284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	P5317	**OrderDate:**	12/17/2024 3:48:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5317-01	**RE114D2-20241216**	**Water**			**12/16/24**			**12/17/24**
			VOCMS Group1	8260-Low			12/19/24	
P5317-02	**RW4-20241216**	**Water**			**12/16/24**			**12/17/24**
			VOCMS Group1	8260-Low			12/19/24	
P5317-02DL	**RW4-20241216DL**	**Water**			**12/16/24**			**12/17/24**
			VOCMS Group1	8260-Low			12/20/24	
P5317-03	**TT191D1-20241216**	**Water**			**12/16/24**			**12/17/24**
			VOCMS Group1	8260-Low			12/20/24	
P5317-04	**TT191D2-20241216**	**Water**			**12/16/24**			**12/17/24**
			VOCMS Group1	8260-Low			12/19/24	
P5317-05	**TT163S1-20241216**	**Water**			**12/16/24**			**12/17/24**
			VOCMS Group1	8260-Low			12/19/24	
P5317-06	**DUP-04-20241216**	**Water**			**12/16/24**			**12/17/24**
			VOCMS Group1	8260-Low			12/23/24	
P5317-07	**RW8-MW01S-20241216**	**Water**			**12/16/24**			**12/17/24**
			VOCMS Group1	8260-Low			12/19/24	
P5317-08	**RW8-MW01D1-20241216**	**Water**			**12/16/24**			**12/17/24**
			VOCMS Group1	8260-Low			12/19/24	
P5317-09	**TT158S1-20241217**	**Water**			**12/17/24**			**12/17/24**
			VOCMS Group1	8260-Low			12/19/24	
P5317-10	**TT158I1-20241217**	**Water**			**12/17/24**			**12/17/24**
			VOCMS Group1	8260-Low			12/19/24	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

P5317-11	**DUP-05-20241217**	**Water**			**12/17/24**		**12/17/24**
			VOCMS Group1	8260-Low		12/23/24	
P5317-12	**TT172S1-20241217**	**Water**			**12/17/24**		**12/17/24**
			VOCMS Group1	8260-Low		12/19/24	
P5317-13	**RW9-MW01S-20241217**	**Water**			**12/17/24**		**12/17/24**
			VOCMS Group1	8260-Low		12/19/24	
P5317-14	**RW9-MW01D1-20241217**	**Water**			**12/17/24**		**12/17/24**
			VOCMS Group1	8260-Low		12/19/24	
P5317-15	**RW9-MW01D2-20241217**	**Water**			**12/17/24**		**12/17/24**
			VOCMS Group1	8260-Low		12/19/24	
P5317-16	**RW9-MW01D3-20241217**	**Water**			**12/17/24**		**12/17/24**
			VOCMS Group1	8260-Low		12/19/24	
P5317-17	**DUP-06-20241217**	**Water**			**12/17/24**		**12/17/24**
			VOCMS Group1	8260-Low		12/23/24	
P5317-18	**RE132D5-20241217**	**Water**			**12/17/24**		**12/17/24**
			VOCMS Group1	8260-Low		12/19/24	
P5317-21	**RE132D6-20241217**	**Water**			**12/17/24**		**12/17/24**
			VOCMS Group1	8260-Low		12/23/24	
P5317-22	**RE132D7-20241217**	**Water**			**12/17/24**		**12/17/24**
			VOCMS Group1	8260-Low		12/23/24	
P5317-23	**TB**	**Water**			**12/17/24**		**12/17/24**
			VOCMS Group1	8260-Low		12/19/24	
P5317-24	**RW8-MW01D2-20241217**	**Water**			**12/17/24**		**12/17/24**
			VOCMS Group1	8260-Low		12/23/24	
P5317-25	**RW8-MW01D3-20241217**	**Water**			**12/17/24**		**12/17/24**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

VOCMS Group1	8260-Low	12/23/24

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**RE114D2-20241216**								
P5317-01	RE114D2-2024121(	Water	Dichlorodifluoromethane	0.62	J	0.21	0.50	1.00	ug/L
P5317-01	RE114D2-2024121(	Water	1,1,2-Trichlorotrifluoroethane	14.1		0.25	0.50	1.00	ug/L
P5317-01	RE114D2-2024121(	Water	1,1-Dichloroethene	0.90	J	0.26	0.75	1.00	ug/L
P5317-01	RE114D2-2024121(	Water	Acetone	1.70	J	1.40	3.80	5.00	ug/L
P5317-01	RE114D2-2024121(	Water	1,1-Dichloroethane	0.62	J	0.23	0.50	1.00	ug/L
P5317-01	RE114D2-2024121(	Water	Carbon Tetrachloride	0.65	J	0.25	0.50	1.00	ug/L
P5317-01	RE114D2-2024121(	Water	cis-1,2-Dichloroethene	1.90		0.25	0.75	1.00	ug/L
P5317-01	RE114D2-2024121(	Water	Chloroform	0.57	J	0.26	0.50	1.00	ug/L
P5317-01	RE114D2-2024121(	Water	Trichloroethene	110		0.32	0.75	1.00	ug/L
P5317-01	RE114D2-2024121(	Water	Toluene	0.29	J	0.18	0.50	1.00	ug/L
P5317-01	RE114D2-2024121(	Water	1,1,2-Trichloroethane	0.42	J	0.21	0.50	1.00	ug/L
P5317-01	RE114D2-2024121(	Water	m/p-Xylenes	0.48	J	0.31	1.00	2.00	ug/L
			Total Voc :	132					
			Total Concentration:	132					
Client ID:	**RW4-20241216**								
P5317-02	RW4-20241216	Water	1,1,2-Trichlorotrifluoroethane	10.3		0.25	0.50	1.00	ug/L
P5317-02	RW4-20241216	Water	1,1-Dichloroethene	1.10		0.26	0.75	1.00	ug/L
P5317-02	RW4-20241216	Water	Acetone	2.30	J	1.40	3.80	5.00	ug/L
P5317-02	RW4-20241216	Water	Methylene Chloride	0.55	J	0.32	0.50	1.00	ug/L
P5317-02	RW4-20241216	Water	cis-1,2-Dichloroethene	1.20		0.25	0.75	1.00	ug/L
P5317-02	RW4-20241216	Water	Chloroform	0.34	J	0.26	0.50	1.00	ug/L
P5317-02	RW4-20241216	Water	Trichloroethene	510	E	0.32	0.75	1.00	ug/L
P5317-02	RW4-20241216	Water	1,1,2-Trichloroethane	0.34	J	0.21	0.50	1.00	ug/L
P5317-02	RW4-20241216	Water	Tetrachloroethene	6.80		0.25	0.50	1.00	ug/L
			Total Voc :	533					
			Total Concentration:	533					
Client ID:	**RW4-20241216DL**								
P5317-02DL	RW4-20241216DL	Water	1,1,2-Trichlorotrifluoroethane	11.9	JD	5.00	10.0	20.0	ug/L
P5317-02DL	RW4-20241216DL	Water	Trichloroethene	580	D	6.40	15.0	20.0	ug/L
P5317-02DL	RW4-20241216DL	Water	Tetrachloroethene	9.60	JD	5.00	10.0	20.0	ug/L
			Total Voc :	602					
			Total Concentration:	602					
Client ID:	**TT191D1-20241216**								
P5317-03	TT191D1-2024121(	Water	Dichlorodifluoromethane	0.81	J	0.21	0.50	1.00	ug/L
P5317-03	TT191D1-2024121(	Water	Chloromethane	0.35	J	0.35	0.50	1.00	ug/L
P5317-03	TT191D1-2024121(	Water	1,1,2-Trichlorotrifluoroethane	2.10		0.25	0.50	1.00	ug/L
P5317-03	TT191D1-2024121(	Water	1,1-Dichloroethene	0.71	J	0.26	0.75	1.00	ug/L

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
P5317-03	TT191D1-2024121(	Water	Methylene Chloride	0.36	J	0.32	0.50	1.00	ug/L
P5317-03	TT191D1-2024121(	Water	Chloroform	0.63	J	0.26	0.50	1.00	ug/L
P5317-03	TT191D1-2024121(	Water	Trichloroethene	11.0		0.32	0.75	1.00	ug/L
			Total Voc :	16.0					
			Total Concentration:	16.0					
Client ID:	**TT191D2-20241216**								
P5317-04	TT191D2-2024121(	Water	Chloromethane	0.77	J	0.35	0.50	1.00	ug/L
P5317-04	TT191D2-2024121(	Water	1,1,2-Trichlorotrifluoroethane	4.80		0.25	0.50	1.00	ug/L
P5317-04	TT191D2-2024121(	Water	1,1-Dichloroethene	1.50		0.26	0.75	1.00	ug/L
P5317-04	TT191D2-2024121(	Water	Acetone	1.50	J	1.40	3.80	5.00	ug/L
P5317-04	TT191D2-2024121(	Water	Methylene Chloride	0.40	J	0.32	0.50	1.00	ug/L
P5317-04	TT191D2-2024121(	Water	Carbon Tetrachloride	0.61	J	0.25	0.50	1.00	ug/L
P5317-04	TT191D2-2024121(	Water	cis-1,2-Dichloroethene	0.72	J	0.25	0.75	1.00	ug/L
P5317-04	TT191D2-2024121(	Water	Chloroform	0.46	J	0.26	0.50	1.00	ug/L
P5317-04	TT191D2-2024121(	Water	Trichloroethene	96.3		0.32	0.75	1.00	ug/L
P5317-04	TT191D2-2024121(	Water	1,1,2-Trichloroethane	0.34	J	0.21	0.50	1.00	ug/L
			Total Voc :	107					
			Total Concentration:	107					
Client ID:	**TT163S1-20241216**								
P5317-05	TT163S1-20241216	Water	Acetone	1.40	J	1.40	3.80	5.00	ug/L
P5317-05	TT163S1-20241216	Water	Methylene Chloride	0.35	J	0.32	0.50	1.00	ug/L
P5317-05	TT163S1-20241216	Water	Carbon Tetrachloride	6.70		0.25	0.50	1.00	ug/L
P5317-05	TT163S1-20241216	Water	Trichloroethene	1.00		0.32	0.75	1.00	ug/L
P5317-05	TT163S1-20241216	Water	t-1,3-Dichloropropene	1.00		0.21	0.50	1.00	ug/L
			Total Voc :	10.4					
			Total Concentration:	10.4					
Client ID:	**DUP-04-20241216**								
P5317-06	DUP-04-20241216	Water	Dichlorodifluoromethane	0.69	J	0.21	0.50	1.00	ug/L
P5317-06	DUP-04-20241216	Water	Chloromethane	0.52	J	0.35	0.50	1.00	ug/L
P5317-06	DUP-04-20241216	Water	1,1,2-Trichlorotrifluoroethane	1.70		0.25	0.50	1.00	ug/L
P5317-06	DUP-04-20241216	Water	1,1-Dichloroethene	0.64	J	0.26	0.75	1.00	ug/L
P5317-06	DUP-04-20241216	Water	cis-1,2-Dichloroethene	0.30	J	0.25	0.75	1.00	ug/L
P5317-06	DUP-04-20241216	Water	Chloroform	0.43	J	0.26	0.50	1.00	ug/L
P5317-06	DUP-04-20241216	Water	Trichloroethene	9.70		0.32	0.75	1.00	ug/L
			Total Voc :	14.0					
			Total Concentration:	14.0					
Client ID:	**RW8-MW01S-20241216**								
P5317-07	RW8-MW01S-2024	Water	Chloromethane	0.62	J	0.35	0.50	1.00	ug/L

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
P5317-07	RW8-MW01S-2024	Water	Acetone	1.60	J	1.40	3.80	5.00	ug/L
P5317-07	RW8-MW01S-2024	Water	Methylene Chloride	0.35	J	0.32	0.50	1.00	ug/L
P5317-07	RW8-MW01S-2024	Water	Carbon Tetrachloride	6.30		0.25	0.50	1.00	ug/L
P5317-07	RW8-MW01S-2024	Water	Trichloroethene	0.62	J	0.32	0.75	1.00	ug/L
			Total Voc :	9.49					
			Total Concentration:	9.49					
Client ID:	**RW8-MW01D1-20241216**								
P5317-08	RW8-MW01D1-20	Water	Carbon Tetrachloride	6.60		0.25	0.50	1.00	ug/L
P5317-08	RW8-MW01D1-20	Water	Trichloroethene	0.34	J	0.32	0.75	1.00	ug/L
			Total Voc :	6.94					
			Total Concentration:	6.94					
Client ID:	**TT158S1-20241217**								
P5317-09	TT158S1-20241217	Water	Methylene Chloride	0.32	J	0.32	0.50	1.00	ug/L
P5317-09	TT158S1-20241217	Water	1,1-Dichloroethane	1.80		0.23	0.50	1.00	ug/L
P5317-09	TT158S1-20241217	Water	Carbon Tetrachloride	6.50		0.25	0.50	1.00	ug/L
P5317-09	TT158S1-20241217	Water	Trichloroethene	0.32	J	0.32	0.75	1.00	ug/L
			Total Voc :	8.94					
			Total Concentration:	8.94					
Client ID:	**TT158I1-20241217**								
P5317-10	TT158I1-20241217	Water	Methyl tert-butyl Ether	0.24	J	0.16	0.50	1.00	ug/L
P5317-10	TT158I1-20241217	Water	Methylene Chloride	0.34	J	0.32	0.50	1.00	ug/L
P5317-10	TT158I1-20241217	Water	Carbon Tetrachloride	6.30		0.25	0.50	1.00	ug/L
P5317-10	TT158I1-20241217	Water	Dibromochloromethane	1.40		0.18	0.50	1.00	ug/L
			Total Voc :	8.28					
			Total Concentration:	8.28					
Client ID:	**DUP-05-20241217**								
P5317-11	DUP-05-20241217	Water	1,1-Dichloroethane	1.20		0.23	0.50	1.00	ug/L
P5317-11	DUP-05-20241217	Water	Trichloroethene	0.32	J	0.32	0.75	1.00	ug/L
			Total Voc :	1.52					
			Total Concentration:	1.52					
Client ID:	**TT172S1-20241217**								
P5317-12	TT172S1-20241217	Water	1,1,2-Trichlorotrifluoroethane	1.30		0.25	0.50	1.00	ug/L
P5317-12	TT172S1-20241217	Water	Acetone	1.50	J	1.40	3.80	5.00	ug/L
P5317-12	TT172S1-20241217	Water	Methyl tert-butyl Ether	0.25	J	0.16	0.50	1.00	ug/L
P5317-12	TT172S1-20241217	Water	1,1-Dichloroethane	0.40	J	0.23	0.50	1.00	ug/L
P5317-12	TT172S1-20241217	Water	Cyclohexane	1.60	J	1.60	2.50	5.00	ug/L
P5317-12	TT172S1-20241217	Water	Carbon Tetrachloride	6.40		0.25	0.50	1.00	ug/L
P5317-12	TT172S1-20241217	Water	Chloroform	0.51	J	0.26	0.50	1.00	ug/L
P5317-12	TT172S1-20241217	Water	Methylcyclohexane	0.33	J	0.19	0.50	1.00	ug/L

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
P5317-12	TT172S1-20241217	Water	Trichloroethene	39.5		0.32	0.75	1.00	ug/L
P5317-12	TT172S1-20241217	Water	Dibromochloromethane	2.70		0.18	0.50	1.00	ug/L
P5317-12	TT172S1-20241217	Water	Tetrachloroethene	1.90		0.25	0.50	1.00	ug/L
			Total Voc :	56.4					
			Total Concentration:	56.4					
Client ID:	**RW9-MW01S-20241217**								
P5317-13	RW9-MW01S-2024	Water	Chloromethane	0.81	J	0.35	0.50	1.00	ug/L
P5317-13	RW9-MW01S-2024	Water	Acetone	1.60	J	1.40	3.80	5.00	ug/L
P5317-13	RW9-MW01S-2024	Water	Carbon Tetrachloride	6.30		0.25	0.50	1.00	ug/L
P5317-13	RW9-MW01S-2024	Water	Trichloroethene	0.32	J	0.32	0.75	1.00	ug/L
P5317-13	RW9-MW01S-2024	Water	Dibromochloromethane	1.30		0.18	0.50	1.00	ug/L
			Total Voc :	10.3					
			Total Concentration:	10.3					
Client ID:	**RW9-MW01D1-20241217**								
P5317-14	RW9-MW01D1-202	Water	Carbon Tetrachloride	6.20		0.25	0.50	1.00	ug/L
			Total Voc :	6.20					
			Total Concentration:	6.20					
Client ID:	**RE132D5-20241217**								
P5317-18	RE132D5-2024121	Water	Dichlorodifluoromethane	1.20		0.21	0.50	1.00	ug/L
P5317-18	RE132D5-2024121	Water	Chloromethane	0.70	J	0.35	0.50	1.00	ug/L
P5317-18	RE132D5-2024121	Water	1,1,2-Trichlorotrifluoroethane	9.40		0.25	0.50	1.00	ug/L
P5317-18	RE132D5-2024121	Water	1,1-Dichloroethene	2.60		0.26	0.75	1.00	ug/L
P5317-18	RE132D5-2024121	Water	Acetone	1.40	J	1.40	3.80	5.00	ug/L
P5317-18	RE132D5-2024121	Water	cis-1,2-Dichloroethene	1.60		0.25	0.75	1.00	ug/L
P5317-18	RE132D5-2024121	Water	Chloroform	1.20		0.26	0.50	1.00	ug/L
P5317-18	RE132D5-2024121	Water	Trichloroethene	150	E	0.32	0.75	1.00	ug/L
P5317-18	RE132D5-2024121	Water	1,1,2-Trichloroethane	0.45	J	0.21	0.50	1.00	ug/L
			Total Voc :	169					
			Total Concentration:	169					
Client ID:	**RE132D6-20241217**								
P5317-21	RE132D6-2024121	Water	1,1,2-Trichlorotrifluoroethane	26.6	J	10.0	20.0	40.0	ug/L
P5317-21	RE132D6-2024121	Water	1,1-Dichloroethene	15.5	J	10.4	30.0	40.0	ug/L
P5317-21	RE132D6-2024121	Water	Carbon Disulfide	16.8	J	12.8	30.0	40.0	ug/L
P5317-21	RE132D6-2024121	Water	Trichloroethene	1600		12.8	30.0	40.0	ug/L
P5317-21	RE132D6-2024121	Water	Tetrachloroethene	11.6	JQ	10.0	20.0	40.0	ug/L
P5317-21	RE132D6-2024121	Water	1,4-Dichlorobenzene	13.2	J	10.8	20.0	40.0	ug/L
			Total Voc :	1680					
			Total Concentration:	1680					
Client ID:	**RE132D7-20241217**								

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
P5317-22	RE132D7-2024121	Water	1,1,2-Trichlorotrifluoroethane	17.4	J	10.0	20.0	40.0	ug/L
P5317-22	RE132D7-2024121	Water	Trichloroethene	1100		12.8	30.0	40.0	ug/L
			Total Voc :	1120					
			Total Concentration:	1120					
Client ID:	**TB**								
P5317-23	TB	Water	Chloromethane	0.37	J	0.35	0.50	1.00	ug/L
P5317-23	TB	Water	Methylene Chloride	0.32	J	0.32	0.50	1.00	ug/L
			Total Voc :	0.69					
			Total Concentration:	0.69					

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P5317-01	RE114D2-20241216	1,2-Dichloroethane-d4	50	44.7	89	81	118
		Dibromofluoromethane	50	47.9	96	80	119
		Toluene-d8	50	53.1	106	89	112
		4-Bromofluorobenzene	50	48.7	97	85	114
P5317-02	RW4-20241216	1,2-Dichloroethane-d4	50	46.4	93	81	118
		Dibromofluoromethane	50	47.6	95	80	119
		Toluene-d8	50	51.2	102	89	112
		4-Bromofluorobenzene	50	46.5	93	85	114
P5317-02DL	RW4-20241216DL	1,2-Dichloroethane-d4	50	42.7	85	81	118
		Dibromofluoromethane	50	47.4	95	80	119
		Toluene-d8	50	50.5	101	89	112
		4-Bromofluorobenzene	50	47.8	96	85	114
P5317-03	TT191D1-20241216	1,2-Dichloroethane-d4	50	42.4	85	81	118
		Dibromofluoromethane	50	47.2	94	80	119
		Toluene-d8	50	50.5	101	89	112
		4-Bromofluorobenzene	50	45.9	92	85	114
P5317-04	TT191D2-20241216	1,2-Dichloroethane-d4	50	44.5	89	81	118
		Dibromofluoromethane	50	47.4	95	80	119
		Toluene-d8	50	51.5	103	89	112
		4-Bromofluorobenzene	50	48.0	96	85	114
P5317-05	TT163S1-20241216	1,2-Dichloroethane-d4	50	45.0	90	81	118
		Dibromofluoromethane	50	48.1	96	80	119
		Toluene-d8	50	52.9	106	89	112
		4-Bromofluorobenzene	50	46.8	94	85	114
P5317-06	DUP-04-20241216	1,2-Dichloroethane-d4	50	42.8	86	81	118
		Dibromofluoromethane	50	48.7	97	80	119
		Toluene-d8	50	52.6	105	89	112
		4-Bromofluorobenzene	50	48.4	97	85	114
P5317-07	RW8-MW01S-20241216	1,2-Dichloroethane-d4	50	45.5	91	81	118
		Dibromofluoromethane	50	46.9	94	80	119
		Toluene-d8	50	52.0	104	89	112
		4-Bromofluorobenzene	50	46.3	93	85	114
P5317-08	RW8-MW01D1-20241216	1,2-Dichloroethane-d4	50	45.0	90	81	118
		Dibromofluoromethane	50	46.3	93	80	119
		Toluene-d8	50	51.2	102	89	112
		4-Bromofluorobenzene	50	45.9	92	85	114
P5317-09	TT158S1-20241217	1,2-Dichloroethane-d4	50	45.4	91	81	118
		Dibromofluoromethane	50	47.3	95	80	119
		Toluene-d8	50	51.6	103	89	112
		4-Bromofluorobenzene	50	44.6	89	85	114
P5317-10	TT158I1-20241217	1,2-Dichloroethane-d4	50	44.2	88	81	118
		Dibromofluoromethane	50	47.8	95	80	119
		Toluene-d8	50	51.1	102	89	112
		4-Bromofluorobenzene	50	45.6	91	85	114
P5317-11	DUP-05-20241217	1,2-Dichloroethane-d4	50	44.9	90	81	118
		Dibromofluoromethane	50	49.6	99	80	119
		Toluene-d8	50	55.6	111	89	112
		4-Bromofluorobenzene	50	53.1	106	85	114
P5317-12	TT172S1-20241217	1,2-Dichloroethane-d4	50	45.5	91	81	118
		Dibromofluoromethane	50	47.9	96	80	119

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P5317-12	TT172S1-20241217	Toluene-d8	50	52.6	105	89	112
		4-Bromofluorobenzene	50	47.8	96	85	114
P5317-13	RW9-MW01S-20241217	1,2-Dichloroethane-d4	50	46.3	93	81	118
		Dibromofluoromethane	50	46.9	94	80	119
		Toluene-d8	50	51.4	103	89	112
		4-Bromofluorobenzene	50	47.9	96	85	114
P5317-14	RW9-MW01D1-20241217	1,2-Dichloroethane-d4	50	46.1	92	81	118
		Dibromofluoromethane	50	47.3	95	80	119
		Toluene-d8	50	51.7	103	89	112
		4-Bromofluorobenzene	50	46.3	93	85	114
P5317-15	RW9-MW01D2-20241217	1,2-Dichloroethane-d4	50	45.7	91	81	118
		Dibromofluoromethane	50	48.0	96	80	119
		Toluene-d8	50	51.0	102	89	112
		4-Bromofluorobenzene	50	45.0	90	85	114
P5317-16	RW9-MW01D3-20241217	1,2-Dichloroethane-d4	50	45.4	91	81	118
		Dibromofluoromethane	50	47.5	95	80	119
		Toluene-d8	50	51.6	103	89	112
		4-Bromofluorobenzene	50	44.8	90	85	114
P5317-17	DUP-06-20241217	1,2-Dichloroethane-d4	50	44.3	89	81	118
		Dibromofluoromethane	50	50.2	100	80	119
		Toluene-d8	50	54.4	109	89	112
		4-Bromofluorobenzene	50	50.2	100	85	114
P5317-18	RE132D5-20241217	1,2-Dichloroethane-d4	50	45.4	91	81	118
		Dibromofluoromethane	50	48.4	97	80	119
		Toluene-d8	50	52.1	104	89	112
		4-Bromofluorobenzene	50	48.4	97	85	114
P5317-19MS	RE132D5-20241217MS	1,2-Dichloroethane-d4	50	50.1	100	81	118
		Dibromofluoromethane	50	54.5	109	80	119
		Toluene-d8	50	55.2	110	89	112
		4-Bromofluorobenzene	50	54.8	110	85	114
P5317-20MSD	RE132D5-20241217MSD	1,2-Dichloroethane-d4	50	49.1	98	81	118
		Dibromofluoromethane	50	52.6	105	80	119
		Toluene-d8	50	52.5	105	89	112
		4-Bromofluorobenzene	50	53.4	107	85	114
P5317-21	RE132D6-20241217	1,2-Dichloroethane-d4	50	41.4	83	81	118
		Dibromofluoromethane	50	47.8	96	80	119
		Toluene-d8	50	53.3	107	89	112
		4-Bromofluorobenzene	50	50.2	100	85	114
P5317-22	RE132D7-20241217	1,2-Dichloroethane-d4	50	42.0	84	81	118
		Dibromofluoromethane	50	50.2	100	80	119
		Toluene-d8	50	53.0	106	89	112
		4-Bromofluorobenzene	50	51.7	103	85	114
P5317-23	TB	1,2-Dichloroethane-d4	50	44.5	89	81	118
		Dibromofluoromethane	50	46.5	93	80	119
		Toluene-d8	50	51.5	103	89	112
		4-Bromofluorobenzene	50	46.2	92	85	114
P5317-24	RW8-MW01D2-20241217	1,2-Dichloroethane-d4	50	43.5	87	81	118
		Dibromofluoromethane	50	49.9	100	80	119
		Toluene-d8	50	54.4	109	89	112
		4-Bromofluorobenzene	50	51.5	103	85	114

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P5317-25	RW8-MW01D3-20241217	1,2-Dichloroethane-d4	50	43.5	87	81	118
		Dibromofluoromethane	50	49.2	98	80	119
		Toluene-d8	50	54.8	110	89	112
		4-Bromofluorobenzene	50	50.8	102	85	114
VX1218WBL02	VX1218WBL02	1,2-Dichloroethane-d4	50	43.6	87	81	118
		Dibromofluoromethane	50	48.3	97	80	119
		Toluene-d8	50	51.9	104	89	112
		4-Bromofluorobenzene	50	48.2	96	85	114
VX1218WBS02	VX1218WBS02	1,2-Dichloroethane-d4	50	50.5	101	81	118
		Dibromofluoromethane	50	52.7	105	80	119
		Toluene-d8	50	50.9	102	89	112
		4-Bromofluorobenzene	50	48.5	97	85	114
VX1220WBL01	VX1220WBL01	1,2-Dichloroethane-d4	50	44.1	88	81	118
		Dibromofluoromethane	50	47.5	95	80	119
		Toluene-d8	50	52.0	104	89	112
		4-Bromofluorobenzene	50	48.4	97	85	114
VX1220WBS01	VX1220WBS01	1,2-Dichloroethane-d4	50	42.7	85	81	118
		Dibromofluoromethane	50	48.5	97	80	119
		Toluene-d8	50	48.7	97	89	112
		4-Bromofluorobenzene	50	46.4	93	85	114
VX1223WBL01	VX1223WBL01	1,2-Dichloroethane-d4	50	41.8	84	81	118
		Dibromofluoromethane	50	46.7	93	80	119
		Toluene-d8	50	51.2	102	89	112
		4-Bromofluorobenzene	50	45.8	92	85	114
VX1223WBS01	VX1223WBS01	1,2-Dichloroethane-d4	50	44.0	88	81	118
		Dibromofluoromethane	50	54.2	108	80	119
		Toluene-d8	50	56.2	112	89	112
		4-Bromofluorobenzene	50	53.5	107	85	114

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : P5317-19MS		**Client Sample ID : RE132D5-20241217MS**						**Datafile :** VX044417.D			
Dichlorodifluoromethane	50	1.20	54.6	ug/L	107				32	152	
Chloromethane	50	0.70	56.4	ug/L	111				50	139	
Vinyl chloride	50	0	54.0	ug/L	108				58	137	
Bromomethane	50	0	50.1	ug/L	100				53	141	
Chloroethane	50	0	55.8	ug/L	112				60	138	
Trichlorofluoromethane	50	0	44.0	ug/L	88				65	141	
1,1,2-Trichlorotrifluoroethane	50	9.40	58.1	ug/L	97				70	136	
1,1-Dichloroethene	50	2.60	56.9	ug/L	109				71	131	
Acetone	250	1.40	230	ug/L	91				39	160	
Carbon disulfide	50	0	52.7	ug/L	105				64	133	
Methyl tert-butyl Ether	50	0	49.7	ug/L	99				71	124	
Methyl Acetate	50	0	42.6	ug/L	85				56	136	
Methylene Chloride	50	0	53.3	ug/L	107				74	124	
trans-1,2-Dichloroethene	50	0	53.6	ug/L	107				75	124	
1,1-Dichloroethane	50	0	53.4	ug/L	107				77	125	
Cyclohexane	50	0	51.2	ug/L	102				71	130	
2-Butanone	250	0	250	ug/L	100				56	143	
Carbon Tetrachloride	50	0	51.8	ug/L	104				72	136	
cis-1,2-Dichloroethene	50	1.60	52.6	ug/L	102				78	123	
Bromochloromethane	50	0	50.6	ug/L	101				78	123	
Chloroform	50	1.20	51.3	ug/L	100				79	124	
1,1,1-Trichloroethane	50	0	51.2	ug/L	102				74	131	
Methylcyclohexane	50	0	52.6	ug/L	105				72	132	
Benzene	50	0	55.3	ug/L	111				79	120	
1,2-Dichloroethane	50	0	52.0	ug/L	104				73	128	
Trichloroethene	50	150	190	ug/L	80				79	123	
1,2-Dichloropropane	50	0	52.2	ug/L	104				78	122	
Bromodichloromethane	50	0	54.3	ug/L	109				79	125	
4-Methyl-2-Pentanone	250	0	260	ug/L	104				67	130	
Toluene	50	0	53.4	ug/L	107				80	121	
t-1,3-Dichloropropene	50	0	45.6	ug/L	91				73	127	
cis-1,3-Dichloropropene	50	0	50.1	ug/L	100				75	124	
1,1,2-Trichloroethane	50	0.45	55.0	ug/L	109				80	119	
2-Hexanone	250	0	270	ug/L	108				57	139	
Dibromochloromethane	50	0	50.2	ug/L	100				74	126	
1,2-Dibromoethane	50	0	54.6	ug/L	109				77	121	
Tetrachloroethene	50	0	51.0	ug/L	102				74	129	
Chlorobenzene	50	0	52.1	ug/L	104				82	118	
Ethyl Benzene	50	0	51.7	ug/L	103				79	121	
m/p-Xylenes	100	0	110	ug/L	110				80	121	
o-Xylene	50	0	53.1	ug/L	106				78	122	
Styrene	50	0	54.6	ug/L	109				78	123	
Bromoform	50	0	50.4	ug/L	101				66	130	
Isopropylbenzene	50	0	51.8	ug/L	104				72	131	
1,1,2,2-Tetrachloroethane	50	0	50.8	ug/L	102				71	121	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	50	0	52.3	ug/L	105				80	119	
1,4-Dichlorobenzene	50	0	50.9	ug/L	102				79	118	
1,2-Dichlorobenzene	50	0	50.9	ug/L	102				80	119	
1,2-Dibromo-3-Chloropropane	50	0	47.3	ug/L	95				62	128	
1,2,4-Trichlorobenzene	50	0	52.1	ug/L	104				69	130	
1,2,3-Trichlorobenzene	50	0	50.4	ug/L	101				69	129	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : P5317-20MSD		**Client Sample ID : RE132D5-20241217MSD**						**Datafile :** VX044418.D			
Dichlorodifluoromethane	50	1.20	52.5	ug/L	103		4		32	152	20
Chloromethane	50	0.70	52.8	ug/L	104		7		50	139	20
Vinyl chloride	50	0	52.7	ug/L	105		2		58	137	20
Bromomethane	50	0	51.1	ug/L	102		2		53	141	20
Chloroethane	50	0	50.0	ug/L	100		11		60	138	20
Trichlorofluoromethane	50	0	46.5	ug/L	93		6		65	141	20
1,1,2-Trichlorotrifluoroethane	50	9.40	57.5	ug/L	96		1		70	136	20
1,1-Dichloroethene	50	2.60	57.1	ug/L	109		0		71	131	20
Acetone	250	1.40	230	ug/L	91		0		39	160	20
Carbon disulfide	50	0	54.9	ug/L	110		4		64	133	20
Methyl tert-butyl Ether	50	0	50.3	ug/L	101		1		71	124	20
Methyl Acetate	50	0	42.4	ug/L	85		0		56	136	20
Methylene Chloride	50	0	52.3	ug/L	105		2		74	124	20
trans-1,2-Dichloroethene	50	0	54.5	ug/L	109		2		75	124	20
1,1-Dichloroethane	50	0	53.6	ug/L	107		0		77	125	20
Cyclohexane	50	0	51.8	ug/L	104		1		71	130	20
2-Butanone	250	0	250	ug/L	100		0		56	143	20
Carbon Tetrachloride	50	0	52.3	ug/L	105		1		72	136	20
cis-1,2-Dichloroethene	50	1.60	53.6	ug/L	104		2		78	123	20
Bromochloromethane	50	0	48.3	ug/L	97		5		78	123	20
Chloroform	50	1.20	51.3	ug/L	100		0		79	124	20
1,1,1-Trichloroethane	50	0	51.5	ug/L	103		1		74	131	20
Methylcyclohexane	50	0	49.2	ug/L	98		7		72	132	20
Benzene	50	0	53.4	ug/L	107		3		79	120	20
1,2-Dichloroethane	50	0	50.5	ug/L	101		3		73	128	20
Trichloroethene	50	150	190	ug/L	80		0		79	123	20
1,2-Dichloropropane	50	0	51.7	ug/L	103		1		78	122	20
Bromodichloromethane	50	0	53.9	ug/L	108		1		79	125	20
4-Methyl-2-Pentanone	250	0	260	ug/L	104		0		67	130	20
Toluene	50	0	52.9	ug/L	106		1		80	121	20
t-1,3-Dichloropropene	50	0	46.0	ug/L	92		1		73	127	20
cis-1,3-Dichloropropene	50	0	49.9	ug/L	100		0		75	124	20
1,1,2-Trichloroethane	50	0.45	54.8	ug/L	109		0		80	119	20
2-Hexanone	250	0	260	ug/L	104		4		57	139	20
Dibromochloromethane	50	0	50.9	ug/L	102		1		74	126	20
1,2-Dibromoethane	50	0	54.7	ug/L	109		0		77	121	20
Tetrachloroethene	50	0	49.8	ug/L	100		2		74	129	20
Chlorobenzene	50	0	51.2	ug/L	102		2		82	118	20
Ethyl Benzene	50	0	51.4	ug/L	103		1		79	121	20
m/p-Xylenes	100	0	110	ug/L	110		0		80	121	20
o-Xylene	50	0	52.4	ug/L	105		1		78	122	20
Styrene	50	0	54.0	ug/L	108		1		78	123	20
Bromoform	50	0	50.9	ug/L	102		1		66	130	20
Isopropylbenzene	50	0	50.3	ug/L	101		3		72	131	20
1,1,2,2-Tetrachloroethane	50	0	50.9	ug/L	102		0		71	121	20

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	50	0	51.9	ug/L	104		1		80	119	20
1,4-Dichlorobenzene	50	0	50.9	ug/L	102		0		79	118	20
1,2-Dichlorobenzene	50	0	50.8	ug/L	102		0		80	119	20
1,2-Dibromo-3-Chloropropane	50	0	49.7	ug/L	99		5		62	128	20
1,2,4-Trichlorobenzene	50	0	51.6	ug/L	103		1		69	130	20
1,2,3-Trichlorobenzene	50	0	52.1	ug/L	104		3		69	129	20

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044399.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1218WBS02	Dichlorodifluoromethane	20	19.0	ug/L	95			32	152	
	Chloromethane	20	21.4	ug/L	107			50	139	
	Vinyl chloride	20	20.6	ug/L	103			58	137	
	Bromomethane	20	20.5	ug/L	103			53	141	
	Chloroethane	20	24.3	ug/L	121			60	138	
	Trichlorofluoromethane	20	15.9	ug/L	79			65	141	
	1,1,2-Trichlorotrifluoroethane	20	17.9	ug/L	90			70	136	
	1,1-Dichloroethene	20	20.1	ug/L	101			71	131	
	Acetone	100	94.1	ug/L	94			39	160	
	Carbon disulfide	20	18.8	ug/L	94			64	133	
	Methyl tert-butyl Ether	20	20.4	ug/L	102			71	124	
	Methyl Acetate	20	21.3	ug/L	106			56	136	
	Methylene Chloride	20	21.2	ug/L	106			74	124	
	trans-1,2-Dichloroethene	20	19.8	ug/L	99			75	124	
	1,1-Dichloroethane	20	21.4	ug/L	107			77	125	
	Cyclohexane	20	17.8	ug/L	89			71	130	
	2-Butanone	100	100	ug/L	100			56	143	
	Carbon Tetrachloride	20	18.4	ug/L	92			72	136	
	cis-1,2-Dichloroethene	20	20.4	ug/L	102			78	123	
	Bromochloromethane	20	20.8	ug/L	104			78	123	
	Chloroform	20	20.3	ug/L	102			79	124	
	1,1,1-Trichloroethane	20	19.5	ug/L	98			74	131	
	Methylcyclohexane	20	17.7	ug/L	89			72	132	
	Benzene	20	20.8	ug/L	104			79	120	
	1,2-Dichloroethane	20	20.6	ug/L	103			73	128	
	Trichloroethene	20	19.9	ug/L	100			79	123	
	1,2-Dichloropropane	20	20.7	ug/L	104			78	122	
	Bromodichloromethane	20	20.7	ug/L	104			79	125	
	4-Methyl-2-Pentanone	100	110	ug/L	110			67	130	
	Toluene	20	20.0	ug/L	100			80	121	
	t-1,3-Dichloropropene	20	19.1	ug/L	96			73	127	
	cis-1,3-Dichloropropene	20	19.3	ug/L	97			75	124	
	1,1,2-Trichloroethane	20	21.6	ug/L	108			80	119	
	2-Hexanone	100	110	ug/L	110			57	139	
	Dibromochloromethane	20	19.4	ug/L	97			74	126	
	1,2-Dibromoethane	20	21.7	ug/L	109			77	121	
	Tetrachloroethene	20	18.9	ug/L	95			74	129	
	Chlorobenzene	20	19.1	ug/L	96			82	118	
	Ethyl Benzene	20	18.8	ug/L	94			79	121	
	m/p-Xylenes	40	38.0	ug/L	95			80	121	
	o-Xylene	20	19.1	ug/L	96			78	122	
	Styrene	20	19.7	ug/L	99			78	123	
	Bromoform	20	20.0	ug/L	100			66	130	
	Isopropylbenzene	20	19.9	ug/L	100			72	131	
	1,1,2,2-Tetrachloroethane	20	22.0	ug/L	110			71	121	
	1,3-Dichlorobenzene	20	19.8	ug/L	99			80	119	
	1,4-Dichlorobenzene	20	19.6	ug/L	98			79	118	
	1,2-Dichlorobenzene	20	20.1	ug/L	101			80	119	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044399.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1218WBS02	1,2-Dibromo-3-Chloropropane	20	18.9	ug/L	95			62	128	
	1,2,4-Trichlorobenzene	20	18.7	ug/L	94			69	130	
	1,2,3-Trichlorobenzene	20	19.8	ug/L	99			69	129	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044441.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1220WBS01	Dichlorodifluoromethane	20	18.5	ug/L	93			32	152	
	Chloromethane	20	18.7	ug/L	94			50	139	
	Vinyl chloride	20	17.9	ug/L	90			58	137	
	Bromomethane	20	18.8	ug/L	94			53	141	
	Chloroethane	20	19.8	ug/L	99			60	138	
	Trichlorofluoromethane	20	15.3	ug/L	77			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/L	93			70	136	
	1,1-Dichloroethene	20	18.9	ug/L	95			71	131	
	Acetone	100	75.7	ug/L	76			39	160	
	Carbon disulfide	20	16.4	ug/L	82			64	133	
	Methyl tert-butyl Ether	20	17.6	ug/L	88			71	124	
	Methyl Acetate	20	17.7	ug/L	89			56	136	
	Methylene Chloride	20	19.1	ug/L	96			74	124	
	trans-1,2-Dichloroethene	20	18.7	ug/L	94			75	124	
	1,1-Dichloroethane	20	18.9	ug/L	95			77	125	
	Cyclohexane	20	17.6	ug/L	88			71	130	
	2-Butanone	100	83.3	ug/L	83			56	143	
	Carbon Tetrachloride	20	18.9	ug/L	95			72	136	
	cis-1,2-Dichloroethene	20	18.0	ug/L	90			78	123	
	Bromochloromethane	20	15.8	ug/L	79			78	123	
	Chloroform	20	17.7	ug/L	89			79	124	
	1,1,1-Trichloroethane	20	17.5	ug/L	88			74	131	
	Methylcyclohexane	20	19.3	ug/L	97			72	132	
	Benzene	20	20.4	ug/L	102			79	120	
	1,2-Dichloroethane	20	19.2	ug/L	96			73	128	
	Trichloroethene	20	19.9	ug/L	100			79	123	
	1,2-Dichloropropane	20	19.1	ug/L	96			78	122	
	Bromodichloromethane	20	19.1	ug/L	96			79	125	
	4-Methyl-2-Pentanone	100	92.4	ug/L	92			67	130	
	Toluene	20	19.5	ug/L	98			80	121	
	t-1,3-Dichloropropene	20	17.9	ug/L	90			73	127	
	cis-1,3-Dichloropropene	20	19.2	ug/L	96			75	124	
	1,1,2-Trichloroethane	20	20.8	ug/L	104			80	119	
	2-Hexanone	100	90.4	ug/L	90			57	139	
	Dibromochloromethane	20	18.8	ug/L	94			74	126	
	1,2-Dibromoethane	20	20.2	ug/L	101			77	121	
	Tetrachloroethene	20	20.8	ug/L	104			74	129	
	Chlorobenzene	20	19.9	ug/L	100			82	118	
	Ethyl Benzene	20	19.2	ug/L	96			79	121	
	m/p-Xylenes	40	39.8	ug/L	100			80	121	
	o-Xylene	20	19.8	ug/L	99			78	122	
	Styrene	20	19.8	ug/L	99			78	123	
	Bromoform	20	19.3	ug/L	97			66	130	
	Isopropylbenzene	20	19.9	ug/L	100			72	131	
	1,1,2,2-Tetrachloroethane	20	19.6	ug/L	98			71	121	
	1,3-Dichlorobenzene	20	20.1	ug/L	101			80	119	
	1,4-Dichlorobenzene	20	20.0	ug/L	100			79	118	
	1,2-Dichlorobenzene	20	19.8	ug/L	99			80	119	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044441.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1220WBS01	1,2-Dibromo-3-Chloropropane	20	16.5	ug/L	83			62	128	
	1,2,4-Trichlorobenzene	20	19.5	ug/L	98			69	130	
	1,2,3-Trichlorobenzene	20	19.4	ug/L	97			69	129	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044469.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1223WBS01	Dichlorodifluoromethane	20	21.6	ug/L	108			32	152	
	Chloromethane	20	19.6	ug/L	98			50	139	
	Vinyl chloride	20	18.3	ug/L	92			58	137	
	Bromomethane	20	18.3	ug/L	92			53	141	
	Chloroethane	20	17.0	ug/L	85			60	138	
	Trichlorofluoromethane	20	18.0	ug/L	90			65	141	
	1,1,2-Trichlorotrifluoroethane	20	21.8	ug/L	109			70	136	
	1,1-Dichloroethene	20	20.8	ug/L	104			71	131	
	Acetone	100	93.4	ug/L	93			39	160	
	Carbon disulfide	20	17.0	ug/L	85			64	133	
	Methyl tert-butyl Ether	20	17.8	ug/L	89			71	124	
	Methyl Acetate	20	18.3	ug/L	92			56	136	
	Methylene Chloride	20	18.6	ug/L	93			74	124	
	trans-1,2-Dichloroethene	20	19.4	ug/L	97			75	124	
	1,1-Dichloroethane	20	19.0	ug/L	95			77	125	
	Cyclohexane	20	21.1	ug/L	106			71	130	
	2-Butanone	100	88.4	ug/L	88			56	143	
	Carbon Tetrachloride	20	22.2	ug/L	111			72	136	
	cis-1,2-Dichloroethene	20	18.5	ug/L	93			78	123	
	Bromochloromethane	20	13.5	ug/L	68		*	78	123	
	Chloroform	20	18.2	ug/L	91			79	124	
	1,1,1-Trichloroethane	20	19.8	ug/L	99			74	131	
	Methylcyclohexane	20	25.3	ug/L	127			72	132	
	Benzene	20	23.2	ug/L	116			79	120	
	1,2-Dichloroethane	20	21.6	ug/L	108			73	128	
	Trichloroethene	20	23.9	ug/L	119			79	123	
	1,2-Dichloropropane	20	21.8	ug/L	109			78	122	
	Bromodichloromethane	20	21.2	ug/L	106			79	125	
	4-Methyl-2-Pentanone	100	97.5	ug/L	98			67	130	
	Toluene	20	22.1	ug/L	111			80	121	
	t-1,3-Dichloropropene	20	19.7	ug/L	99			73	127	
	cis-1,3-Dichloropropene	20	21.2	ug/L	106			75	124	
	1,1,2-Trichloroethane	20	22.6	ug/L	113			80	119	
	2-Hexanone	100	97.6	ug/L	98			57	139	
	Dibromochloromethane	20	19.6	ug/L	98			74	126	
	1,2-Dibromoethane	20	21.9	ug/L	110			77	121	
	Tetrachloroethene	20	26.5	ug/L	133		*	74	129	
	Chlorobenzene	20	22.9	ug/L	115			82	118	
	Ethyl Benzene	20	21.9	ug/L	110			79	121	
	m/p-Xylenes	40	45.9	ug/L	115			80	121	
	o-Xylene	20	22.8	ug/L	114			78	122	
	Styrene	20	22.0	ug/L	110			78	123	
	Bromoform	20	21.6	ug/L	108			66	130	
	Isopropylbenzene	20	23.0	ug/L	115			72	131	
	1,1,2,2-Tetrachloroethane	20	22.3	ug/L	112			71	121	
	1,3-Dichlorobenzene	20	23.5	ug/L	117			80	119	
	1,4-Dichlorobenzene	20	22.7	ug/L	114			79	118	
	1,2-Dichlorobenzene	20	23.1	ug/L	116			80	119	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5317

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044469.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1223WBS01	1,2-Dibromo-3-Chloropropane	20	17.9	ug/L	90			62	128	
	1,2,4-Trichlorobenzene	20	24.2	ug/L	121			69	130	
	1,2,3-Trichlorobenzene	20	23.0	ug/L	115			69	129	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1218WBL02

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044398.D Lab Sample ID: VX1218WBL02

Date Analyzed: 12/18/2024 Time Analyzed: 22:59

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1218WBS02	VX1218WBS02	VX044399.D	12/18/2024
RE114D2-20241216	P5317-01	VX044401.D	12/19/2024
RW4-20241216	P5317-02	VX044402.D	12/19/2024
TT191D2-20241216	P5317-04	VX044404.D	12/19/2024
TT163S1-20241216	P5317-05	VX044405.D	12/19/2024
RW8-MW01S-20241216	P5317-07	VX044406.D	12/19/2024
RW8-MW01D1-20241216	P5317-08	VX044407.D	12/19/2024
TT158S1-20241217	P5317-09	VX044408.D	12/19/2024
TT158I1-20241217	P5317-10	VX044409.D	12/19/2024
TT172S1-20241217	P5317-12	VX044410.D	12/19/2024
RW9-MW01S-20241217	P5317-13	VX044411.D	12/19/2024
RW9-MW01D1-20241217	P5317-14	VX044412.D	12/19/2024
RW9-MW01D2-20241217	P5317-15	VX044413.D	12/19/2024
RW9-MW01D3-20241217	P5317-16	VX044414.D	12/19/2024
TB	P5317-23	VX044415.D	12/19/2024
RE132D5-20241217	P5317-18	VX044416.D	12/19/2024
RE132D5-20241217MS	P5317-19MS	VX044417.D	12/19/2024
RE132D5-20241217MSD	P5317-20MSD	VX044418.D	12/19/2024

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1220WBL01

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044440.D Lab Sample ID: VX1220WBL01

Date Analyzed: 12/20/2024 Time Analyzed: 10:23

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1220WBS01	VX1220WBS01	VX044441.D	12/20/2024
RW4-20241216DL	P5317-02DL	VX044450.D	12/20/2024
TT191D1-20241216	P5317-03	VX044452.D	12/20/2024

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1223WBL01

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044468.D Lab Sample ID: VX1223WBL01

Date Analyzed: 12/23/2024 Time Analyzed: 09:46

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1223WBS01	VX1223WBS01	VX044469.D	12/23/2024
RE132D6-20241217	P5317-21	VX044485.D	12/23/2024
RE132D7-20241217	P5317-22	VX044486.D	12/23/2024
DUP-04-20241216	P5317-06	VX044487.D	12/23/2024
DUP-05-20241217	P5317-11	VX044488.D	12/23/2024
DUP-06-20241217	P5317-17	VX044489.D	12/23/2024
RW8-MW01D2-20241217	P5317-24	VX044490.D	12/23/2024
RW8-MW01D3-20241217	P5317-25	VX044491.D	12/23/2024

COMMENTS:

Raw Data: **VX044218.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044218.D BFB Injection Date: 12/11/2024

Instrument ID: MSVOA_X BFB Injection Time: 10:13

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.7
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	71.1
175	5.0 - 9.0% of mass 174	5.2 (7.3) 1
176	95.0 - 101.0% of mass 174	68.7 (96.6) 1
177	5.0 - 9.0% of mass 176	4.6 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX044219.D	12/11/2024	10:41
VSTDICC005	VSTDICC005	VX044220.D	12/11/2024	11:27
VSTDICC020	VSTDICC020	VX044221.D	12/11/2024	11:50
VSTDICCC050	VSTDICCC050	VX044222.D	12/11/2024	12:14
VSTDICC100	VSTDICC100	VX044223.D	12/11/2024	12:37
VSTDICC150	VSTDICC150	VX044224.D	12/11/2024	13:00

Raw Data: **VX044396.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044396.D BFB Injection Date: 12/18/2024

Instrument ID: MSVOA_X BFB Injection Time: 21:02

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.6
75	30.0 - 60.0% of mass 95	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.7 (0.8) 1
174	50.0 - 100.0% of mass 95	78.2
175	5.0 - 9.0% of mass 174	5.4 (6.9) 1
176	95.0 - 101.0% of mass 174	74.4 (95.1) 1
177	5.0 - 9.0% of mass 176	4.5 (6.1) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX044397.D	12/18/2024	21:48
VX1218WBL02	VX1218WBL02	VX044398.D	12/18/2024	22:59
VX1218WBS02	VX1218WBS02	VX044399.D	12/18/2024	23:22
RE114D2-20241216	P5317-01	VX044401.D	12/19/2024	00:13
RW4-20241216	P5317-02	VX044402.D	12/19/2024	00:37
TT191D2-20241216	P5317-04	VX044404.D	12/19/2024	01:24
TT163S1-20241216	P5317-05	VX044405.D	12/19/2024	01:47
RW8-MW01S-20241216	P5317-07	VX044406.D	12/19/2024	02:10
RW8-MW01D1-20241216	P5317-08	VX044407.D	12/19/2024	02:34
TT158S1-20241217	P5317-09	VX044408.D	12/19/2024	02:57
TT158I1-20241217	P5317-10	VX044409.D	12/19/2024	03:21
TT172S1-20241217	P5317-12	VX044410.D	12/19/2024	03:44
RW9-MW01S-20241217	P5317-13	VX044411.D	12/19/2024	04:07
RW9-MW01D1-20241217	P5317-14	VX044412.D	12/19/2024	04:31
RW9-MW01D2-20241217	P5317-15	VX044413.D	12/19/2024	04:54
RW9-MW01D3-20241217	P5317-16	VX044414.D	12/19/2024	05:17
TB	P5317-23	VX044415.D	12/19/2024	05:41
RE132D5-20241217	P5317-18	VX044416.D	12/19/2024	06:04

Raw Data: **VX044396.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044396.D BFB Injection Date: 12/18/2024

Instrument ID: MSVOA_X BFB Injection Time: 21:02

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.6
75	30.0 - 60.0% of mass 95	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.7 (0.8) 1
174	50.0 - 100.0% of mass 95	78.2
175	5.0 - 9.0% of mass 174	5.4 (6.9) 1
176	95.0 - 101.0% of mass 174	74.4 (95.1) 1
177	5.0 - 9.0% of mass 176	4.5 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
RE132D5-20241217MS	P5317-19MS	VX044417.D	12/19/2024	06:28
RE132D5-20241217MSD	P5317-20MSD	VX044418.D	12/19/2024	06:51
VSTDCCC050EC	VSTDCCC050	VX044419.D	12/19/2024	07:14

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044437.D BFB Injection Date: 12/20/2024

Instrument ID: MSVOA_X BFB Injection Time: 08:49

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.4
75	30.0 - 60.0% of mass 95	52.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	77.7
175	5.0 - 9.0% of mass 174	5.6 (7.2) 1
176	95.0 - 101.0% of mass 174	76.6 (98.5) 1
177	5.0 - 9.0% of mass 176	4.7 (6.1) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX044438.D	12/20/2024	09:16
VX1220WBL01	VX1220WBL01	VX044440.D	12/20/2024	10:23
VX1220WBS01	VX1220WBS01	VX044441.D	12/20/2024	10:46
RW4-20241216DL	P5317-02DL	VX044450.D	12/20/2024	14:23
TT191D1-20241216	P5317-03	VX044452.D	12/20/2024	15:09
VSTDCCC050EC	VSTDCCC050	VX044464.D	12/20/2024	19:49

Raw Data: **VX044465.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044465.D BFB Injection Date: 12/23/2024

Instrument ID: MSVOA_X BFB Injection Time: 08:19

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.4
75	30.0 - 60.0% of mass 95	53.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	1.2 (1.5) 1
174	50.0 - 100.0% of mass 95	77.6
175	5.0 - 9.0% of mass 174	5.8 (7.5) 1
176	95.0 - 101.0% of mass 174	75.4 (97.2) 1
177	5.0 - 9.0% of mass 176	4.3 (5.7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX044466.D	12/23/2024	08:49
VX1223WBL01	VX1223WBL01	VX044468.D	12/23/2024	09:46
VX1223WBS01	VX1223WBS01	VX044469.D	12/23/2024	11:04
RE132D6-20241217	P5317-21	VX044485.D	12/23/2024	17:09
RE132D7-20241217	P5317-22	VX044486.D	12/23/2024	17:31
DUP-04-20241216	P5317-06	VX044487.D	12/23/2024	17:54
DUP-05-20241217	P5317-11	VX044488.D	12/23/2024	18:17
DUP-06-20241217	P5317-17	VX044489.D	12/23/2024	18:40
RW8-MW01D2-20241217	P5317-24	VX044490.D	12/23/2024	19:03
RW8-MW01D3-20241217	P5317-25	VX044491.D	12/23/2024	19:26
VSTDCCC050EC	VSTDCCC050	VX044492.D	12/23/2024	19:49

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044397.D Date Analyzed: 12/18/2024

Instrument ID: MSVOA_X Time Analyzed: 21:48

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	135217	5.54	239936	6.76	204282	10.06
UPPER LIMIT	270434	6.044	479872	7.257	408564	10.555
LOWER LIMIT	67608.5	5.044	119968	6.257	102141	9.555
EPA SAMPLE NO.						
RE114D2-20241216	107762	5.55	195811	6.76	176405	10.06
RW4-20241216	108595	5.55	199832	6.76	172545	10.06
TT191D2-20241216	108502	5.55	198842	6.76	177204	10.06
TT163S1-20241216	107084	5.55	188252	6.76	168467	10.06
RW8-MW01S-20241216	108582	5.54	195784	6.76	169226	10.06
RW8-MW01D1-20241216	111969	5.55	205674	6.76	179449	10.06
TT158S1-20241217	107112	5.55	197035	6.76	171282	10.06
TT158I1-20241217	108444	5.54	193059	6.76	169424	10.06
TT172S1-20241217	106531	5.54	190393	6.76	168278	10.06
RW9-MW01S-20241217	106718	5.55	197494	6.76	178573	10.06
RW9-MW01D1-20241217	111175	5.55	207120	6.76	180812	10.06
RW9-MW01D2-20241217	104505	5.55	188770	6.76	164946	10.06
RW9-MW01D3-20241217	107842	5.55	195942	6.76	171336	10.06
RE132D5-20241217	104497	5.54	189474	6.76	170677	10.06
RE132D5-20241217MS	120579	5.55	213617	6.76	190465	10.06
RE132D5-20241217MSD	116949	5.55	212543	6.76	188325	10.06
TB	109432	5.55	198449	6.76	170843	10.06
VX1218WBL02	114674	5.55	206506	6.76	183436	10.06
VX1218WBS02	128991	5.55	233001	6.76	200137	10.06

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044397.D Date Analyzed: 12/18/2024

Instrument ID: MSVOA_X Time Analyzed: 21:48

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	135217	5.54	239936	6.76	204282	10.06
UPPER LIMIT	270434	6.044	479872	7.257	408564	10.555
LOWER LIMIT	67608.5	5.044	119968	6.257	102141	9.555
EPA SAMPLE NO.						

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044397.D Date Analyzed: 12/18/2024

Instrument ID: MSVOA_X Time Analyzed: 21:48

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	94679	12.018				
UPPER LIMIT	189358	12.518				
LOWER LIMIT	47339.5	11.518				
EPA SAMPLE NO.						
RE114D2-20241216	72683	12.02				
RW4-20241216	70176	12.02				
TT191D2-20241216	73178	12.02				
TT163S1-20241216	67456	12.02				
RW8-MW01S-20241216	66576	12.02				
RW8-MW01D1-20241216	71479	12.02				
TT158S1-20241217	65660	12.02				
TT158I1-20241217	64056	12.02				
TT172S1-20241217	68296	12.02				
RW9-MW01S-20241217	73713	12.02				
RW9-MW01D1-20241217	74025	12.02				
RW9-MW01D2-20241217	62374	12.02				
RW9-MW01D3-20241217	67520	12.02				
RE132D5-20241217	71901	12.02				
RE132D5-20241217MS	89259	12.02				
RE132D5-20241217MSD	88743	12.02				
TB	68420	12.02				
VX1218WBL02	77360	12.02				
VX1218WBS02	86763	12.02				

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044397.D Date Analyzed: 12/18/2024

Instrument ID: MSVOA_X Time Analyzed: 21:48

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	94679	12.018				
UPPER LIMIT	189358	12.518				
LOWER LIMIT	47339.5	11.518				
EPA SAMPLE NO.						

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044438.D Date Analyzed: 12/20/2024

Instrument ID: MSVOA_X Time Analyzed: 09:16

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	136445	5.54	226018	6.76	197543	10.06
UPPER LIMIT	272890	6.044	452036	7.257	395086	10.555
LOWER LIMIT	68222.5	5.044	113009	6.257	98771.5	9.555
EPA SAMPLE NO.						
RW4-20241216DL	123451	5.55	220282	6.76	193072	10.06
TT191D1-20241216	118996	5.55	210803	6.76	181303	10.06
VX1220WBL01	120864	5.55	218417	6.76	193836	10.05
VX1220WBS01	146515	5.55	249173	6.76	212384	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044438.D Date Analyzed: 12/20/2024

Instrument ID: MSVOA_X Time Analyzed: 09:16

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	95339	12.018				
UPPER LIMIT	190678	12.518				
LOWER LIMIT	47669.5	11.518				
EPA SAMPLE NO.						
RW4-20241216DL	79195	12.02				
TT191D1-20241216	72773	12.02				
VX1220WBL01	81005	12.02				
VX1220WBS01	96885	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044466.D Date Analyzed: 12/23/2024

Instrument ID: MSVOA_X Time Analyzed: 08:49

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	98270	5.54	155098	6.75	129773	10.05
UPPER LIMIT	196540	6.044	310196	7.251	259546	10.549
LOWER LIMIT	49135	5.044	77549	6.251	64886.5	9.549
EPA SAMPLE NO.						
DUP-04-20241216	141229	5.55	244942	6.76	208216	10.05
DUP-05-20241217	132450	5.54	232737	6.76	211937	10.06
DUP-06-20241217	128956	5.54	226548	6.76	197304	10.06
RE132D6-20241217	144075	5.54	249365	6.76	221444	10.05
RE132D7-20241217	146702	5.54	250392	6.76	212795	10.05
RW8-MW01D2-20241217	134770	5.54	236910	6.76	213239	10.05
RW8-MW01D3-20241217	131619	5.55	231647	6.76	212925	10.05
VX1223WBL01	153955	5.54	275095	6.76	235868	10.05
VX1223WBS01	95798	5.54	150710	6.76	126811	10.06

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG NO.: P5317

Lab File ID: VX044466.D Date Analyzed: 12/23/2024

Instrument ID: MSVOA_X Time Analyzed: 08:49

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	59280	12.018				
UPPER LIMIT	118560	12.518				
LOWER LIMIT	29640	11.518				
EPA SAMPLE NO.						
DUP-04-20241216	92708	12.02				
DUP-05-20241217	95898	12.02				
DUP-06-20241217	84907	12.02				
RE132D6-20241217	102248	12.02				
RE132D7-20241217	100422	12.02				
RW8-MW01D2-20241217	94135	12.02				
RW8-MW01D3-20241217	89186	12.02				
VX1223WBL01	97837	12.02				
VX1223WBS01	57944	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE114D2-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044401.D	1		12/19/24 00:13	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.62	J	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	14.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.90	J	0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.70	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.62	J	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.65	J	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.90		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.57	J	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	110		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.29	J	0.18	0.50	1.00	ug/L

Raw Data: **VX044401.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE114D2-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044401.D	1		12/19/24 00:13	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.42	J	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	0.48	J	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.7		81 - 118		89%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	53.1		89 - 112		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	108000	5.55				
540-36-3	1,4-Difluorobenzene	196000	6.757				
3114-55-4	Chlorobenzene-d5	176000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	72700	12.024				

Raw Data: **VX044401.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE114D2-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044401.D	1		12/19/24 00:13	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044401.D
Acq On : 19 Dec 2024 00:13
Operator : JC/MD
Sample : P5317-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 05:06:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	107762	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	195811	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	176405	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	72683	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	84423	44.682	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 89.360%			
35) Dibromofluoromethane	5.379	113	64929	47.877	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.760%			
50) Toluene-d8	8.647	98	243041	53.120	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.240%			
62) 4-Bromofluorobenzene	11.079	95	77802	48.665	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	1030	0.618	ug/l	76
9) 1,1,2-Trichlorotrifluo...	2.319	101	18563	14.116	ug/l	95
12) 1,1-Dichloroethene	2.306	96	1092	0.904	ug/l	99
16) Acetone	2.386	43	1335	1.733	ug/l #	89
20) Methylene Chloride	2.776	84	431	0.298	ug/l #	67
24) 1,1-Dichloroethane	3.605	63	1566	0.620	ug/l #	80
27) cis-1,2-Dichloroethene	4.489	96	3021	1.853	ug/l	80
30) Chloroform	5.080	83	1621m	0.571	ug/l	
38) Carbon Tetrachloride	5.666	117	1231	0.652	ug/l	97
44) Trichloroethene	7.117	130	146402	110.301	ug/l	95
52) Toluene	8.720	92	969	0.290	ug/l	98
55) 1,1,2-Trichloroethane	9.159	97	559	0.421	ug/l #	83
68) m/p-Xylenes	10.305	106	1159	0.484	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VX044401.D**

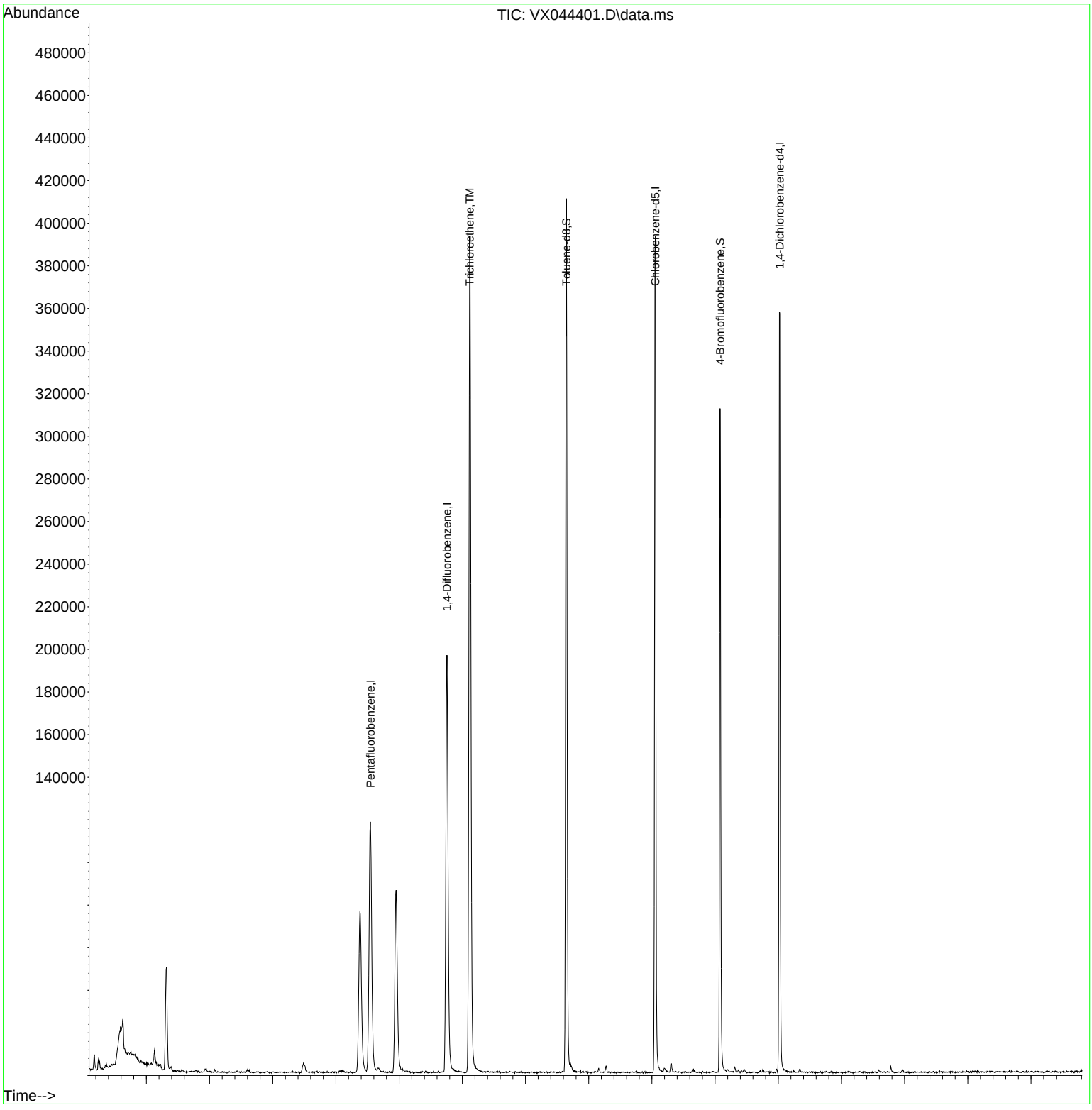
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044401.D
Acq On : 19 Dec 2024 00:13
Operator : JC/MD
Sample : P5317-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 33 Sample Multiplier: 1

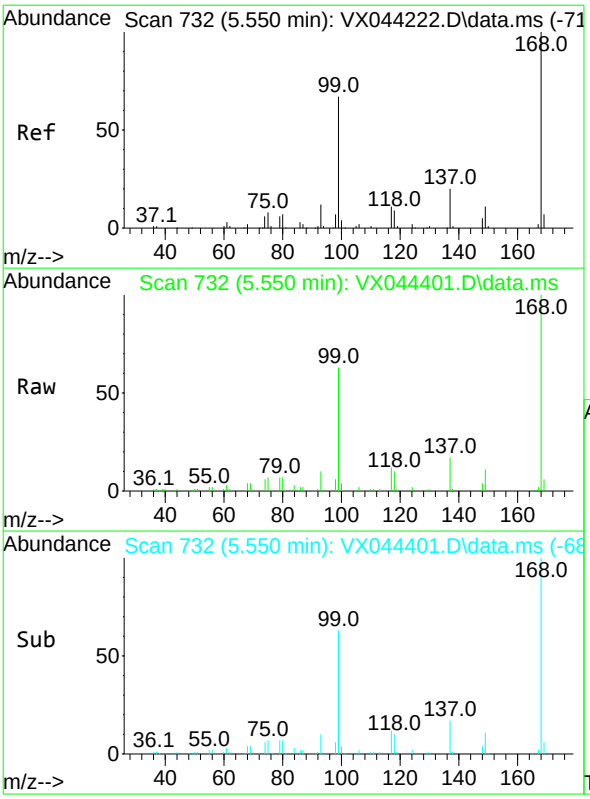
Quant Time: Dec 19 05:06:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

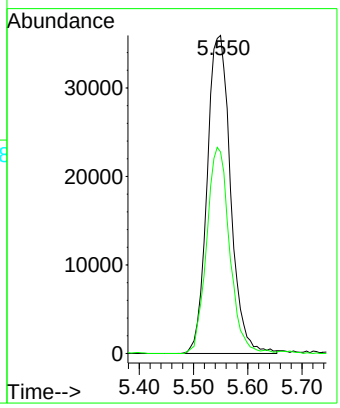
Tgt Ion:168 Resp: 107762

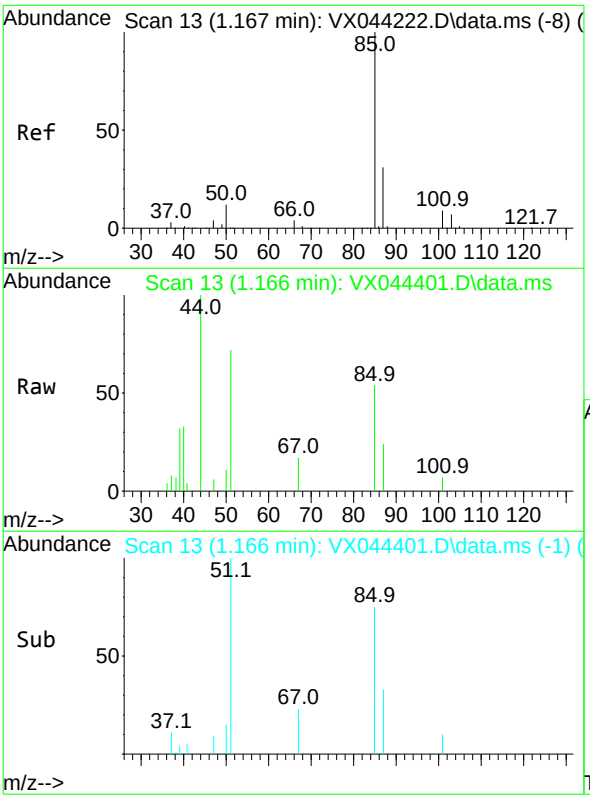
Ion	Ratio	Lower	Upper
168	100		
99	63.4	53.4	80.0

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

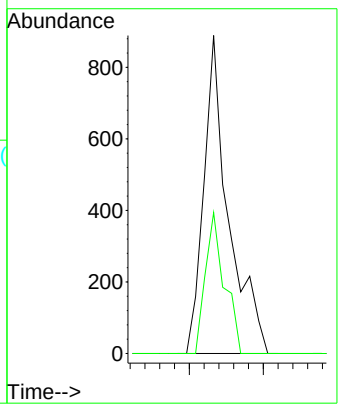


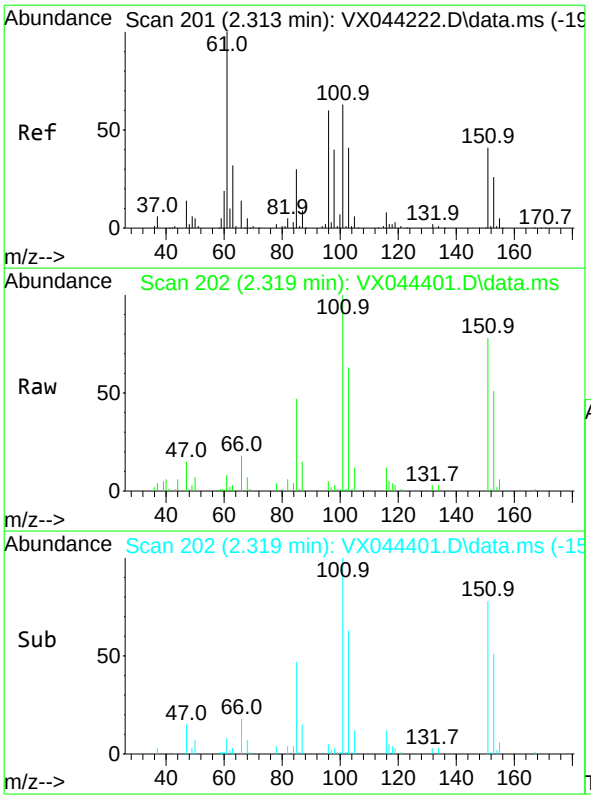


#2
Dichlorodifluoromethane
Concen: 0.618 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 85 Resp: 1030

Ion	Ratio	Lower	Upper
85	100		
87	44.3	15.4	46.4





#9
1,1,2-Trichlorotrifluoroethane
Concen: 14.116 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

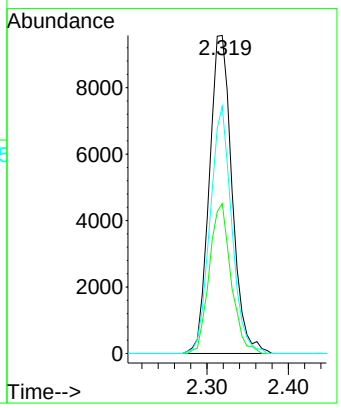
Tgt Ion:101 Resp: 18563

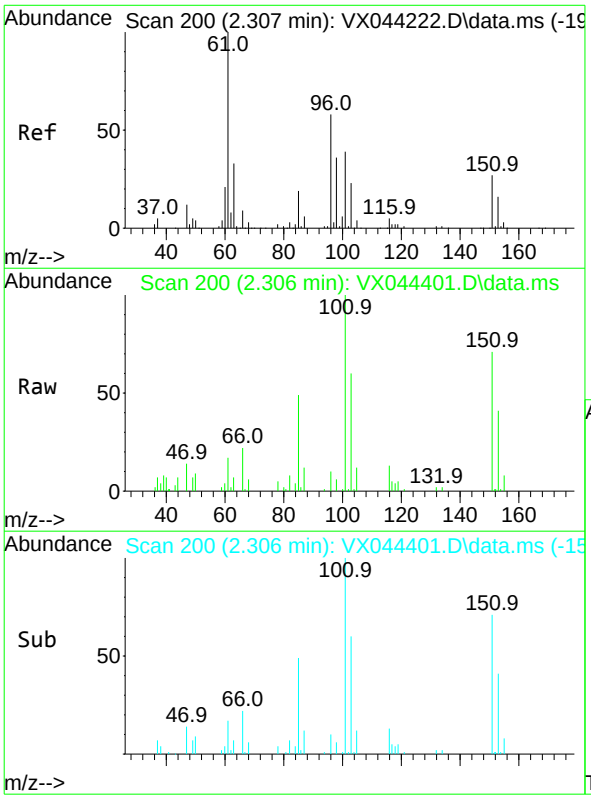
Ion	Ratio	Lower	Upper
101	100		
85	45.1	38.5	57.7
151	74.0	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

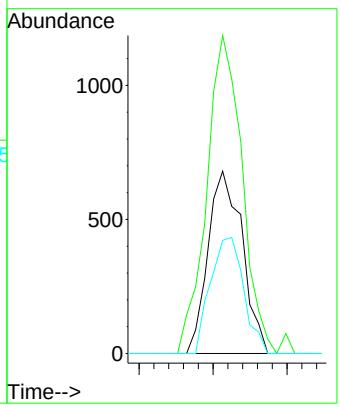


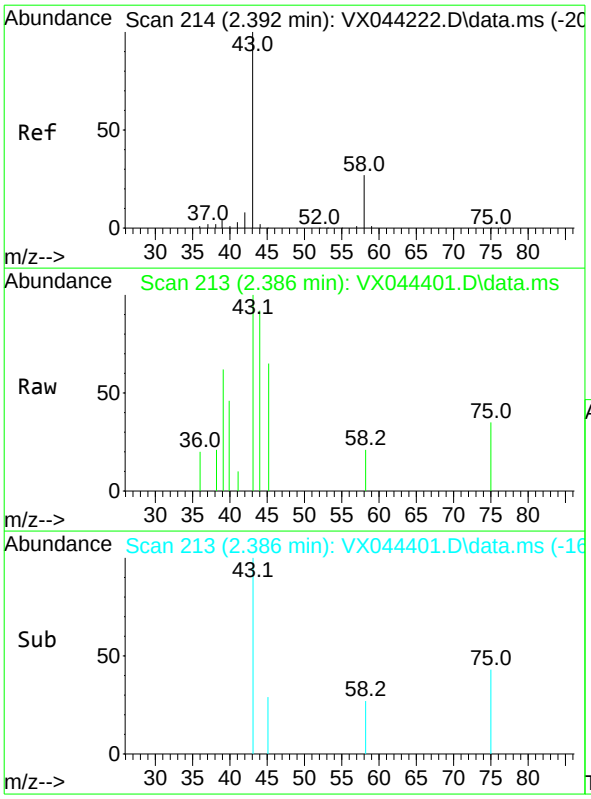


#12
1,1-Dichloroethene
Concen: 0.904 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 96 Resp: 1092

Ion	Ratio	Lower	Upper
96	100		
61	174.4	138.0	207.0
98	62.1	50.0	75.0





#16
Acetone
Concen: 1.733 ug/l
RT: 2.386 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

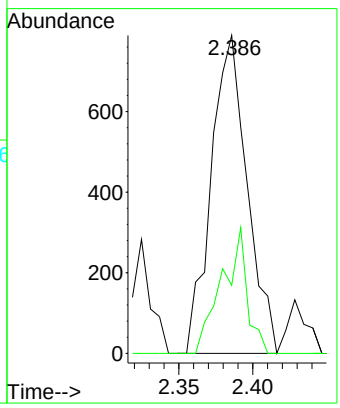
Tgt Ion: 43 Resp: 1335

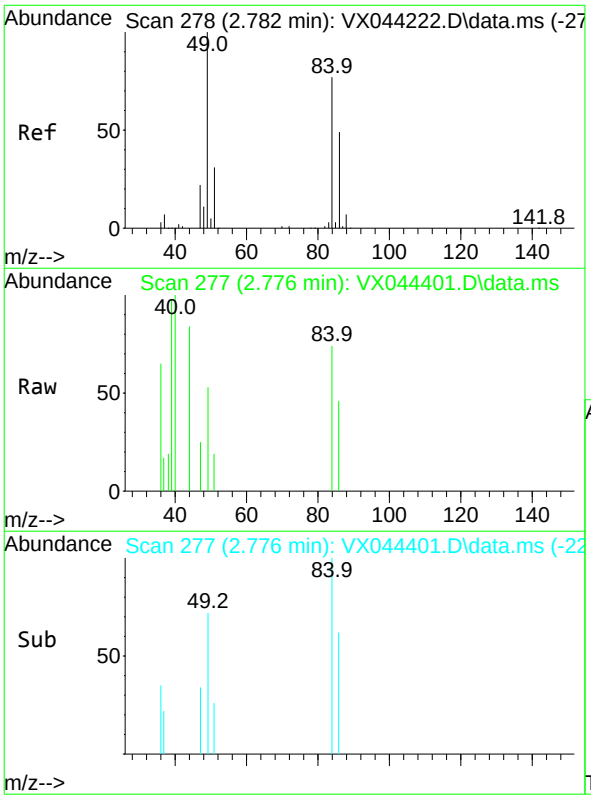
Ion	Ratio	Lower	Upper
43	100		
58	21.4	21.6	32.4#

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

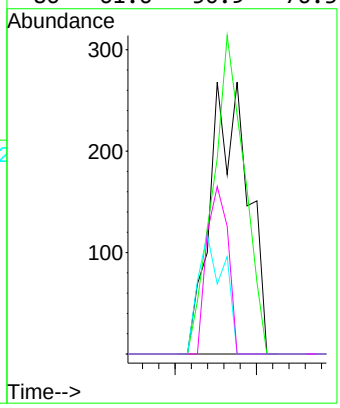


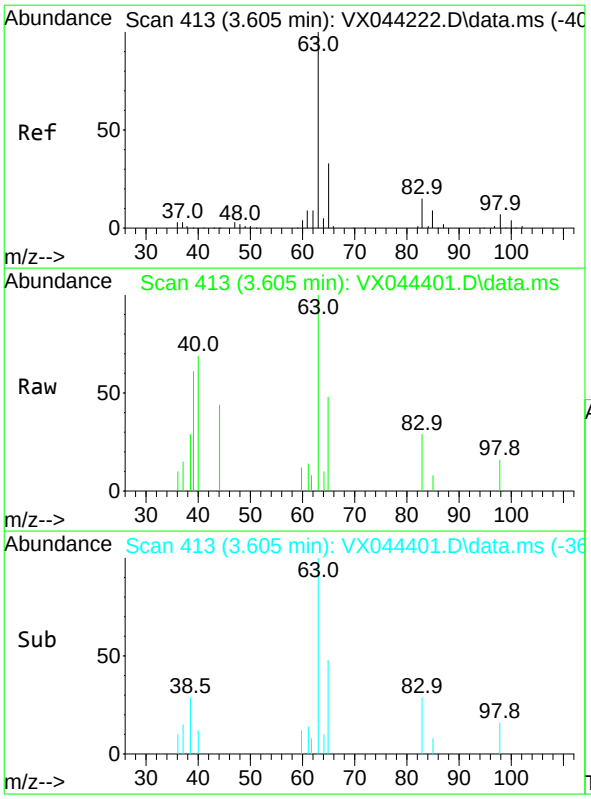


#20
Methylene Chloride
Concen: 0.298 ug/l
RT: 2.776 min Scan# 277
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 84 Resp: 431

Ion	Ratio	Lower	Upper
84	100		
49	72.0	104.2	156.4#
51	25.7	32.2	48.4#
86	61.6	50.9	76.3

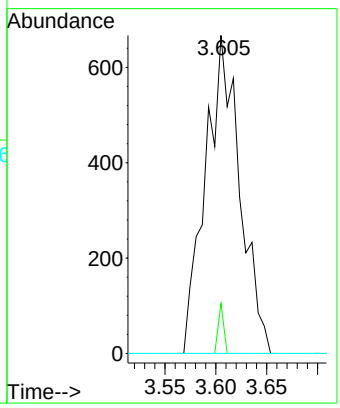




#24
1,1-Dichloroethane
Concen: 0.620 ug/l
RT: 3.605 min Scan# 41
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 63 Resp: 1566

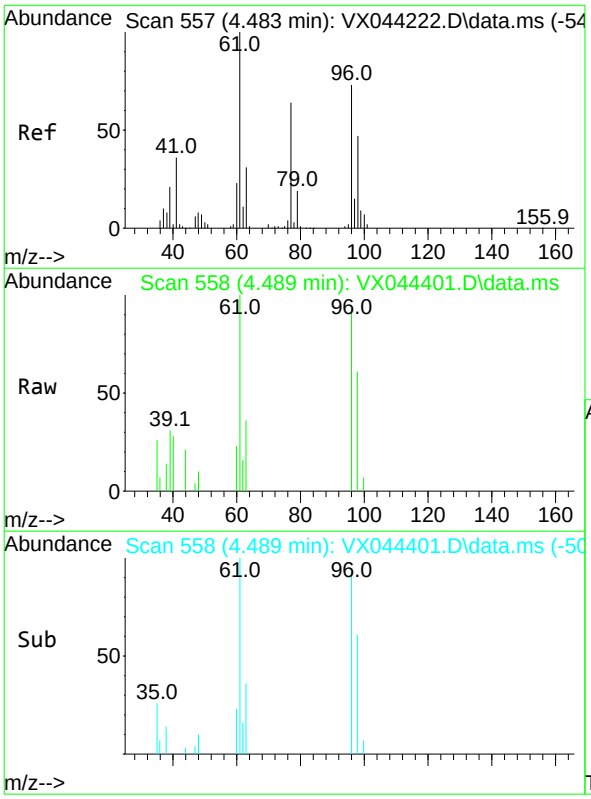
Ion	Ratio	Lower	Upper
63	100		
98	15.7	3.6	10.8#
100	0.0	2.1	6.3#



Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Manual Integrations
APPROVED

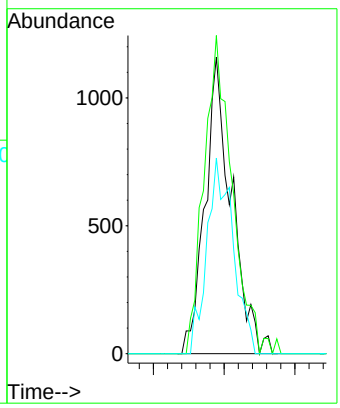
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

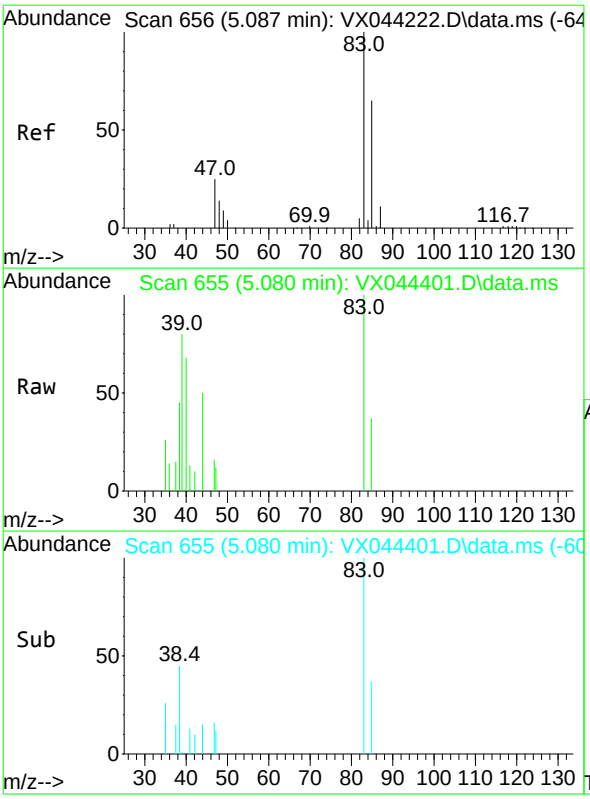


#27
cis-1,2-Dichloroethene
Concen: 1.853 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 96 Resp: 3021

Ion	Ratio	Lower	Upper
96	100		
61	114.0	0.0	299.0
98	65.1	0.0	129.0

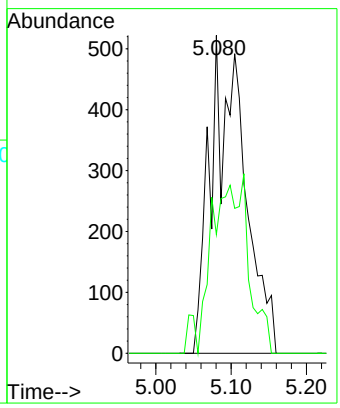




#30
Chloroform
Concen: 0.571 ug/l m
RT: 5.080 min Scan# 65
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 83 Resp: 1621

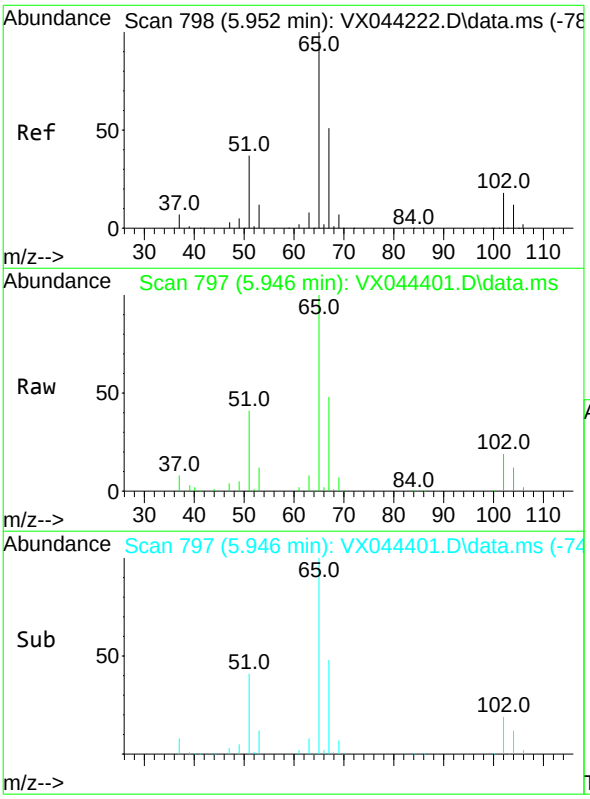
Ion	Ratio	Lower	Upper
83	100		
85	37.4	51.6	77.4#



Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Manual Integrations
APPROVED

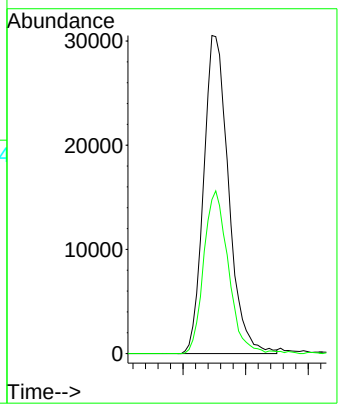
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

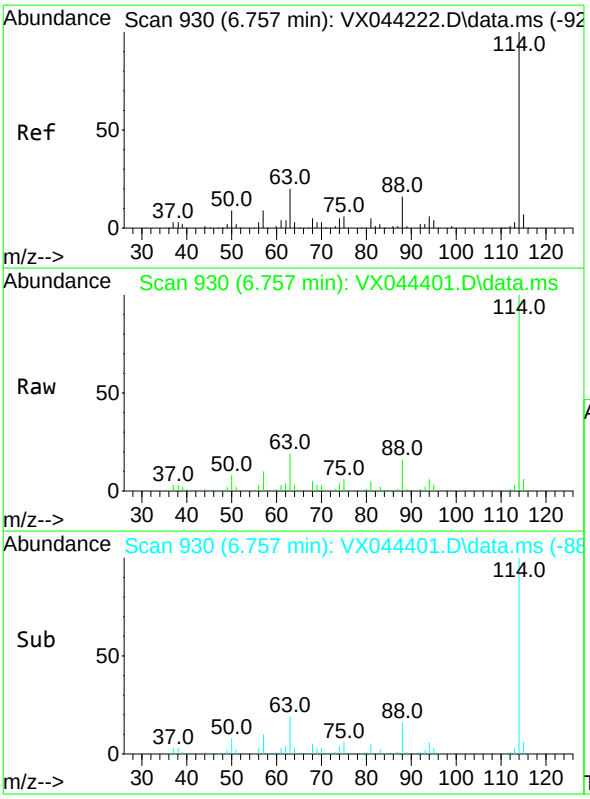


#33
1,2-Dichloroethane-d4
Concen: 44.682 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 65 Resp: 84423

Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	101.6





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

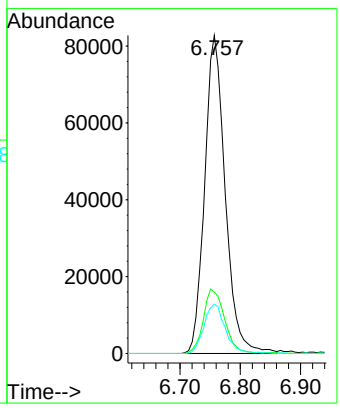
Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

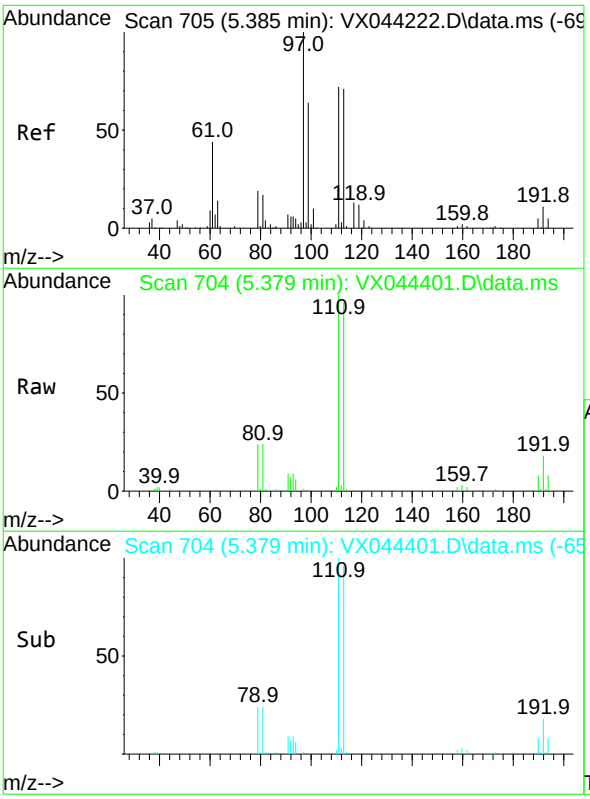
Tgt Ion:114 Resp: 195811

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	40.6
88	15.5	0.0	31.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

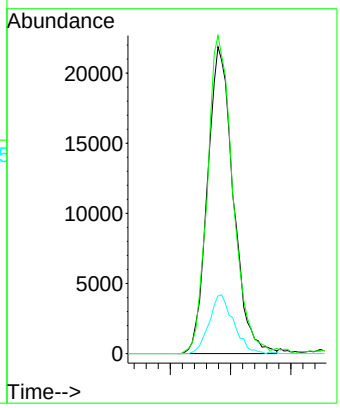


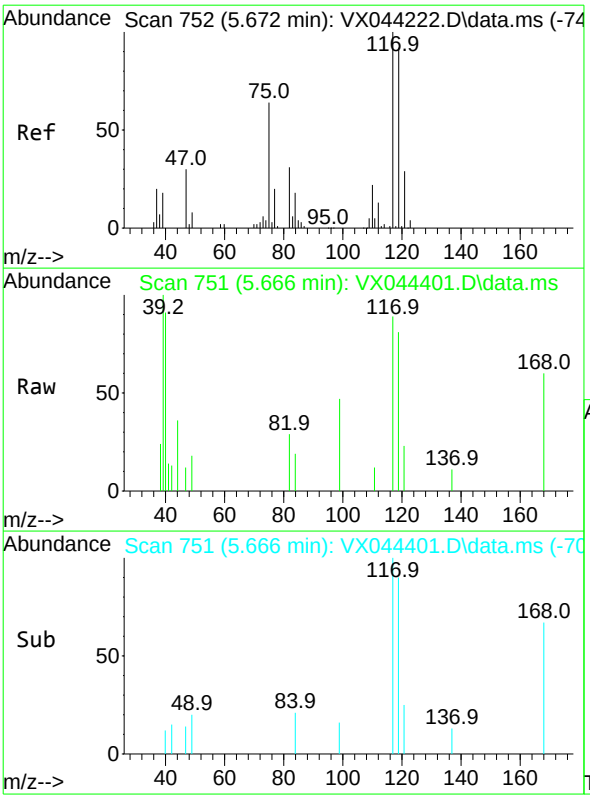


#35
Dibromofluoromethane
Concen: 47.877 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion:113 Resp: 64929

Ion	Ratio	Lower	Upper
113	100		
111	102.5	80.4	120.6
192	18.1	13.3	19.9

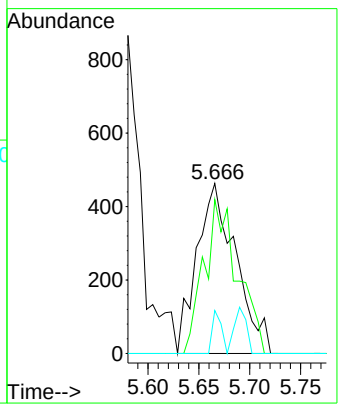




#38
Carbon Tetrachloride
Concen: 0.652 ug/l
RT: 5.666 min Scan# 75
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion:117 Resp: 1231

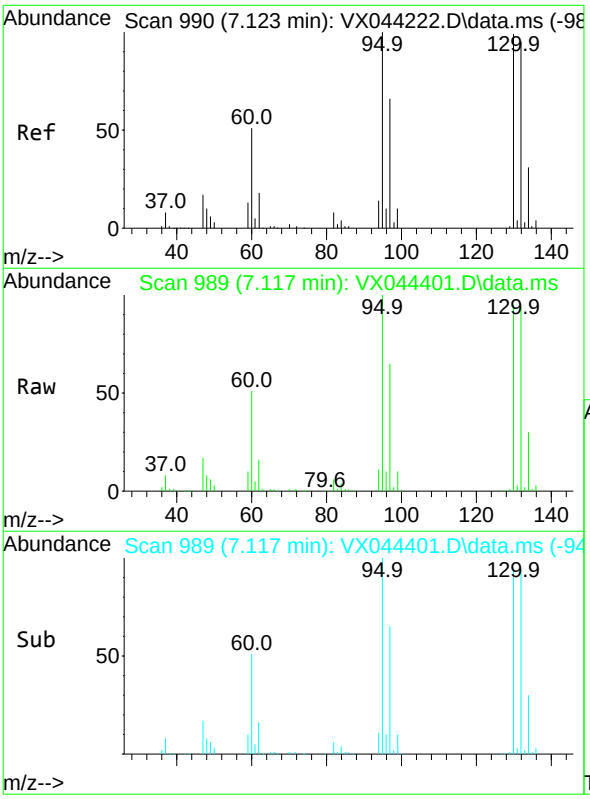
Ion	Ratio	Lower	Upper
117	100		
119	90.5	74.2	111.4
121	25.3	23.0	34.6



Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Manual Integrations
APPROVED

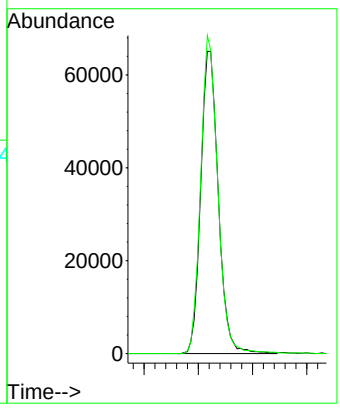
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

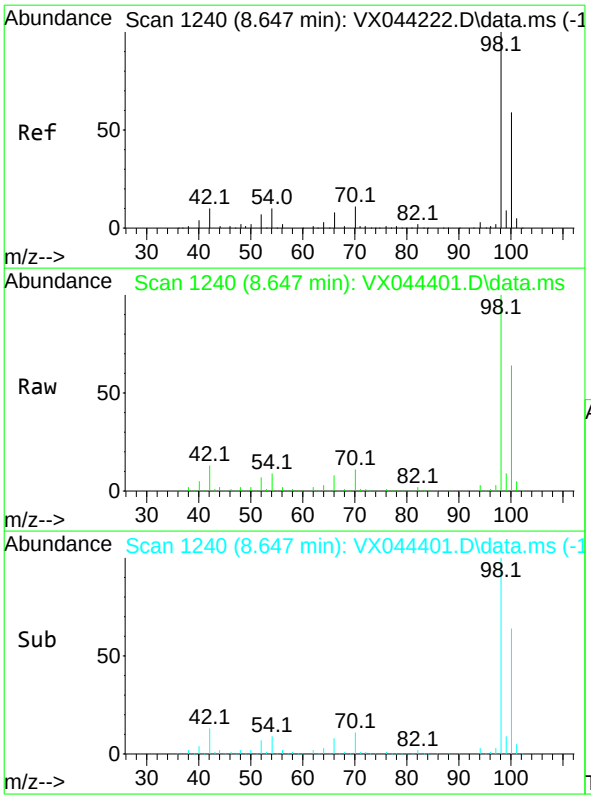


#44
Trichloroethene
Concen: 110.301 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion:130 Resp: 146402

Ion	Ratio	Lower	Upper
130	100		
95	105.2	0.0	201.4





#50
Toluene-d8
Concen: 53.120 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

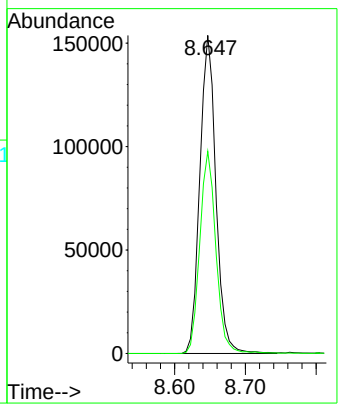
Tgt Ion: 98 Resp: 243041

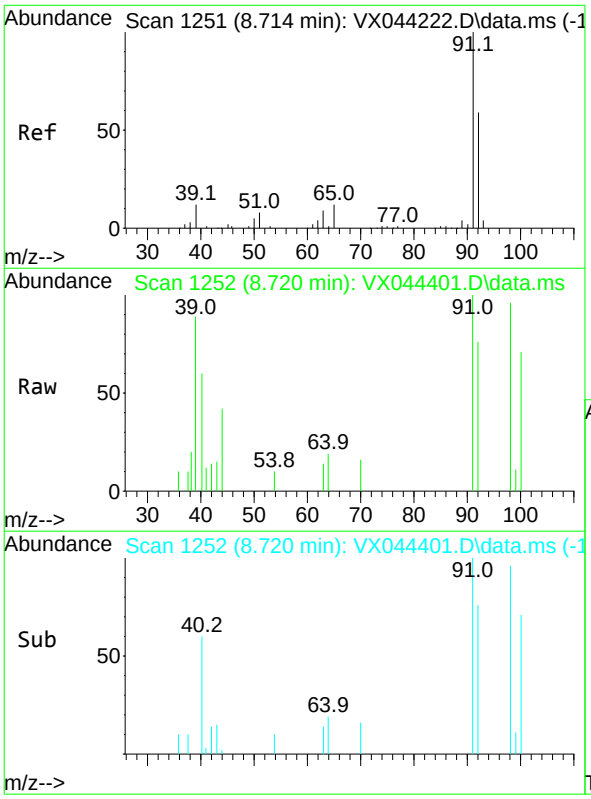
Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.5	77.3

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

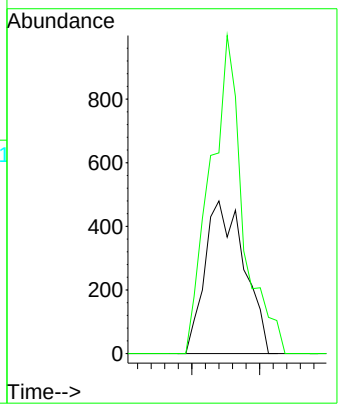


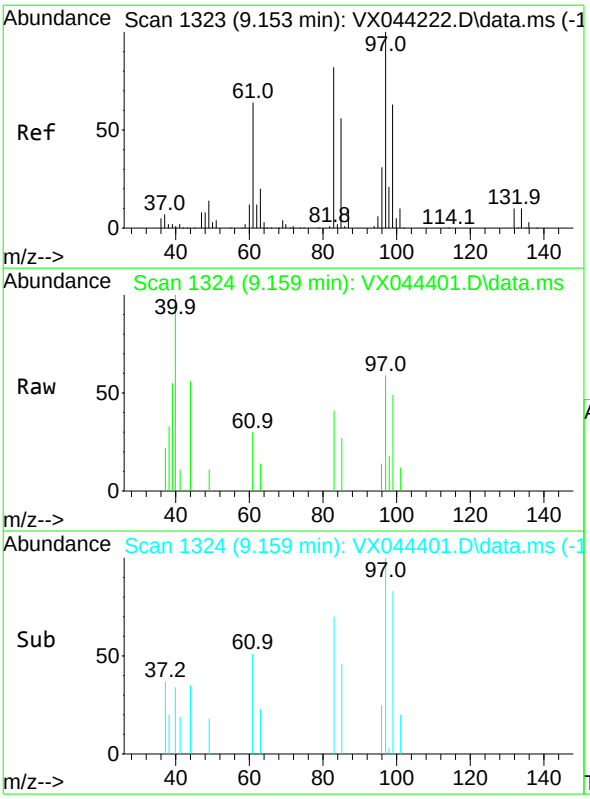


#52
Toluene
Concen: 0.290 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 92 Resp: 969

Ion	Ratio	Lower	Upper
92	100		
91	174.4	137.0	205.6

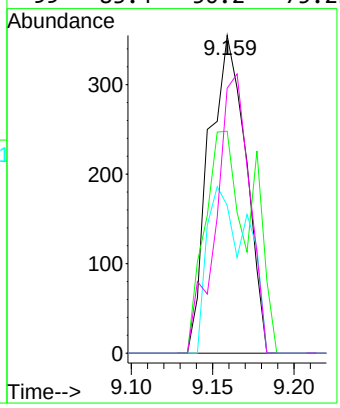




#55
1,1,2-Trichloroethane
Concen: 0.421 ug/l
RT: 9.159 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 97 Resp: 559

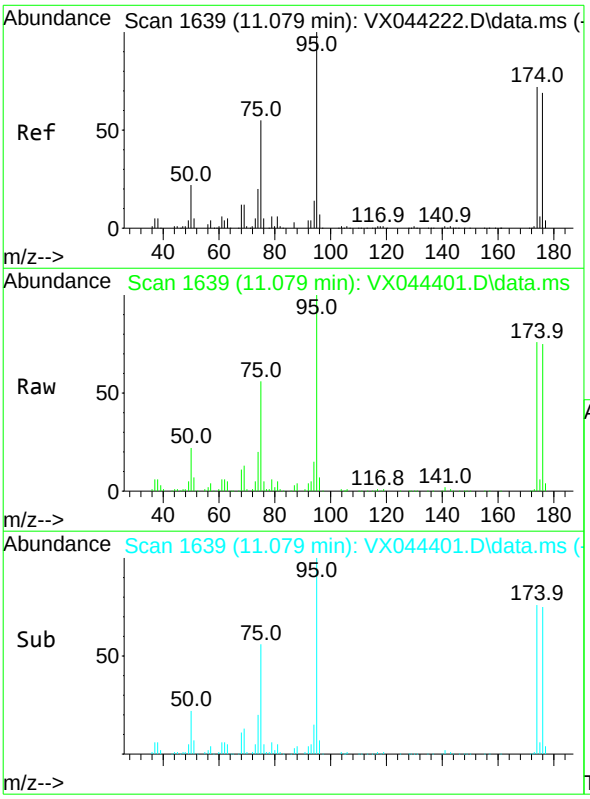
Ion	Ratio	Lower	Upper
97	100		
83	69.9	65.3	97.9
85	46.5	44.6	67.0
99	83.4	50.2	75.2#



Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Manual Integrations
APPROVED

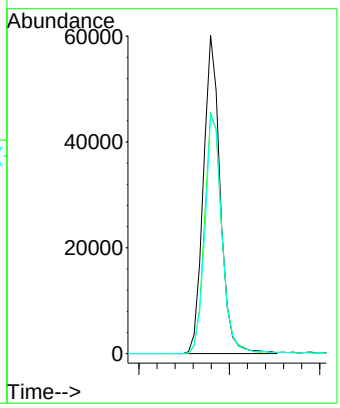
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

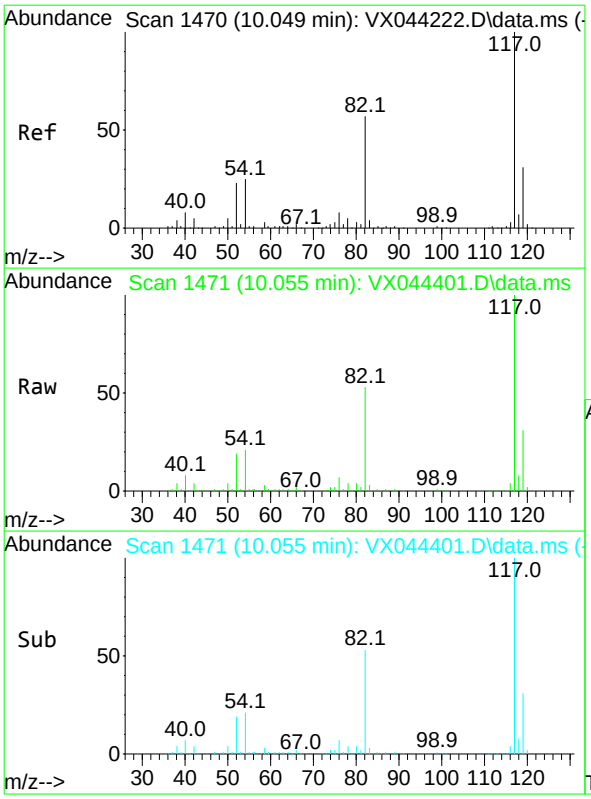


#62
4-Bromofluorobenzene
Concen: 48.665 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 95 Resp: 77802

Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	145.8
176	76.2	0.0	137.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

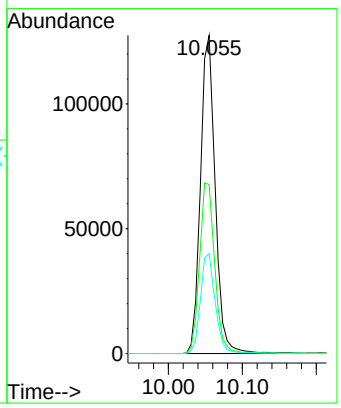
Tgt Ion:117 Resp: 176405

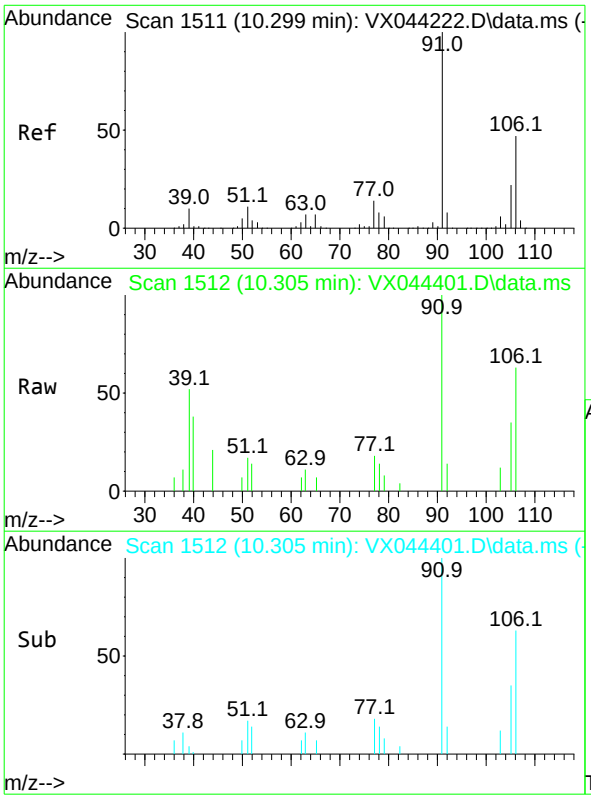
Ion	Ratio	Lower	Upper
117	100		
82	53.1	45.8	68.8
119	31.4	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

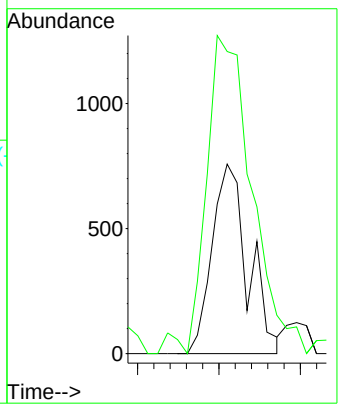


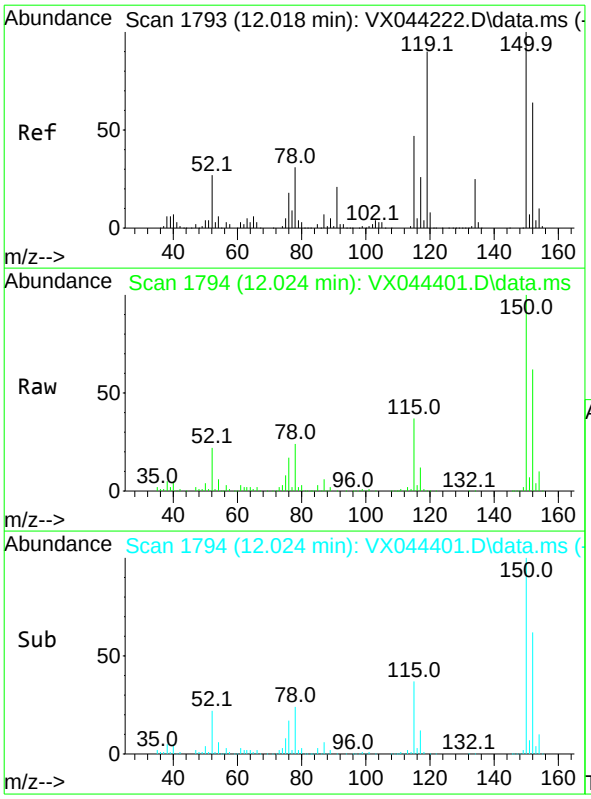


#68
m/p-Xylenes
Concen: 0.484 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion:106 Resp: 1159

Ion	Ratio	Lower	Upper
106	100		
91	214.6	170.2	255.2

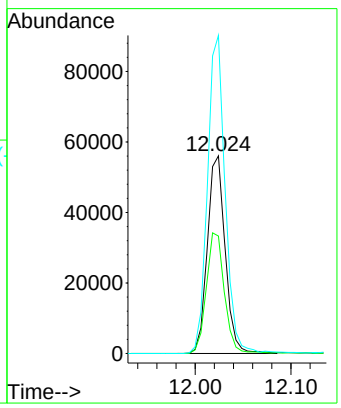




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion:152 Resp: 72683

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.5	133.3
150	159.9	0.0	353.8



Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW4-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044402.D	1		12/19/24 00:37	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	10.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.10		0.26	0.75	1.00	ug/L
67-64-1	Acetone	2.30	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.55	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.20		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.34	J	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	510	E	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW4-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044402.D	1		12/19/24 00:37	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.34	J	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	6.80		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.4		81 - 118		93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	51.2		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	109000	5.55				
540-36-3	1,4-Difluorobenzene	200000	6.757				
3114-55-4	Chlorobenzene-d5	173000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	70200	12.024				

Raw Data: **VX044402.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW4-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044402.D	1		12/19/24 00:37	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT/LSC Reviewed)

Sample Results: **VX044402.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044402.D
Acq On : 19 Dec 2024 00:37
Operator : JC/MD
Sample : P5317-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216

Quant Time: Dec 19 05:07:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

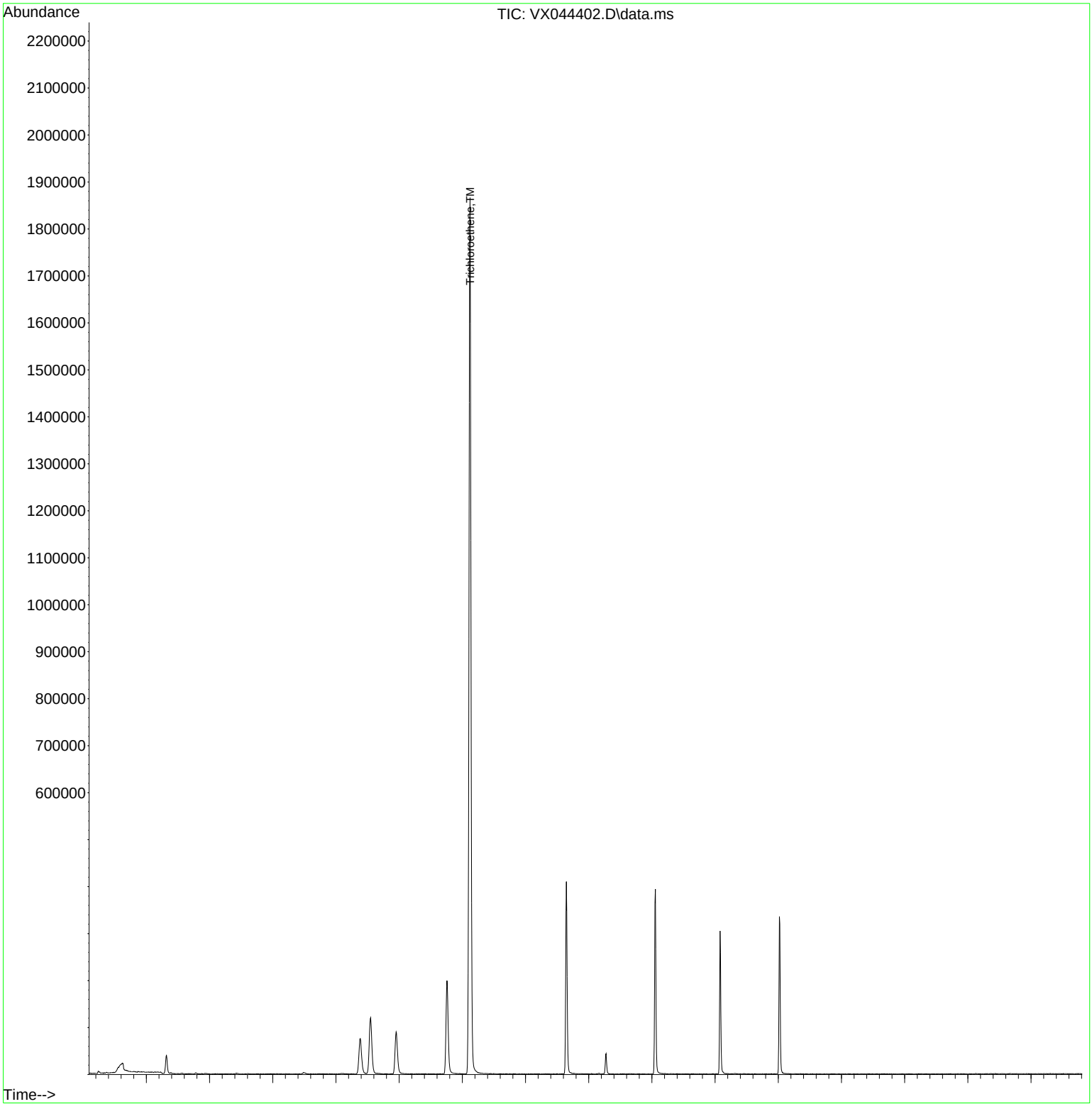
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.550	168	108595	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	199832	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	172545	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	70176	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.952	65	88339	46.396	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 92.800%				
35) Dibromofluoromethane	5.385	113	65937	47.642	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.280%				
50) Toluene-d8	8.647	98	239168	51.222	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.440%				
62) 4-Bromofluorobenzene	11.079	95	75829	46.476	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.960%				
Target Compounds							Qvalue
3) Chloromethane	1.294	50	501	0.312	ug/l		99
9) 1,1,2-Trichlorotrifluo...	2.319	101	13698	10.336	ug/l		98
12) 1,1-Dichloroethene	2.313	96	1397	1.148	ug/l		82
16) Acetone	2.386	43	1776	2.288	ug/l	#	86
20) Methylene Chloride	2.788	84	800	0.549	ug/l	#	81
27) cis-1,2-Dichloroethene	4.489	96	2032	1.237	ug/l		74
30) Chloroform	5.099	83	968	0.339	ug/l	#	57
44) Trichloroethene	7.123	130	694778	512.923	ug/l		100
55) 1,1,2-Trichloroethane	9.153	97	465	0.343	ug/l	#	58
64) Tetrachloroethene	9.275	164	7782	6.795	ug/l		98

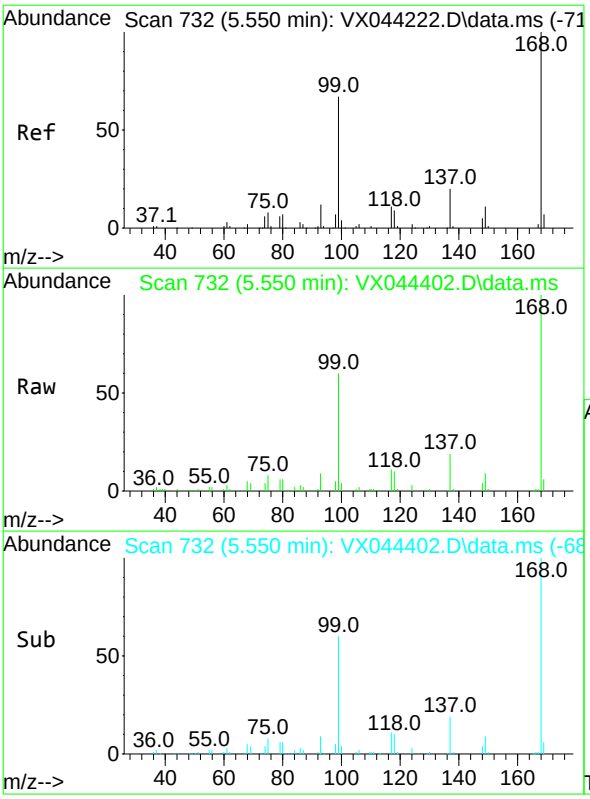
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044402.D
Acq On : 19 Dec 2024 00:37
Operator : JC/MD
Sample : P5317-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216

Quant Time: Dec 19 05:07:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



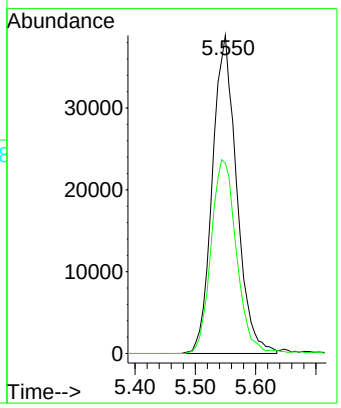


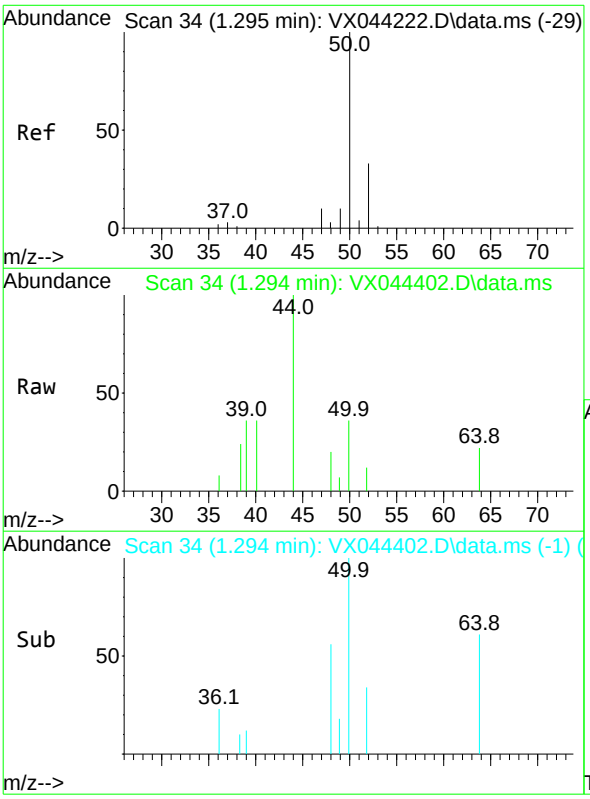
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216

Tgt Ion:168 Resp: 108595

Ion	Ratio	Lower	Upper
168	100		
99	59.8	53.4	80.0

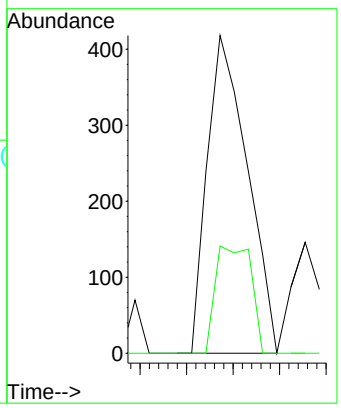


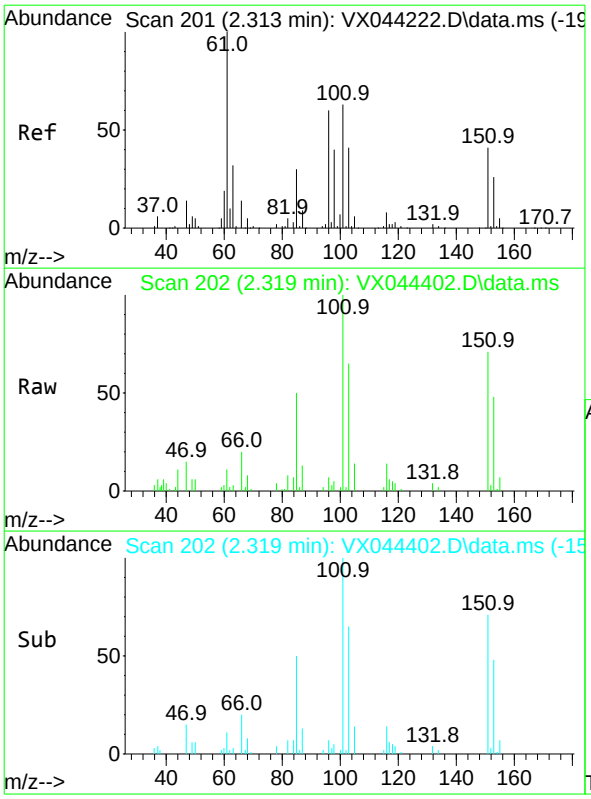


#3
Chloromethane
Concen: 0.312 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Tgt Ion: 50 Resp: 501

Ion	Ratio	Lower	Upper
50	100		
52	33.7	26.5	39.7



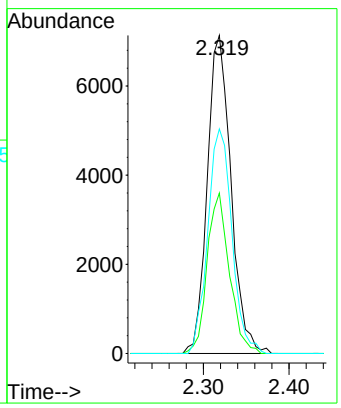


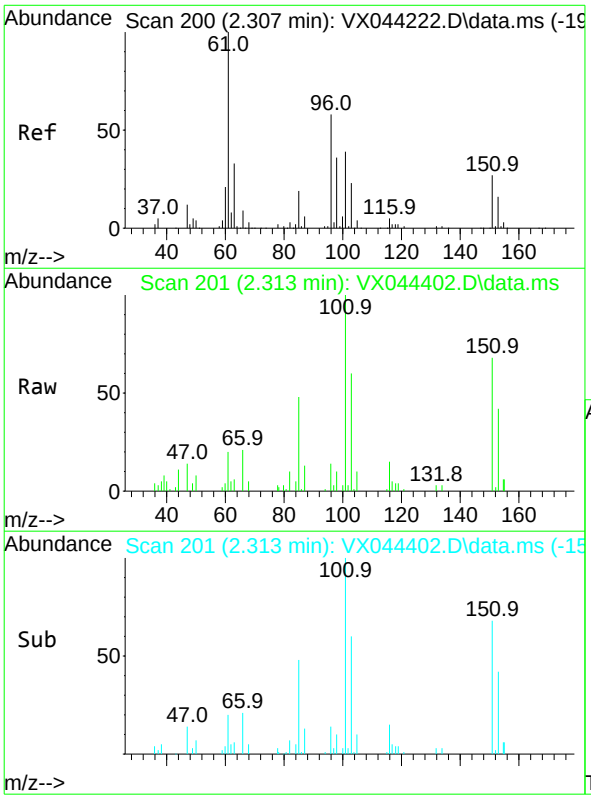
#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.336 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216

Tgt Ion:101 Resp: 13698

Ion	Ratio	Lower	Upper
101	100		
85	47.4	38.5	57.7
151	72.2	55.8	83.6

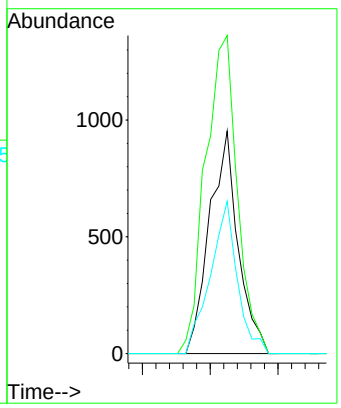


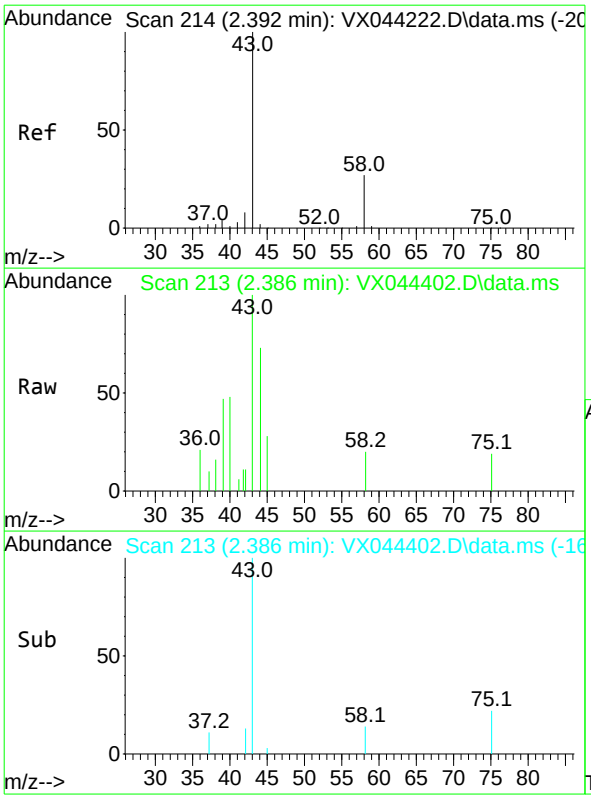


#12
1,1-Dichloroethene
Concen: 1.148 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Tgt Ion: 96 Resp: 1397

Ion	Ratio	Lower	Upper
96	100		
61	142.9	138.0	207.0
98	68.4	50.0	75.0



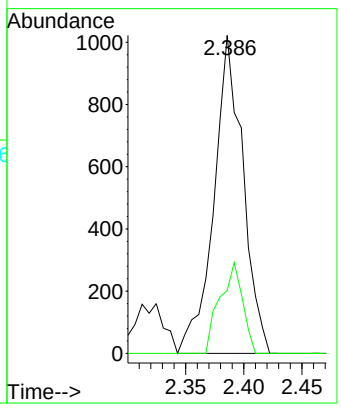


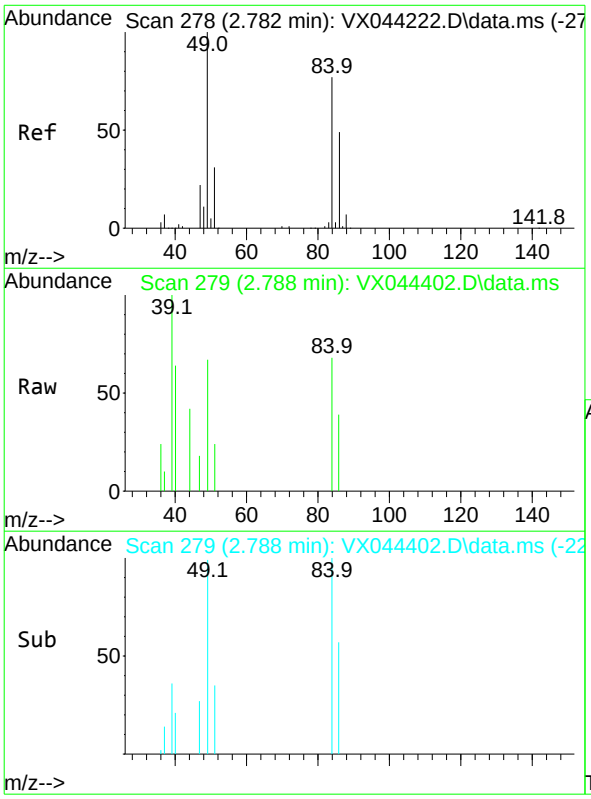
#16
Acetone
Concen: 2.288 ug/l
RT: 2.386 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216

Tgt Ion: 43 Resp: 1776

Ion	Ratio	Lower	Upper
43	100		
58	19.8	21.6	32.4#

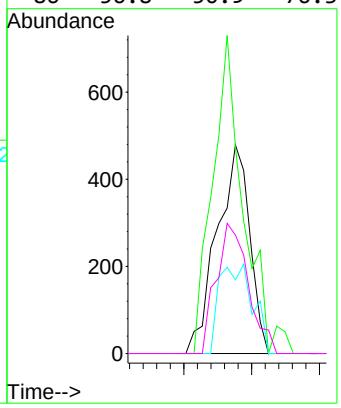


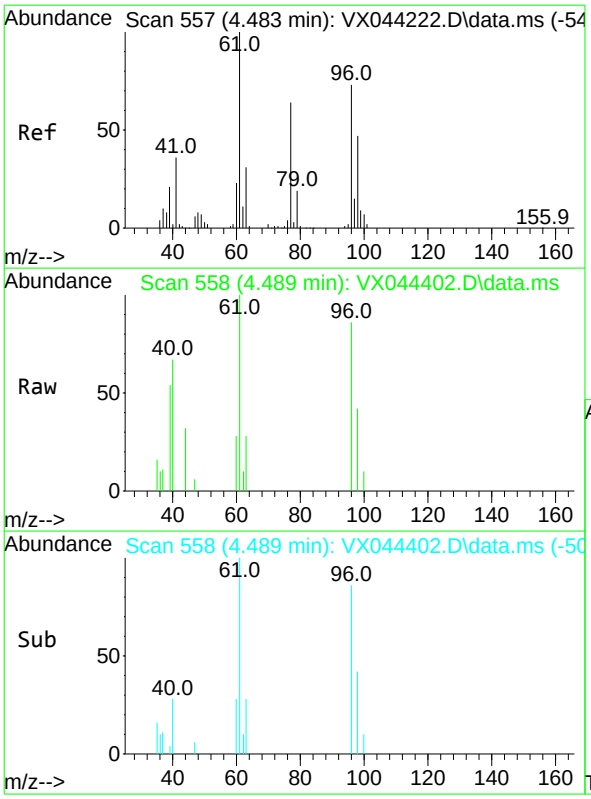


#20
Methylene Chloride
Concen: 0.549 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Tgt Ion: 84 Resp: 800

Ion	Ratio	Lower	Upper
84	100		
49	98.7	104.2	156.4#
51	35.3	32.2	48.4
86	56.8	50.9	76.3



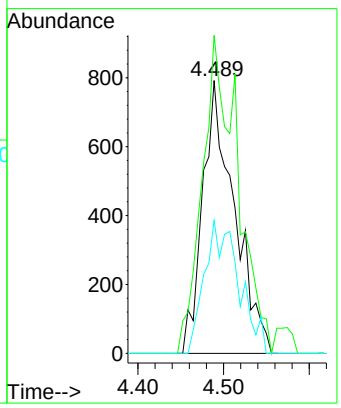


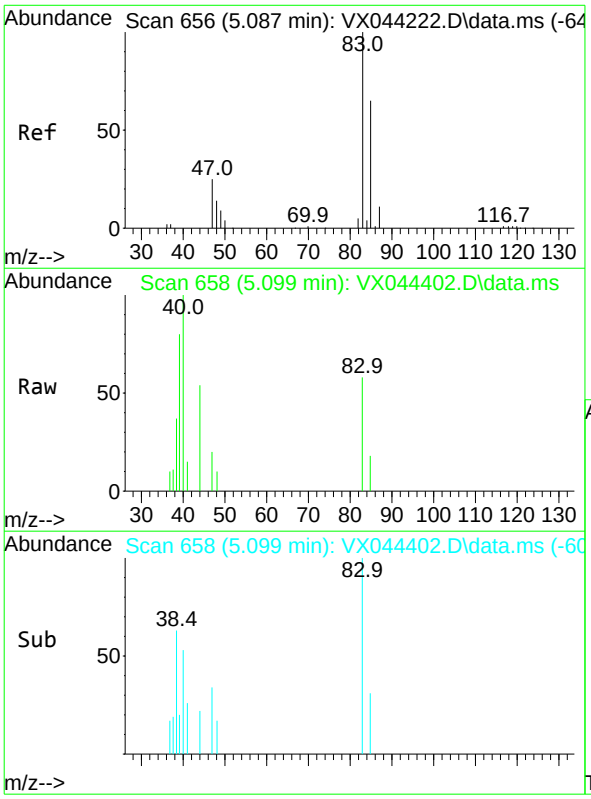
#27
cis-1,2-Dichloroethene
Concen: 1.237 ug/l
RT: 4.489 min Scan# 55
Delta R.T. 0.006 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216

Tgt Ion: 96 Resp: 2032

Ion	Ratio	Lower	Upper
96	100		
61	130.3	0.0	299.0
98	24.6	0.0	129.0

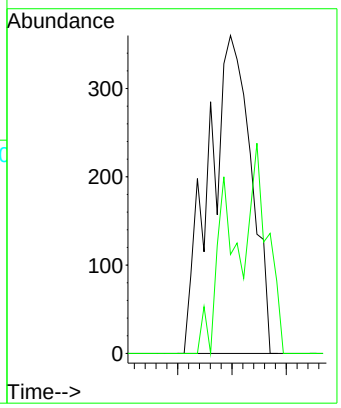


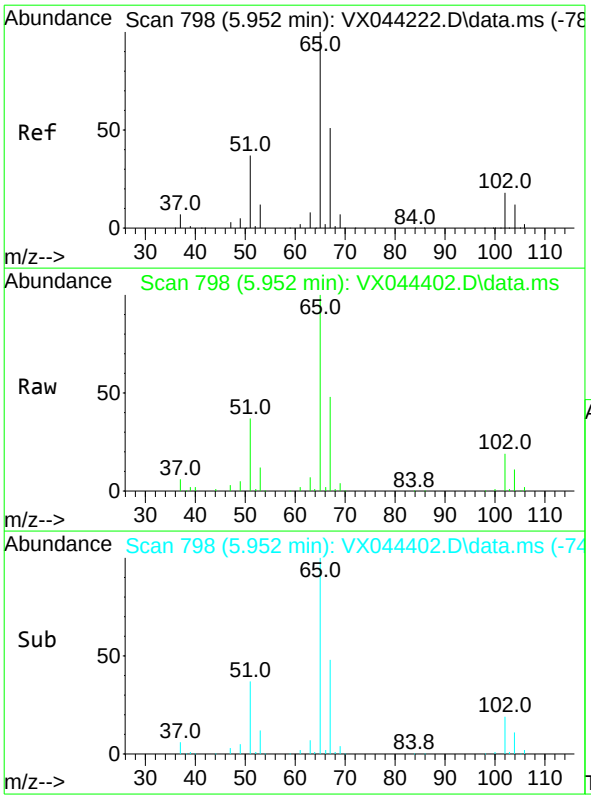


#30
Chloroform
Concen: 0.339 ug/l
RT: 5.099 min Scan# 658
Delta R.T. 0.012 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Tgt Ion: 83 Resp: 968

Ion	Ratio	Lower	Upper
83	100		
85	31.1	51.6	77.4#



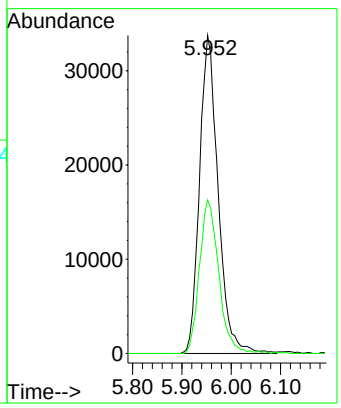


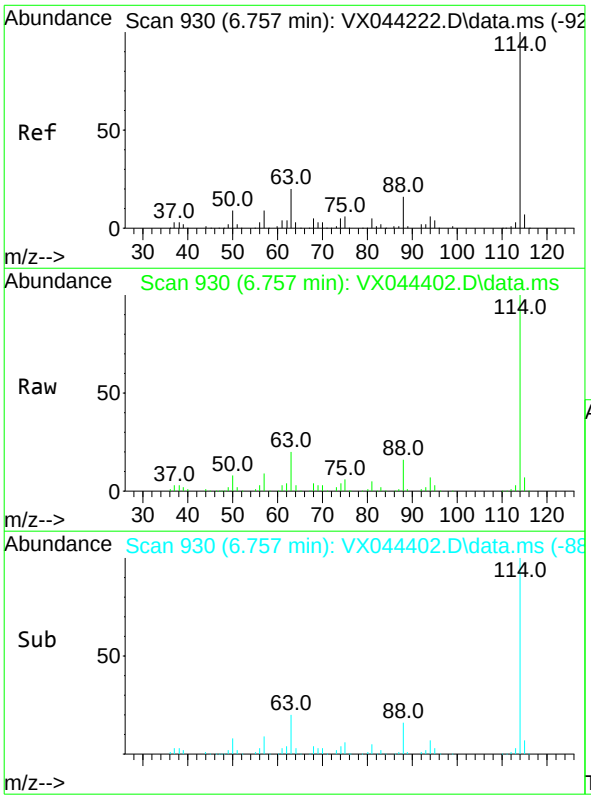
#33
1,2-Dichloroethane-d4
Concen: 46.396 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216

Tgt Ion: 65 Resp: 88339

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	101.6

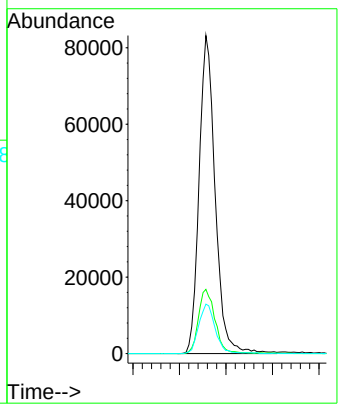


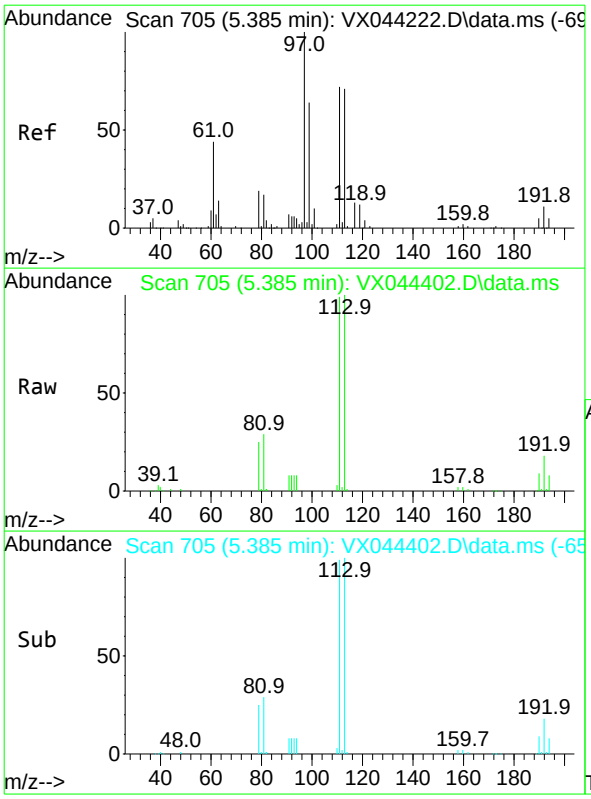


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Tgt Ion:114 Resp: 199832

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.6
88	15.5	0.0	31.8



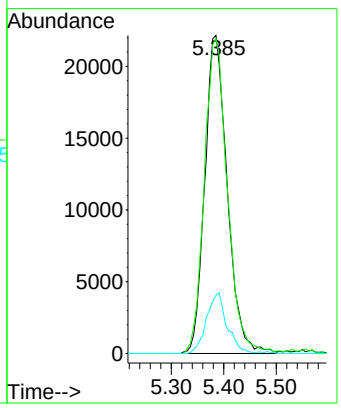


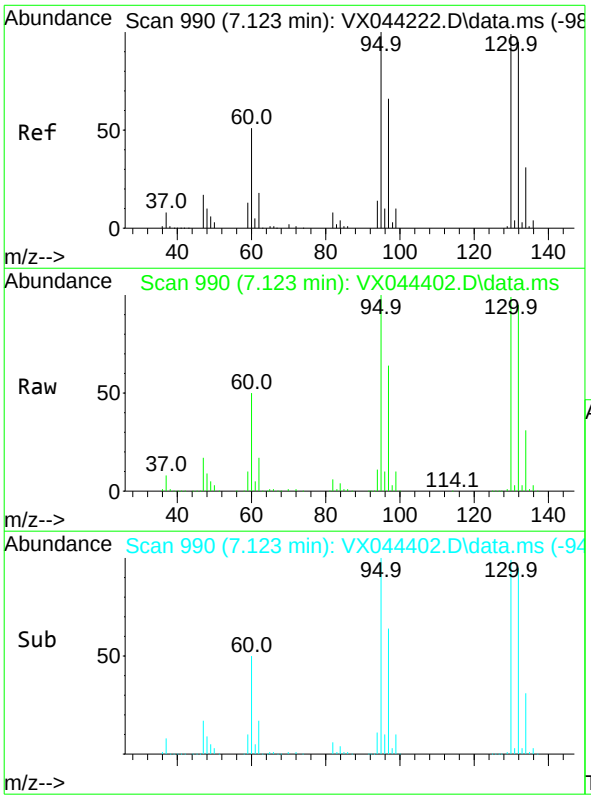
#35
Dibromofluoromethane
Concen: 47.642 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216

Tgt Ion:113 Resp: 65937

Ion	Ratio	Lower	Upper
113	100		
111	101.8	80.4	120.6
192	17.3	13.3	19.9

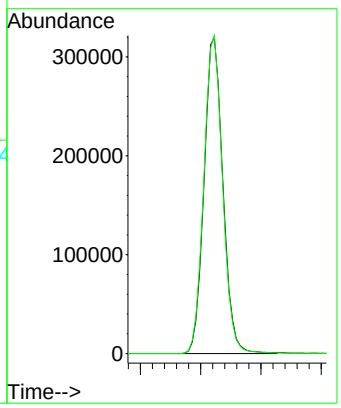


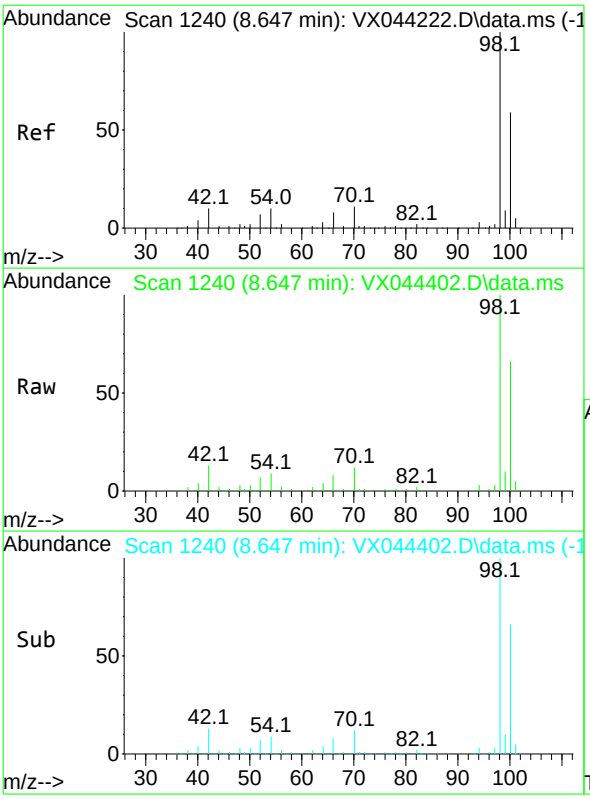


#44
Trichloroethene
Concen: 512.923 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Tgt Ion:130 Resp: 694778

Ion	Ratio	Lower	Upper
130	100		
95	100.6	0.0	201.4



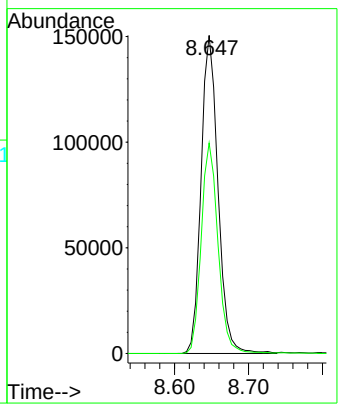


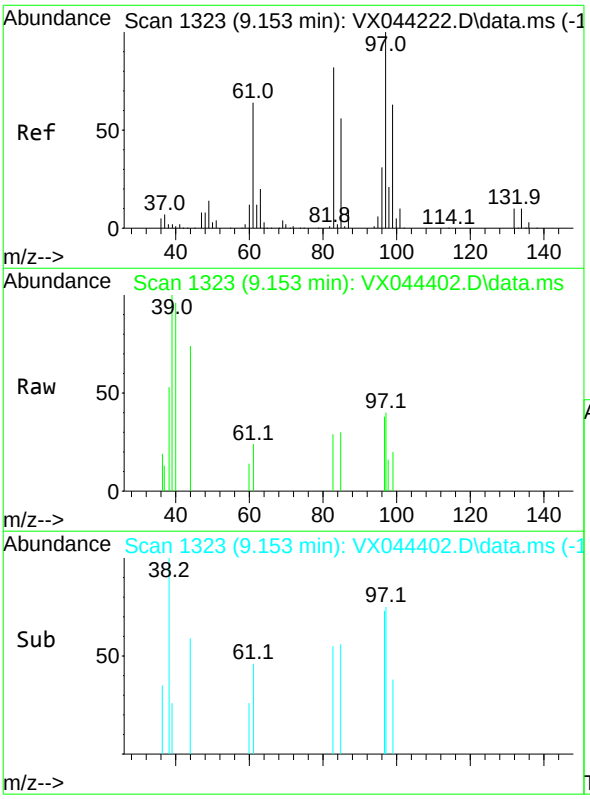
#50
Toluene-d8
Concen: 51.222 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216

Tgt Ion: 98 Resp: 239168

Ion	Ratio	Lower	Upper
98	100		
100	65.6	51.5	77.3

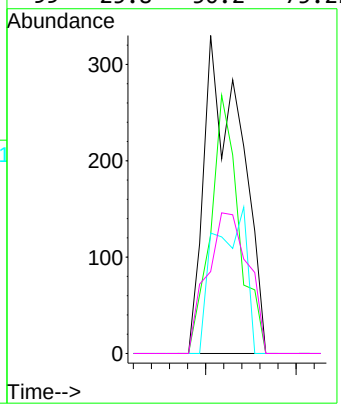


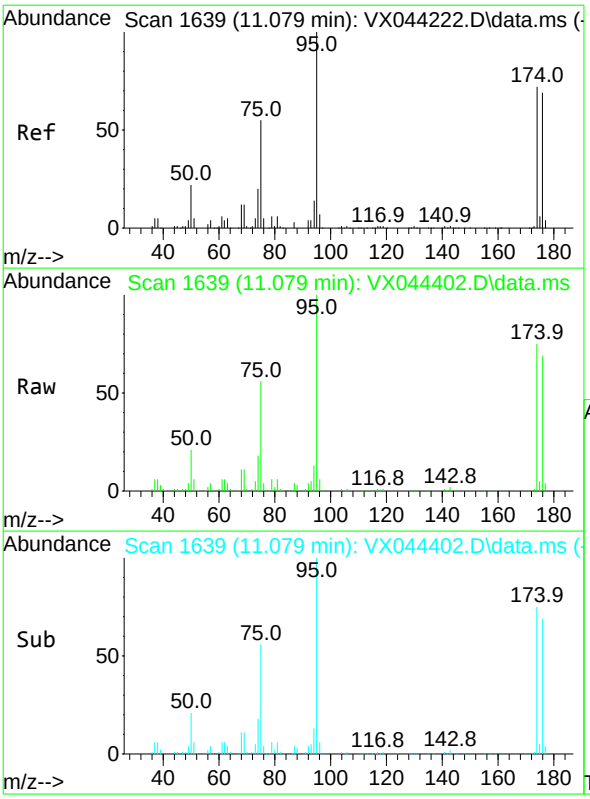


#55
1,1,2-Trichloroethane
Concen: 0.343 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. -0.000 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Tgt Ion: 97 Resp: 465

Ion	Ratio	Lower	Upper
97	100		
83	37.3	65.3	97.9#
85	37.9	44.6	67.0#
99	25.8	50.2	75.2#



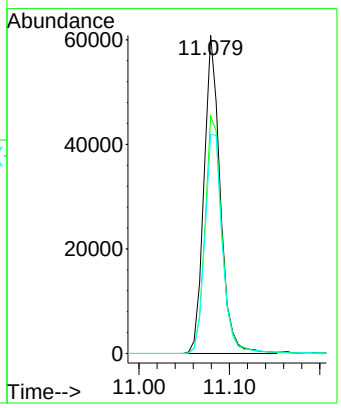


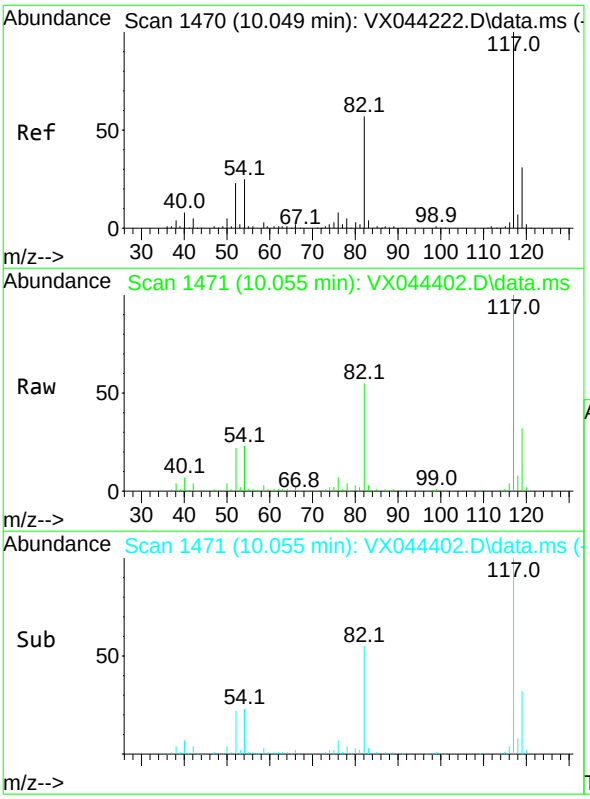
#62
4-Bromofluorobenzene
Concen: 46.476 ug/l
RT: 11.079 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216

Tgt Ion: 95 Resp: 75829

Ion	Ratio	Lower	Upper
95	100		
174	78.8	0.0	145.8
176	74.9	0.0	137.8

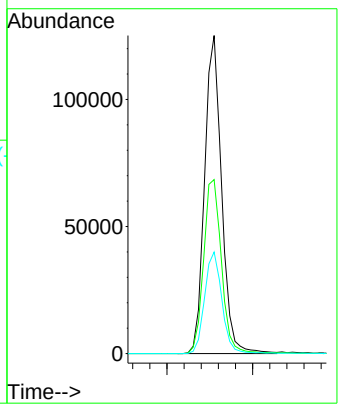


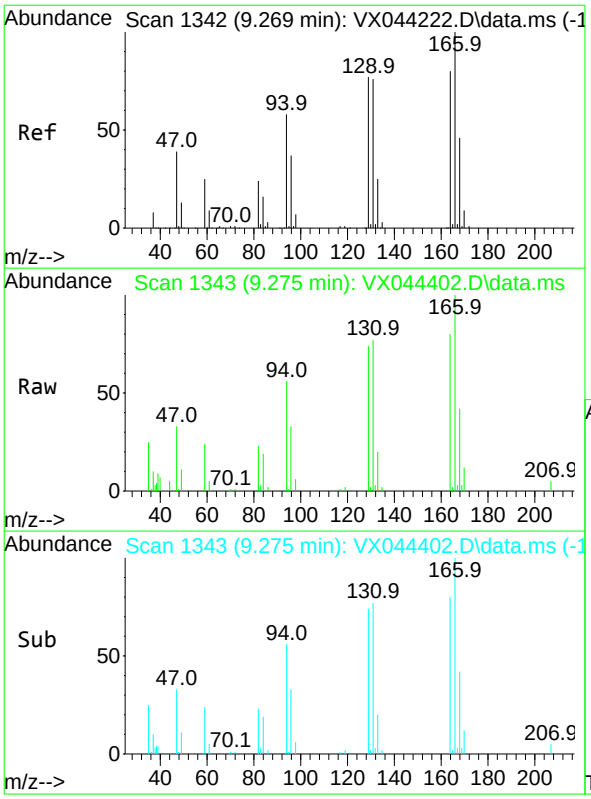


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Tgt Ion:117 Resp: 172545

Ion	Ratio	Lower	Upper
117	100		
82	54.7	45.8	68.8
119	31.9	25.0	37.4



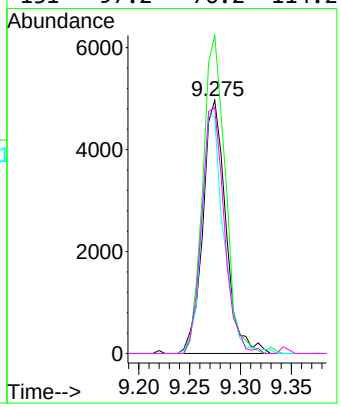


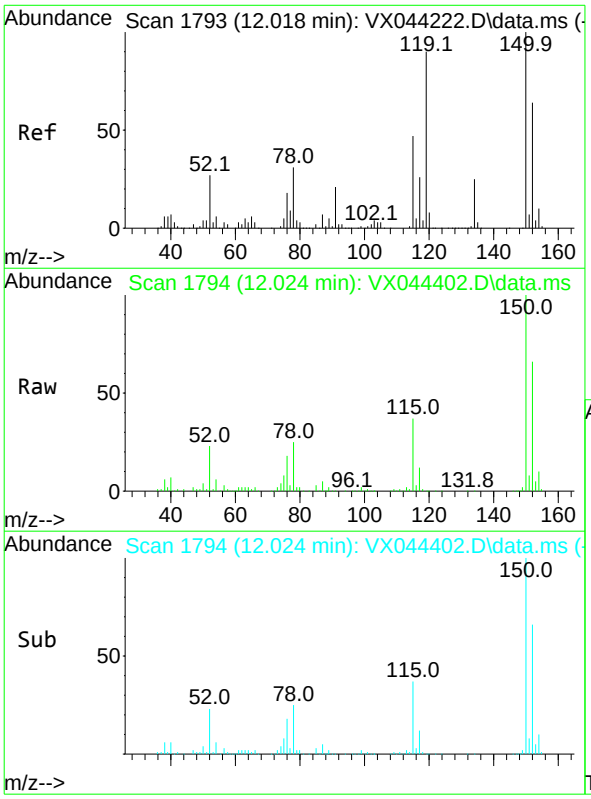
#64
Tetrachloroethene
Concen: 6.795 ug/l
RT: 9.275 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216

Tgt Ion:164 Resp: 7782

Ion	Ratio	Lower	Upper
164	100		
166	125.6	100.4	150.6
129	93.5	77.2	115.8
131	97.2	76.2	114.2

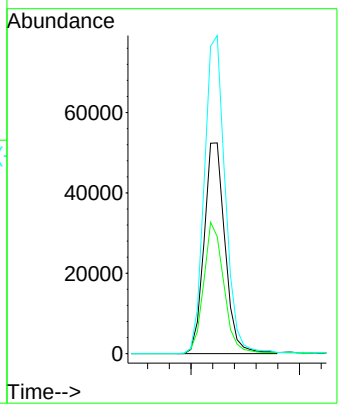




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044402.D
Acq: 19 Dec 2024 00:37

Tgt Ion:152 Resp: 70176

Ion	Ratio	Lower	Upper
152	100		
115	60.5	44.5	133.3
150	150.8	0.0	353.8



Raw Data: **VX044450.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW4-20241216DL	SDG No.:	P5317
Lab Sample ID:	P5317-02DL	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044450.D	20		12/20/24 14:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.0	UD	4.20	10.0	20.0	ug/L
74-87-3	Chloromethane	10.0	UD	7.00	10.0	20.0	ug/L
75-01-4	Vinyl Chloride	15.0	UD	6.80	15.0	20.0	ug/L
74-83-9	Bromomethane	75.0	UD	27.2	75.0	100	ug/L
75-00-3	Chloroethane	15.0	UD	11.2	15.0	20.0	ug/L
75-69-4	Trichlorofluoromethane	10.0	UD	6.80	10.0	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	11.9	JD	5.00	10.0	20.0	ug/L
75-35-4	1,1-Dichloroethene	15.0	UD	5.20	15.0	20.0	ug/L
67-64-1	Acetone	75.0	UD	27.8	75.0	100	ug/L
75-15-0	Carbon Disulfide	15.0	UD	6.40	15.0	20.0	ug/L
1634-04-4	Methyl tert-butyl Ether	10.0	UD	3.20	10.0	20.0	ug/L
79-20-9	Methyl Acetate	15.0	UD	12.0	15.0	20.0	ug/L
75-09-2	Methylene Chloride	10.0	UD	6.40	10.0	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	10.0	UD	5.00	10.0	20.0	ug/L
75-34-3	1,1-Dichloroethane	10.0	UD	4.60	10.0	20.0	ug/L
110-82-7	Cyclohexane	50.0	UD	32.4	50.0	100	ug/L
78-93-3	2-Butanone	50.0	UD	26.0	50.0	100	ug/L
56-23-5	Carbon Tetrachloride	10.0	UD	5.00	10.0	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	15.0	UD	5.00	15.0	20.0	ug/L
74-97-5	Bromochloromethane	10.0	UD	3.60	10.0	20.0	ug/L
67-66-3	Chloroform	10.0	UD	5.20	10.0	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	10.0	UD	3.80	10.0	20.0	ug/L
108-87-2	Methylcyclohexane	10.0	UD	3.80	10.0	20.0	ug/L
71-43-2	Benzene	10.0	UD	3.20	10.0	20.0	ug/L
107-06-2	1,2-Dichloroethane	10.0	UD	4.80	10.0	20.0	ug/L
79-01-6	Trichloroethene	580	D	6.40	15.0	20.0	ug/L
78-87-5	1,2-Dichloropropane	10.0	UD	3.80	10.0	20.0	ug/L
75-27-4	Bromodichloromethane	10.0	UD	4.80	10.0	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	50.0	UD	15.0	50.0	100	ug/L
108-88-3	Toluene	10.0	UD	3.60	10.0	20.0	ug/L

Raw Data: **VX044450.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW4-20241216DL	SDG No.:	P5317
Lab Sample ID:	P5317-02DL	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044450.D	20		12/20/24 14:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	10.0	UD	4.20	10.0	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	10.0	UD	3.60	10.0	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	10.0	UD	4.20	10.0	20.0	ug/L
591-78-6	2-Hexanone	50.0	UD	22.6	50.0	100	ug/L
124-48-1	Dibromochloromethane	10.0	UD	3.60	10.0	20.0	ug/L
106-93-4	1,2-Dibromoethane	10.0	UD	3.20	10.0	20.0	ug/L
127-18-4	Tetrachloroethene	9.60	JD	5.00	10.0	20.0	ug/L
108-90-7	Chlorobenzene	10.0	UD	2.60	10.0	20.0	ug/L
100-41-4	Ethyl Benzene	10.0	UD	3.20	10.0	20.0	ug/L
179601-23-1	m/p-Xylenes	20.0	UD	6.20	20.0	40.0	ug/L
95-47-6	o-Xylene	10.0	UD	2.80	10.0	20.0	ug/L
100-42-5	Styrene	10.0	UD	3.20	10.0	20.0	ug/L
75-25-2	Bromoform	10.0	UD	4.20	10.0	20.0	ug/L
98-82-8	Isopropylbenzene	10.0	UD	2.60	10.0	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	10.0	UD	5.40	10.0	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	10.0	UD	4.80	10.0	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	10.0	UD	5.40	10.0	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	10.0	UD	3.80	10.0	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	15.0	UD	9.20	15.0	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.0	UD	8.40	10.0	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	15.0	UD	10.2	15.0	20.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.7		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	50.5		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	123000	5.55				
540-36-3	1,4-Difluorobenzene	220000	6.757				
3114-55-4	Chlorobenzene-d5	193000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	79200	12.024				

Raw Data: **VX044450.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW4-20241216DL	SDG No.:	P5317
Lab Sample ID:	P5317-02DL	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044450.D	20		12/20/24 14:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044450.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044450.D
Acq On : 20 Dec 2024 14:23
Operator : JC/MD
Sample : P5317-02DL 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216DL

Quant Time: Dec 20 22:25:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

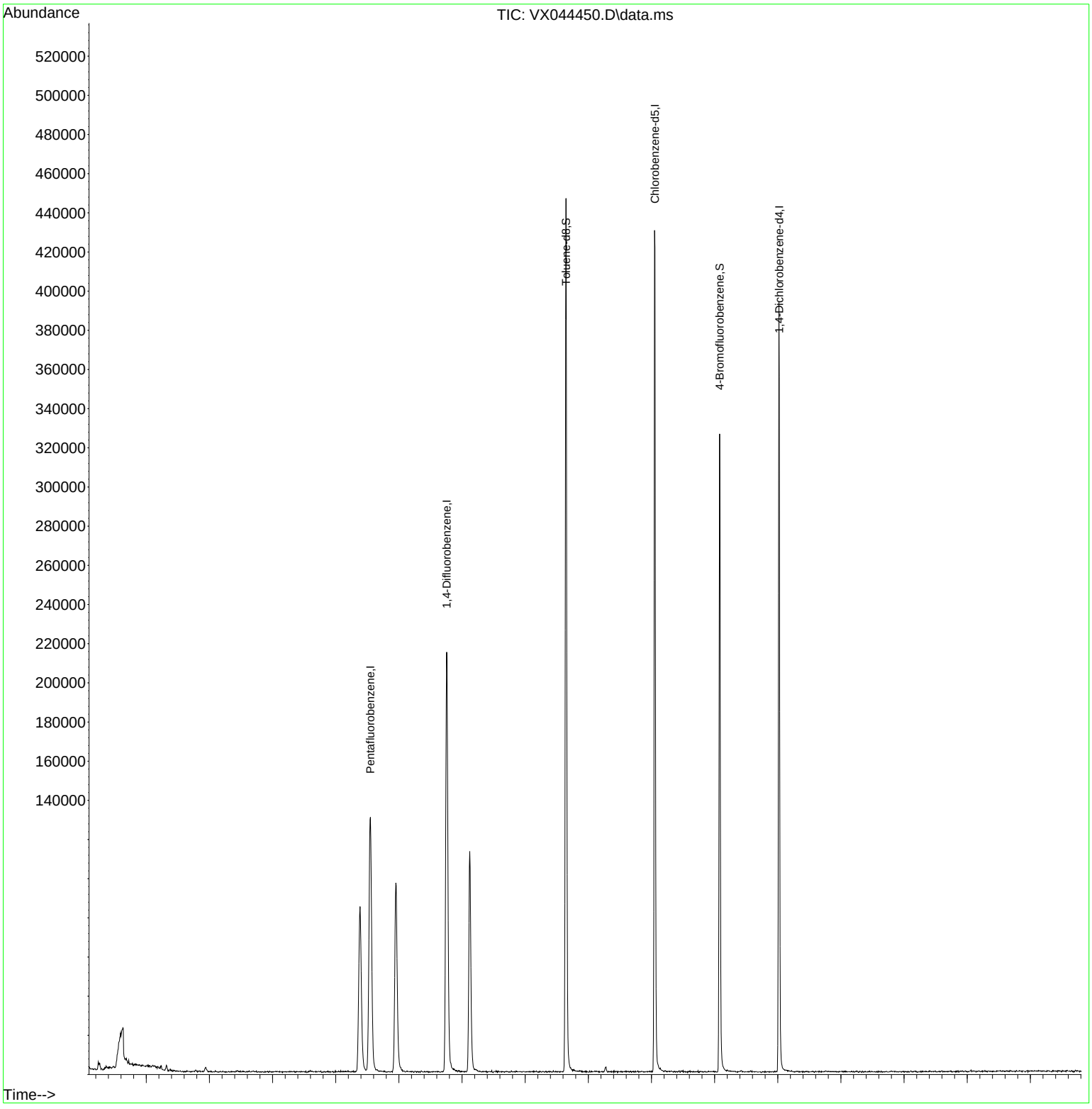
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	123451	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	220282	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	193072	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	79195	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	92439	42.707	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 85.420%			
35) Dibromofluoromethane	5.385	113	72250	47.357	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.720%			
50) Toluene-d8	8.647	98	259723	50.460	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.920%			
62) 4-Bromofluorobenzene	11.079	95	86015	47.825	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.660%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.325	101	896	0.595	ug/l	94
44) Trichloroethene	7.123	130	42960	28.771	ug/l	91
64) Tetrachloroethene	9.281	164	617	0.481	ug/l #	55

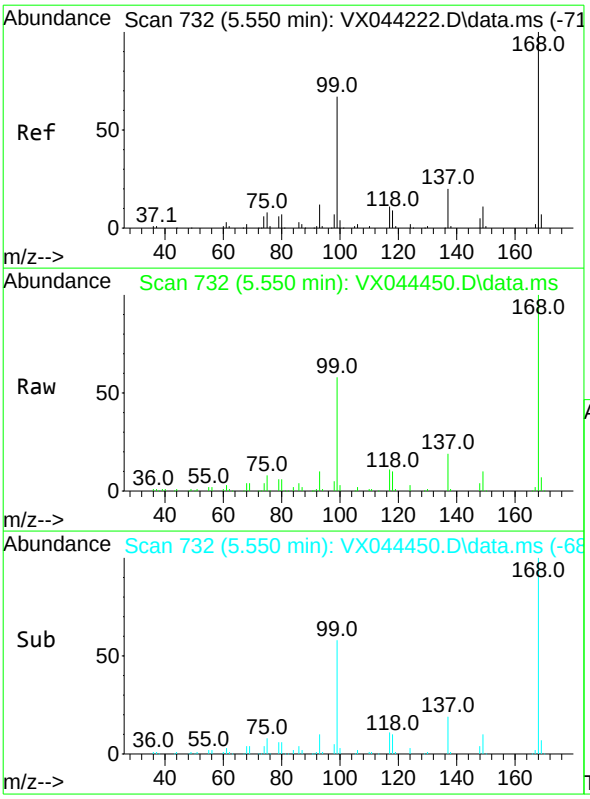
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044450.D
Acq On : 20 Dec 2024 14:23
Operator : JC/MD
Sample : P5317-02DL 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216DL

Quant Time: Dec 20 22:25:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



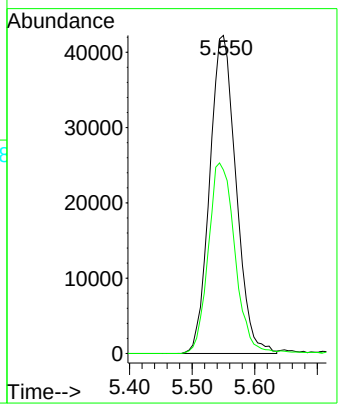


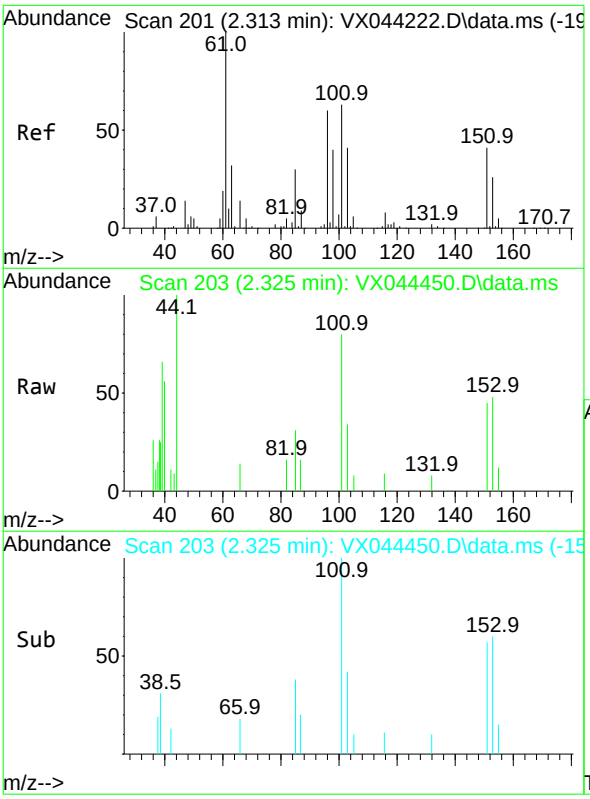
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044450.D
Acq: 20 Dec 2024 14:23

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216DL

Tgt Ion:168 Resp: 123451

Ion	Ratio	Lower	Upper
168	100		
99	57.7	53.4	80.0

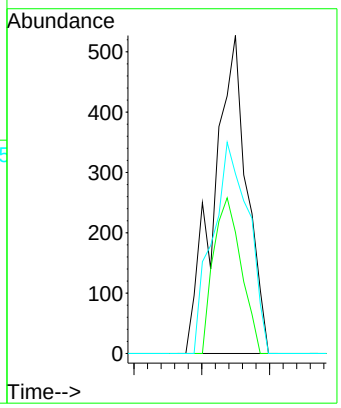


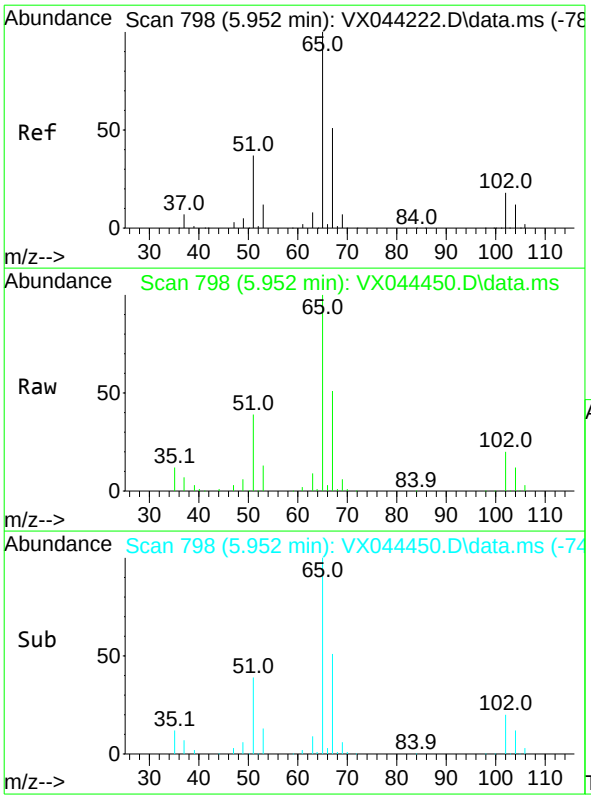


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.595 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.012 min
Lab File: VX044450.D
Acq: 20 Dec 2024 14:23

Tgt Ion:101 Resp: 896

Ion	Ratio	Lower	Upper
101	100		
85	41.0	38.5	57.7
151	72.2	55.8	83.6



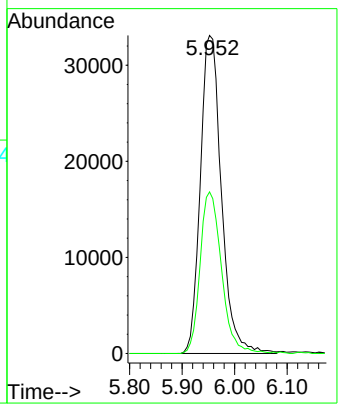


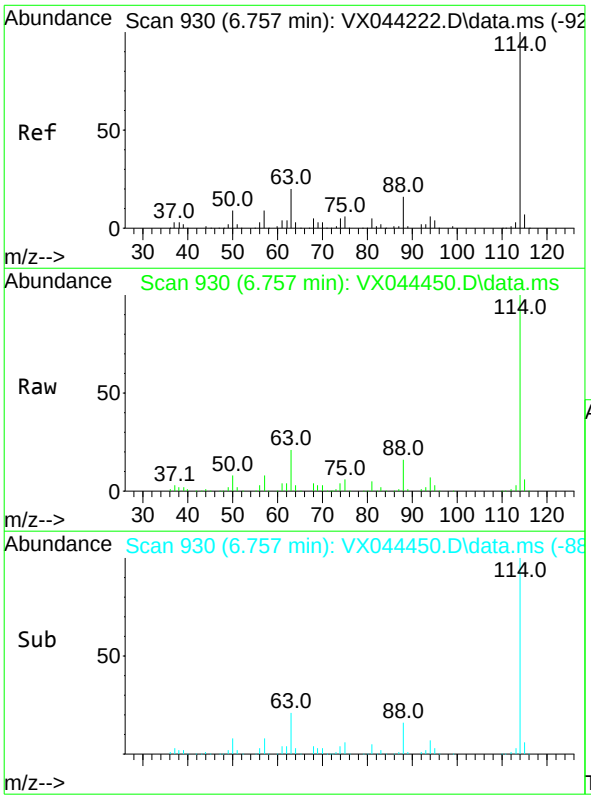
#33
1,2-Dichloroethane-d4
Concen: 42.707 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044450.D
Acq: 20 Dec 2024 14:23

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216DL

Tgt Ion: 65 Resp: 92439

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	101.6

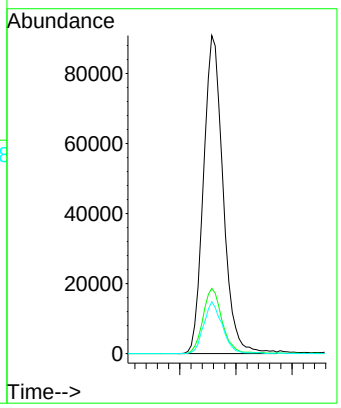


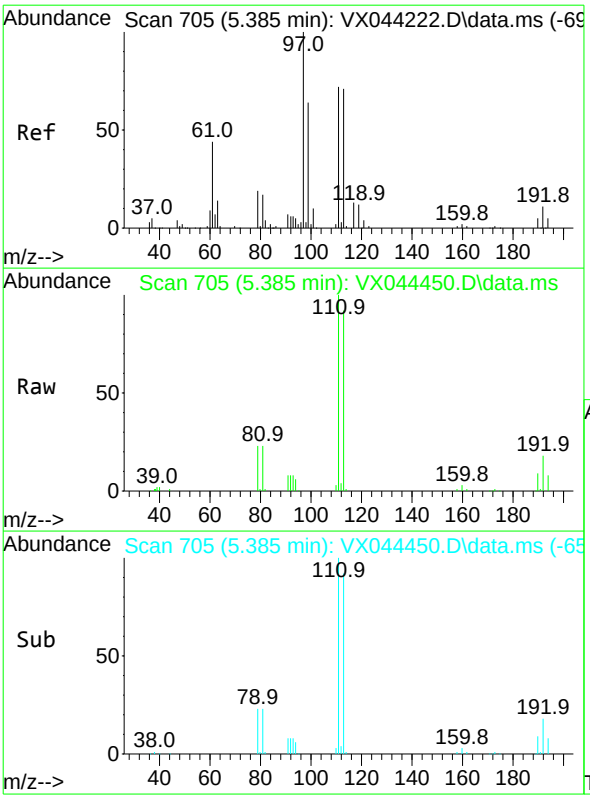


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044450.D
Acq: 20 Dec 2024 14:23

Tgt Ion:114 Resp: 220282

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	40.6
88	16.3	0.0	31.8



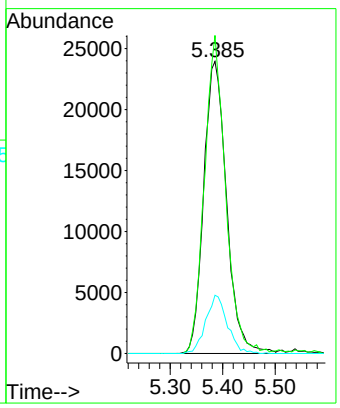


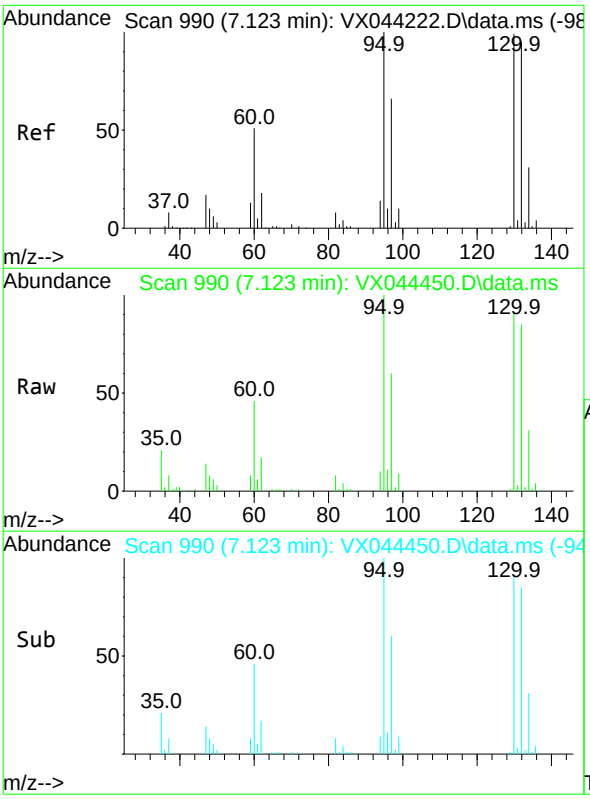
#35
Dibromofluoromethane
Concen: 47.357 ug/l
RT: 5.385 min Scan# 70
Delta R.T. 0.000 min
Lab File: VX044450.D
Acq: 20 Dec 2024 14:23

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216DL

Tgt Ion:113 Resp: 72250

Ion	Ratio	Lower	Upper
113	100		
111	101.3	80.4	120.6
192	18.8	13.3	19.9

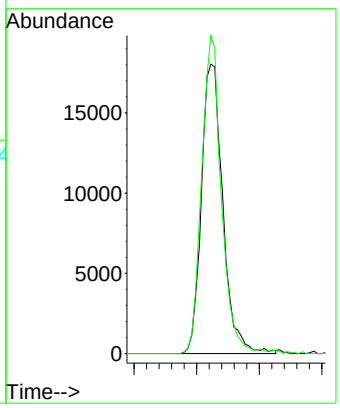


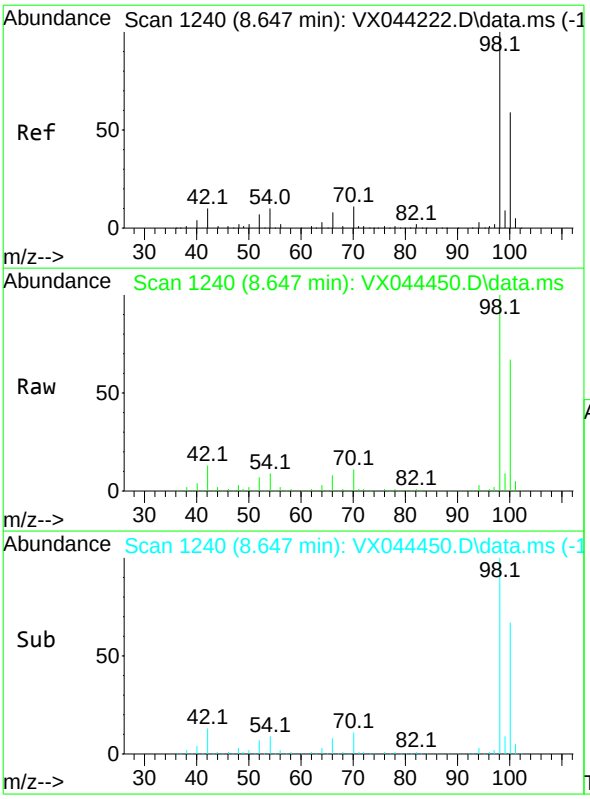


#44
Trichloroethene
Concen: 28.771 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044450.D
Acq: 20 Dec 2024 14:23

Tgt Ion:130 Resp: 42960

Ion	Ratio	Lower	Upper
130	100		
95	109.9	0.0	201.4



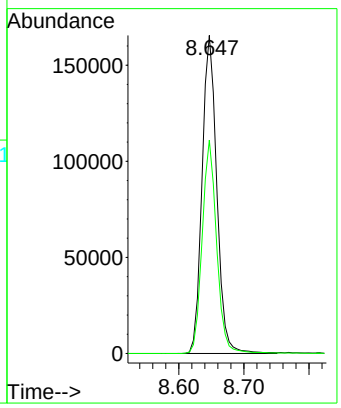


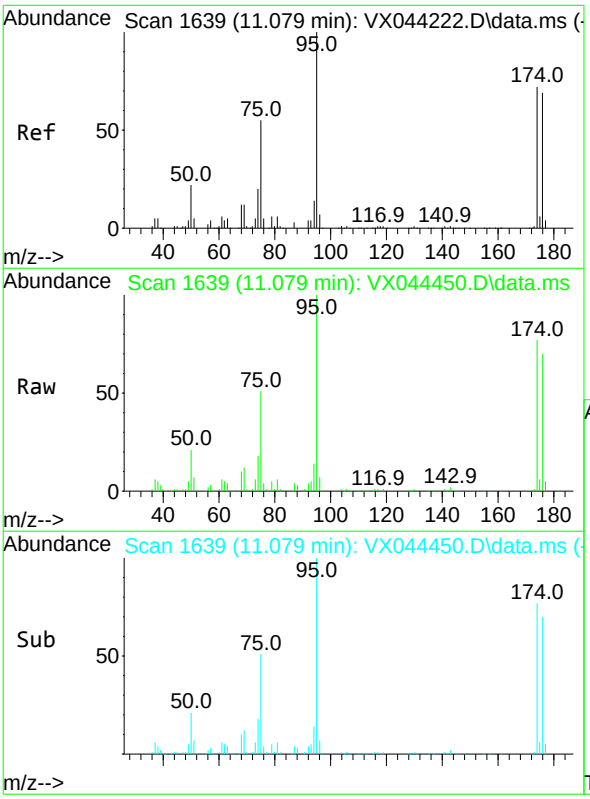
#50
Toluene-d8
Concen: 50.460 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044450.D
Acq: 20 Dec 2024 14:23

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216DL

Tgt Ion: 98 Resp: 259723

Ion	Ratio	Lower	Upper
98	100		
100	66.1	51.5	77.3

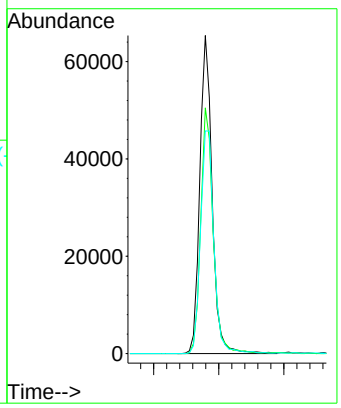


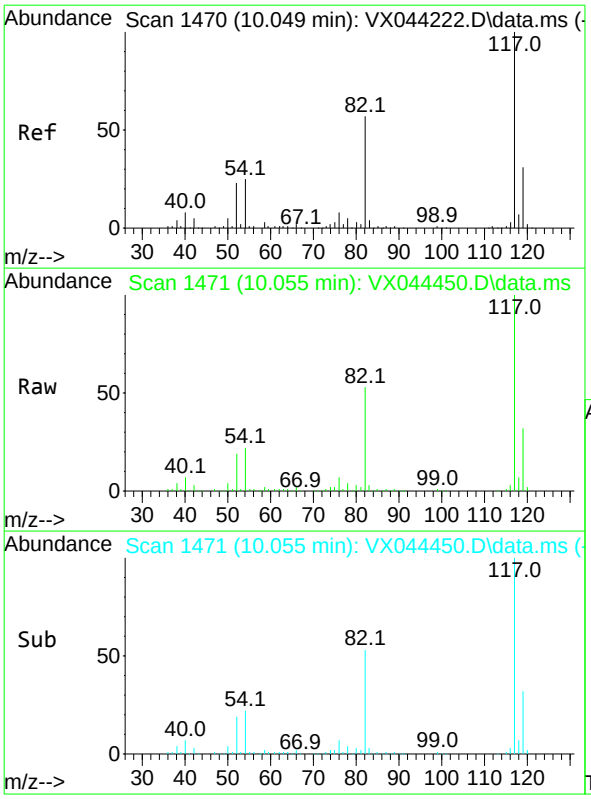


#62
4-Bromofluorobenzene
Concen: 47.825 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044450.D
Acq: 20 Dec 2024 14:23

Tgt Ion: 95 Resp: 86015

Ion	Ratio	Lower	Upper
95	100		
174	77.7	0.0	145.8
176	75.9	0.0	137.8



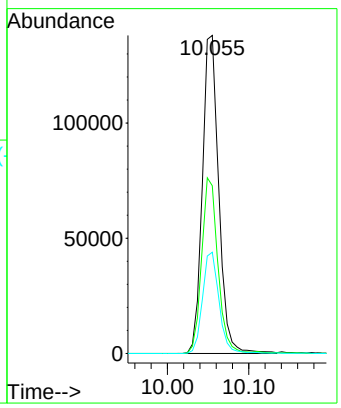


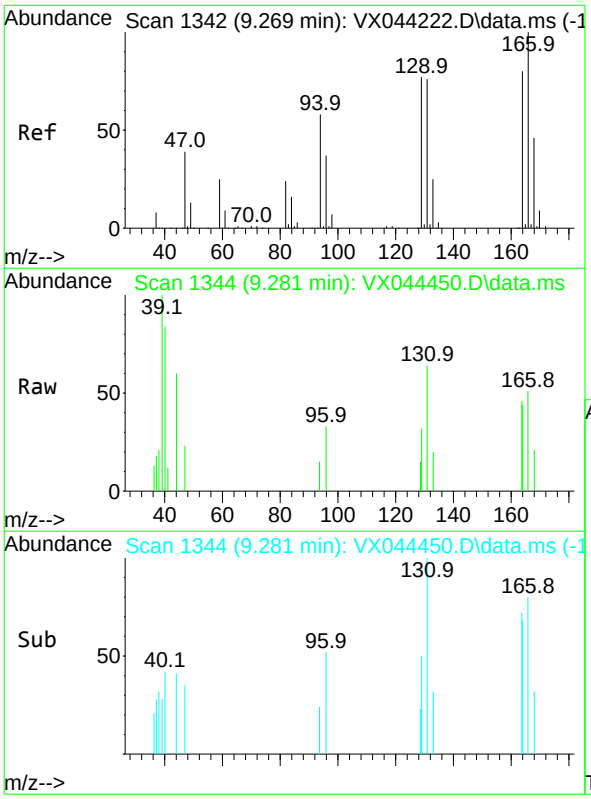
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044450.D
Acq: 20 Dec 2024 14:23

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216DL

Tgt Ion:117 Resp: 193072

Ion	Ratio	Lower	Upper
117	100		
82	52.7	45.8	68.8
119	31.8	25.0	37.4

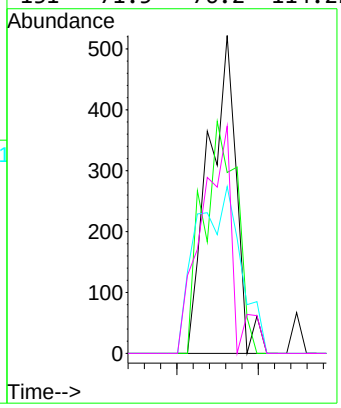


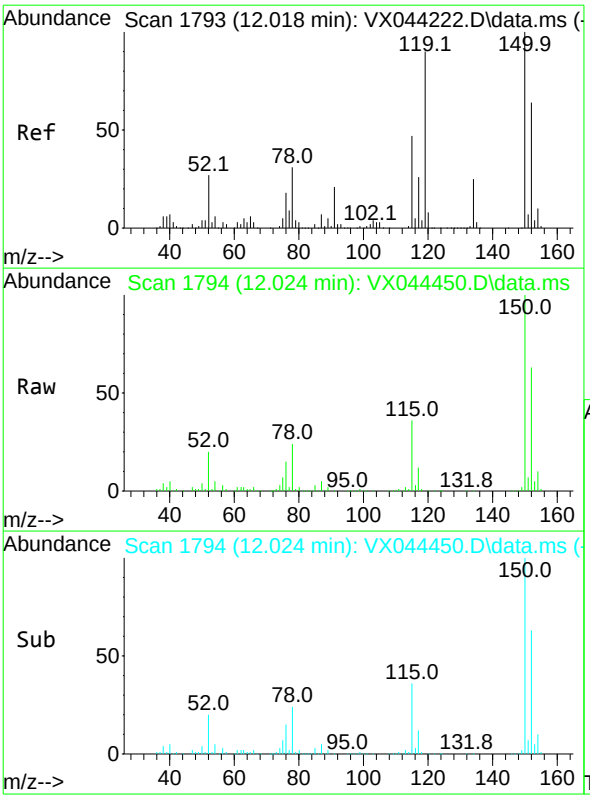


#64
Tetrachloroethene
Concen: 0.481 ug/l
RT: 9.281 min Scan# 1344
Delta R.T. 0.012 min
Lab File: VX044450.D
Acq: 20 Dec 2024 14:23

Tgt Ion:164 Resp: 617

Ion	Ratio	Lower	Upper
164	100		
166	56.9	100.4	150.6#
129	52.5	77.2	115.8#
131	71.5	76.2	114.2#



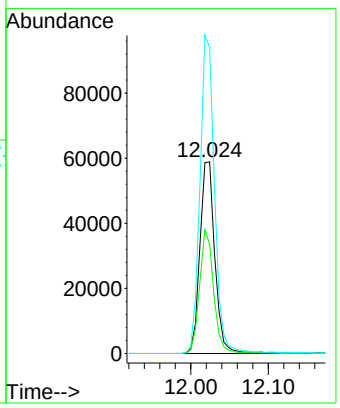


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX044450.D
Acq: 20 Dec 2024 14:23

Instrument :
MSVOA_X
ClientSampleId :
RW4-20241216DL

Tgt Ion:152 Resp: 79195

Ion	Ratio	Lower	Upper
152	100		
115	60.7	44.5	133.3
150	160.8	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT191D1-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044452.D	1		12/20/24 15:09	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.81	J	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.35	J	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2.10		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.71	J	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.36	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.63	J	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	11.0		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT191D1-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044452.D	1		12/20/24 15:09	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.4		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	50.5		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	119000	5.55				
540-36-3	1,4-Difluorobenzene	211000	6.757				
3114-55-4	Chlorobenzene-d5	181000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	72800	12.018				

Raw Data: **VX044452.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT191D1-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044452.D	1		12/20/24 15:09	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044452.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044452.D
Acq On : 20 Dec 2024 15:09
Operator : JC/MD
Sample : P5317-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 20 22:26:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	118996	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	210803	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	181303	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	72773	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	88475	42.406	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 84.820%			
35) Dibromofluoromethane	5.385	113	68921	47.206	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.420%			
50) Toluene-d8	8.647	98	248897	50.531	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.060%			
62) 4-Bromofluorobenzene	11.079	95	79060	45.935	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.860%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	1489	0.809	ug/l	94
3) Chloromethane	1.295	50	621	0.353	ug/l #	78
9) 1,1,2-Trichlorotrifluo...	2.319	101	3044	2.096	ug/l	93
12) 1,1-Dichloroethene	2.300	96	945	0.709	ug/l #	93
16) Acetone	2.386	43	833	0.979	ug/l	92
20) Methylene Chloride	2.788	84	575	0.360	ug/l #	64
30) Chloroform	5.087	83	1985m	0.634	ug/l	
44) Trichloroethene	7.129	130	15656	10.957	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VX044452.D**

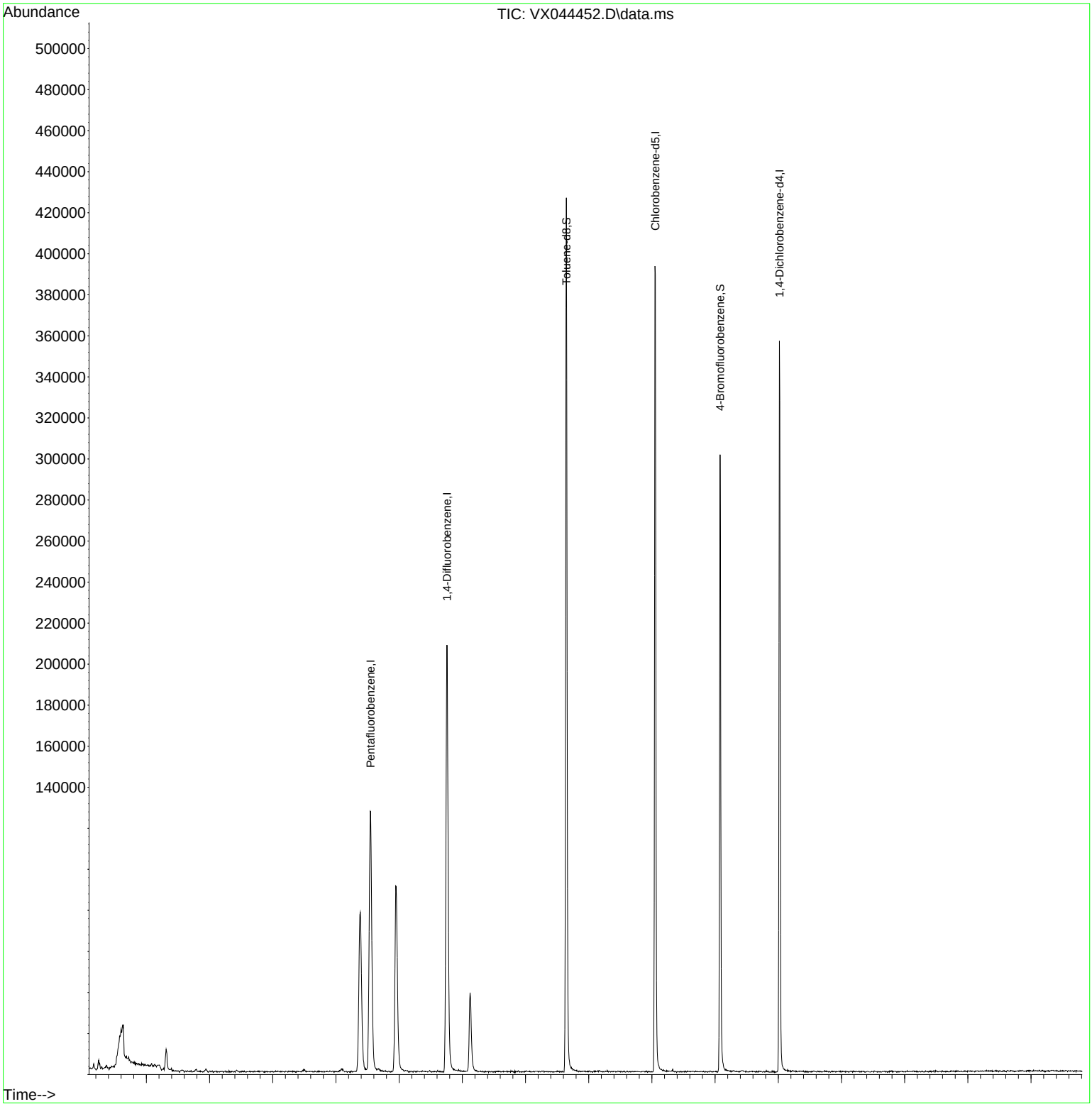
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044452.D
Acq On : 20 Dec 2024 15:09
Operator : JC/MD
Sample : P5317-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

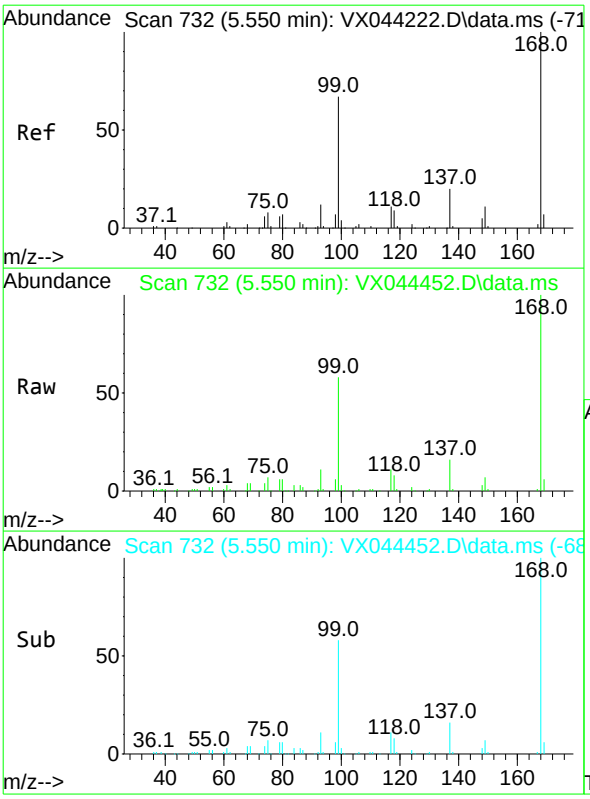
Quant Time: Dec 20 22:26:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

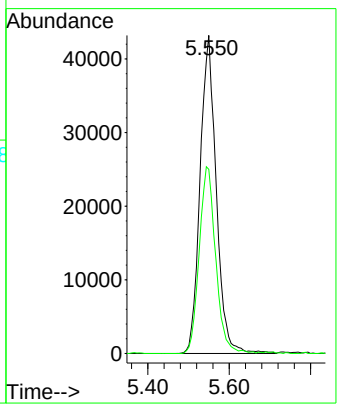




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion:168 Resp: 118996

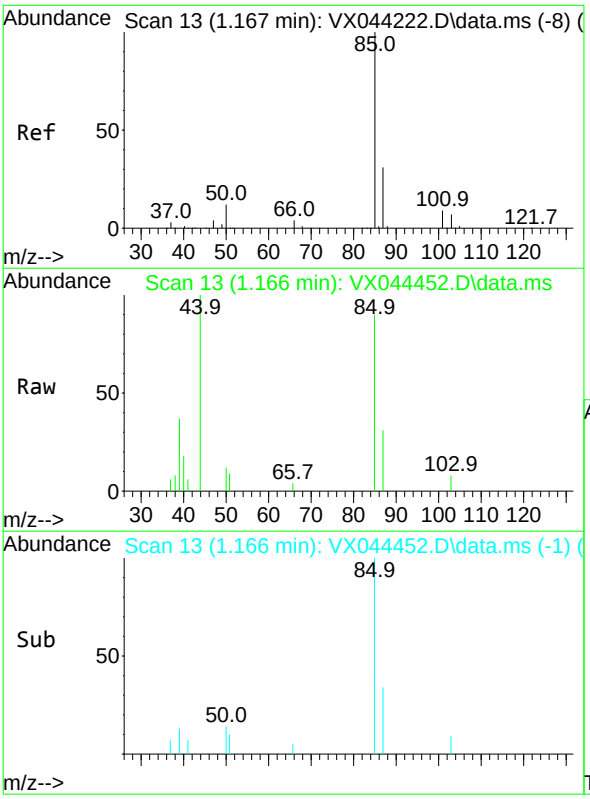
Ion	Ratio	Lower	Upper
168	100		
99	57.9	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Manual Integrations
APPROVED

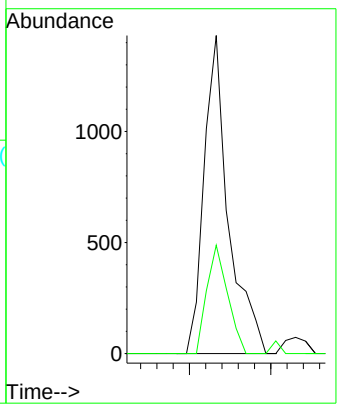
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

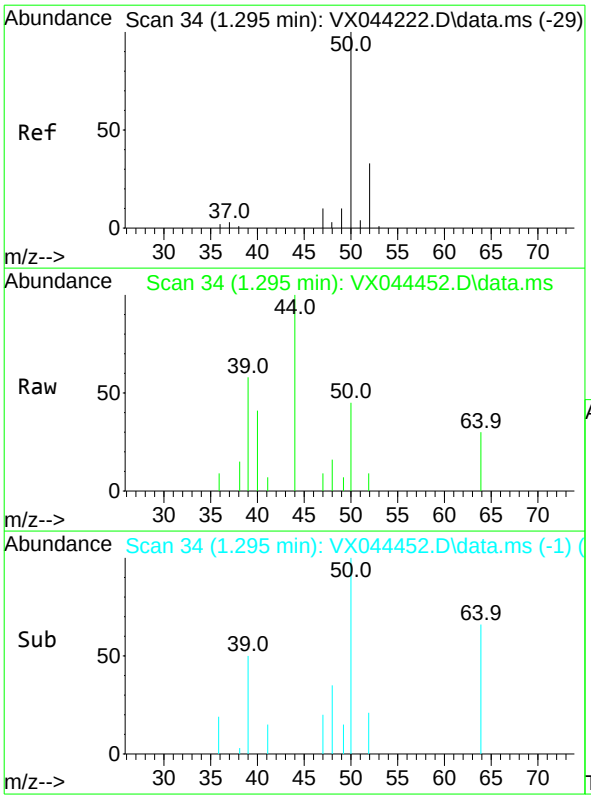


#2
Dichlorodifluoromethane
Concen: 0.809 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 85 Resp: 1489

Ion	Ratio	Lower	Upper
85	100		
87	34.1	15.4	46.4





#3
Chloromethane
Concen: 0.353 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

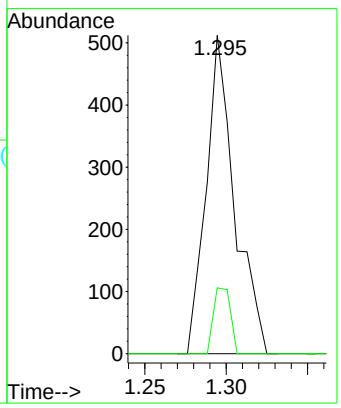
Tgt Ion: 50 Resp: 621

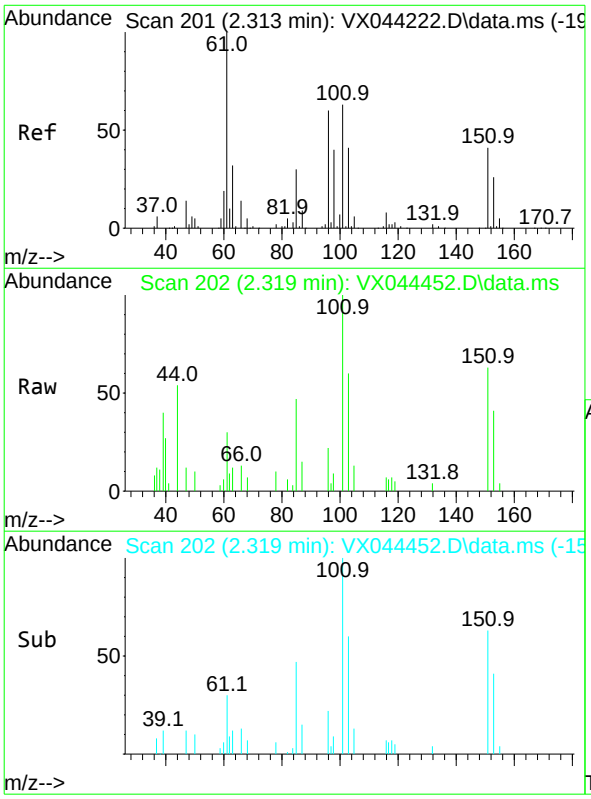
Ion	Ratio	Lower	Upper
50	100		
52	20.7	26.5	39.7#

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

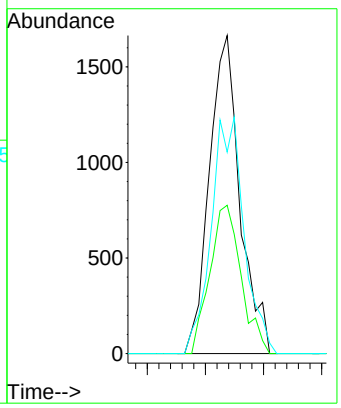


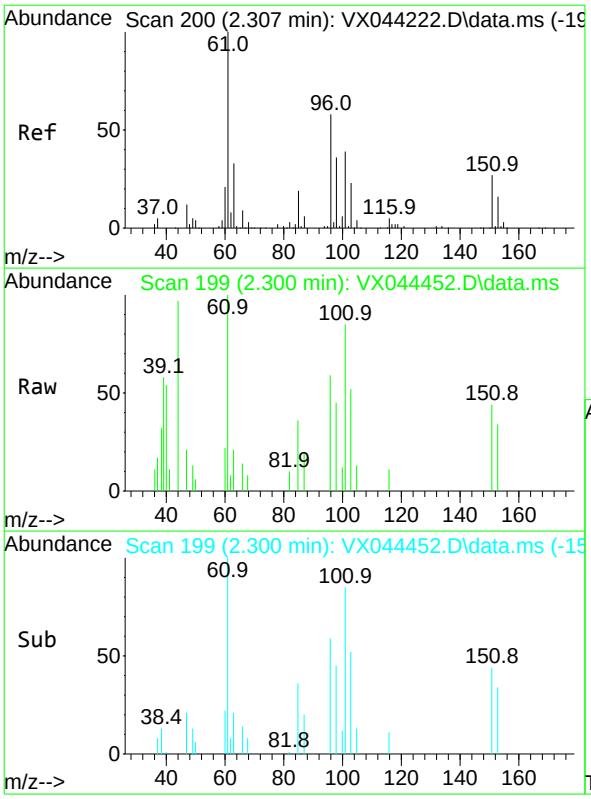


#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.096 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion:101 Resp: 3044

Ion	Ratio	Lower	Upper
101	100		
85	47.7	38.5	57.7
151	79.6	55.8	83.6

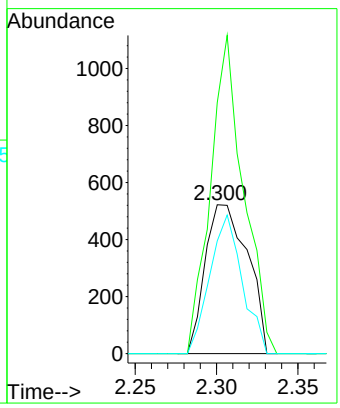




#12
1,1-Dichloroethene
Concen: 0.709 ug/l
RT: 2.300 min Scan# 19
Delta R.T. -0.006 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 96 Resp: 945

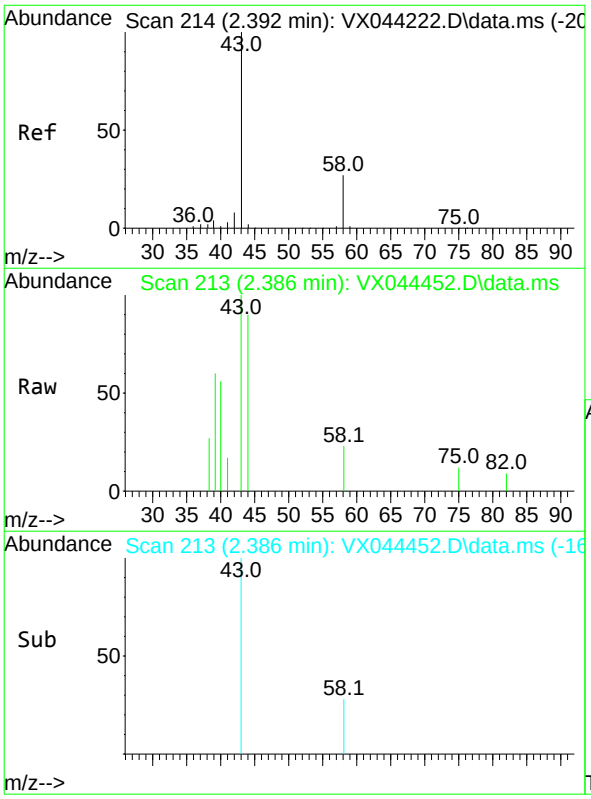
Ion	Ratio	Lower	Upper
96	100		
61	168.6	138.0	207.0
98	75.7	50.0	75.0#



Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Manual Integrations
APPROVED

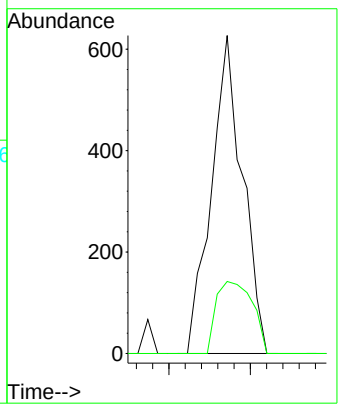
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

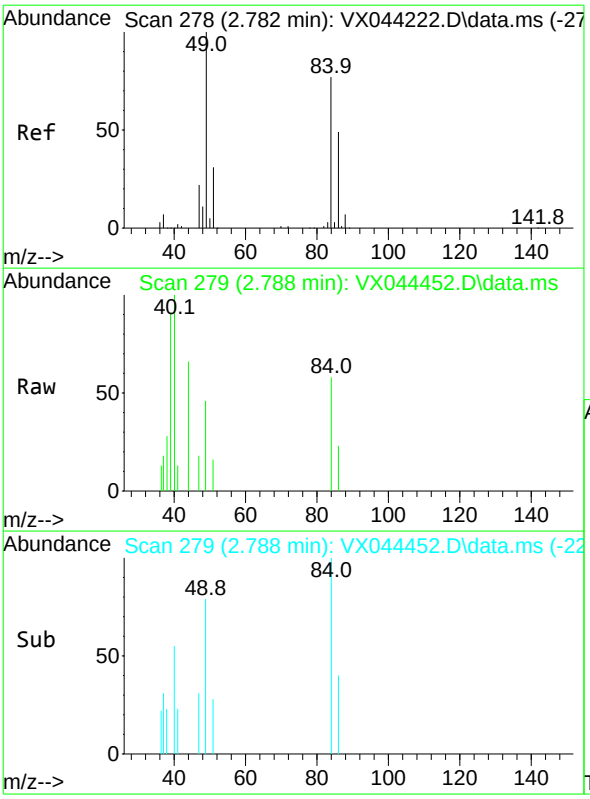


#16
Acetone
Concen: 0.979 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 43 Resp: 833

Ion	Ratio	Lower	Upper
43	100		
58	22.6	21.6	32.4

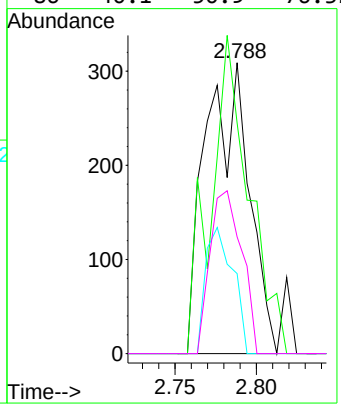




#20
Methylene Chloride
Concen: 0.360 ug/l
RT: 2.788 min Scan# 27
Delta R.T. 0.006 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 84 Resp: 575

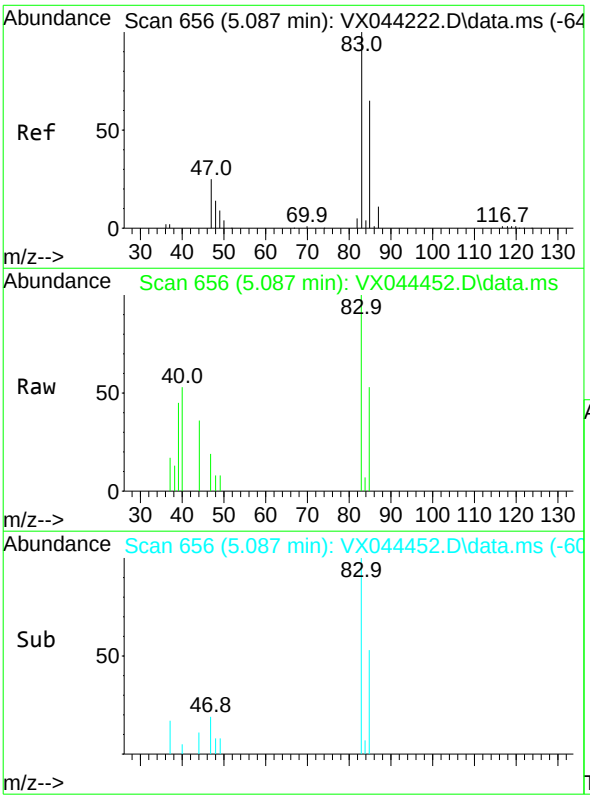
Ion	Ratio	Lower	Upper
84	100		
49	79.3	104.2	156.4#
51	27.5	32.2	48.4#
86	40.1	50.9	76.3#



Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Manual Integrations
APPROVED

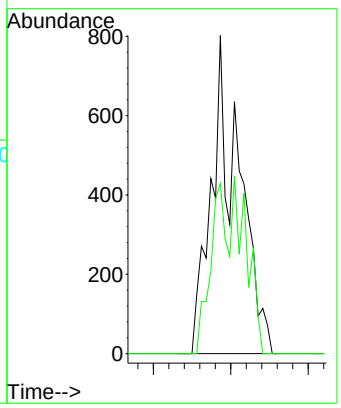
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

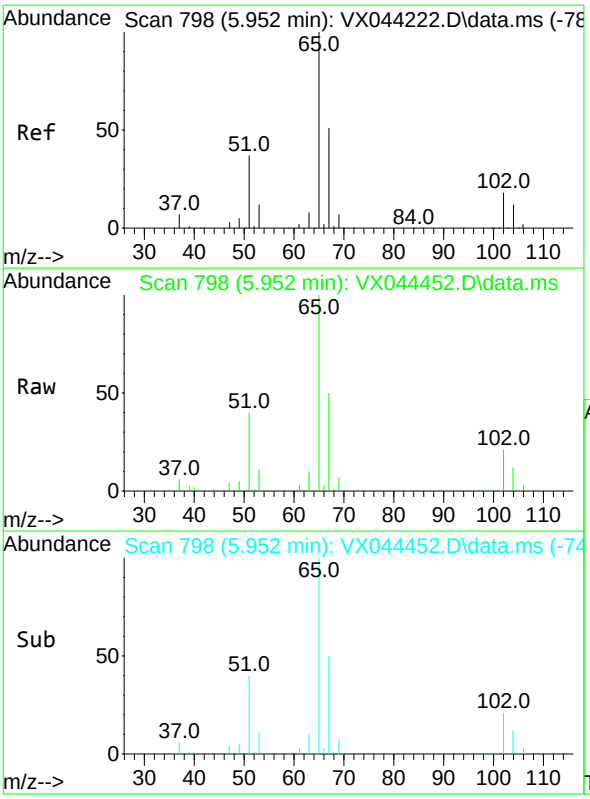


#30
Chloroform
Concen: 0.634 ug/l m
RT: 5.087 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 83 Resp: 1985

Ion	Ratio	Lower	Upper
83	100		
85	53.5	51.6	77.4

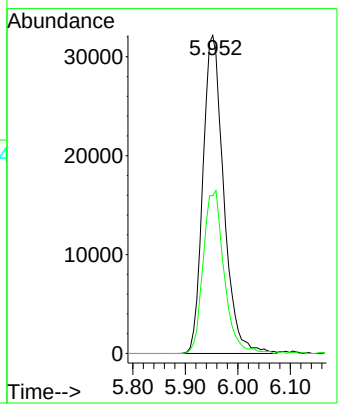




#33
1,2-Dichloroethane-d4
Concen: 42.406 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 65 Resp: 88475

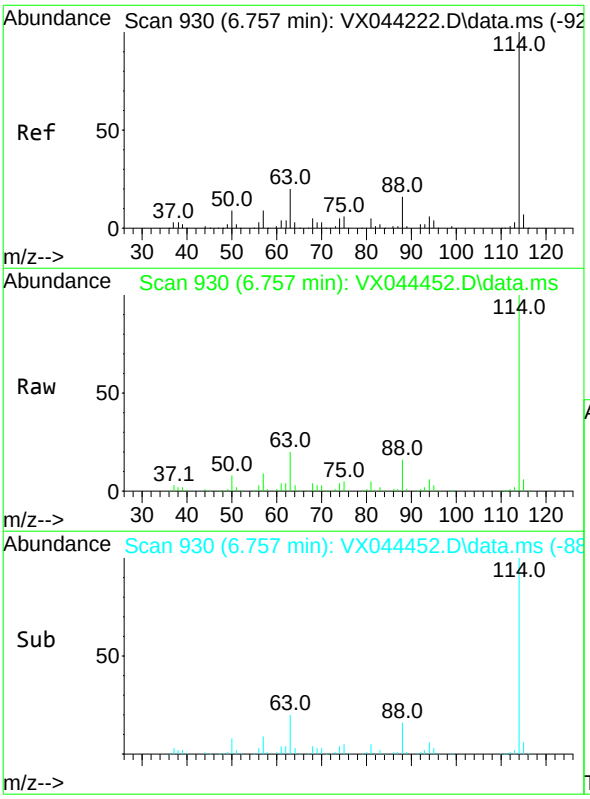
Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Manual Integrations
APPROVED

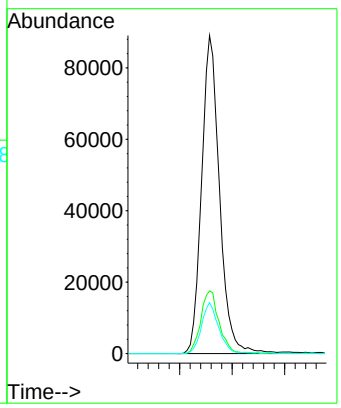
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

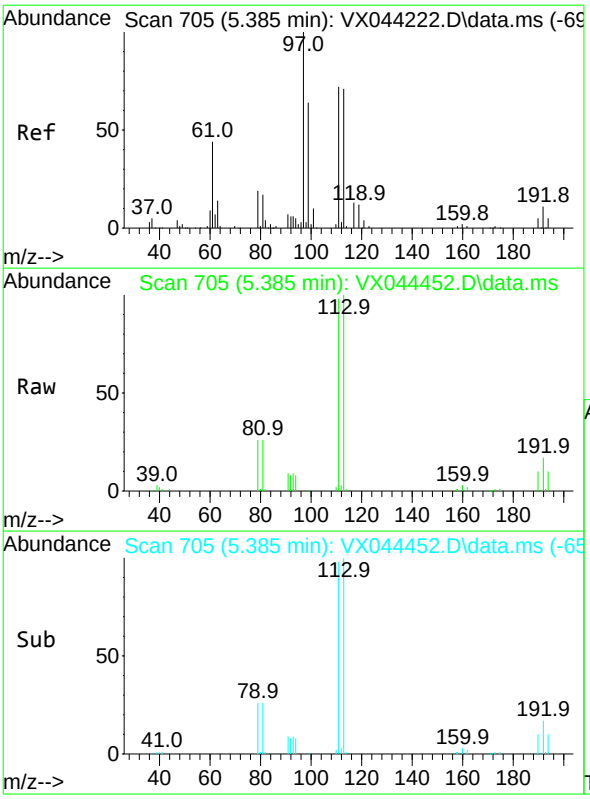


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion:114 Resp: 210803

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	40.6
88	16.0	0.0	31.8





#35
Dibromofluoromethane
Concen: 47.206 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

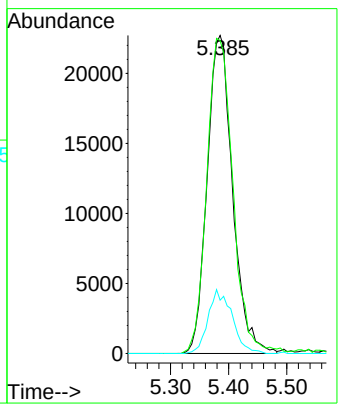
Tgt Ion:113 Resp: 68921

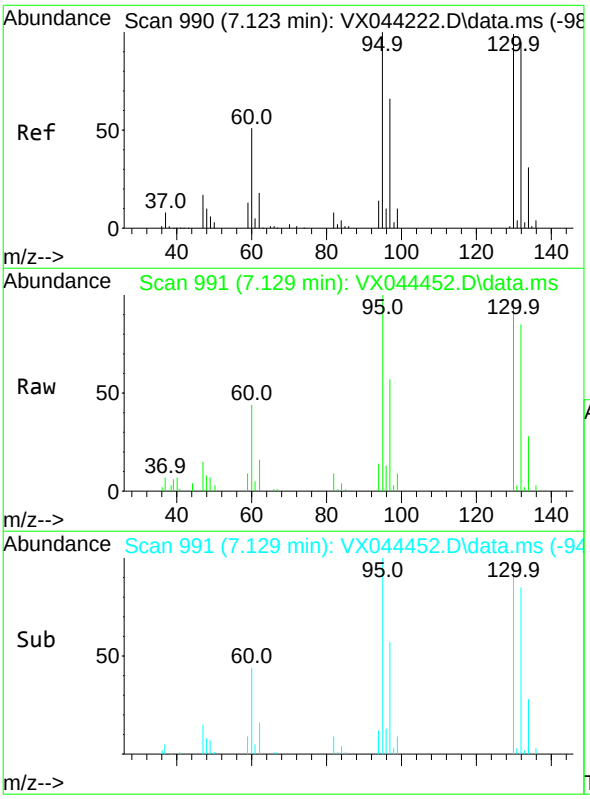
Ion	Ratio	Lower	Upper
113	100		
111	102.0	80.4	120.6
192	19.0	13.3	19.9

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

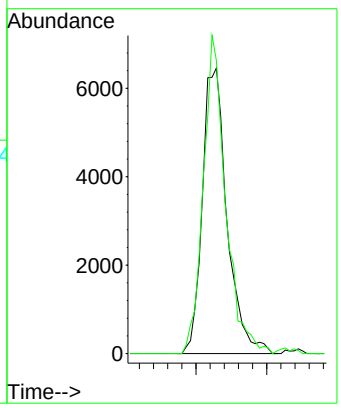


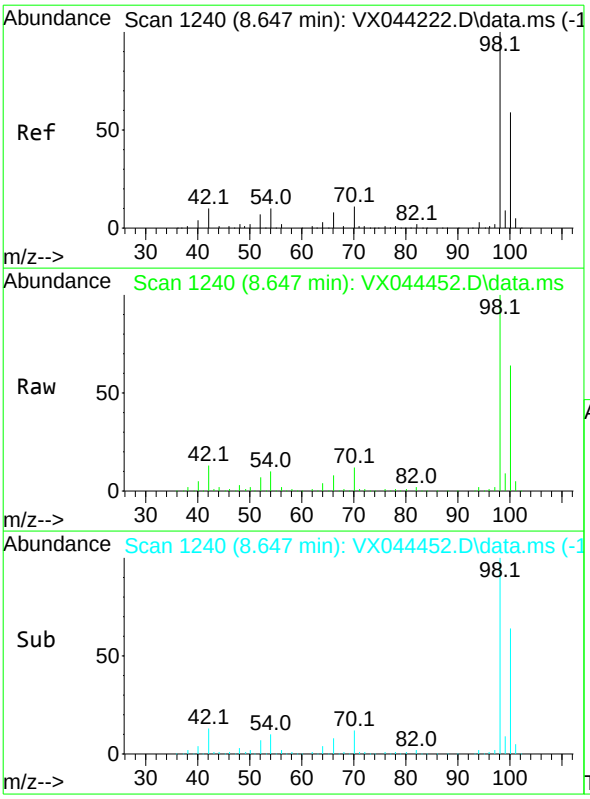


#44
Trichloroethene
Concen: 10.957 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion:130 Resp: 15656

Ion	Ratio	Lower	Upper
130	100		
95	102.7	0.0	201.4





#50
Toluene-d8
Concen: 50.531 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

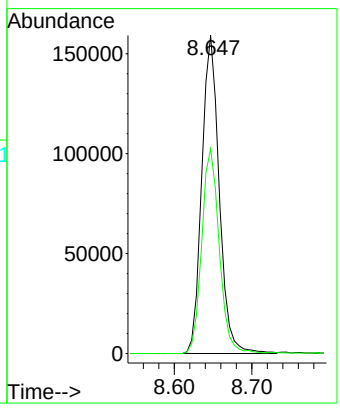
Tgt Ion: 98 Resp: 248897

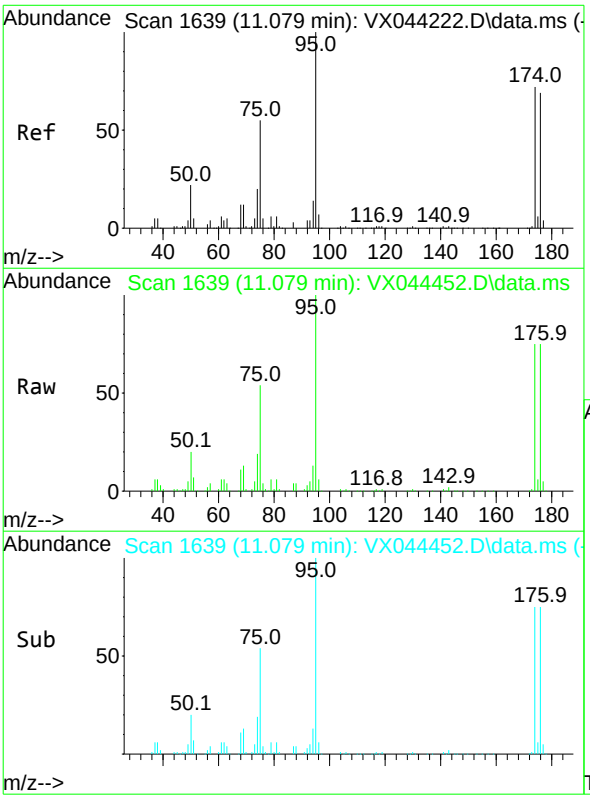
Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.5	77.3

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

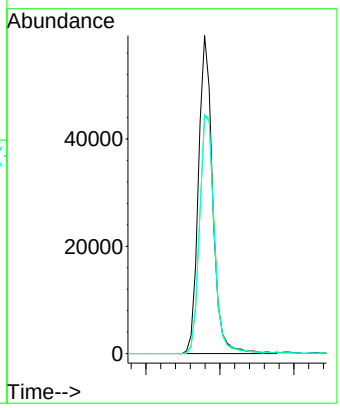


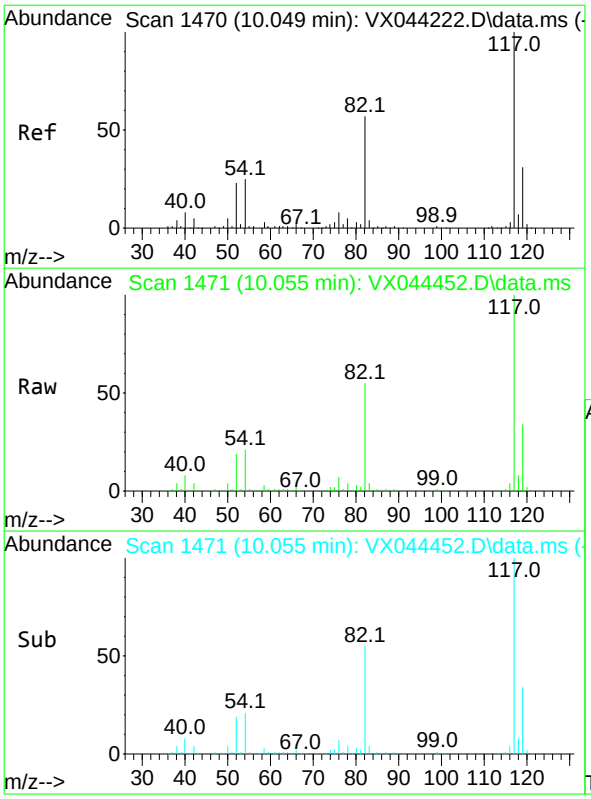


#62
4-Bromofluorobenzene
Concen: 45.935 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 95 Resp: 79060

Ion	Ratio	Lower	Upper
95	100		
174	78.1	0.0	145.8
176	77.8	0.0	137.8

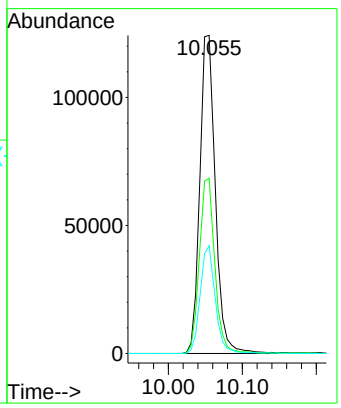




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion:117 Resp: 181303

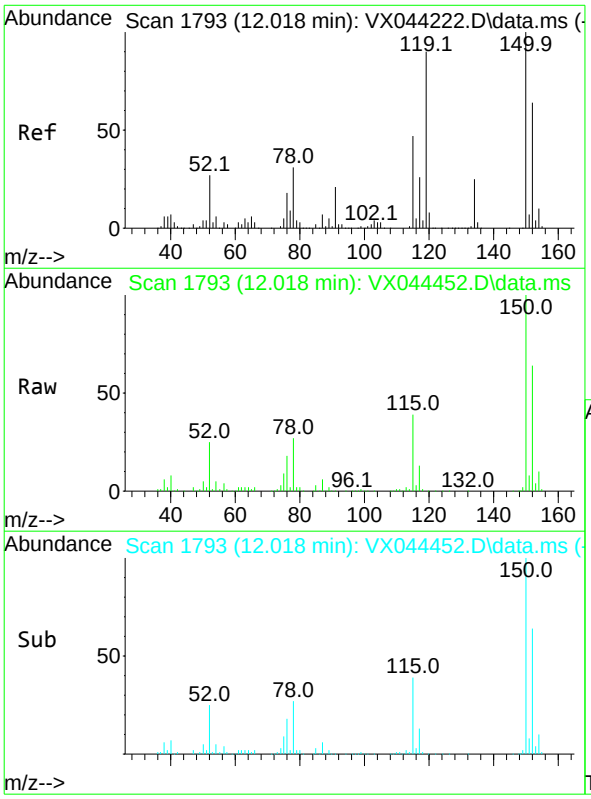
Ion	Ratio	Lower	Upper
117	100		
82	55.1	45.8	68.8
119	33.9	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Manual Integrations
APPROVED

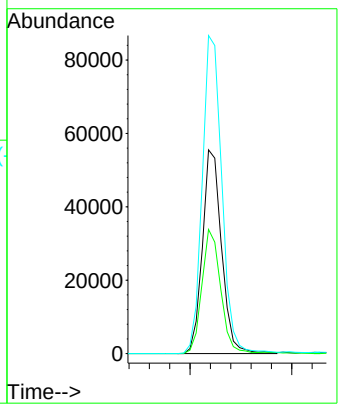
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion:152 Resp: 72773

Ion	Ratio	Lower	Upper
152	100		
115	59.2	44.5	133.3
150	159.3	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT191D2-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044404.D	1		12/19/24 01:24	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.77	J	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	4.80		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.50		0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.50	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.40	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.61	J	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.72	J	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.46	J	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	96.3		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Raw Data: **VX044404.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT191D2-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044404.D	1		12/19/24 01:24	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.34	J	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.5		81 - 118		89%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	51.5		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.0		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	109000	5.55				
540-36-3	1,4-Difluorobenzene	199000	6.757				
3114-55-4	Chlorobenzene-d5	177000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	73200	12.024				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT191D2-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044404.D	1		12/19/24 01:24	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044404.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044404.D
Acq On : 19 Dec 2024 01:24
Operator : JC/MD
Sample : P5317-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 36 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT191D2-20241216

Quant Time: Dec 19 05:07:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

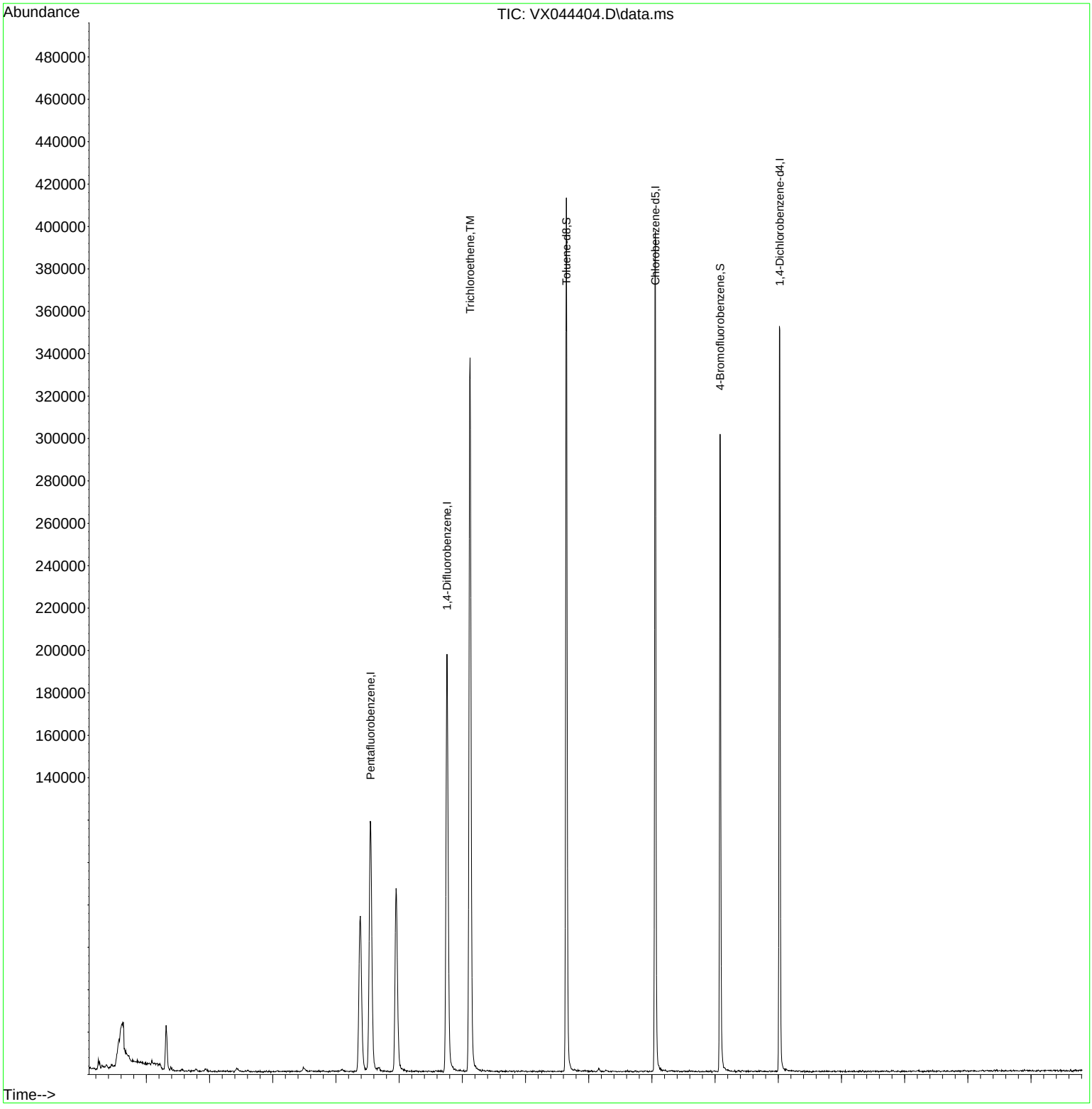
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	108502	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	198842	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	177204	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	73178	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	84577	44.458	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 88.920%			
35) Dibromofluoromethane	5.385	113	65208	47.350	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.700%			
50) Toluene-d8	8.647	98	239506	51.549	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.100%			
62) 4-Bromofluorobenzene	11.079	95	77874	47.967	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.940%			
Target Compounds						Qvalue
3) Chloromethane	1.300	50	1231	0.767	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.312	101	6377	4.816	ug/l	95
12) 1,1-Dichloroethene	2.306	96	1878	1.544	ug/l #	81
16) Acetone	2.392	43	1191	1.536	ug/l #	80
20) Methylene Chloride	2.788	84	587	0.403	ug/l #	73
27) cis-1,2-Dichloroethene	4.489	96	1185	0.722	ug/l	77
30) Chloroform	5.092	83	1305	0.457	ug/l	92
38) Carbon Tetrachloride	5.659	117	1167	0.609	ug/l #	89
44) Trichloroethene	7.123	130	129798	96.301	ug/l	99
55) 1,1,2-Trichloroethane	9.159	97	462	0.343	ug/l #	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

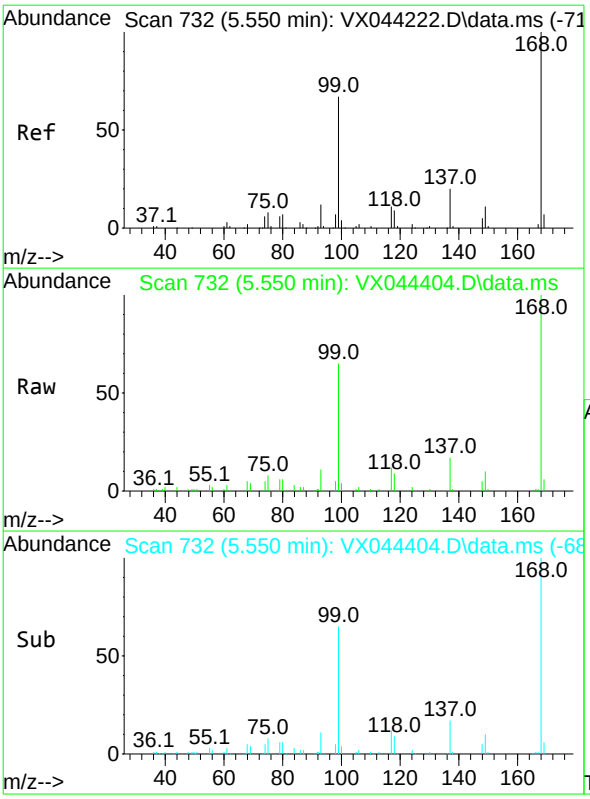
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044404.D
Acq On : 19 Dec 2024 01:24
Operator : JC/MD
Sample : P5317-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 36 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT191D2-20241216

Quant Time: Dec 19 05:07:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



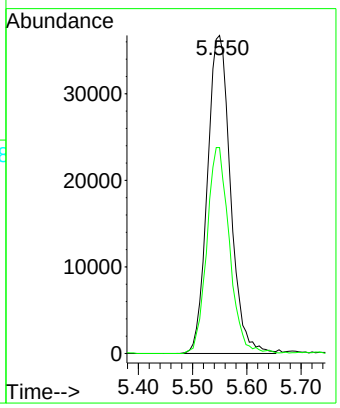
Instrument :
MSVOA_X
ClientSampleId :
TT191D2-20241216

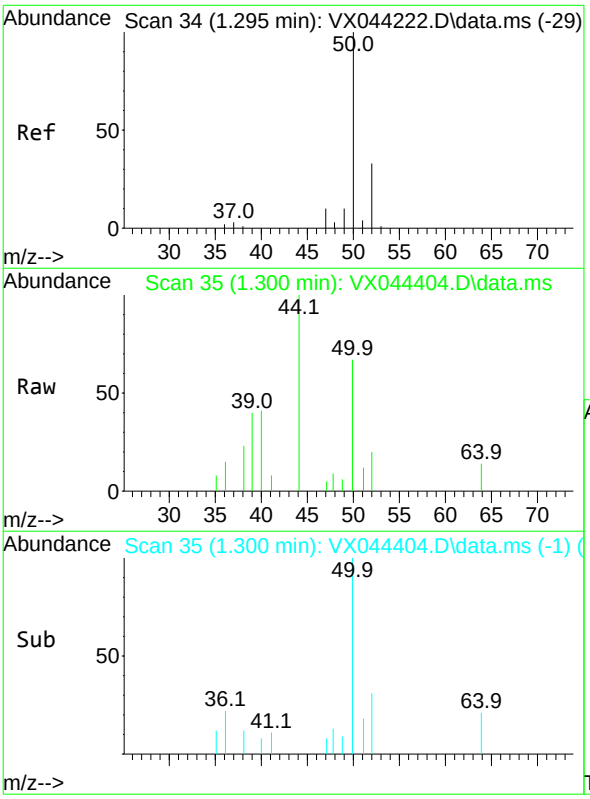


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Tgt Ion:168 Resp: 108502

Ion	Ratio	Lower	Upper
168	100		
99	64.8	53.4	80.0

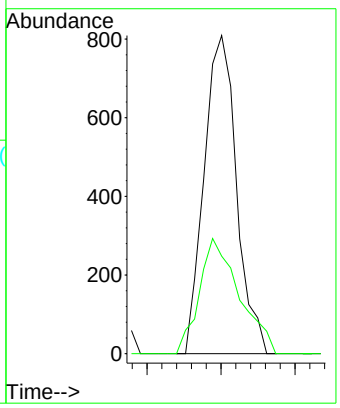


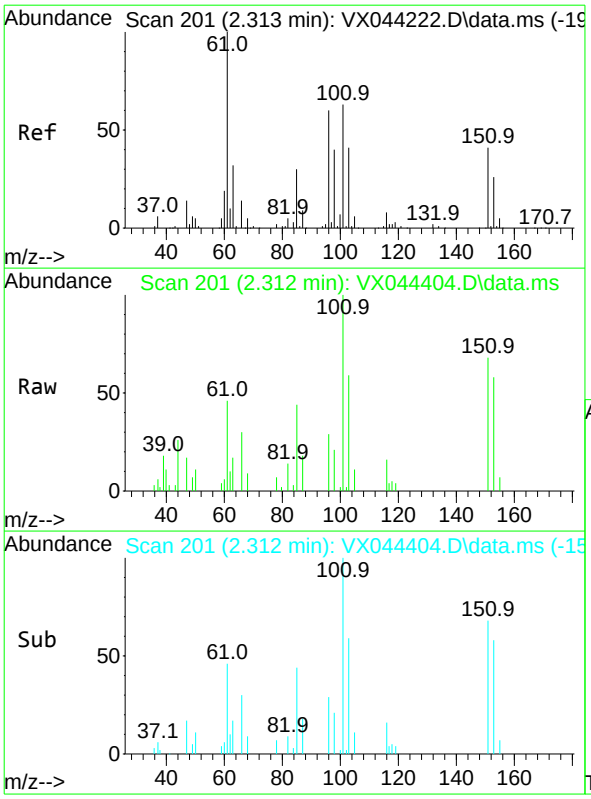


#3
Chloromethane
Concen: 0.767 ug/l
RT: 1.300 min Scan# 35
Delta R.T. 0.006 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Tgt Ion: 50 Resp: 1231

Ion	Ratio	Lower	Upper
50	100		
52	30.7	26.5	39.7



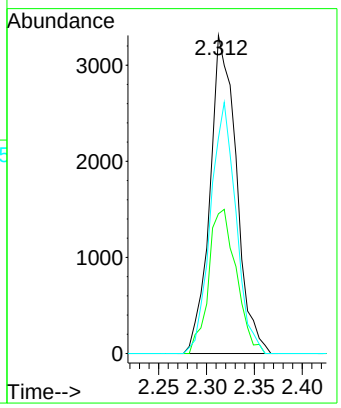


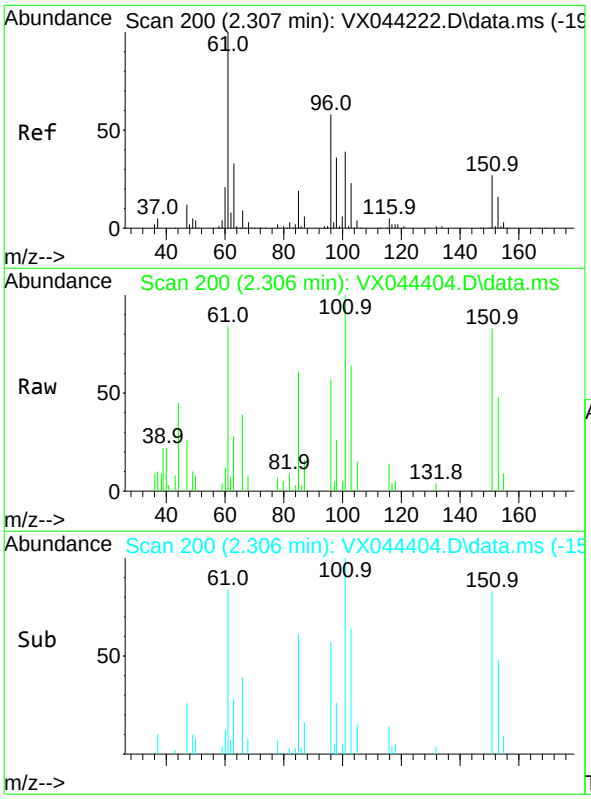
#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.816 ug/l
RT: 2.312 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Instrument :
MSVOA_X
ClientSampleId :
TT191D2-20241216

Tgt Ion:101 Resp: 6377

Ion	Ratio	Lower	Upper
101	100		
85	47.2	38.5	57.7
151	75.6	55.8	83.6

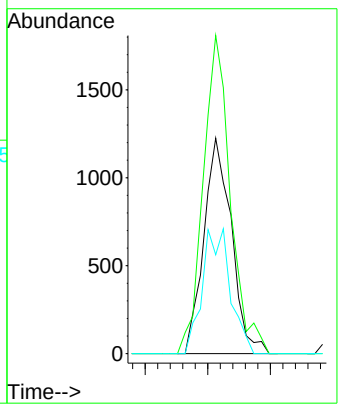


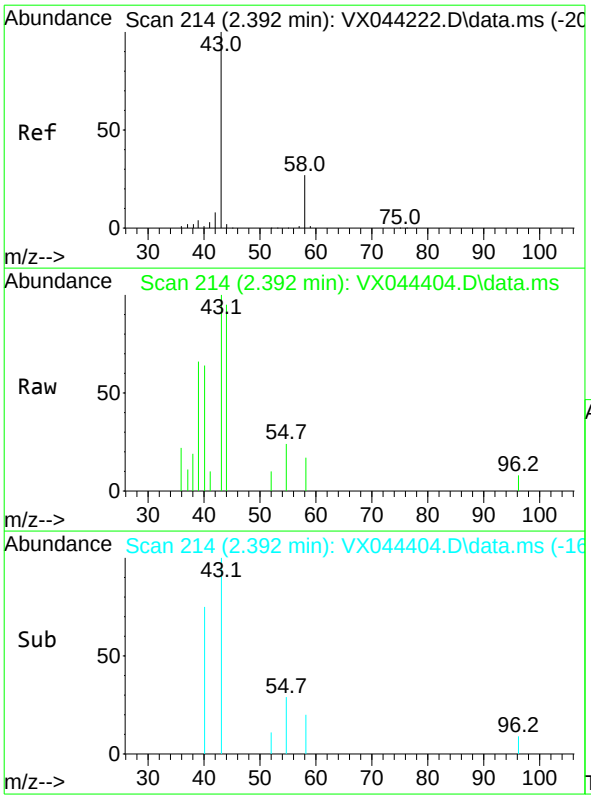


#12
1,1-Dichloroethene
Concen: 1.544 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Tgt Ion: 96 Resp: 1878

Ion	Ratio	Lower	Upper
96	100		
61	147.7	138.0	207.0
98	45.9	50.0	75.0#



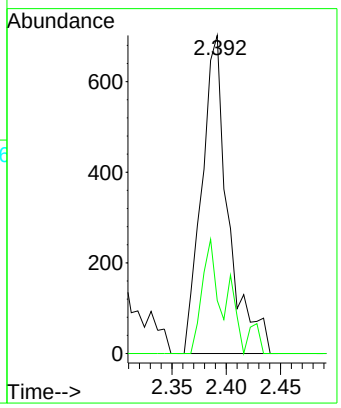


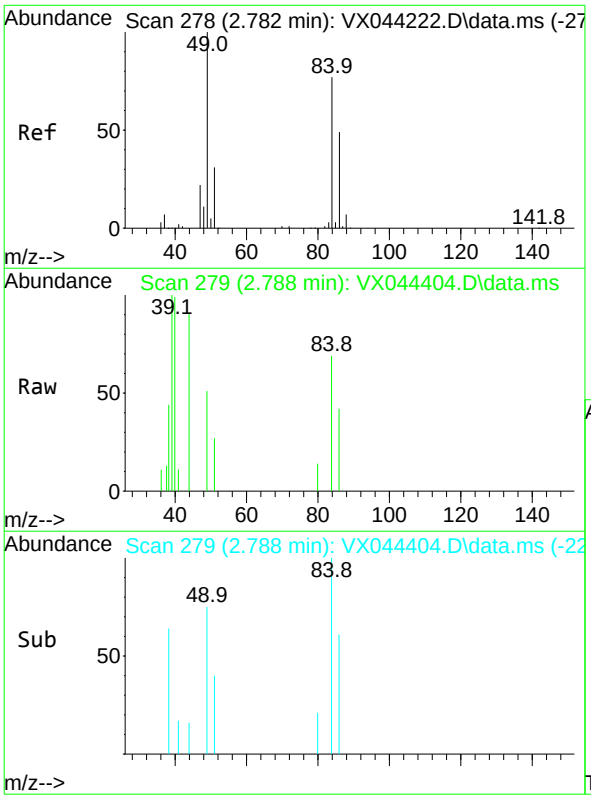
#16
Acetone
Concen: 1.536 ug/l
RT: 2.392 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Instrument :
MSVOA_X
ClientSampleId :
TT191D2-20241216

Tgt Ion: 43 Resp: 1191

Ion	Ratio	Lower	Upper
43	100		
58	16.7	21.6	32.4#

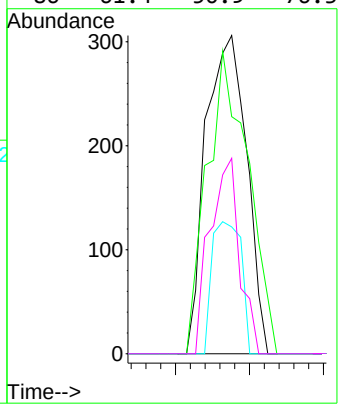


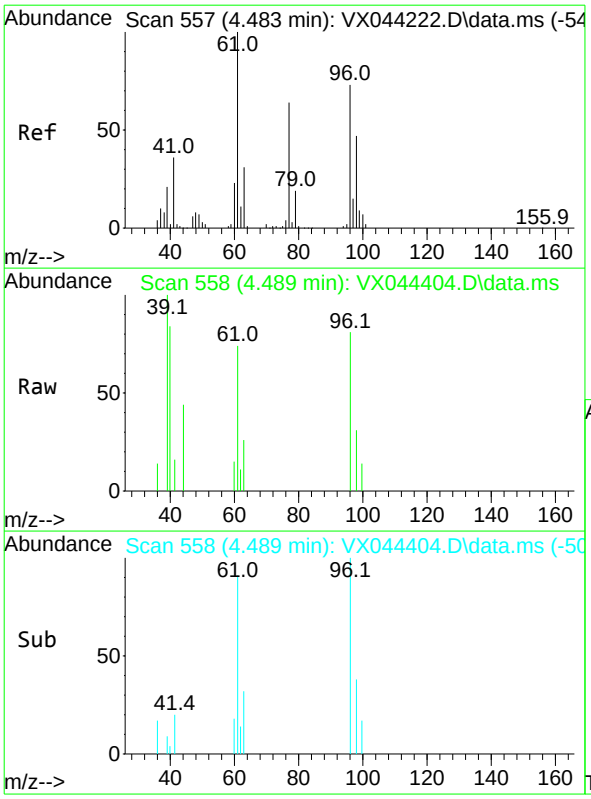


#20
Methylene Chloride
Concen: 0.403 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Tgt Ion: 84 Resp: 587

Ion	Ratio	Lower	Upper
84	100		
49	74.5	104.2	156.4#
51	39.9	32.2	48.4
86	61.4	50.9	76.3



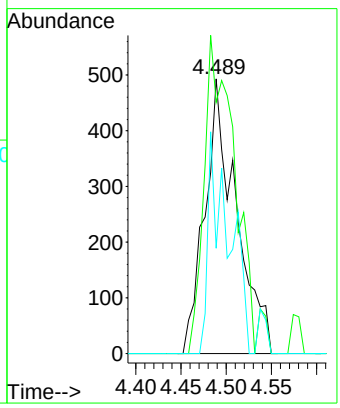


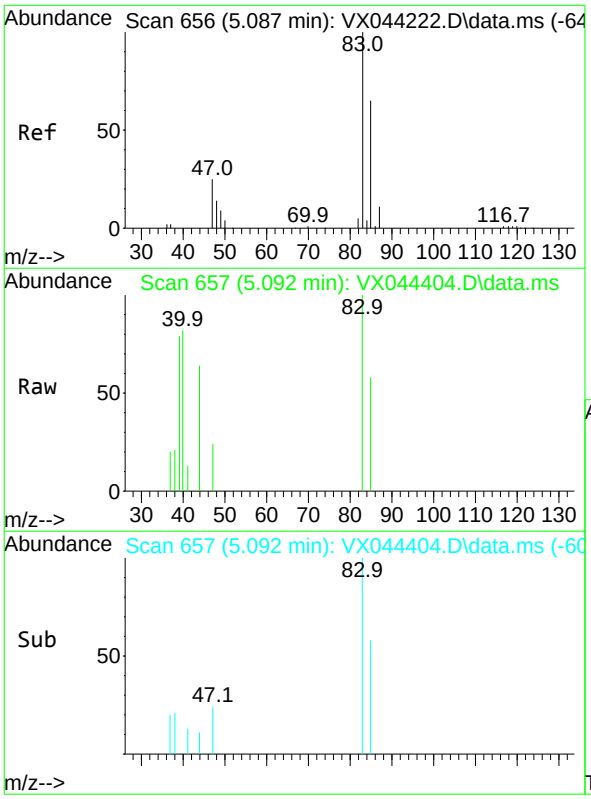
#27
cis-1,2-Dichloroethene
Concen: 0.722 ug/l
RT: 4.489 min Scan# 55
Delta R.T. 0.006 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Instrument :
MSVOA_X
ClientSampleId :
TT191D2-20241216

Tgt Ion: 96 Resp: 1185

Ion	Ratio	Lower	Upper
96	100		
61	115.4	0.0	299.0
98	53.8	0.0	129.0

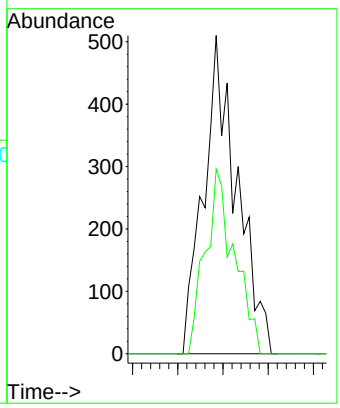


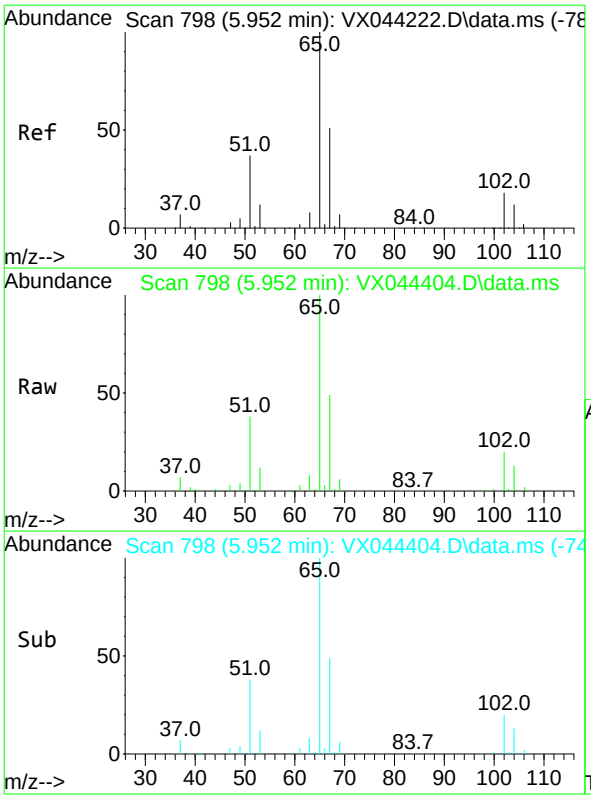


#30
Chloroform
Concen: 0.457 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Tgt Ion: 83 Resp: 1305

Ion	Ratio	Lower	Upper
83	100		
85	58.0	51.6	77.4



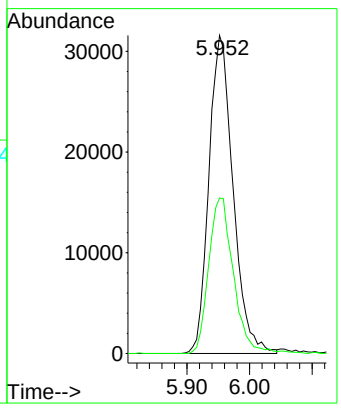


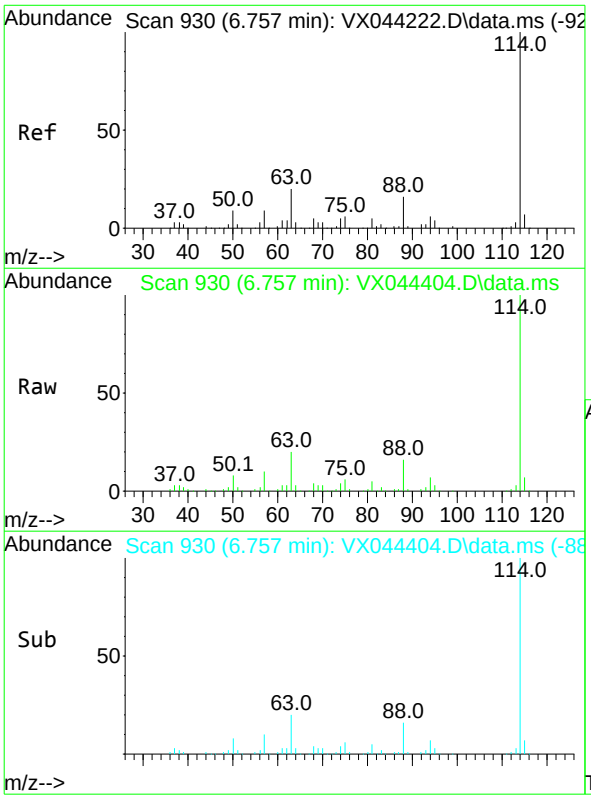
#33
1,2-Dichloroethane-d4
Concen: 44.458 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Instrument :
MSVOA_X
ClientSampleId :
TT191D2-20241216

Tgt Ion: 65 Resp: 84577

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	101.6

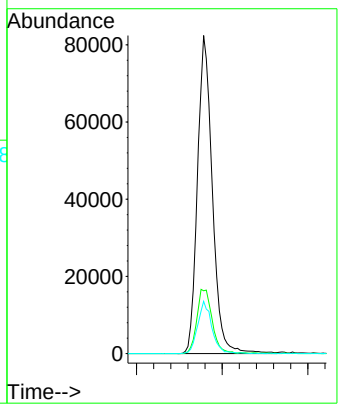


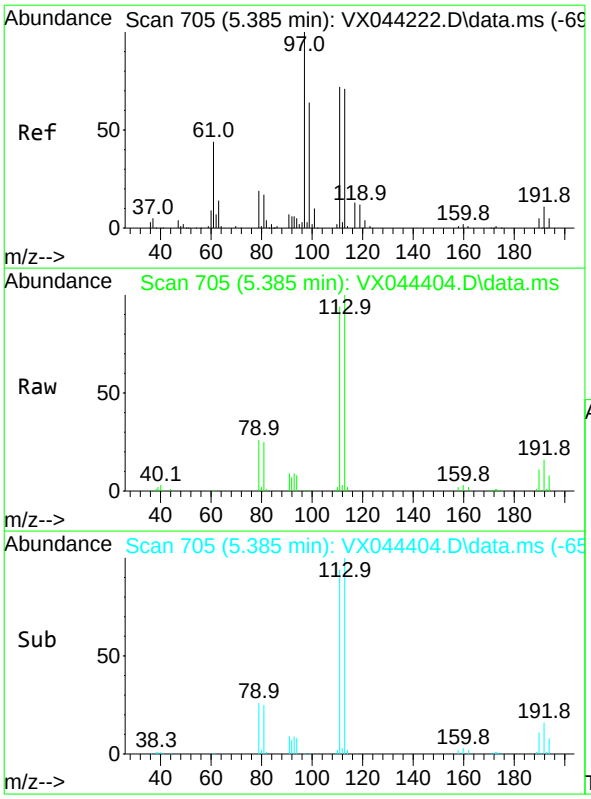


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Tgt Ion:114 Resp: 198842

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	40.6
88	16.4	0.0	31.8



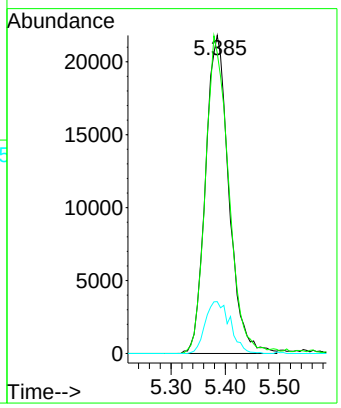


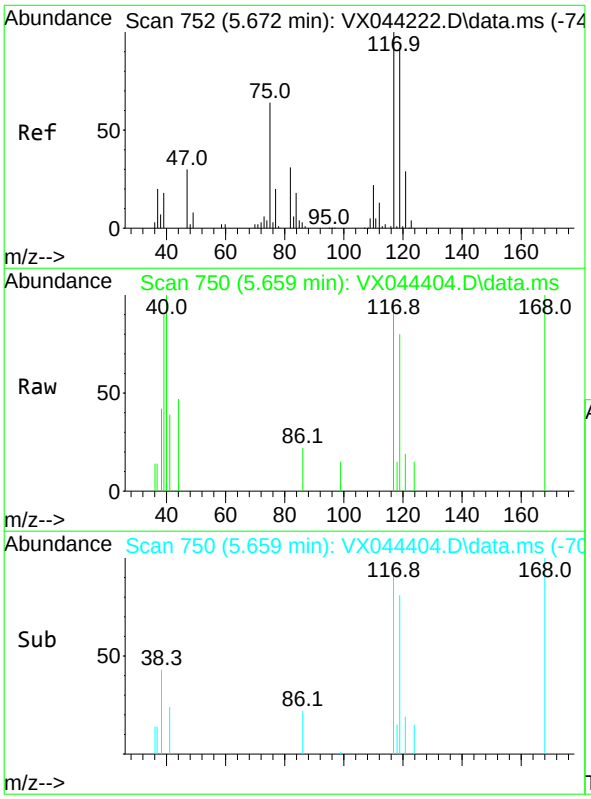
#35
Dibromofluoromethane
Concen: 47.350 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Instrument :
MSVOA_X
ClientSampleId :
TT191D2-20241216

Tgt Ion:113 Resp: 65208

Ion	Ratio	Lower	Upper
113	100		
111	99.5	80.4	120.6
192	17.4	13.3	19.9

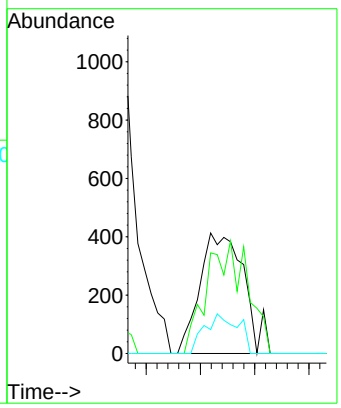


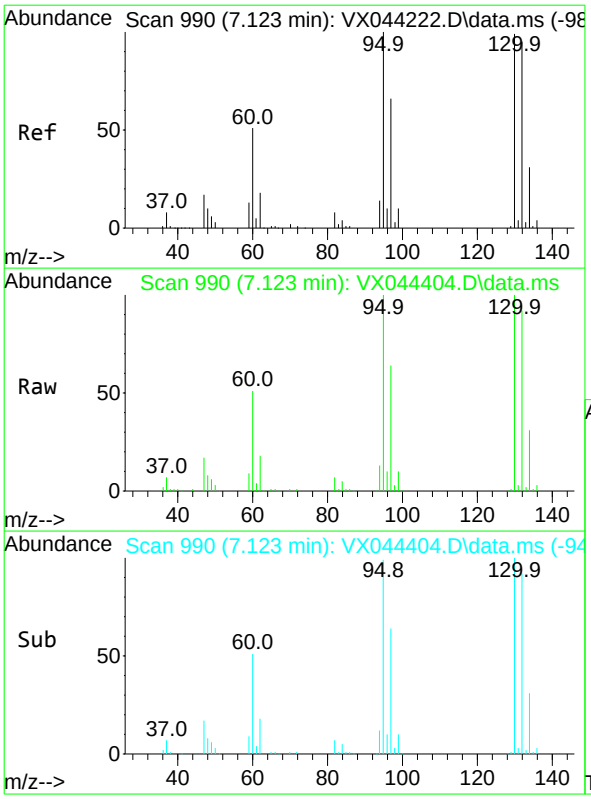


#38
Carbon Tetrachloride
Concen: 0.609 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Tgt Ion:117 Resp: 1167

Ion	Ratio	Lower	Upper
117	100		
119	83.5	74.2	111.4
121	19.9	23.0	34.6#



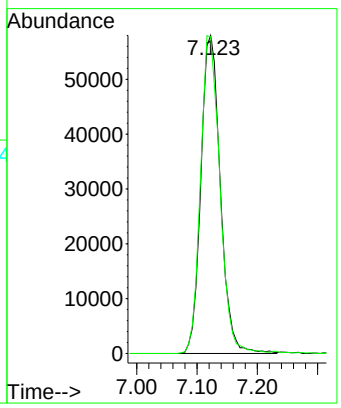


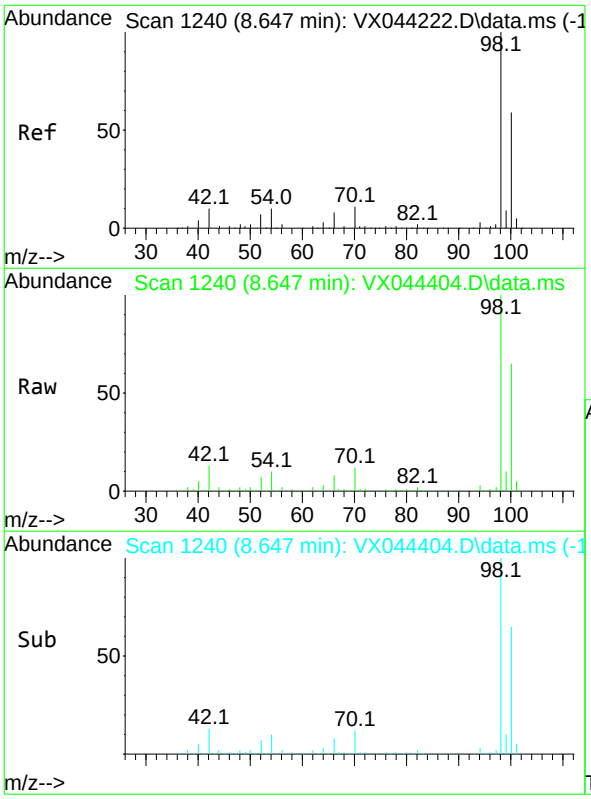
#44
Trichloroethene
Concen: 96.301 ug/l
RT: 7.123 min Scan# 99
Delta R.T. -0.000 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Instrument :
MSVOA_X
ClientSampleId :
TT191D2-20241216

Tgt Ion:130 Resp: 129798

Ion	Ratio	Lower	Upper
130	100		
95	99.6	0.0	201.4

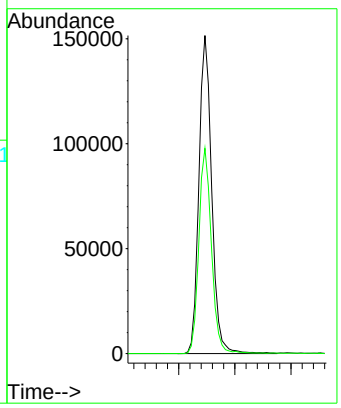


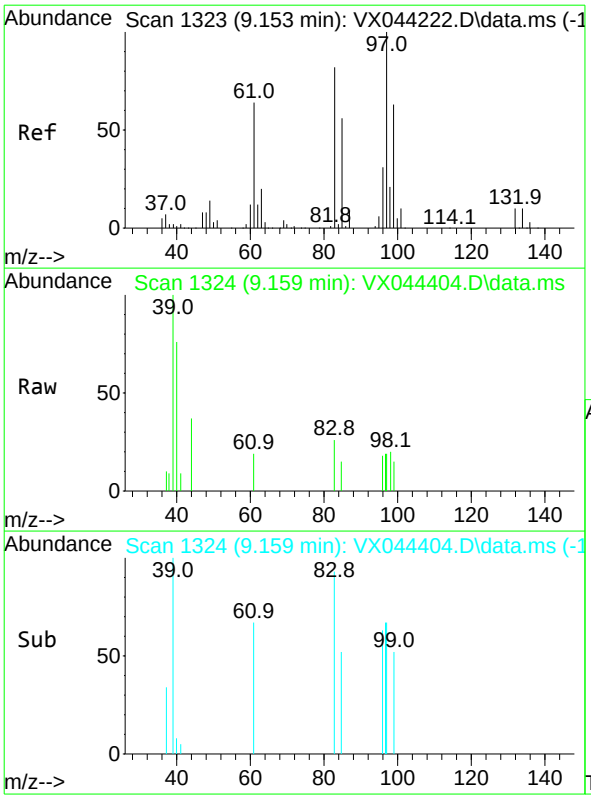


#50
Toluene-d8
Concen: 51.549 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Tgt Ion: 98 Resp: 239506

Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.5	77.3



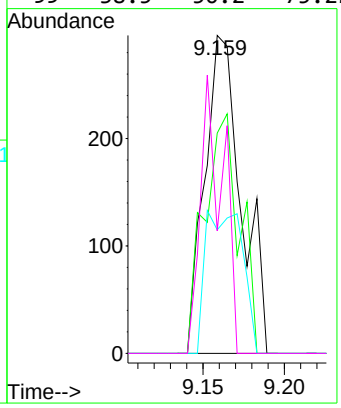


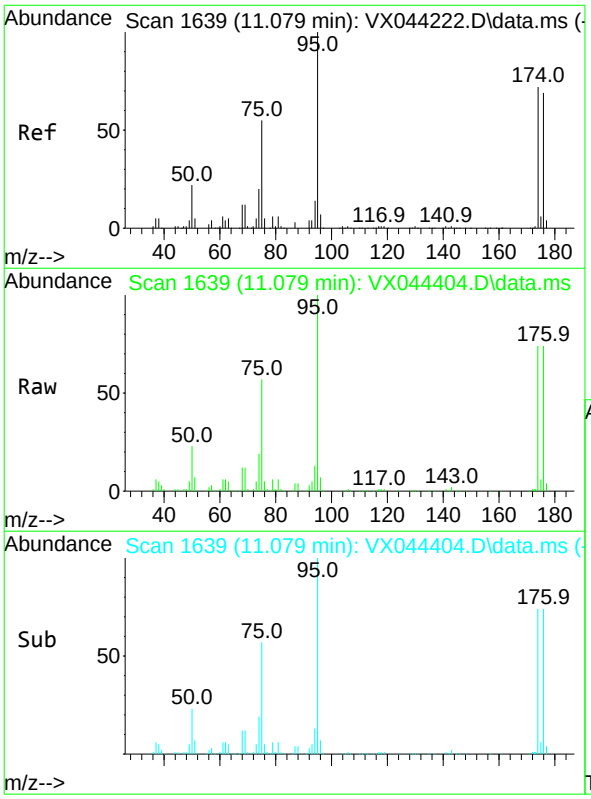
#55
1,1,2-Trichloroethane
Concen: 0.343 ug/l
RT: 9.159 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Instrument :
MSVOA_X
ClientSampleId :
TT191D2-20241216

Tgt Ion: 97 Resp: 462

Ion	Ratio	Lower	Upper
97	100		
83	69.3	65.3	97.9
85	38.9	44.6	67.0#
99	38.5	50.2	75.2#

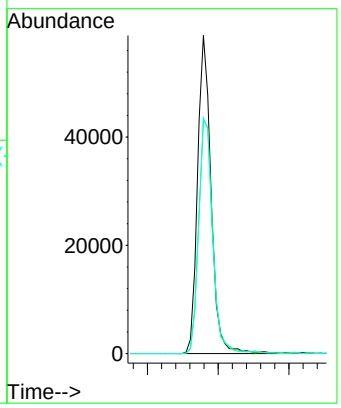


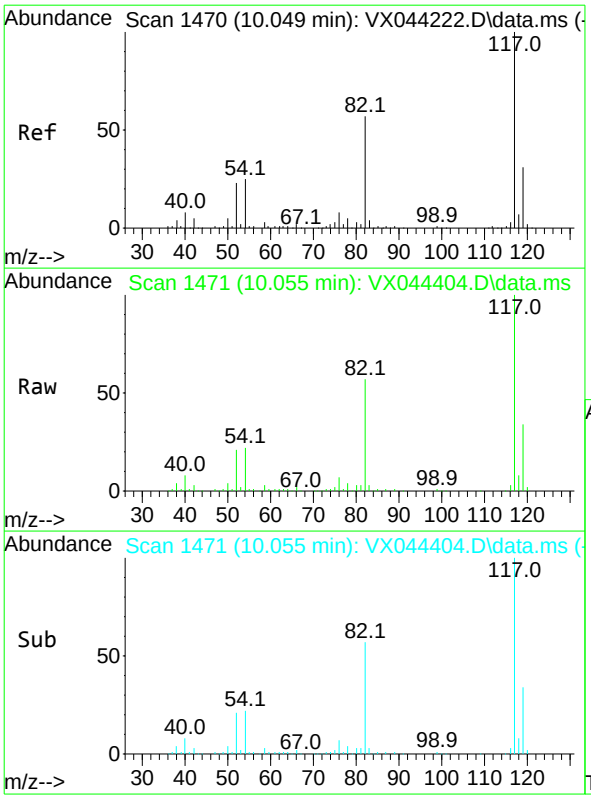


#62
4-Bromofluorobenzene
Concen: 47.967 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Tgt Ion: 95 Resp: 77874

Ion	Ratio	Lower	Upper
95	100		
174	77.9	0.0	145.8
176	75.5	0.0	137.8



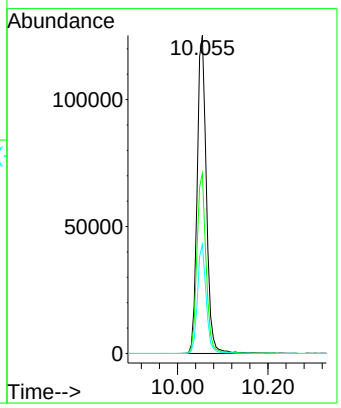


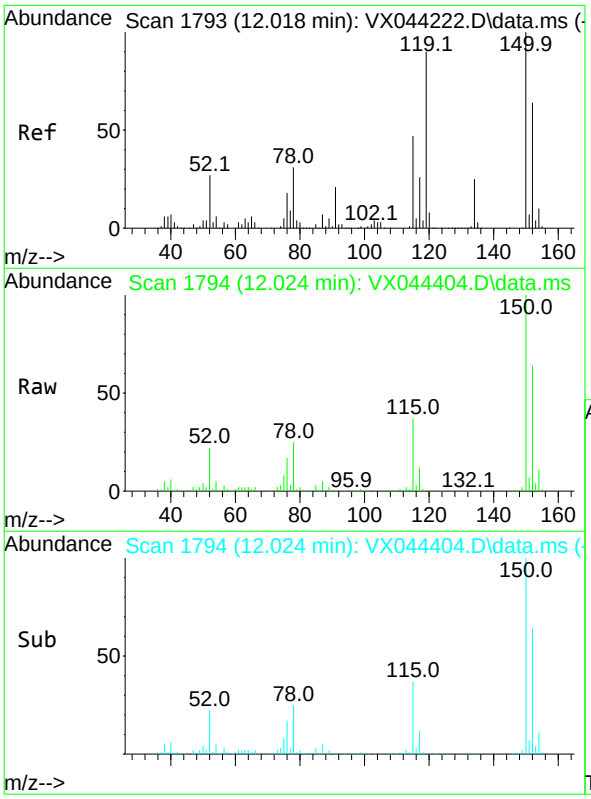
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Instrument :
MSVOA_X
ClientSampleId :
TT191D2-20241216

Tgt Ion:117 Resp: 177204

Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.8	68.8
119	34.3	25.0	37.4

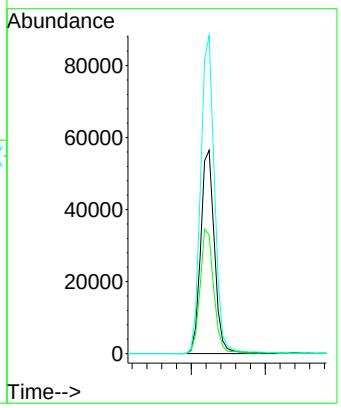




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044404.D
Acq: 19 Dec 2024 01:24

Tgt Ion:152 Resp: 73178

Ion	Ratio	Lower	Upper
152	100		
115	60.8	44.5	133.3
150	157.3	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT163S1-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044405.D	1		12/19/24 01:47	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.40	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.35	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	6.70		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	1.00		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT163S1-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044405.D	1		12/19/24 01:47	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.00		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.0		81 - 118		90%	SPK: 50
1868-53-7	Dibromofluoromethane	48.2		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	52.9		89 - 112		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.8		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	107000	5.55				
540-36-3	1,4-Difluorobenzene	188000	6.757				
3114-55-4	Chlorobenzene-d5	168000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	67500	12.024				

Raw Data: **VX044405.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT163S1-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044405.D	1		12/19/24 01:47	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044405.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044405.D
Acq On : 19 Dec 2024 01:47
Operator : JC/MD
Sample : P5317-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT163S1-20241216

Quant Time: Dec 19 05:08:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	107084	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	188252	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	168467	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	67456	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	84491	45.001	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 90.000%			
35) Dibromofluoromethane	5.379	113	62780	48.151	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.300%			
50) Toluene-d8	8.647	98	232616	52.883	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.760%			
62) 4-Bromofluorobenzene	11.079	95	71922	46.793	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.580%			
Target Compounds						Qvalue
3) Chloromethane	1.294	50	495	0.313	ug/l #	80
16) Acetone	2.380	43	1086	1.419	ug/l #	68
20) Methylene Chloride	2.788	84	506	0.352	ug/l #	79
44) Trichloroethene	7.135	130	1312	1.028	ug/l	66

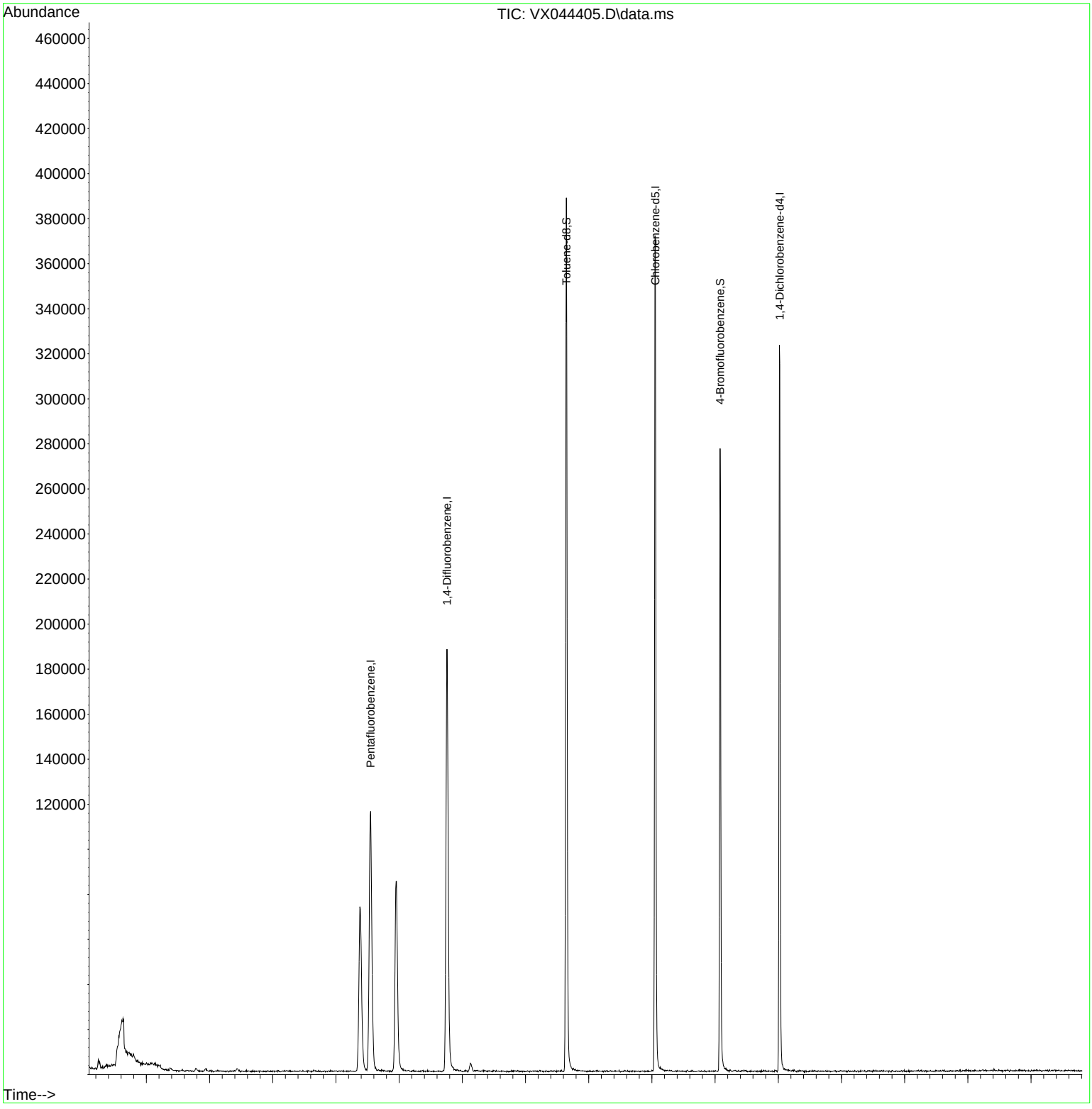
(#) = qualifier out of range (m) = manual integration (+) = signals summed

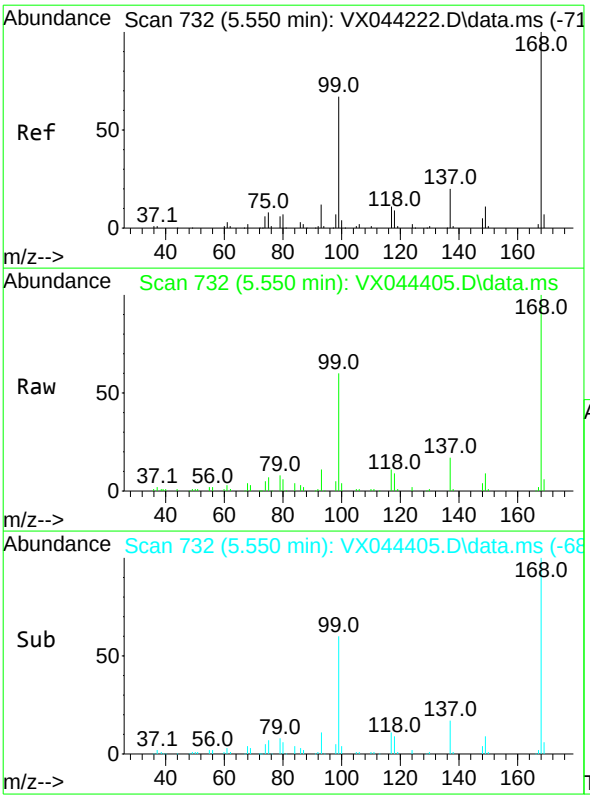
Sample Results: **VX044405.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044405.D
Acq On : 19 Dec 2024 01:47
Operator : JC/MD
Sample : P5317-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT163S1-20241216

Quant Time: Dec 19 05:08:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



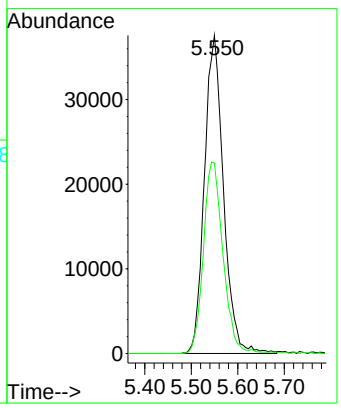


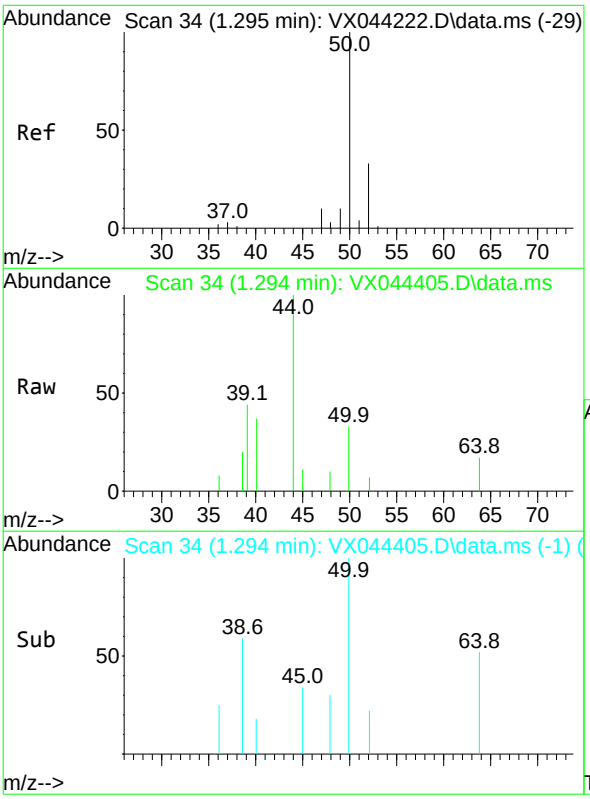
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044405.D
Acq: 19 Dec 2024 01:47

Instrument :
MSVOA_X
ClientSampleId :
TT163S1-20241216

Tgt Ion:168 Resp: 107084

Ion	Ratio	Lower	Upper
168	100		
99	59.9	53.4	80.0

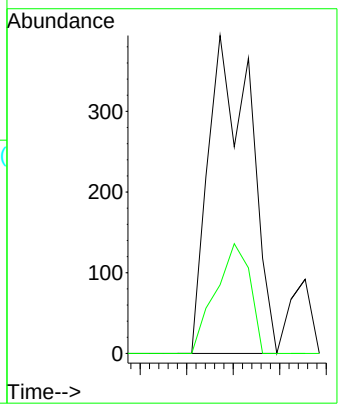


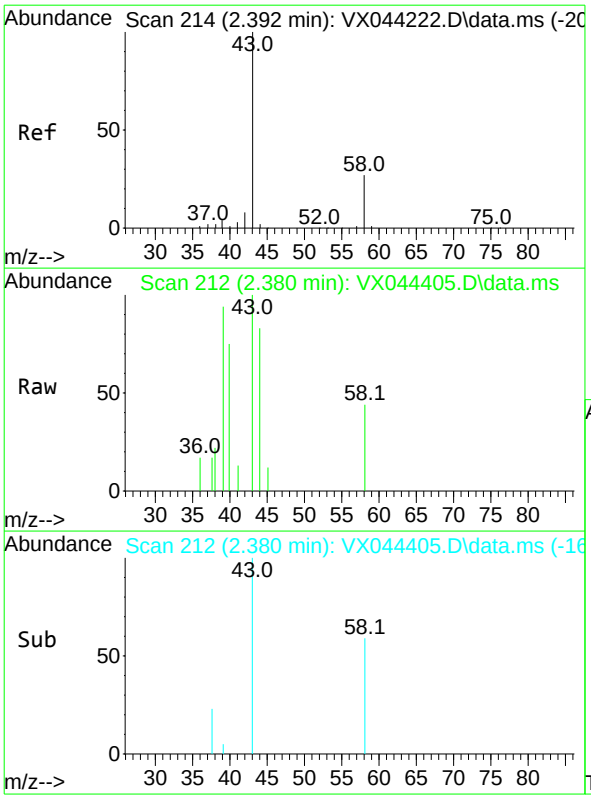


#3
Chloromethane
Concen: 0.313 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044405.D
Acq: 19 Dec 2024 01:47

Tgt Ion: 50 Resp: 495

Ion	Ratio	Lower	Upper
50	100		
52	21.6	26.5	39.7#



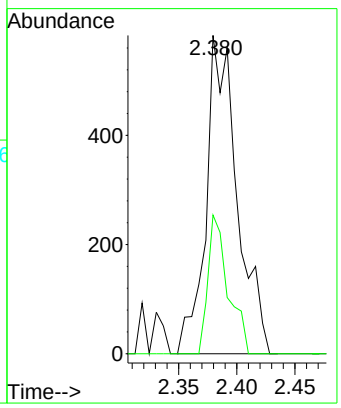


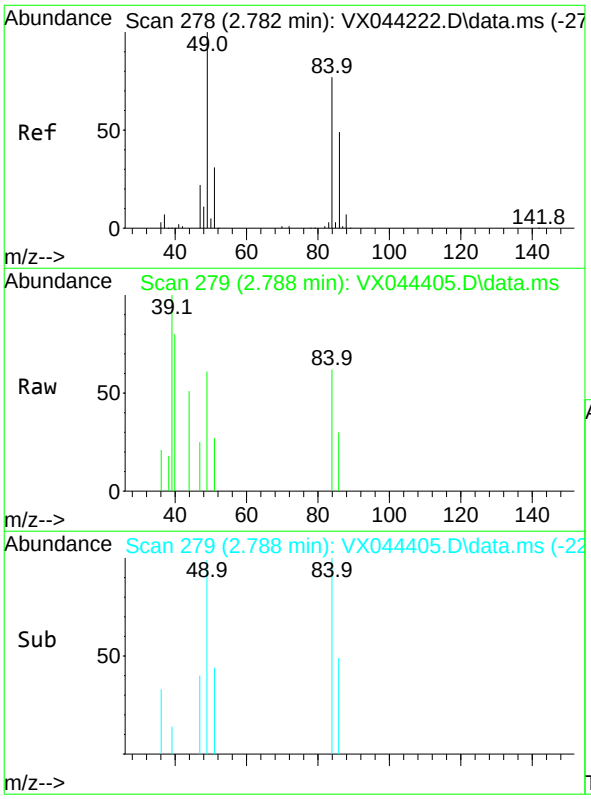
#16
Acetone
Concen: 1.419 ug/l
RT: 2.380 min Scan# 21
Delta R.T. -0.012 min
Lab File: VX044405.D
Acq: 19 Dec 2024 01:47

Instrument :
MSVOA_X
ClientSampleId :
TT163S1-20241216

Tgt Ion: 43 Resp: 1086

Ion	Ratio	Lower	Upper
43	100		
58	43.6	21.6	32.4#

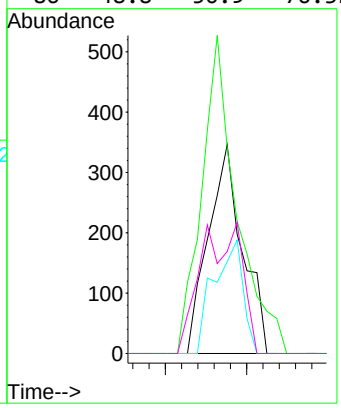


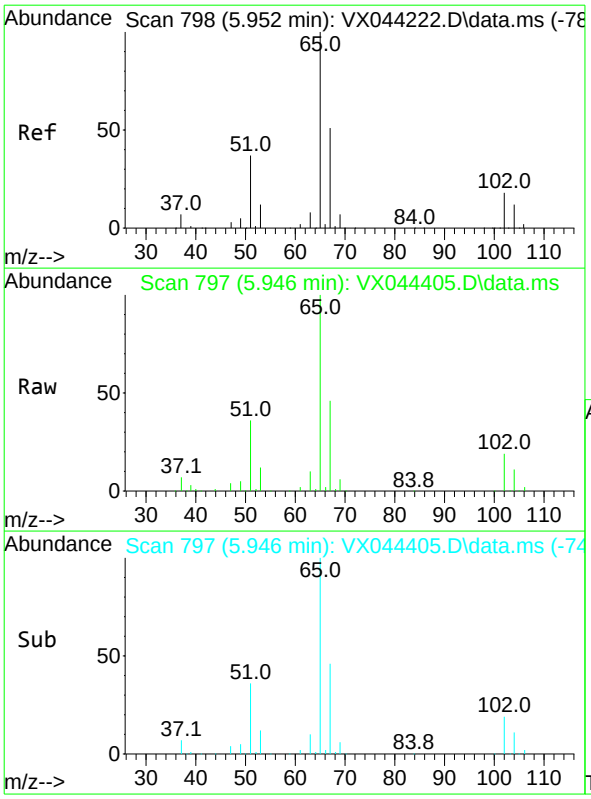


#20
Methylene Chloride
Concen: 0.352 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX044405.D
Acq: 19 Dec 2024 01:47

Tgt Ion: 84 Resp: 506

Ion	Ratio	Lower	Upper
84	100		
49	98.6	104.2	156.4#
51	43.9	32.2	48.4
86	48.8	50.9	76.3#



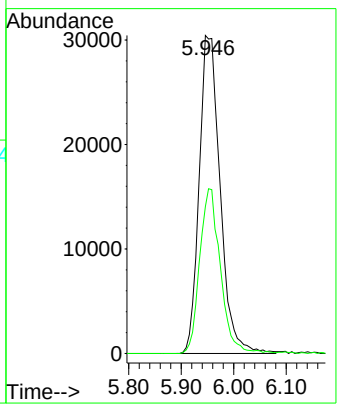


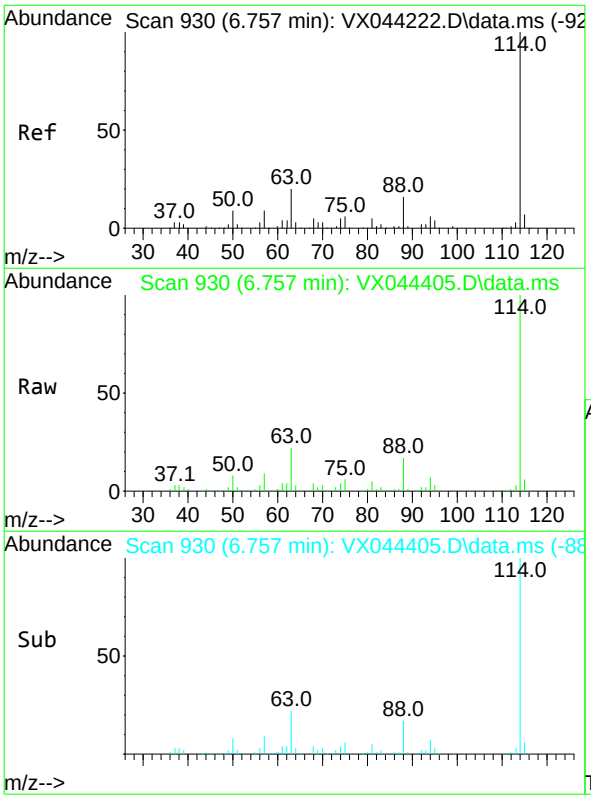
#33
1,2-Dichloroethane-d4
Concen: 45.001 ug/l
RT: 5.946 min Scan# 79
Delta R.T. -0.006 min
Lab File: VX044405.D
Acq: 19 Dec 2024 01:47

Instrument :
MSVOA_X
ClientSampleId :
TT163S1-20241216

Tgt Ion: 65 Resp: 84491

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	101.6

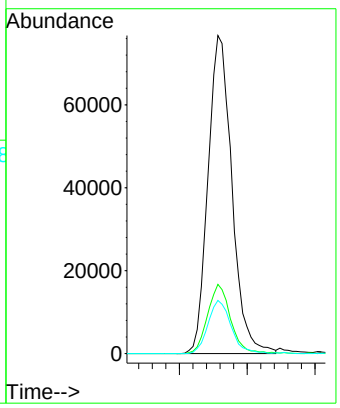


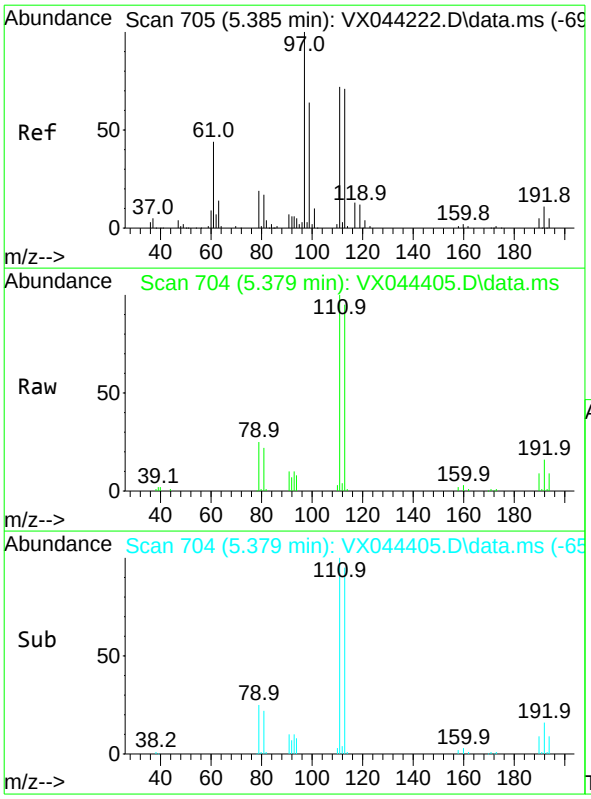


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044405.D
Acq: 19 Dec 2024 01:47

Tgt Ion:114 Resp: 188252

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	40.6
88	16.7	0.0	31.8



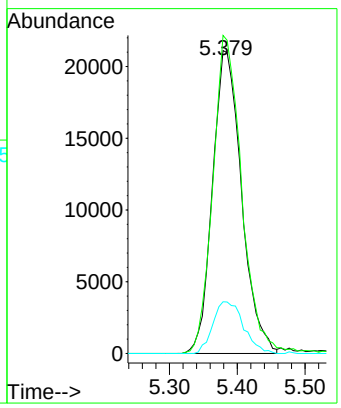


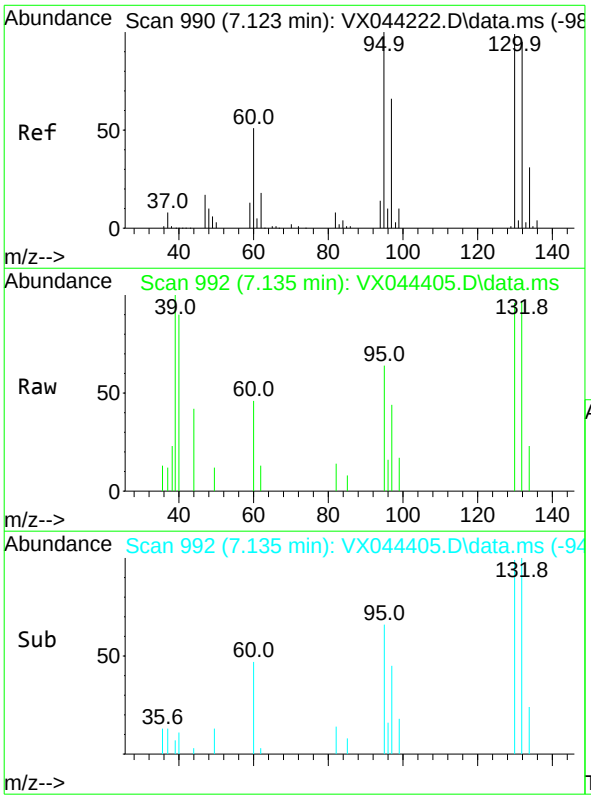
#35
Dibromofluoromethane
Concen: 48.151 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044405.D
Acq: 19 Dec 2024 01:47

Instrument :
MSVOA_X
ClientSampleId :
TT163S1-20241216

Tgt Ion:113 Resp: 62780

Ion	Ratio	Lower	Upper
113	100		
111	104.1	80.4	120.6
192	18.0	13.3	19.9

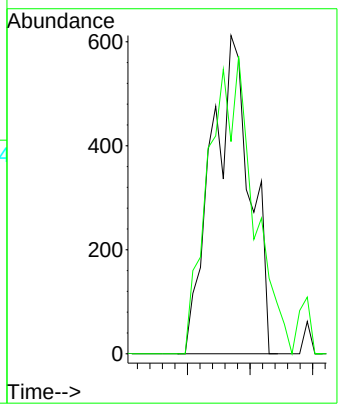


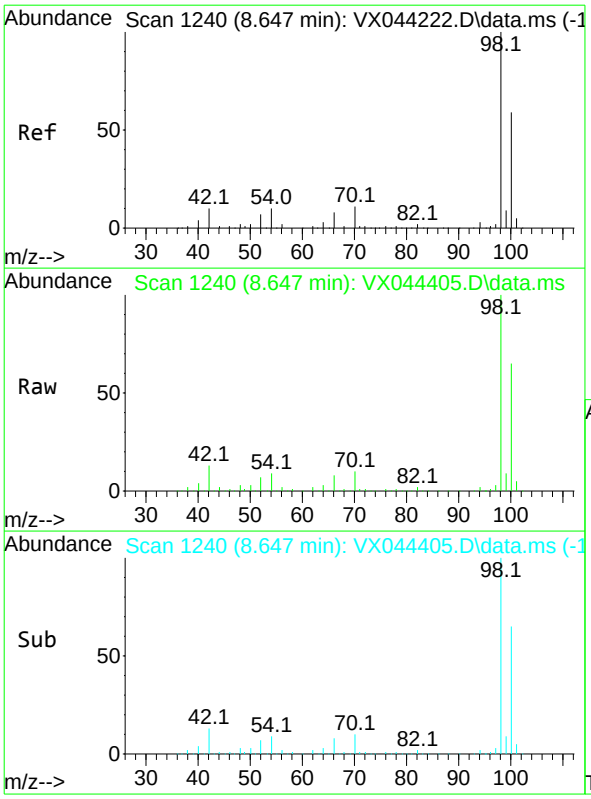


#44
Trichloroethene
Concen: 1.028 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.012 min
Lab File: VX044405.D
Acq: 19 Dec 2024 01:47

Tgt Ion:130 Resp: 1312

Ion	Ratio	Lower	Upper
130	100		
95	66.7	0.0	201.4



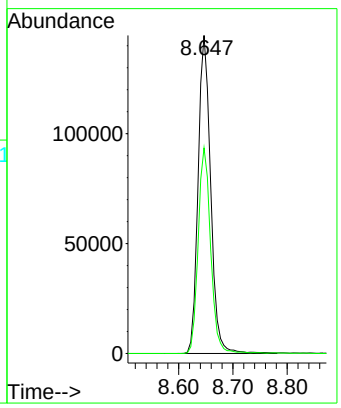


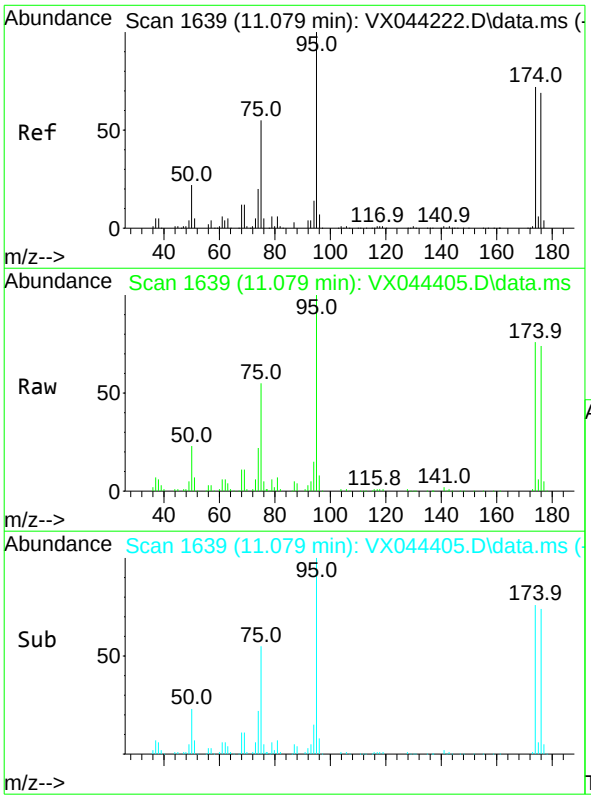
#50
Toluene-d8
Concen: 52.883 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044405.D
Acq: 19 Dec 2024 01:47

Instrument :
MSVOA_X
ClientSampleId :
TT163S1-20241216

Tgt Ion: 98 Resp: 232616

Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.5	77.3

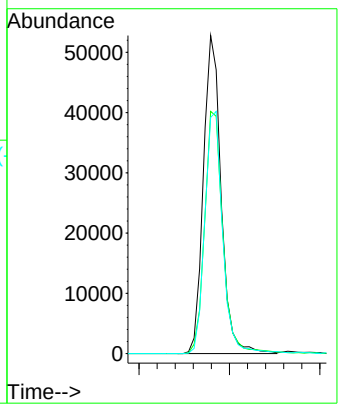


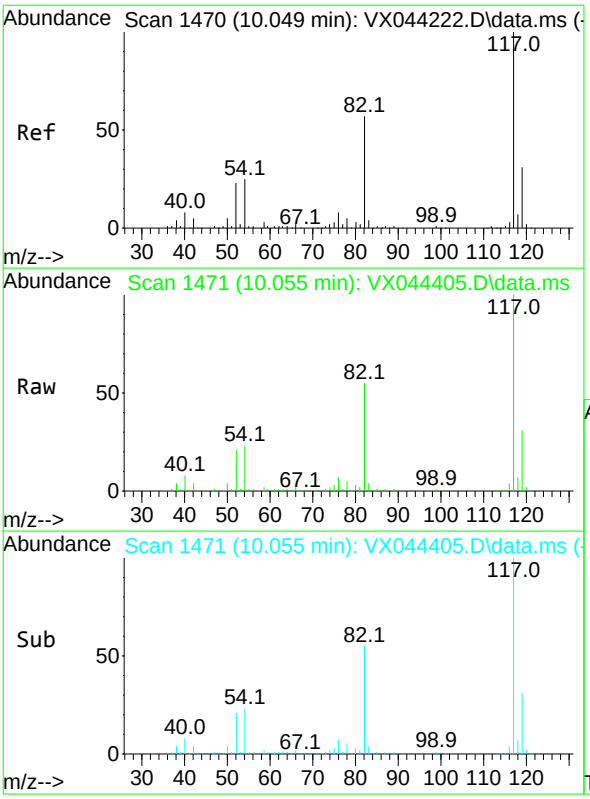


#62
4-Bromofluorobenzene
Concen: 46.793 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044405.D
Acq: 19 Dec 2024 01:47

Tgt Ion: 95 Resp: 71922

Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	145.8
176	76.8	0.0	137.8



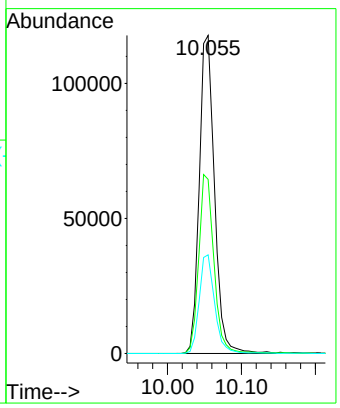


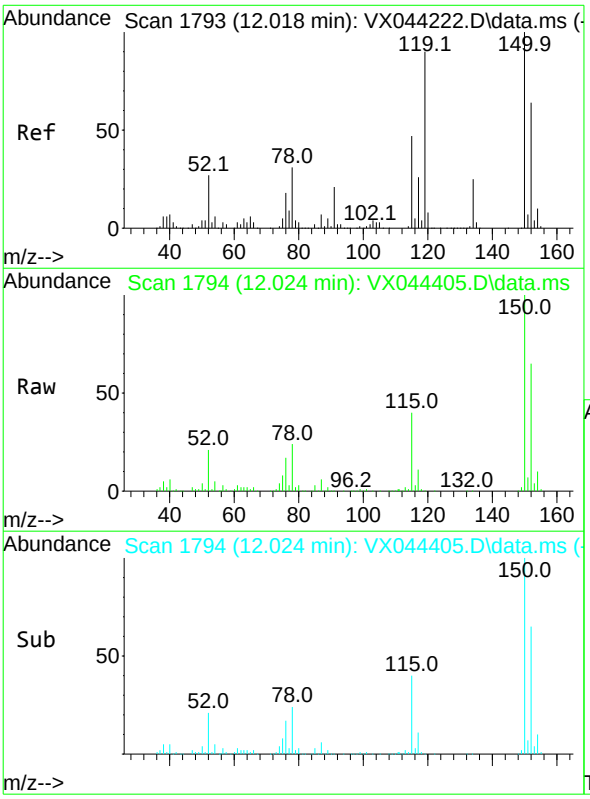
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044405.D
Acq: 19 Dec 2024 01:47

Instrument :
MSVOA_X
ClientSampleId :
TT163S1-20241216

Tgt Ion:117 Resp: 168467

Ion	Ratio	Lower	Upper
117	100		
82	54.7	45.8	68.8
119	31.0	25.0	37.4

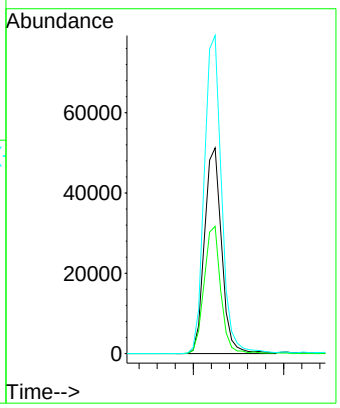




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044405.D
Acq: 19 Dec 2024 01:47

Tgt Ion:152 Resp: 67456

Ion	Ratio	Lower	Upper
152	100		
115	60.2	44.5	133.3
150	155.6	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	DUP-04-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044487.D	1		12/23/24 17:54	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.69	J	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.52	J	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.70		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.64	J	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.30	J	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	UQ	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.43	J	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	9.70		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	DUP-04-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044487.D	1		12/23/24 17:54	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	UQ	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.8		81 - 118		86%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	52.6		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	141000	5.55				
540-36-3	1,4-Difluorobenzene	245000	6.757				
3114-55-4	Chlorobenzene-d5	208000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	92700	12.018				

Raw Data: **VX044487.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	DUP-04-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044487.D	1		12/23/24 17:54	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044487.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044487.D
Acq On : 23 Dec 2024 17:54
Operator : JC/MD
Sample : P5317-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 23 22:14:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
DUP-04-20241216

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	141229	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	244942	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	208216	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	92708	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	105913	42.772	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 85.540%			
35) Dibromofluoromethane	5.385	113	82591	48.685	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.360%			
50) Toluene-d8	8.647	98	300884	52.572	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.140%			
62) 4-Bromofluorobenzene	11.079	95	96839	48.423	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.840%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	1508	0.691	ug/l	97
3) Chloromethane	1.295	50	1090	0.522	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.319	101	2977	1.727	ug/l	95
12) 1,1-Dichloroethene	2.307	96	1007	0.636	ug/l #	76
16) Acetone	2.380	43	1142	1.131	ug/l #	88
27) cis-1,2-Dichloroethene	4.489	96	639	0.299	ug/l	77
30) Chloroform	5.099	83	1586m	0.427	ug/l	
44) Trichloroethene	7.129	130	16176	9.743	ug/l	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VX044487.D**

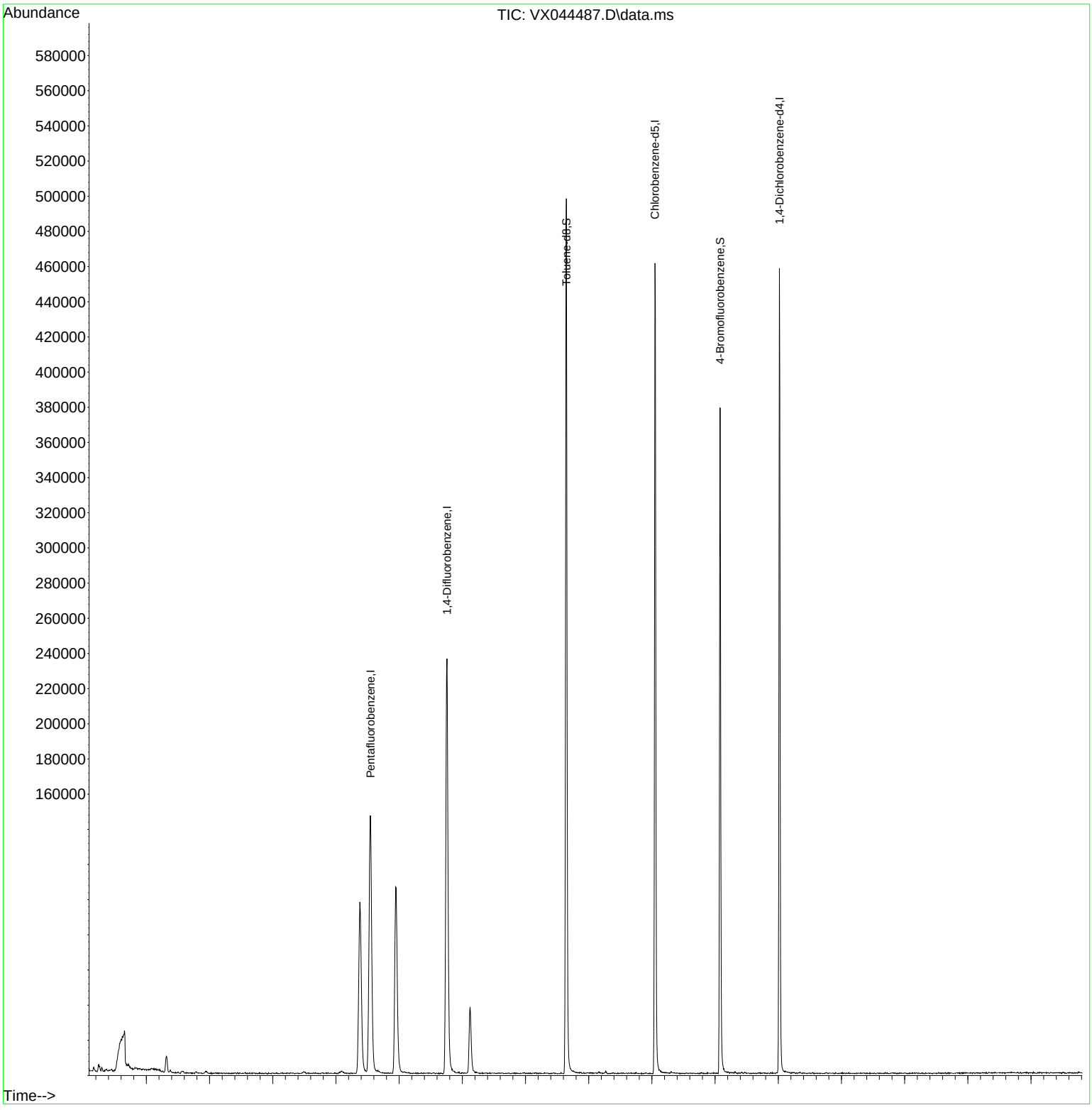
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044487.D
Acq On : 23 Dec 2024 17:54
Operator : JC/MD
Sample : P5317-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

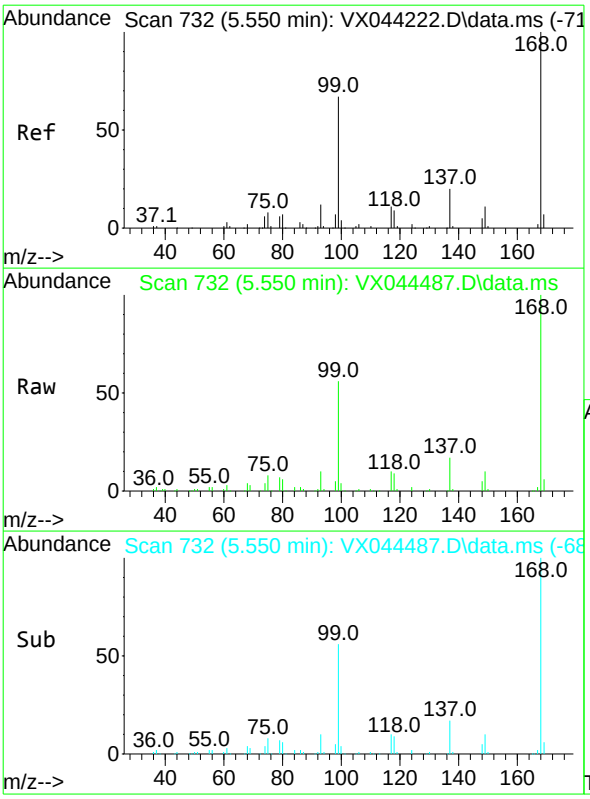
Quant Time: Dec 23 22:14:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
DUP-04-20241216

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

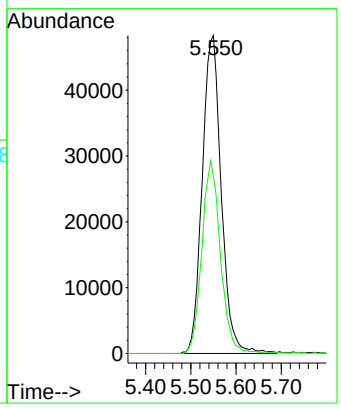




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

Tgt Ion:168 Resp: 141229

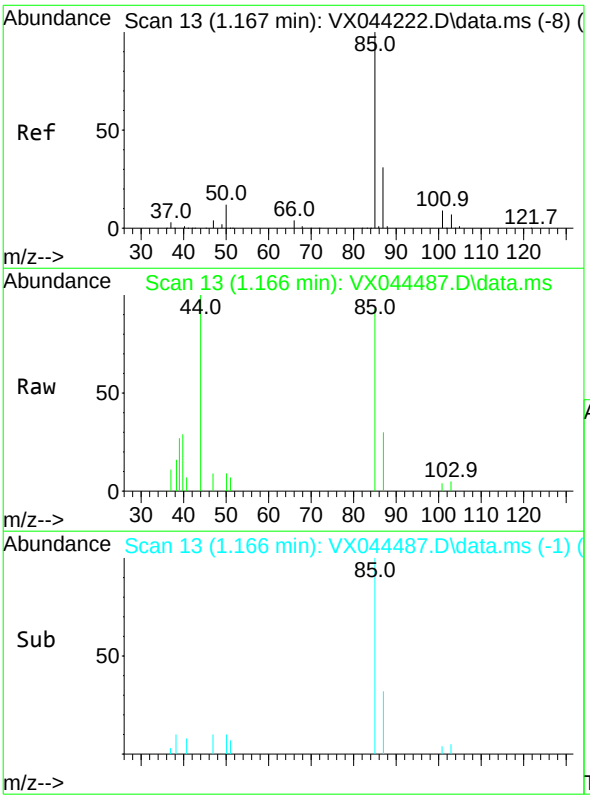
Ion	Ratio	Lower	Upper
168	100		
99	55.8	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
DUP-04-20241216

Manual Integrations
APPROVED

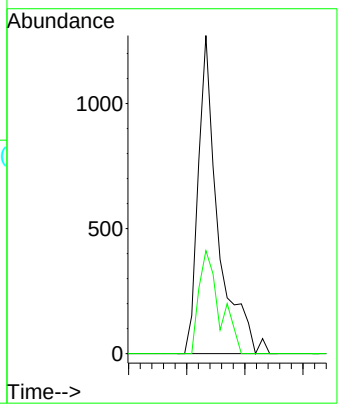
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

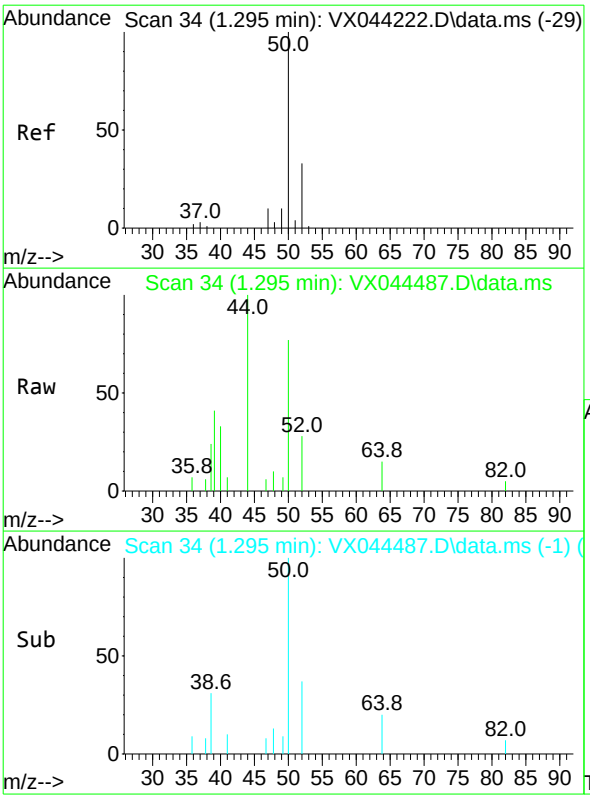


#2
Dichlorodifluoromethane
Concen: 0.691 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

Tgt Ion: 85 Resp: 1508

Ion	Ratio	Lower	Upper
85	100		
87	32.4	15.4	46.4





#3
Chloromethane
Concen: 0.522 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

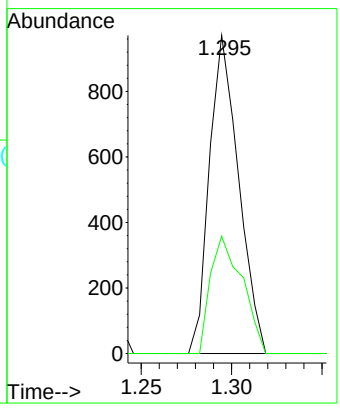
Tgt Ion: 50 Resp: 1090

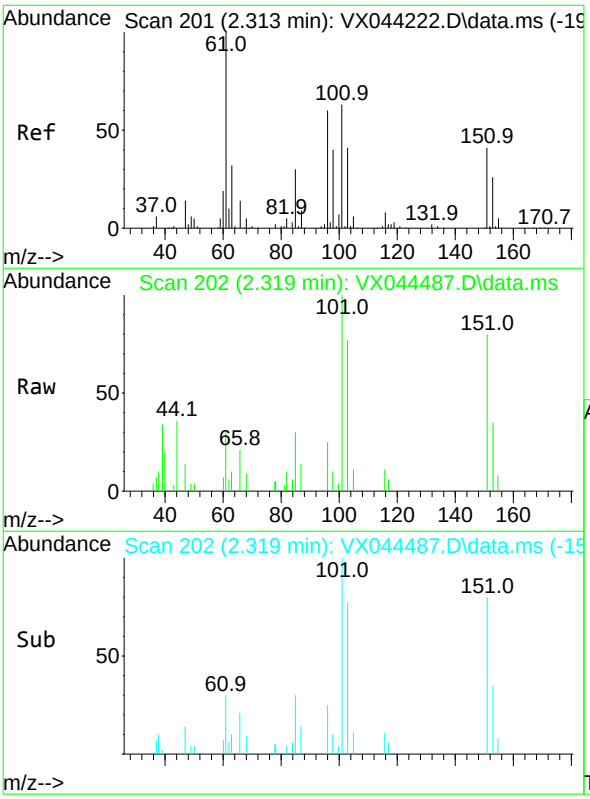
Ion	Ratio	Lower	Upper
50	100		
52	36.9	26.5	39.7

Instrument :
MSVOA_X
ClientSampleId :
DUP-04-20241216

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

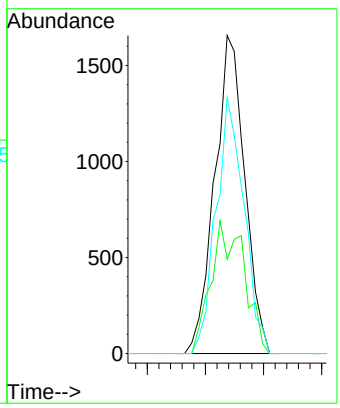


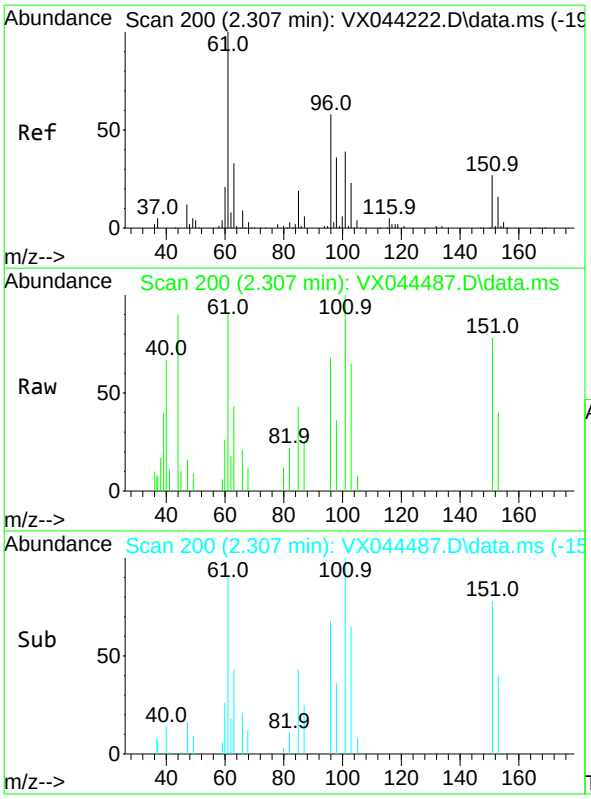


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.727 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

Tgt Ion:101 Resp: 2977

Ion	Ratio	Lower	Upper
101	100		
85	46.3	38.5	57.7
151	75.1	55.8	83.6





#12
1,1-Dichloroethene
Concen: 0.636 ug/l
RT: 2.307 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

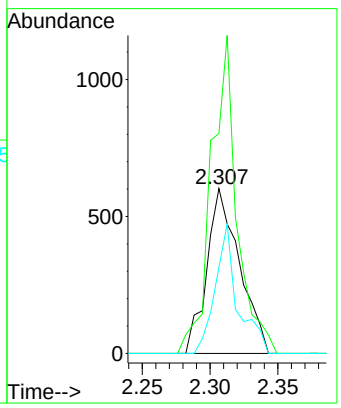
Tgt Ion: 96 Resp: 1007

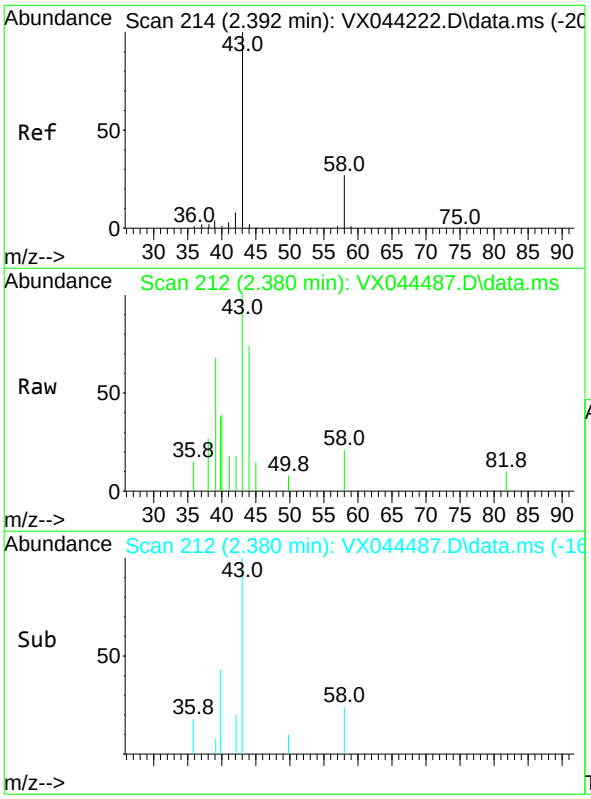
Ion	Ratio	Lower	Upper
96	100		
61	133.4	138.0	207.0#
98	52.3	50.0	75.0

Instrument :
MSVOA_X
ClientSampleId :
DUP-04-20241216

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

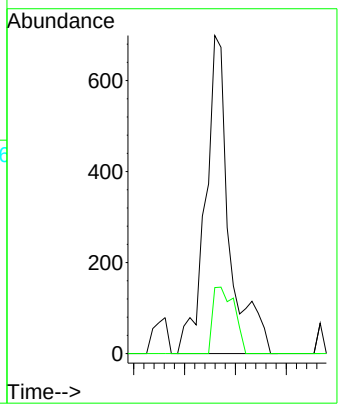


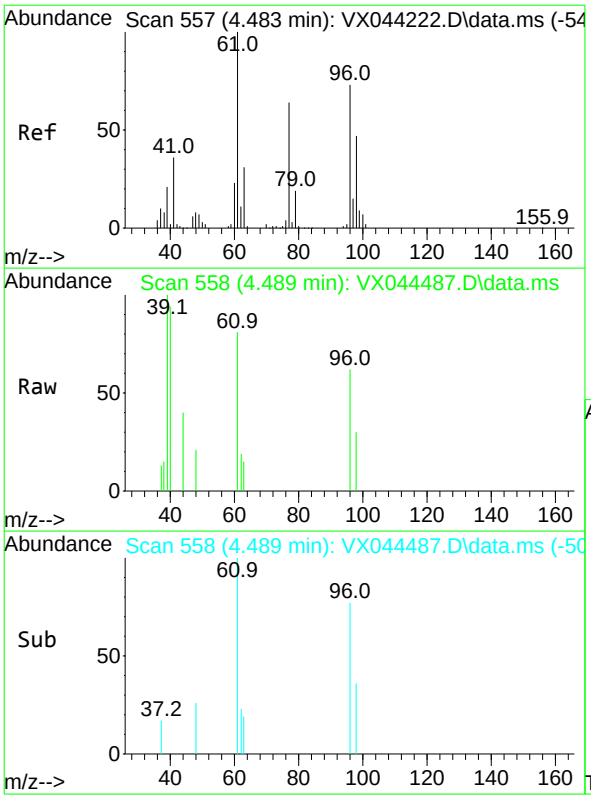


#16
Acetone
Concen: 1.131 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.012 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

Tgt Ion: 43 Resp: 1142

Ion	Ratio	Lower	Upper
43	100		
58	20.7	21.6	32.4#





#27
cis-1,2-Dichloroethene
Concen: 0.299 ug/l
RT: 4.489 min Scan# 55
Delta R.T. 0.006 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

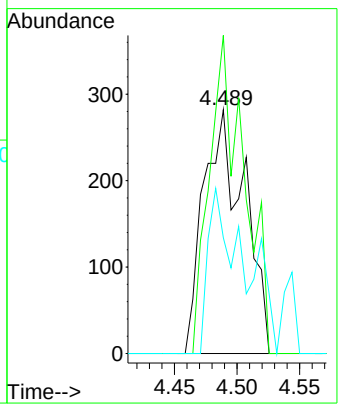
Tgt Ion: 96 Resp: 639

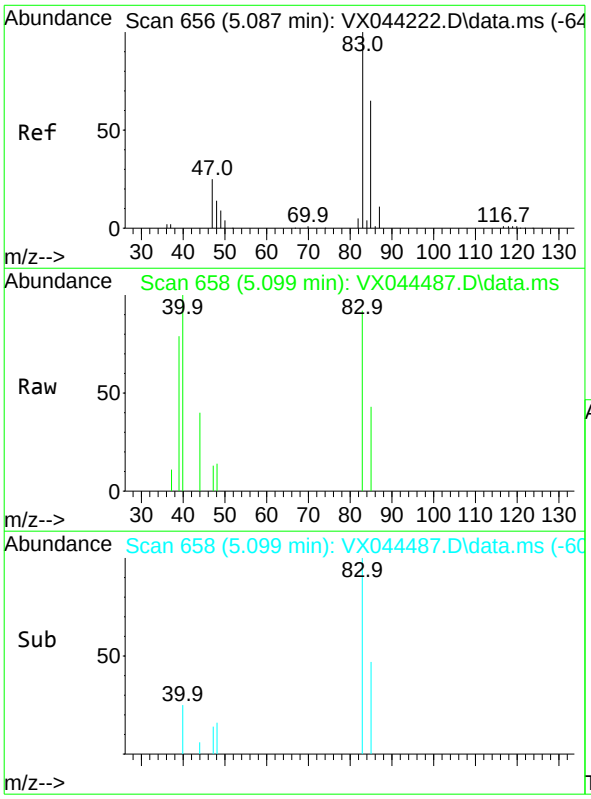
Ion	Ratio	Lower	Upper
96	100		
61	111.0	0.0	299.0
98	60.7	0.0	129.0

Instrument :
MSVOA_X
ClientSampleId :
DUP-04-20241216

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

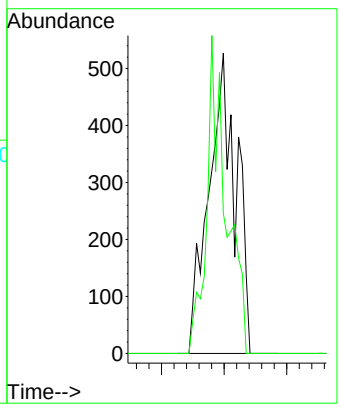


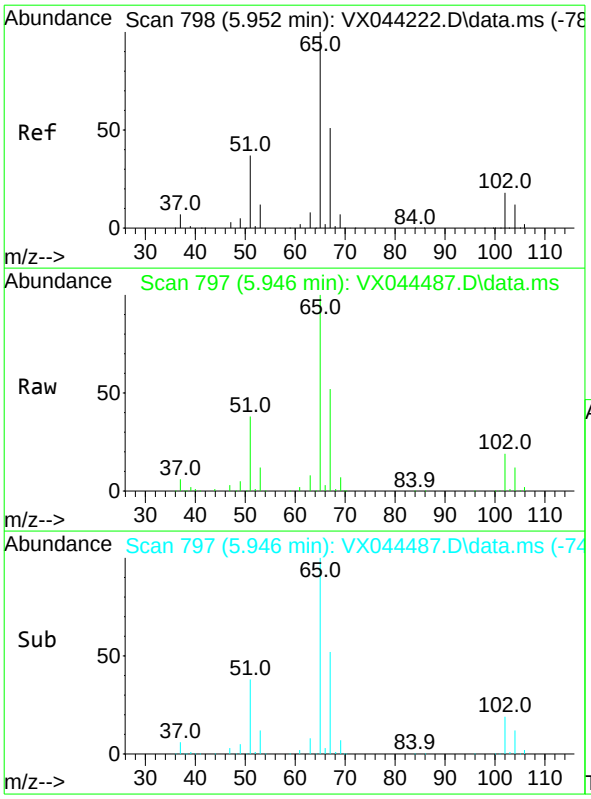


#30
Chloroform
Concen: 0.427 ug/l m
RT: 5.099 min Scan# 658
Delta R.T. 0.012 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

Tgt Ion: 83 Resp: 1586

Ion	Ratio	Lower	Upper
83	100		
85	46.7	51.6	77.4#

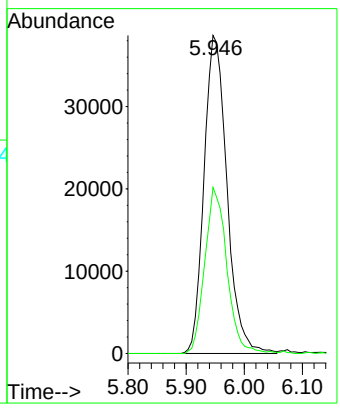




#33
1,2-Dichloroethane-d4
Concen: 42.772 ug/l
RT: 5.946 min Scan# 79
Delta R.T. -0.006 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

Tgt Ion: 65 Resp: 105913

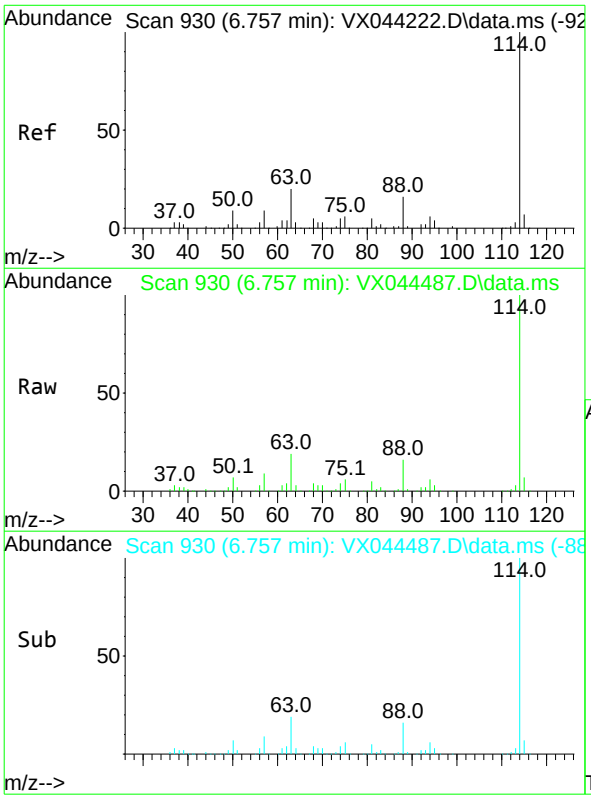
Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
DUP-04-20241216

Manual Integrations
APPROVED

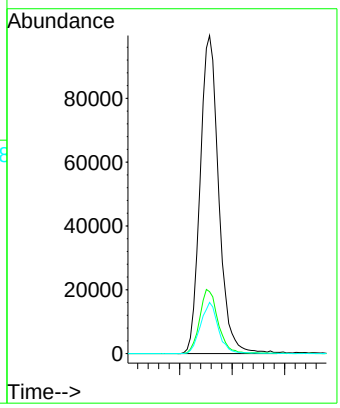
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

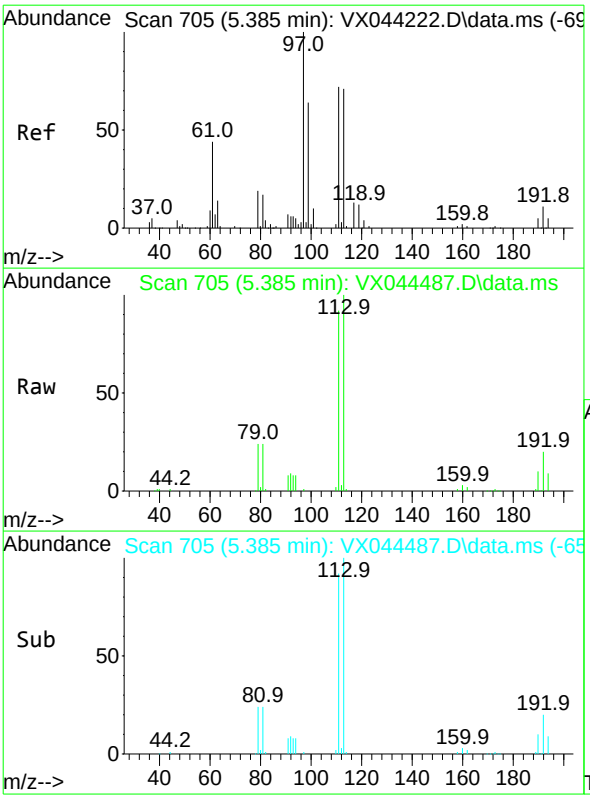


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

Tgt Ion:114 Resp: 244942

Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	40.6
88	16.1	0.0	31.8





#35
Dibromofluoromethane
Concen: 48.685 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

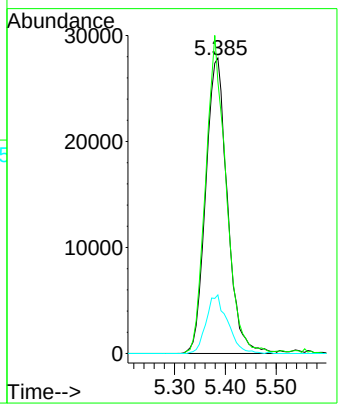
Tgt Ion:113 Resp: 82591

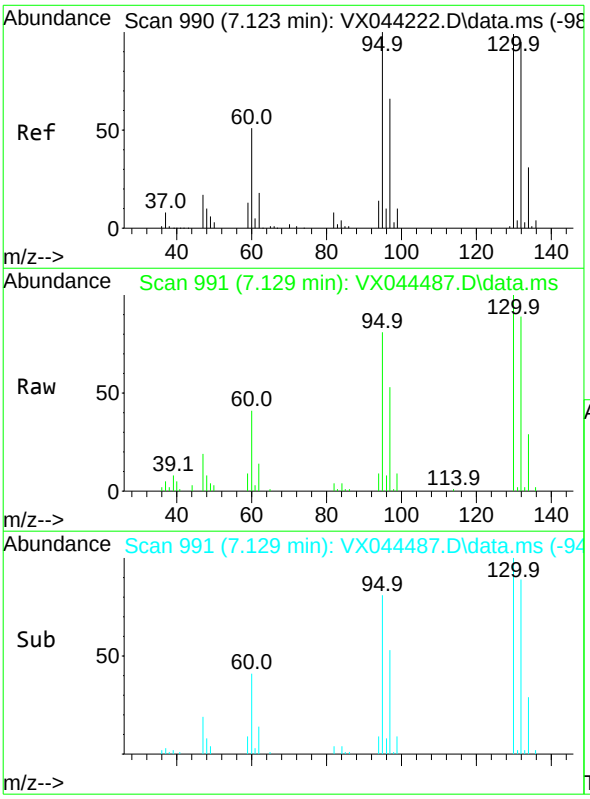
Ion	Ratio	Lower	Upper
113	100		
111	101.8	80.4	120.6
192	19.6	13.3	19.9

Instrument :
MSVOA_X
ClientSampleId :
DUP-04-20241216

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

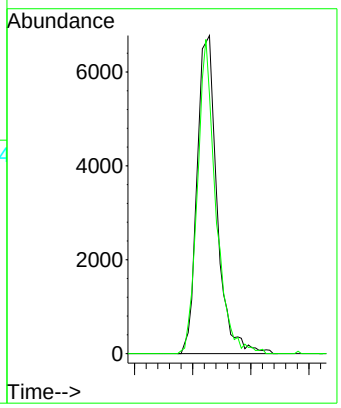


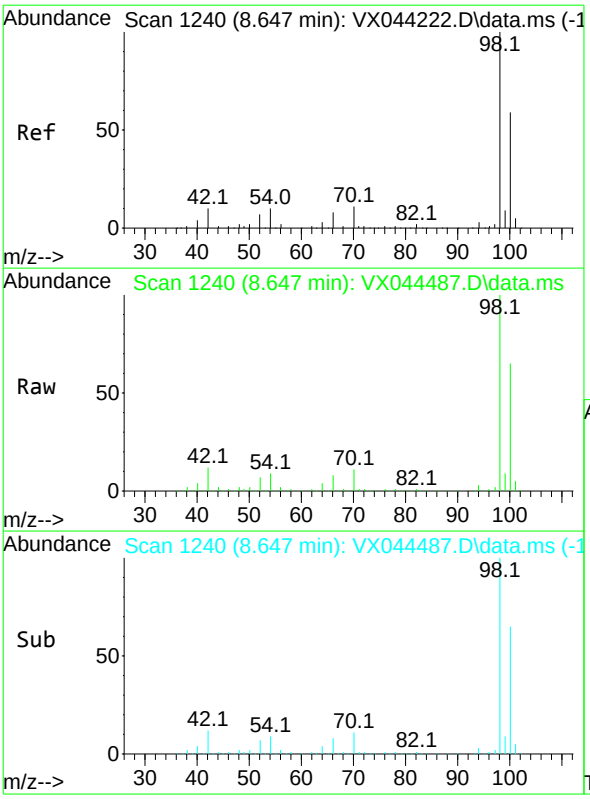


#44
Trichloroethene
Concen: 9.743 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

Tgt Ion:130 Resp: 16176

Ion	Ratio	Lower	Upper
130	100		
95	81.5	0.0	201.4





#50
Toluene-d8
Concen: 52.572 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

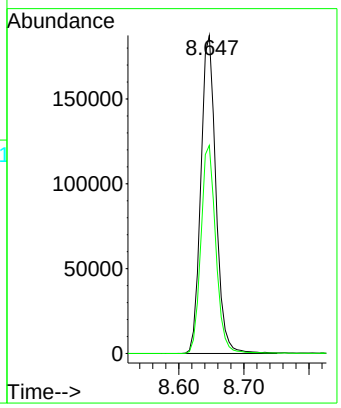
Tgt Ion: 98 Resp: 300884

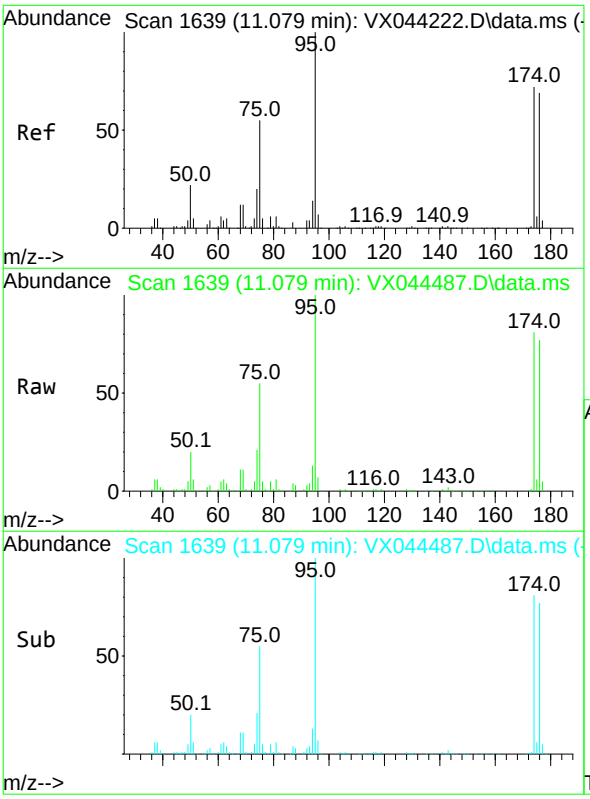
Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.5	77.3

Instrument :
MSVOA_X
ClientSampleId :
DUP-04-20241216

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

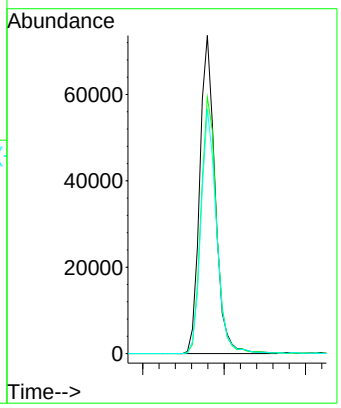


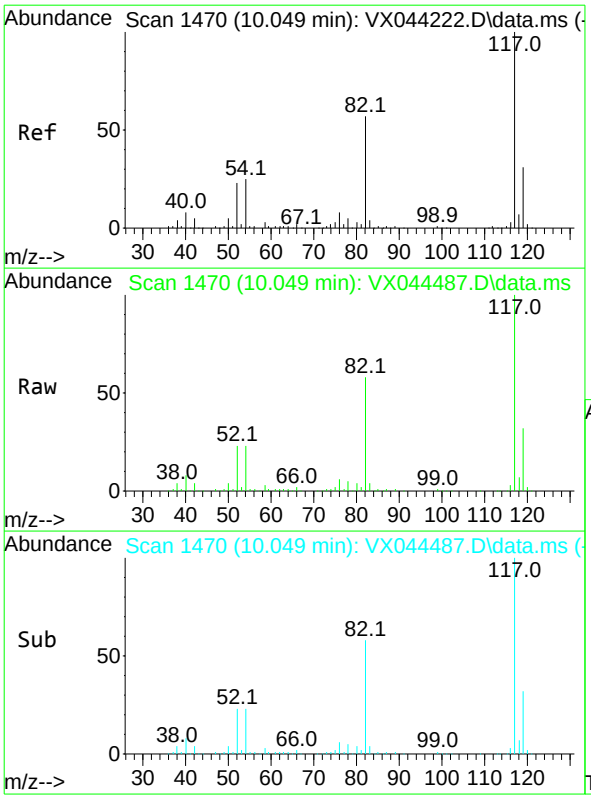


#62
4-Bromofluorobenzene
Concen: 48.423 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

Tgt Ion: 95 Resp: 96839

Ion	Ratio	Lower	Upper
95	100		
174	82.0	0.0	145.8
176	77.6	0.0	137.8

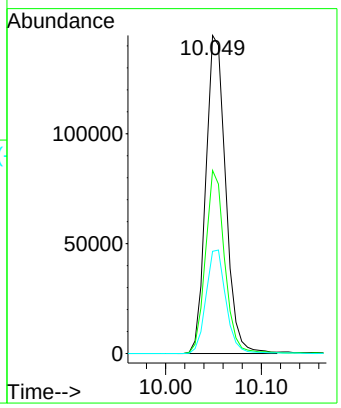




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

Tgt Ion:117 Resp: 208216

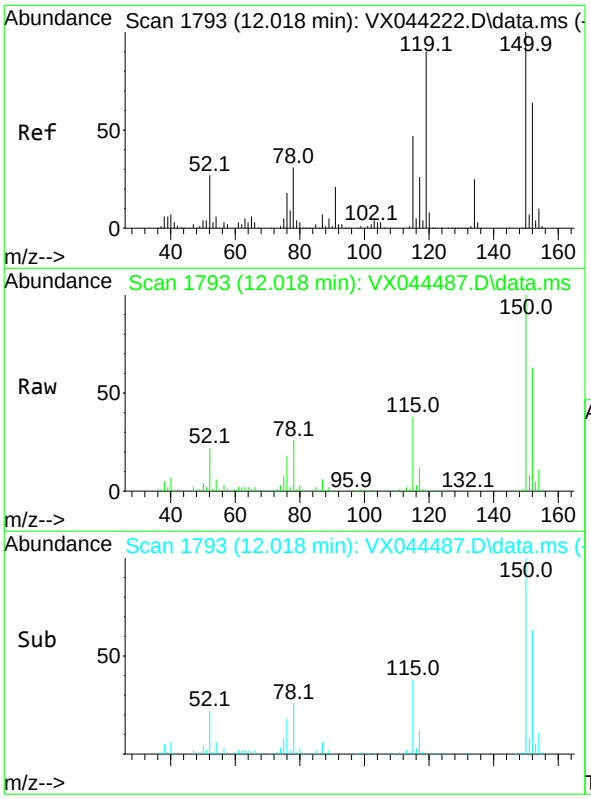
Ion	Ratio	Lower	Upper
117	100		
82	57.5	45.8	68.8
119	32.1	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
DUP-04-20241216

Manual Integrations
APPROVED

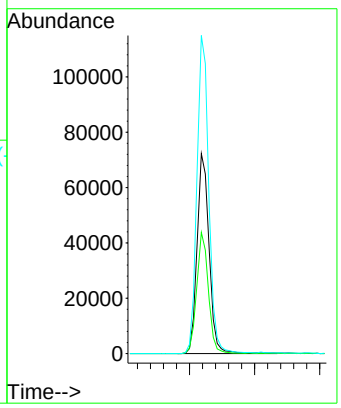
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044487.D
Acq: 23 Dec 2024 17:54

Tgt Ion:152 Resp: 92708

Ion	Ratio	Lower	Upper
152	100		
115	58.8	44.5	133.3
150	156.6	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW8-MW01S-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044406.D	1		12/19/24 02:10	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.62	J	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.60	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.35	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	6.30		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.62	J	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW8-MW01S-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044406.D	1		12/19/24 02:10	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.5		81 - 118		91%	SPK: 50
1868-53-7	Dibromofluoromethane	46.9		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	52.0		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	109000	5.544				
540-36-3	1,4-Difluorobenzene	196000	6.757				
3114-55-4	Chlorobenzene-d5	169000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	66600	12.024				

Raw Data: **VX044406.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW8-MW01S-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044406.D	1		12/19/24 02:10	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044406.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044406.D
Acq On : 19 Dec 2024 02:10
Operator : JC/MD
Sample : P5317-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01S-20241216

Quant Time: Dec 19 05:08:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	108582	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	195784	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	169226	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	66576	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	86639	45.509	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 91.020%			
35) Dibromofluoromethane	5.391	113	63576	46.886	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.780%			
50) Toluene-d8	8.647	98	237663	51.952	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.900%			
62) 4-Bromofluorobenzene	11.079	95	73978	46.279	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.560%			
Target Compounds						Qvalue
3) Chloromethane	1.294	50	996	0.620	ug/l #	79
16) Acetone	2.386	43	1253	1.614	ug/l	91
20) Methylene Chloride	2.794	84	504	0.346	ug/l #	69
44) Trichloroethene	7.147	130	823	0.620	ug/l	64

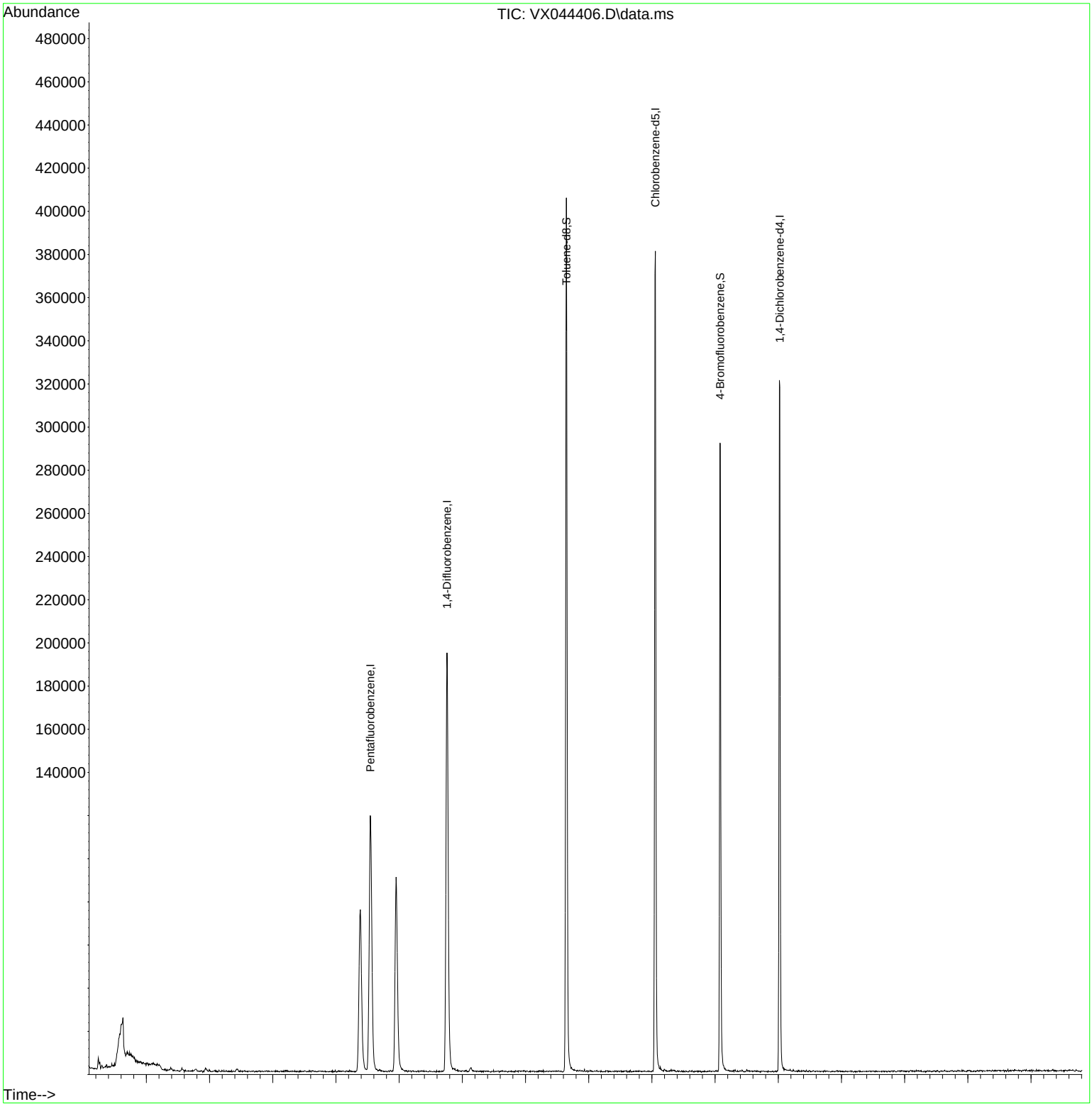
(#) = qualifier out of range (m) = manual integration (+) = signals summed

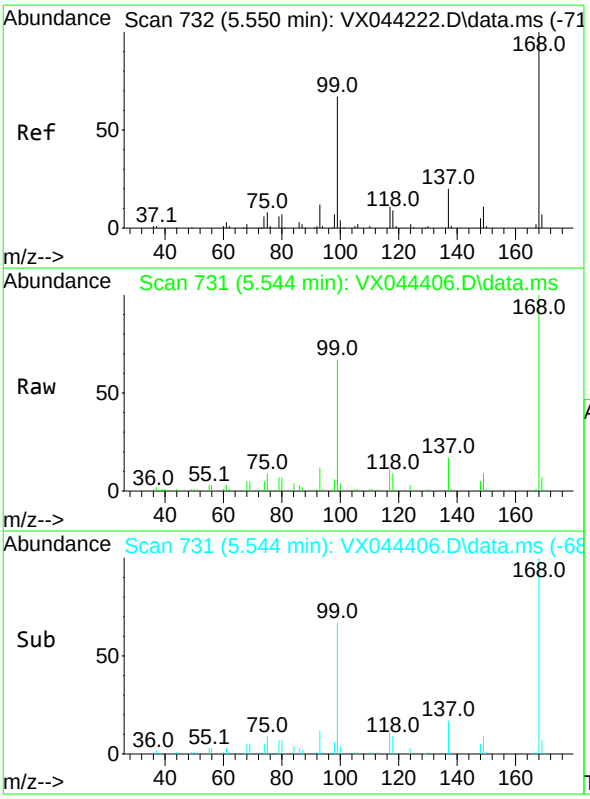
Sample Results: **VX044406.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044406.D
Acq On : 19 Dec 2024 02:10
Operator : JC/MD
Sample : P5317-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01S-20241216

Quant Time: Dec 19 05:08:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



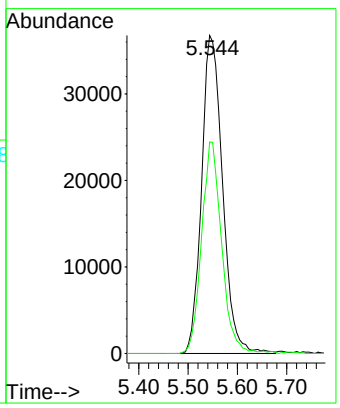


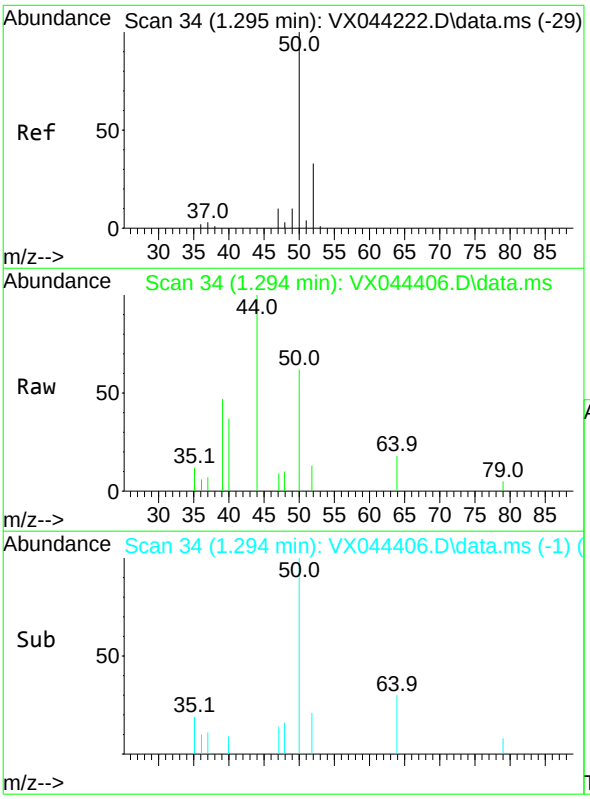
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044406.D
Acq: 19 Dec 2024 02:10

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01S-20241216

Tgt Ion:168 Resp: 108582

Ion	Ratio	Lower	Upper
168	100		
99	66.5	53.4	80.0

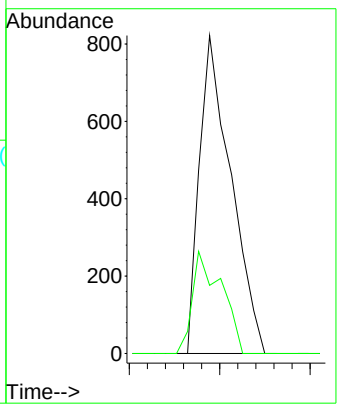


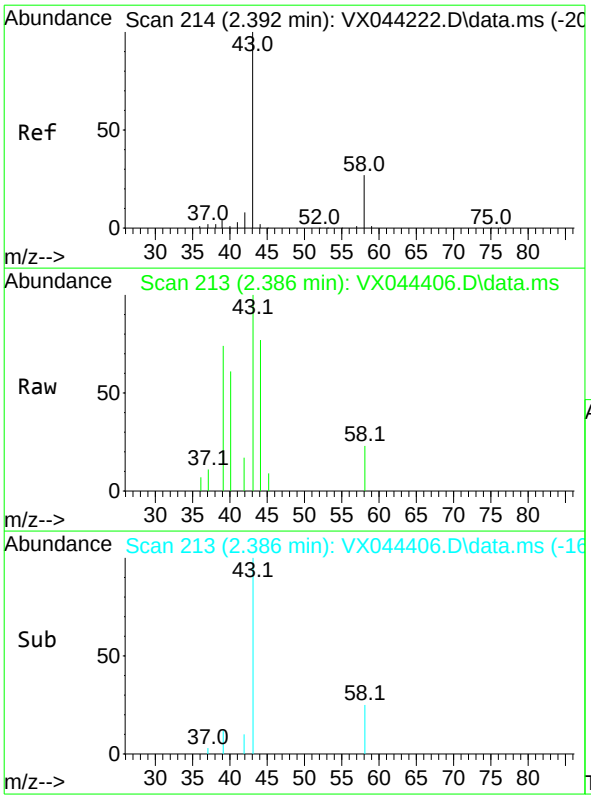


#3
Chloromethane
Concen: 0.620 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044406.D
Acq: 19 Dec 2024 02:10

Tgt Ion: 50 Resp: 996

Ion	Ratio	Lower	Upper
50	100		
52	21.4	26.5	39.7#



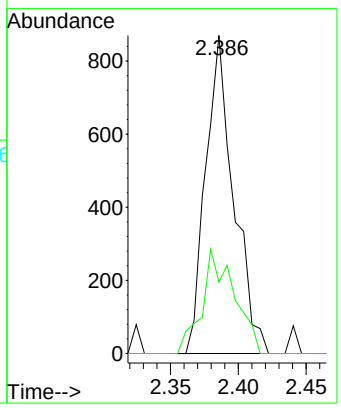


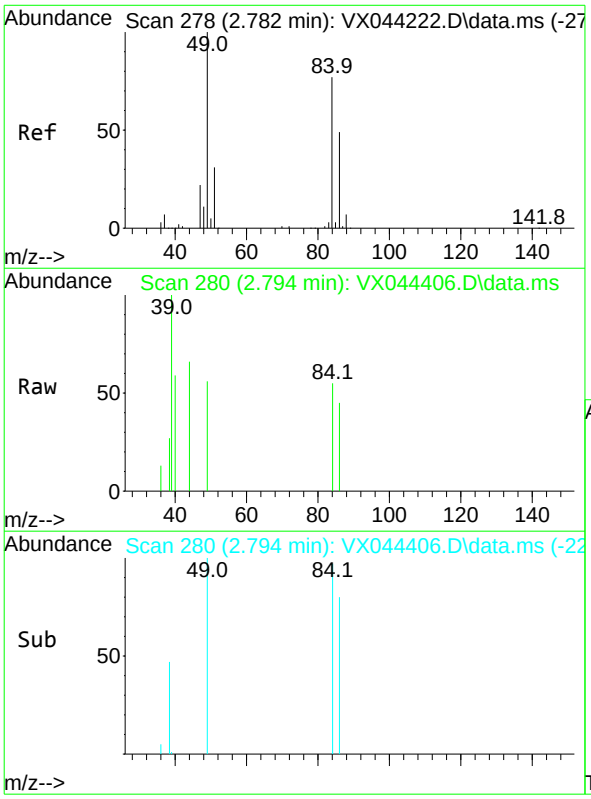
#16
Acetone
Concen: 1.614 ug/l
RT: 2.386 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX044406.D
Acq: 19 Dec 2024 02:10

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01S-20241216

Tgt Ion: 43 Resp: 1253

Ion	Ratio	Lower	Upper
43	100		
58	22.5	21.6	32.4

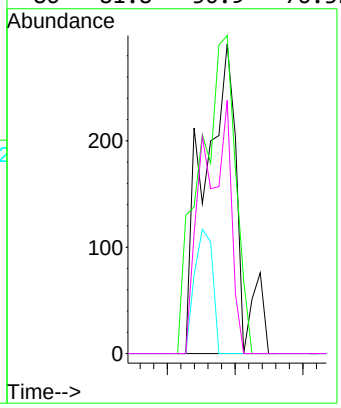


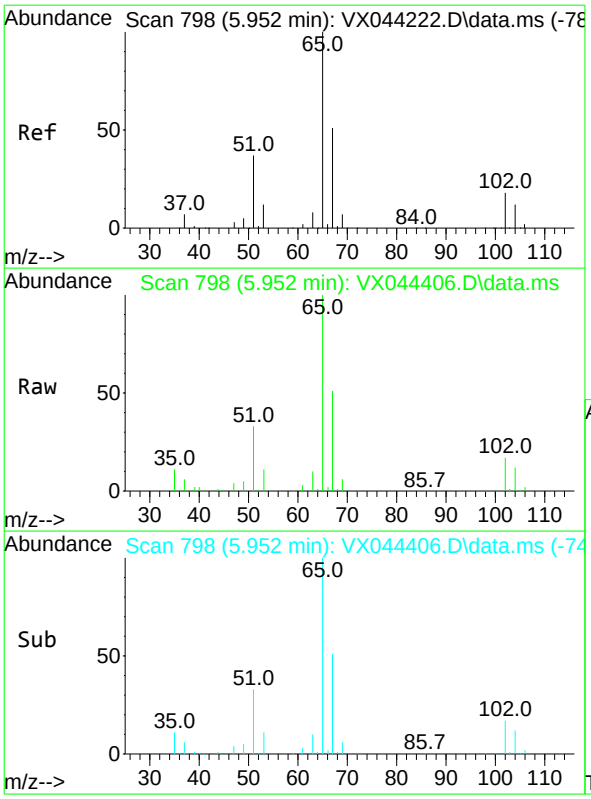


#20
Methylene Chloride
Concen: 0.346 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.012 min
Lab File: VX044406.D
Acq: 19 Dec 2024 02:10

Tgt Ion: 84 Resp: 504

Ion	Ratio	Lower	Upper
84	100		
49	102.7	104.2	156.4#
51	0.0	32.2	48.4#
86	81.8	50.9	76.3#



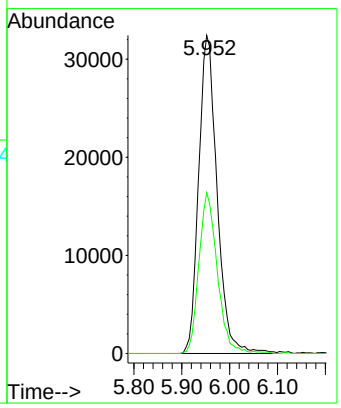


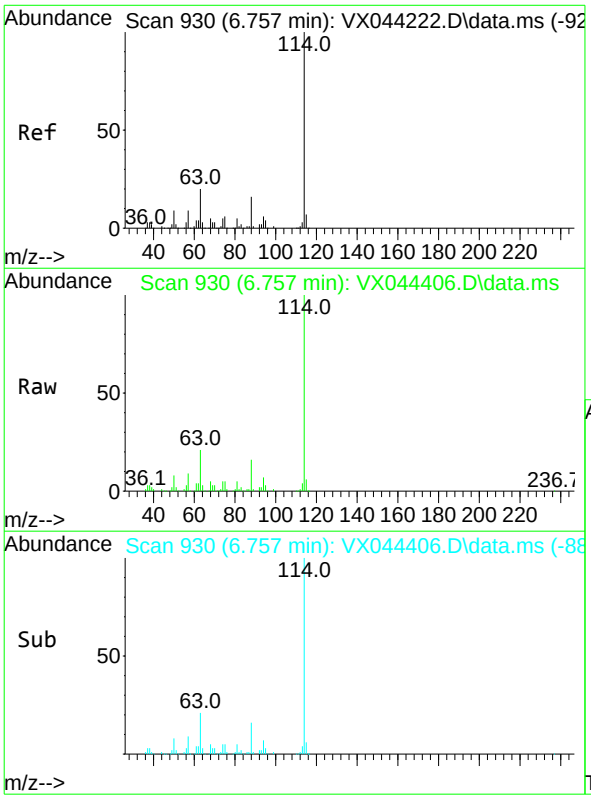
#33
1,2-Dichloroethane-d4
Concen: 45.509 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044406.D
Acq: 19 Dec 2024 02:10

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01S-20241216

Tgt Ion: 65 Resp: 86639

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	101.6

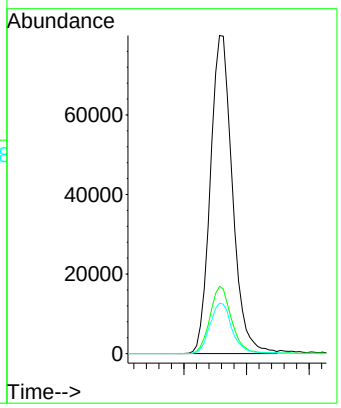


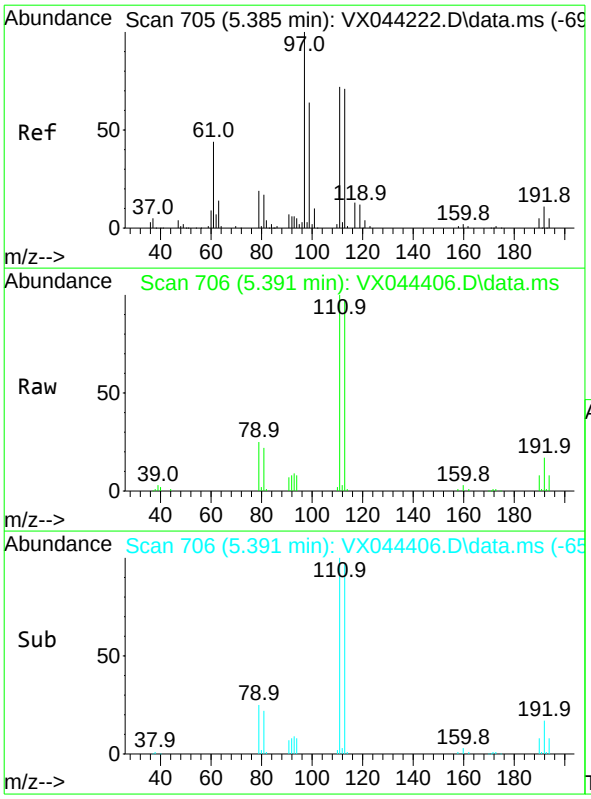


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044406.D
Acq: 19 Dec 2024 02:10

Tgt Ion:114 Resp: 195784

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	40.6
88	15.8	0.0	31.8



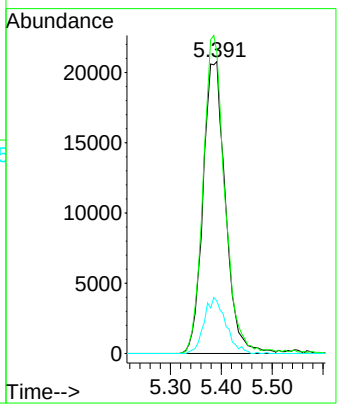


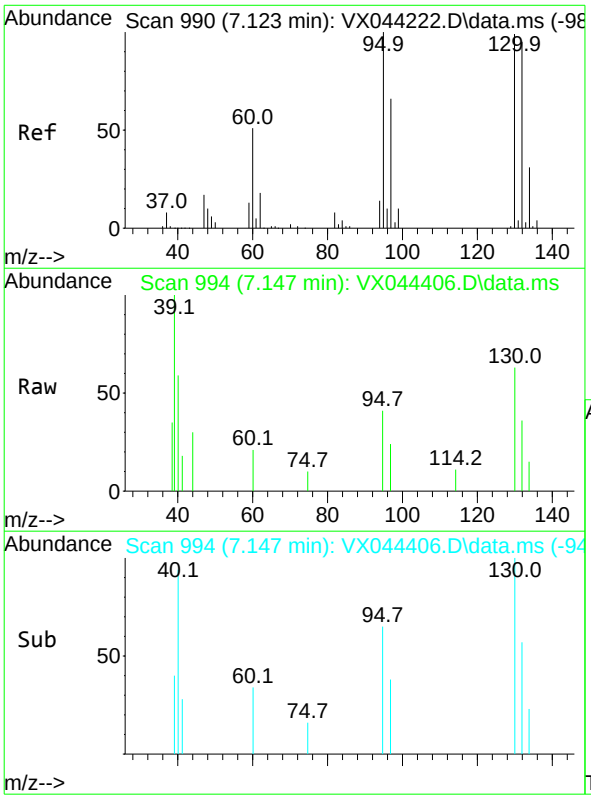
#35
Dibromofluoromethane
Concen: 46.886 ug/l
RT: 5.391 min Scan# 70
Delta R.T. 0.006 min
Lab File: VX044406.D
Acq: 19 Dec 2024 02:10

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01S-20241216

Tgt Ion:113 Resp: 63576

Ion	Ratio	Lower	Upper
113	100		
111	105.0	80.4	120.6
192	18.5	13.3	19.9

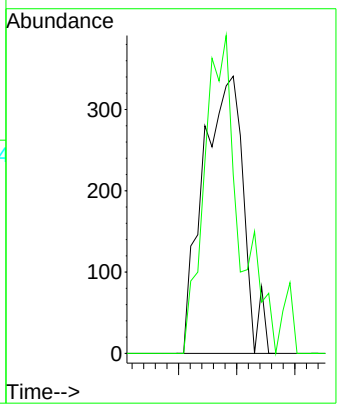


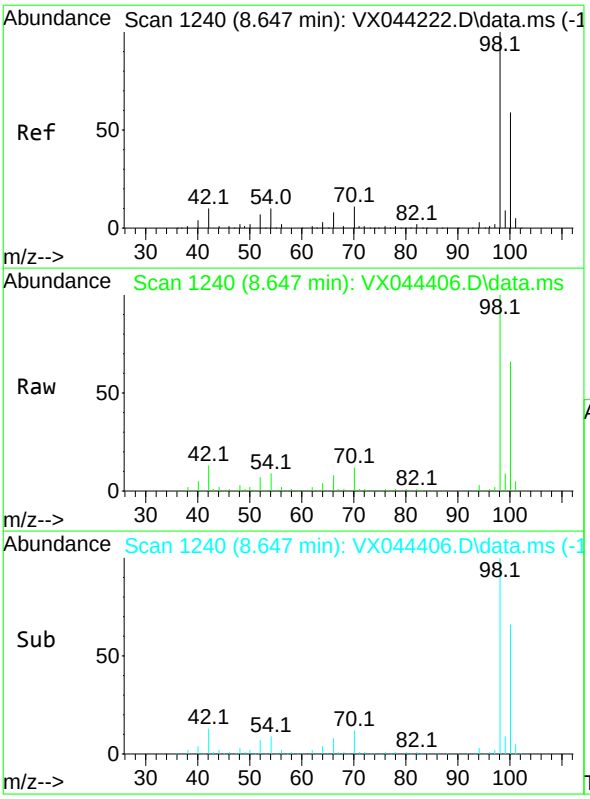


#44
Trichloroethene
Concen: 0.620 ug/l
RT: 7.147 min Scan# 994
Delta R.T. 0.024 min
Lab File: VX044406.D
Acq: 19 Dec 2024 02:10

Tgt Ion:130 Resp: 823

Ion	Ratio	Lower	Upper
130	100		
95	64.5	0.0	201.4



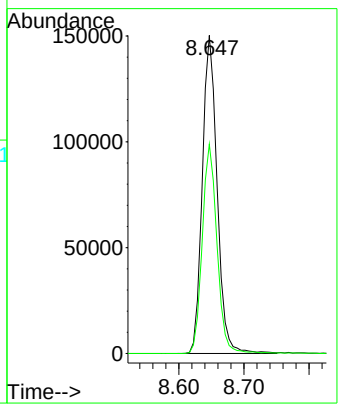


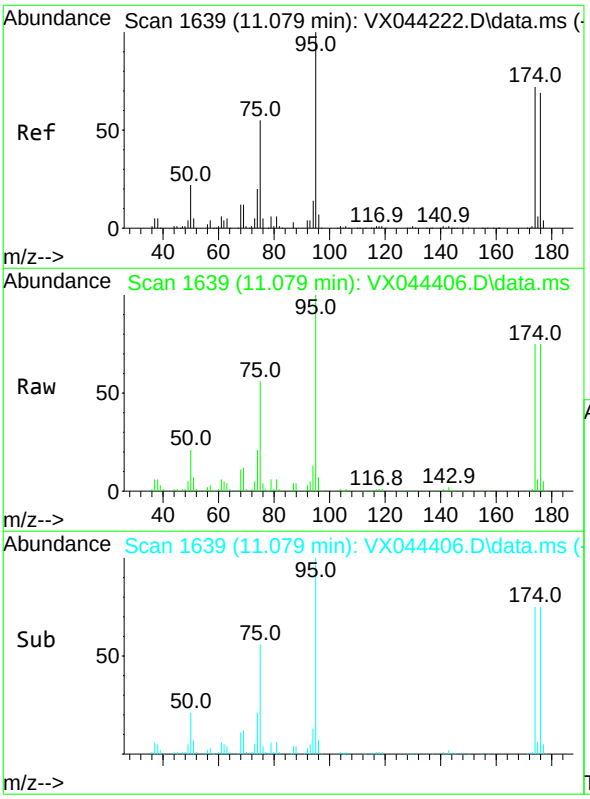
#50
Toluene-d8
Concen: 51.952 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044406.D
Acq: 19 Dec 2024 02:10

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01S-20241216

Tgt Ion: 98 Resp: 237663

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.5	77.3

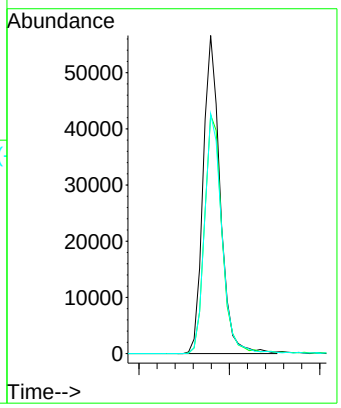


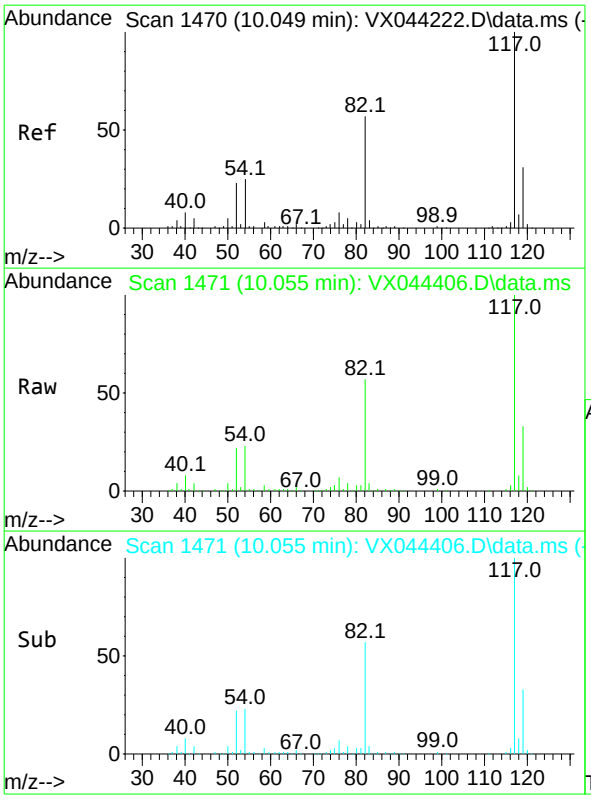


#62
4-Bromofluorobenzene
Concen: 46.279 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044406.D
Acq: 19 Dec 2024 02:10

Tgt Ion: 95 Resp: 73978

Ion	Ratio	Lower	Upper
95	100		
174	77.3	0.0	145.8
176	76.5	0.0	137.8



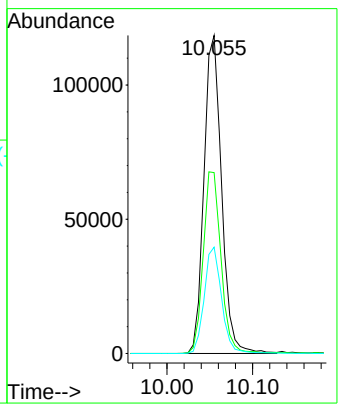


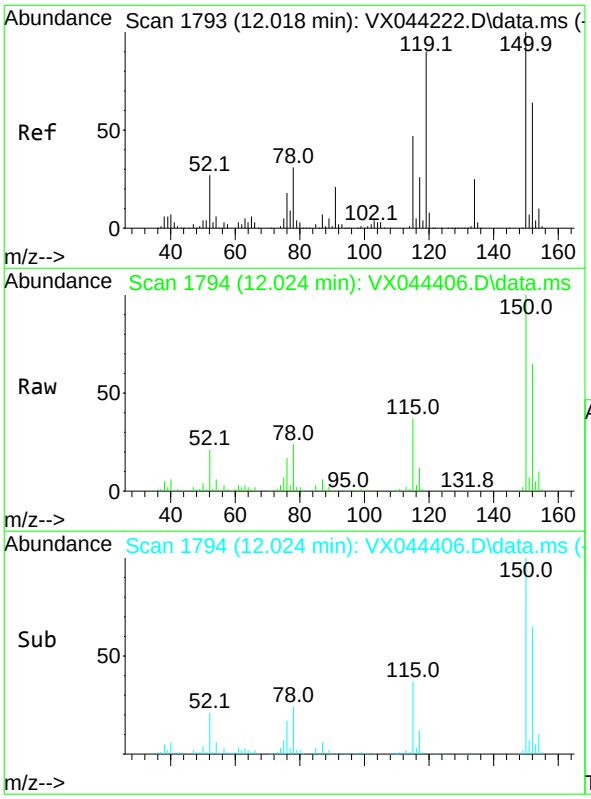
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044406.D
Acq: 19 Dec 2024 02:10

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01S-20241216

Tgt Ion:117 Resp: 169226

Ion	Ratio	Lower	Upper
117	100		
82	56.9	45.8	68.8
119	33.4	25.0	37.4

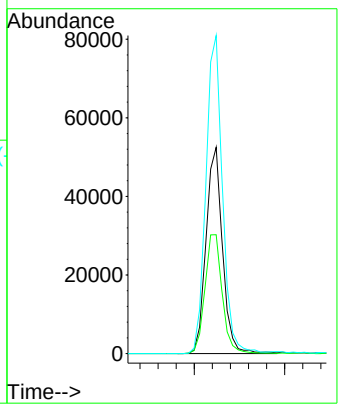




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044406.D
Acq: 19 Dec 2024 02:10

Tgt Ion:152 Resp: 66576

Ion	Ratio	Lower	Upper
152	100		
115	60.4	44.5	133.3
150	154.6	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW8-MW01D1-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044407.D	1		12/19/24 02:34	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	6.60		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.34	J	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Raw Data: **VX044407.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW8-MW01D1-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044407.D	1		12/19/24 02:34	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.0		81 - 118		90%	SPK: 50
1868-53-7	Dibromofluoromethane	46.3		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	51.2		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	112000	5.55				
540-36-3	1,4-Difluorobenzene	206000	6.757				
3114-55-4	Chlorobenzene-d5	179000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	71500	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/16/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW8-MW01D1-20241216	SDG No.:	P5317
Lab Sample ID:	P5317-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044407.D	1		12/19/24 02:34	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044407.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044407.D
Acq On : 19 Dec 2024 02:34
Operator : JC/MD
Sample : P5317-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D1-20241216

Quant Time: Dec 19 05:09:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	111969	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	205674	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	179449	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	71479	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	88393	45.025	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 90.060%			
35) Dibromofluoromethane	5.385	113	65958	46.303	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.600%			
50) Toluene-d8	8.647	98	246011	51.191	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.380%			
62) 4-Bromofluorobenzene	11.079	95	77014	45.862	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.720%			
Target Compounds						Qvalue
16) Acetone	2.386	43	842	1.052	ug/l #	68
44) Trichloroethene	7.129	130	478	0.343	ug/l	87

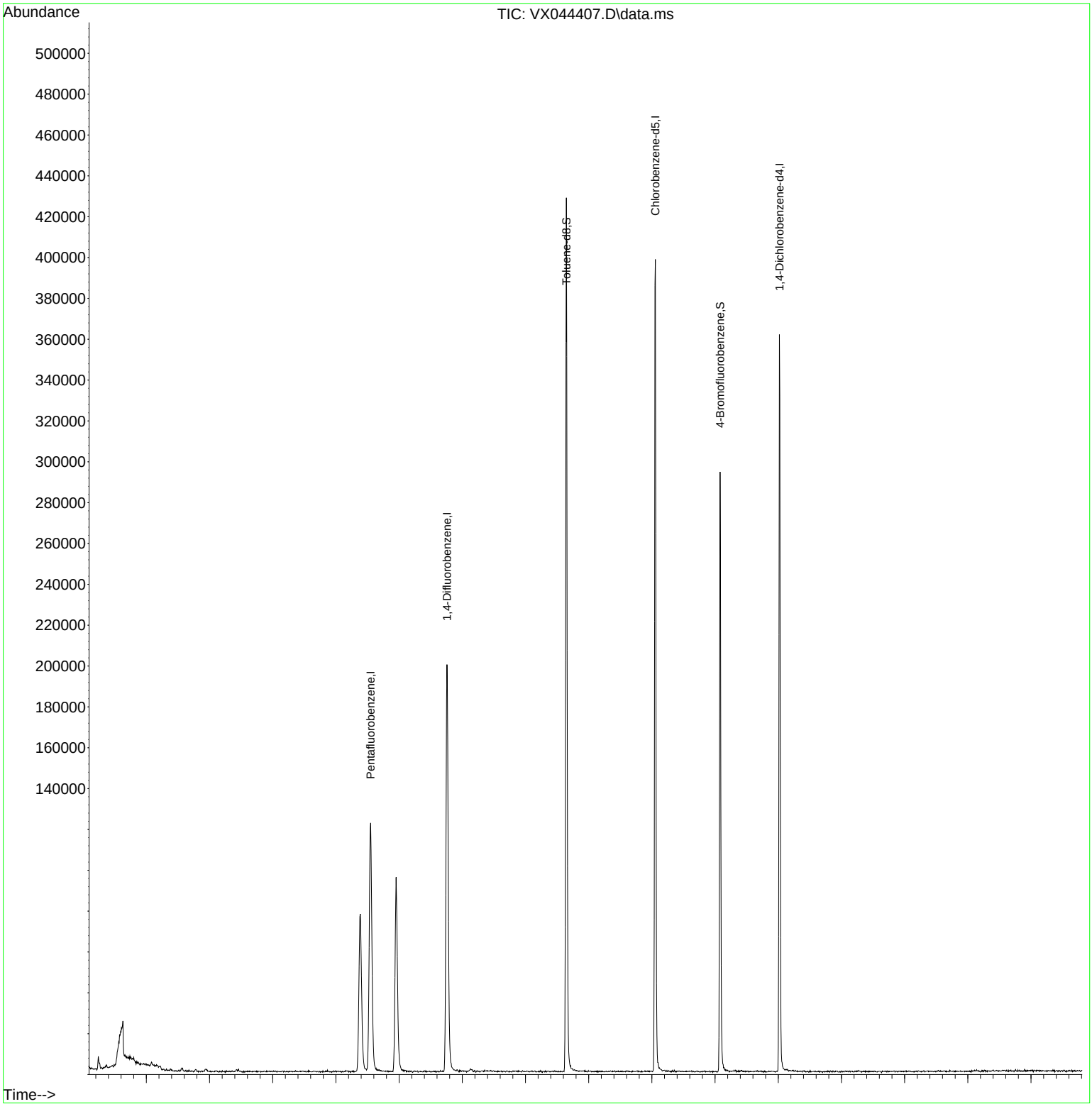
(#) = qualifier out of range (m) = manual integration (+) = signals summed

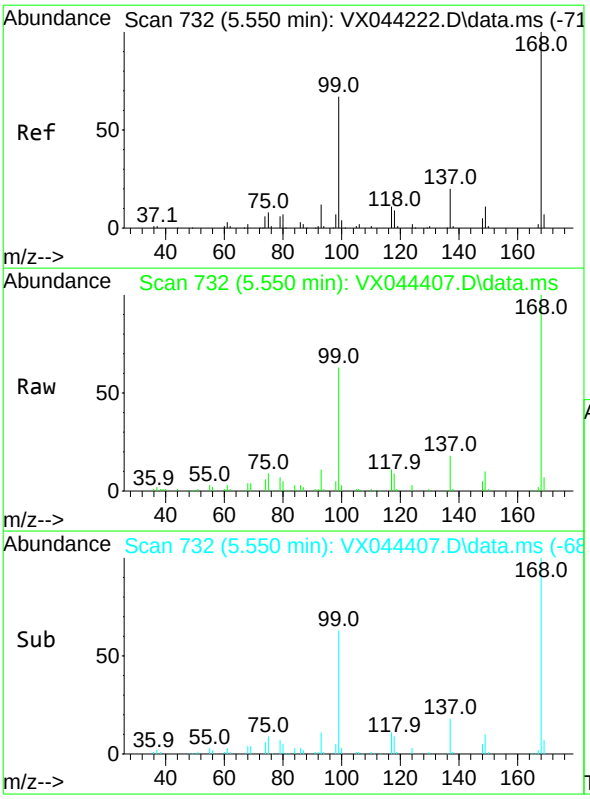
Sample Results: **VX044407.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044407.D
Acq On : 19 Dec 2024 02:34
Operator : JC/MD
Sample : P5317-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D1-20241216

Quant Time: Dec 19 05:09:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



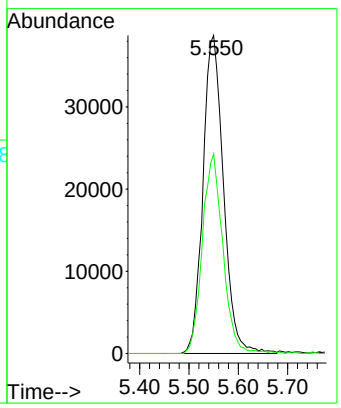


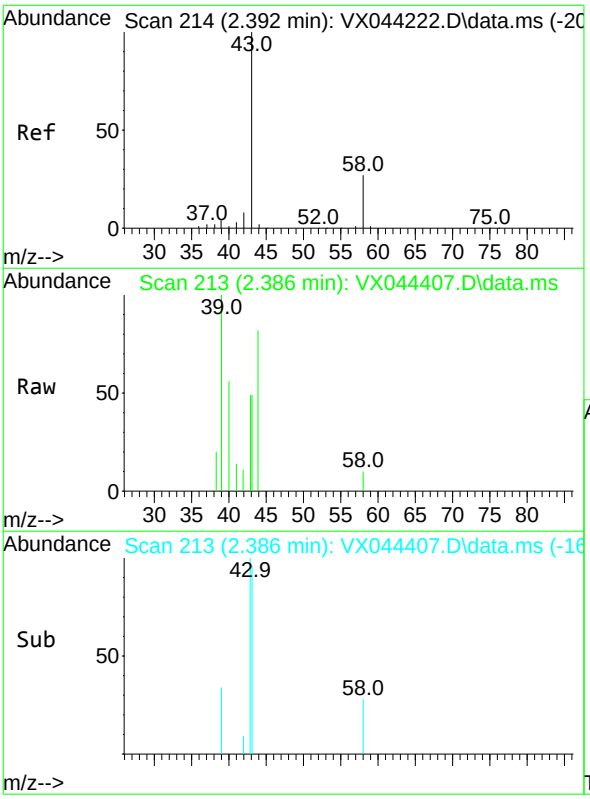
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044407.D
Acq: 19 Dec 2024 02:34

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D1-20241216

Tgt Ion:168 Resp: 111969

Ion	Ratio	Lower	Upper
168	100		
99	62.8	53.4	80.0

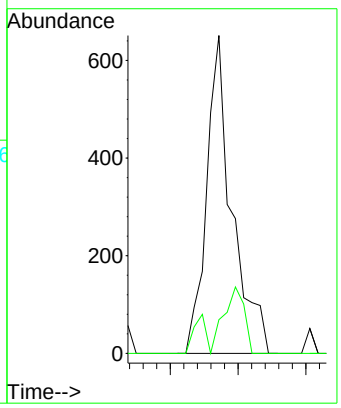


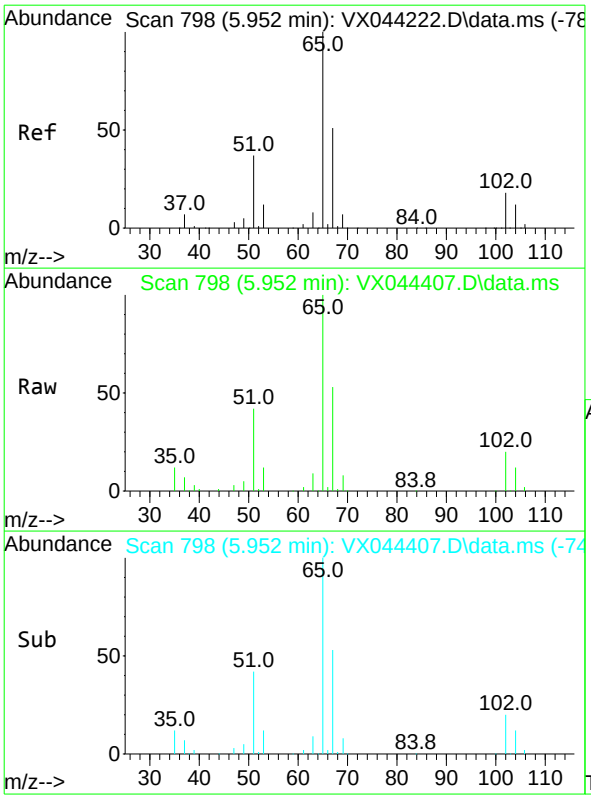


#16
Acetone
Concen: 1.052 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044407.D
Acq: 19 Dec 2024 02:34

Tgt Ion: 43 Resp: 842

Ion	Ratio	Lower	Upper
43	100		
58	10.6	21.6	32.4#



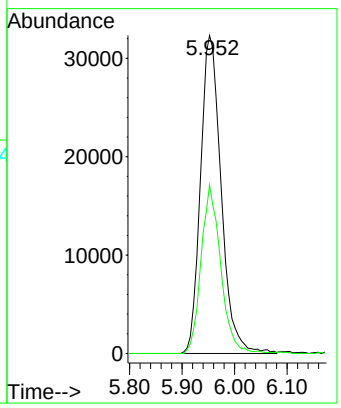


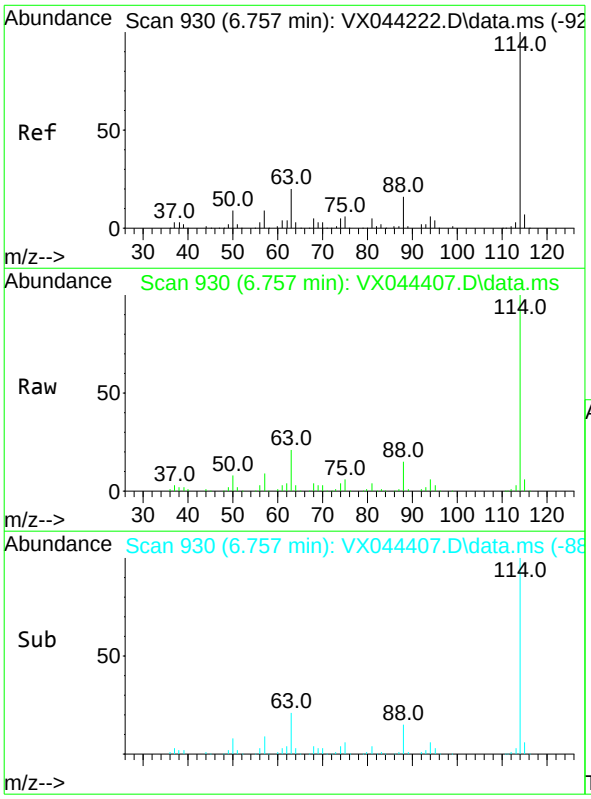
#33
1,2-Dichloroethane-d4
Concen: 45.025 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.000 min
Lab File: VX044407.D
Acq: 19 Dec 2024 02:34

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D1-20241216

Tgt Ion: 65 Resp: 88393

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	101.6

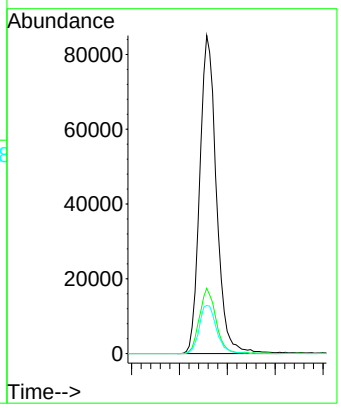


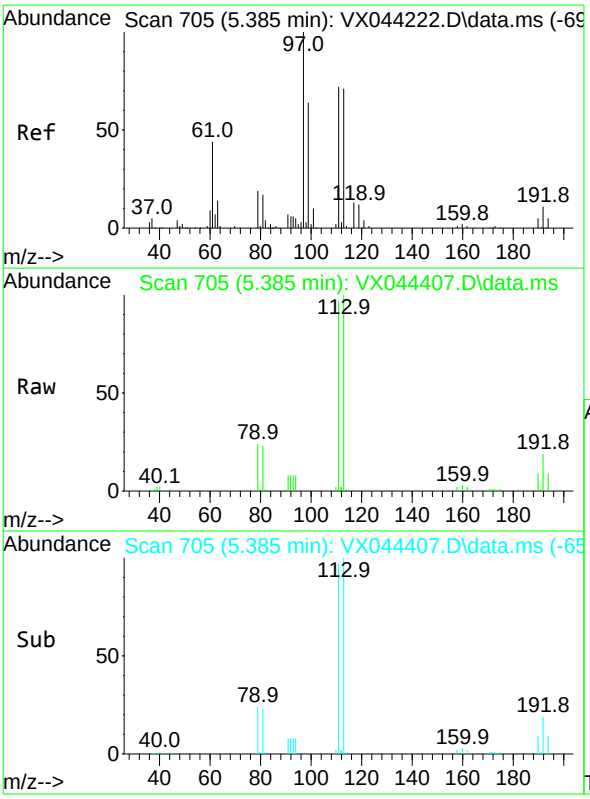


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044407.D
Acq: 19 Dec 2024 02:34

Tgt Ion:114 Resp: 205674

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	40.6
88	15.1	0.0	31.8



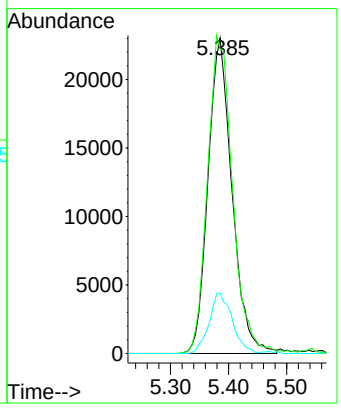


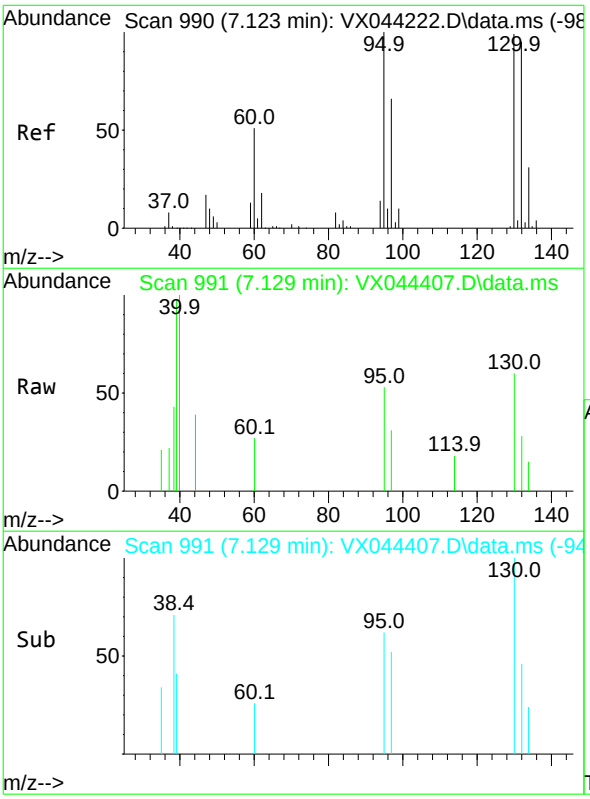
#35
Dibromofluoromethane
Concen: 46.303 ug/l
RT: 5.385 min Scan# 70
Delta R.T. 0.000 min
Lab File: VX044407.D
Acq: 19 Dec 2024 02:34

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D1-20241216

Tgt Ion:113 Resp: 65958

Ion	Ratio	Lower	Upper
113	100		
111	105.5	80.4	120.6
192	18.6	13.3	19.9

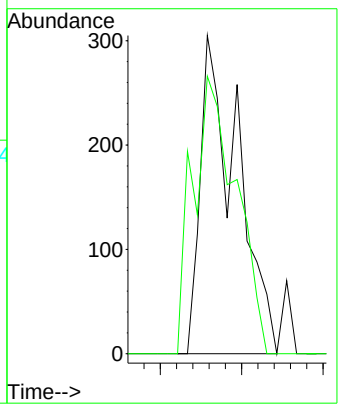


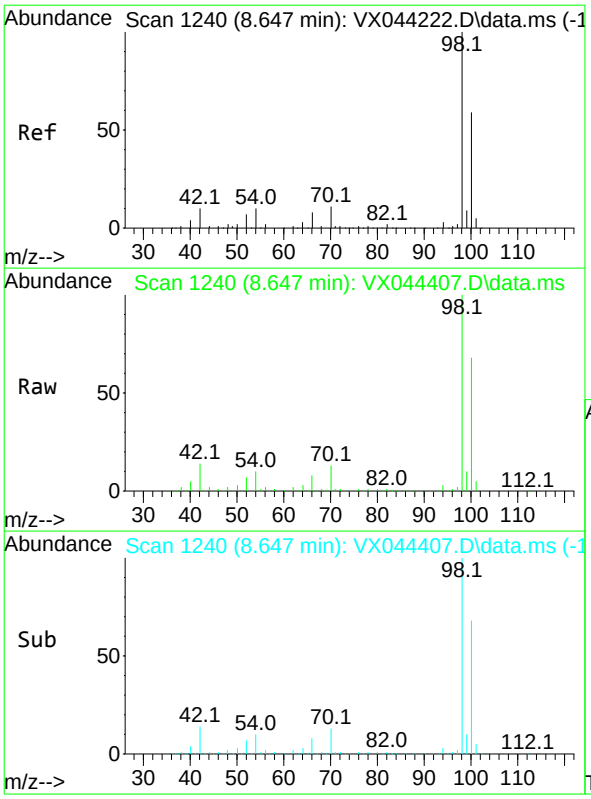


#44
Trichloroethene
Concen: 0.343 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX044407.D
Acq: 19 Dec 2024 02:34

Tgt Ion:130 Resp: 478

Ion	Ratio	Lower	Upper
130	100		
95	87.2	0.0	201.4



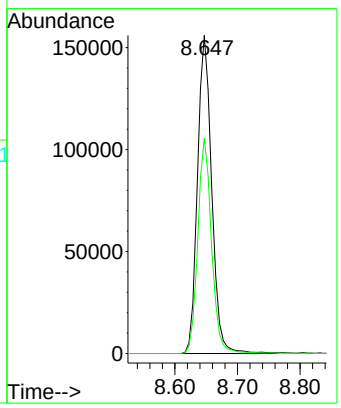


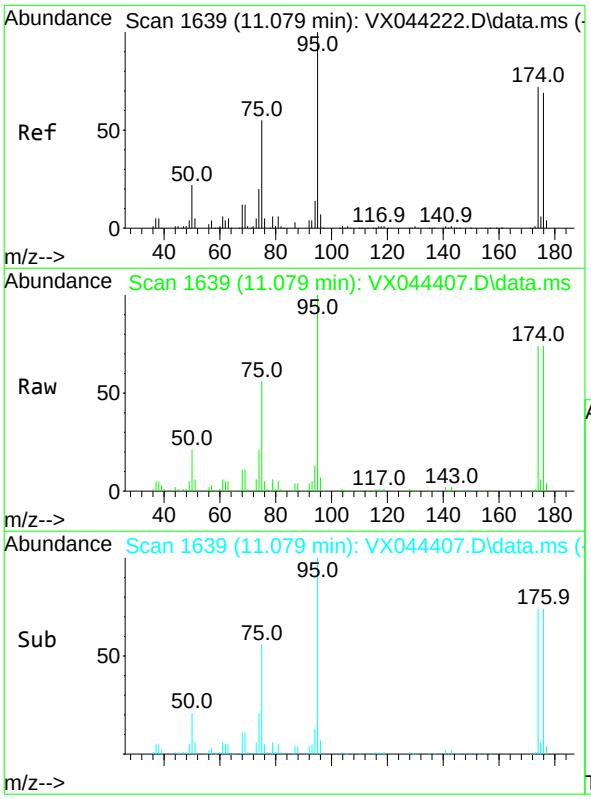
#50
Toluene-d8
Concen: 51.191 ug/l
RT: 8.647 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044407.D
Acq: 19 Dec 2024 02:34

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D1-20241216

Tgt Ion: 98 Resp: 246011

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.5	77.3

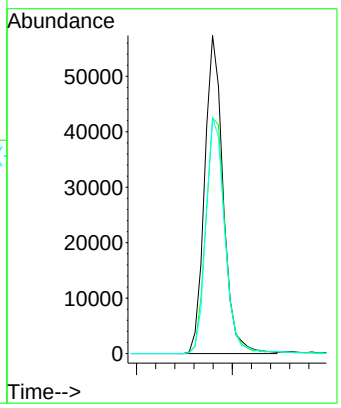


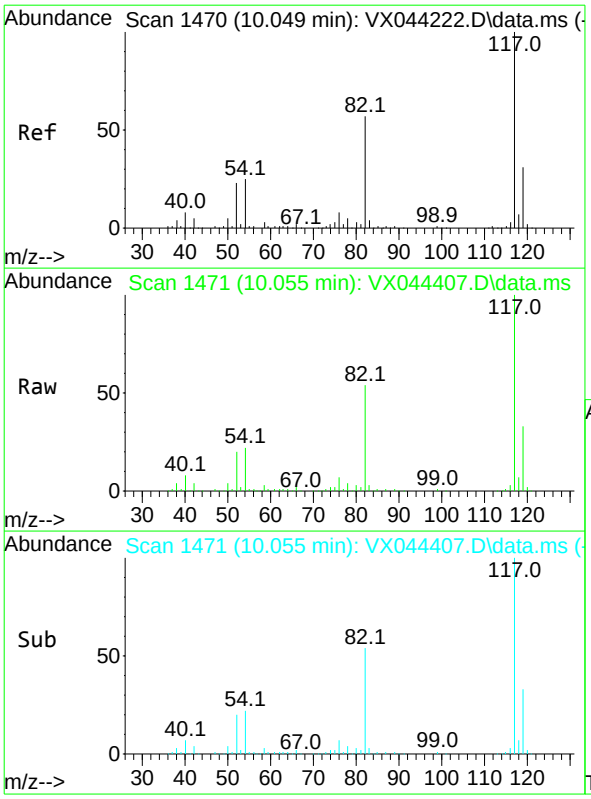


#62
4-Bromofluorobenzene
Concen: 45.862 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044407.D
Acq: 19 Dec 2024 02:34

Tgt Ion: 95 Resp: 77014

Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	145.8
176	76.1	0.0	137.8



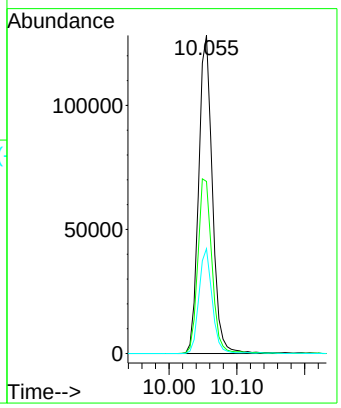


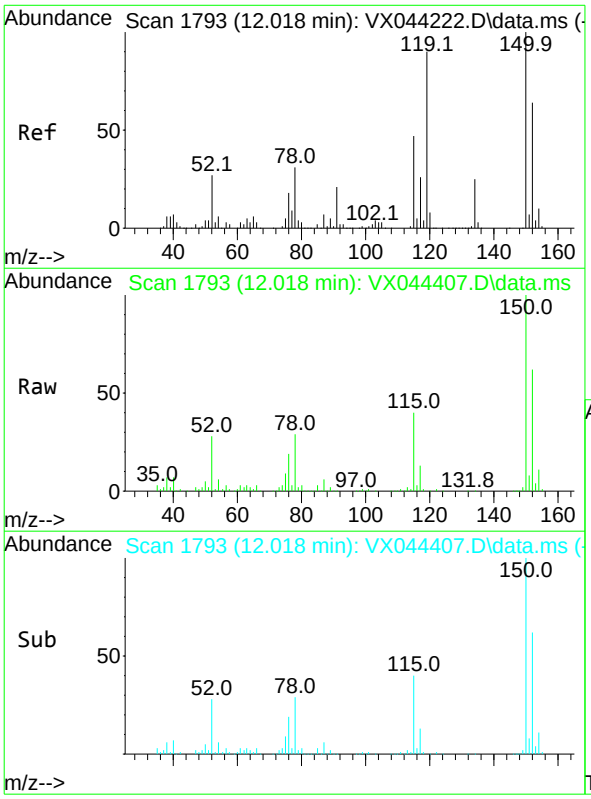
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044407.D
Acq: 19 Dec 2024 02:34

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D1-20241216

Tgt Ion:117 Resp: 179449

Ion	Ratio	Lower	Upper
117	100		
82	54.1	45.8	68.8
119	32.9	25.0	37.4

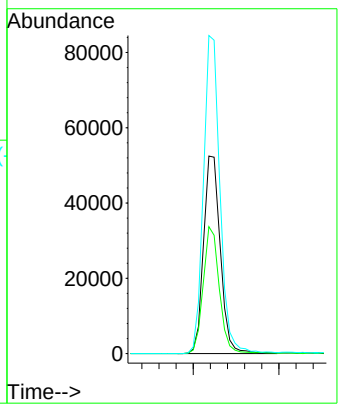




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044407.D
Acq: 19 Dec 2024 02:34

Tgt Ion:152 Resp: 71479

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.5	133.3
150	158.1	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT158S1-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044408.D	1		12/19/24 02:57	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.32	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.80		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	6.50		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.32	J	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT158S1-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044408.D	1		12/19/24 02:57	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.4		81 - 118		91%	SPK: 50
1868-53-7	Dibromofluoromethane	47.3		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	51.6		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.6		85 - 114		89%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	107000	5.55				
540-36-3	1,4-Difluorobenzene	197000	6.757				
3114-55-4	Chlorobenzene-d5	171000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	65700	12.024				

Raw Data: **VX044408.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT158S1-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044408.D	1		12/19/24 02:57	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044408.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044408.D
Acq On : 19 Dec 2024 02:57
Operator : JC/MD
Sample : P5317-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT158S1-20241217

Quant Time: Dec 19 05:09:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

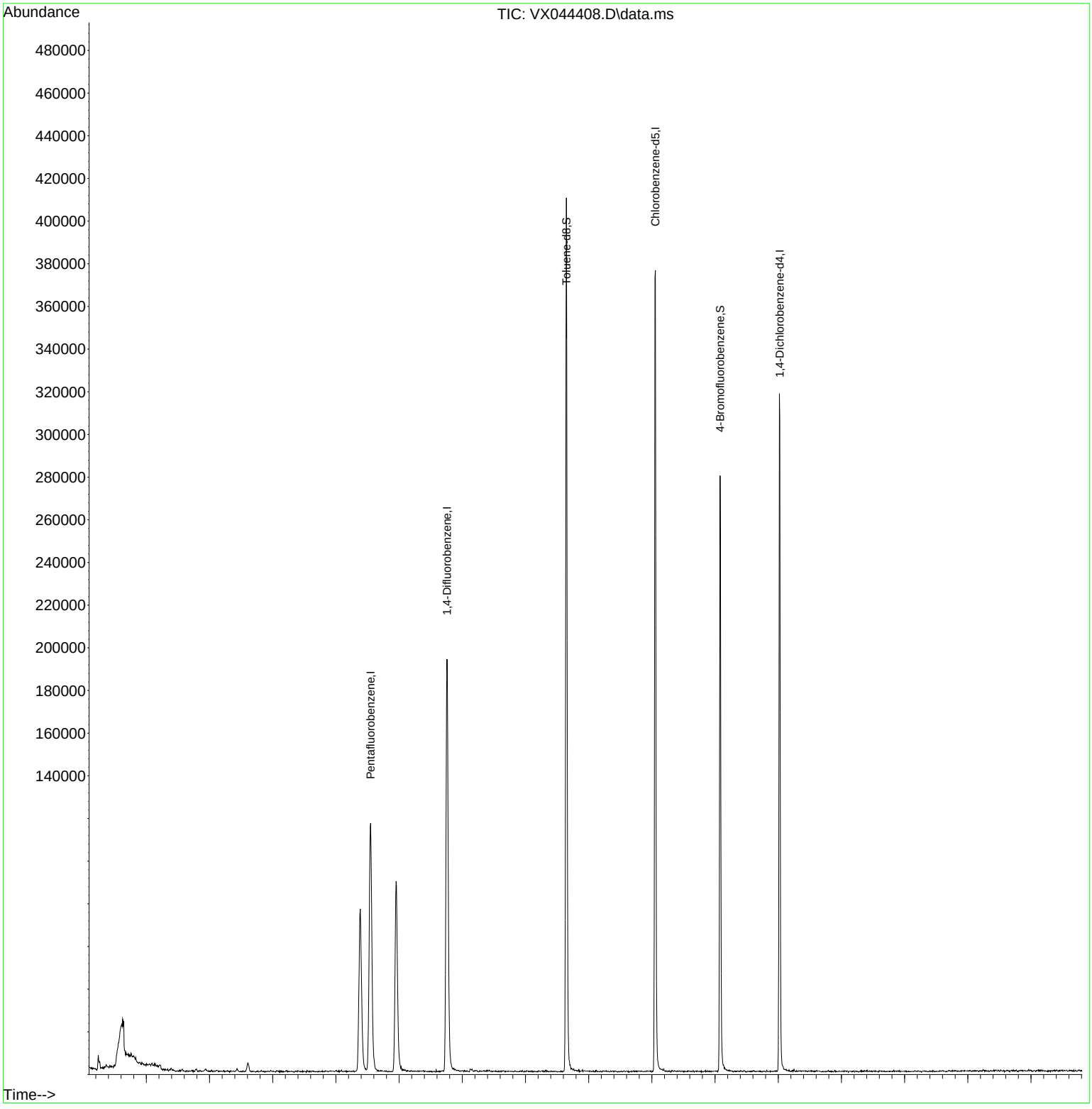
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	107112	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	197035	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	171282	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	65660	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	85326	45.434	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 90.860%			
35) Dibromofluoromethane	5.385	113	64525	47.283	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.560%			
50) Toluene-d8	8.647	98	237364	51.557	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.120%			
62) 4-Bromofluorobenzene	11.079	95	71738	44.593	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.180%			
Target Compounds						Qvalue
16) Acetone	2.392	43	979	1.279	ug/l #	52
20) Methylene Chloride	2.776	84	453	0.315	ug/l #	78
24) 1,1-Dichloroethane	3.605	63	4471	1.781	ug/l #	92
44) Trichloroethene	7.141	130	431	0.323	ug/l	80

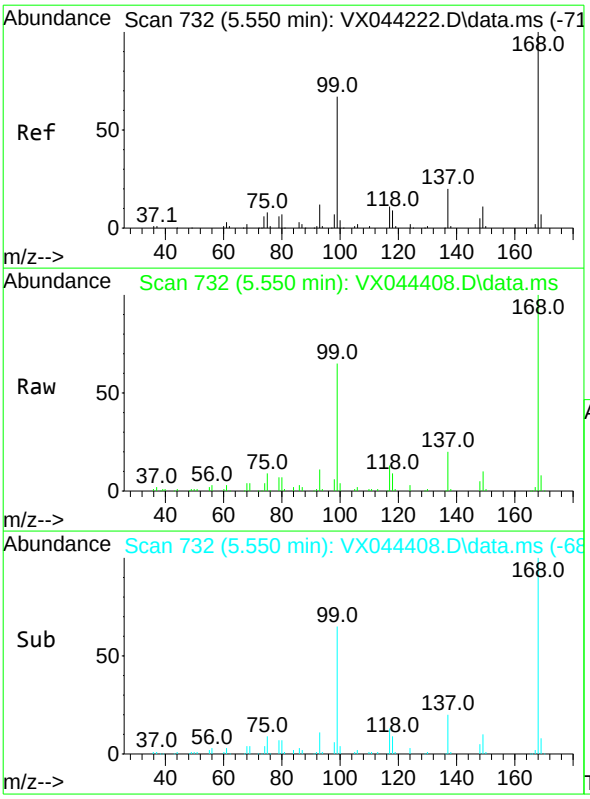
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044408.D
Acq On : 19 Dec 2024 02:57
Operator : JC/MD
Sample : P5317-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT158S1-20241217

Quant Time: Dec 19 05:09:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



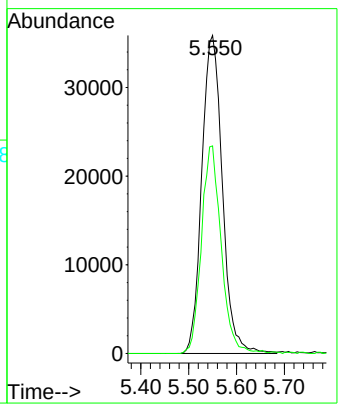


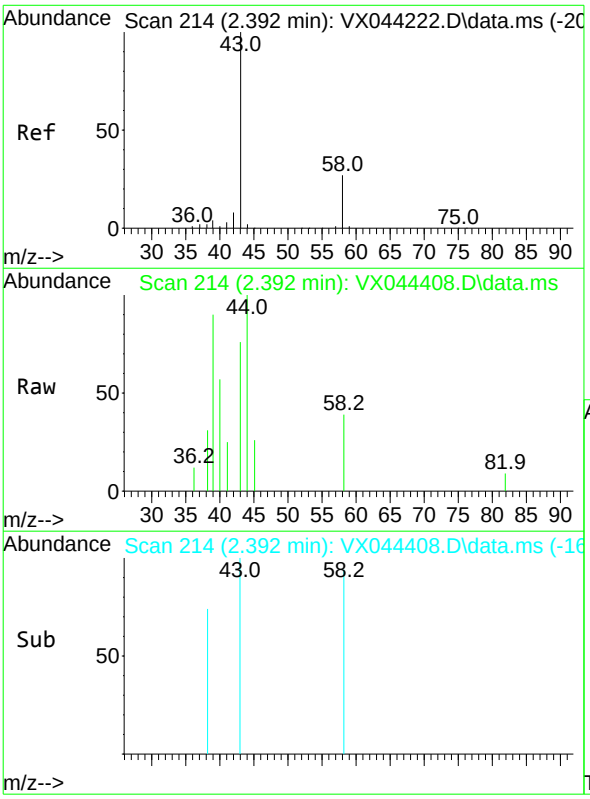
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044408.D
Acq: 19 Dec 2024 02:57

Instrument :
MSVOA_X
ClientSampleId :
TT158S1-20241217

Tgt Ion:168 Resp: 107112

Ion	Ratio	Lower	Upper
168	100		
99	65.3	53.4	80.0

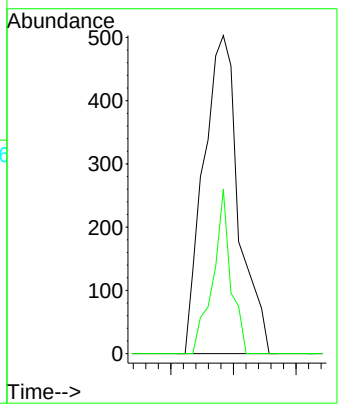


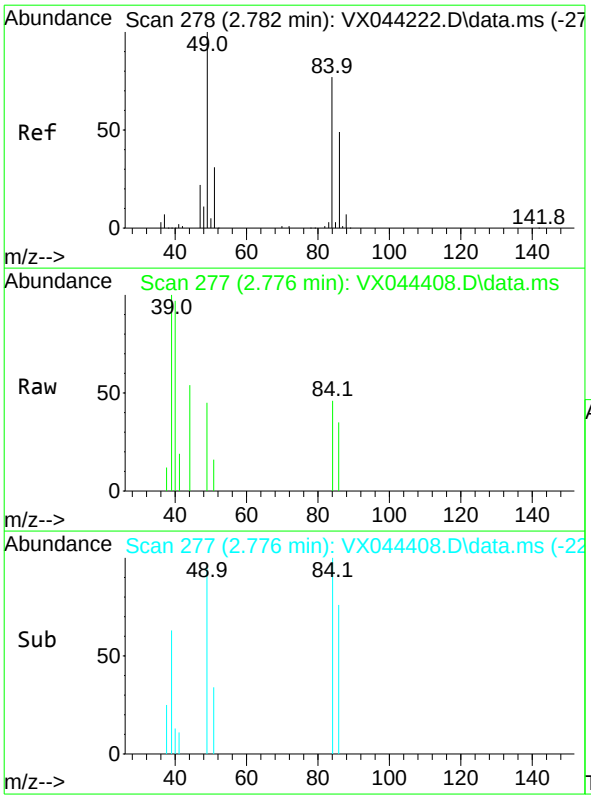


#16
Acetone
Concen: 1.279 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX044408.D
Acq: 19 Dec 2024 02:57

Tgt Ion: 43 Resp: 979

Ion	Ratio	Lower	Upper
43	100		
58	51.7	21.6	32.4#



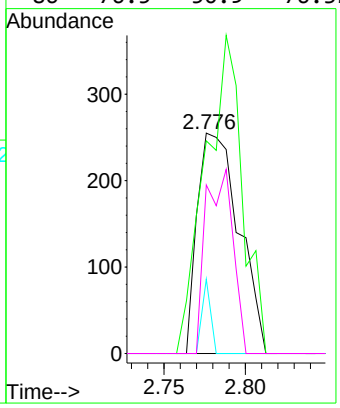


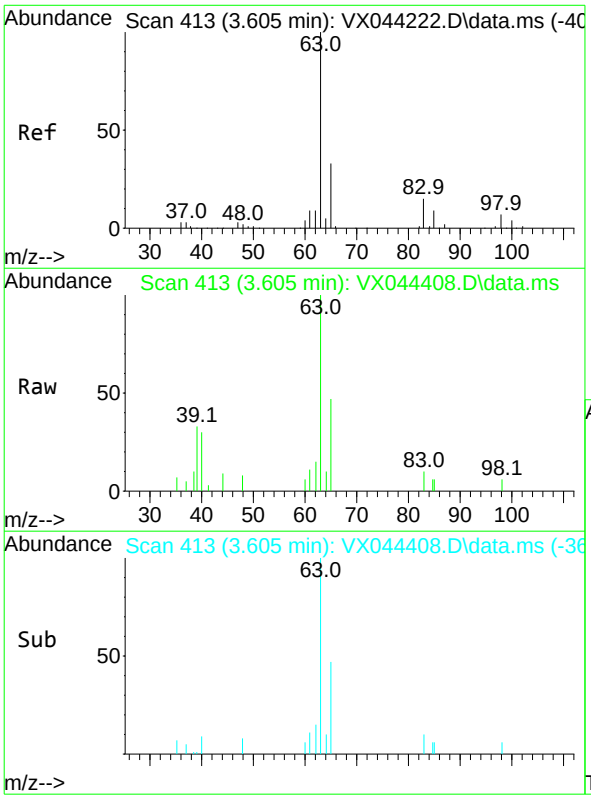
#20
Methylene Chloride
Concen: 0.315 ug/l
RT: 2.776 min Scan# 27
Delta R.T. -0.006 min
Lab File: VX044408.D
Acq: 19 Dec 2024 02:57

Instrument :
MSVOA_X
ClientSampleId :
TT158S1-20241217

Tgt Ion: 84 Resp: 453

Ion	Ratio	Lower	Upper
84	100		
49	96.5	104.2	156.4#
51	33.7	32.2	48.4
86	76.5	50.9	76.3#

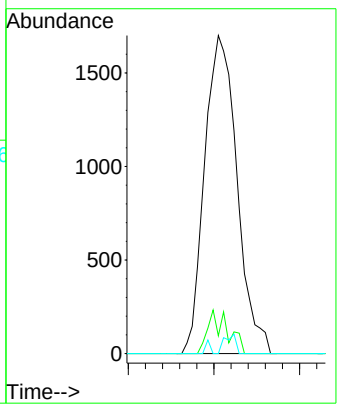


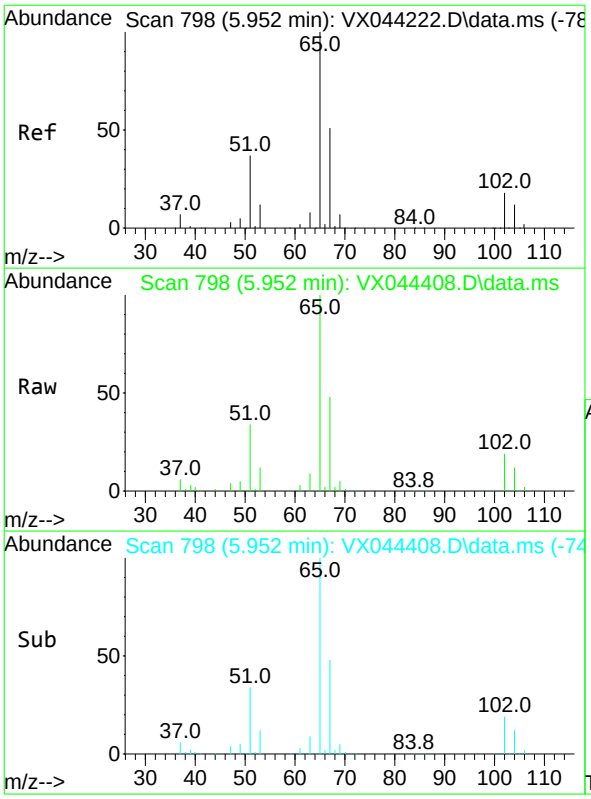


#24
1,1-Dichloroethane
Concen: 1.781 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044408.D
Acq: 19 Dec 2024 02:57

Tgt Ion: 63 Resp: 4471

Ion	Ratio	Lower	Upper
63	100		
98	5.6	3.6	10.8
100	0.0	2.1	6.3#



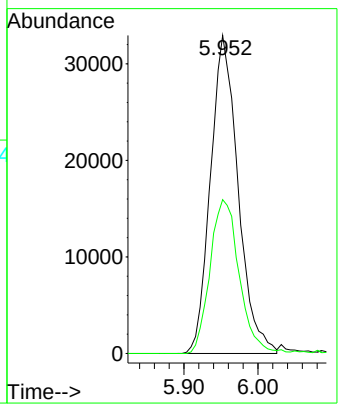


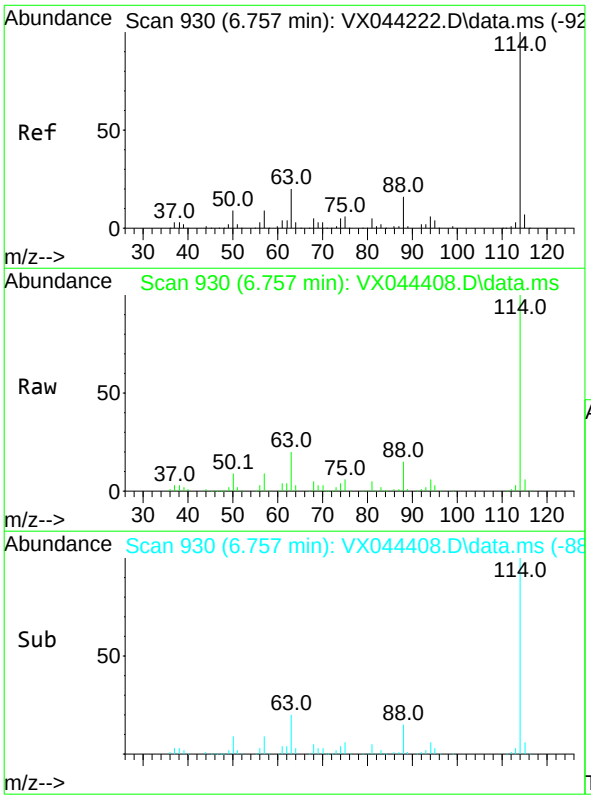
#33
1,2-Dichloroethane-d4
Concen: 45.434 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.000 min
Lab File: VX044408.D
Acq: 19 Dec 2024 02:57

Instrument :
MSVOA_X
ClientSampleId :
TT158S1-20241217

Tgt Ion: 65 Resp: 85326

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	101.6

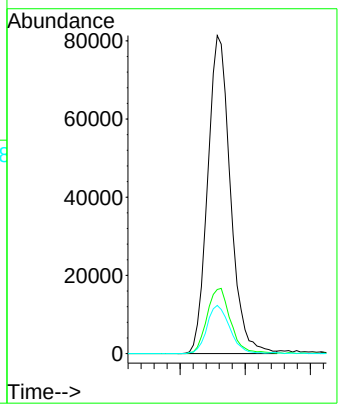


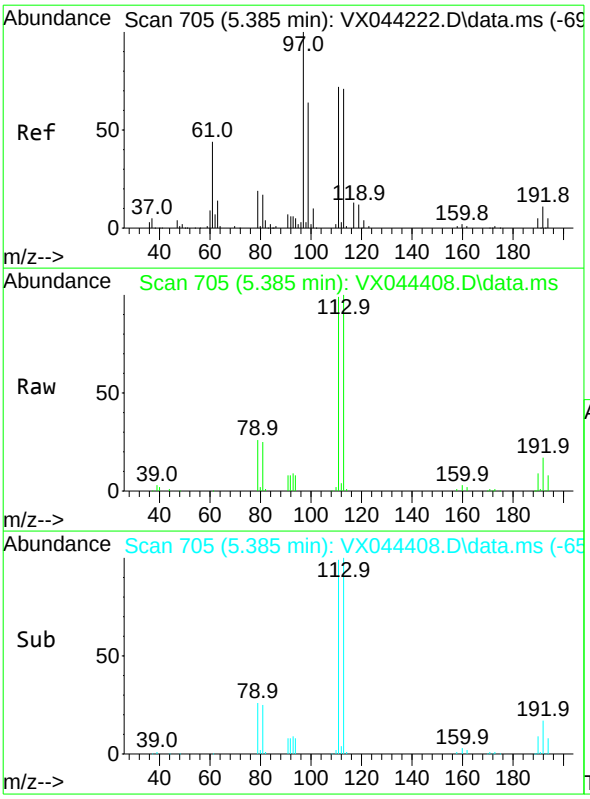


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044408.D
Acq: 19 Dec 2024 02:57

Tgt Ion:114 Resp: 197035

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.6
88	15.1	0.0	31.8



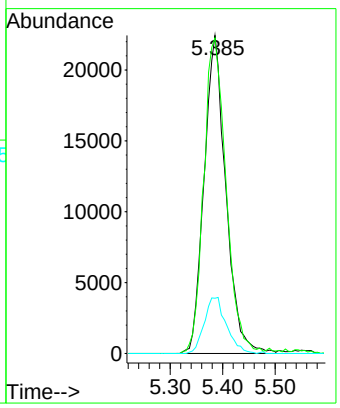


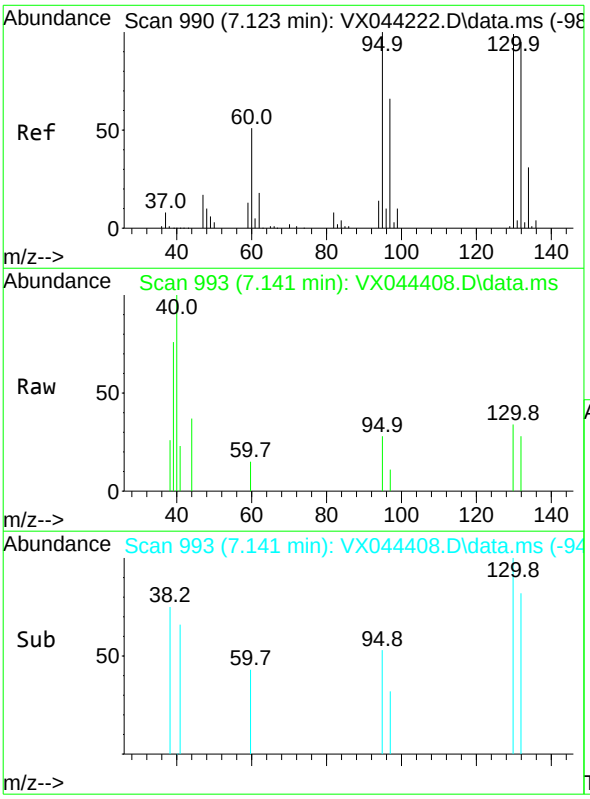
#35
Dibromofluoromethane
Concen: 47.283 ug/l
RT: 5.385 min Scan# 70
Delta R.T. 0.000 min
Lab File: VX044408.D
Acq: 19 Dec 2024 02:57

Instrument :
MSVOA_X
ClientSampleId :
TT158S1-20241217

Tgt Ion:113 Resp: 64525

Ion	Ratio	Lower	Upper
113	100		
111	102.3	80.4	120.6
192	18.0	13.3	19.9

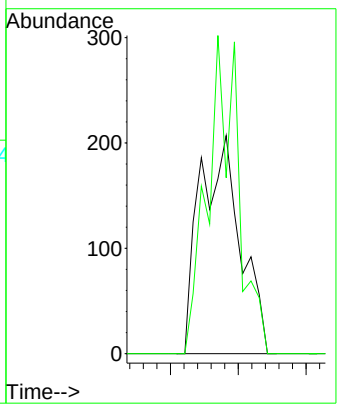


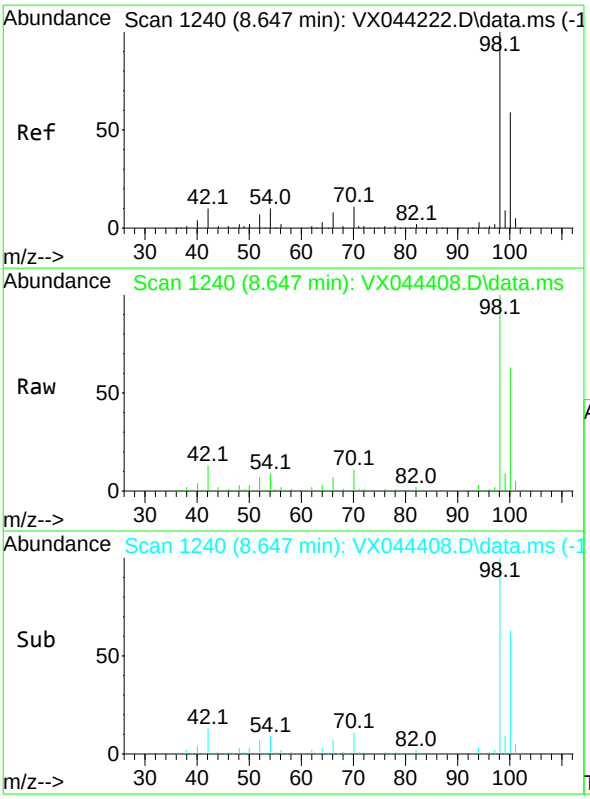


#44
Trichloroethene
Concen: 0.323 ug/l
RT: 7.141 min Scan# 993
Delta R.T. 0.018 min
Lab File: VX044408.D
Acq: 19 Dec 2024 02:57

Tgt Ion:130 Resp: 431

Ion	Ratio	Lower	Upper
130	100		
95	80.7	0.0	201.4



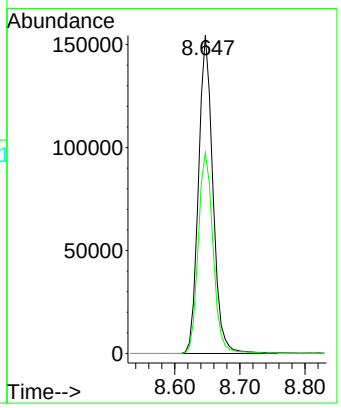


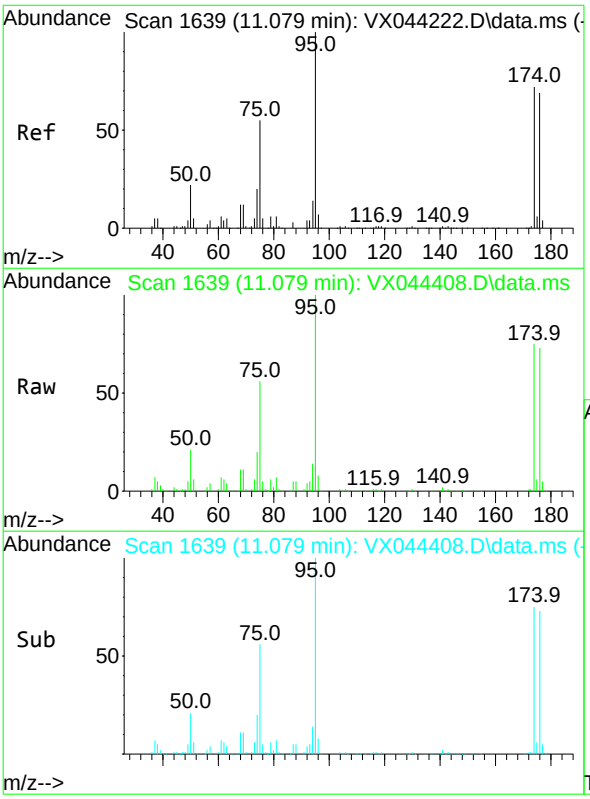
#50
Toluene-d8
Concen: 51.557 ug/l
RT: 8.647 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044408.D
Acq: 19 Dec 2024 02:57

Instrument :
MSVOA_X
ClientSampleId :
TT158S1-20241217

Tgt Ion: 98 Resp: 237364

Ion	Ratio	Lower	Upper
98	100		
100	64.9	51.5	77.3

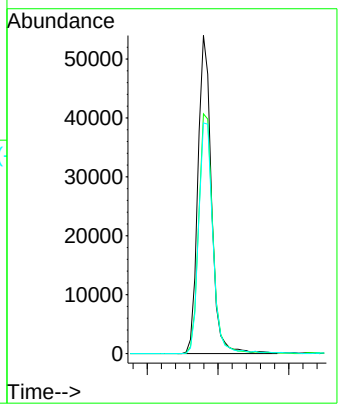


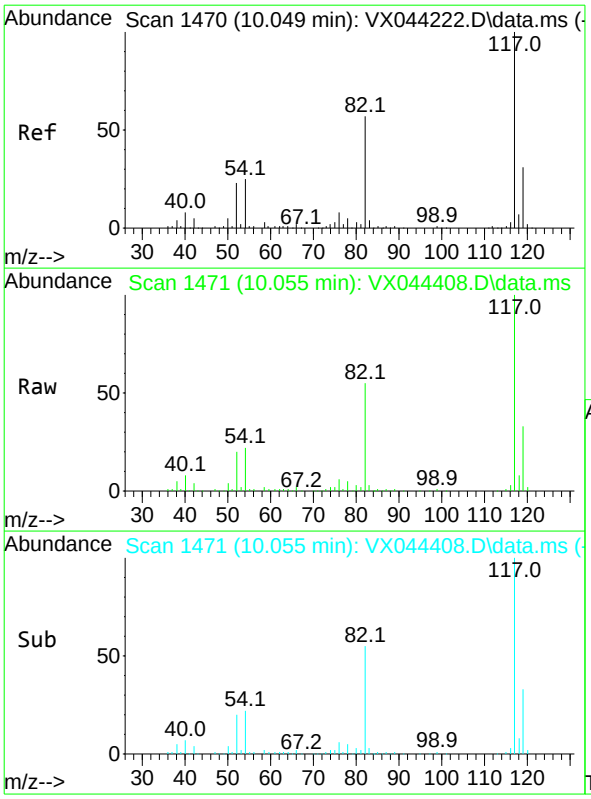


#62
4-Bromofluorobenzene
Concen: 44.593 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044408.D
Acq: 19 Dec 2024 02:57

Tgt Ion: 95 Resp: 71738

Ion	Ratio	Lower	Upper
95	100		
174	79.2	0.0	145.8
176	76.9	0.0	137.8



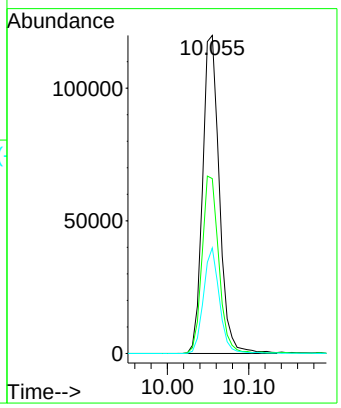


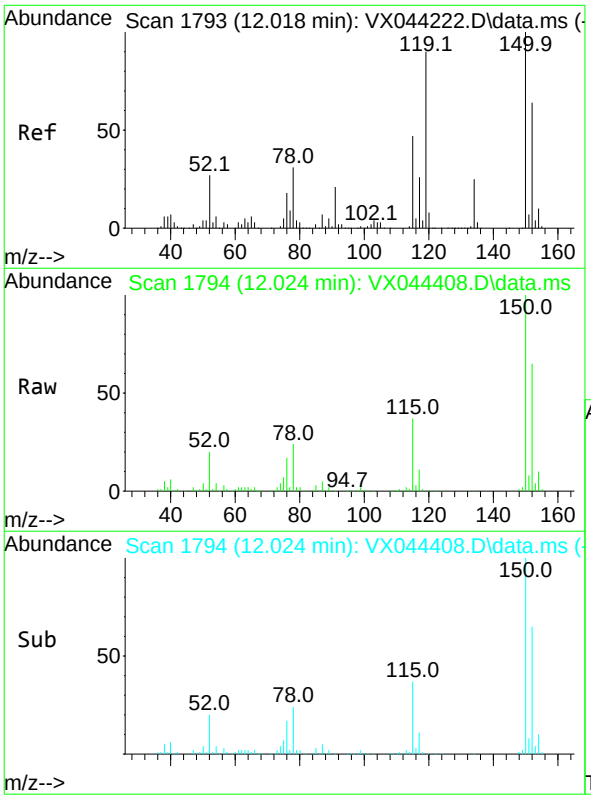
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044408.D
Acq: 19 Dec 2024 02:57

Instrument :
MSVOA_X
ClientSampleId :
TT158S1-20241217

Tgt Ion:117 Resp: 171282

Ion	Ratio	Lower	Upper
117	100		
82	55.0	45.8	68.8
119	33.2	25.0	37.4

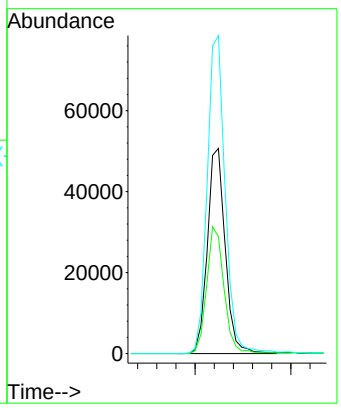




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044408.D
Acq: 19 Dec 2024 02:57

Tgt Ion:152 Resp: 65660

Ion	Ratio	Lower	Upper
152	100		
115	60.3	44.5	133.3
150	156.9	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT158I1-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044409.D	1		12/19/24 03:21	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.24	J	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.34	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	6.30		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Raw Data: **VX044409.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT158I1-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044409.D	1		12/19/24 03:21	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	1.40		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.2		81 - 118		88%	SPK: 50
1868-53-7	Dibromofluoromethane	47.7		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	51.1		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		85 - 114		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	108000	5.544				
540-36-3	1,4-Difluorobenzene	193000	6.757				
3114-55-4	Chlorobenzene-d5	169000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	64100	12.024				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT158I1-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044409.D	1		12/19/24 03:21	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044409.D
Acq On : 19 Dec 2024 03:21
Operator : JC/MD
Sample : P5317-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT158I1-20241217

Quant Time: Dec 19 05:09:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

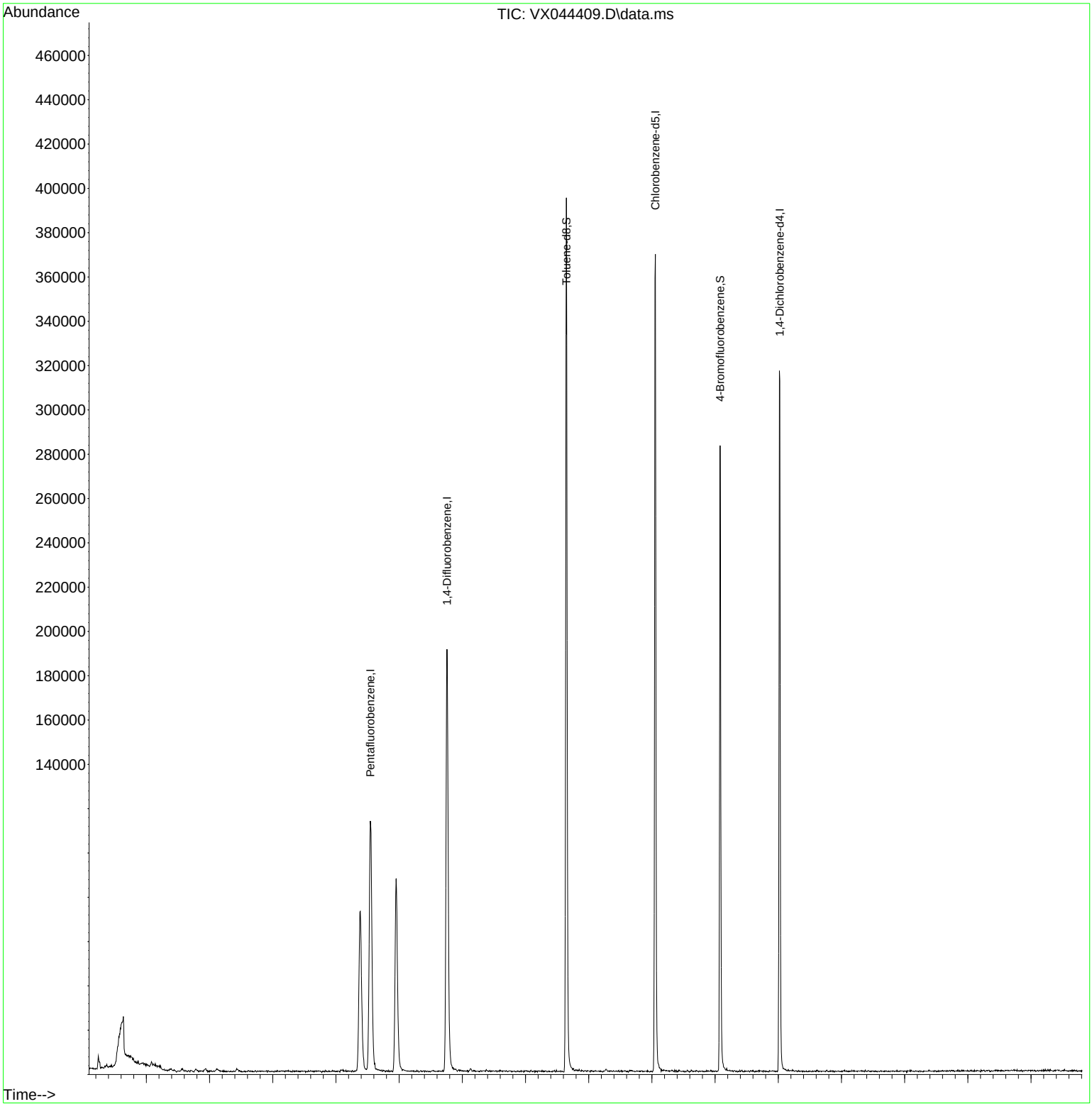
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	108444	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	193059	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	169424	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	64056	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	83972	44.164	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 88.320%			
35) Dibromofluoromethane	5.385	113	63844	47.748	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.500%			
50) Toluene-d8	8.647	98	230393	51.073	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.140%			
62) 4-Bromofluorobenzene	11.079	95	71908	45.619	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.240%			
Target Compounds						Qvalue
16) Acetone	2.392	43	925	1.193	ug/l	96
20) Methylene Chloride	2.776	84	499	0.343	ug/l #	82
44) Trichloroethene	7.141	130	354	0.271	ug/l	89

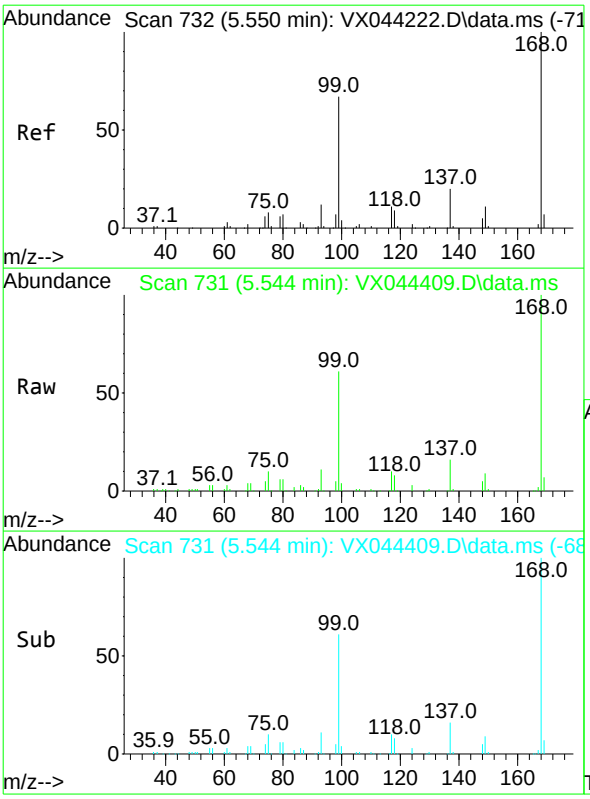
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044409.D
Acq On : 19 Dec 2024 03:21
Operator : JC/MD
Sample : P5317-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT158I1-20241217

Quant Time: Dec 19 05:09:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



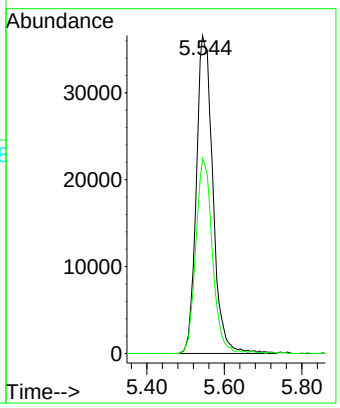


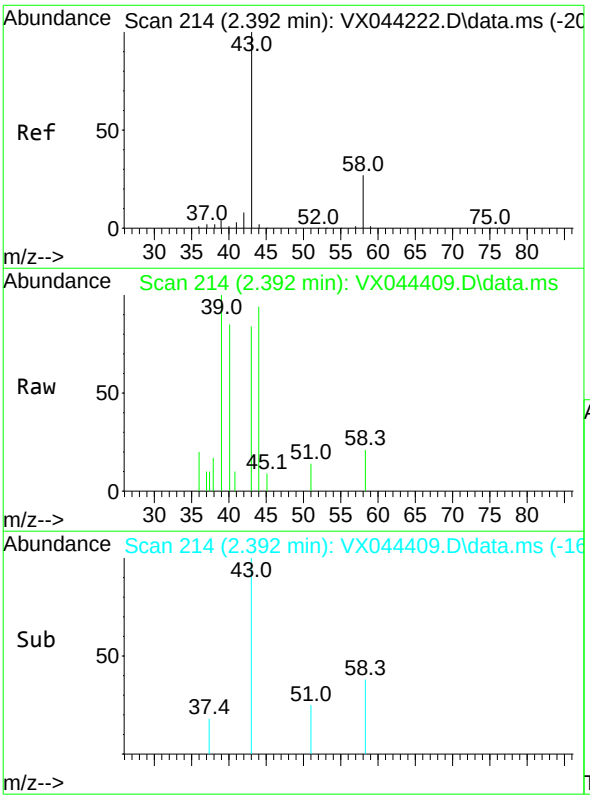
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044409.D
Acq: 19 Dec 2024 03:21

Instrument :
MSVOA_X
ClientSampleId :
TT158l1-20241217

Tgt Ion:168 Resp: 108444

Ion	Ratio	Lower	Upper
168	100		
99	61.2	53.4	80.0

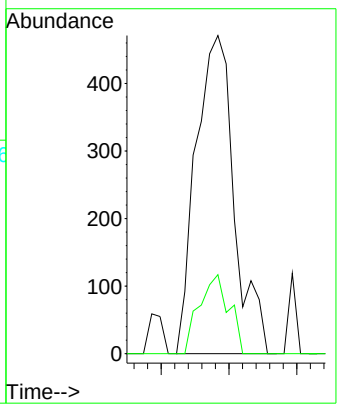


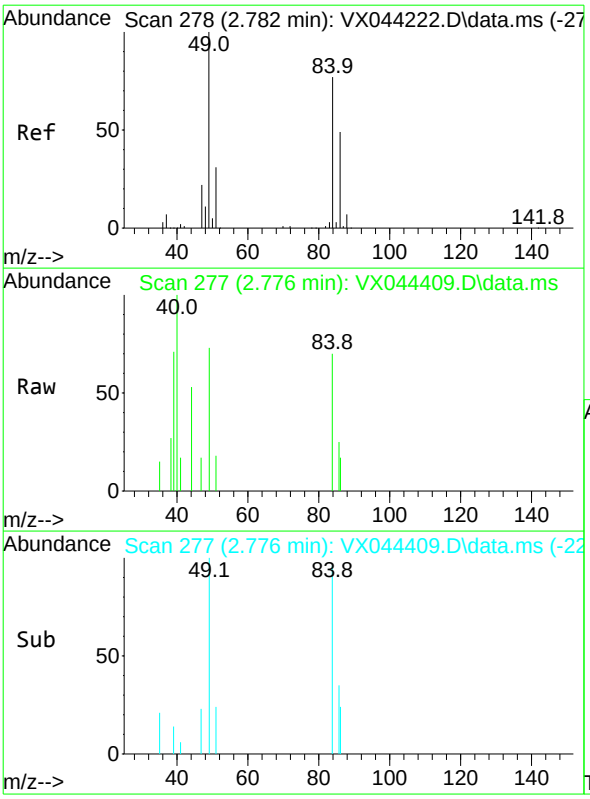


#16
Acetone
Concen: 1.193 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044409.D
Acq: 19 Dec 2024 03:21

Tgt Ion: 43 Resp: 925

Ion	Ratio	Lower	Upper
43	100		
58	24.8	21.6	32.4



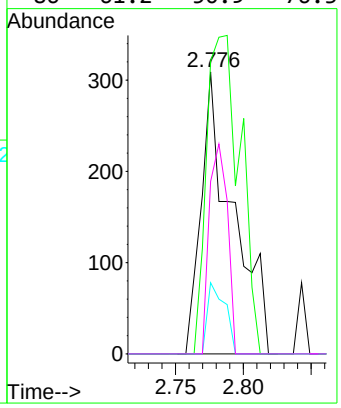


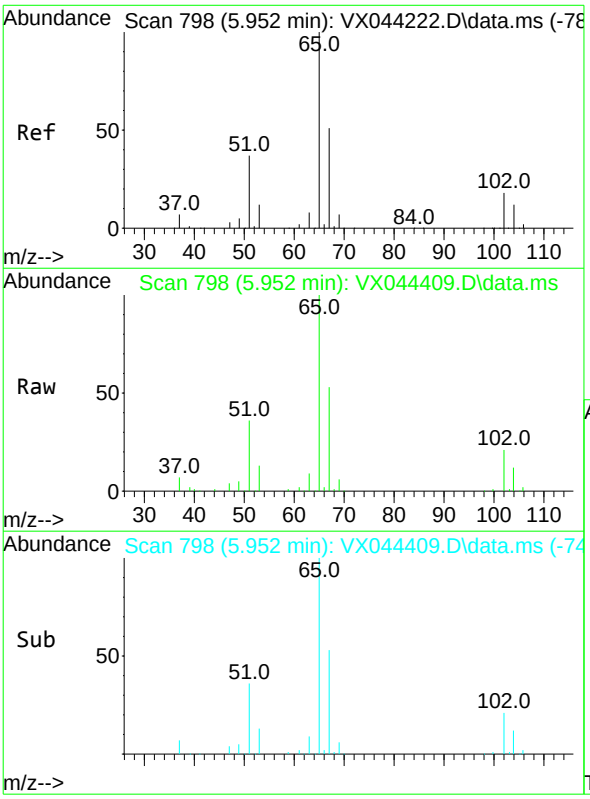
#20
Methylene Chloride
Concen: 0.343 ug/l
RT: 2.776 min Scan# 27
Delta R.T. -0.006 min
Lab File: VX044409.D
Acq: 19 Dec 2024 03:21

Instrument :
MSVOA_X
ClientSampleId :
TT158l1-20241217

Tgt Ion: 84 Resp: 499

Ion	Ratio	Lower	Upper
84	100		
49	103.9	104.2	156.4#
51	25.2	32.2	48.4#
86	61.2	50.9	76.3

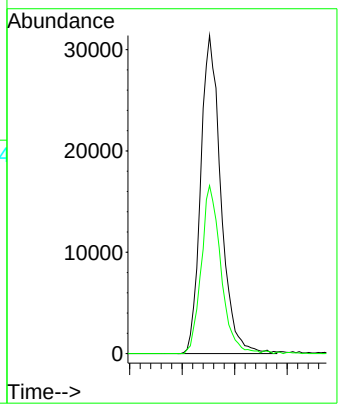


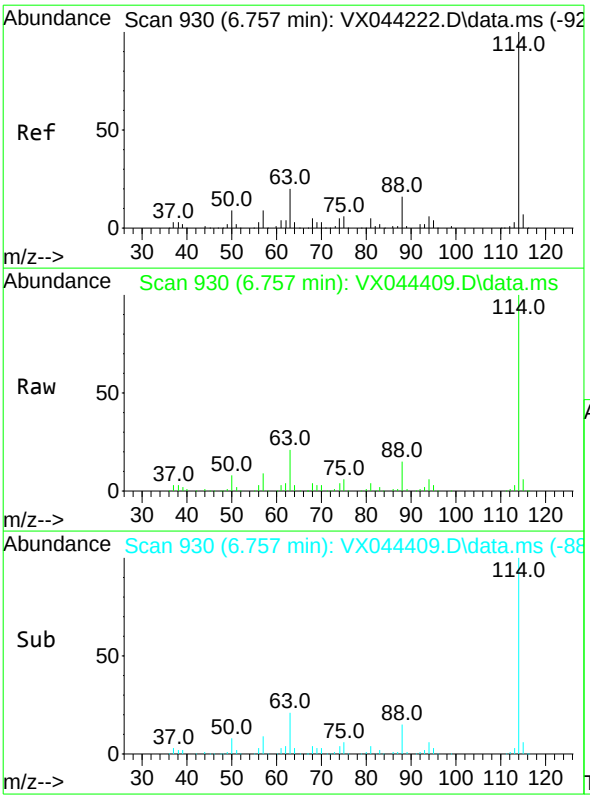


#33
1,2-Dichloroethane-d4
Concen: 44.164 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044409.D
Acq: 19 Dec 2024 03:21

Tgt Ion: 65 Resp: 83972

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	101.6



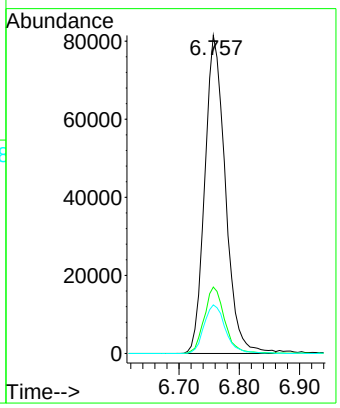


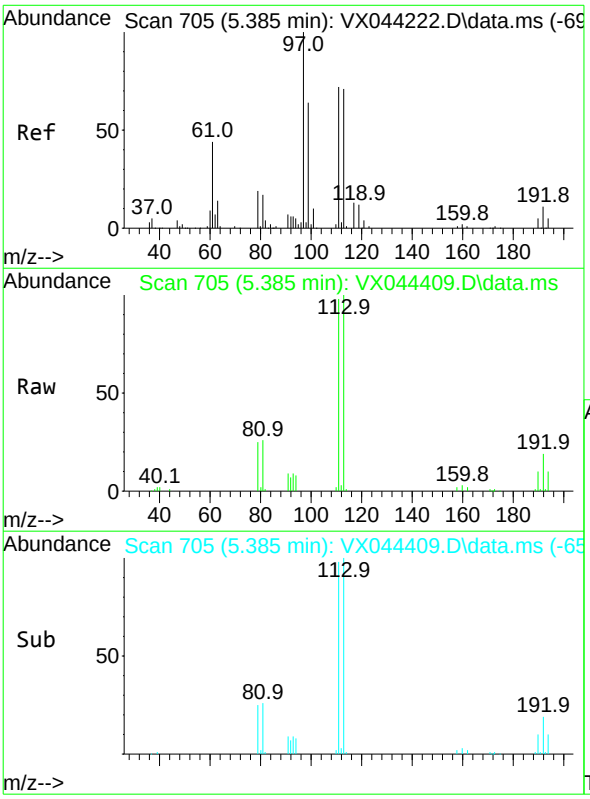
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044409.D
Acq: 19 Dec 2024 03:21

Instrument :
MSVOA_X
ClientSampleId :
TT158l1-20241217

Tgt Ion:114 Resp: 193059

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	40.6
88	15.3	0.0	31.8

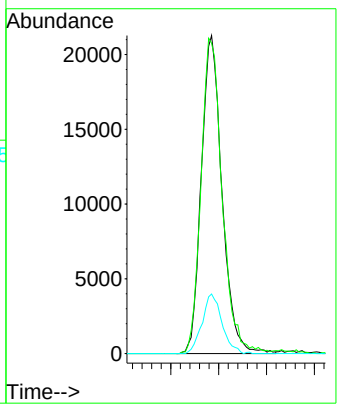


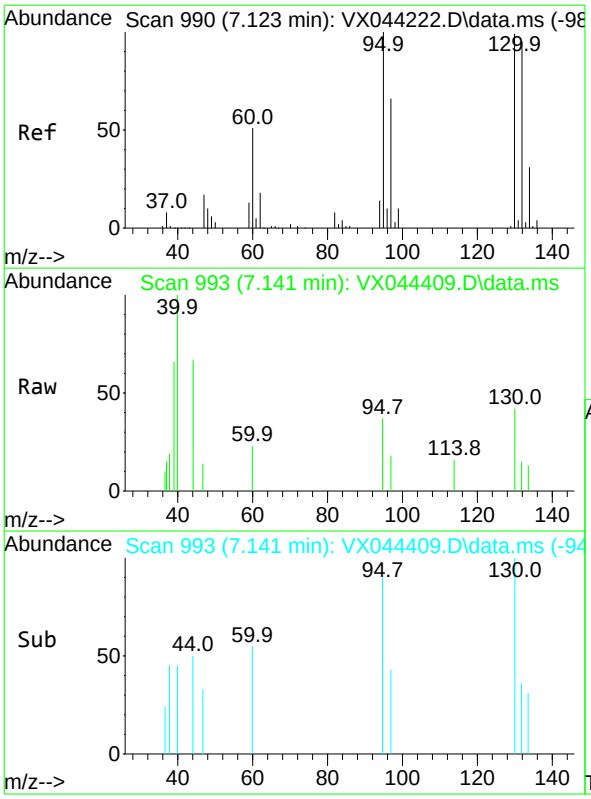


#35
Dibromofluoromethane
Concen: 47.748 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX044409.D
Acq: 19 Dec 2024 03:21

Tgt Ion:113 Resp: 63844

Ion	Ratio	Lower	Upper
113	100		
111	101.3	80.4	120.6
192	17.9	13.3	19.9



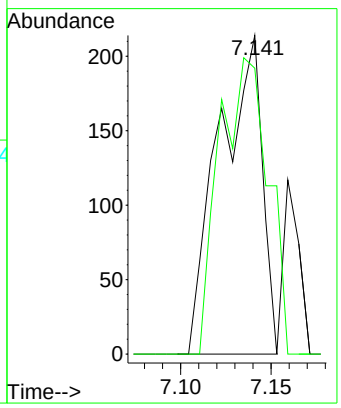


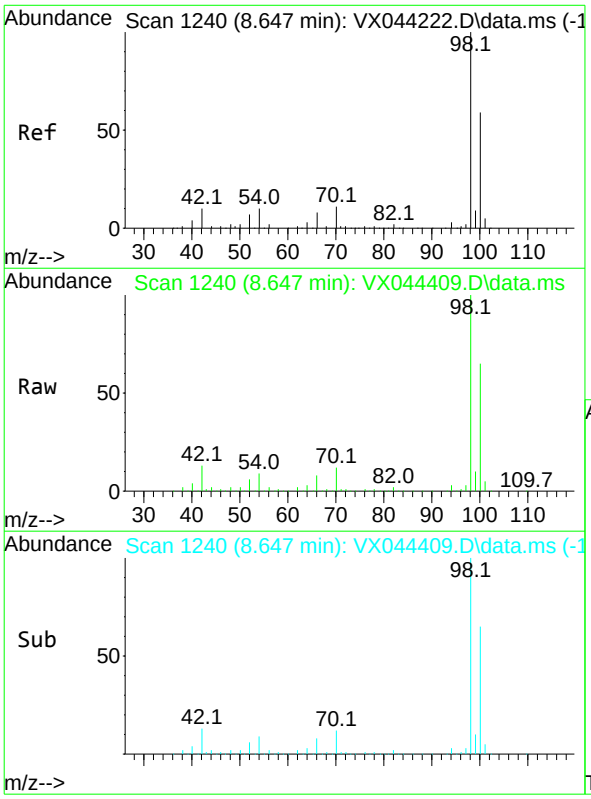
#44
Trichloroethene
Concen: 0.271 ug/l
RT: 7.141 min Scan# 99
Delta R.T. 0.018 min
Lab File: VX044409.D
Acq: 19 Dec 2024 03:21

Instrument :
MSVOA_X
ClientSampleId :
TT158l1-20241217

Tgt Ion:130 Resp: 354

Ion	Ratio	Lower	Upper
130	100		
95	89.7	0.0	201.4

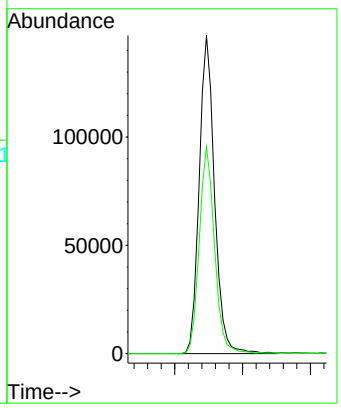


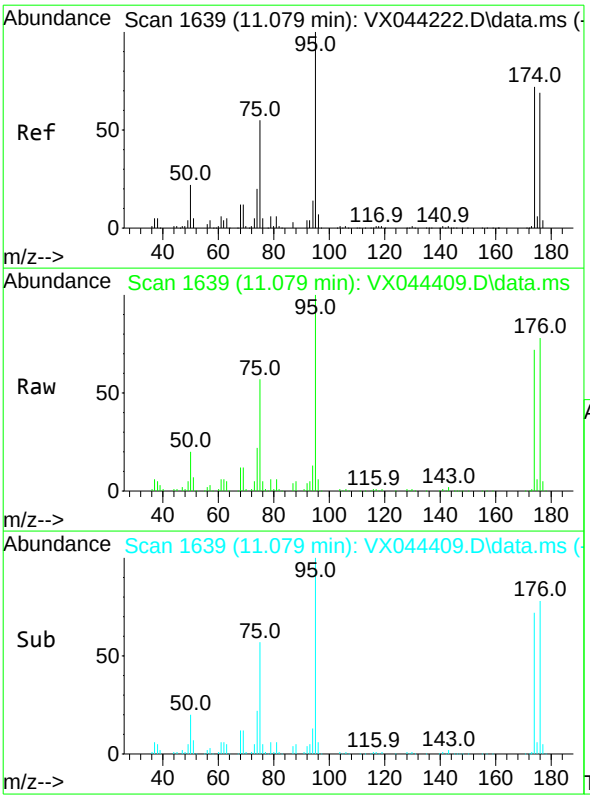


#50
Toluene-d8
Concen: 51.073 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044409.D
Acq: 19 Dec 2024 03:21

Tgt Ion: 98 Resp: 230393

Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.5	77.3



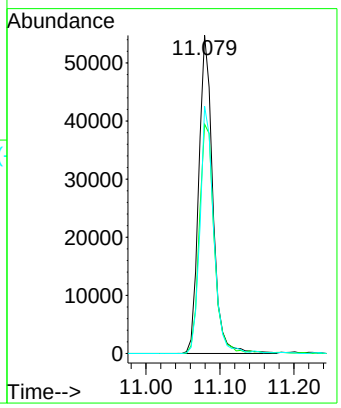


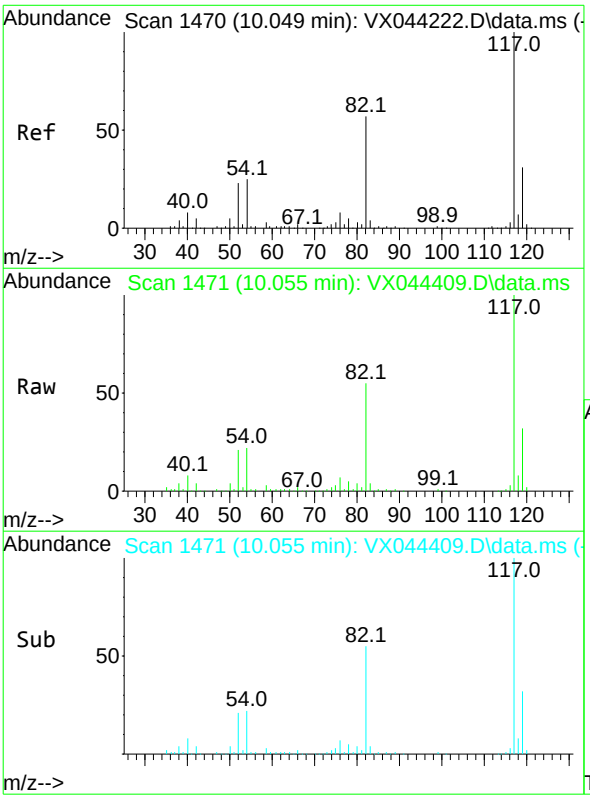
#62
4-Bromofluorobenzene
Concen: 45.619 ug/l
RT: 11.079 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044409.D
Acq: 19 Dec 2024 03:21

Instrument :
MSVOA_X
ClientSampleId :
TT158l1-20241217

Tgt Ion: 95 Resp: 71908

Ion	Ratio	Lower	Upper
95	100		
174	76.1	0.0	145.8
176	75.3	0.0	137.8

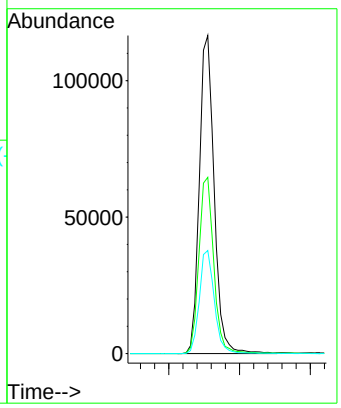


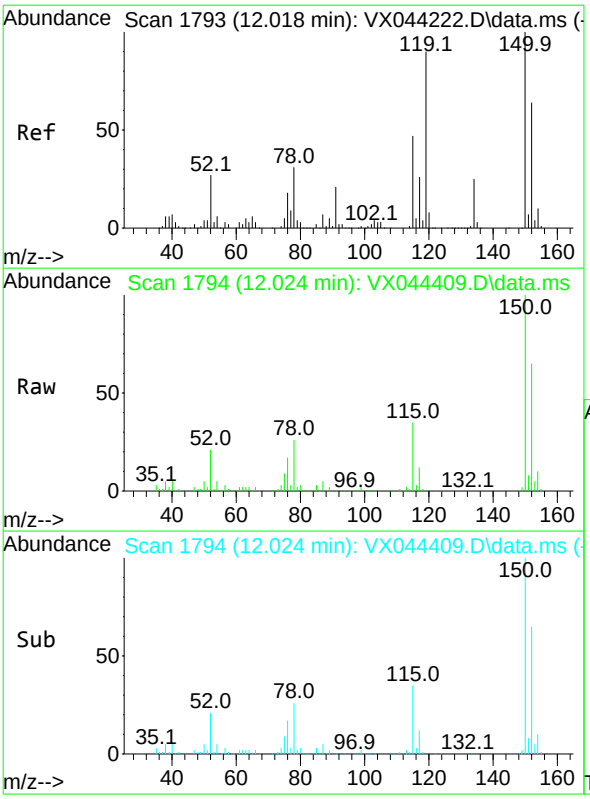


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044409.D
Acq: 19 Dec 2024 03:21

Tgt Ion:117 Resp: 169424

Ion	Ratio	Lower	Upper
117	100		
82	55.4	45.8	68.8
119	32.4	25.0	37.4



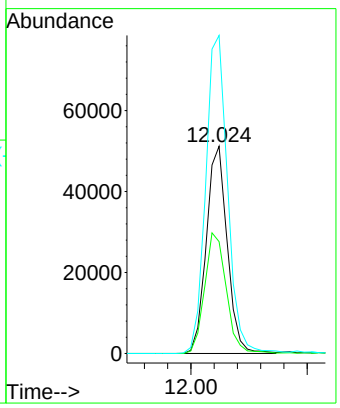


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX044409.D
Acq: 19 Dec 2024 03:21

Instrument :
MSVOA_X
ClientSampleId :
TT158l1-20241217

Tgt Ion:152 Resp: 64056

Ion	Ratio	Lower	Upper
152	100		
115	60.3	44.5	133.3
150	160.6	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	DUP-05-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-11	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044488.D	1		12/23/24 18:17	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.20		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	UQ	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.32	J	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	DUP-05-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-11	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044488.D	1		12/23/24 18:17	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	UQ	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.9		81 - 118		90%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	55.6		89 - 112		111%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		85 - 114		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	132000	5.544				
540-36-3	1,4-Difluorobenzene	233000	6.757				
3114-55-4	Chlorobenzene-d5	212000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	95900	12.018				

Raw Data: **VX044488.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	DUP-05-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-11	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044488.D	1		12/23/24 18:17	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044488.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044488.D
Acq On : 23 Dec 2024 18:17
Operator : JC/MD
Sample : P5317-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP-05-20241217

Quant Time: Dec 23 22:14:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	132450	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	232737	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	211937	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95898	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	104226	44.881	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 89.760%			
35) Dibromofluoromethane	5.379	113	79952	49.601	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.200%			
50) Toluene-d8	8.647	98	302195	55.570	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 111.140%			
62) 4-Bromofluorobenzene	11.079	95	100909	53.104	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.200%			
Target Compounds						Qvalue
24) 1,1-Dichloroethane	3.593	63	3842	1.238	ug/l	94
44) Trichloroethene	7.129	130	510	0.323	ug/l	97

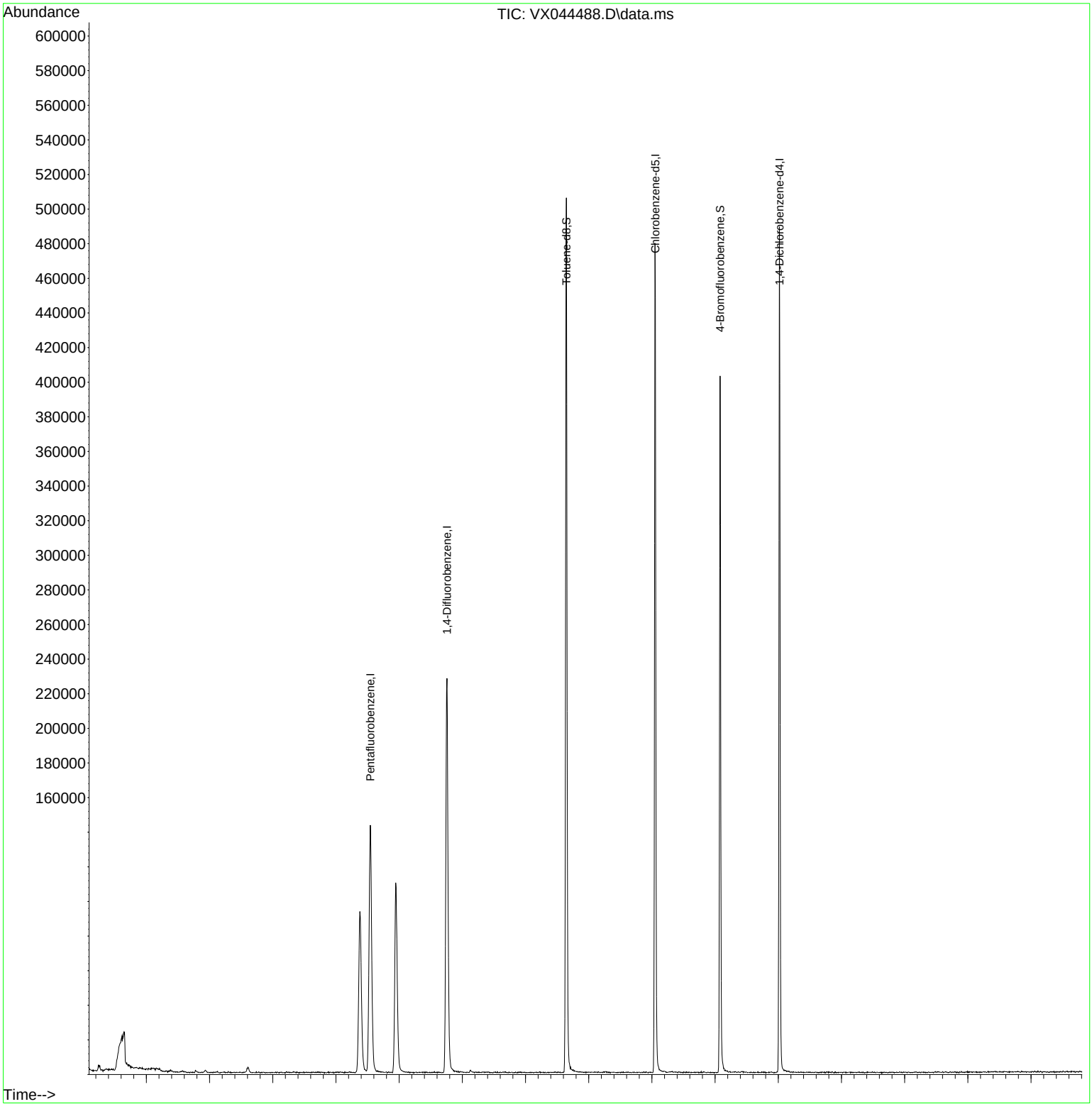
(#) = qualifier out of range (m) = manual integration (+) = signals summed

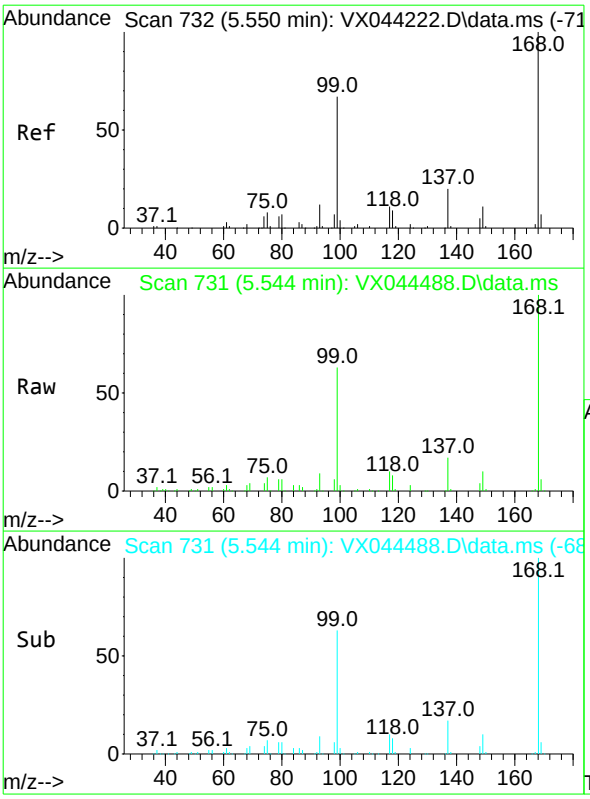
Sample Results: **VX044488.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044488.D
Acq On : 23 Dec 2024 18:17
Operator : JC/MD
Sample : P5317-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP-05-20241217

Quant Time: Dec 23 22:14:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



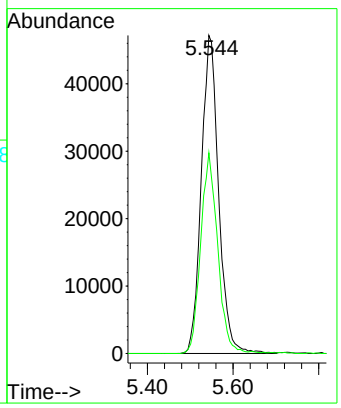


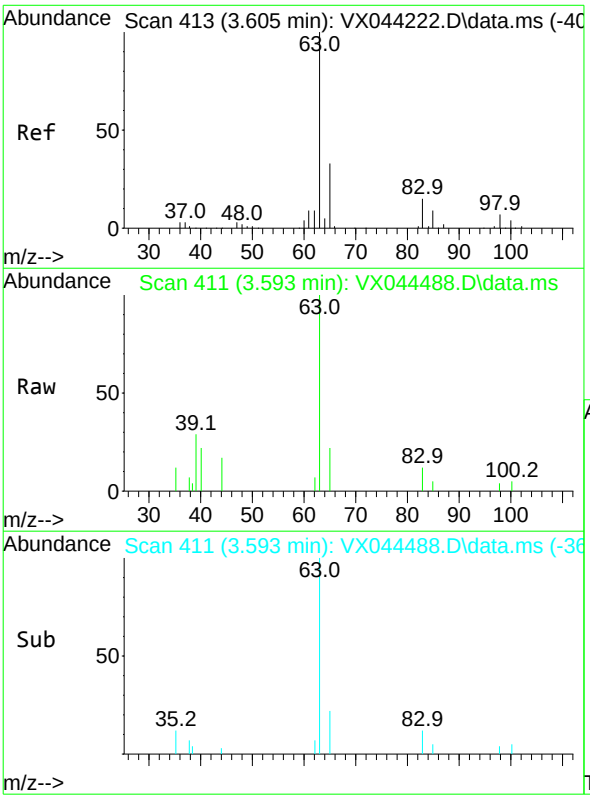
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044488.D
Acq: 23 Dec 2024 18:17

Instrument :
MSVOA_X
ClientSampleId :
DUP-05-20241217

Tgt Ion:168 Resp: 132450

Ion	Ratio	Lower	Upper
168	100		
99	63.1	53.4	80.0

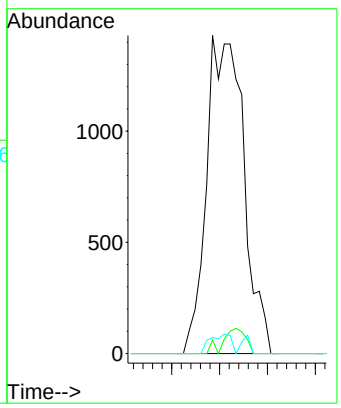


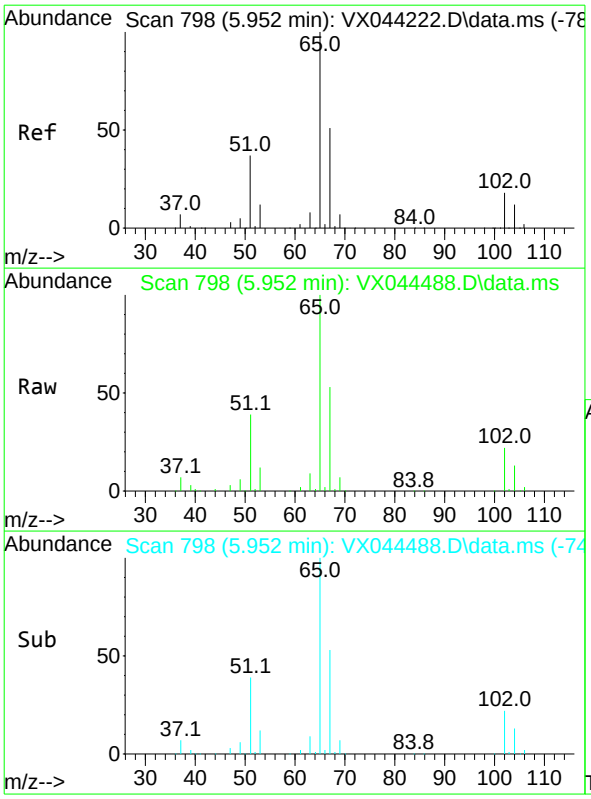


#24
1,1-Dichloroethane
Concen: 1.238 ug/l
RT: 3.593 min Scan# 411
Delta R.T. -0.012 min
Lab File: VX044488.D
Acq: 23 Dec 2024 18:17

Tgt Ion: 63 Resp: 3842

Ion	Ratio	Lower	Upper
63	100		
98	4.2	3.6	10.8
100	5.0	2.1	6.3



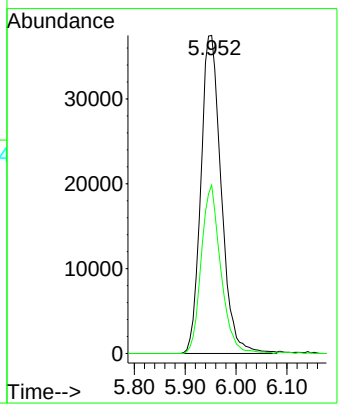


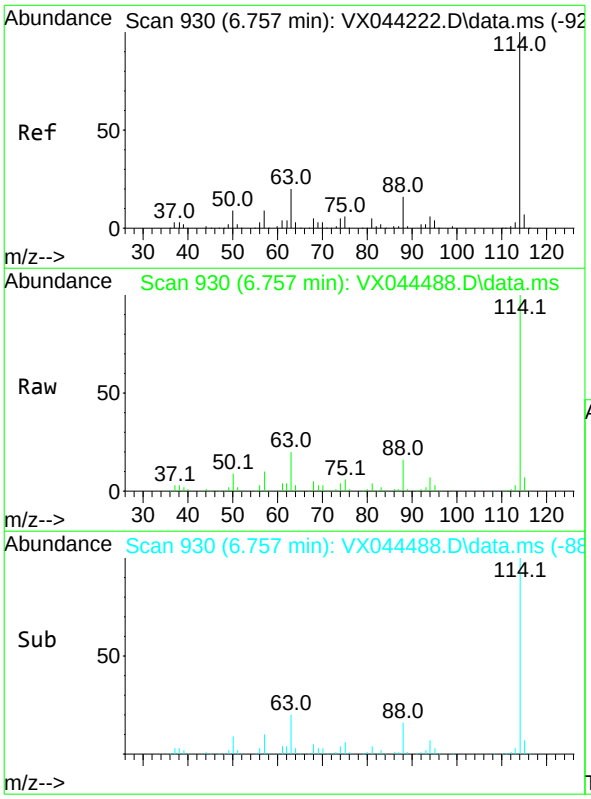
#33
1,2-Dichloroethane-d4
Concen: 44.881 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044488.D
Acq: 23 Dec 2024 18:17

Instrument :
MSVOA_X
ClientSampleId :
DUP-05-20241217

Tgt Ion: 65 Resp: 104226

Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	101.6

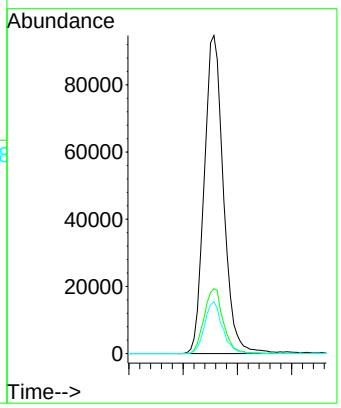


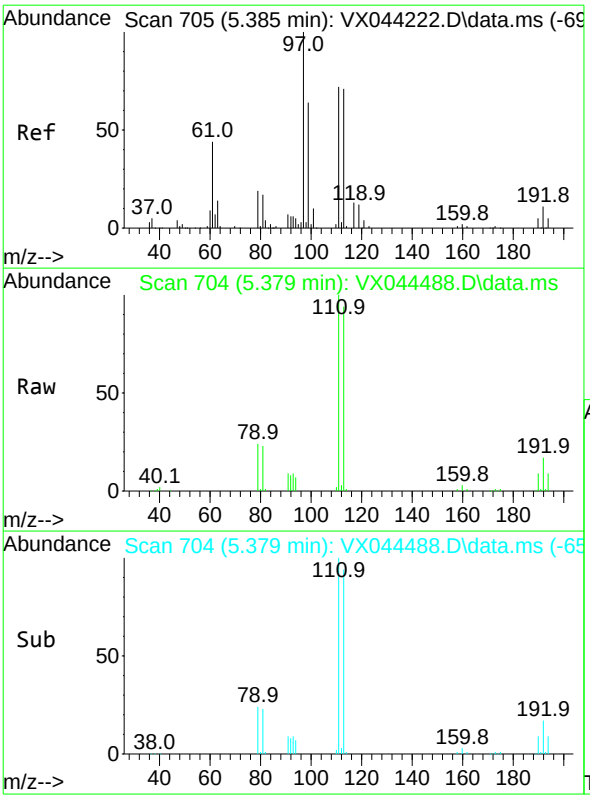


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044488.D
Acq: 23 Dec 2024 18:17

Tgt Ion:114 Resp: 232737

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.6
88	16.3	0.0	31.8



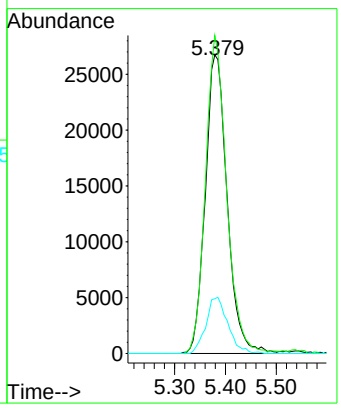


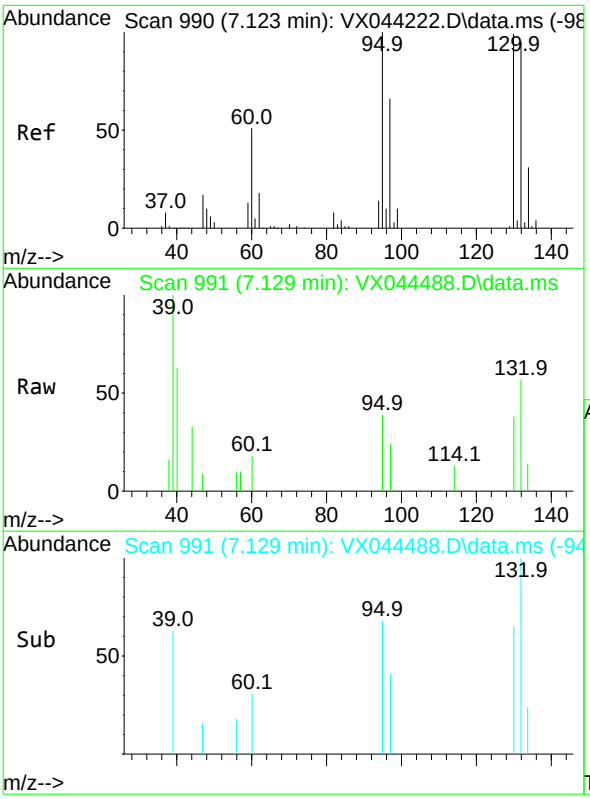
#35
Dibromofluoromethane
Concen: 49.601 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044488.D
Acq: 23 Dec 2024 18:17

Instrument :
MSVOA_X
ClientSampleId :
DUP-05-20241217

Tgt Ion:113 Resp: 79952

Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.4	120.6
192	18.9	13.3	19.9

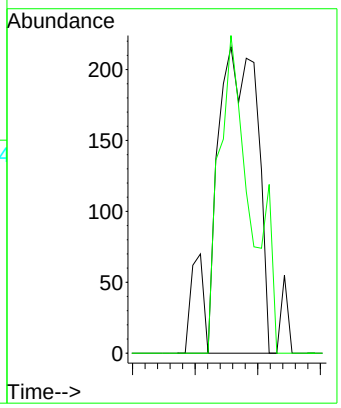


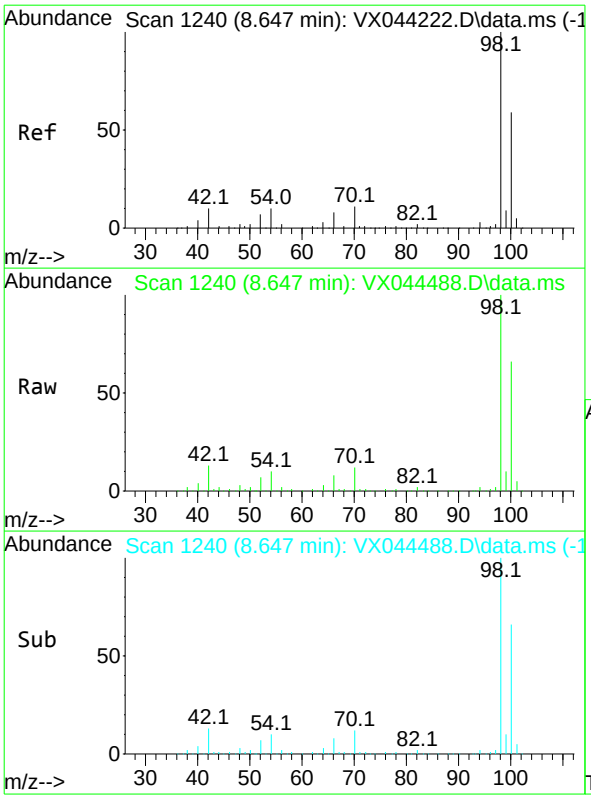


#44
Trichloroethene
Concen: 0.323 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX044488.D
Acq: 23 Dec 2024 18:17

Tgt Ion:130 Resp: 510

Ion	Ratio	Lower	Upper
130	100		
95	103.7	0.0	201.4



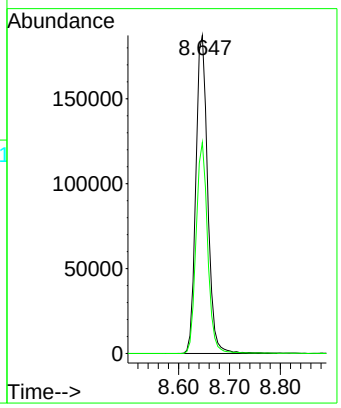


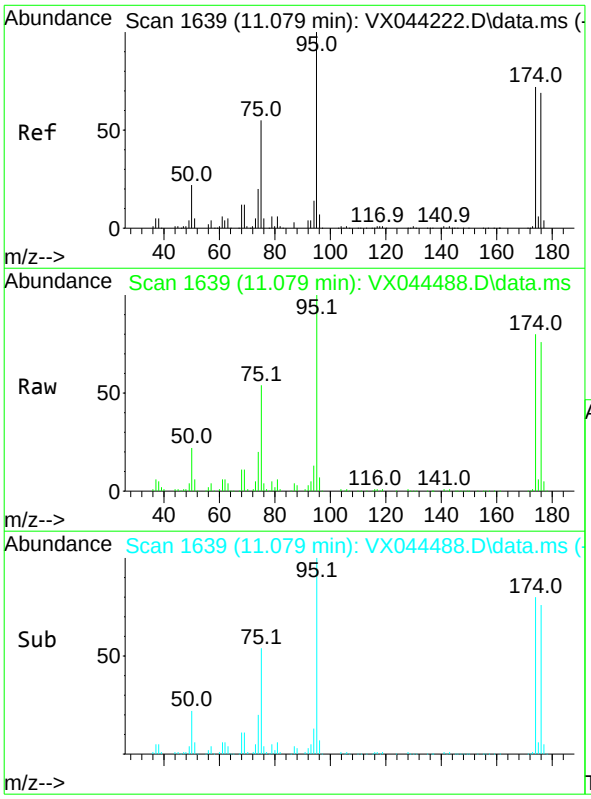
#50
Toluene-d8
Concen: 55.570 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044488.D
Acq: 23 Dec 2024 18:17

Instrument :
MSVOA_X
ClientSampleId :
DUP-05-20241217

Tgt Ion: 98 Resp: 302195

Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.5	77.3

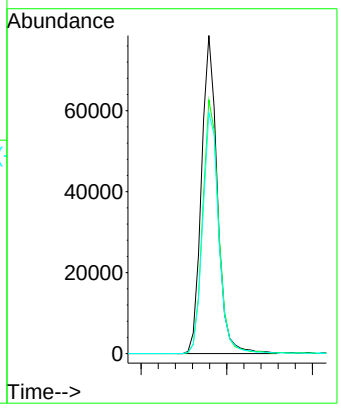


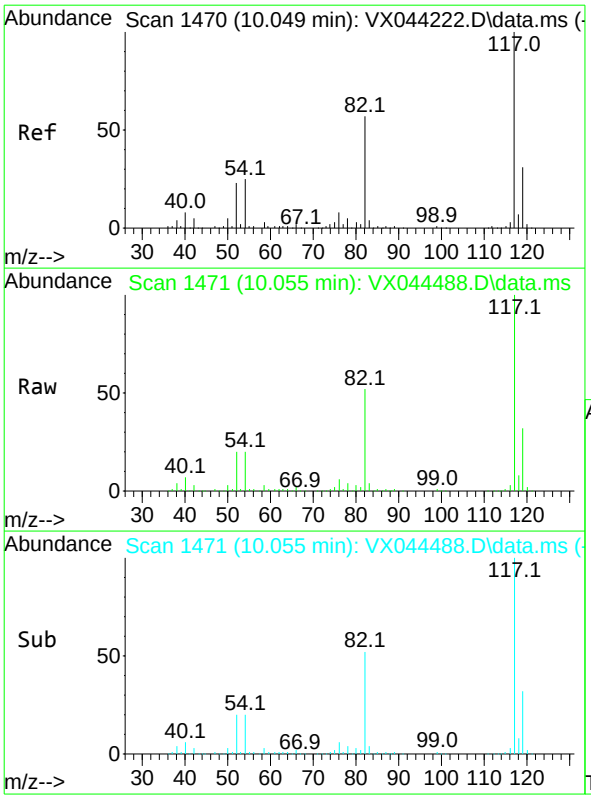


#62
4-Bromofluorobenzene
Concen: 53.104 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044488.D
Acq: 23 Dec 2024 18:17

Tgt Ion: 95 Resp: 100909

Ion	Ratio	Lower	Upper
95	100		
174	80.7	0.0	145.8
176	77.5	0.0	137.8



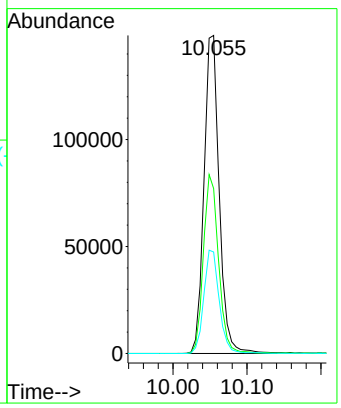


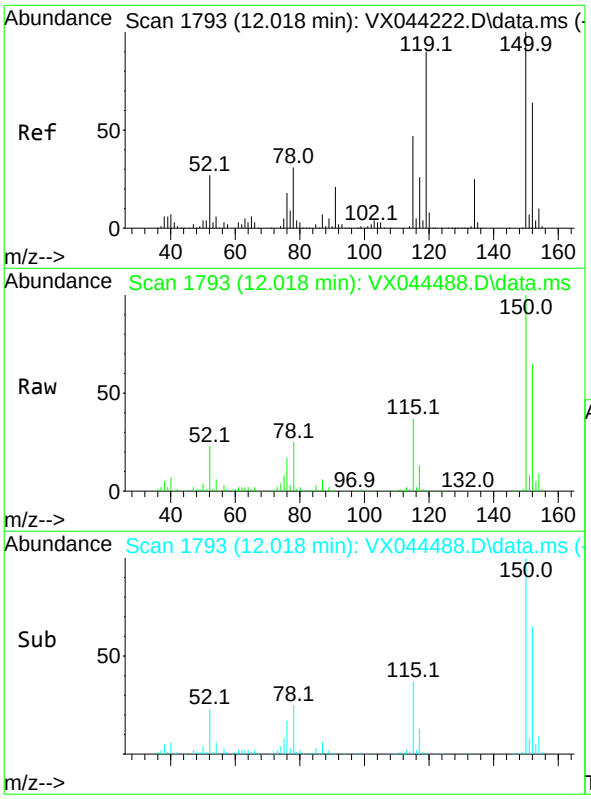
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044488.D
Acq: 23 Dec 2024 18:17

Instrument :
MSVOA_X
ClientSampleId :
DUP-05-20241217

Tgt Ion:117 Resp: 211937

Ion	Ratio	Lower	Upper
117	100		
82	51.9	45.8	68.8
119	31.9	25.0	37.4

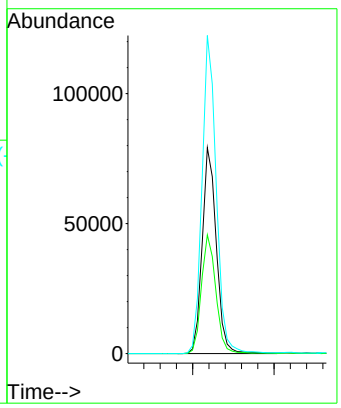




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044488.D
Acq: 23 Dec 2024 18:17

Tgt Ion:152 Resp: 95898

Ion	Ratio	Lower	Upper
152	100		
115	58.7	44.5	133.3
150	155.3	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT172S1-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-12	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044410.D	1		12/19/24 03:44	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.50	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.25	J	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.40	J	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	1.60	J	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	6.40		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.51	J	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.33	J	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	39.5		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Raw Data: **VX044410.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT172S1-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-12	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044410.D	1		12/19/24 03:44	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	2.70		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	1.90		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.5		81 - 118		91%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	52.6		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	107000	5.544				
540-36-3	1,4-Difluorobenzene	190000	6.757				
3114-55-4	Chlorobenzene-d5	168000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	68300	12.024				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TT172S1-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-12	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044410.D	1		12/19/24 03:44	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044410.D
Acq On : 19 Dec 2024 03:44
Operator : JC/MD
Sample : P5317-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 42 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT172S1-20241217

Quant Time: Dec 19 05:10:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

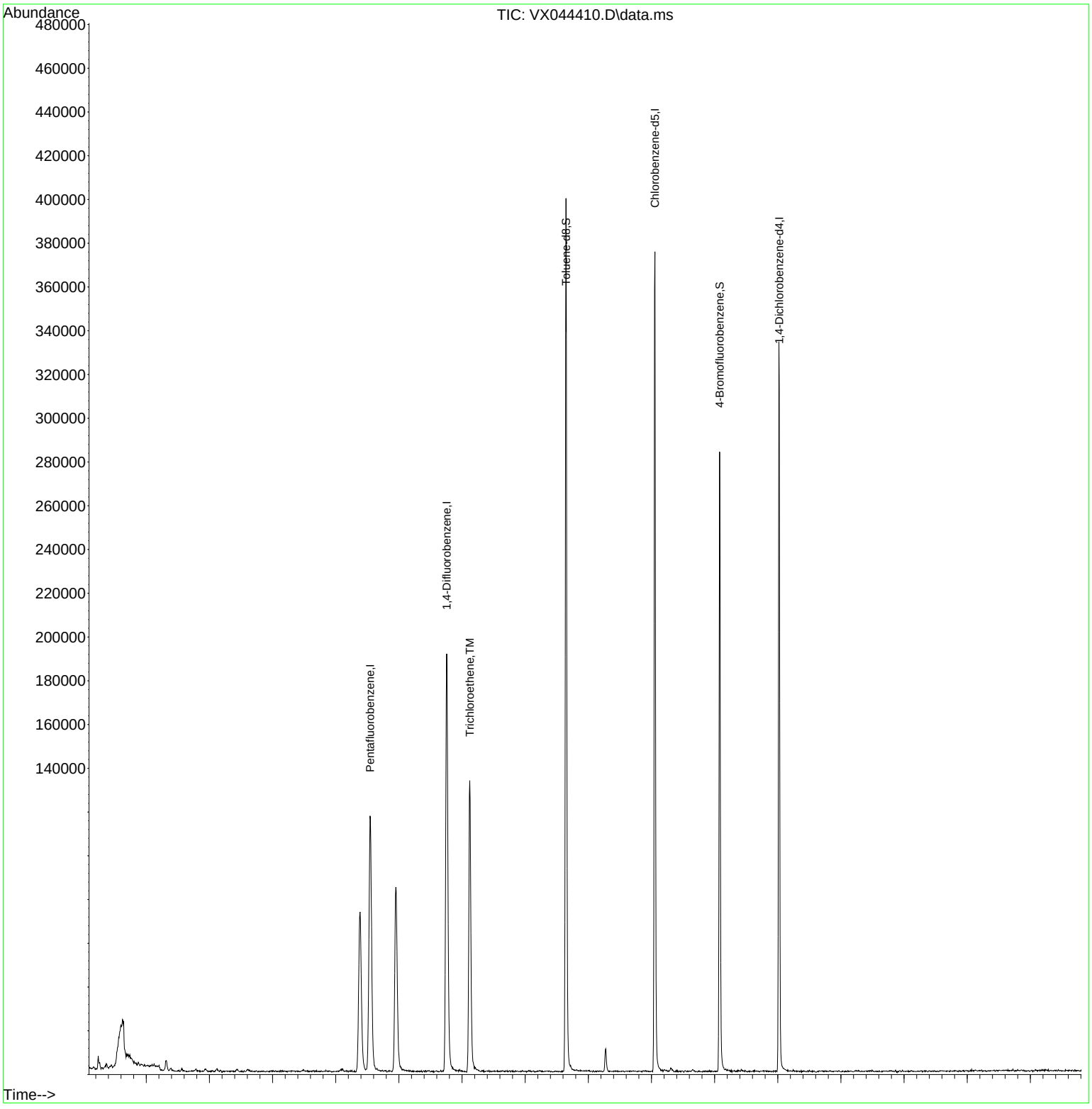
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	106531	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	190393	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	168278	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	68296	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	85005	45.510	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 91.020%			
35) Dibromofluoromethane	5.385	113	63211	47.936	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.880%			
50) Toluene-d8	8.647	98	234127	52.628	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.260%			
62) 4-Bromofluorobenzene	11.079	95	74312	47.805	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.600%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.306	101	1648	1.268	ug/l	94
16) Acetone	2.392	43	1149	1.509	ug/l #	69
20) Methylene Chloride	2.788	84	353	0.247	ug/l #	74
44) Trichloroethene	7.123	130	50938	39.470	ug/l	99
64) Tetrachloroethene	9.281	164	2089	1.870	ug/l #	82

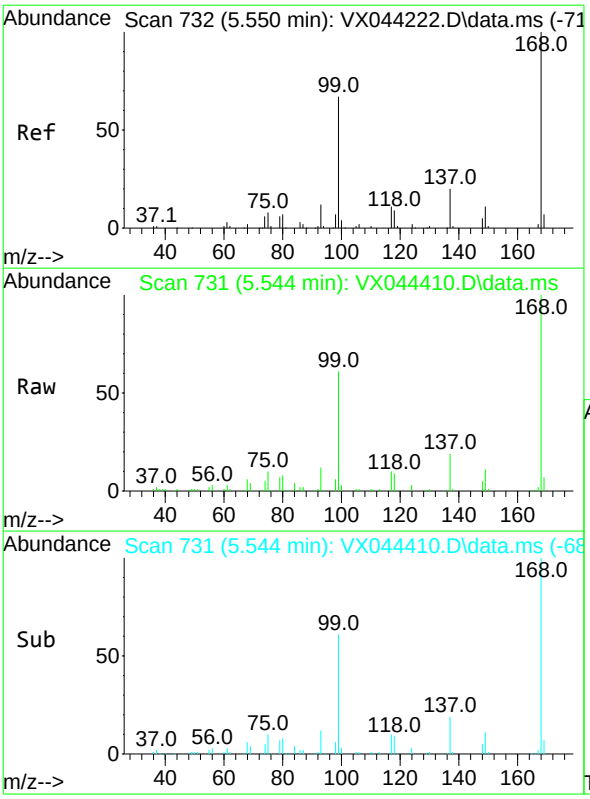
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044410.D
Acq On : 19 Dec 2024 03:44
Operator : JC/MD
Sample : P5317-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 42 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT172S1-20241217

Quant Time: Dec 19 05:10:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



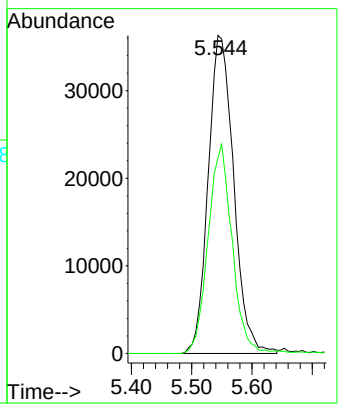


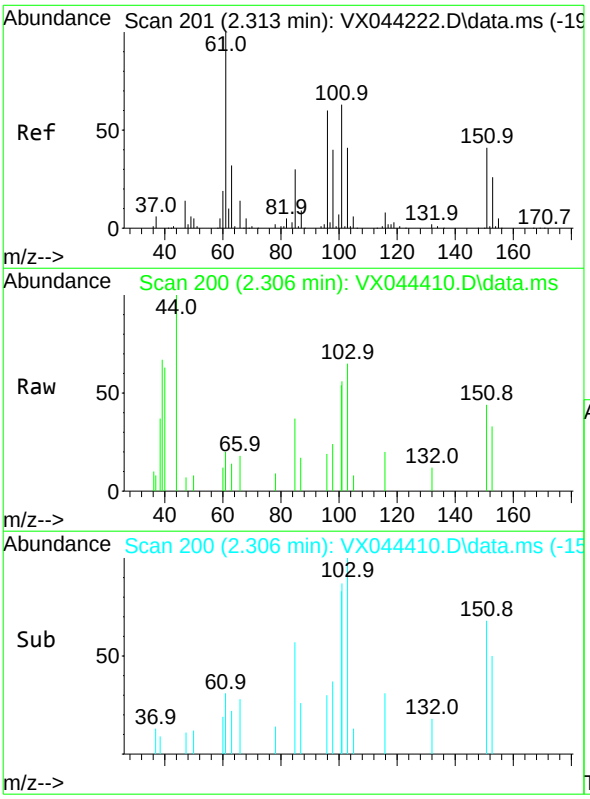
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044410.D
Acq: 19 Dec 2024 03:44

Instrument :
MSVOA_X
ClientSampleId :
TT172S1-20241217

Tgt Ion:168 Resp: 106531

Ion	Ratio	Lower	Upper
168	100		
99	61.4	53.4	80.0

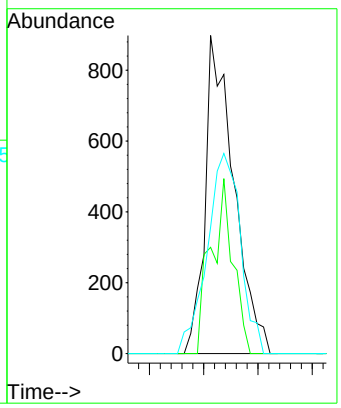


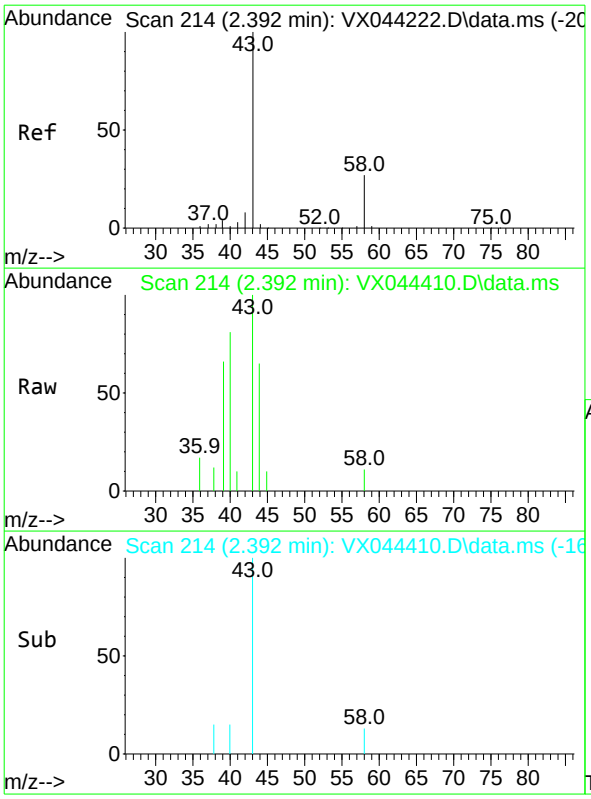


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.268 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044410.D
Acq: 19 Dec 2024 03:44

Tgt Ion:101 Resp: 1648

Ion	Ratio	Lower	Upper
101	100		
85	42.2	38.5	57.7
151	73.4	55.8	83.6



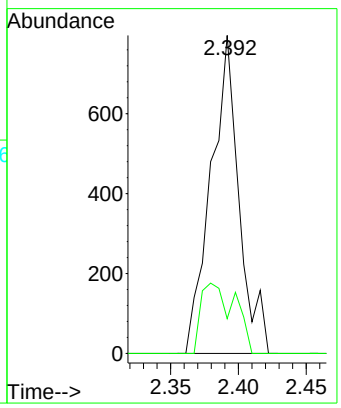


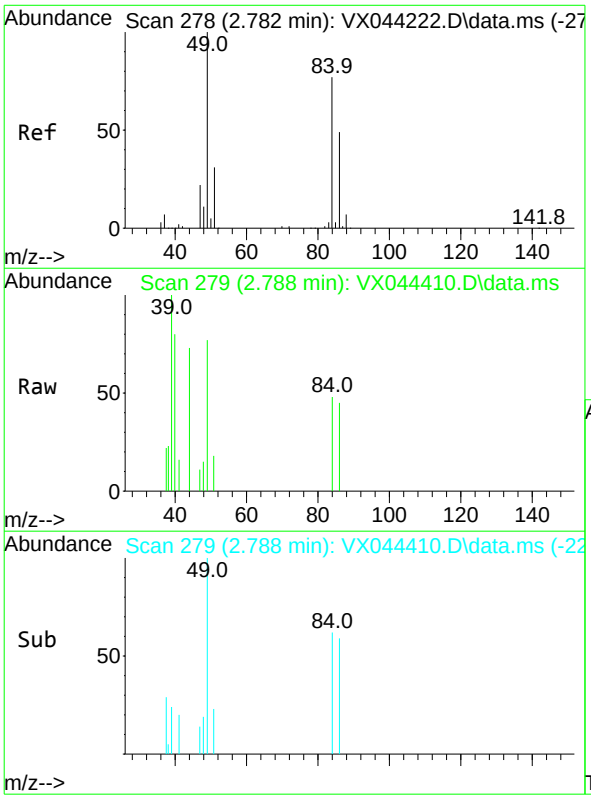
#16
Acetone
Concen: 1.509 ug/l
RT: 2.392 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX044410.D
Acq: 19 Dec 2024 03:44

Instrument :
MSVOA_X
ClientSampleId :
TT172S1-20241217

Tgt Ion: 43 Resp: 1149

Ion	Ratio	Lower	Upper
43	100		
58	10.9	21.6	32.4#

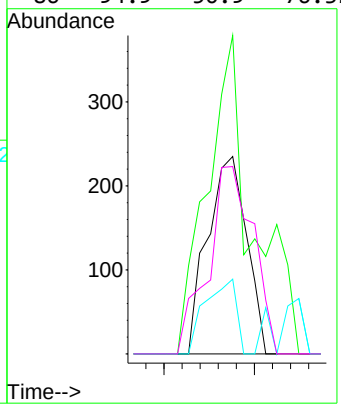


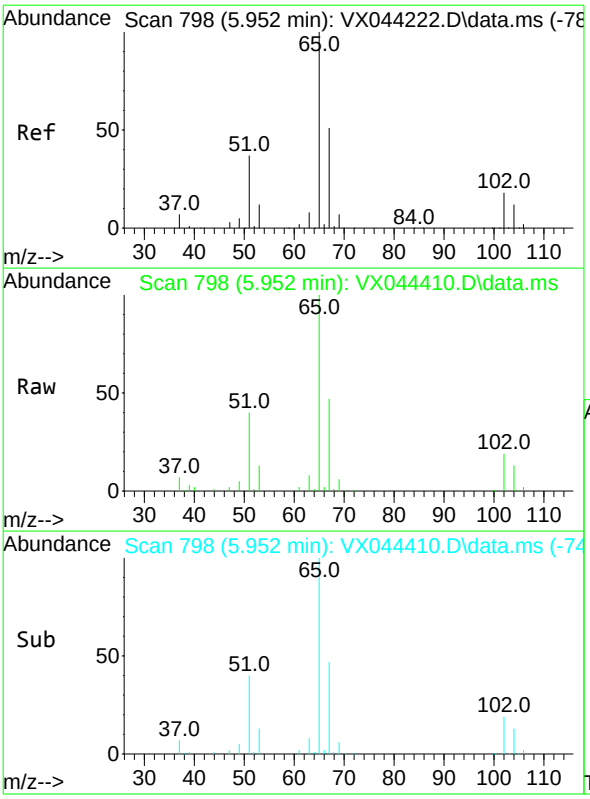


#20
Methylene Chloride
Concen: 0.247 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX044410.D
Acq: 19 Dec 2024 03:44

Tgt Ion: 84 Resp: 353

Ion	Ratio	Lower	Upper
84	100		
49	161.3	104.2	156.4#
51	37.9	32.2	48.4
86	94.9	50.9	76.3#



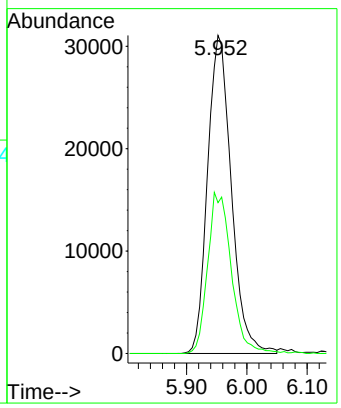


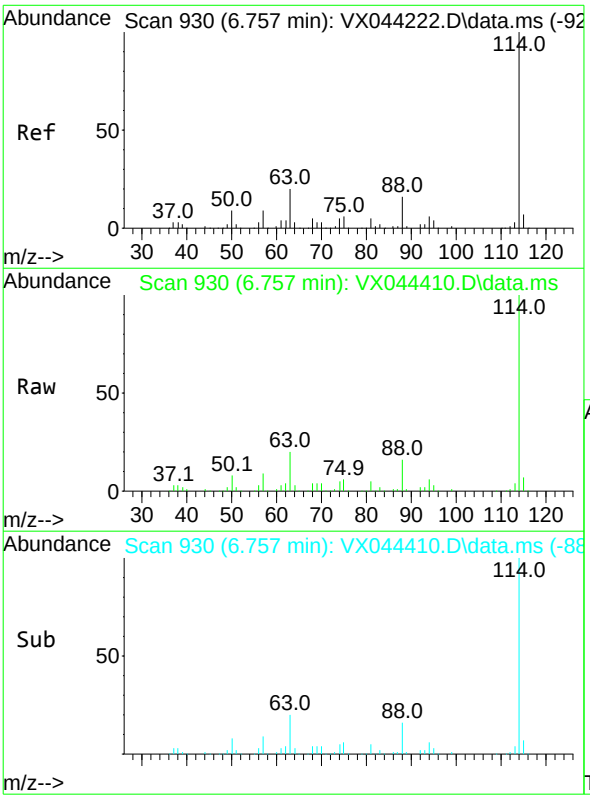
#33
1,2-Dichloroethane-d4
Concen: 45.510 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044410.D
Acq: 19 Dec 2024 03:44

Instrument :
MSVOA_X
ClientSampleId :
TT172S1-20241217

Tgt Ion: 65 Resp: 85005

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	101.6

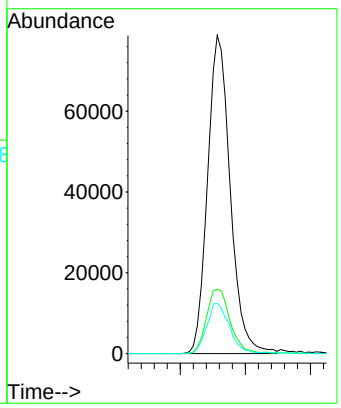


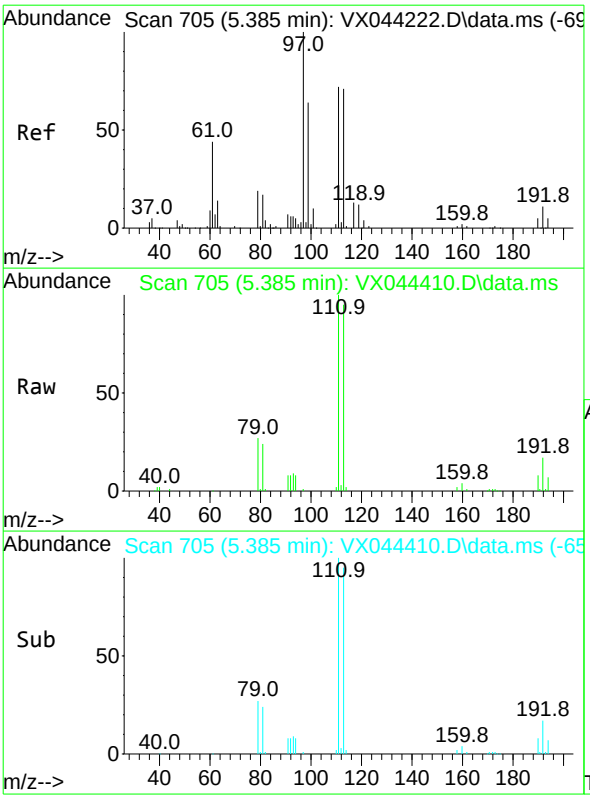


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044410.D
Acq: 19 Dec 2024 03:44

Tgt Ion:114 Resp: 190393

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.6
88	15.8	0.0	31.8



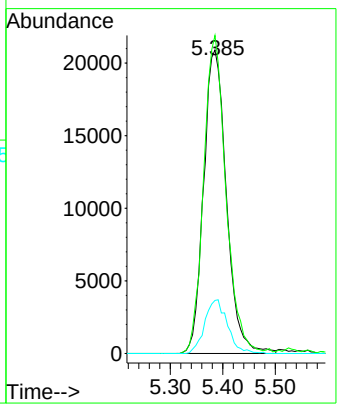


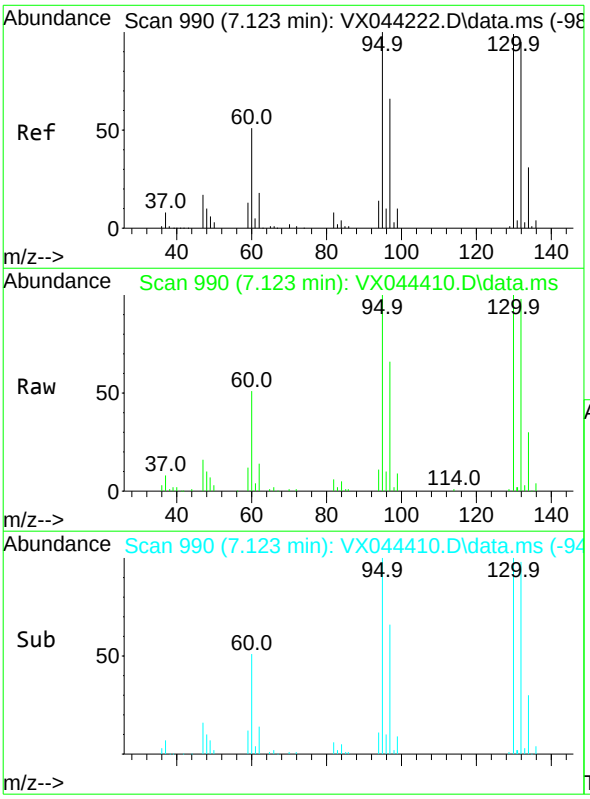
#35
Dibromofluoromethane
Concen: 47.936 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044410.D
Acq: 19 Dec 2024 03:44

Instrument :
MSVOA_X
ClientSampleId :
TT172S1-20241217

Tgt Ion:113 Resp: 63211

Ion	Ratio	Lower	Upper
113	100		
111	102.2	80.4	120.6
192	17.7	13.3	19.9

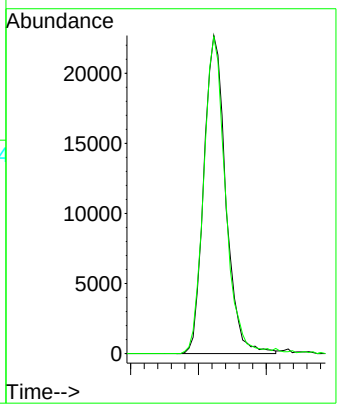


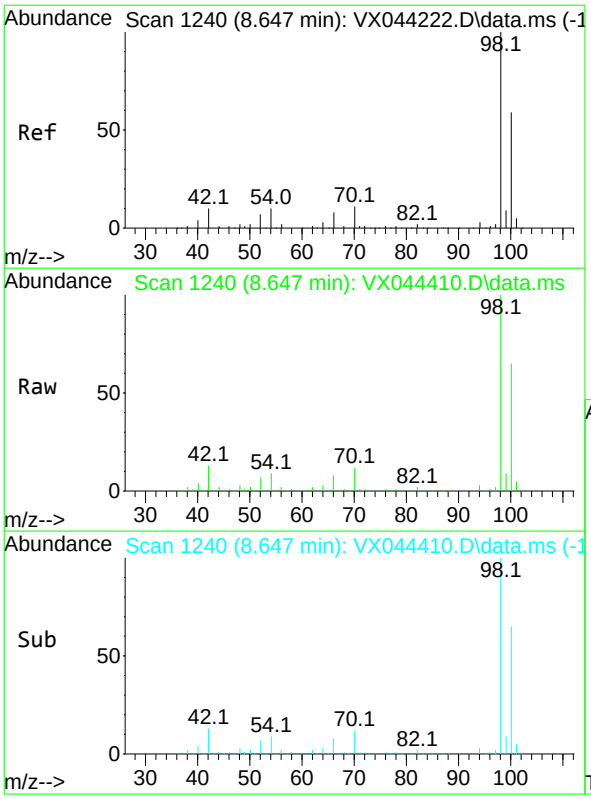


#44
Trichloroethene
Concen: 39.470 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044410.D
Acq: 19 Dec 2024 03:44

Tgt Ion:130 Resp: 50938

Ion	Ratio	Lower	Upper
130	100		
95	99.5	0.0	201.4



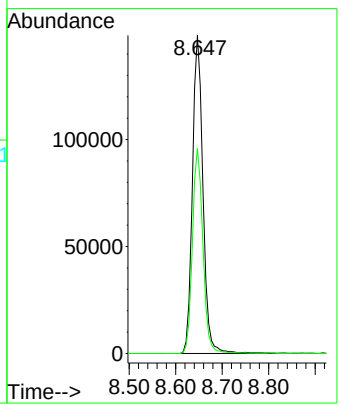


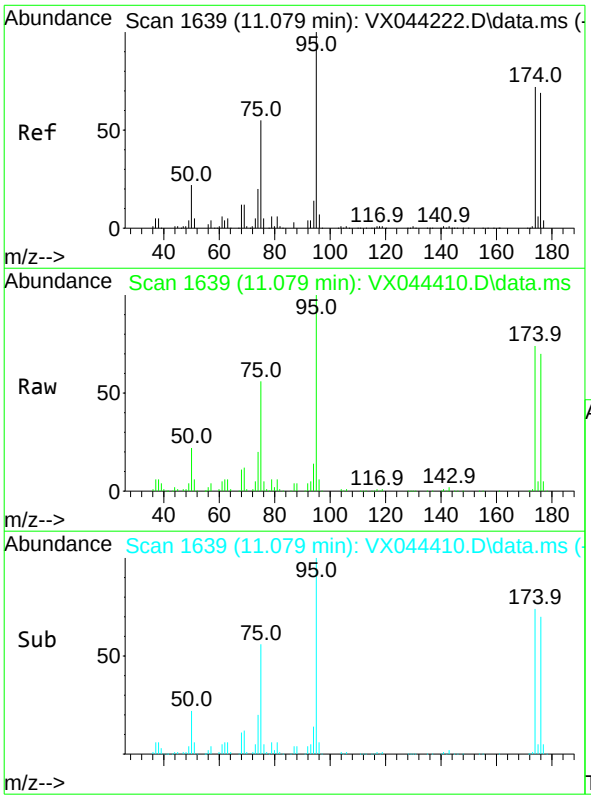
#50
Toluene-d8
Concen: 52.628 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044410.D
Acq: 19 Dec 2024 03:44

Instrument :
MSVOA_X
ClientSampleId :
TT172S1-20241217

Tgt Ion: 98 Resp: 234127

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.5	77.3

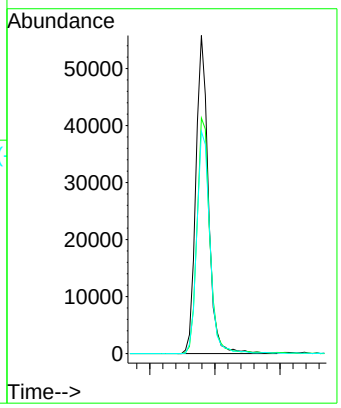


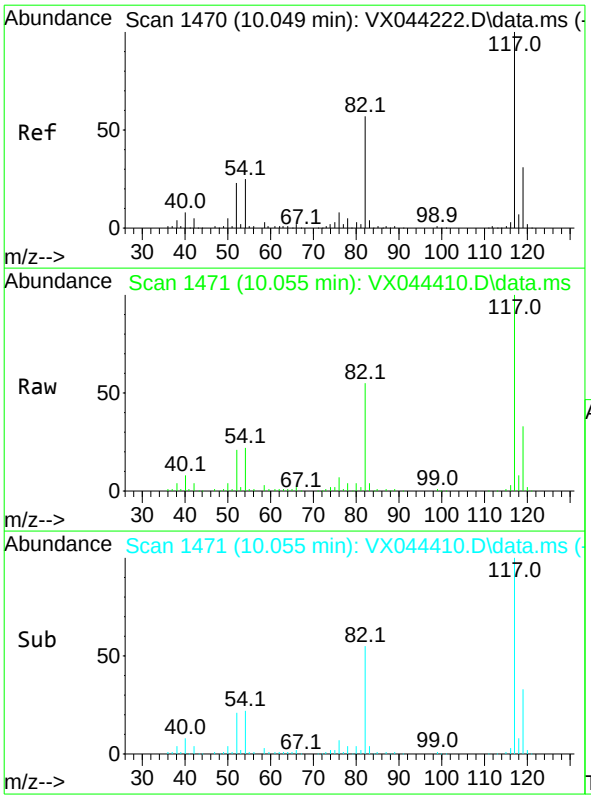


#62
4-Bromofluorobenzene
Concen: 47.805 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044410.D
Acq: 19 Dec 2024 03:44

Tgt Ion: 95 Resp: 74312

Ion	Ratio	Lower	Upper
95	100		
174	76.1	0.0	145.8
176	72.9	0.0	137.8



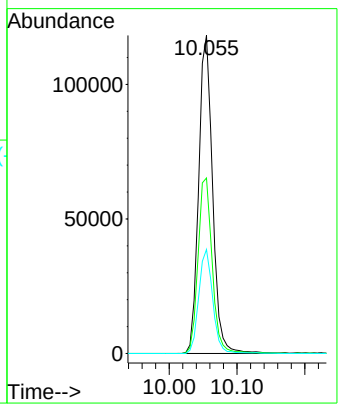


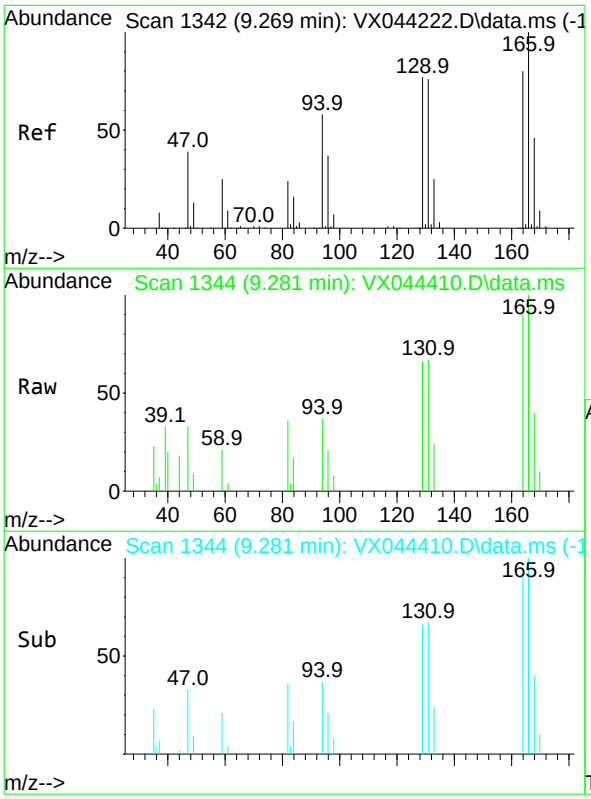
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044410.D
Acq: 19 Dec 2024 03:44

Instrument :
MSVOA_X
ClientSampleId :
TT172S1-20241217

Tgt Ion:117 Resp: 168278

Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.8	68.8
119	32.7	25.0	37.4

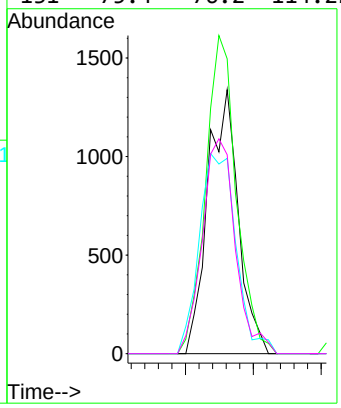


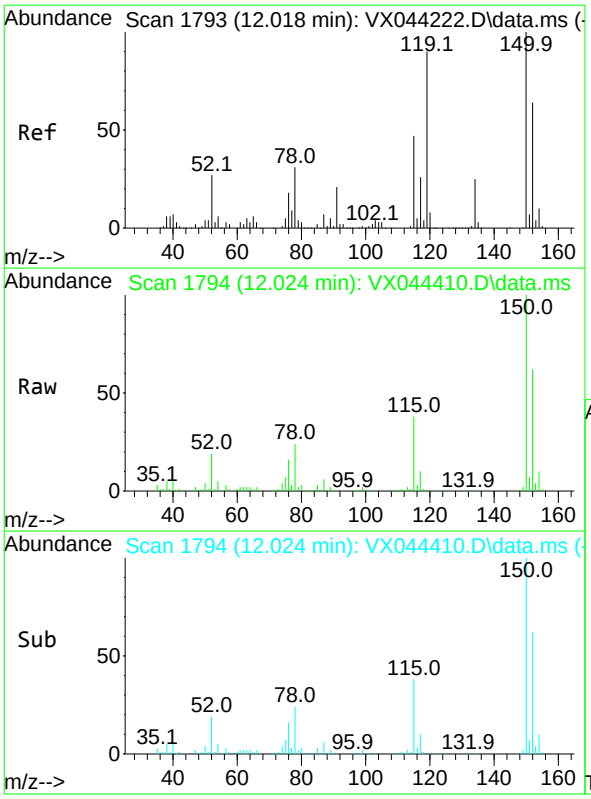


#64
Tetrachloroethene
Concen: 1.870 ug/l
RT: 9.281 min Scan# 1344
Delta R.T. 0.012 min
Lab File: VX044410.D
Acq: 19 Dec 2024 03:44

Tgt Ion:164 Resp: 2089

Ion	Ratio	Lower	Upper
164	100		
166	111.7	100.4	150.6
129	74.0	77.2	115.8#
131	75.4	76.2	114.2#



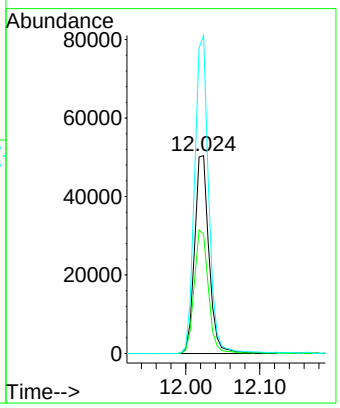


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX044410.D
Acq: 19 Dec 2024 03:44

Instrument :
MSVOA_X
ClientSampleId :
TT172S1-20241217

Tgt Ion:152 Resp: 68296

Ion	Ratio	Lower	Upper
152	100		
115	61.5	44.5	133.3
150	156.8	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW9-MW01S-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-13	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044411.D	1		12/19/24 04:07	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.81	J	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.60	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	6.30		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.32	J	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW9-MW01S-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-13	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044411.D	1		12/19/24 04:07	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	1.30		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.3		81 - 118		93%	SPK: 50
1868-53-7	Dibromofluoromethane	46.9		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	51.4		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.9		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	107000	5.55				
540-36-3	1,4-Difluorobenzene	197000	6.763				
3114-55-4	Chlorobenzene-d5	179000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	73700	12.024				

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW9-MW01S-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-13	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044411.D	1		12/19/24 04:07	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044411.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044411.D
Acq On : 19 Dec 2024 04:07
Operator : JC/MD
Sample : P5317-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 43 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01S-20241217

Quant Time: Dec 19 05:10:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	106718	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	197494	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	178573	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	73713	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	86691	46.331	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 92.660%			
35) Dibromofluoromethane	5.385	113	64172	46.915	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.840%			
50) Toluene-d8	8.647	98	237009	51.360	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.720%			
62) 4-Bromofluorobenzene	11.079	95	77233	47.897	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.800%			
Target Compounds						Qvalue
3) Chloromethane	1.294	50	1270	0.805	ug/l	97
16) Acetone	2.392	43	1243	1.629	ug/l #	69
20) Methylene Chloride	2.788	84	365	0.255	ug/l #	64
44) Trichloroethene	7.135	130	433	0.323	ug/l	80

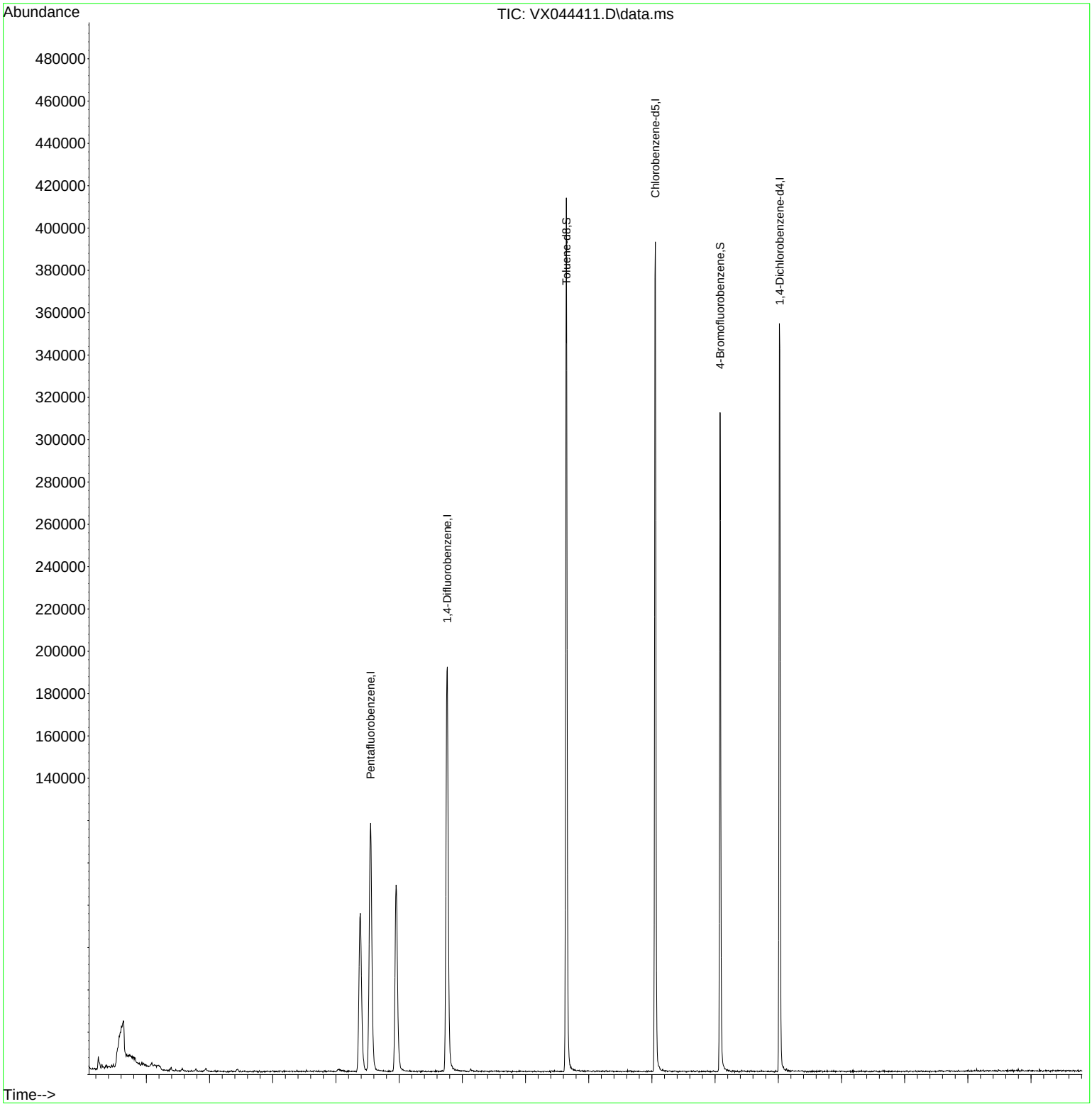
(#) = qualifier out of range (m) = manual integration (+) = signals summed

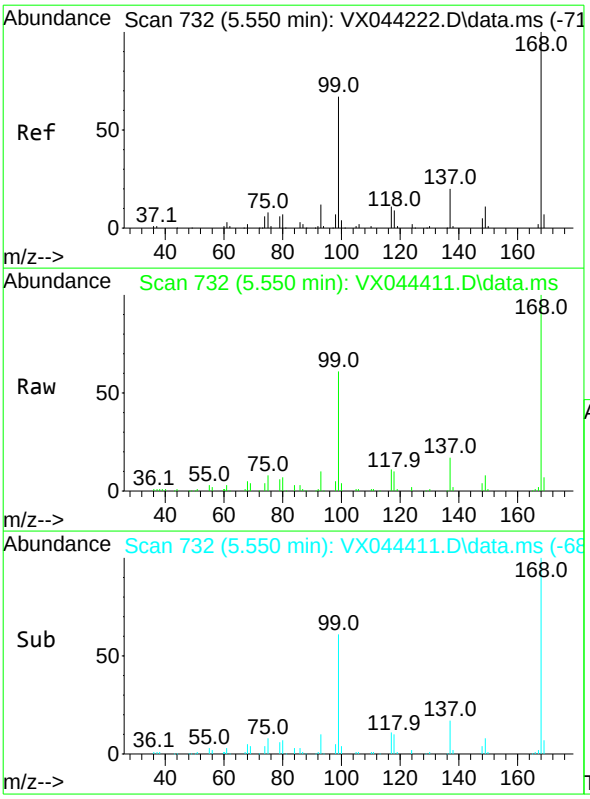
Sample Results: **VX044411.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044411.D
Acq On : 19 Dec 2024 04:07
Operator : JC/MD
Sample : P5317-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 43 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01S-20241217

Quant Time: Dec 19 05:10:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



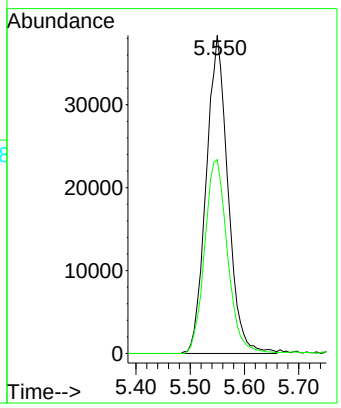


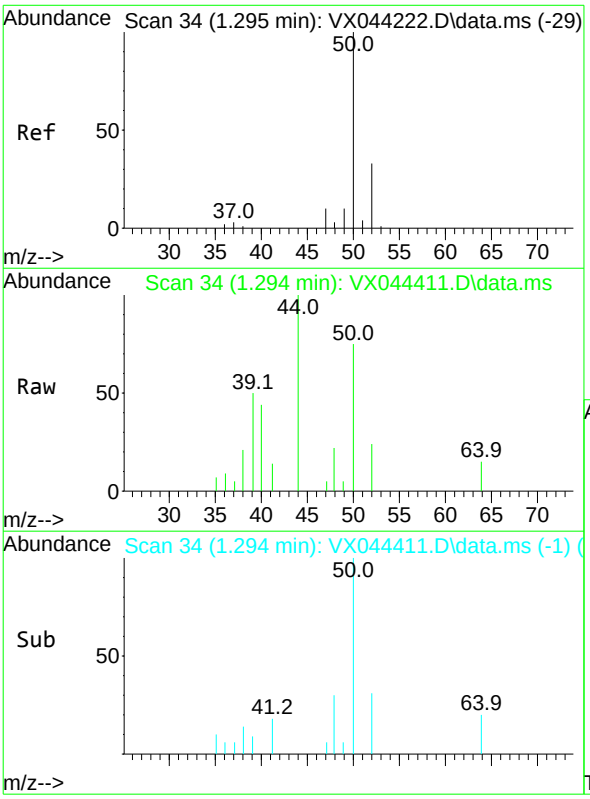
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044411.D
Acq: 19 Dec 2024 04:07

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01S-20241217

Tgt Ion:168 Resp: 106718

Ion	Ratio	Lower	Upper
168	100		
99	60.9	53.4	80.0

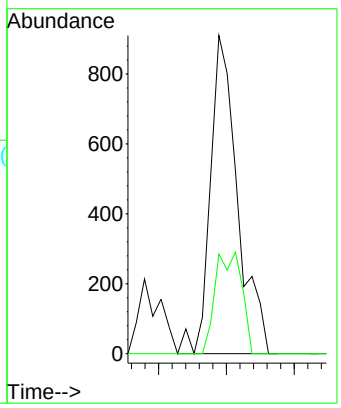


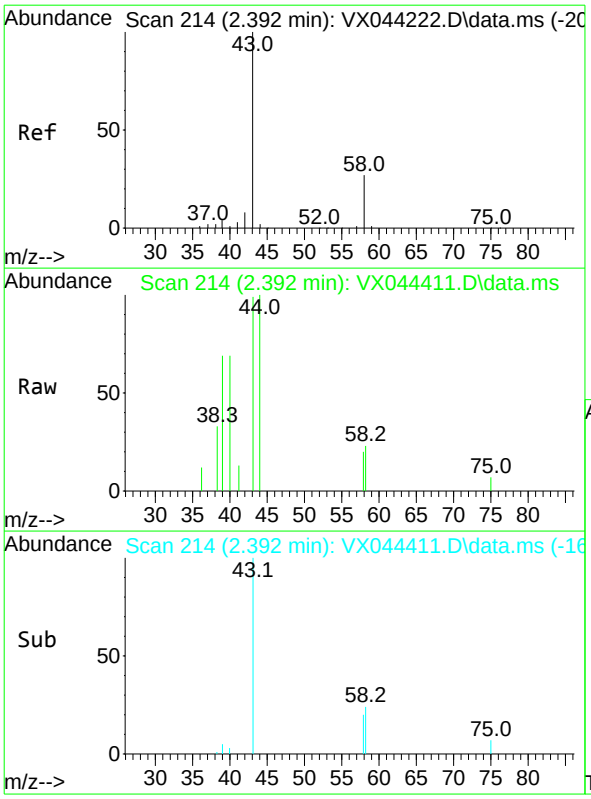


#3
Chloromethane
Concen: 0.805 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044411.D
Acq: 19 Dec 2024 04:07

Tgt Ion: 50 Resp: 1270

Ion	Ratio	Lower	Upper
50	100		
52	31.3	26.5	39.7



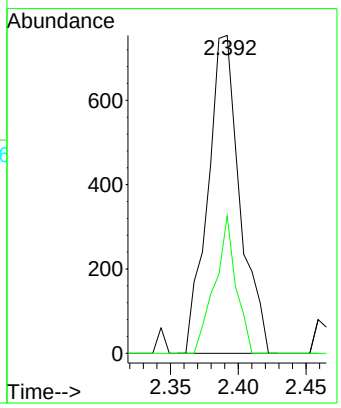


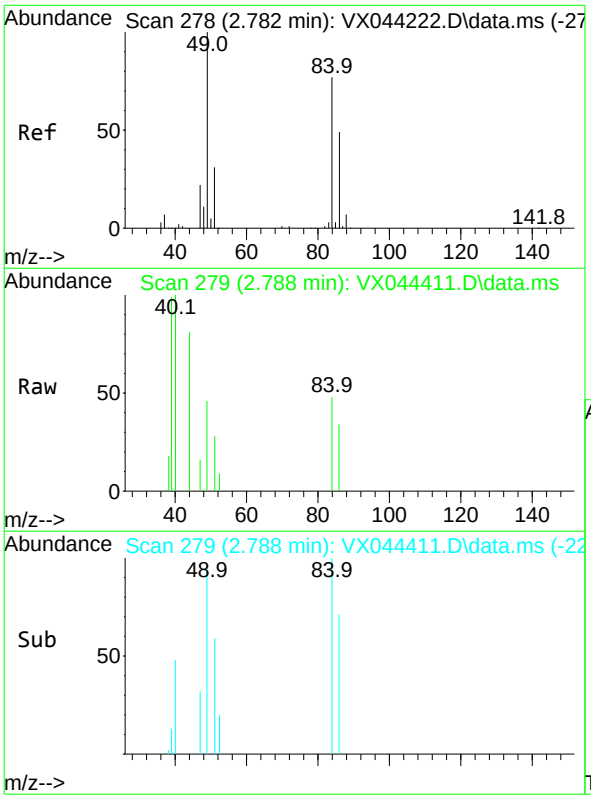
#16
Acetone
Concen: 1.629 ug/l
RT: 2.392 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX044411.D
Acq: 19 Dec 2024 04:07

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01S-20241217

Tgt Ion: 43 Resp: 1243

Ion	Ratio	Lower	Upper
43	100		
58	43.2	21.6	32.4#

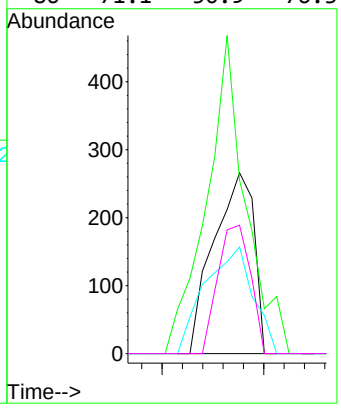


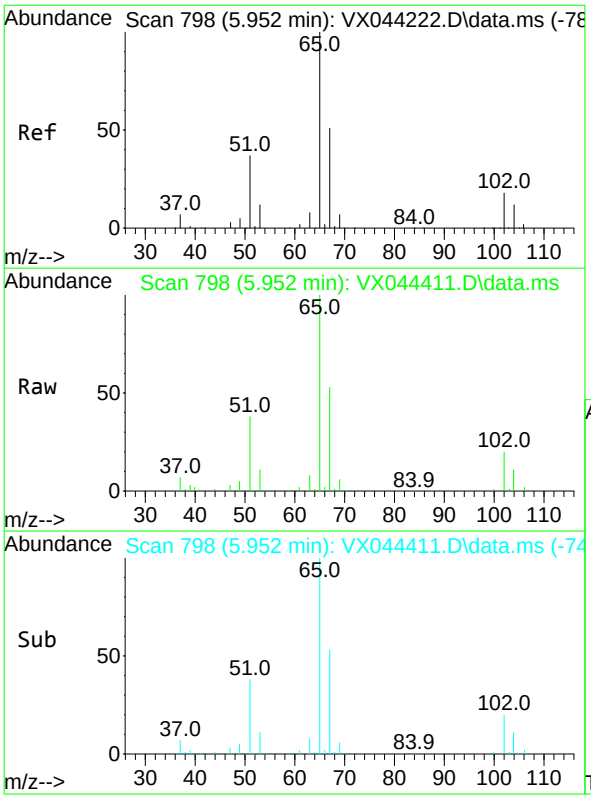


#20
Methylene Chloride
Concen: 0.255 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX044411.D
Acq: 19 Dec 2024 04:07

Tgt Ion: 84 Resp: 365

Ion	Ratio	Lower	Upper
84	100		
49	71.4	104.2	156.4#
51	59.0	32.2	48.4#
86	71.1	50.9	76.3



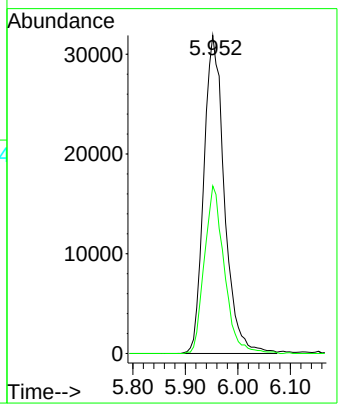


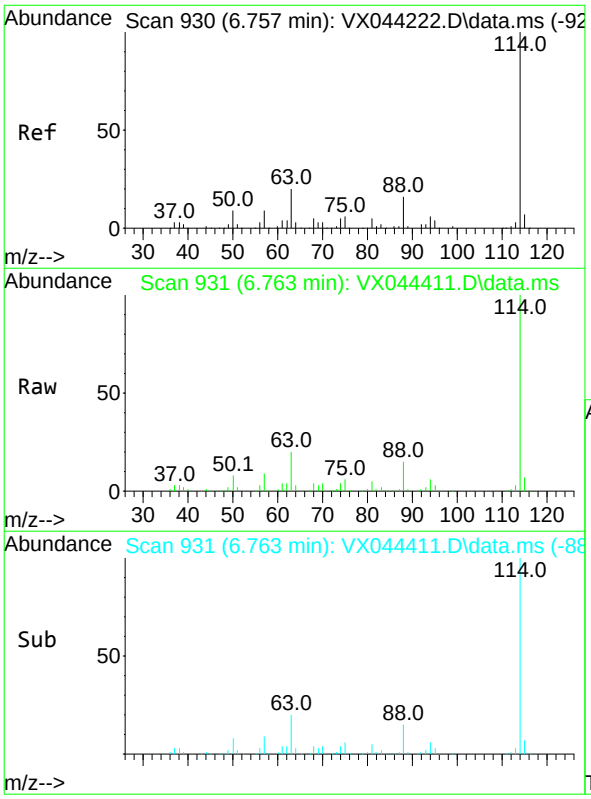
#33
1,2-Dichloroethane-d4
Concen: 46.331 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044411.D
Acq: 19 Dec 2024 04:07

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01S-20241217

Tgt Ion: 65 Resp: 86691

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	101.6

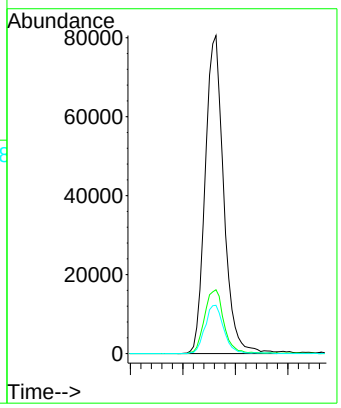


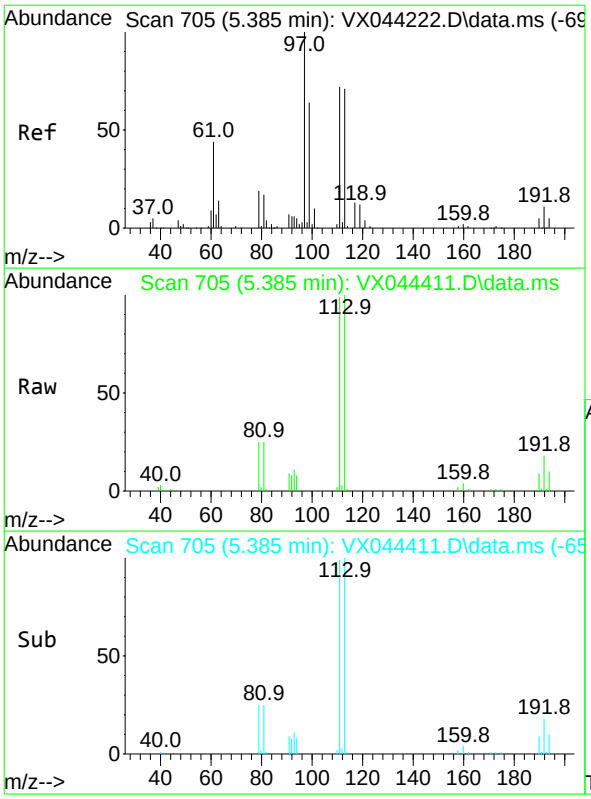


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.006 min
Lab File: VX044411.D
Acq: 19 Dec 2024 04:07

Tgt Ion:114 Resp: 197494

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	40.6
88	15.2	0.0	31.8



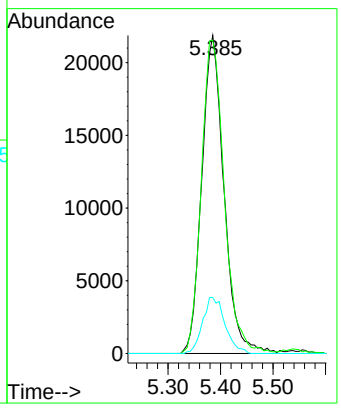


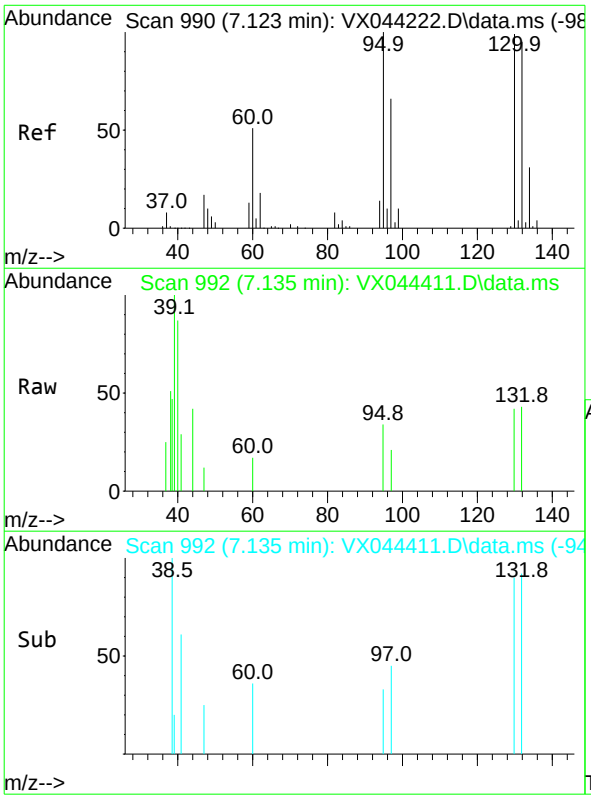
#35
Dibromofluoromethane
Concen: 46.915 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044411.D
Acq: 19 Dec 2024 04:07

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01S-20241217

Tgt Ion:113 Resp: 64172

Ion	Ratio	Lower	Upper
113	100		
111	101.9	80.4	120.6
192	17.8	13.3	19.9

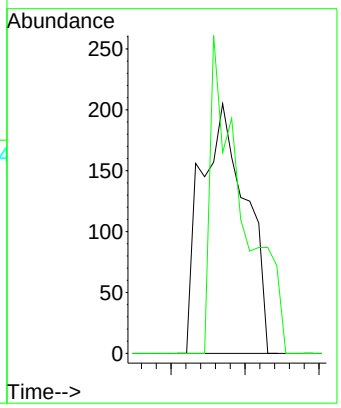


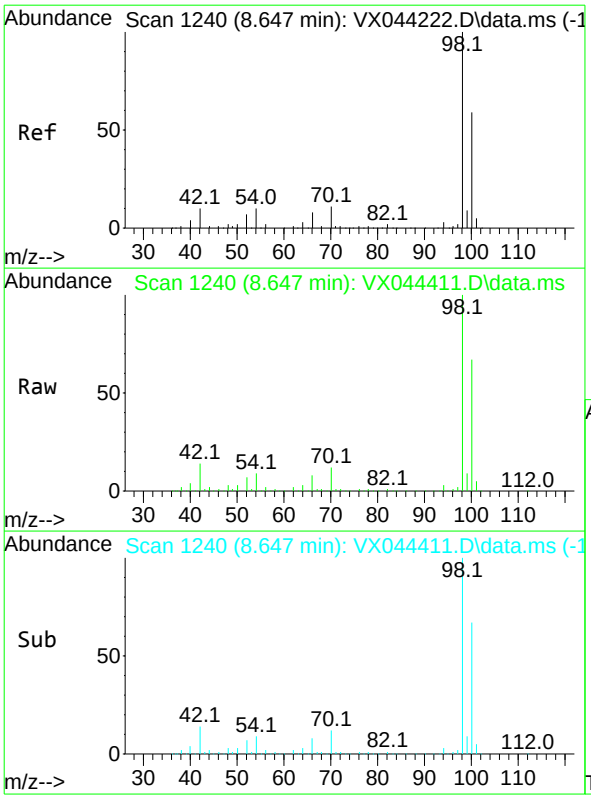


#44
Trichloroethene
Concen: 0.323 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.012 min
Lab File: VX044411.D
Acq: 19 Dec 2024 04:07

Tgt Ion:130 Resp: 433

Ion	Ratio	Lower	Upper
130	100		
95	80.5	0.0	201.4



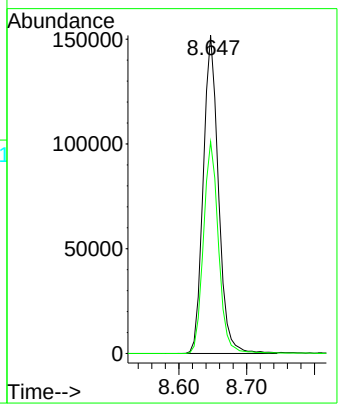


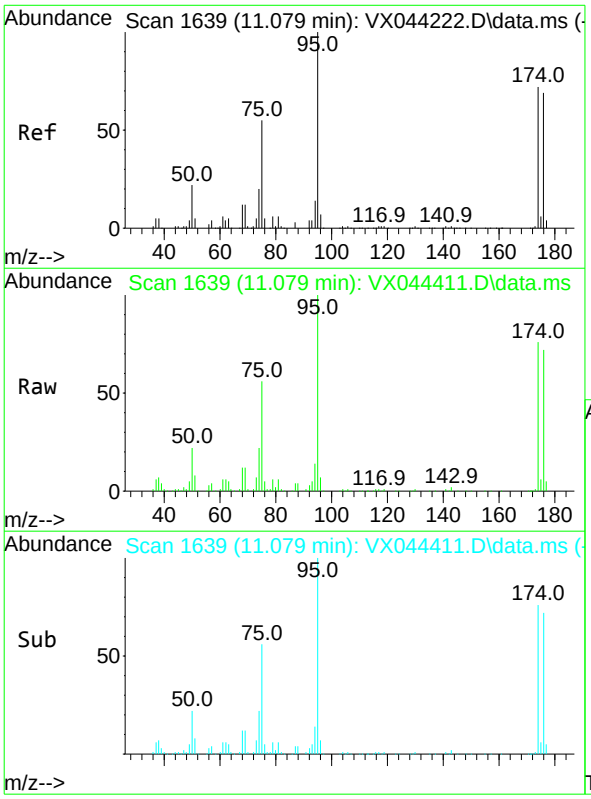
#50
Toluene-d8
Concen: 51.360 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044411.D
Acq: 19 Dec 2024 04:07

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01S-20241217

Tgt Ion: 98 Resp: 237009

Ion	Ratio	Lower	Upper
98	100		
100	65.7	51.5	77.3

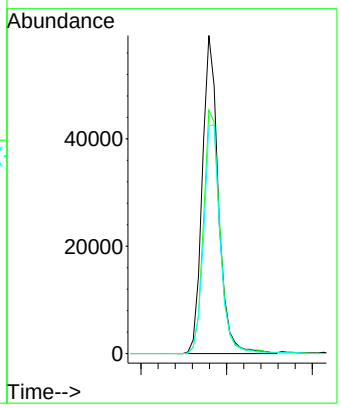


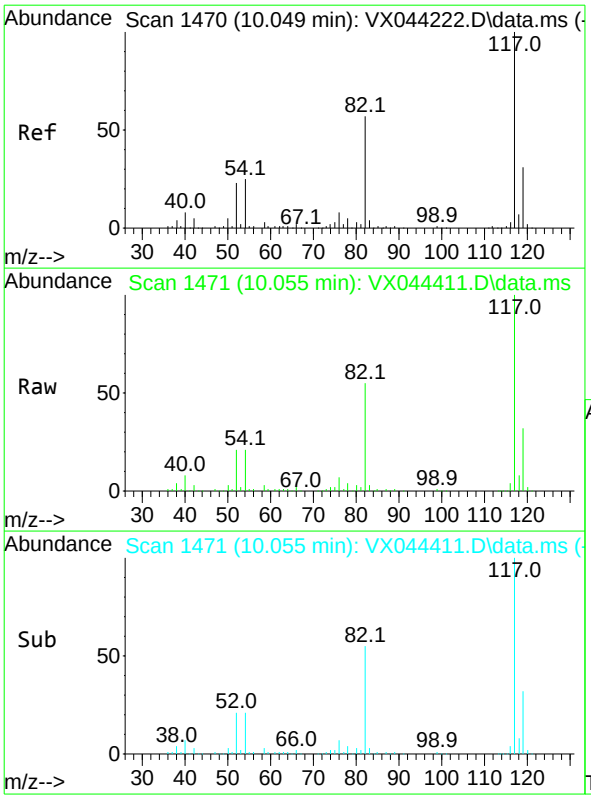


#62
4-Bromofluorobenzene
Concen: 47.897 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044411.D
Acq: 19 Dec 2024 04:07

Tgt Ion: 95 Resp: 77233

Ion	Ratio	Lower	Upper
95	100		
174	79.3	0.0	145.8
176	74.7	0.0	137.8



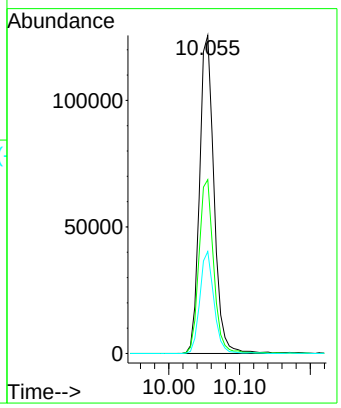


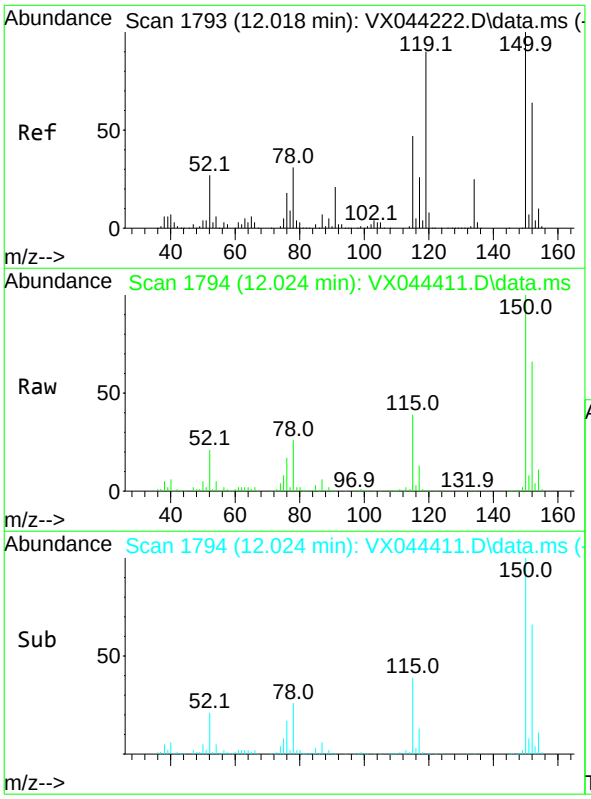
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044411.D
Acq: 19 Dec 2024 04:07

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01S-20241217

Tgt Ion:117 Resp: 178573

Ion	Ratio	Lower	Upper
117	100		
82	54.7	45.8	68.8
119	32.1	25.0	37.4

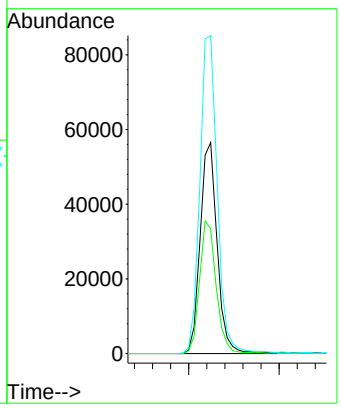




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044411.D
Acq: 19 Dec 2024 04:07

Tgt Ion:152 Resp: 73713

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.5	133.3
150	155.2	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW9-MW01D1-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044412.D	1		12/19/24 04:31	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	6.20		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Raw Data: **VX044412.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW9-MW01D1-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044412.D	1		12/19/24 04:31	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.1		81 - 118		92%	SPK: 50
1868-53-7	Dibromofluoromethane	47.3		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	51.7		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	111000	5.55				
540-36-3	1,4-Difluorobenzene	207000	6.757				
3114-55-4	Chlorobenzene-d5	181000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	74000	12.024				

Raw Data: **VX044412.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW9-MW01D1-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044412.D	1		12/19/24 04:31	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044412.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044412.D
Acq On : 19 Dec 2024 04:31
Operator : JC/MD
Sample : P5317-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D1-20241217

Quant Time: Dec 19 05:11:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	111175	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	207120	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	180812	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	74025	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	89922	46.131	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 92.260%			
35) Dibromofluoromethane	5.385	113	67869	47.312	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.620%			
50) Toluene-d8	8.647	98	250204	51.700	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.400%			
62) 4-Bromofluorobenzene	11.079	95	78327	46.318	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.640%			
Target Compounds						Qvalue
16) Acetone	2.386	43	920	1.158	ug/l	93

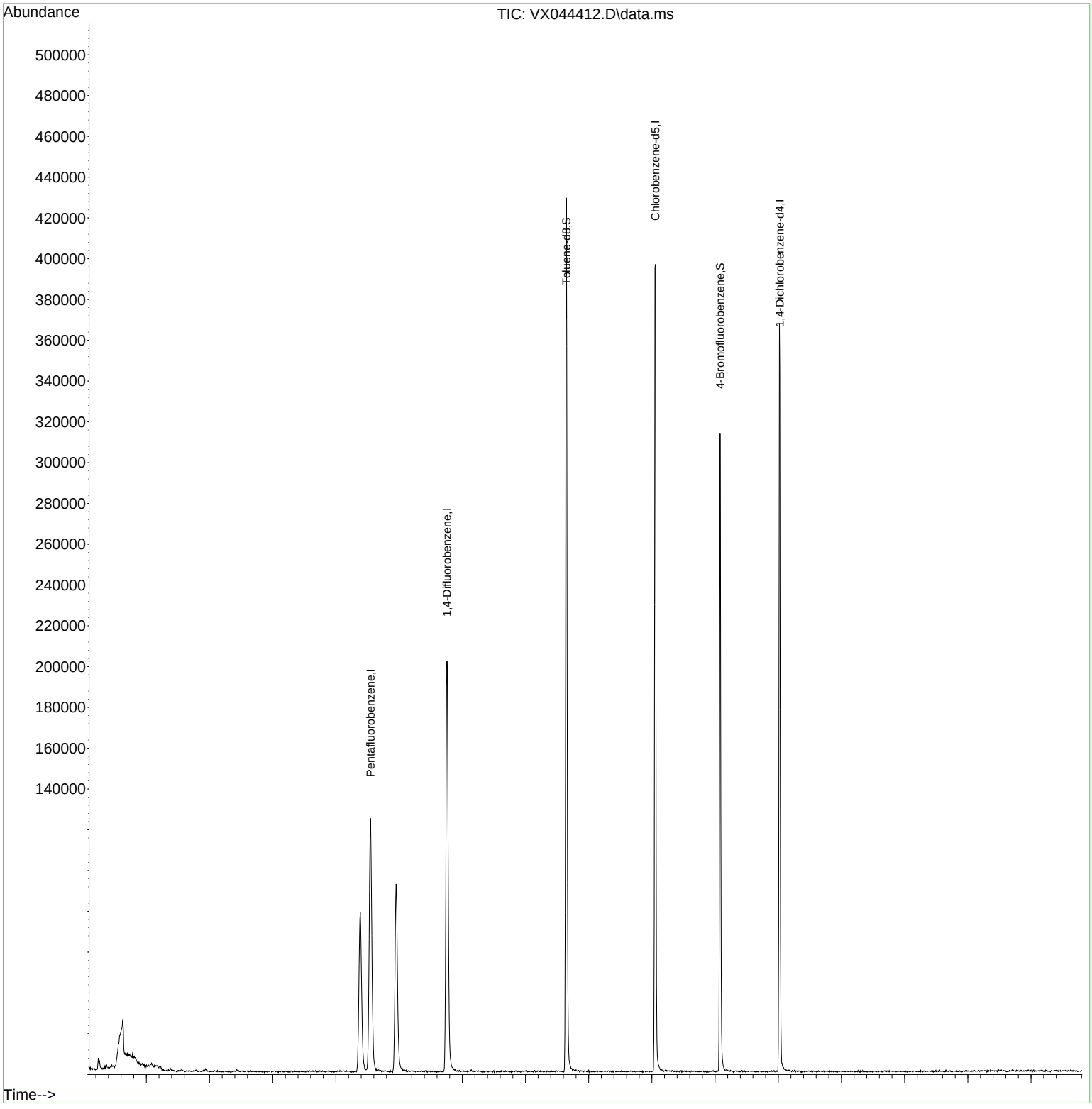
(#) = qualifier out of range (m) = manual integration (+) = signals summed

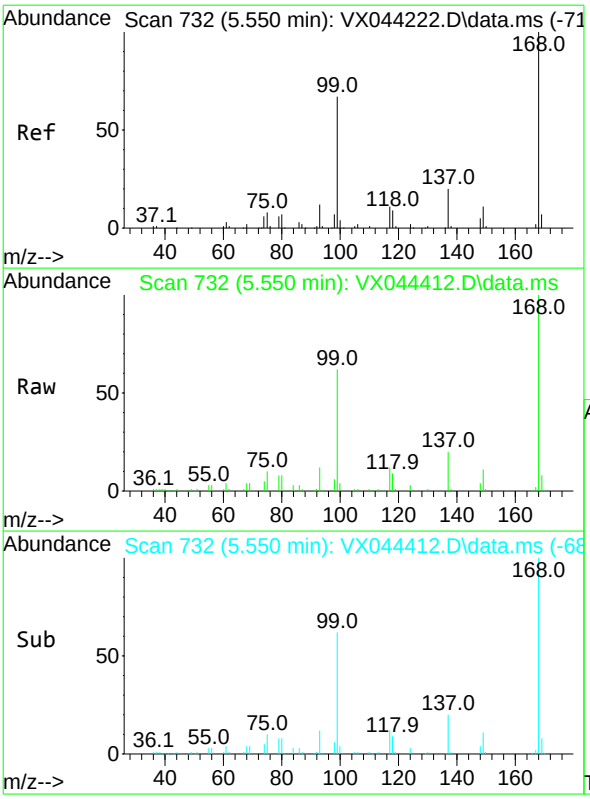
Sample Results: **VX044412.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044412.D
Acq On : 19 Dec 2024 04:31
Operator : JC/MD
Sample : P5317-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D1-20241217

Quant Time: Dec 19 05:11:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



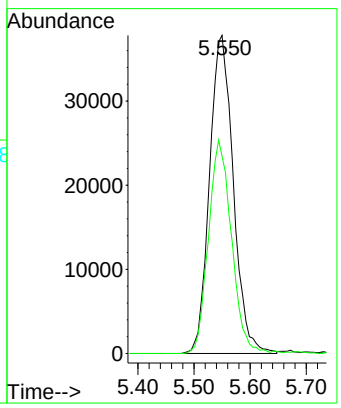


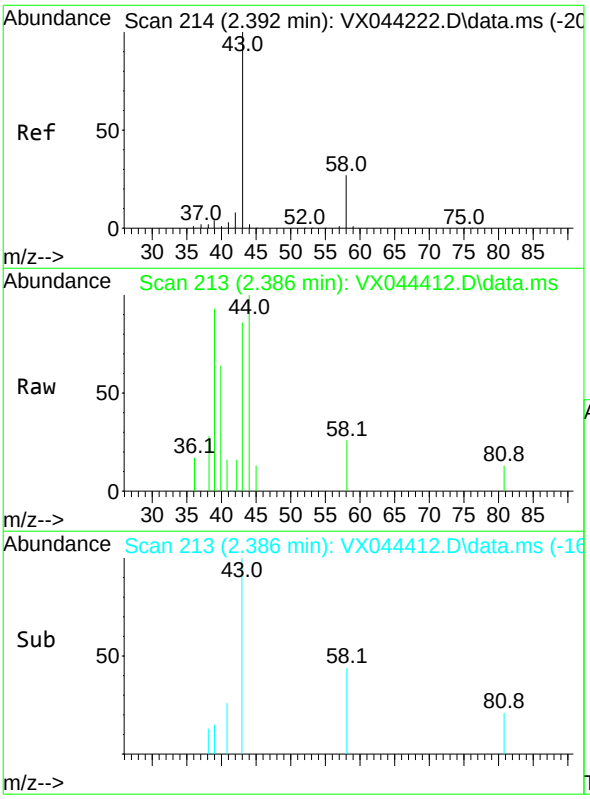
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044412.D
Acq: 19 Dec 2024 04:31

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D1-20241217

Tgt Ion:168 Resp: 111175

Ion	Ratio	Lower	Upper
168	100		
99	62.0	53.4	80.0

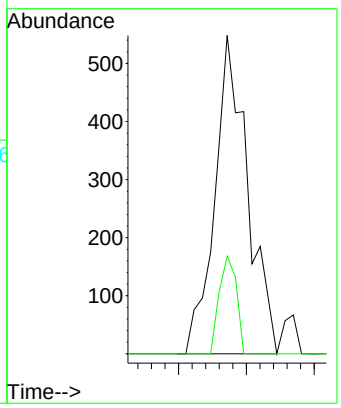


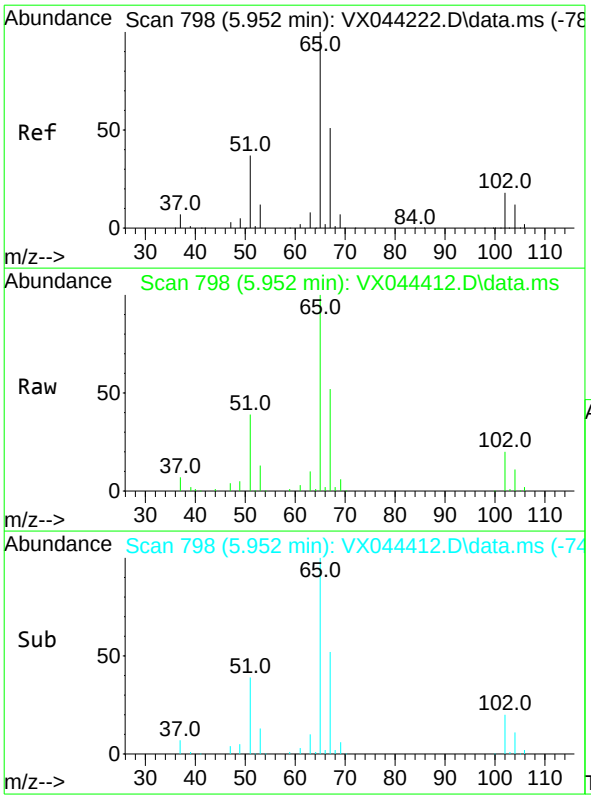


#16
Acetone
Concen: 1.158 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044412.D
Acq: 19 Dec 2024 04:31

Tgt Ion: 43 Resp: 920

Ion	Ratio	Lower	Upper
43	100		
58	30.7	21.6	32.4



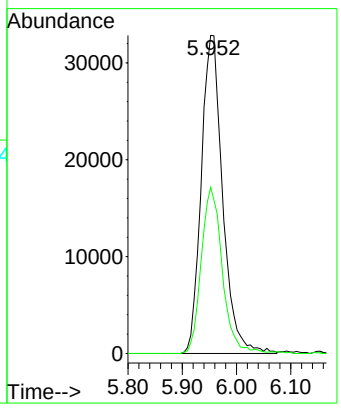


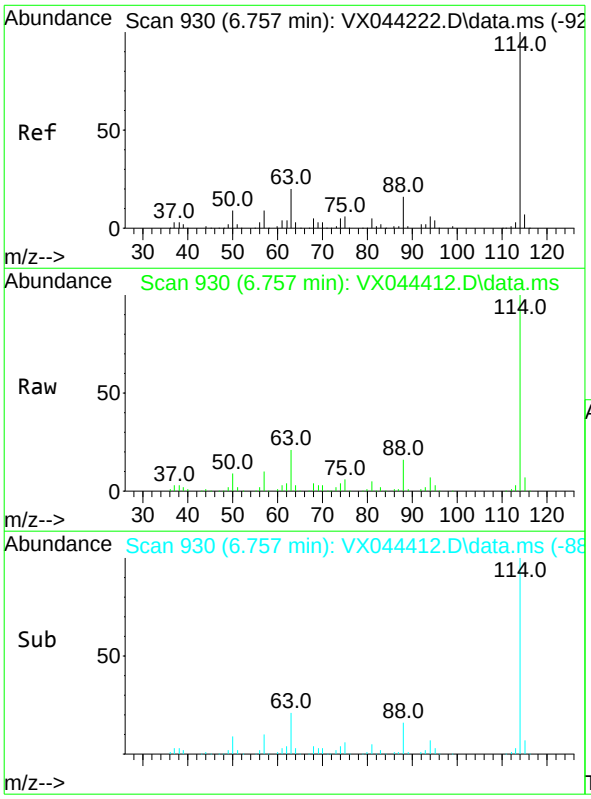
#33
1,2-Dichloroethane-d4
Concen: 46.131 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.000 min
Lab File: VX044412.D
Acq: 19 Dec 2024 04:31

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D1-20241217

Tgt Ion: 65 Resp: 89922

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	101.6

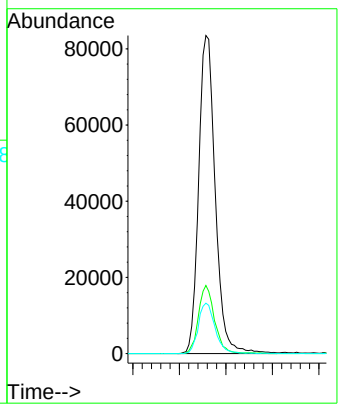


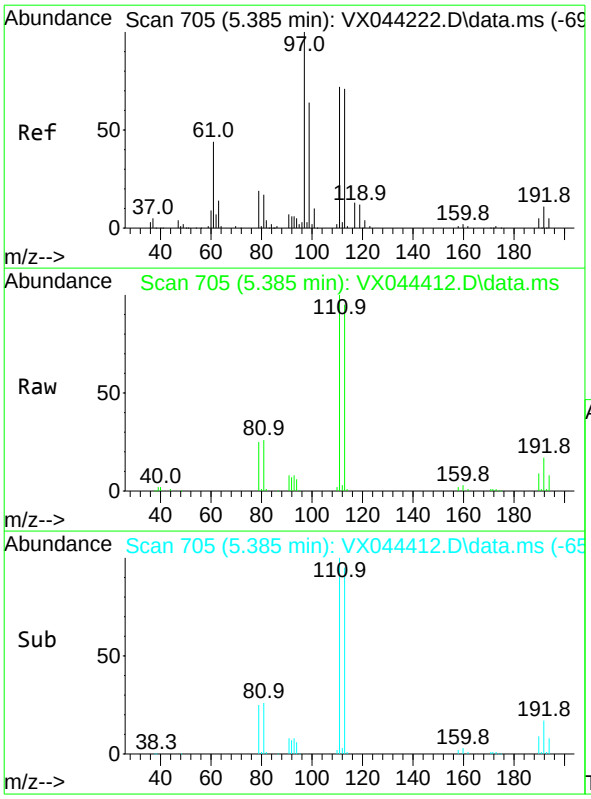


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044412.D
Acq: 19 Dec 2024 04:31

Tgt Ion:114 Resp: 207120

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	40.6
88	15.9	0.0	31.8



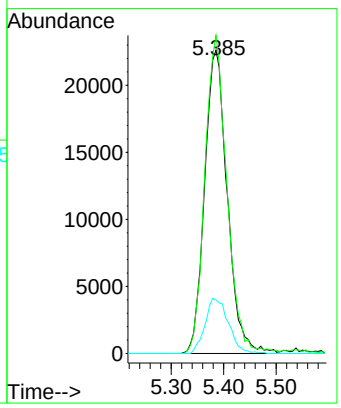


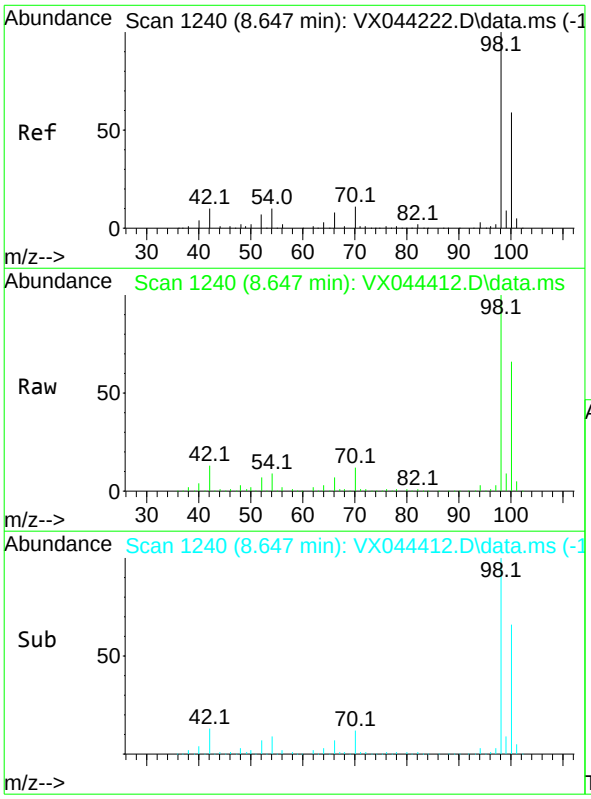
#35
Dibromofluoromethane
Concen: 47.312 ug/l
RT: 5.385 min Scan# 70
Delta R.T. 0.000 min
Lab File: VX044412.D
Acq: 19 Dec 2024 04:31

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D1-20241217

Tgt Ion:113 Resp: 67869

Ion	Ratio	Lower	Upper
113	100		
111	102.2	80.4	120.6
192	18.7	13.3	19.9

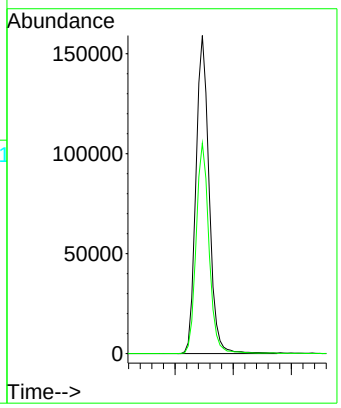


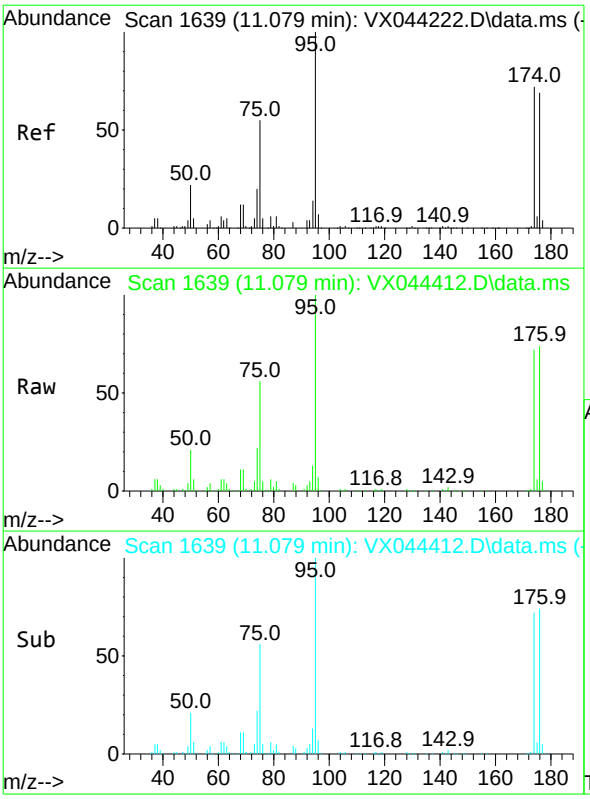


#50
Toluene-d8
Concen: 51.700 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044412.D
Acq: 19 Dec 2024 04:31

Tgt Ion: 98 Resp: 250204

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.5	77.3



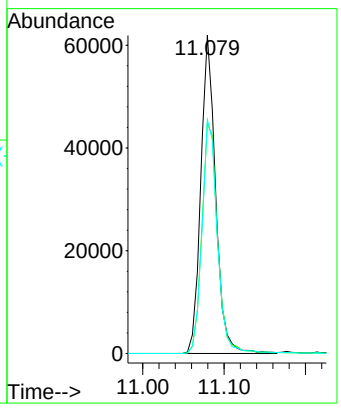


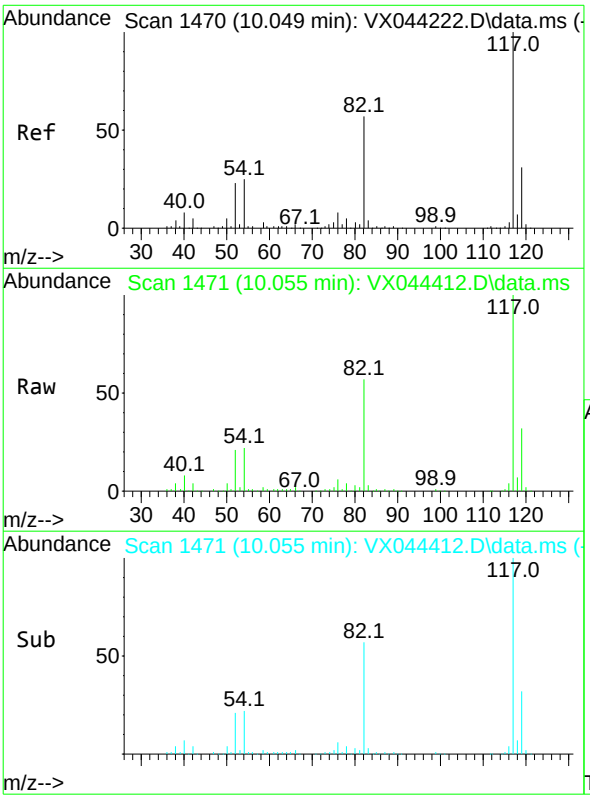
#62
4-Bromofluorobenzene
Concen: 46.318 ug/l
RT: 11.079 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044412.D
Acq: 19 Dec 2024 04:31

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D1-20241217

Tgt Ion: 95 Resp: 78327

Ion	Ratio	Lower	Upper
95	100		
174	77.2	0.0	145.8
176	76.2	0.0	137.8

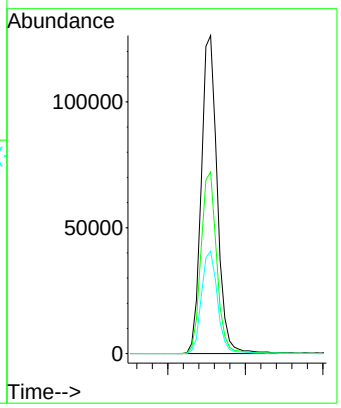


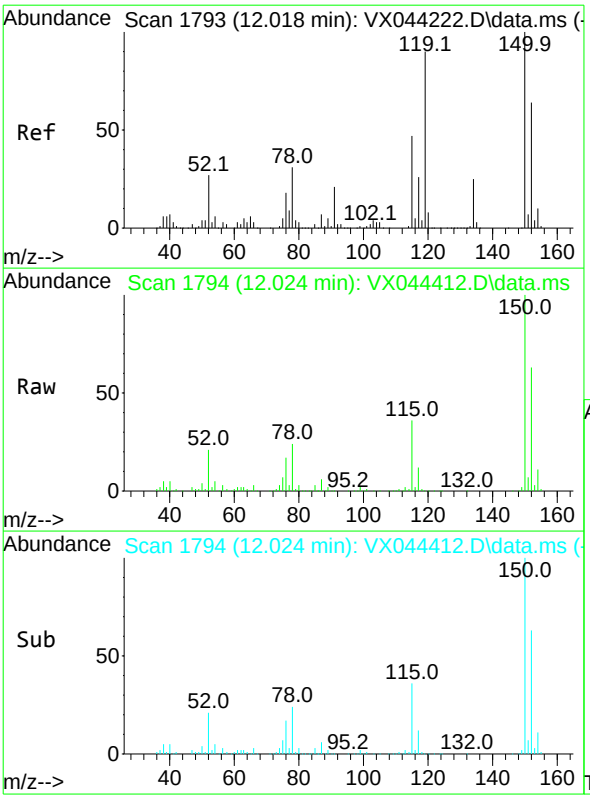


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044412.D
Acq: 19 Dec 2024 04:31

Tgt Ion:117 Resp: 180812

Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.8	68.8
119	32.2	25.0	37.4



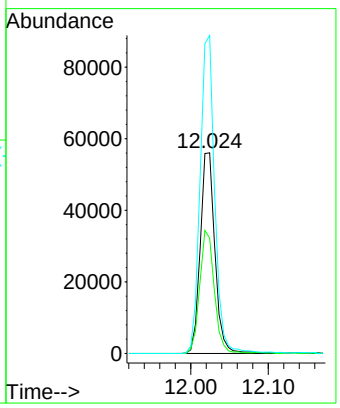


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX044412.D
Acq: 19 Dec 2024 04:31

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D1-20241217

Tgt Ion:152 Resp: 74025

Ion	Ratio	Lower	Upper
152	100		
115	60.7	44.5	133.3
150	157.9	0.0	353.8



Raw Data: **VX044413.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW9-MW01D2-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-15	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044413.D	1		12/19/24 04:54	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW9-MW01D2-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-15	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044413.D	1		12/19/24 04:54	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.7		81 - 118		91%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	51.0		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		85 - 114		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	105000	5.55				
540-36-3	1,4-Difluorobenzene	189000	6.757				
3114-55-4	Chlorobenzene-d5	165000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	62400	12.024				

Raw Data: **VX044413.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW9-MW01D2-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-15	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044413.D	1		12/19/24 04:54	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (LSC Reviewed)

Sample Results: **VX044413.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044413.D
Acq On : 19 Dec 2024 04:54
Operator : JC/MD
Sample : P5317-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 45 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D2-20241217

Quant Time: Dec 19 06:40:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

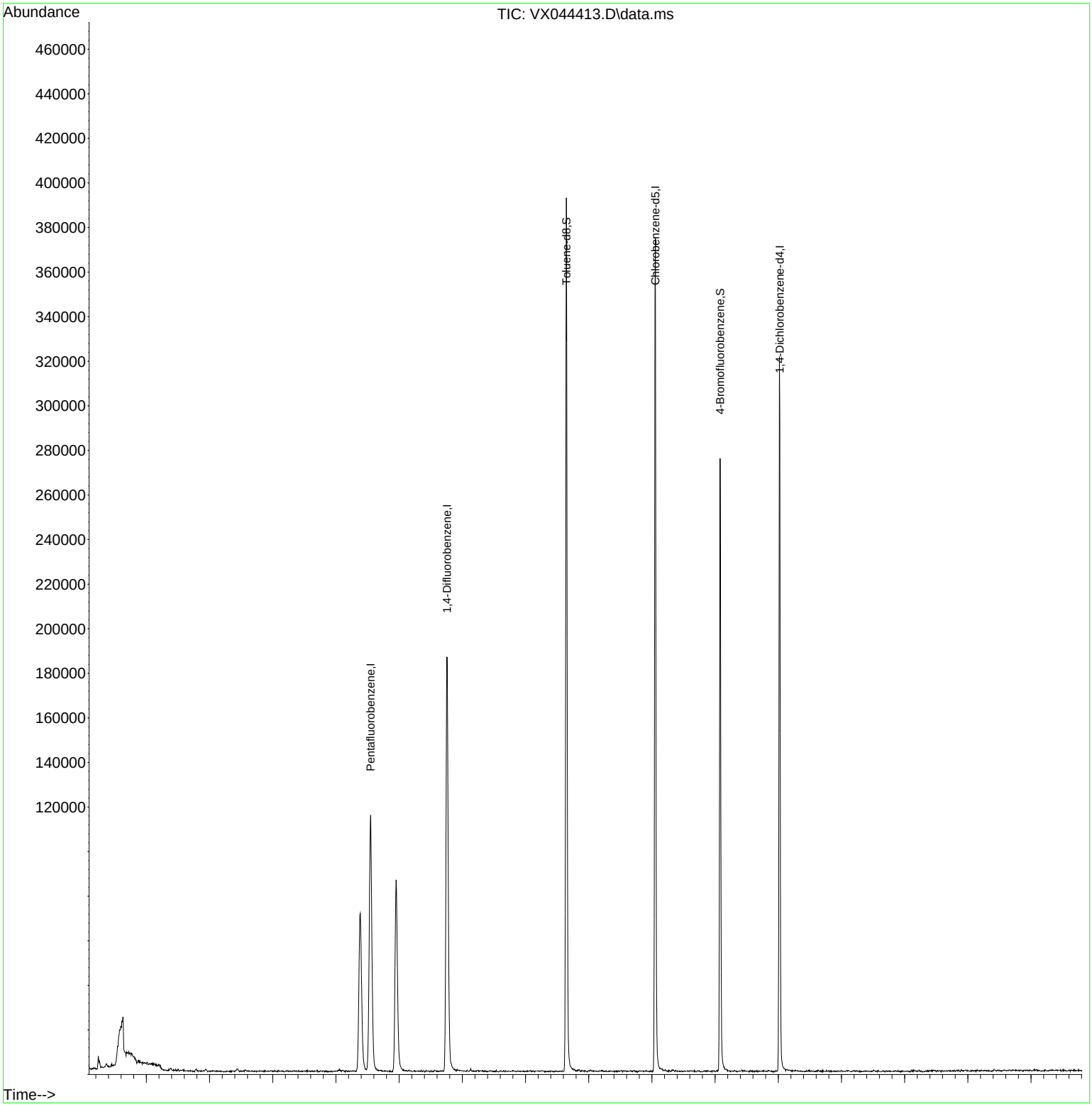
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	104505	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	188770	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	164946	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	62374	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	83816	45.743	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 91.480%			
35) Dibromofluoromethane	5.385	113	62790	48.026	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.060%			
50) Toluene-d8	8.647	98	224956	51.001	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.000%			
62) 4-Bromofluorobenzene	11.079	95	69342	44.991	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.980%			
Target Compounds						Qvalue
16) Acetone	2.386	43	941	1.260	ug/l #	81
20) Methylene Chloride	2.794	84	410	0.292	ug/l #	51

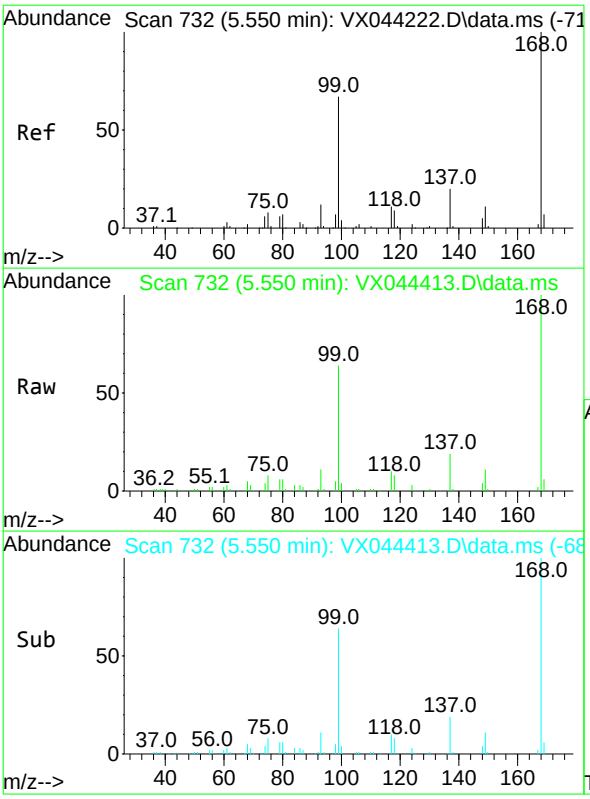
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044413.D
Acq On : 19 Dec 2024 04:54
Operator : JC/MD
Sample : P5317-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 45 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D2-20241217

Quant Time: Dec 19 06:40:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



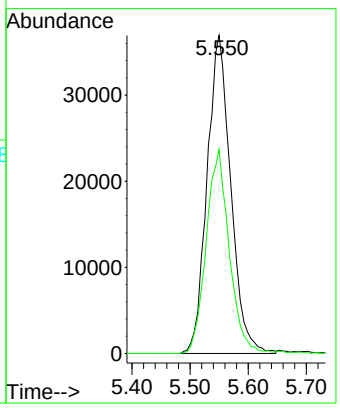


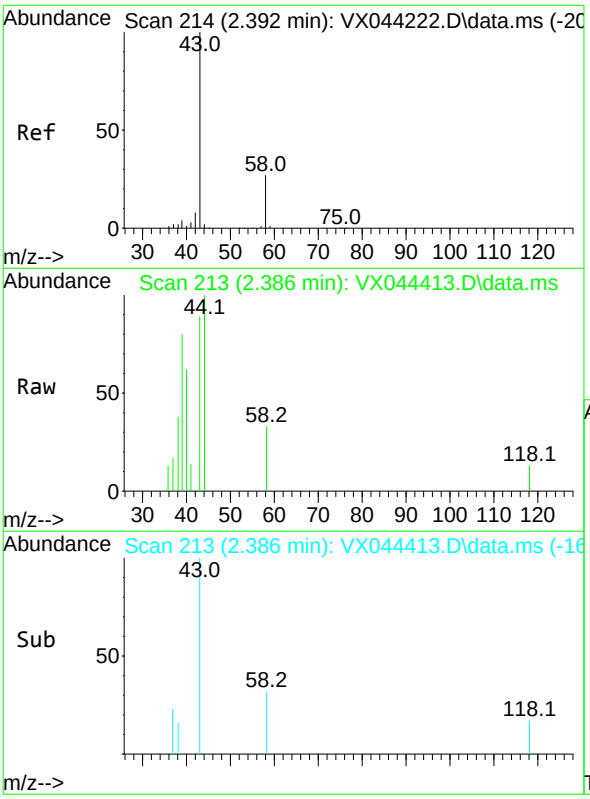
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044413.D
Acq: 19 Dec 2024 04:54

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D2-20241217

Tgt Ion:168 Resp: 104505

Ion	Ratio	Lower	Upper
168	100		
99	64.2	53.4	80.0

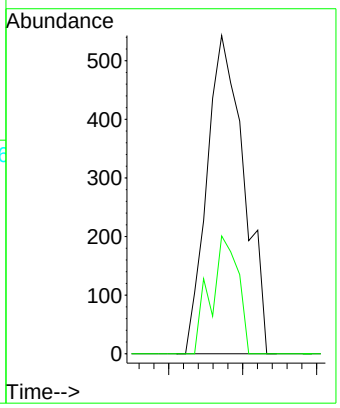


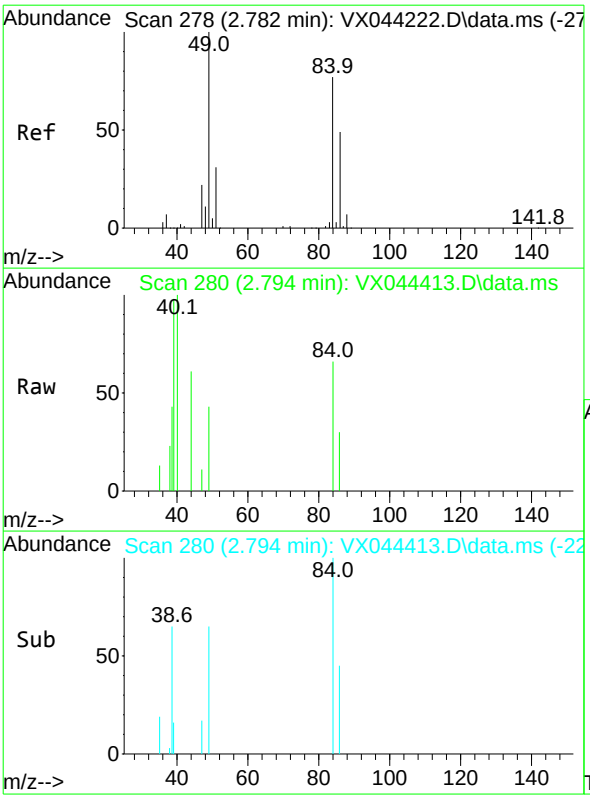


#16
Acetone
Concen: 1.260 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044413.D
Acq: 19 Dec 2024 04:54

Tgt Ion: 43 Resp: 941

Ion	Ratio	Lower	Upper
43	100		
58	37.0	21.6	32.4#



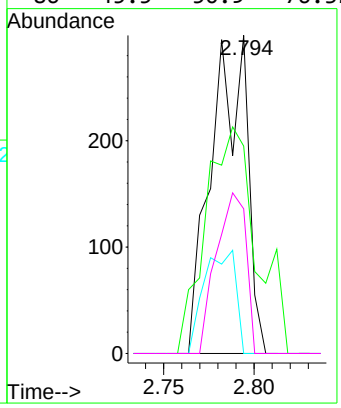


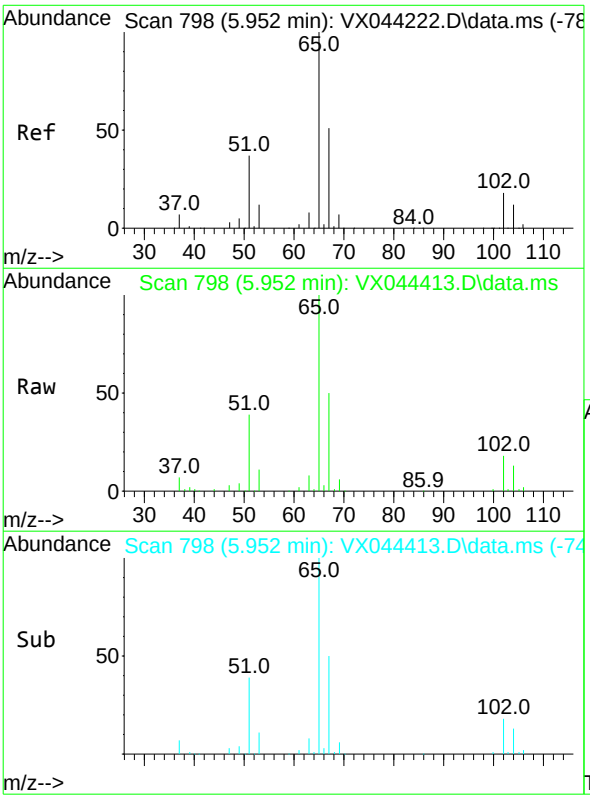
#20
Methylene Chloride
Concen: 0.292 ug/l
RT: 2.794 min Scan# 28
Delta R.T. 0.012 min
Lab File: VX044413.D
Acq: 19 Dec 2024 04:54

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D2-20241217

Tgt Ion: 84 Resp: 410

Ion	Ratio	Lower	Upper
84	100		
49	65.2	104.2	156.4#
51	0.0	32.2	48.4#
86	45.5	50.9	76.3#

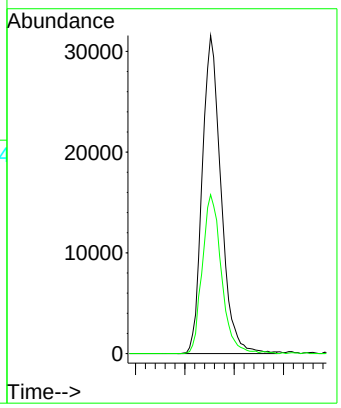


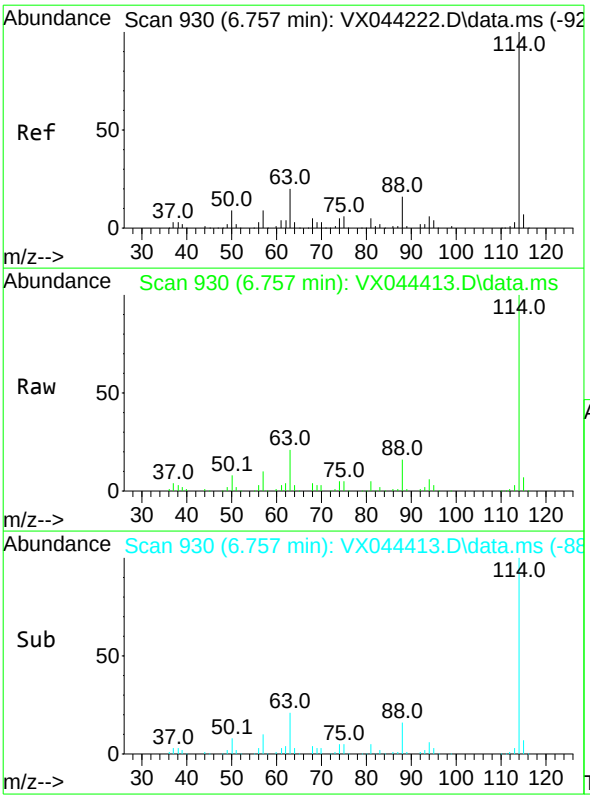


#33
1,2-Dichloroethane-d4
Concen: 45.743 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044413.D
Acq: 19 Dec 2024 04:54

Tgt Ion: 65 Resp: 83816

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.6



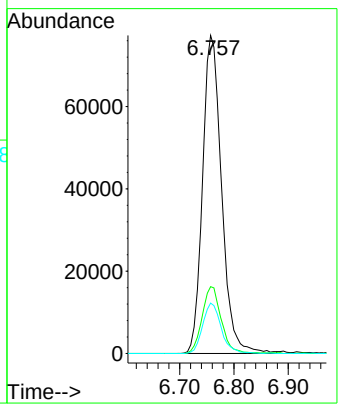


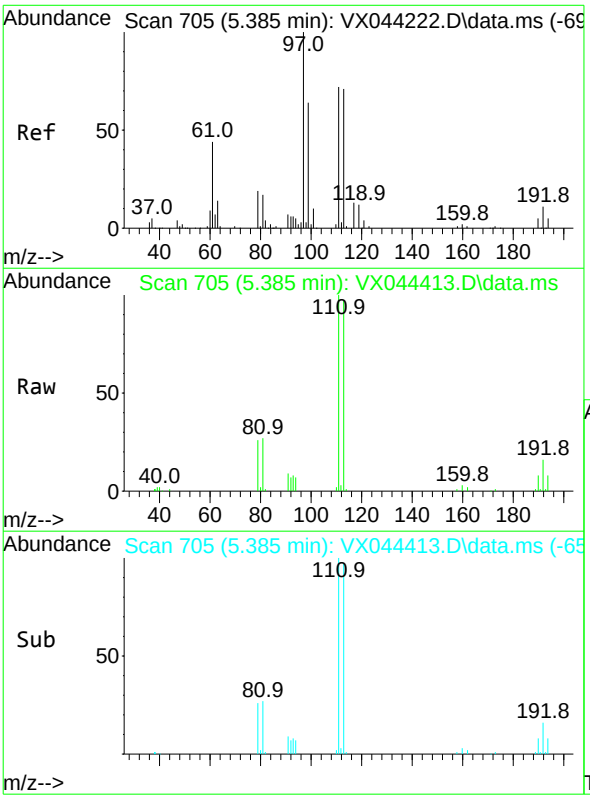
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044413.D
Acq: 19 Dec 2024 04:54

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D2-20241217

Tgt Ion:114 Resp: 188770

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	40.6
88	15.8	0.0	31.8

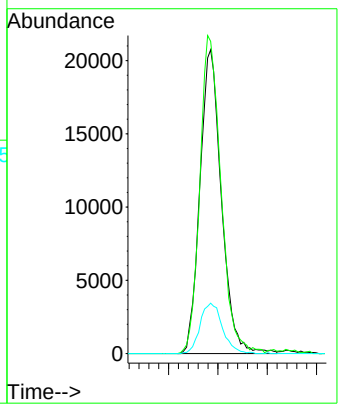


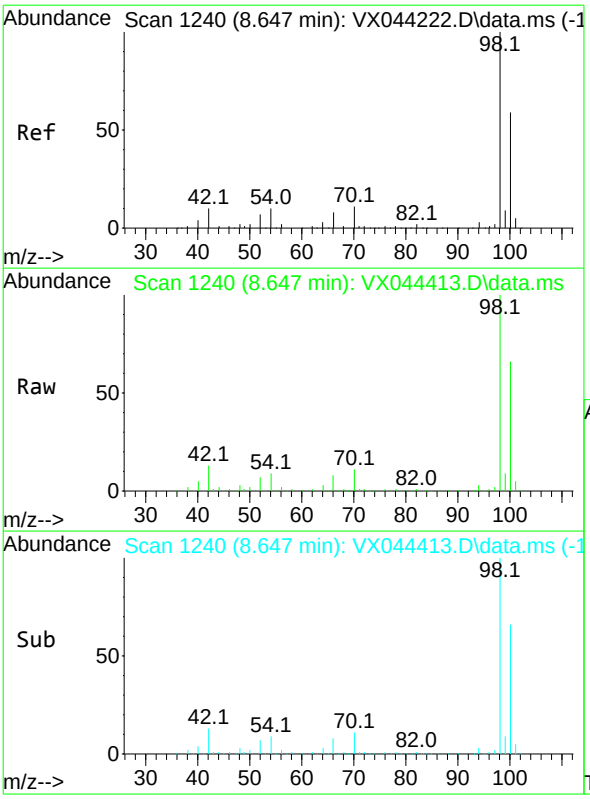


#35
Dibromofluoromethane
Concen: 48.026 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX044413.D
Acq: 19 Dec 2024 04:54

Tgt Ion:113 Resp: 62790

Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.4	120.6
192	17.3	13.3	19.9



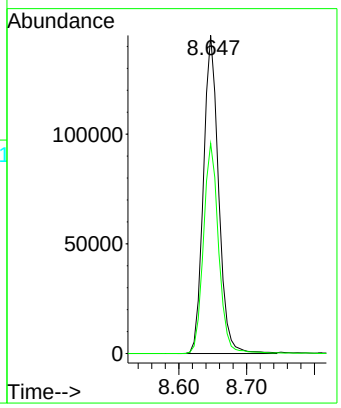


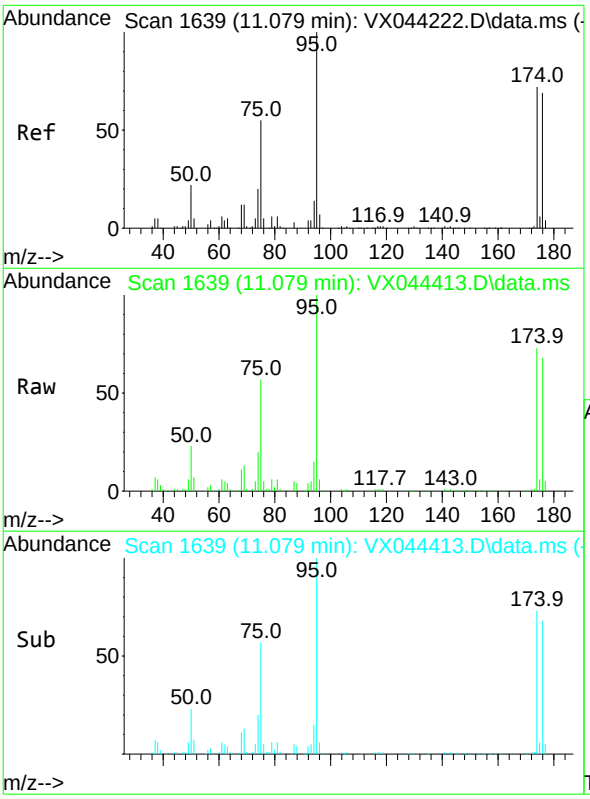
#50
Toluene-d8
Concen: 51.001 ug/l
RT: 8.647 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044413.D
Acq: 19 Dec 2024 04:54

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D2-20241217

Tgt Ion: 98 Resp: 224956

Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.5	77.3

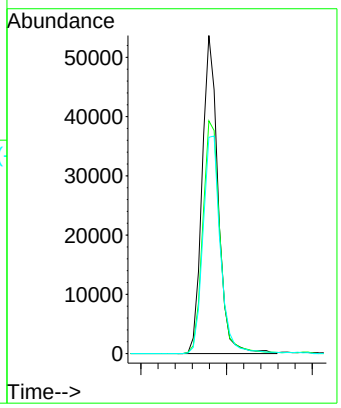


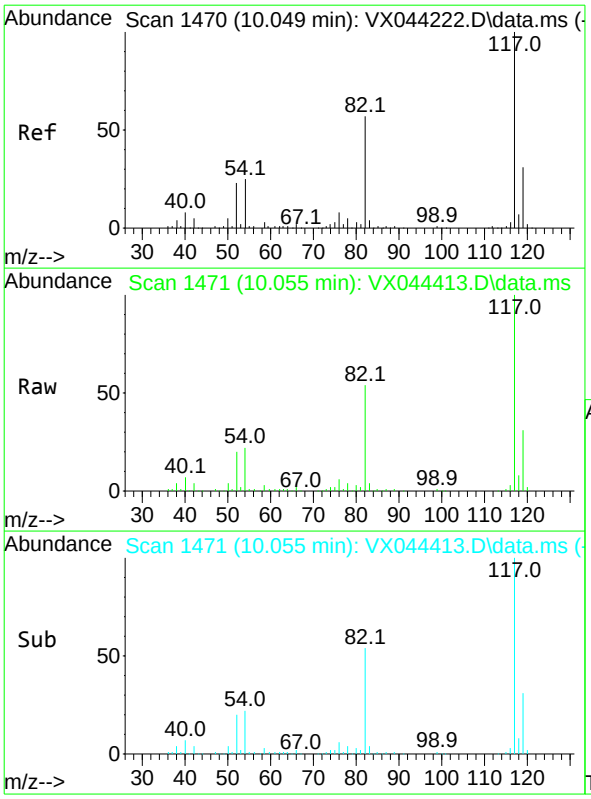


#62
4-Bromofluorobenzene
Concen: 44.991 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044413.D
Acq: 19 Dec 2024 04:54

Tgt Ion: 95 Resp: 69342

Ion	Ratio	Lower	Upper
95	100		
174	78.9	0.0	145.8
176	74.5	0.0	137.8



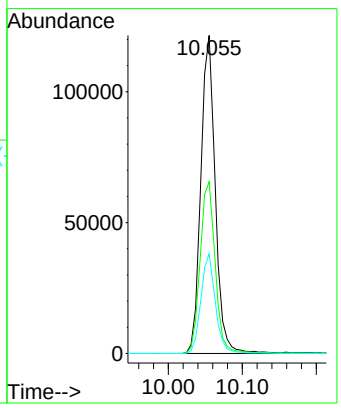


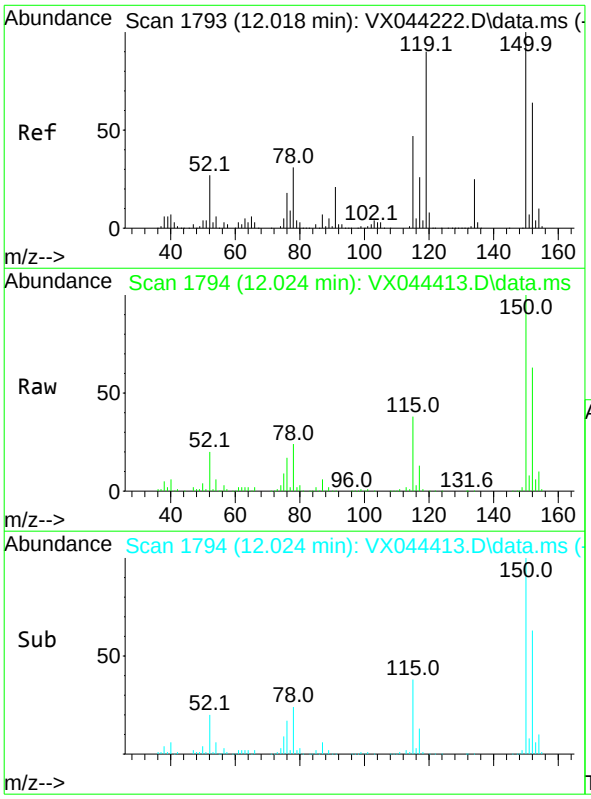
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044413.D
Acq: 19 Dec 2024 04:54

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D2-20241217

Tgt Ion:117 Resp: 164946

Ion	Ratio	Lower	Upper
117	100		
82	54.0	45.8	68.8
119	31.4	25.0	37.4

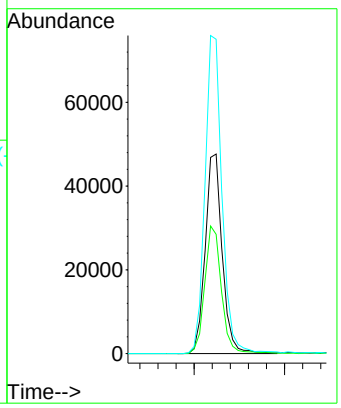




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044413.D
Acq: 19 Dec 2024 04:54

Tgt Ion:152 Resp: 62374

Ion	Ratio	Lower	Upper
152	100		
115	62.7	44.5	133.3
150	159.2	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW9-MW01D3-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-16	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044414.D	1		12/19/24 05:17	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW9-MW01D3-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-16	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044414.D	1		12/19/24 05:17	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.4		81 - 118		91%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	51.6		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.8		85 - 114		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	108000	5.55				
540-36-3	1,4-Difluorobenzene	196000	6.757				
3114-55-4	Chlorobenzene-d5	171000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	67500	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW9-MW01D3-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-16	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044414.D	1		12/19/24 05:17	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044414.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044414.D
Acq On : 19 Dec 2024 05:17
Operator : JC/MD
Sample : P5317-16
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D3-20241217

Quant Time: Dec 19 06:41:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

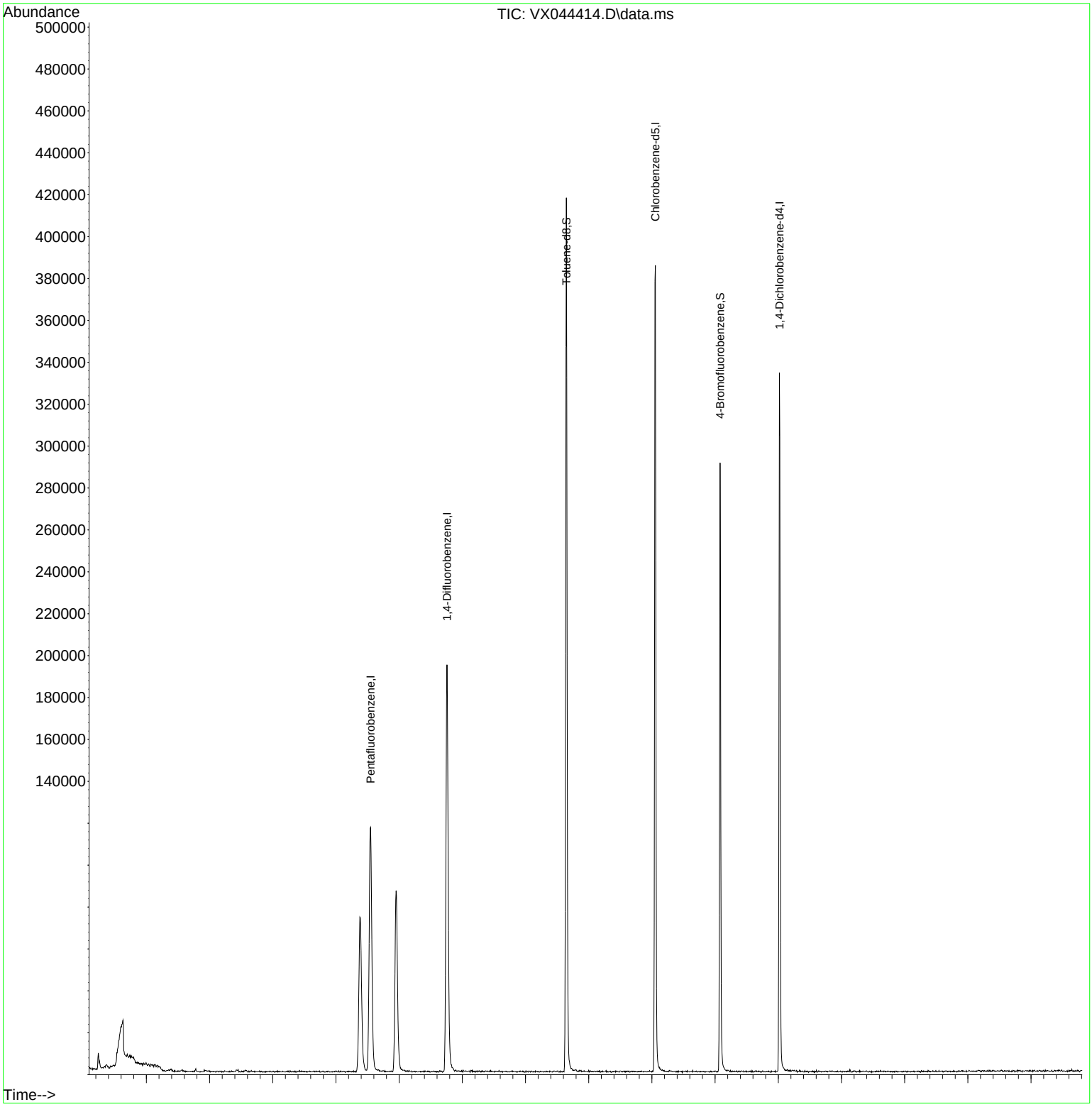
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	107842	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	195942	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	171336	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67520	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	85895	45.427	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 90.860%			
35) Dibromofluoromethane	5.385	113	64519	47.543	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.080%			
50) Toluene-d8	8.647	98	236421	51.638	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.280%			
62) 4-Bromofluorobenzene	11.079	95	71611	44.762	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.520%			
Target Compounds						Qvalue
16) Acetone	2.380	43	826	1.072	ug/l	99
20) Methylene Chloride	2.782	84	433	0.299	ug/l #	76

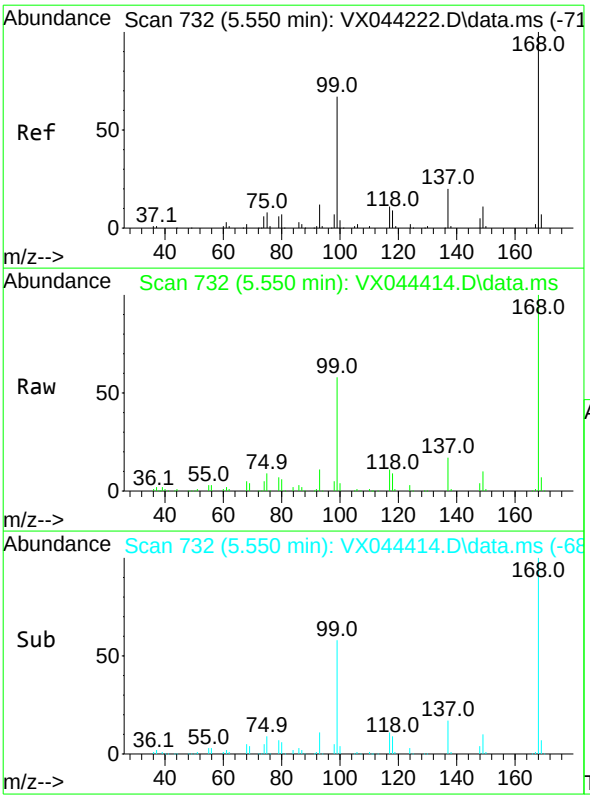
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044414.D
Acq On : 19 Dec 2024 05:17
Operator : JC/MD
Sample : P5317-16
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D3-20241217

Quant Time: Dec 19 06:41:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



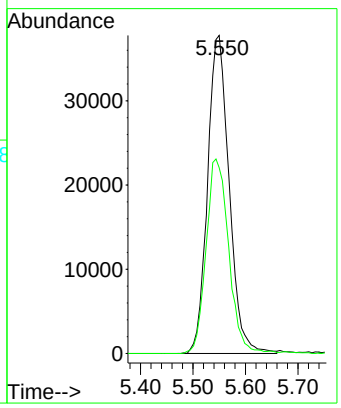


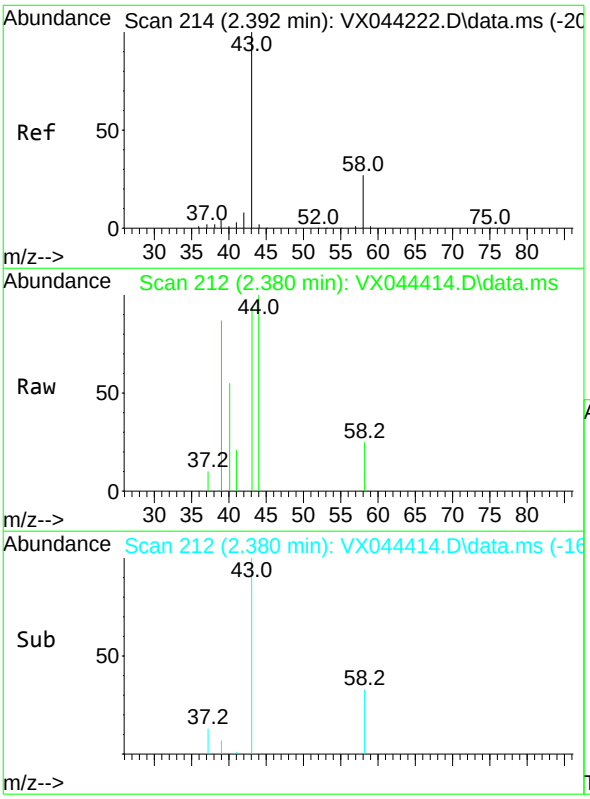
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044414.D
Acq: 19 Dec 2024 05:17

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D3-20241217

Tgt Ion:168 Resp: 107842

Ion	Ratio	Lower	Upper
168	100		
99	58.4	53.4	80.0

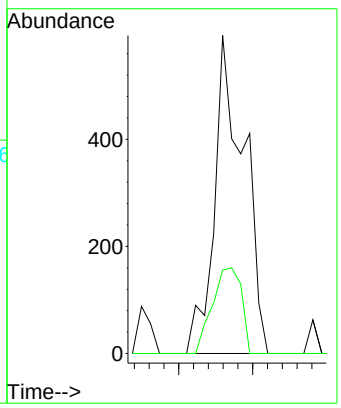


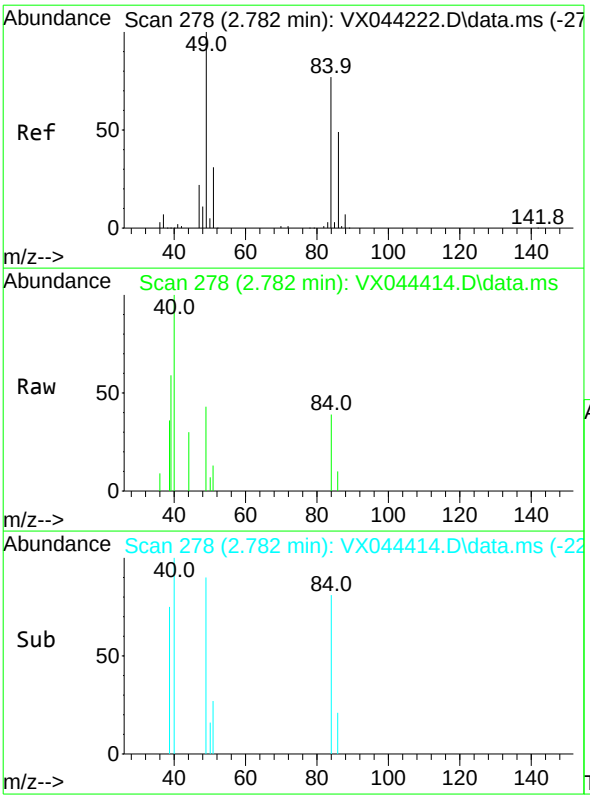


#16
Acetone
Concen: 1.072 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.012 min
Lab File: VX044414.D
Acq: 19 Dec 2024 05:17

Tgt Ion: 43 Resp: 826

Ion	Ratio	Lower	Upper
43	100		
58	26.3	21.6	32.4



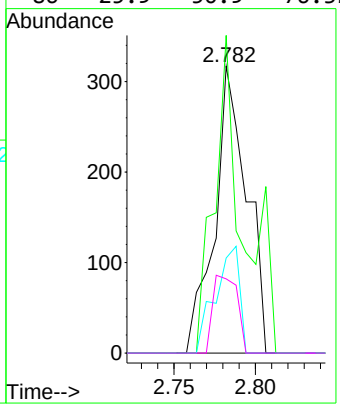


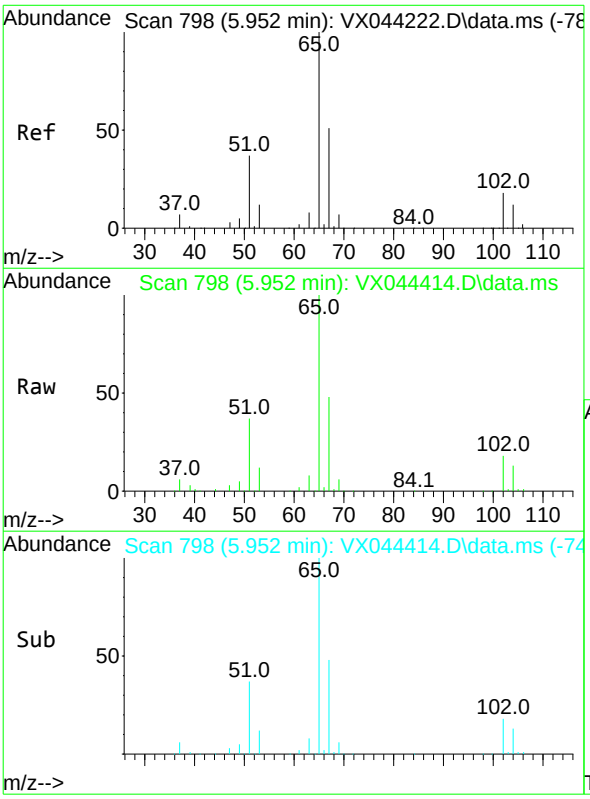
#20
Methylene Chloride
Concen: 0.299 ug/l
RT: 2.782 min Scan# 27
Delta R.T. -0.000 min
Lab File: VX044414.D
Acq: 19 Dec 2024 05:17

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D3-20241217

Tgt Ion: 84 Resp: 433

Ion	Ratio	Lower	Upper
84	100		
49	110.7	104.2	156.4
51	33.1	32.2	48.4
86	25.9	50.9	76.3#

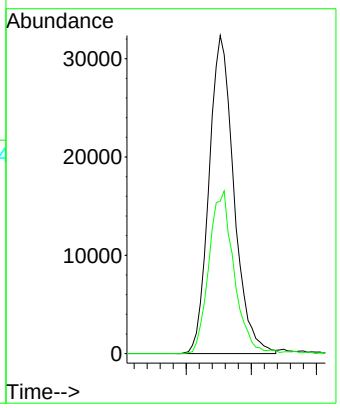


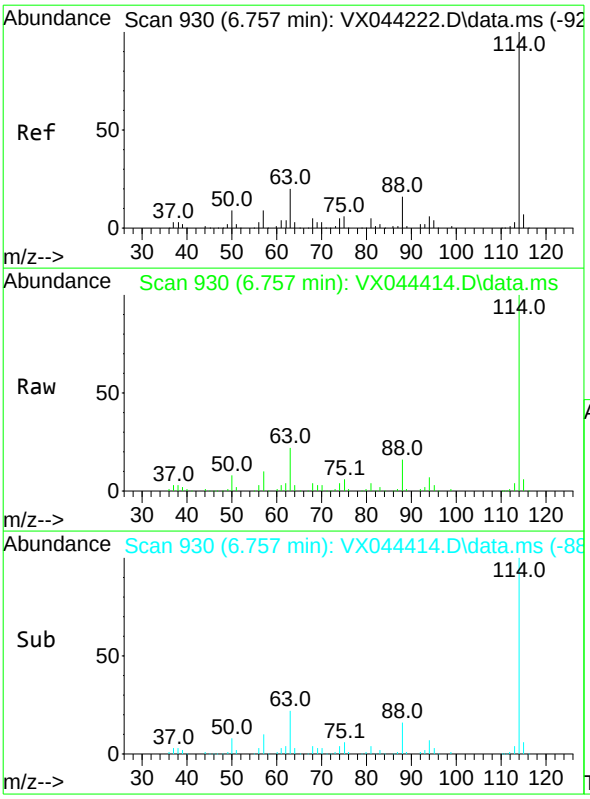


#33
1,2-Dichloroethane-d4
Concen: 45.427 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044414.D
Acq: 19 Dec 2024 05:17

Tgt Ion: 65 Resp: 85895

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	101.6



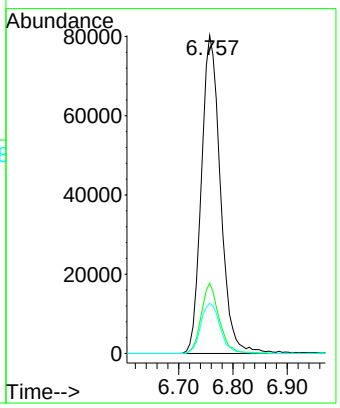


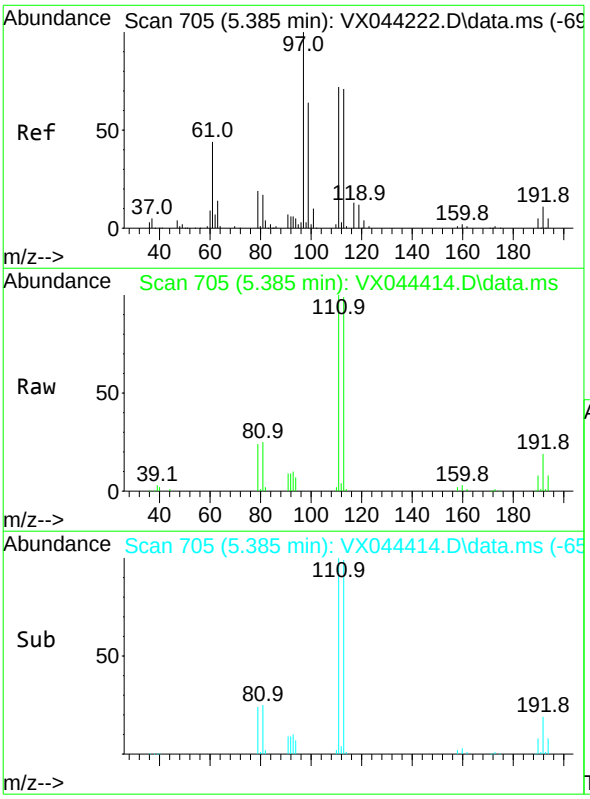
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044414.D
Acq: 19 Dec 2024 05:17

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D3-20241217

Tgt Ion:114 Resp: 195942

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	40.6
88	15.8	0.0	31.8

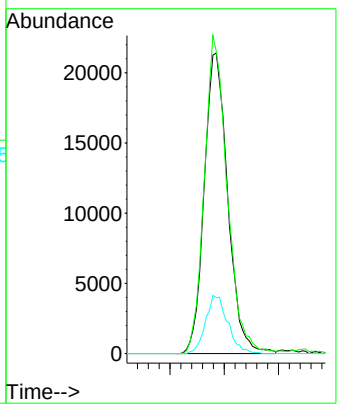


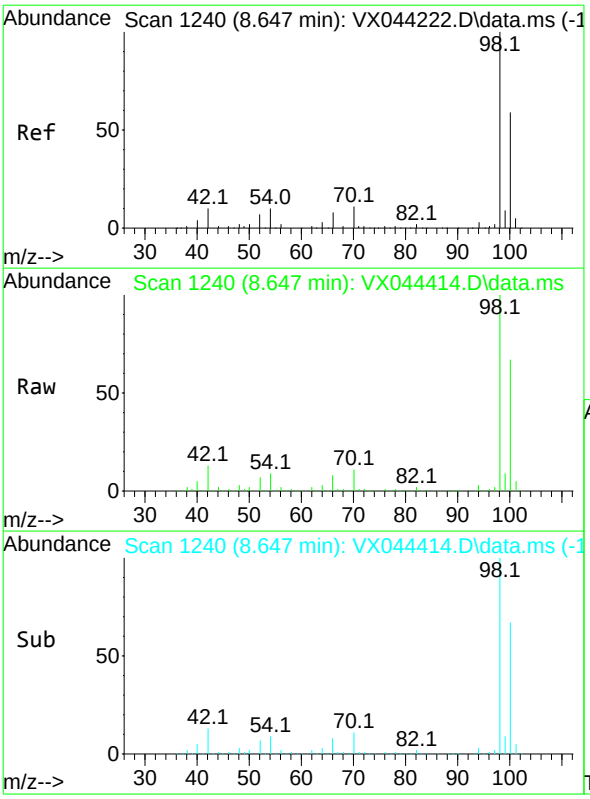


#35
Dibromofluoromethane
Concen: 47.543 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX044414.D
Acq: 19 Dec 2024 05:17

Tgt Ion:113 Resp: 64519

Ion	Ratio	Lower	Upper
113	100		
111	103.4	80.4	120.6
192	18.2	13.3	19.9



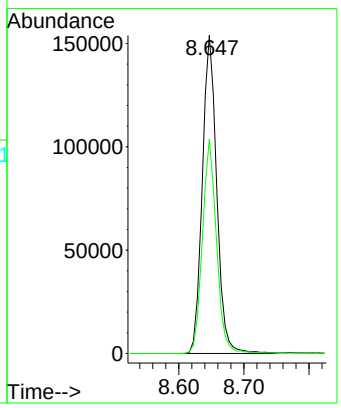


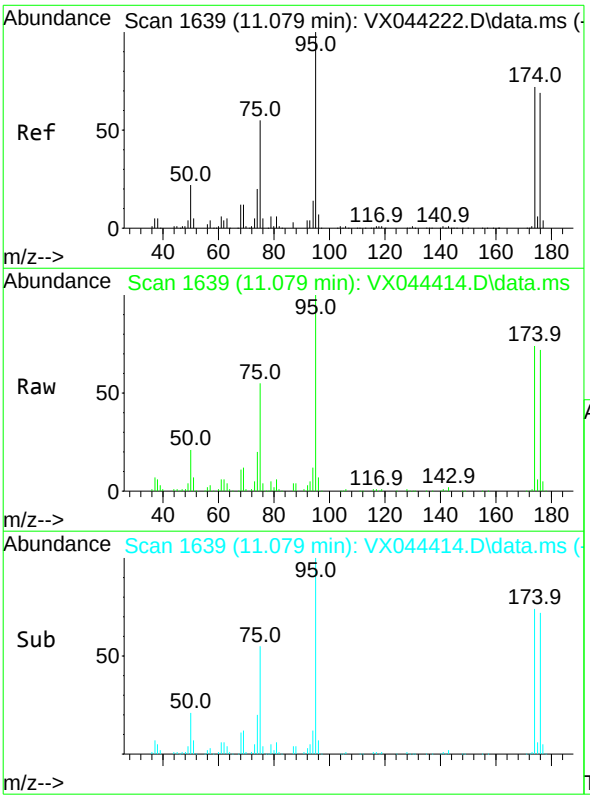
#50
Toluene-d8
Concen: 51.638 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044414.D
Acq: 19 Dec 2024 05:17

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D3-20241217

Tgt Ion: 98 Resp: 236421

Ion	Ratio	Lower	Upper
98	100		
100	65.9	51.5	77.3

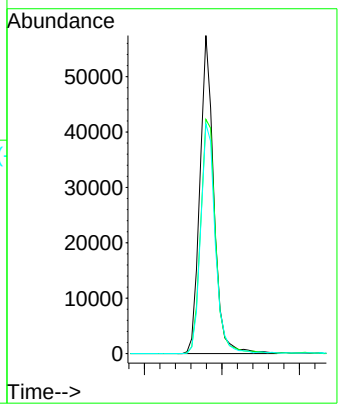


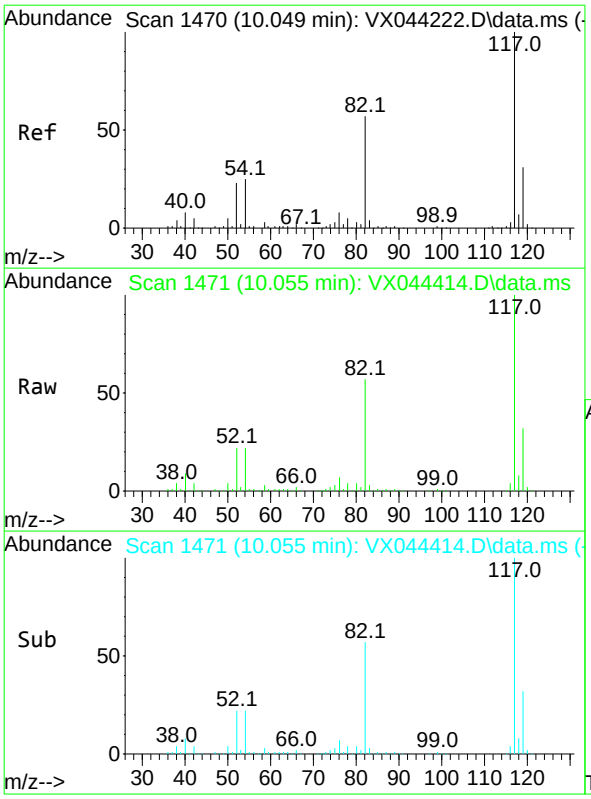


#62
4-Bromofluorobenzene
Concen: 44.762 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044414.D
Acq: 19 Dec 2024 05:17

Tgt Ion: 95 Resp: 71611

Ion	Ratio	Lower	Upper
95	100		
174	79.7	0.0	145.8
176	75.5	0.0	137.8



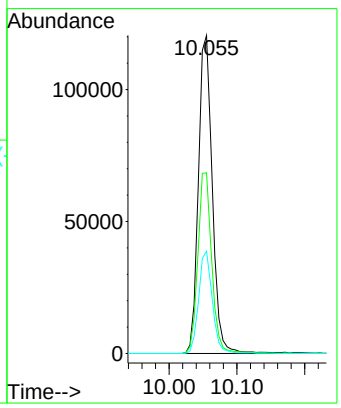


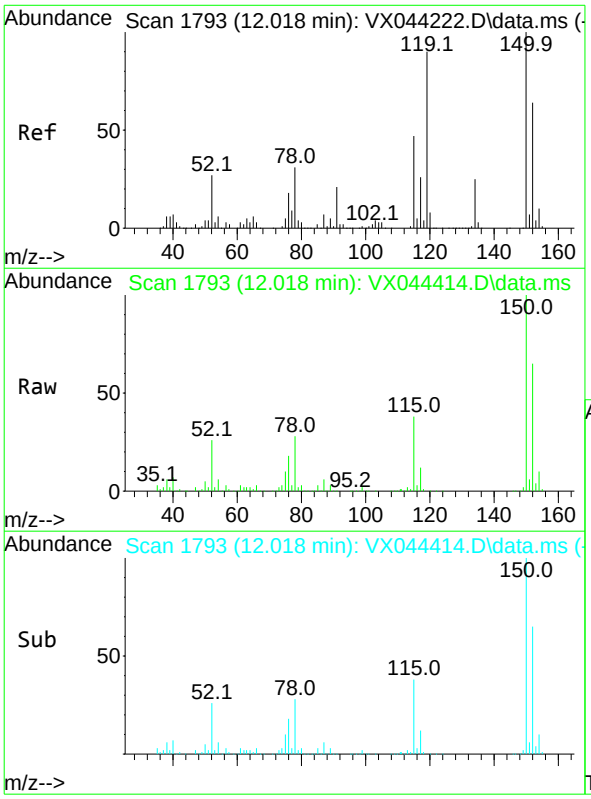
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044414.D
Acq: 19 Dec 2024 05:17

Instrument :
MSVOA_X
ClientSampleId :
RW9-MW01D3-20241217

Tgt Ion:117 Resp: 171336

Ion	Ratio	Lower	Upper
117	100		
82	56.8	45.8	68.8
119	32.2	25.0	37.4

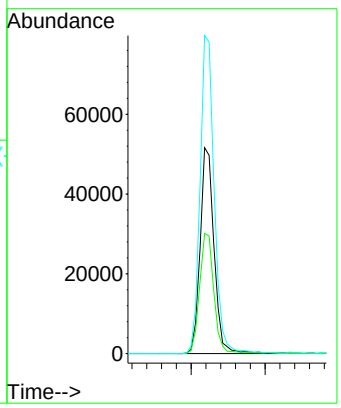




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044414.D
Acq: 19 Dec 2024 05:17

Tgt Ion:152 Resp: 67520

Ion	Ratio	Lower	Upper
152	100		
115	60.2	44.5	133.3
150	157.1	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	DUP-06-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-17	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044489.D	1		12/23/24 18:40	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	UQ	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Raw Data: **VX044489.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	DUP-06-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-17	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044489.D	1		12/23/24 18:40	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	UQ	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.3		81 - 118		89%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	54.4		89 - 112		109%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	129000	5.544				
540-36-3	1,4-Difluorobenzene	227000	6.757				
3114-55-4	Chlorobenzene-d5	197000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	84900	12.018				

Raw Data: **VX044489.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	DUP-06-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-17	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044489.D	1		12/23/24 18:40	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044489.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044489.D
Acq On : 23 Dec 2024 18:40
Operator : JC/MD
Sample : P5317-17
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP-06-20241217

Quant Time: Dec 23 22:15:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	128956	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	226548	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	197304	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	84907	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	100266	44.345	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 88.700%			
35) Dibromofluoromethane	5.379	113	78804	50.224	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.440%			
50) Toluene-d8	8.647	98	287703	54.350	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.700%			
62) 4-Bromofluorobenzene	11.079	95	92913	50.232	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.460%			
Target Compounds						Qvalue
16) Acetone	2.386	43	823	0.893	ug/l	91
29) Tetrahydrofuran	5.032	42	749	0.890	ug/l #	79

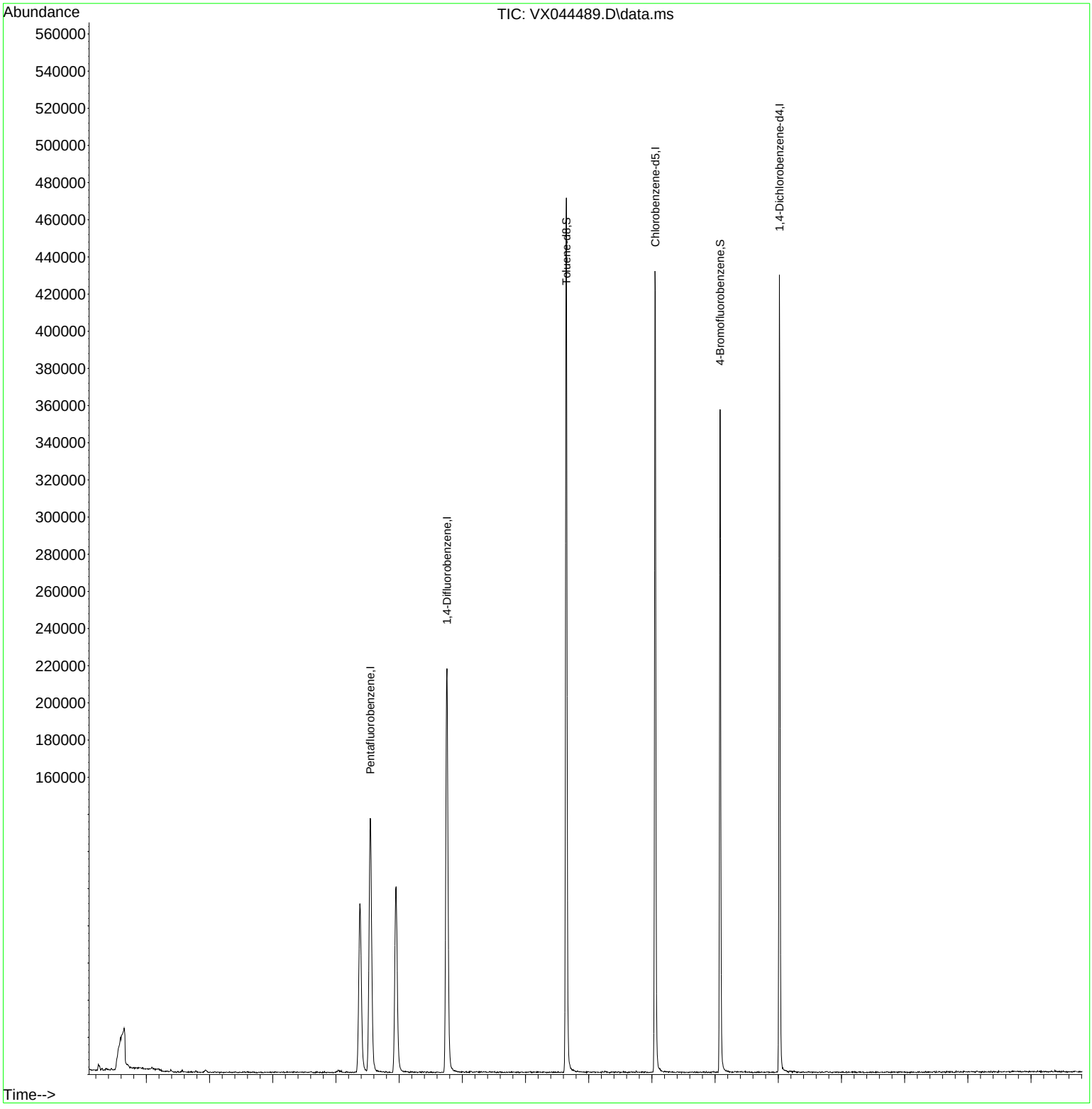
(#) = qualifier out of range (m) = manual integration (+) = signals summed

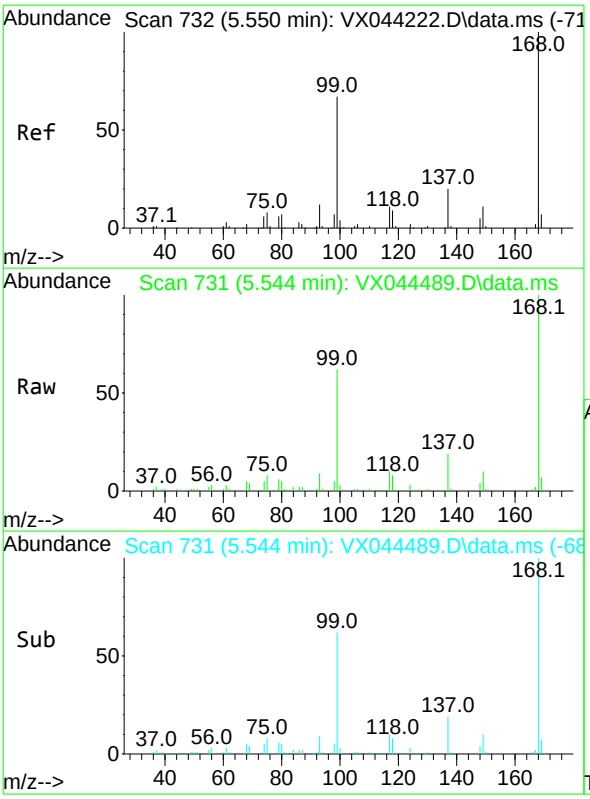
Sample Results: **VX044489.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044489.D
Acq On : 23 Dec 2024 18:40
Operator : JC/MD
Sample : P5317-17
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP-06-20241217

Quant Time: Dec 23 22:15:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



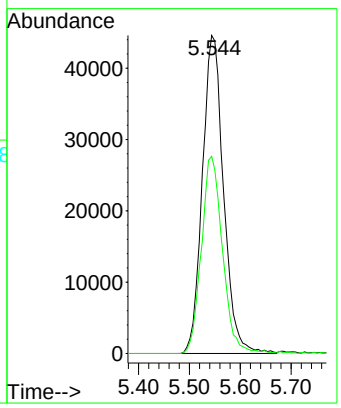


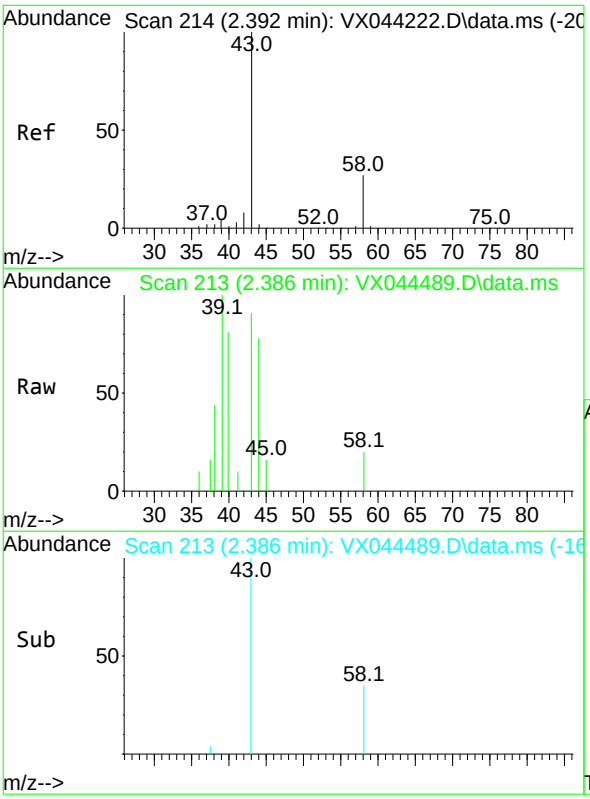
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044489.D
Acq: 23 Dec 2024 18:40

Instrument :
MSVOA_X
ClientSampleId :
DUP-06-20241217

Tgt Ion:168 Resp: 128956

Ion	Ratio	Lower	Upper
168	100		
99	62.0	53.4	80.0

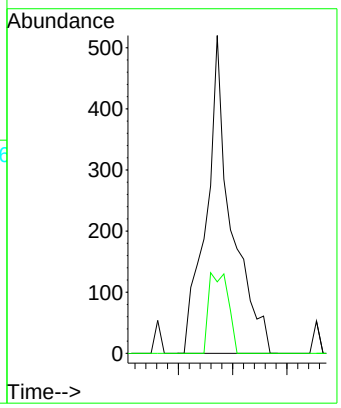


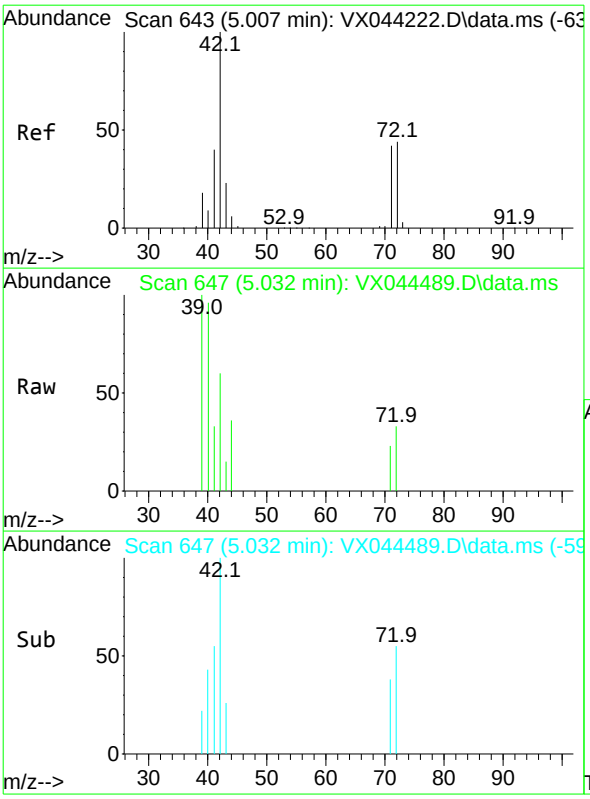


#16
Acetone
Concen: 0.893 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044489.D
Acq: 23 Dec 2024 18:40

Tgt Ion: 43 Resp: 823

Ion	Ratio	Lower	Upper
43	100		
58	22.5	21.6	32.4



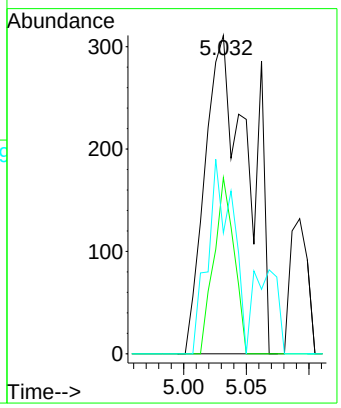


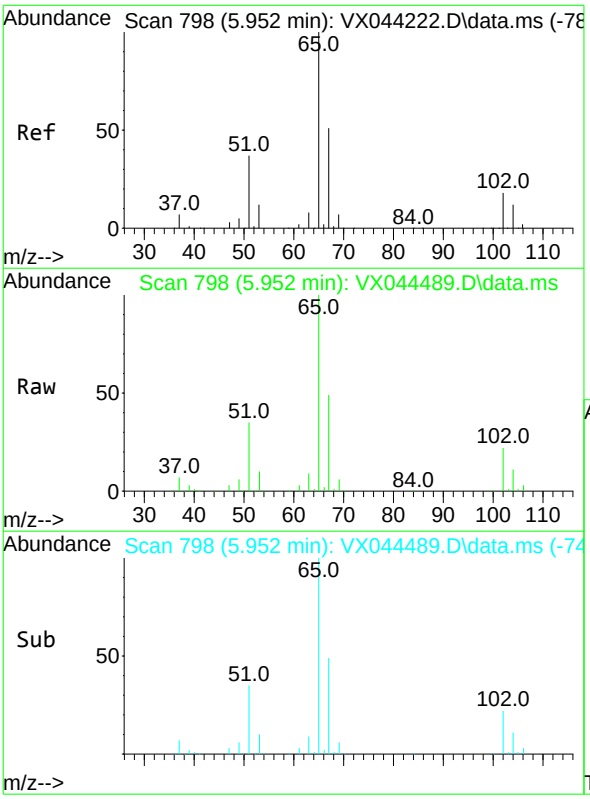
#29
Tetrahydrofuran
Concen: 0.890 ug/l
RT: 5.032 min Scan# 64
Delta R.T. 0.024 min
Lab File: VX044489.D
Acq: 23 Dec 2024 18:40

Instrument :
MSVOA_X
ClientSampleId :
DUP-06-20241217

Tgt Ion: 42 Resp: 749

Ion	Ratio	Lower	Upper
42	100		
72	25.6	37.0	55.6#
71	35.4	33.6	50.4

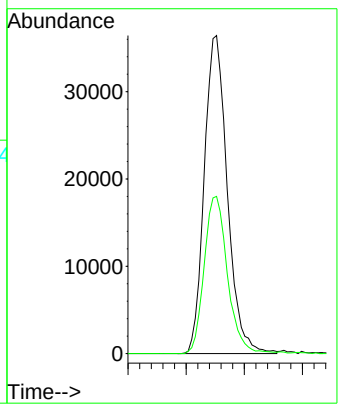


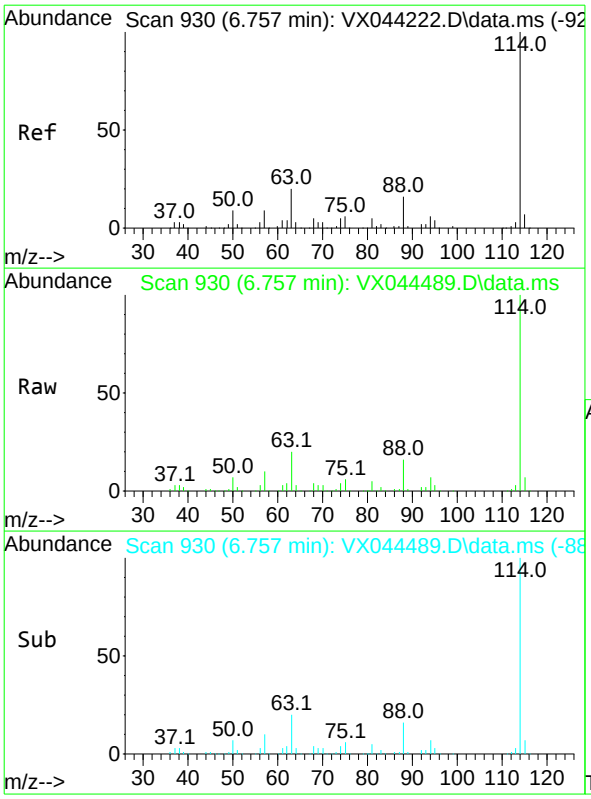


#33
1,2-Dichloroethane-d4
Concen: 44.345 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044489.D
Acq: 23 Dec 2024 18:40

Tgt Ion: 65 Resp: 100266

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	101.6



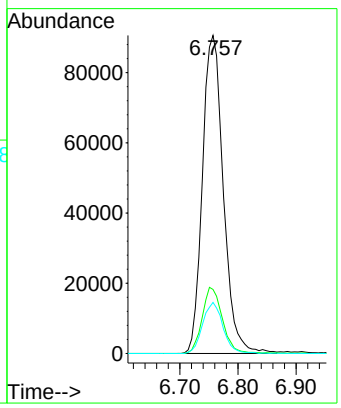


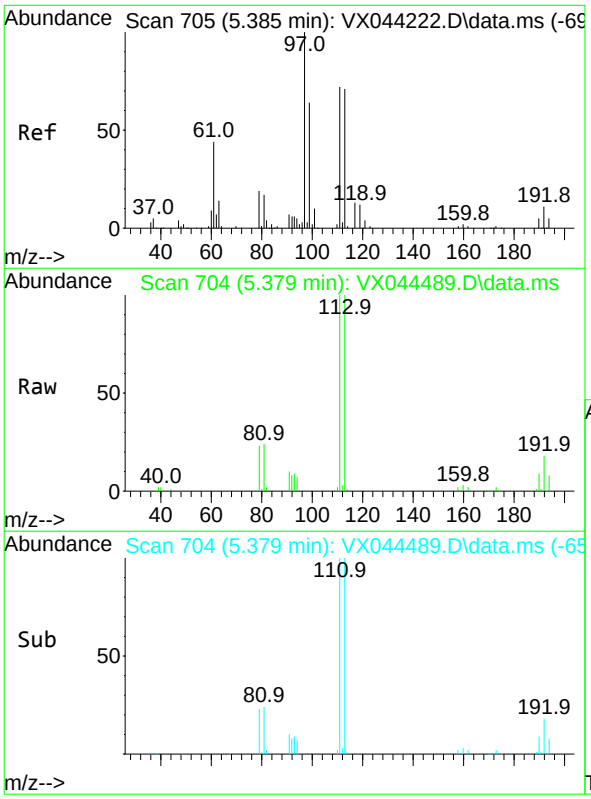
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044489.D
Acq: 23 Dec 2024 18:40

Instrument :
MSVOA_X
ClientSampleId :
DUP-06-20241217

Tgt Ion:114 Resp: 226548

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	40.6
88	16.0	0.0	31.8

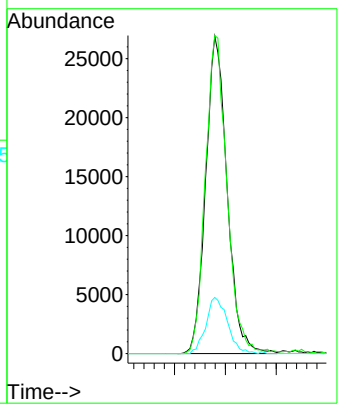


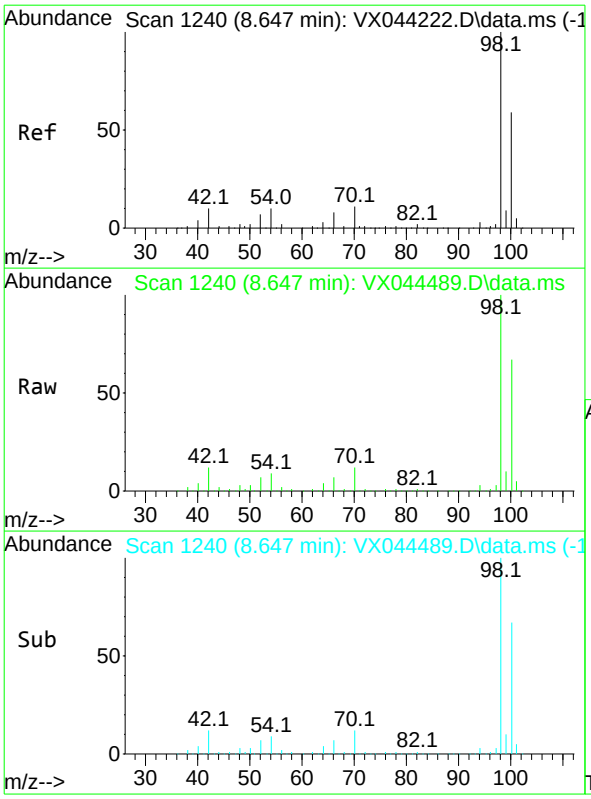


#35
Dibromofluoromethane
Concen: 50.224 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX044489.D
Acq: 23 Dec 2024 18:40

Tgt Ion:113 Resp: 78804

Ion	Ratio	Lower	Upper
113	100		
111	100.8	80.4	120.6
192	17.8	13.3	19.9



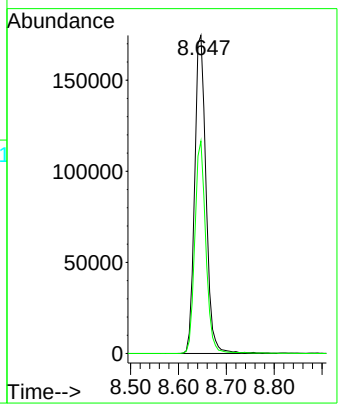


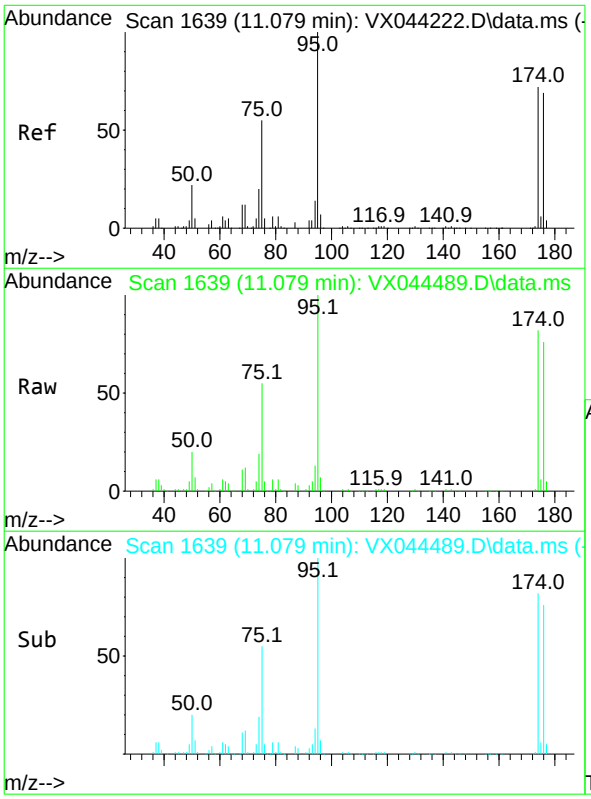
#50
Toluene-d8
Concen: 54.350 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044489.D
Acq: 23 Dec 2024 18:40

Instrument :
MSVOA_X
ClientSampleId :
DUP-06-20241217

Tgt Ion: 98 Resp: 287703

Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.5	77.3

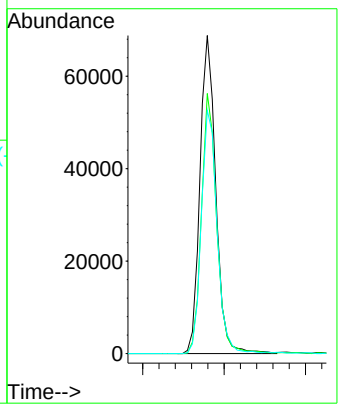


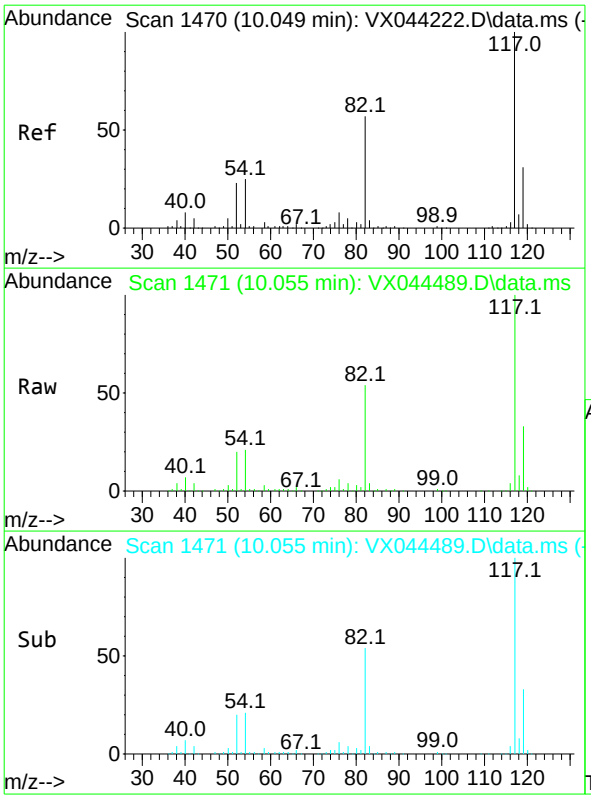


#62
4-Bromofluorobenzene
Concen: 50.232 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044489.D
Acq: 23 Dec 2024 18:40

Tgt Ion: 95 Resp: 92913

Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	145.8
176	75.9	0.0	137.8



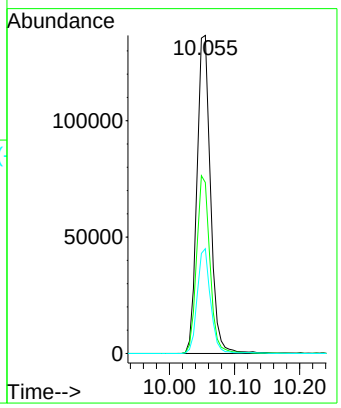


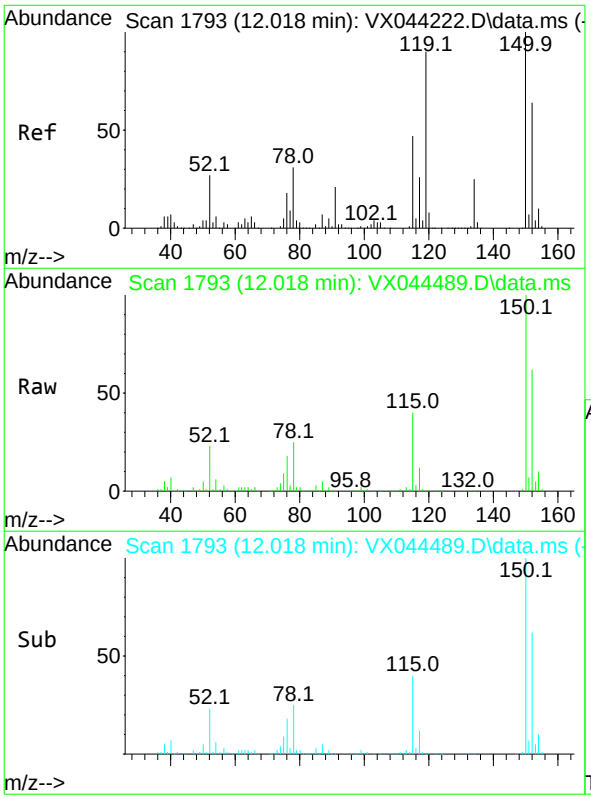
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044489.D
Acq: 23 Dec 2024 18:40

Instrument :
MSVOA_X
ClientSampleId :
DUP-06-20241217

Tgt Ion:117 Resp: 197304

Ion	Ratio	Lower	Upper
117	100		
82	53.8	45.8	68.8
119	33.0	25.0	37.4

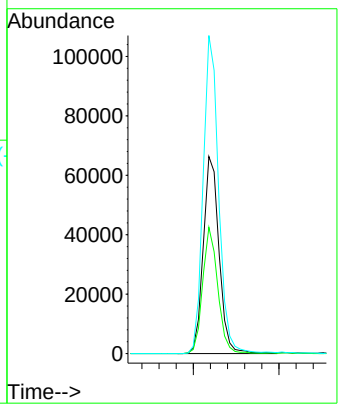




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044489.D
Acq: 23 Dec 2024 18:40

Tgt Ion:152 Resp: 84907

Ion	Ratio	Lower	Upper
152	100		
115	61.3	44.5	133.3
150	158.0	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D5-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-18	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044416.D	1		12/19/24 06:04	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	1.20		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.70	J	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	9.40		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	2.60		0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.40	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.60		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	1.20		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	150	E	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D5-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-18	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044416.D	1		12/19/24 06:04	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	J	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.4		81 - 118		91%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	52.1		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	104000	5.544				
540-36-3	1,4-Difluorobenzene	189000	6.757				
3114-55-4	Chlorobenzene-d5	171000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	71900	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D5-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-18	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044416.D	1		12/19/24 06:04	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044416.D
Acq On : 19 Dec 2024 06:04
Operator : JC/MD
Sample : P5317-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 48 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217

Quant Time: Dec 19 07:13:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	104497	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	189474	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	170677	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	71901	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	83114	45.364	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 90.720%			
35) Dibromofluoromethane	5.385	113	63538	48.418	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.840%			
50) Toluene-d8	8.647	98	230583	52.083	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.160%			
62) 4-Bromofluorobenzene	11.079	95	74919	48.429	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.860%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	1947	1.205	ug/l	97
3) Chloromethane	1.294	50	1079	0.698	ug/l #	86
9) 1,1,2-Trichlorotrifluo...	2.319	101	11944	9.366	ug/l	95
12) 1,1-Dichloroethene	2.306	96	3099	2.646	ug/l #	69
16) Acetone	2.392	43	1052	1.408	ug/l #	43
20) Methylene Chloride	2.794	84	368	0.262	ug/l #	59
27) cis-1,2-Dichloroethene	4.495	96	2460	1.556	ug/l	86
30) Chloroform	5.099	83	3176	1.154	ug/l	96
44) Trichloroethene	7.123	130	196003	152.610	ug/l	95
55) 1,1,2-Trichloroethane	9.153	97	580	0.451	ug/l #	88

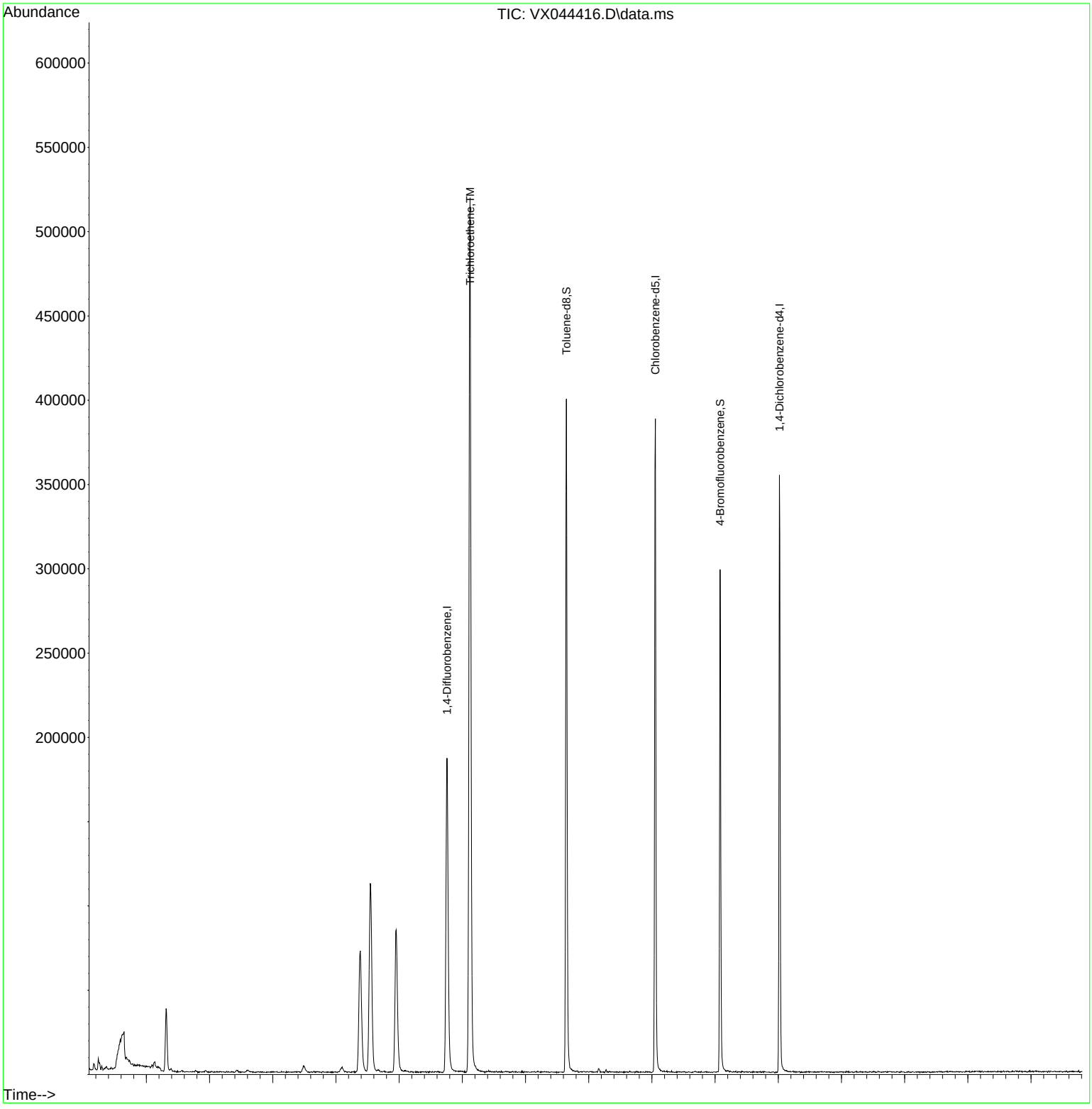
(#) = qualifier out of range (m) = manual integration (+) = signals summed

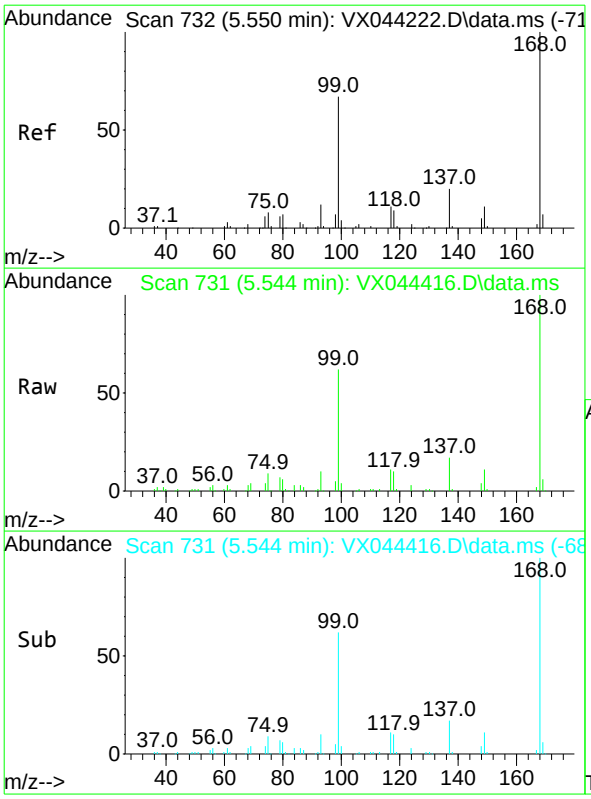
Sample Results: **VX044416.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044416.D
Acq On : 19 Dec 2024 06:04
Operator : JC/MD
Sample : P5317-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 48 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217

Quant Time: Dec 19 07:13:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



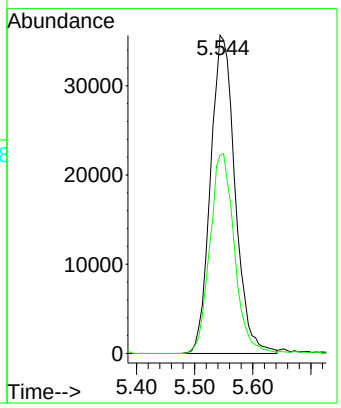


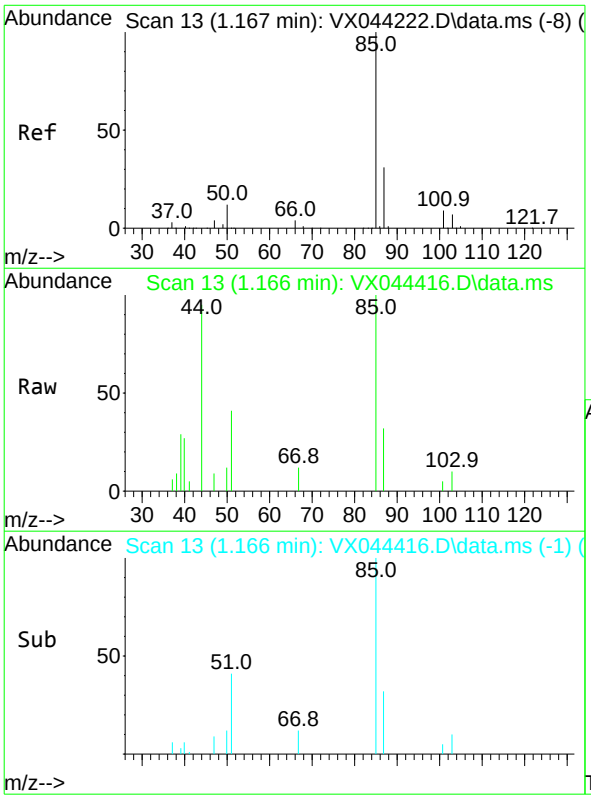
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217

Tgt Ion:168 Resp: 104497

Ion	Ratio	Lower	Upper
168	100		
99	62.3	53.4	80.0

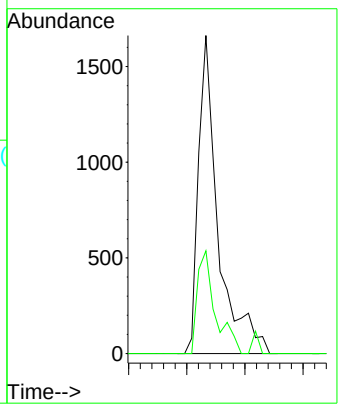


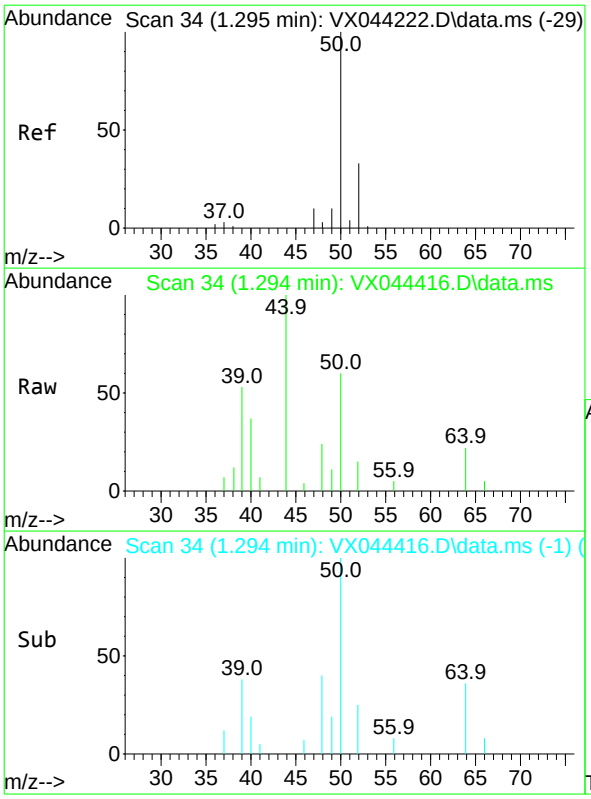


#2
Dichlorodifluoromethane
Concen: 1.205 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Tgt Ion: 85 Resp: 1947

Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.4	46.4



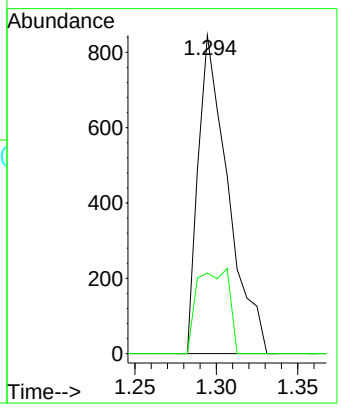


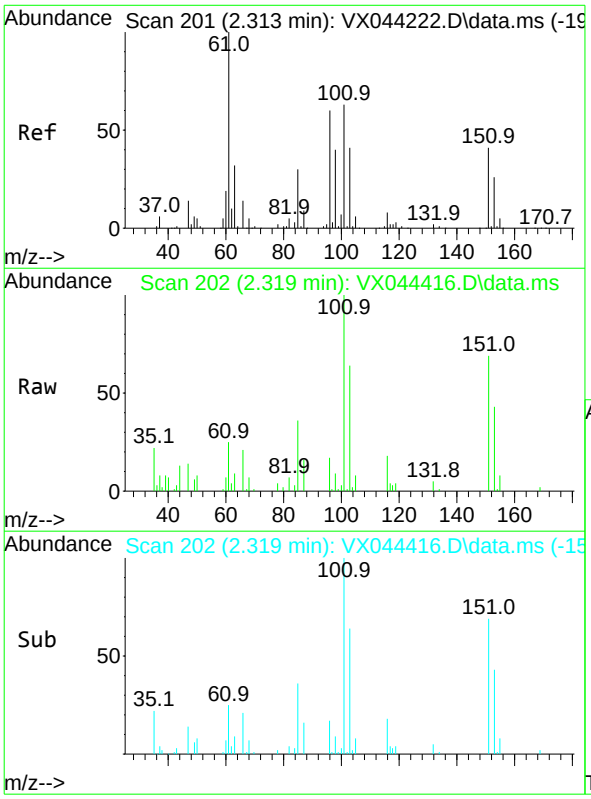
#3
Chloromethane
Concen: 0.698 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217

Tgt Ion: 50 Resp: 1079

Ion	Ratio	Lower	Upper
50	100		
52	25.3	26.5	39.7#

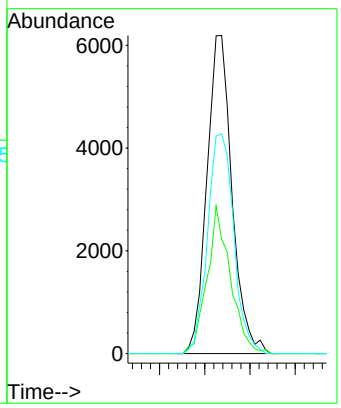


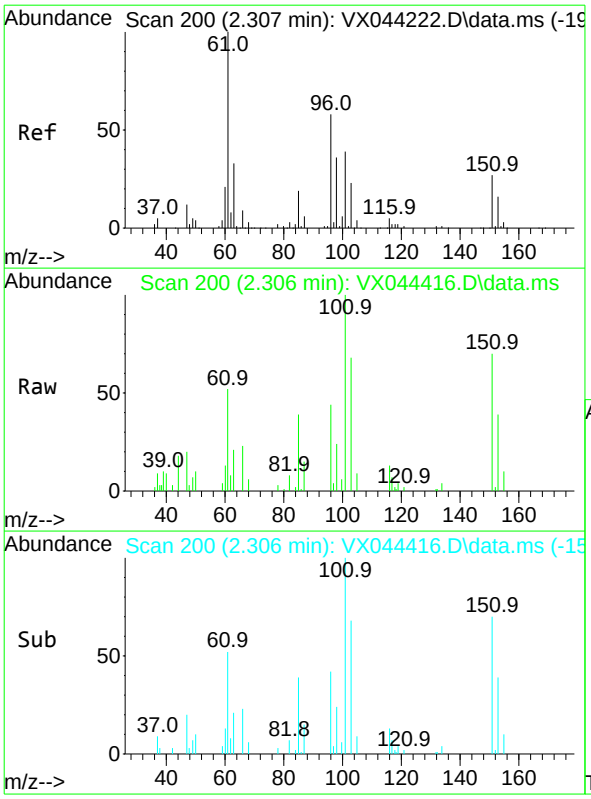


#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.366 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Tgt Ion:101 Resp: 11944

Ion	Ratio	Lower	Upper
101	100		
85	43.2	38.5	57.7
151	72.4	55.8	83.6



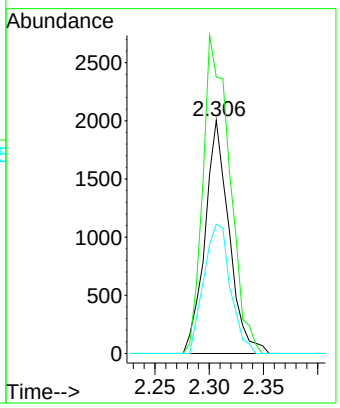


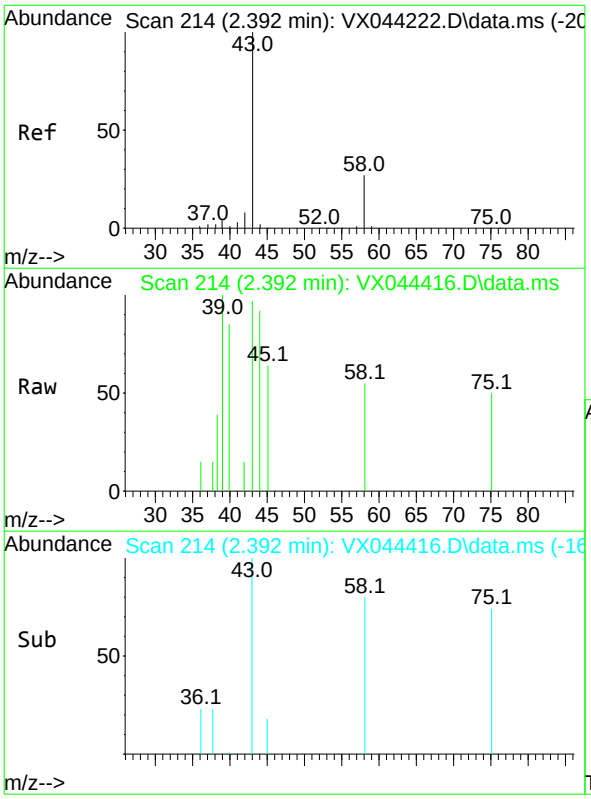
#12
1,1-Dichloroethene
Concen: 2.646 ug/l
RT: 2.306 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217

Tgt Ion: 96 Resp: 3099

Ion	Ratio	Lower	Upper
96	100		
61	118.5	138.0	207.0#
98	55.4	50.0	75.0

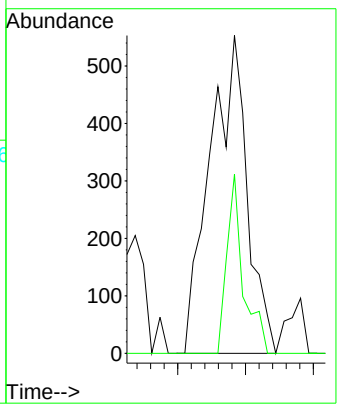


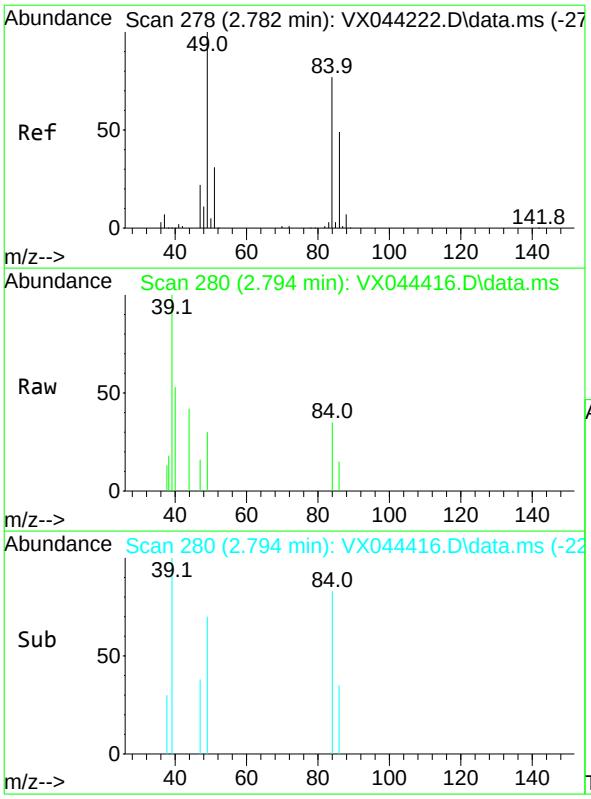


#16
Acetone
Concen: 1.408 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Tgt Ion: 43 Resp: 1052

Ion	Ratio	Lower	Upper
43	100		
58	56.4	21.6	32.4#



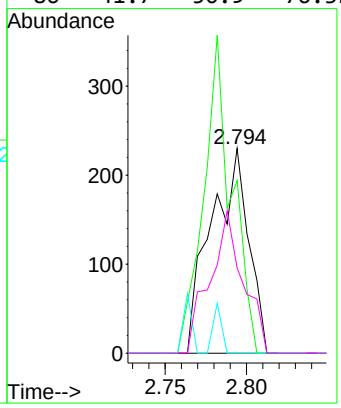


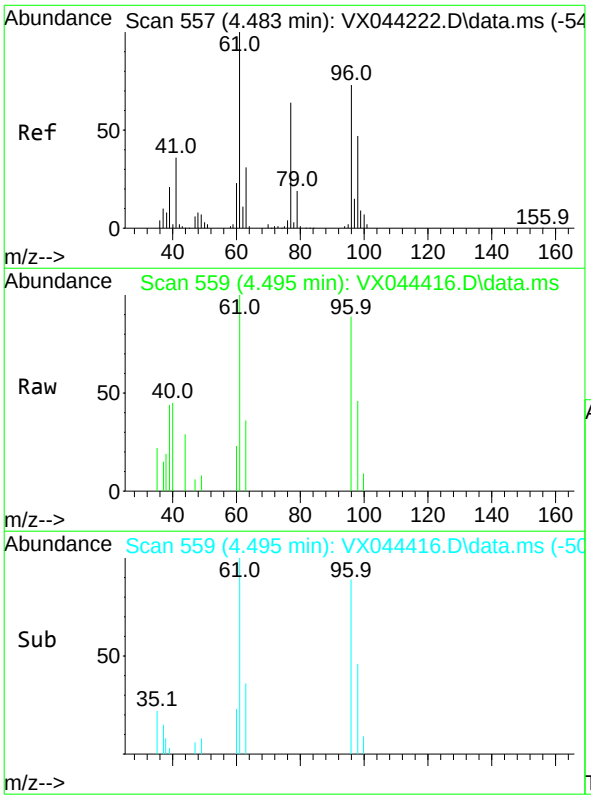
#20
Methylene Chloride
Concen: 0.262 ug/l
RT: 2.794 min Scan# 28
Delta R.T. 0.012 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217

Tgt Ion: 84 Resp: 368

Ion	Ratio	Lower	Upper
84	100		
49	84.3	104.2	156.4#
51	0.0	32.2	48.4#
86	41.7	50.9	76.3#

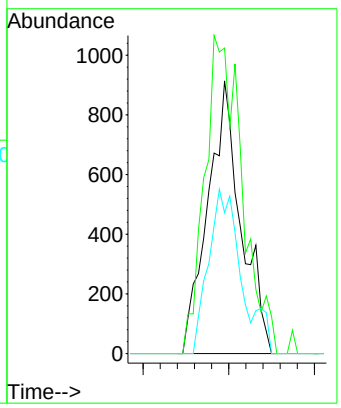


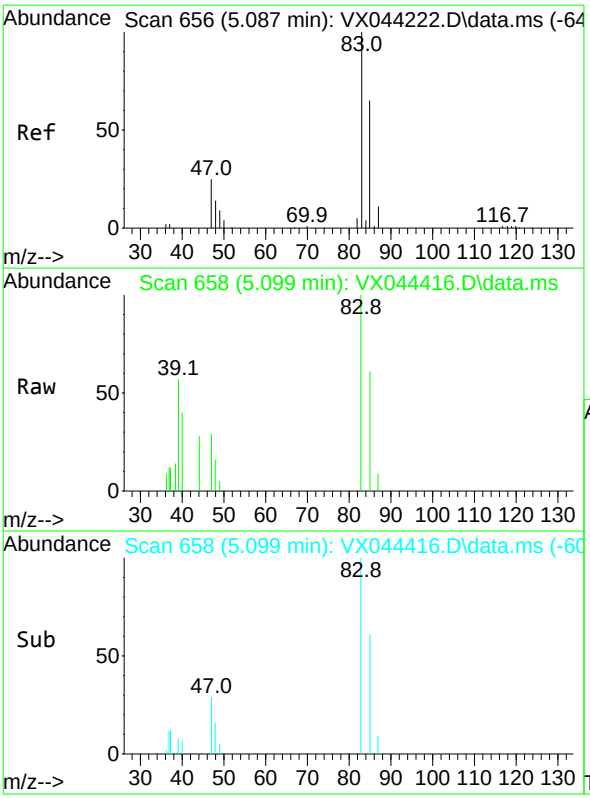


#27
cis-1,2-Dichloroethene
Concen: 1.556 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.012 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Tgt Ion: 96 Resp: 2460

Ion	Ratio	Lower	Upper
96	100		
61	131.2	0.0	299.0
98	53.3	0.0	129.0



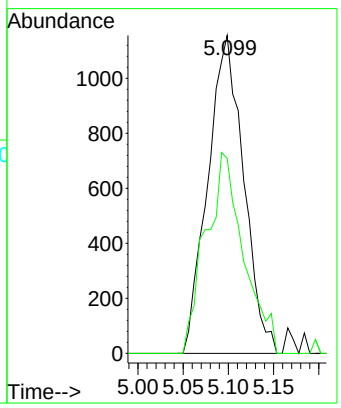


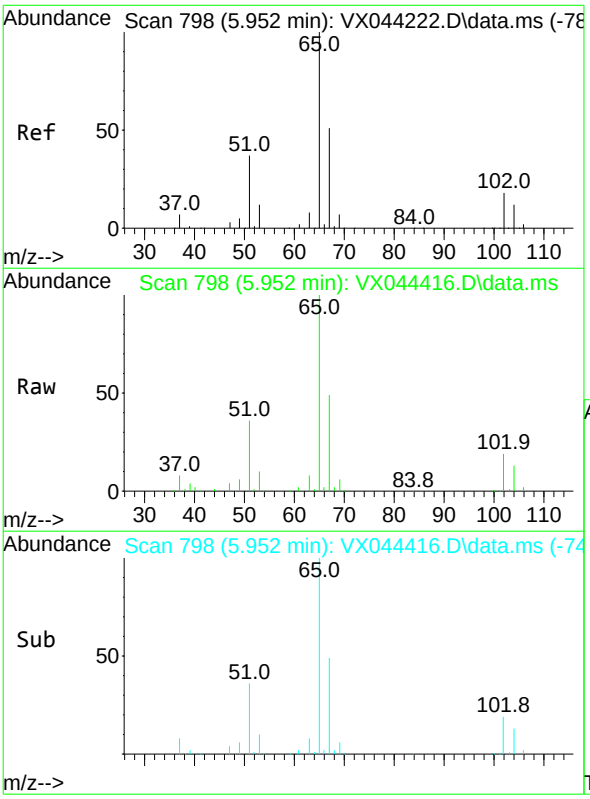
#30
Chloroform
Concen: 1.154 ug/l
RT: 5.099 min Scan# 65
Delta R.T. 0.012 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217

Tgt Ion: 83 Resp: 3176

Ion	Ratio	Lower	Upper
83	100		
85	61.3	51.6	77.4

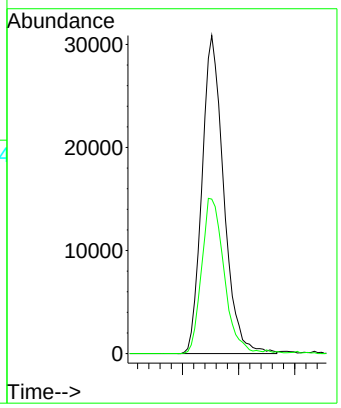


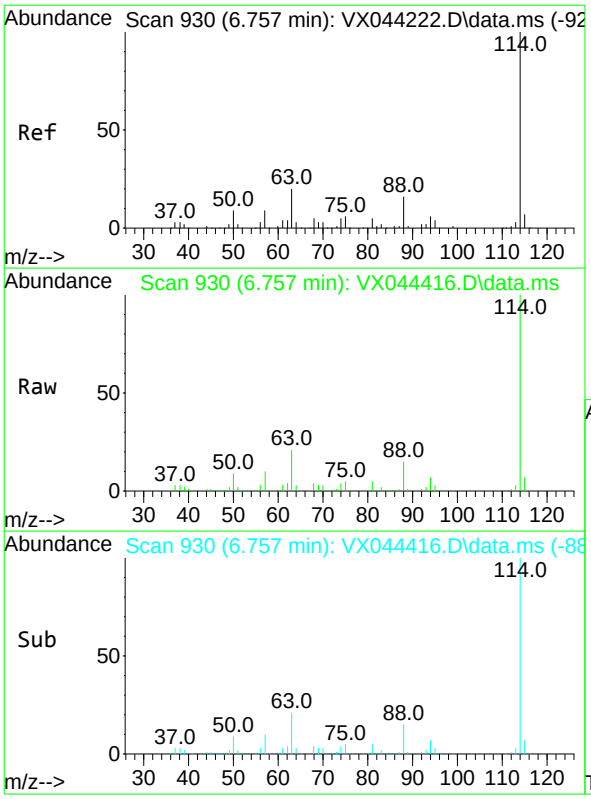


#33
1,2-Dichloroethane-d4
Concen: 45.364 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Tgt Ion: 65 Resp: 83114

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.6



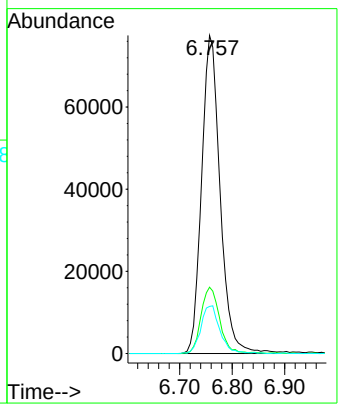


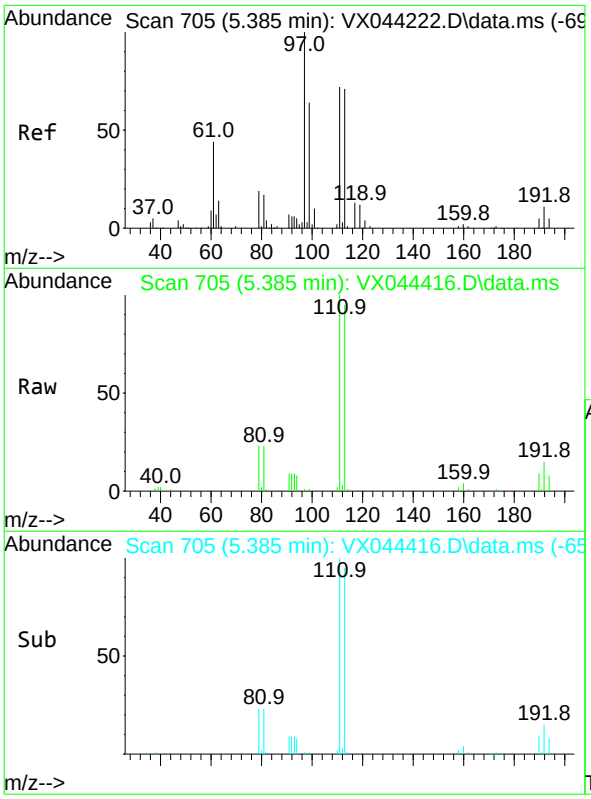
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217

Tgt Ion:114 Resp: 189474

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.6
88	14.8	0.0	31.8

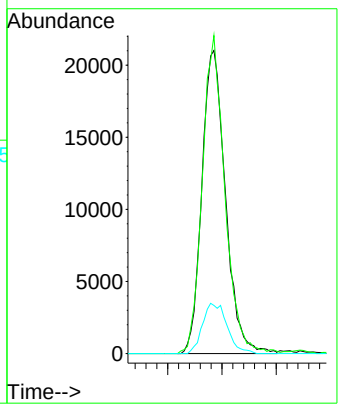


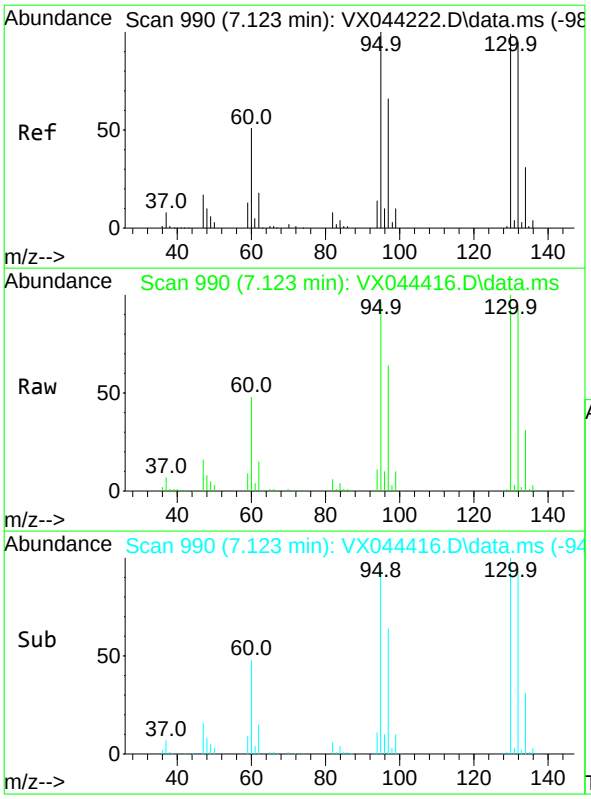


#35
Dibromofluoromethane
Concen: 48.418 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Tgt Ion:113 Resp: 63538

Ion	Ratio	Lower	Upper
113	100		
111	99.9	80.4	120.6
192	17.2	13.3	19.9



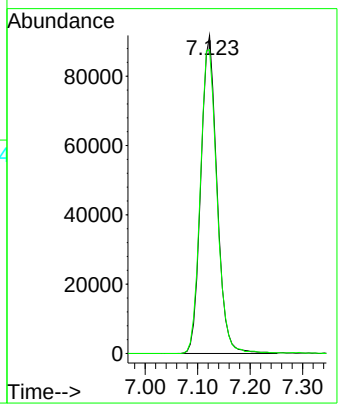


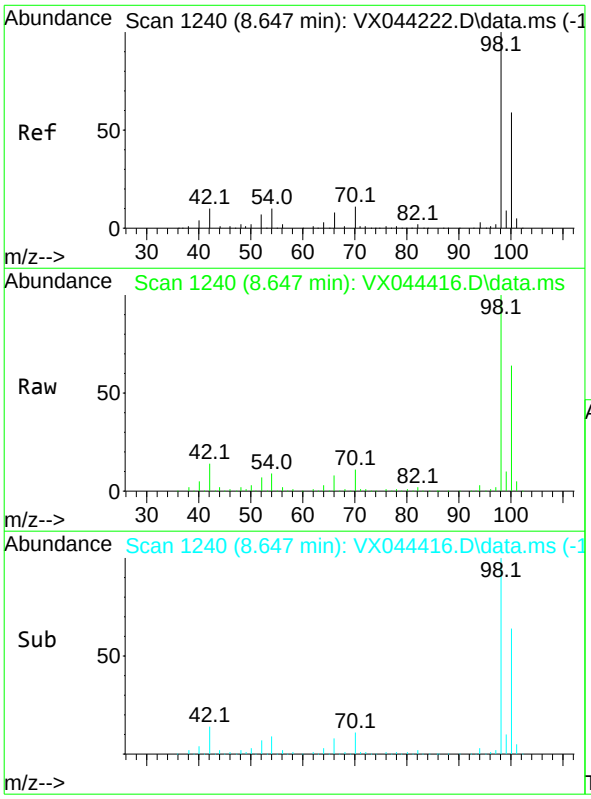
#44
Trichloroethene
Concen: 152.610 ug/l
RT: 7.123 min Scan# 99
Delta R.T. -0.000 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217

Tgt Ion:130 Resp: 196003

Ion	Ratio	Lower	Upper
130	100		
95	95.5	0.0	201.4

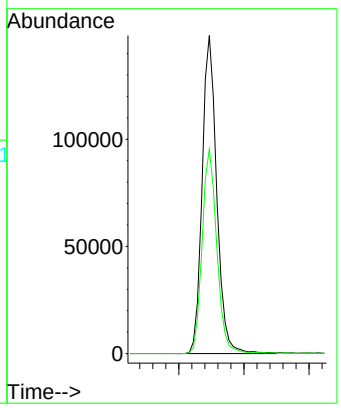


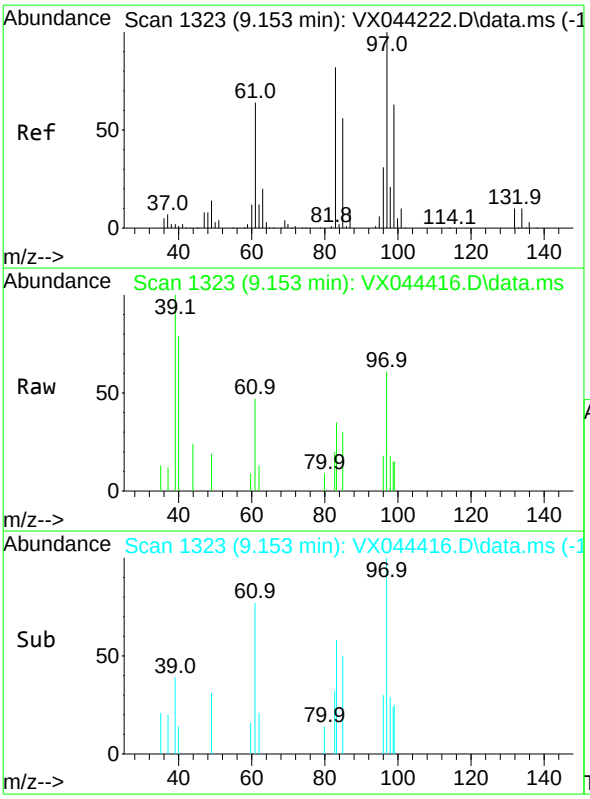


#50
Toluene-d8
Concen: 52.083 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Tgt Ion: 98 Resp: 230583

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.5	77.3



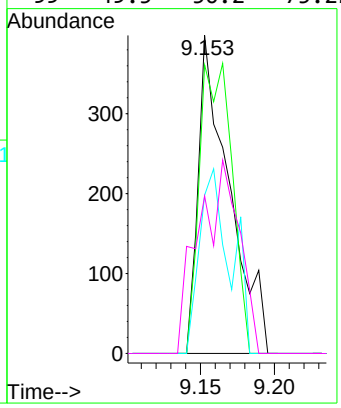


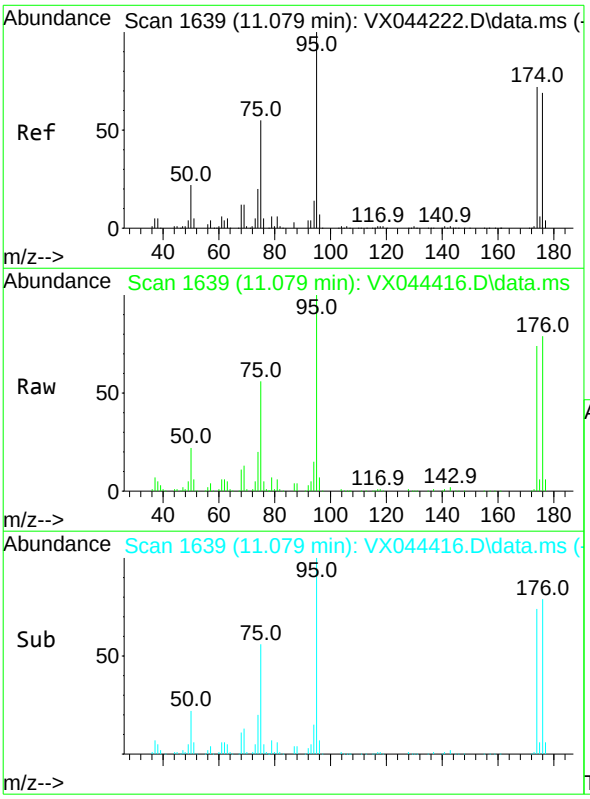
#55
1,1,2-Trichloroethane
Concen: 0.451 ug/l
RT: 9.153 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217

Tgt Ion: 97 Resp: 580

Ion	Ratio	Lower	Upper
97	100		
83	90.7	65.3	97.9
85	49.7	44.6	67.0
99	49.5	50.2	75.2#

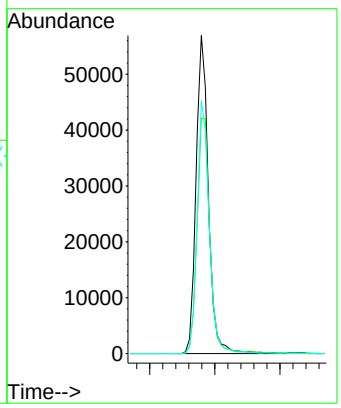


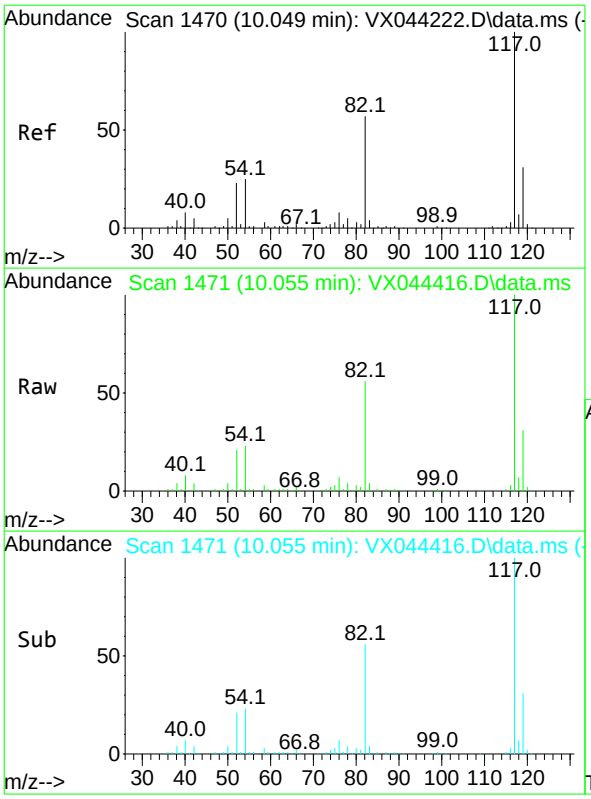


#62
4-Bromofluorobenzene
Concen: 48.429 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Tgt Ion: 95 Resp: 74919

Ion	Ratio	Lower	Upper
95	100		
174	76.9	0.0	145.8
176	77.7	0.0	137.8



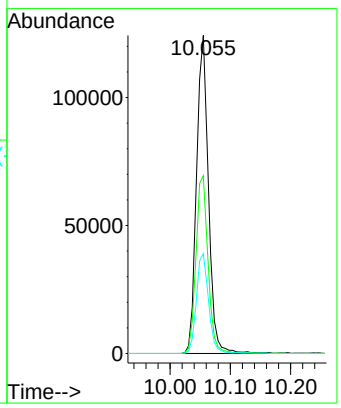


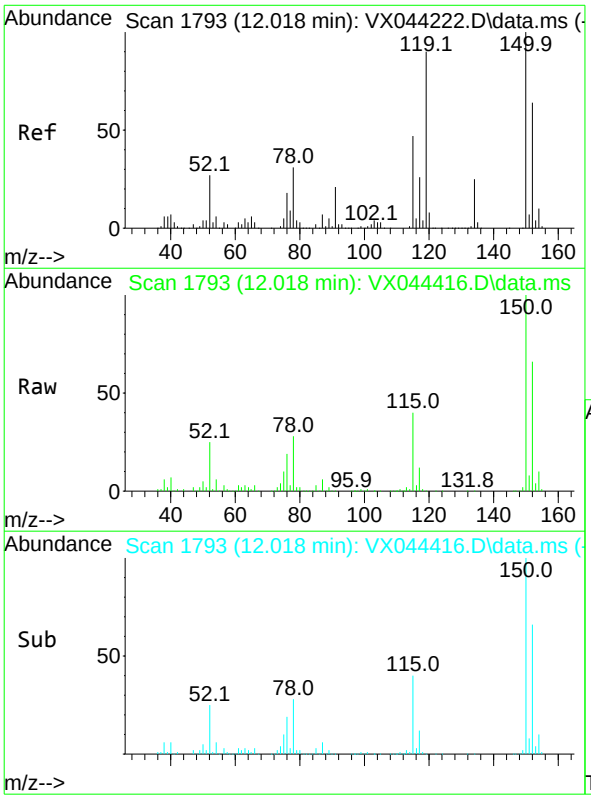
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217

Tgt Ion:117 Resp: 170677

Ion	Ratio	Lower	Upper
117	100		
82	55.9	45.8	68.8
119	31.4	25.0	37.4

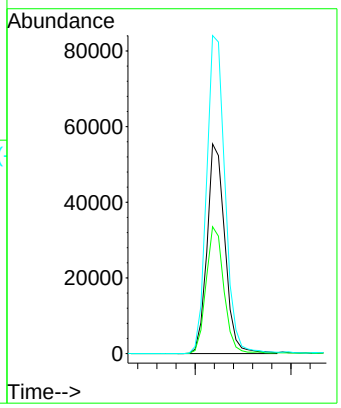




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044416.D
Acq: 19 Dec 2024 06:04

Tgt Ion:152 Resp: 71901

Ion	Ratio	Lower	Upper
152	100		
115	60.2	44.5	133.3
150	157.2	0.0	353.8



Raw Data: **VX044485.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D6-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-21	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044485.D	40		12/23/24 17:09	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	20.0	U	8.40	20.0	40.0	ug/L
74-87-3	Chloromethane	20.0	U	14.0	20.0	40.0	ug/L
75-01-4	Vinyl Chloride	30.0	U	13.6	30.0	40.0	ug/L
74-83-9	Bromomethane	150	U	54.4	150	200	ug/L
75-00-3	Chloroethane	30.0	U	22.4	30.0	40.0	ug/L
75-69-4	Trichlorofluoromethane	20.0	U	13.6	20.0	40.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	26.6	J	10.0	20.0	40.0	ug/L
75-35-4	1,1-Dichloroethene	15.5	J	10.4	30.0	40.0	ug/L
67-64-1	Acetone	150	U	55.6	150	200	ug/L
75-15-0	Carbon Disulfide	16.8	J	12.8	30.0	40.0	ug/L
1634-04-4	Methyl tert-butyl Ether	20.0	U	6.40	20.0	40.0	ug/L
79-20-9	Methyl Acetate	30.0	U	24.0	30.0	40.0	ug/L
75-09-2	Methylene Chloride	20.0	U	12.8	20.0	40.0	ug/L
156-60-5	trans-1,2-Dichloroethene	20.0	U	10.0	20.0	40.0	ug/L
75-34-3	1,1-Dichloroethane	20.0	U	9.20	20.0	40.0	ug/L
110-82-7	Cyclohexane	100	U	64.8	100	200	ug/L
78-93-3	2-Butanone	100	U	52.0	100	200	ug/L
56-23-5	Carbon Tetrachloride	20.0	U	10.0	20.0	40.0	ug/L
156-59-2	cis-1,2-Dichloroethene	30.0	U	10.0	30.0	40.0	ug/L
74-97-5	Bromochloromethane	20.0	UQ	7.20	20.0	40.0	ug/L
67-66-3	Chloroform	20.0	U	10.4	20.0	40.0	ug/L
71-55-6	1,1,1-Trichloroethane	20.0	U	7.60	20.0	40.0	ug/L
108-87-2	Methylcyclohexane	20.0	U	7.60	20.0	40.0	ug/L
71-43-2	Benzene	20.0	U	6.40	20.0	40.0	ug/L
107-06-2	1,2-Dichloroethane	20.0	U	9.60	20.0	40.0	ug/L
79-01-6	Trichloroethene	1600		12.8	30.0	40.0	ug/L
78-87-5	1,2-Dichloropropane	20.0	U	7.60	20.0	40.0	ug/L
75-27-4	Bromodichloromethane	20.0	U	9.60	20.0	40.0	ug/L
108-10-1	4-Methyl-2-Pentanone	100	U	30.0	100	200	ug/L
108-88-3	Toluene	20.0	U	7.20	20.0	40.0	ug/L

Raw Data: **VX044485.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D6-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-21	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044485.D	40		12/23/24 17:09	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.0	U	8.40	20.0	40.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0	U	7.20	20.0	40.0	ug/L
79-00-5	1,1,2-Trichloroethane	20.0	U	8.40	20.0	40.0	ug/L
591-78-6	2-Hexanone	100	U	45.2	100	200	ug/L
124-48-1	Dibromochloromethane	20.0	U	7.20	20.0	40.0	ug/L
106-93-4	1,2-Dibromoethane	20.0	U	6.40	20.0	40.0	ug/L
127-18-4	Tetrachloroethene	11.6	JQ	10.0	20.0	40.0	ug/L
108-90-7	Chlorobenzene	20.0	U	5.20	20.0	40.0	ug/L
100-41-4	Ethyl Benzene	20.0	U	6.40	20.0	40.0	ug/L
179601-23-1	m/p-Xylenes	40.0	U	12.4	40.0	80.0	ug/L
95-47-6	o-Xylene	20.0	U	5.60	20.0	40.0	ug/L
100-42-5	Styrene	20.0	U	6.40	20.0	40.0	ug/L
75-25-2	Bromoform	20.0	U	8.40	20.0	40.0	ug/L
98-82-8	Isopropylbenzene	20.0	U	5.20	20.0	40.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.0	U	10.8	20.0	40.0	ug/L
541-73-1	1,3-Dichlorobenzene	20.0	U	9.60	20.0	40.0	ug/L
106-46-7	1,4-Dichlorobenzene	13.2	J	10.8	20.0	40.0	ug/L
95-50-1	1,2-Dichlorobenzene	20.0	U	7.60	20.0	40.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	30.0	U	18.4	30.0	40.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.0	U	16.8	20.0	40.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	30.0	U	20.4	30.0	40.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	41.4		81 - 118		83%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	53.3		89 - 112		107%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	144000	5.544				
540-36-3	1,4-Difluorobenzene	249000	6.757				
3114-55-4	Chlorobenzene-d5	221000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	102000	12.018				

Raw Data: **VX044485.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D6-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-21	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044485.D	40		12/23/24 17:09	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044485.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044485.D
Acq On : 23 Dec 2024 17:09
Operator : JC/MD
Sample : P5317-21 40X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 23 22:13:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	144075	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	249365	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	221444	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	102248	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	104514	41.374	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 82.740%			
35) Dibromofluoromethane	5.385	113	82534	47.788	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.580%			
50) Toluene-d8	8.647	98	310298	53.255	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.500%			
62) 4-Bromofluorobenzene	11.079	95	102247	50.220	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.440%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.319	101	1168	0.664	ug/l #	87
12) 1,1-Dichloroethene	2.319	96	625	0.387	ug/l #	84
16) Acetone	2.392	43	547	0.531	ug/l #	81
17) Carbon Disulfide	2.501	76	1291	0.421	ug/l	98
44) Trichloroethene	7.123	130	67143	39.722	ug/l	92
64) Tetrachloroethene	9.268	164	428	0.291	ug/l #	76
88) 1,4-Dichlorobenzene	12.036	146	1120m	0.329	ug/l	
93) 1,2,4-Trichlorobenzene	13.597	180	560	0.297	ug/l	92
95) Naphthalene	13.780	128	2946	0.400	ug/l	95
96) 1,2,3-Trichlorobenzene	13.969	180	720	0.360	ug/l	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VX044485.D**

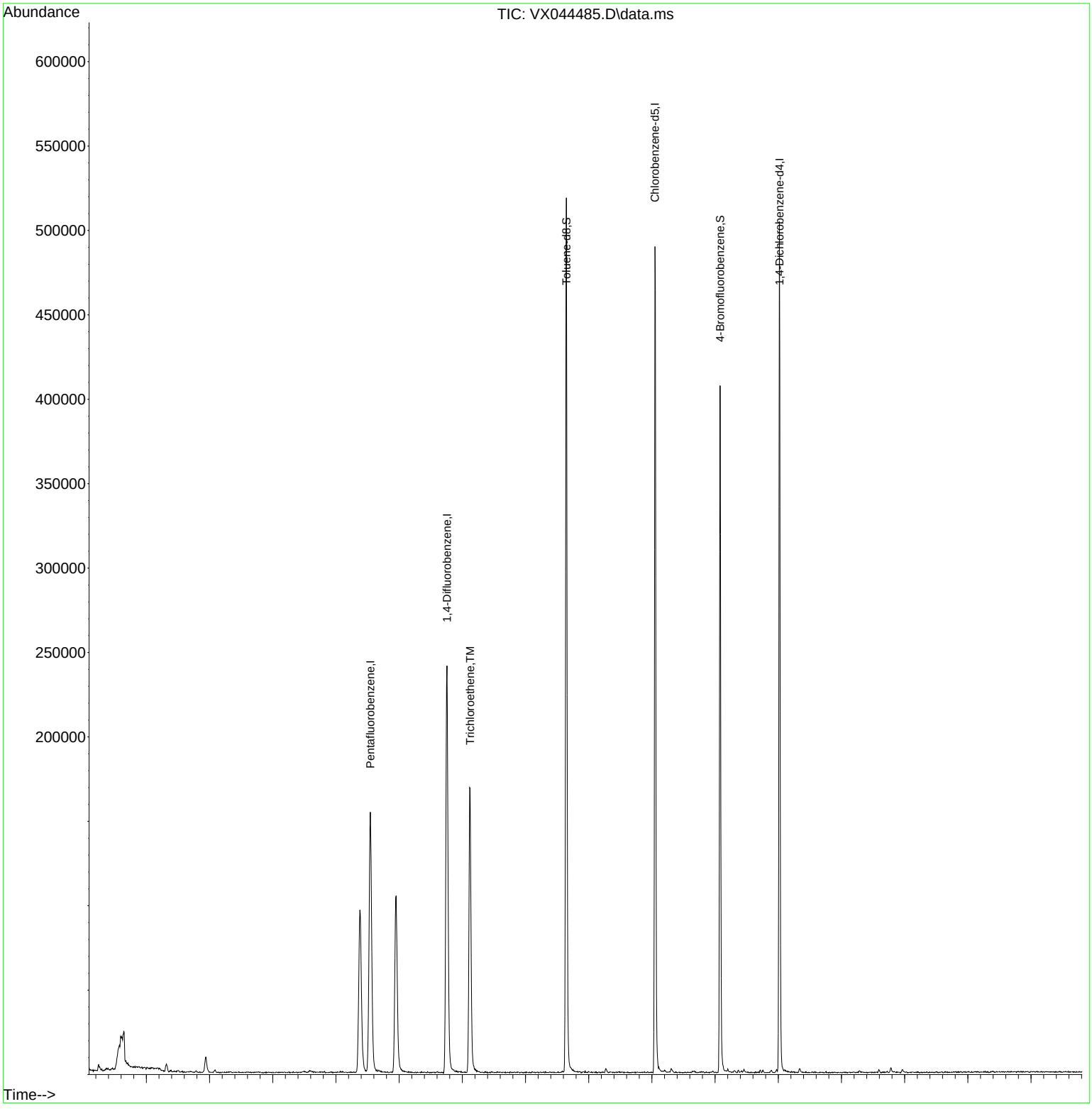
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044485.D
Acq On : 23 Dec 2024 17:09
Operator : JC/MD
Sample : P5317-21 40X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

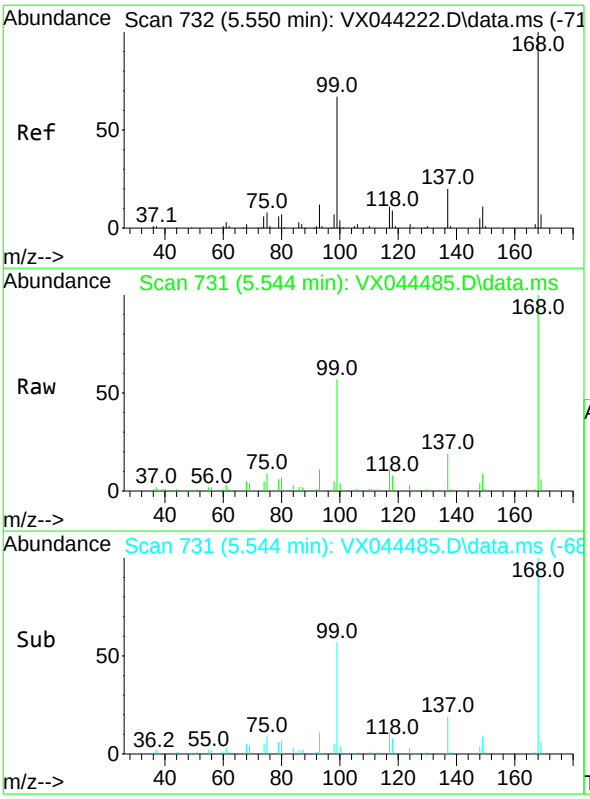
Quant Time: Dec 23 22:13:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

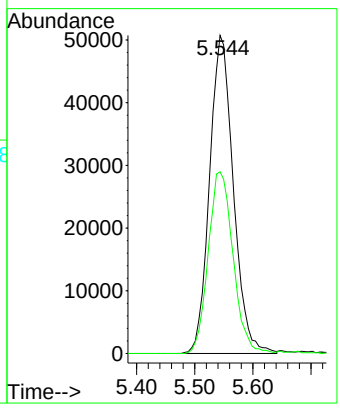
Tgt Ion:168 Resp: 144075

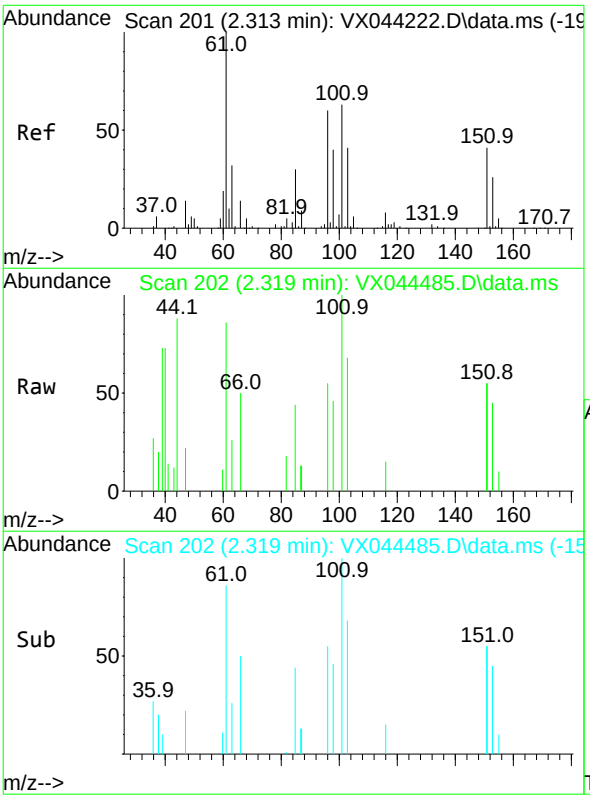
Ion	Ratio	Lower	Upper
168	100		
99	57.1	53.4	80.0

Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

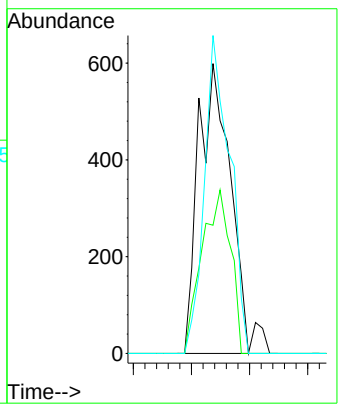


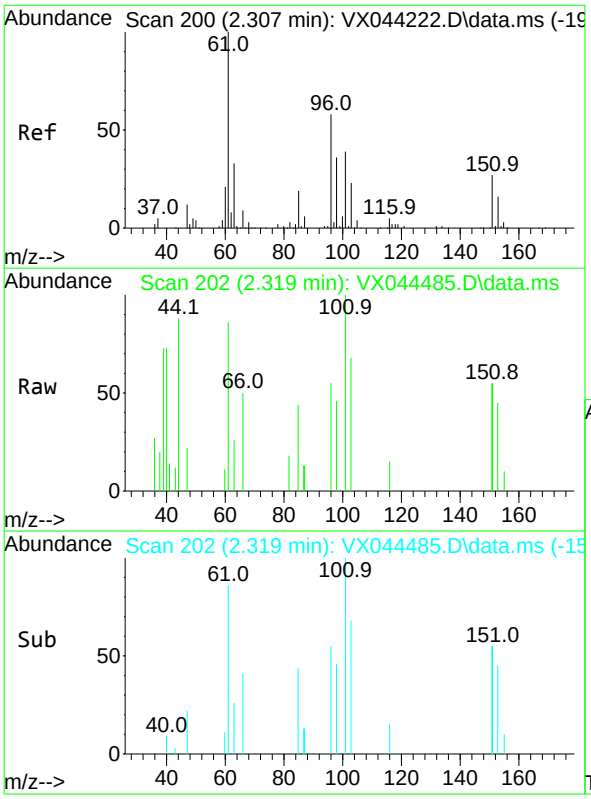


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.664 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion:101 Resp: 1168

Ion	Ratio	Lower	Upper
101	100		
85	49.7	38.5	57.7
151	85.7	55.8	83.6#

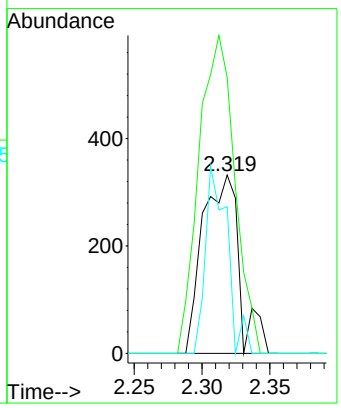




#12
1,1-Dichloroethene
Concen: 0.387 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.012 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion: 96 Resp: 625

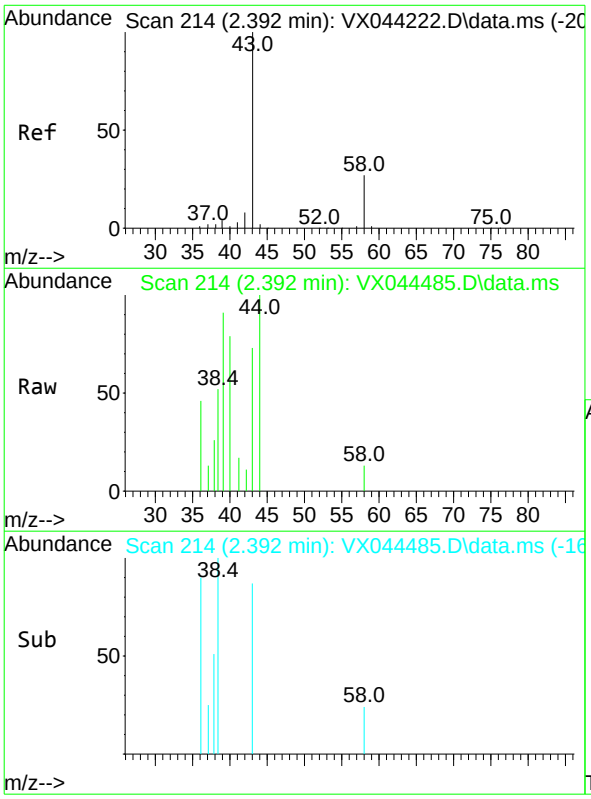
Ion	Ratio	Lower	Upper
96	100		
61	154.8	138.0	207.0
98	82.2	50.0	75.0#



Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

Manual Integrations
APPROVED

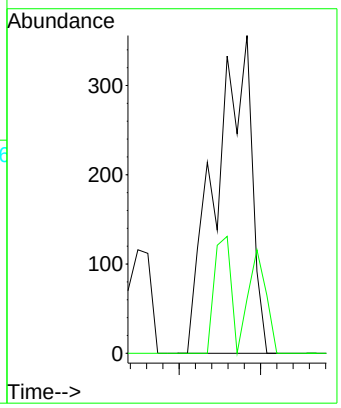
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

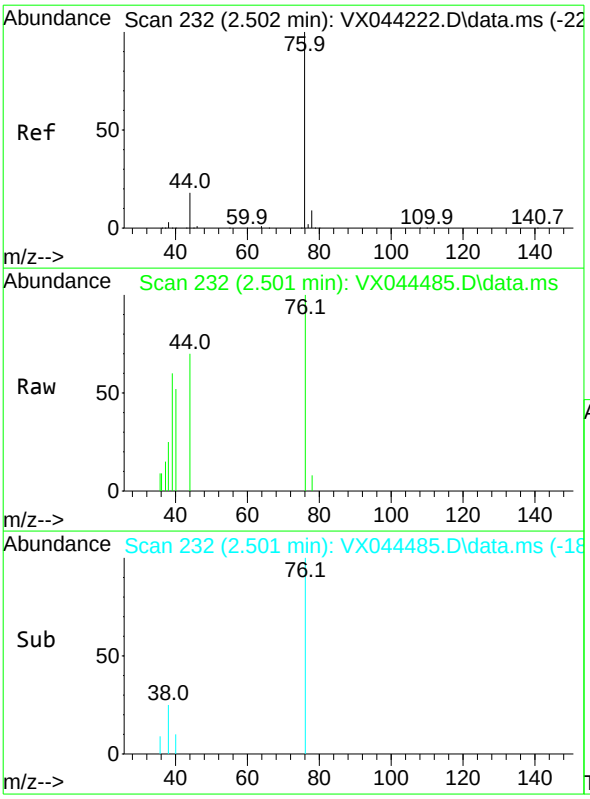


#16
Acetone
Concen: 0.531 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion: 43 Resp: 547

Ion	Ratio	Lower	Upper
43	100		
58	17.1	21.6	32.4#





#17
Carbon Disulfide
Concen: 0.421 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

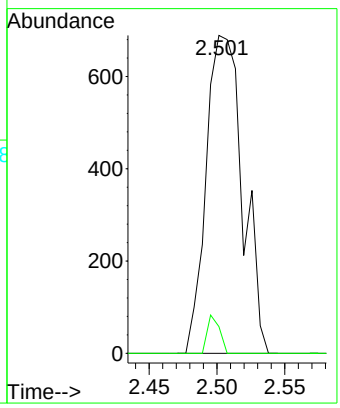
Tgt Ion: 76 Resp: 1291

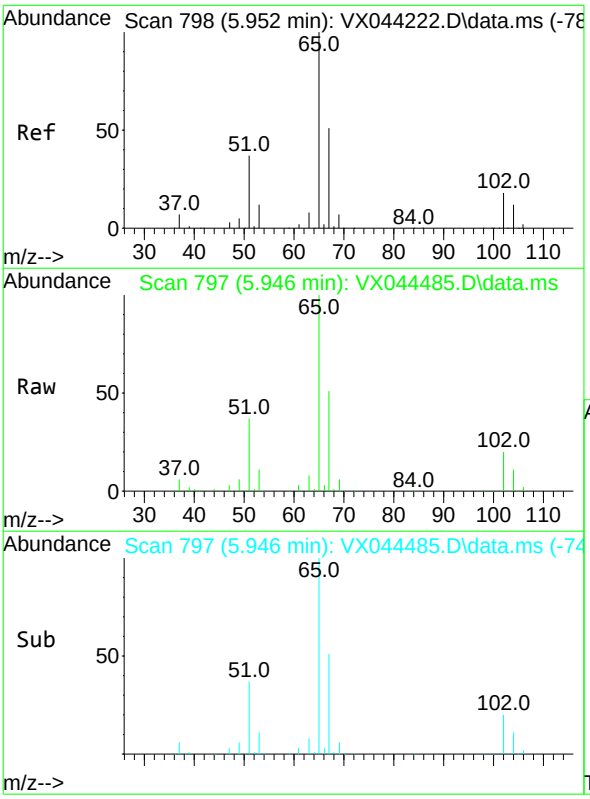
Ion	Ratio	Lower	Upper
76	100		
78	8.4	7.4	11.0

Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

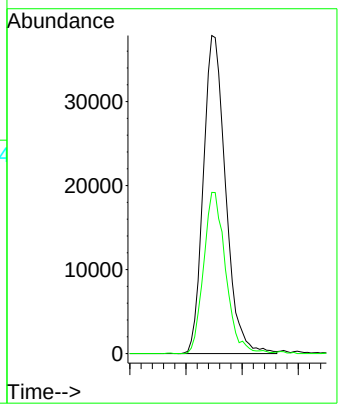


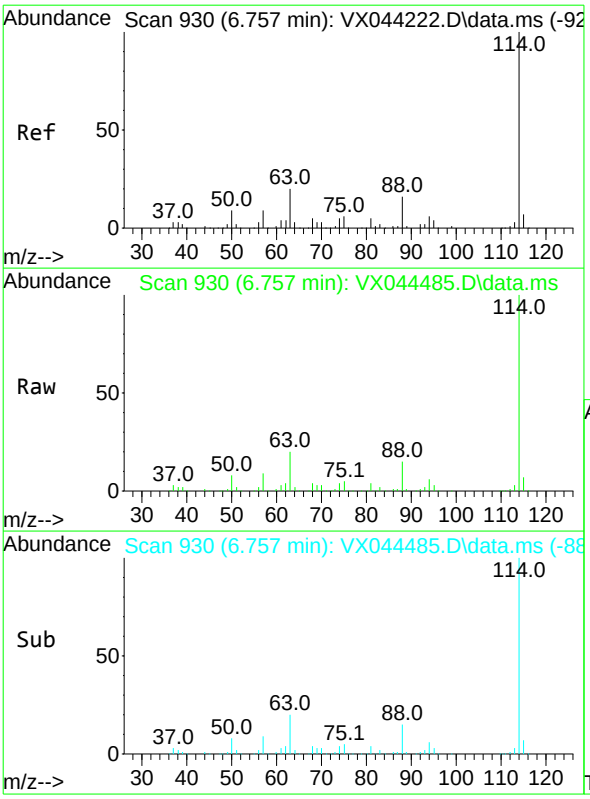


#33
1,2-Dichloroethane-d4
Concen: 41.374 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion: 65 Resp: 104514

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	101.6





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

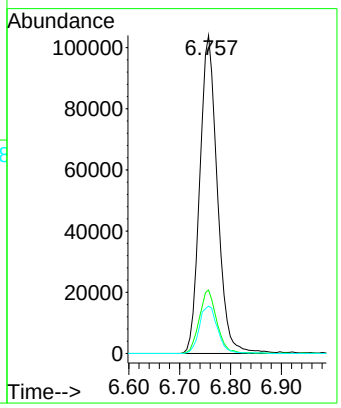
Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

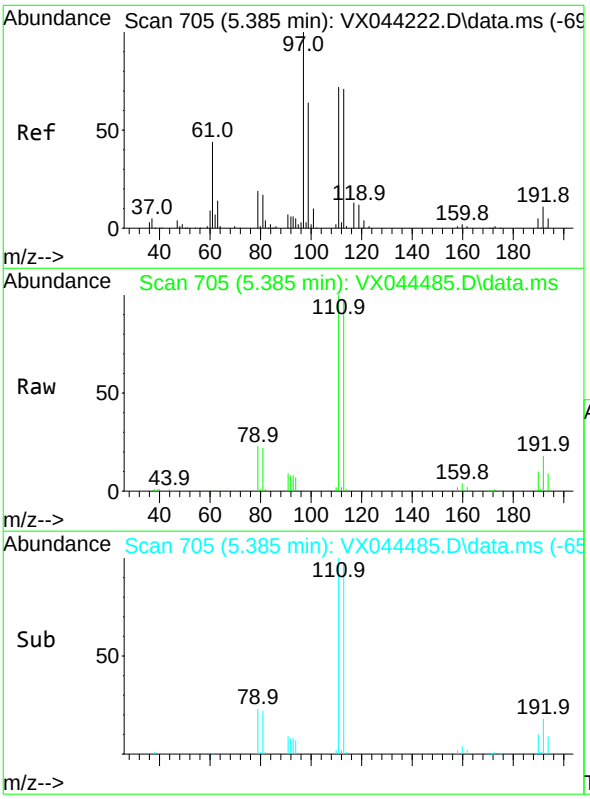
Tgt Ion:114 Resp: 249365

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	40.6
88	14.9	0.0	31.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

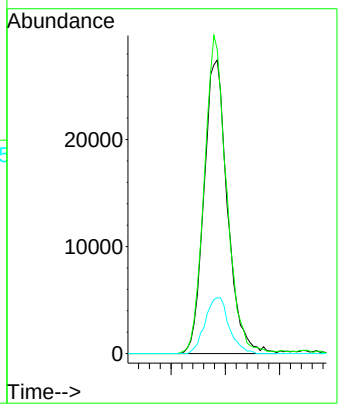


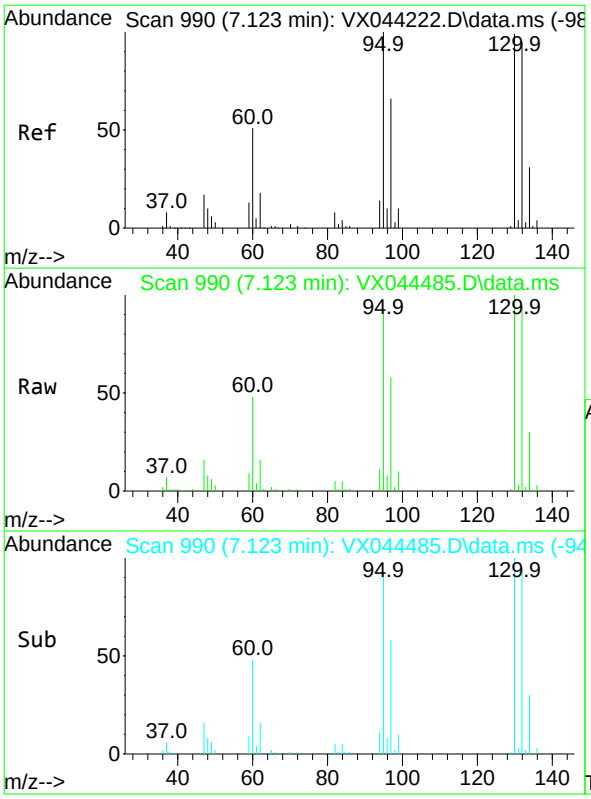


#35
Dibromofluoromethane
Concen: 47.788 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion:113 Resp: 82534

Ion	Ratio	Lower	Upper
113	100		
111	103.3	80.4	120.6
192	19.4	13.3	19.9





#44
Trichloroethene
Concen: 39.722 ug/l
RT: 7.123 min Scan# 99
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

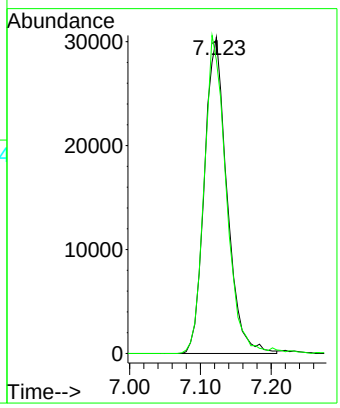
Tgt Ion:130 Resp: 67143

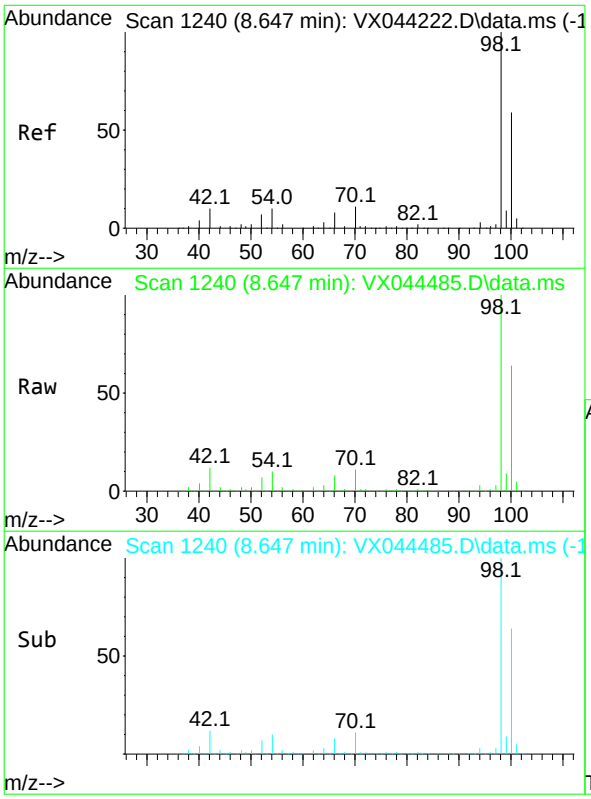
Ion	Ratio	Lower	Upper
130	100		
95	92.7	0.0	201.4

Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

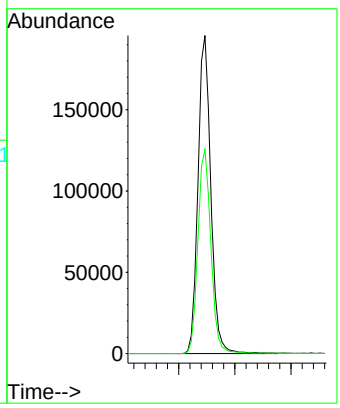


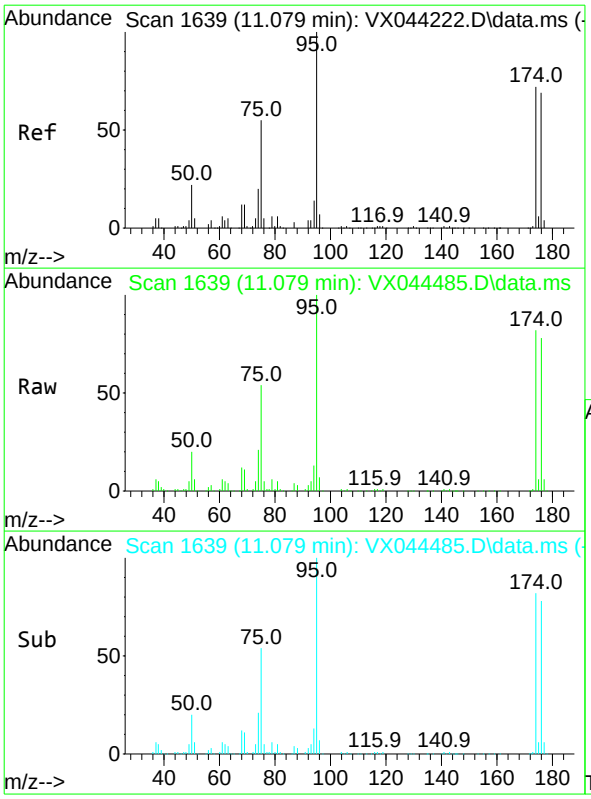


#50
Toluene-d8
Concen: 53.255 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion: 98 Resp: 310298

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.5	77.3

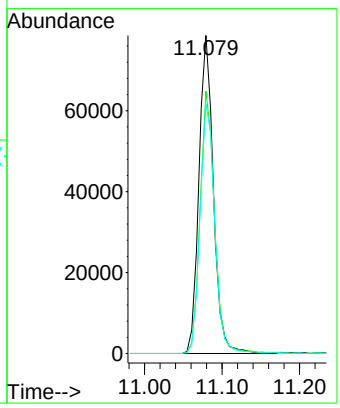




#62
4-Bromofluorobenzene
Concen: 50.220 ug/l
RT: 11.079 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion: 95 Resp: 102247

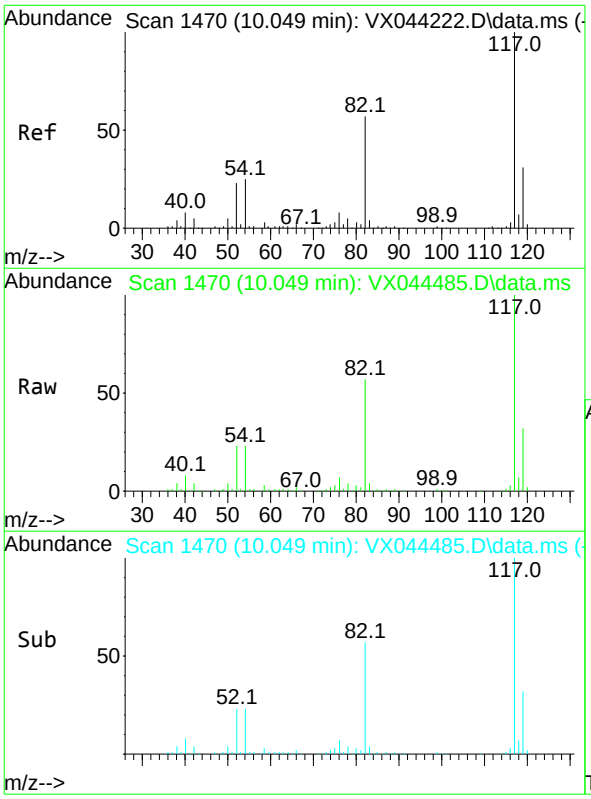
Ion	Ratio	Lower	Upper
95	100		
174	82.3	0.0	145.8
176	79.5	0.0	137.8



Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

Manual Integrations
APPROVED

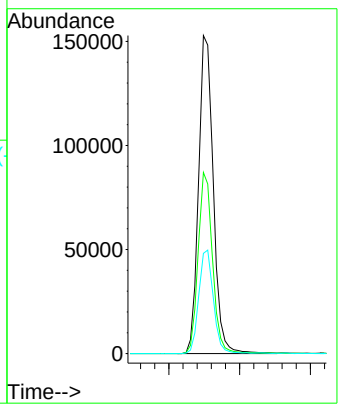
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

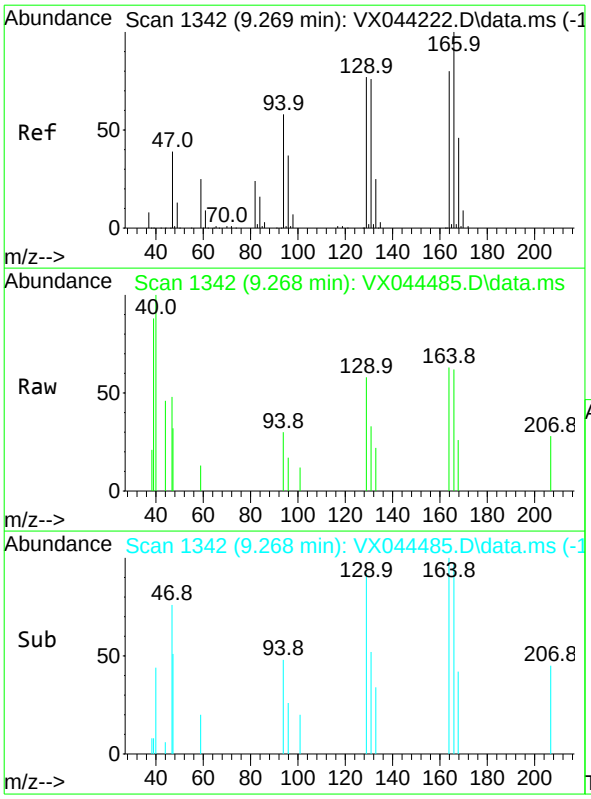


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion:117 Resp: 221444

Ion	Ratio	Lower	Upper
117	100		
82	56.9	45.8	68.8
119	31.5	25.0	37.4

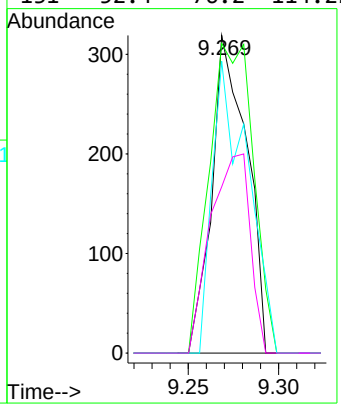




#64
Tetrachloroethene
Concen: 0.291 ug/l
RT: 9.268 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion:164 Resp: 428

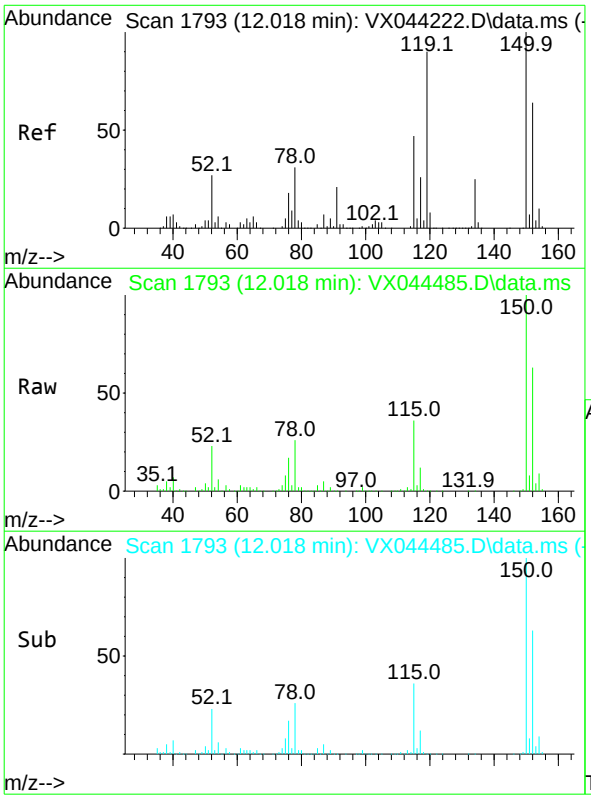
Ion	Ratio	Lower	Upper
164	100		
166	97.5	100.4	150.6#
129	91.8	77.2	115.8
131	52.4	76.2	114.2#



Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

Manual Integrations
APPROVED

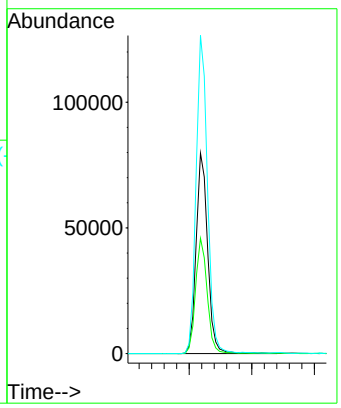
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

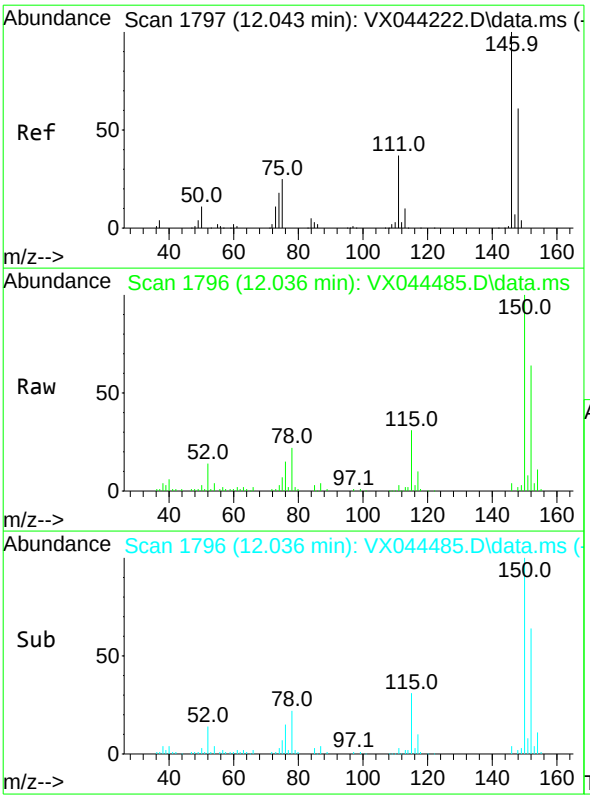


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion:152 Resp: 102248

Ion	Ratio	Lower	Upper
152	100		
115	57.8	44.5	133.3
150	156.2	0.0	353.8

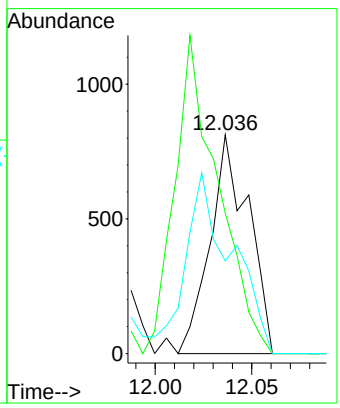




#88
1,4-Dichlorobenzene
Concen: 0.329 ug/l m
RT: 12.036 min Scan# 17
Delta R.T. -0.006 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion:146 Resp: 1120

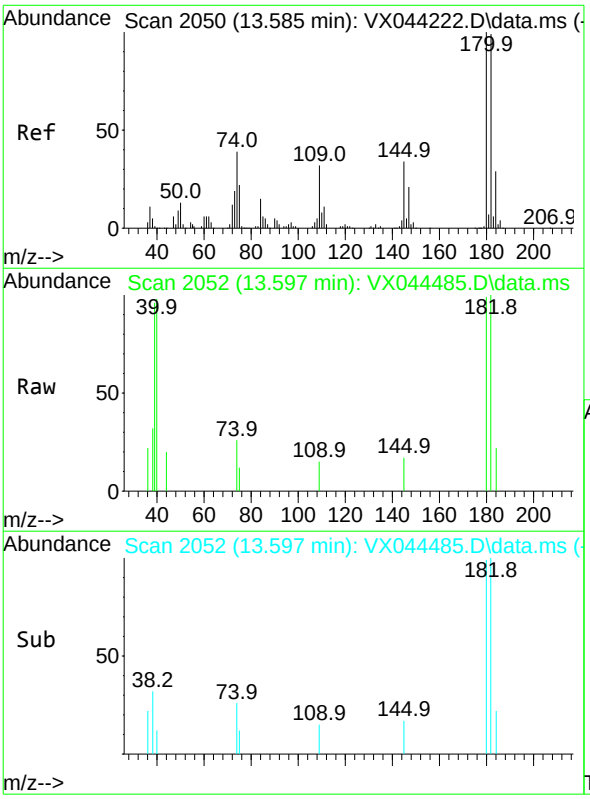
Ion	Ratio	Lower	Upper
146	100		
111	24.2	21.0	63.0
148	47.4	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

Manual Integrations
APPROVED

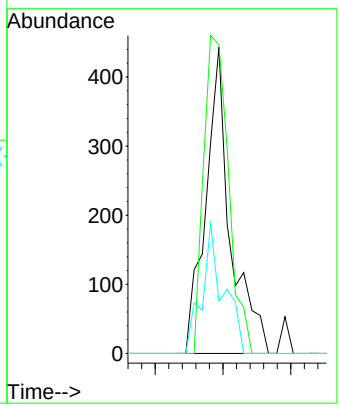
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

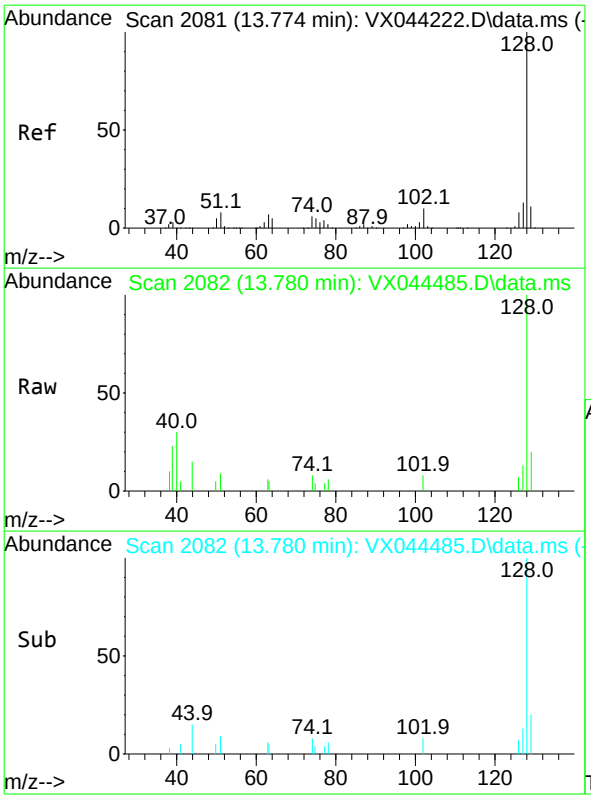


#93
1,2,4-Trichlorobenzene
Concen: 0.297 ug/l
RT: 13.597 min Scan# 2052
Delta R.T. 0.012 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion:180 Resp: 560

Ion	Ratio	Lower	Upper
180	100		
182	104.6	48.0	144.2
145	37.0	16.6	49.7

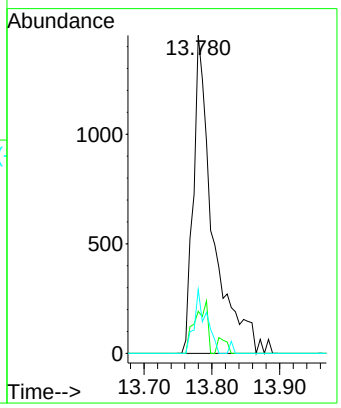




#95
Naphthalene
Concen: 0.400 ug/l
RT: 13.780 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion:128 Resp: 2946

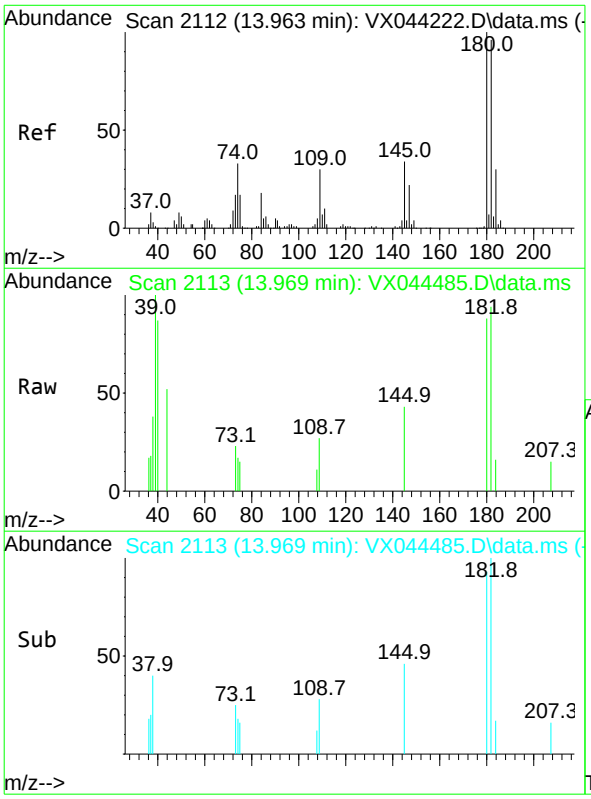
Ion	Ratio	Lower	Upper
128	100		
127	10.6	10.5	15.7
129	12.4	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

Manual Integrations
APPROVED

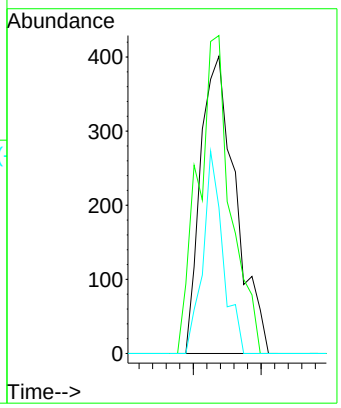
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024



#96
1,2,3-Trichlorobenzene
Concen: 0.360 ug/l
RT: 13.969 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion:180 Resp: 720

Ion	Ratio	Lower	Upper
180	100		
182	99.2	48.0	144.0
145	38.8	17.7	53.1



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D7-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-22	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044486.D	40		12/23/24 17:31	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	20.0	U	8.40	20.0	40.0	ug/L
74-87-3	Chloromethane	20.0	U	14.0	20.0	40.0	ug/L
75-01-4	Vinyl Chloride	30.0	U	13.6	30.0	40.0	ug/L
74-83-9	Bromomethane	150	U	54.4	150	200	ug/L
75-00-3	Chloroethane	30.0	U	22.4	30.0	40.0	ug/L
75-69-4	Trichlorofluoromethane	20.0	U	13.6	20.0	40.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.4	J	10.0	20.0	40.0	ug/L
75-35-4	1,1-Dichloroethene	30.0	U	10.4	30.0	40.0	ug/L
67-64-1	Acetone	150	U	55.6	150	200	ug/L
75-15-0	Carbon Disulfide	30.0	U	12.8	30.0	40.0	ug/L
1634-04-4	Methyl tert-butyl Ether	20.0	U	6.40	20.0	40.0	ug/L
79-20-9	Methyl Acetate	30.0	U	24.0	30.0	40.0	ug/L
75-09-2	Methylene Chloride	20.0	U	12.8	20.0	40.0	ug/L
156-60-5	trans-1,2-Dichloroethene	20.0	U	10.0	20.0	40.0	ug/L
75-34-3	1,1-Dichloroethane	20.0	U	9.20	20.0	40.0	ug/L
110-82-7	Cyclohexane	100	U	64.8	100	200	ug/L
78-93-3	2-Butanone	100	U	52.0	100	200	ug/L
56-23-5	Carbon Tetrachloride	20.0	U	10.0	20.0	40.0	ug/L
156-59-2	cis-1,2-Dichloroethene	30.0	U	10.0	30.0	40.0	ug/L
74-97-5	Bromochloromethane	20.0	UQ	7.20	20.0	40.0	ug/L
67-66-3	Chloroform	20.0	U	10.4	20.0	40.0	ug/L
71-55-6	1,1,1-Trichloroethane	20.0	U	7.60	20.0	40.0	ug/L
108-87-2	Methylcyclohexane	20.0	U	7.60	20.0	40.0	ug/L
71-43-2	Benzene	20.0	U	6.40	20.0	40.0	ug/L
107-06-2	1,2-Dichloroethane	20.0	U	9.60	20.0	40.0	ug/L
79-01-6	Trichloroethene	1100		12.8	30.0	40.0	ug/L
78-87-5	1,2-Dichloropropane	20.0	U	7.60	20.0	40.0	ug/L
75-27-4	Bromodichloromethane	20.0	U	9.60	20.0	40.0	ug/L
108-10-1	4-Methyl-2-Pentanone	100	U	30.0	100	200	ug/L
108-88-3	Toluene	20.0	U	7.20	20.0	40.0	ug/L

Raw Data: **VX044486.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D7-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-22	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044486.D	40		12/23/24 17:31	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.0	U	8.40	20.0	40.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0	U	7.20	20.0	40.0	ug/L
79-00-5	1,1,2-Trichloroethane	20.0	U	8.40	20.0	40.0	ug/L
591-78-6	2-Hexanone	100	U	45.2	100	200	ug/L
124-48-1	Dibromochloromethane	20.0	U	7.20	20.0	40.0	ug/L
106-93-4	1,2-Dibromoethane	20.0	U	6.40	20.0	40.0	ug/L
127-18-4	Tetrachloroethene	20.0	UQ	10.0	20.0	40.0	ug/L
108-90-7	Chlorobenzene	20.0	U	5.20	20.0	40.0	ug/L
100-41-4	Ethyl Benzene	20.0	U	6.40	20.0	40.0	ug/L
179601-23-1	m/p-Xylenes	40.0	U	12.4	40.0	80.0	ug/L
95-47-6	o-Xylene	20.0	U	5.60	20.0	40.0	ug/L
100-42-5	Styrene	20.0	U	6.40	20.0	40.0	ug/L
75-25-2	Bromoform	20.0	U	8.40	20.0	40.0	ug/L
98-82-8	Isopropylbenzene	20.0	U	5.20	20.0	40.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.0	U	10.8	20.0	40.0	ug/L
541-73-1	1,3-Dichlorobenzene	20.0	U	9.60	20.0	40.0	ug/L
106-46-7	1,4-Dichlorobenzene	20.0	U	10.8	20.0	40.0	ug/L
95-50-1	1,2-Dichlorobenzene	20.0	U	7.60	20.0	40.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	30.0	U	18.4	30.0	40.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.0	U	16.8	20.0	40.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	30.0	U	20.4	30.0	40.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.0		81 - 118		84%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	53.0		89 - 112		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	147000	5.544				
540-36-3	1,4-Difluorobenzene	250000	6.757				
3114-55-4	Chlorobenzene-d5	213000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	100000	12.018				

Raw Data: **VX044486.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D7-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-22	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044486.D	40		12/23/24 17:31	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044486.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044486.D
Acq On : 23 Dec 2024 17:31
Operator : JC/MD
Sample : P5317-22 40X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20241217

Quant Time: Dec 23 22:13:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	146702	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	250392	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	212795	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	100422	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	108155	42.048	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 84.100%			
35) Dibromofluoromethane	5.379	113	87011	50.174	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.340%			
50) Toluene-d8	8.647	98	310122	53.006	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.020%			
62) 4-Bromofluorobenzene	11.079	95	105608	51.658	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.320%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.325	101	778	0.435	ug/l #	89
16) Acetone	2.386	43	458	0.437	ug/l #	78
44) Trichloroethene	7.123	130	48195	28.396	ug/l	97

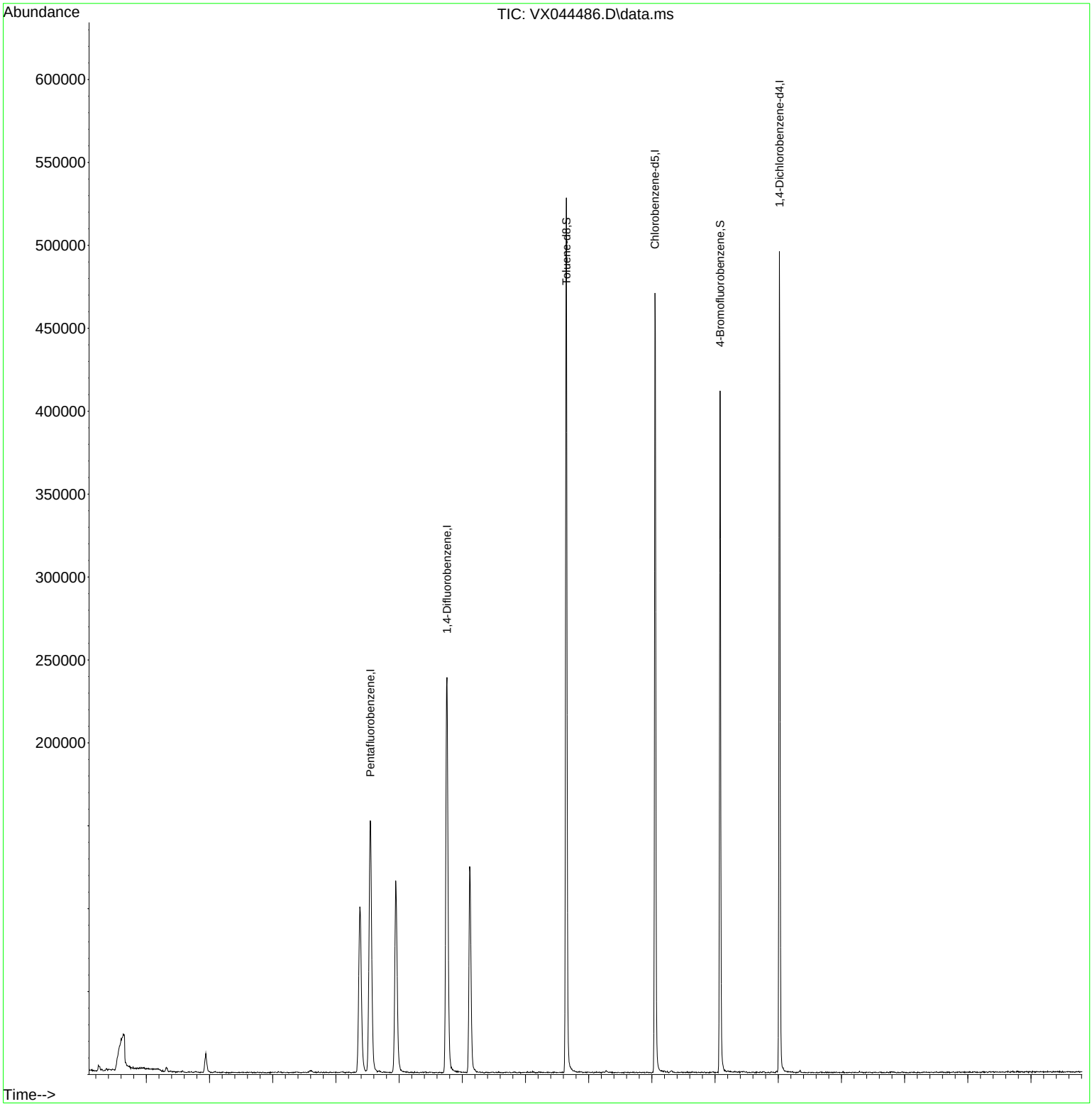
(#) = qualifier out of range (m) = manual integration (+) = signals summed

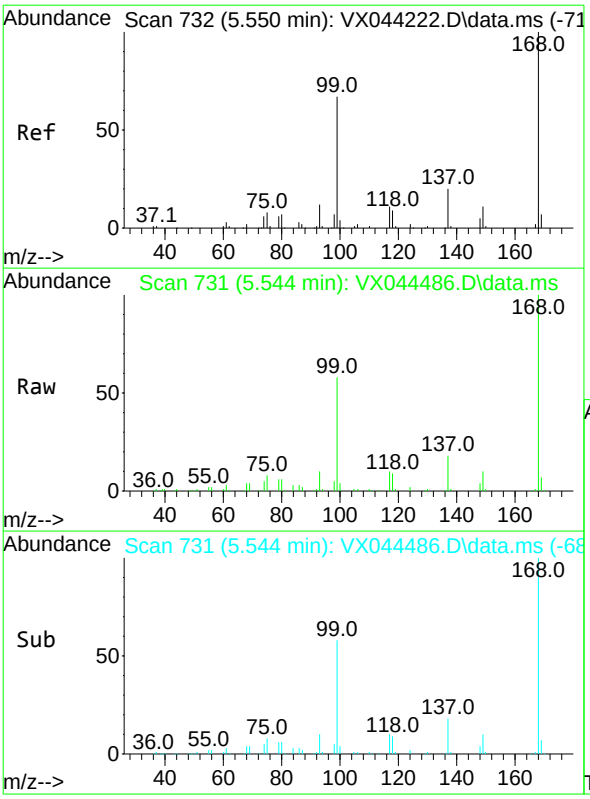
Sample Results: **VX044486.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044486.D
Acq On : 23 Dec 2024 17:31
Operator : JC/MD
Sample : P5317-22 40X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20241217

Quant Time: Dec 23 22:13:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



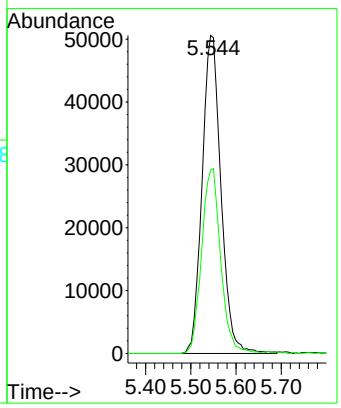


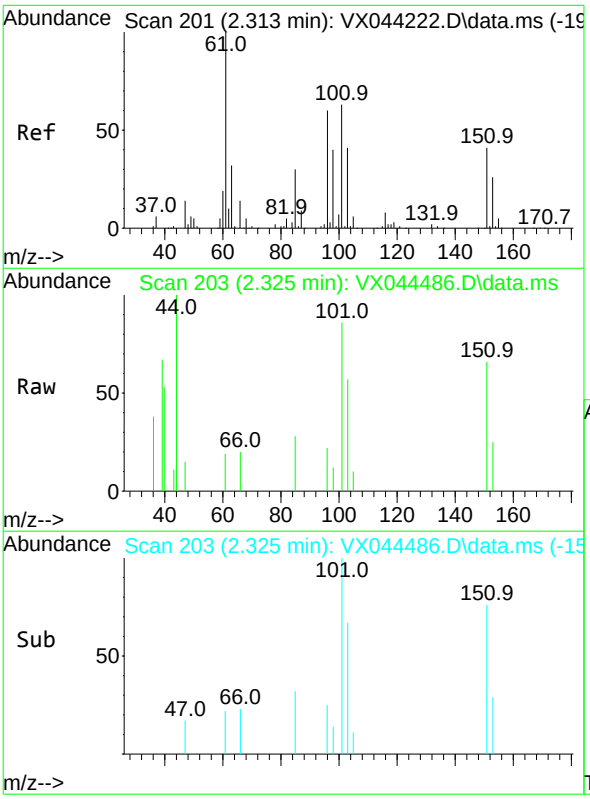
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044486.D
Acq: 23 Dec 2024 17:31

Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20241217

Tgt Ion:168 Resp: 146702

Ion	Ratio	Lower	Upper
168	100		
99	57.7	53.4	80.0

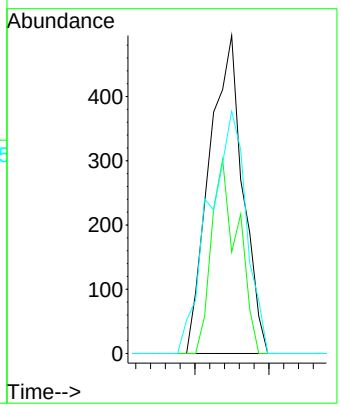


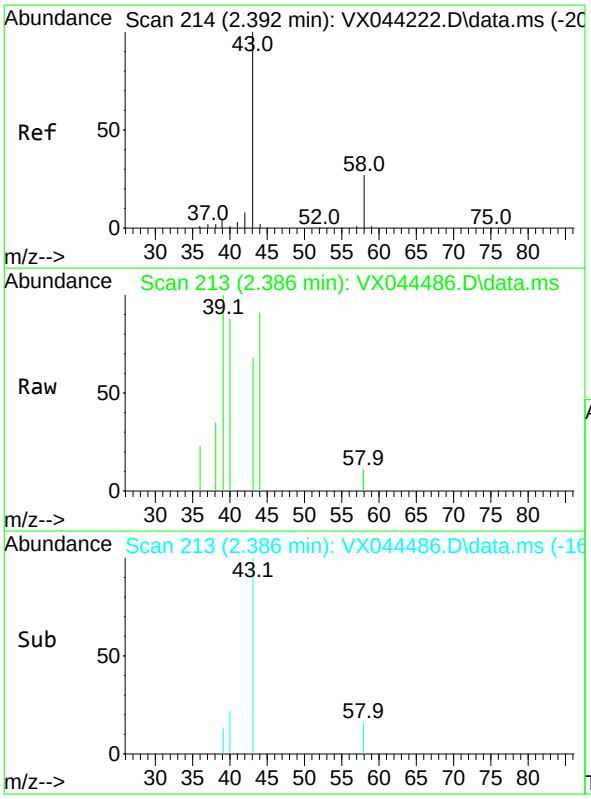


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.435 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.012 min
Lab File: VX044486.D
Acq: 23 Dec 2024 17:31

Tgt Ion:101 Resp: 778

Ion	Ratio	Lower	Upper
101	100		
85	48.3	38.5	57.7
151	85.3	55.8	83.6#



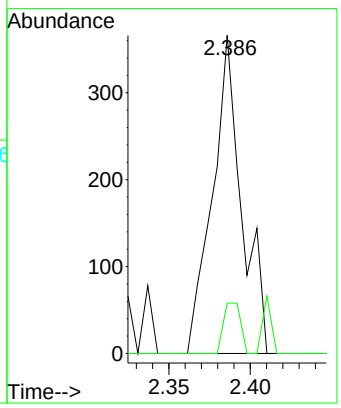


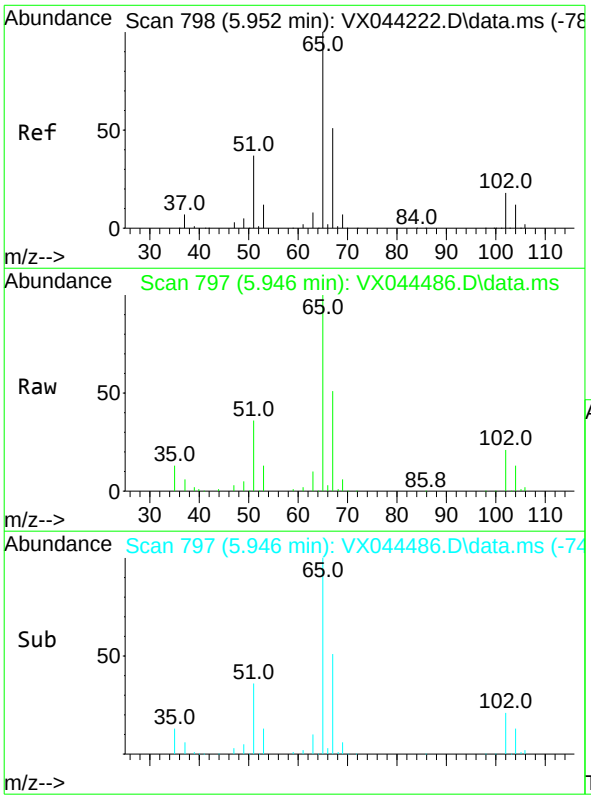
#16
Acetone
Concen: 0.437 ug/l
RT: 2.386 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX044486.D
Acq: 23 Dec 2024 17:31

Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20241217

Tgt Ion: 43 Resp: 458

Ion	Ratio	Lower	Upper
43	100		
58	15.8	21.6	32.4#

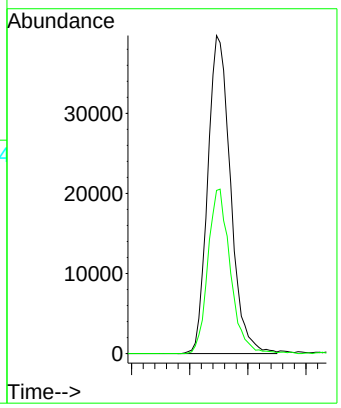


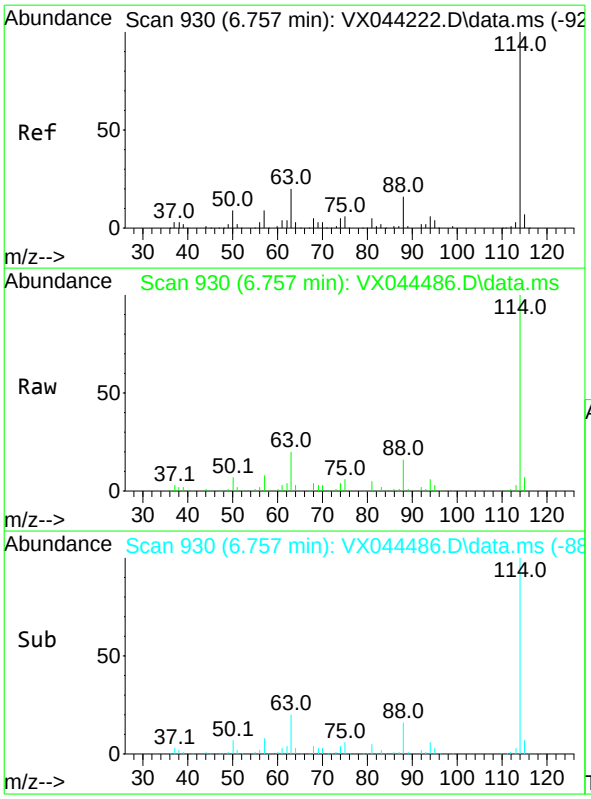


#33
1,2-Dichloroethane-d4
Concen: 42.048 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX044486.D
Acq: 23 Dec 2024 17:31

Tgt Ion: 65 Resp: 108155

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	101.6



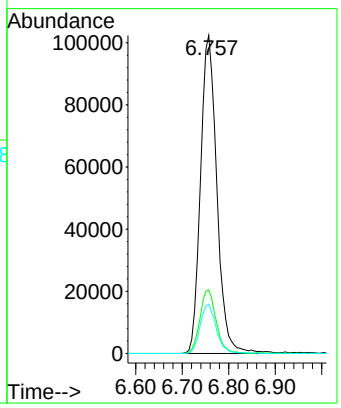


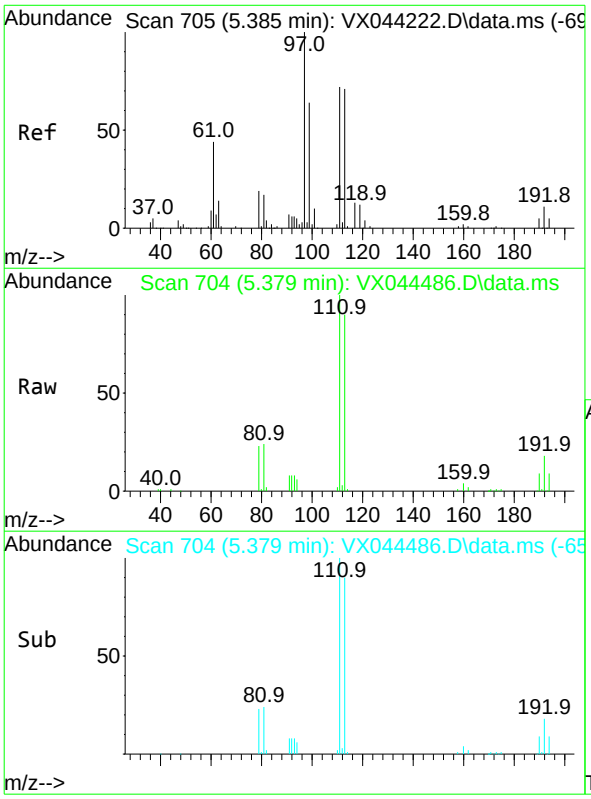
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. 0.000 min
Lab File: VX044486.D
Acq: 23 Dec 2024 17:31

Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20241217

Tgt Ion:114 Resp: 250392

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	40.6
88	15.5	0.0	31.8

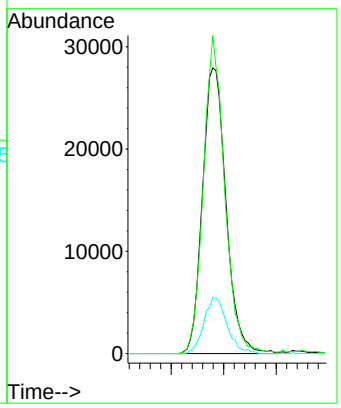


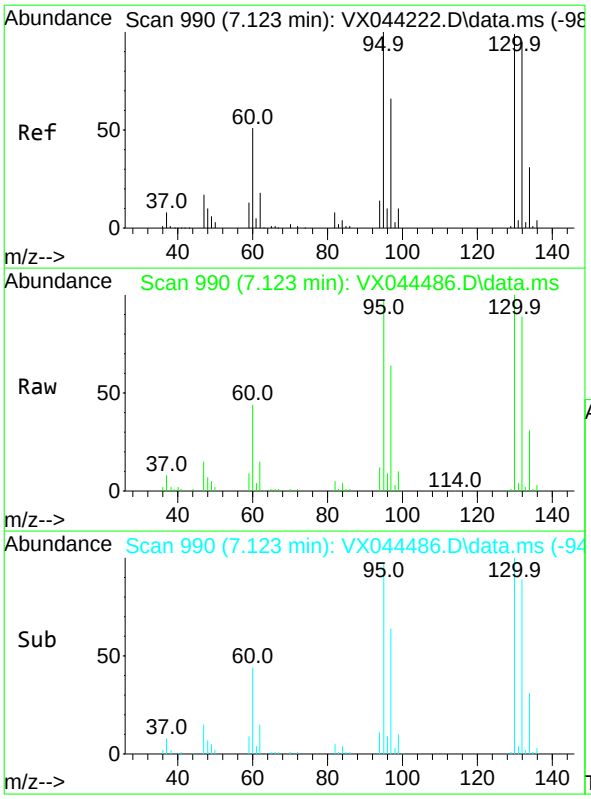


#35
Dibromofluoromethane
Concen: 50.174 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX044486.D
Acq: 23 Dec 2024 17:31

Tgt Ion:113 Resp: 87011

Ion	Ratio	Lower	Upper
113	100		
111	100.9	80.4	120.6
192	19.3	13.3	19.9



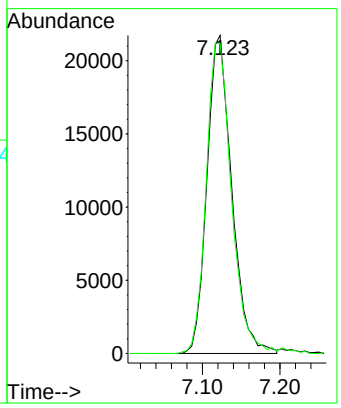


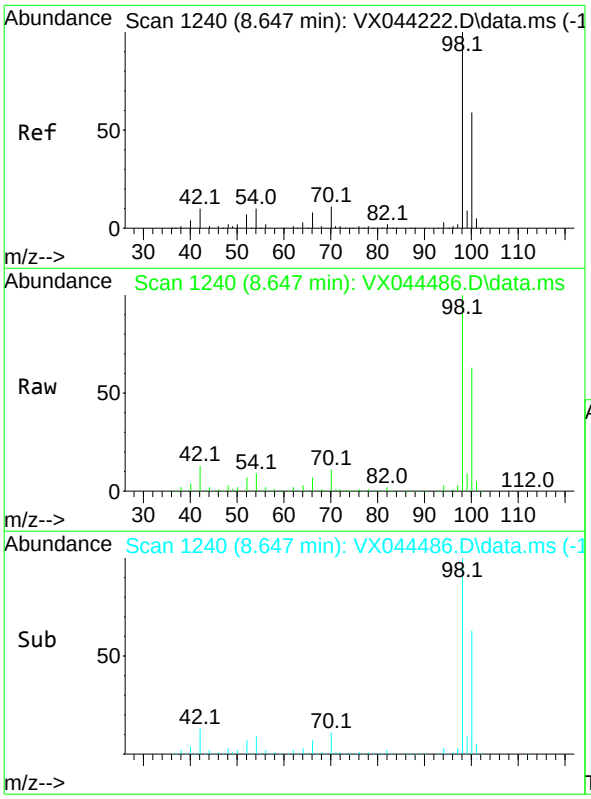
#44
Trichloroethene
Concen: 28.396 ug/l
RT: 7.123 min Scan# 99
Delta R.T. 0.000 min
Lab File: VX044486.D
Acq: 23 Dec 2024 17:31

Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20241217

Tgt Ion:130 Resp: 48195

Ion	Ratio	Lower	Upper
130	100		
95	97.5	0.0	201.4

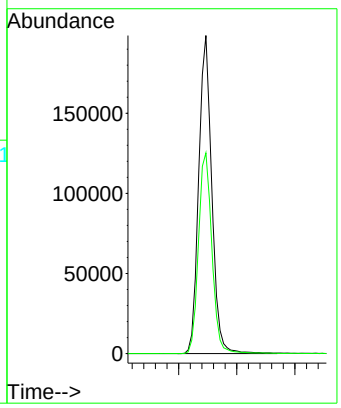


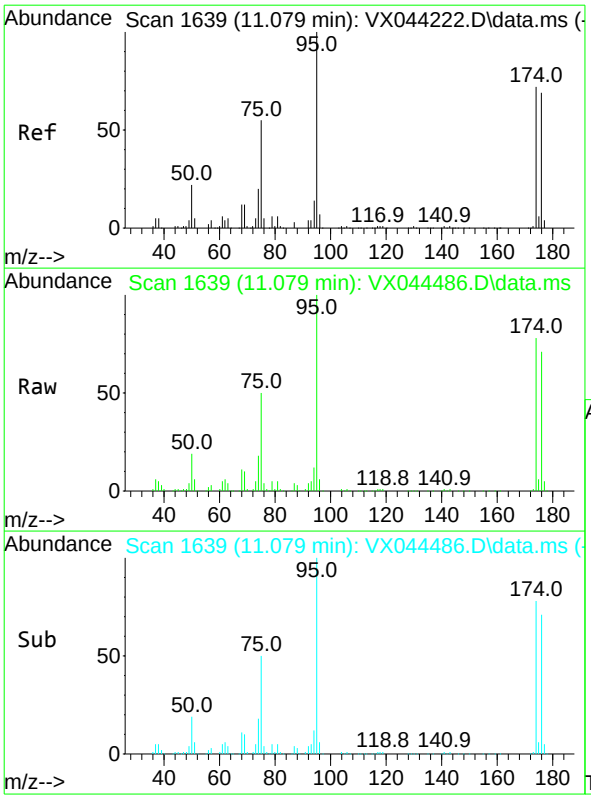


#50
Toluene-d8
Concen: 53.006 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044486.D
Acq: 23 Dec 2024 17:31

Tgt Ion: 98 Resp: 310122

Ion	Ratio	Lower	Upper
98	100		
100	64.9	51.5	77.3



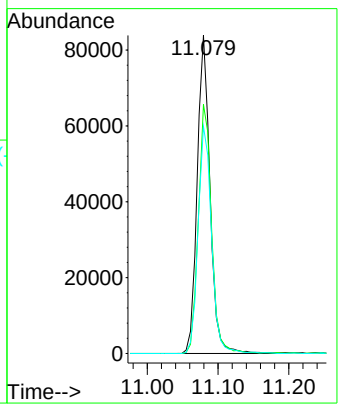


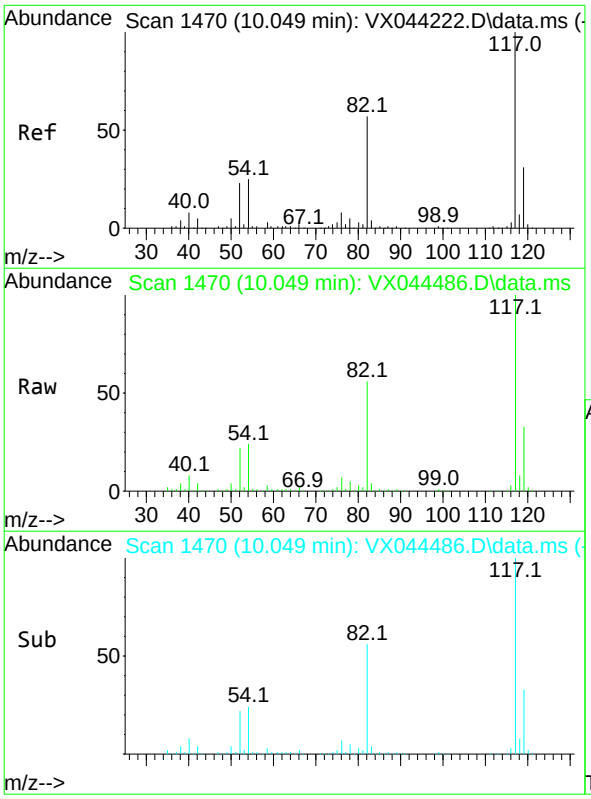
#62
4-Bromofluorobenzene
Concen: 51.658 ug/l
RT: 11.079 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044486.D
Acq: 23 Dec 2024 17:31

Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20241217

Tgt Ion: 95 Resp: 105608

Ion	Ratio	Lower	Upper
95	100		
174	80.7	0.0	145.8
176	75.0	0.0	137.8

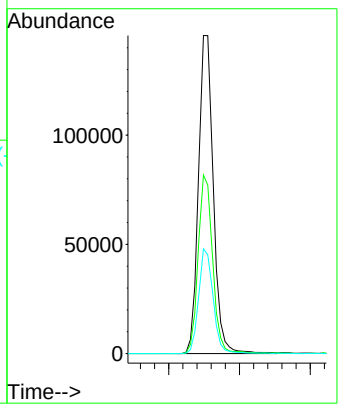


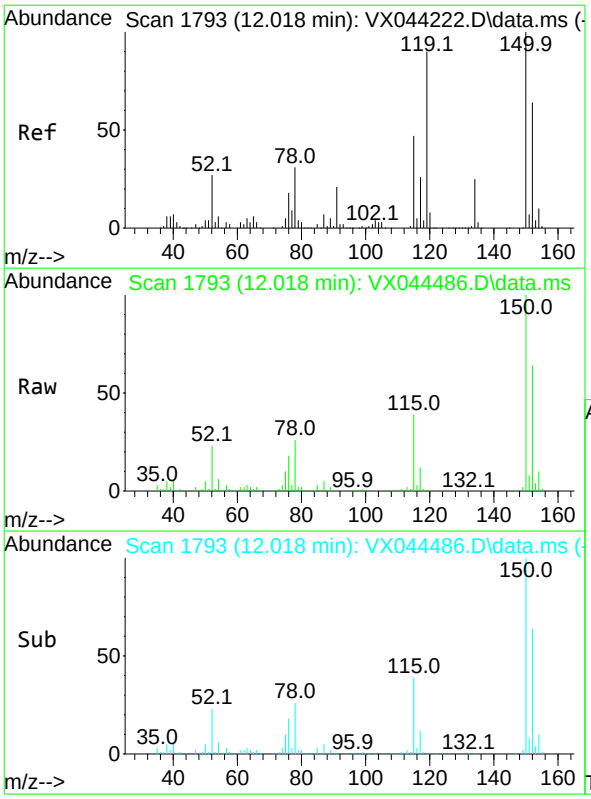


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044486.D
Acq: 23 Dec 2024 17:31

Tgt Ion:117 Resp: 212795

Ion	Ratio	Lower	Upper
117	100		
82	56.1	45.8	68.8
119	33.0	25.0	37.4



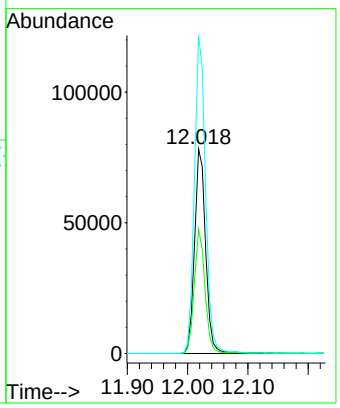


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044486.D
Acq: 23 Dec 2024 17:31

Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20241217

Tgt Ion:152 Resp: 100422

Ion	Ratio	Lower	Upper
152	100		
115	58.4	44.5	133.3
150	155.7	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TB	SDG No.:	P5317
Lab Sample ID:	P5317-23	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044415.D	1		12/19/24 05:41	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.37	J	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.32	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TB	SDG No.:	P5317
Lab Sample ID:	P5317-23	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044415.D	1		12/19/24 05:41	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.4		81 - 118		89%	SPK: 50
1868-53-7	Dibromofluoromethane	46.5		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	51.5		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	109000	5.55				
540-36-3	1,4-Difluorobenzene	198000	6.757				
3114-55-4	Chlorobenzene-d5	171000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	68400	12.024				

Raw Data: **VX044415.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	TB	SDG No.:	P5317
Lab Sample ID:	P5317-23	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044415.D	1		12/19/24 05:41	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044415.D
Acq On : 19 Dec 2024 05:41
Operator : JC/MD
Sample : P5317-23
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

Quant Time: Dec 19 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	109432	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	198449	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	170843	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	68420	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	85281	44.447	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 88.900%			
35) Dibromofluoromethane	5.385	113	63884	46.480	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.960%			
50) Toluene-d8	8.647	98	238815	51.502	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.000%			
62) 4-Bromofluorobenzene	11.079	95	74913	46.235	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.460%			
Target Compounds						Qvalue
3) Chloromethane	1.300	50	599	0.370	ug/l	99
16) Acetone	2.392	43	948	1.212	ug/l	90
20) Methylene Chloride	2.788	84	463	0.315	ug/l #	78

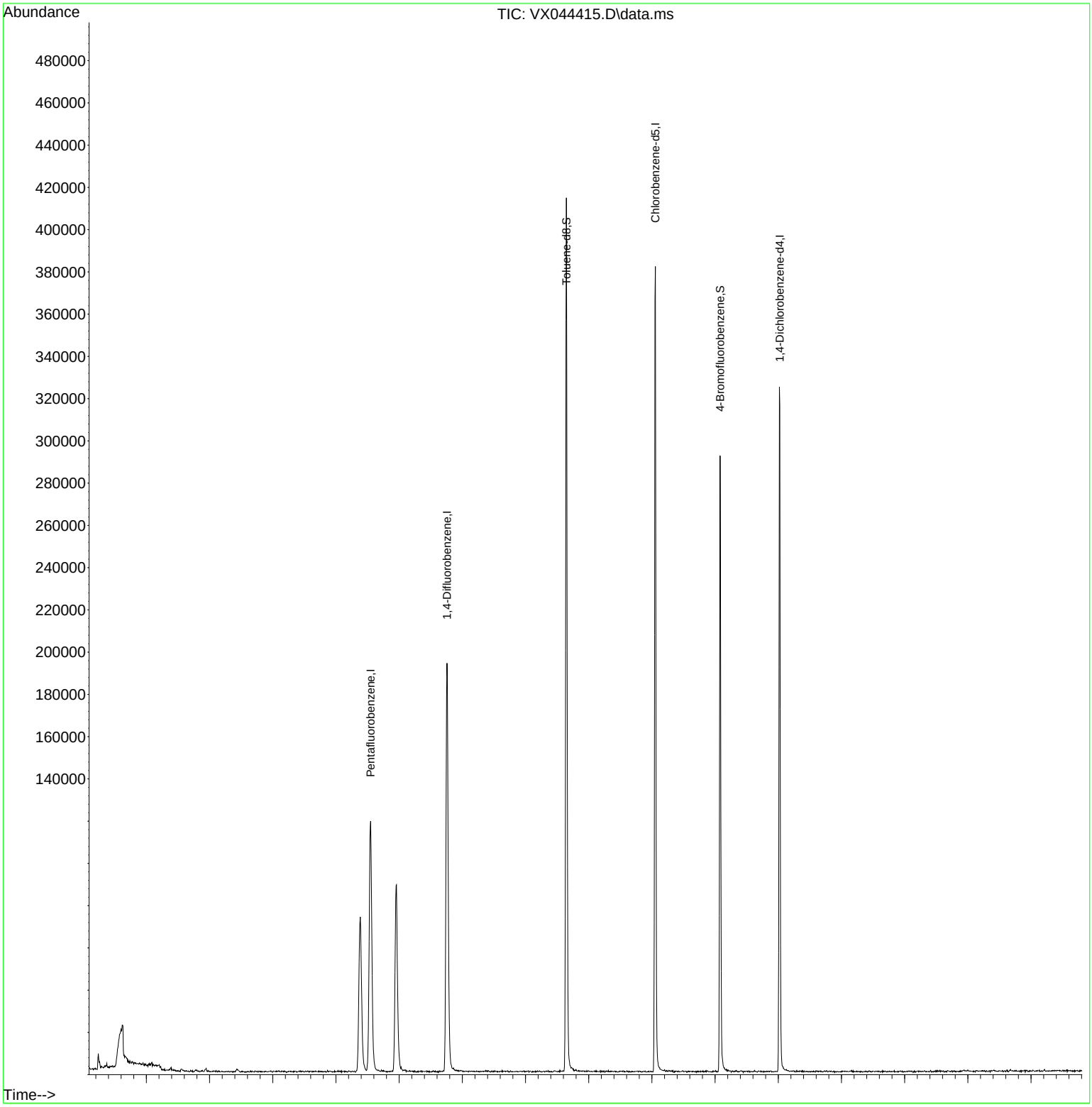
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VX044415.D**

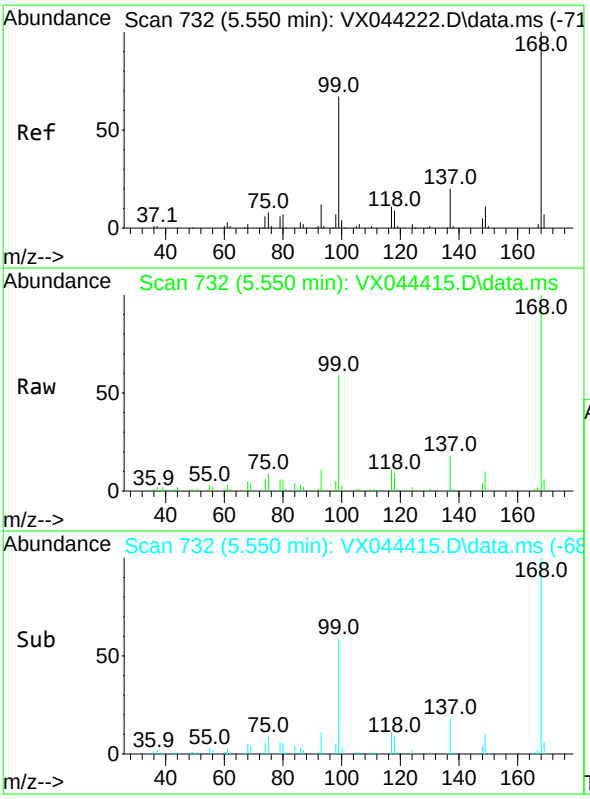
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044415.D
Acq On : 19 Dec 2024 05:41
Operator : JC/MD
Sample : P5317-23
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

Quant Time: Dec 19 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



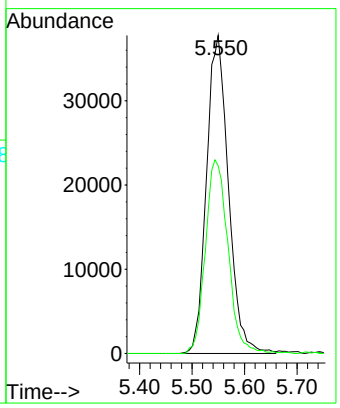
Instrument :
MSVOA_X
ClientSampleId :
TB

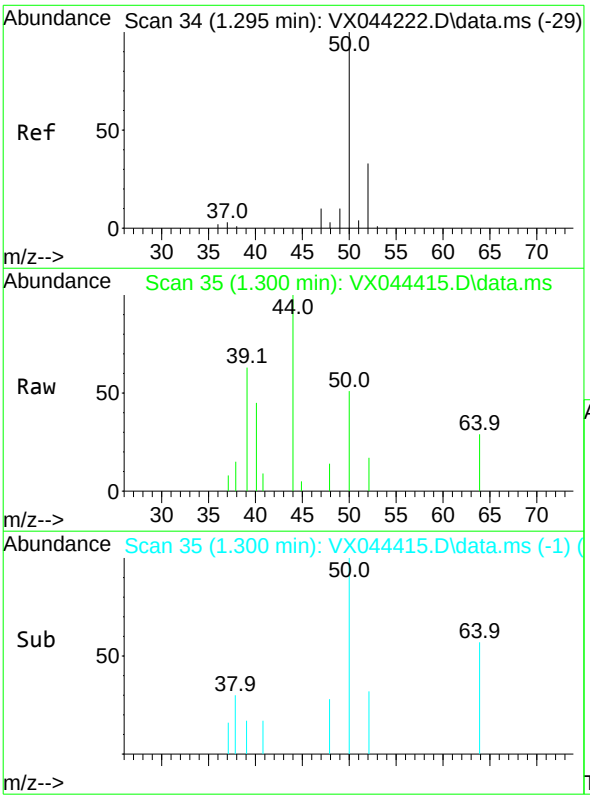


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044415.D
Acq: 19 Dec 2024 05:41

Tgt Ion:168 Resp: 109432

Ion	Ratio	Lower	Upper
168	100		
99	59.0	53.4	80.0

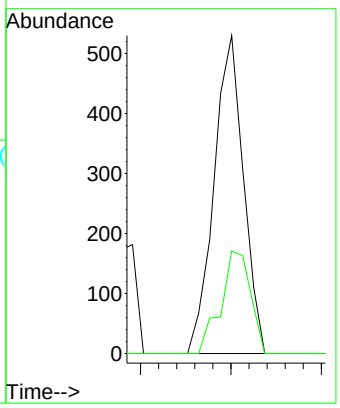


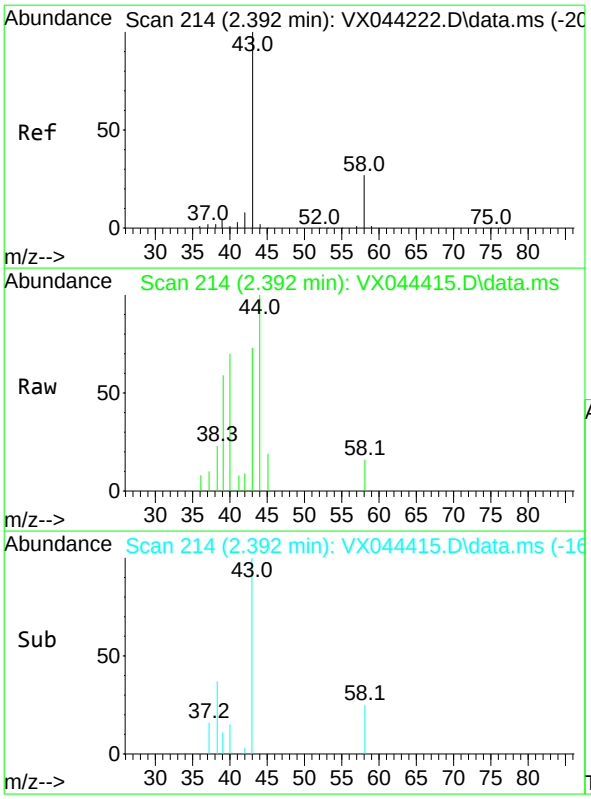


#3
Chloromethane
Concen: 0.370 ug/l
RT: 1.300 min Scan# 35
Delta R.T. 0.006 min
Lab File: VX044415.D
Acq: 19 Dec 2024 05:41

Tgt Ion: 50 Resp: 599

Ion	Ratio	Lower	Upper
50	100		
52	32.3	26.5	39.7



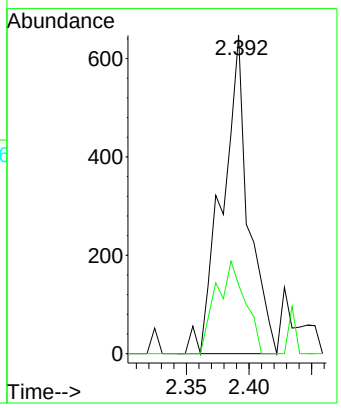


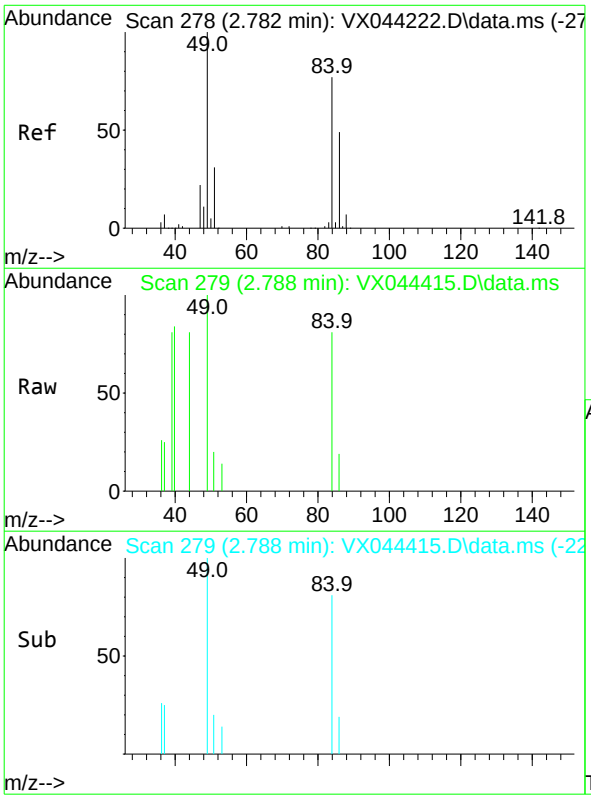
#16
Acetone
Concen: 1.212 ug/l
RT: 2.392 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX044415.D
Acq: 19 Dec 2024 05:41

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion: 43 Resp: 948

Ion	Ratio	Lower	Upper
43	100		
58	21.6	21.6	32.4

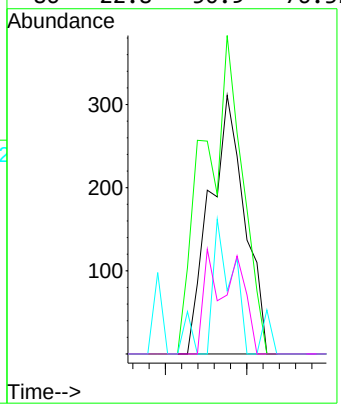


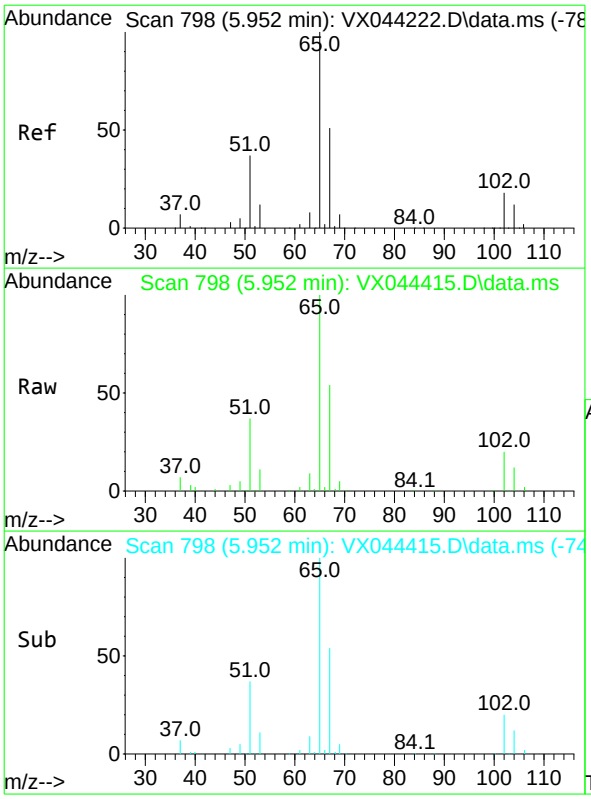


#20
Methylene Chloride
Concen: 0.315 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX044415.D
Acq: 19 Dec 2024 05:41

Tgt Ion: 84 Resp: 463

Ion	Ratio	Lower	Upper
84	100		
49	123.2	104.2	156.4
51	24.4	32.2	48.4#
86	22.8	50.9	76.3#



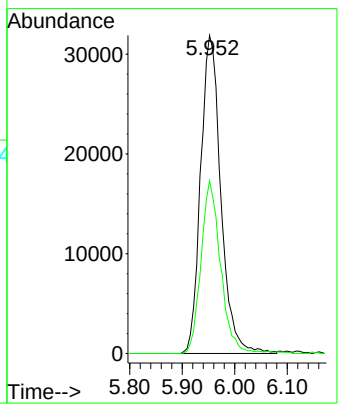


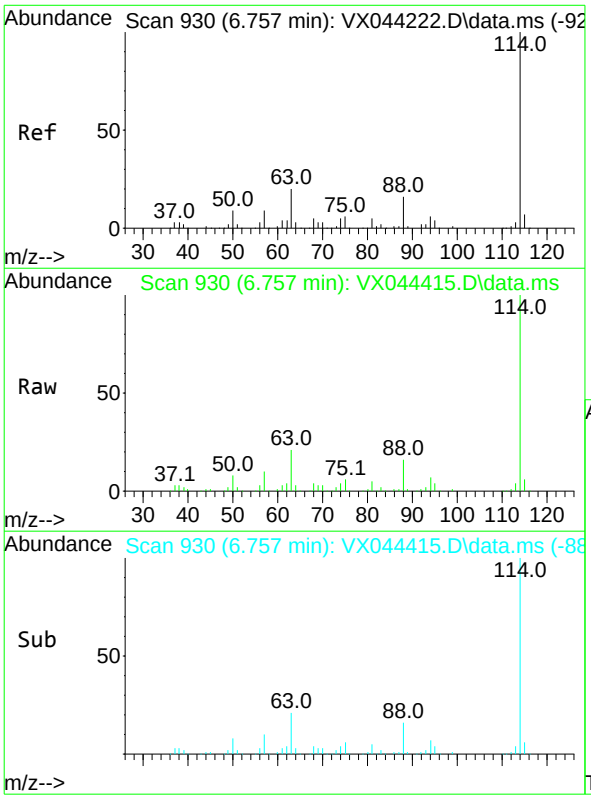
#33
1,2-Dichloroethane-d4
Concen: 44.447 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044415.D
Acq: 19 Dec 2024 05:41

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion: 65 Resp: 85281

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	101.6

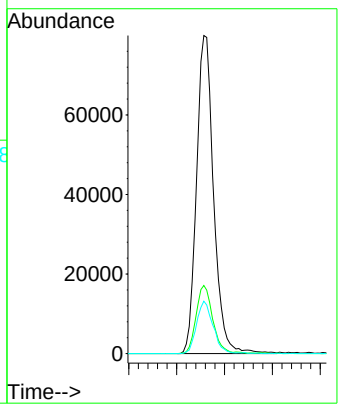


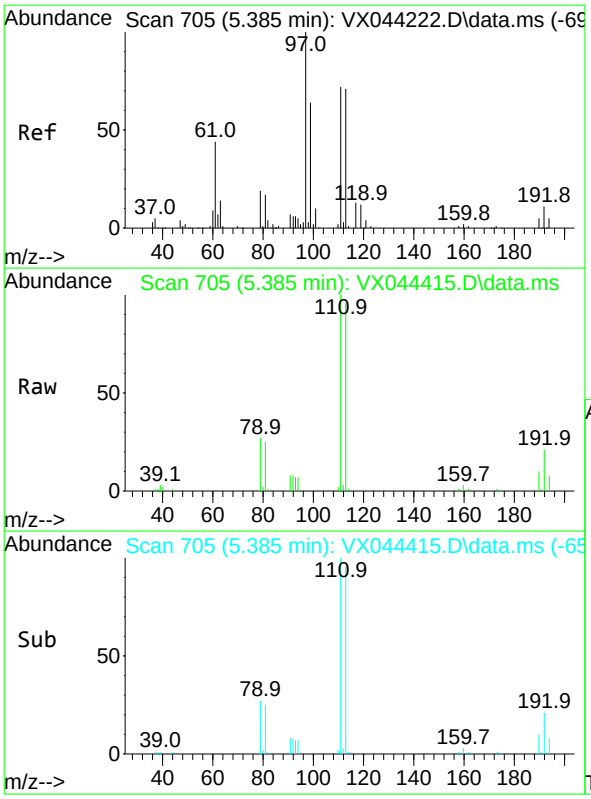


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044415.D
Acq: 19 Dec 2024 05:41

Tgt Ion:114 Resp: 198449

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	40.6
88	16.5	0.0	31.8



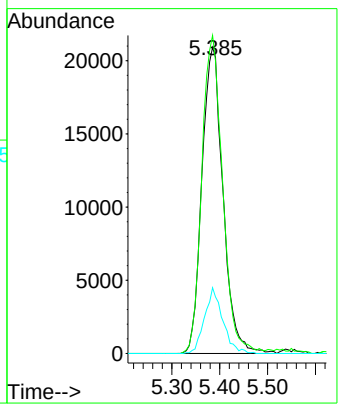


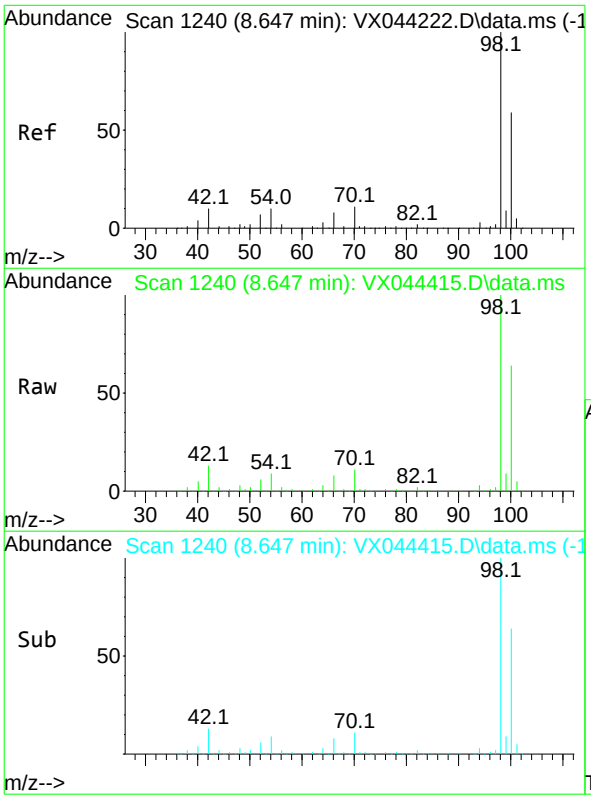
#35
Dibromofluoromethane
Concen: 46.480 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044415.D
Acq: 19 Dec 2024 05:41

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion:113 Resp: 63884

Ion	Ratio	Lower	Upper
113	100		
111	102.5	80.4	120.6
192	18.6	13.3	19.9

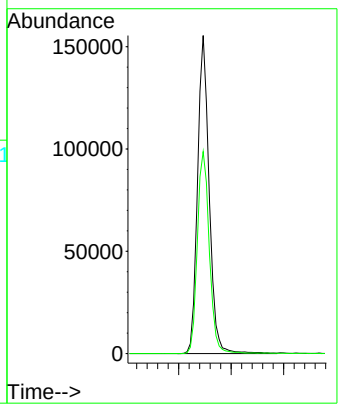


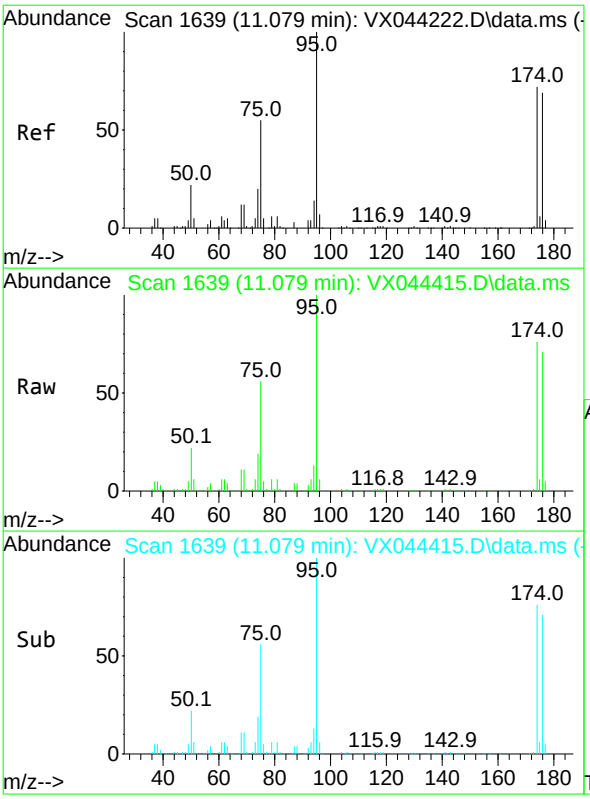


#50
Toluene-d8
Concen: 51.502 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044415.D
Acq: 19 Dec 2024 05:41

Tgt Ion: 98 Resp: 238815

Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.5	77.3



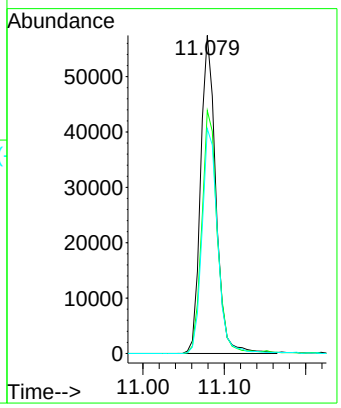


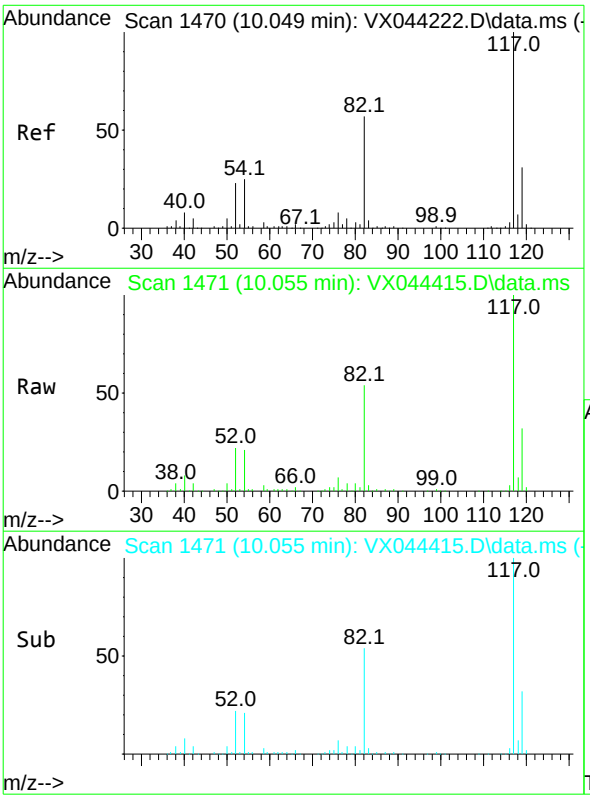
#62
4-Bromofluorobenzene
Concen: 46.235 ug/l
RT: 11.079 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044415.D
Acq: 19 Dec 2024 05:41

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion: 95 Resp: 74913

Ion	Ratio	Lower	Upper
95	100		
174	77.0	0.0	145.8
176	72.3	0.0	137.8

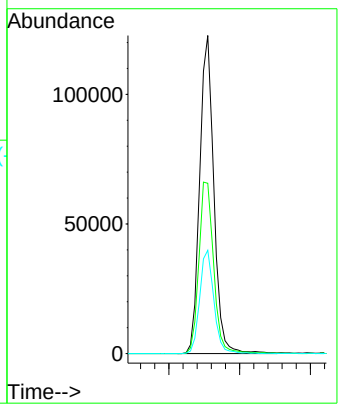


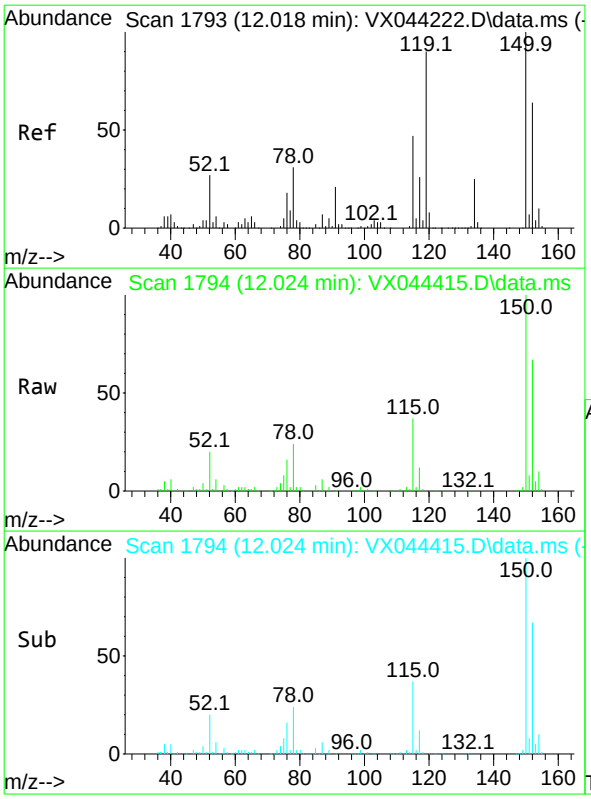


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044415.D
Acq: 19 Dec 2024 05:41

Tgt Ion:117 Resp: 170843

Ion	Ratio	Lower	Upper
117	100		
82	53.6	45.8	68.8
119	32.5	25.0	37.4



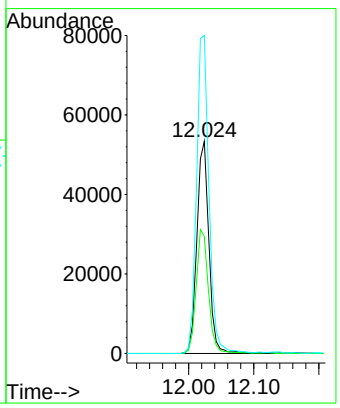


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX044415.D
Acq: 19 Dec 2024 05:41

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion:152 Resp: 68420

Ion	Ratio	Lower	Upper
152	100		
115	59.7	44.5	133.3
150	154.5	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW8-MW01D2-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-24	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044490.D	1		12/23/24 19:03	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	UQ	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW8-MW01D2-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-24	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044490.D	1		12/23/24 19:03	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	UQ	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.5		81 - 118		87%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	54.4		89 - 112		109%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	135000	5.544				
540-36-3	1,4-Difluorobenzene	237000	6.757				
3114-55-4	Chlorobenzene-d5	213000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	94100	12.018				

Raw Data: **VX044490.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW8-MW01D2-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-24	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044490.D	1		12/23/24 19:03	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044490.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044490.D
Acq On : 23 Dec 2024 19:03
Operator : JC/MD
Sample : P5317-24
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D2-20241217

Quant Time: Dec 23 22:15:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	134770	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	236910	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	213239	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	94135	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	102799	43.504	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 87.000%			
35) Dibromofluoromethane	5.379	113	81825	49.868	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.740%			
50) Toluene-d8	8.647	98	301047	54.383	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.760%			
62) 4-Bromofluorobenzene	11.079	95	99546	51.464	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.920%			
Target Compounds						Qvalue
16) Acetone	2.386	43	813	0.844	ug/l #	80

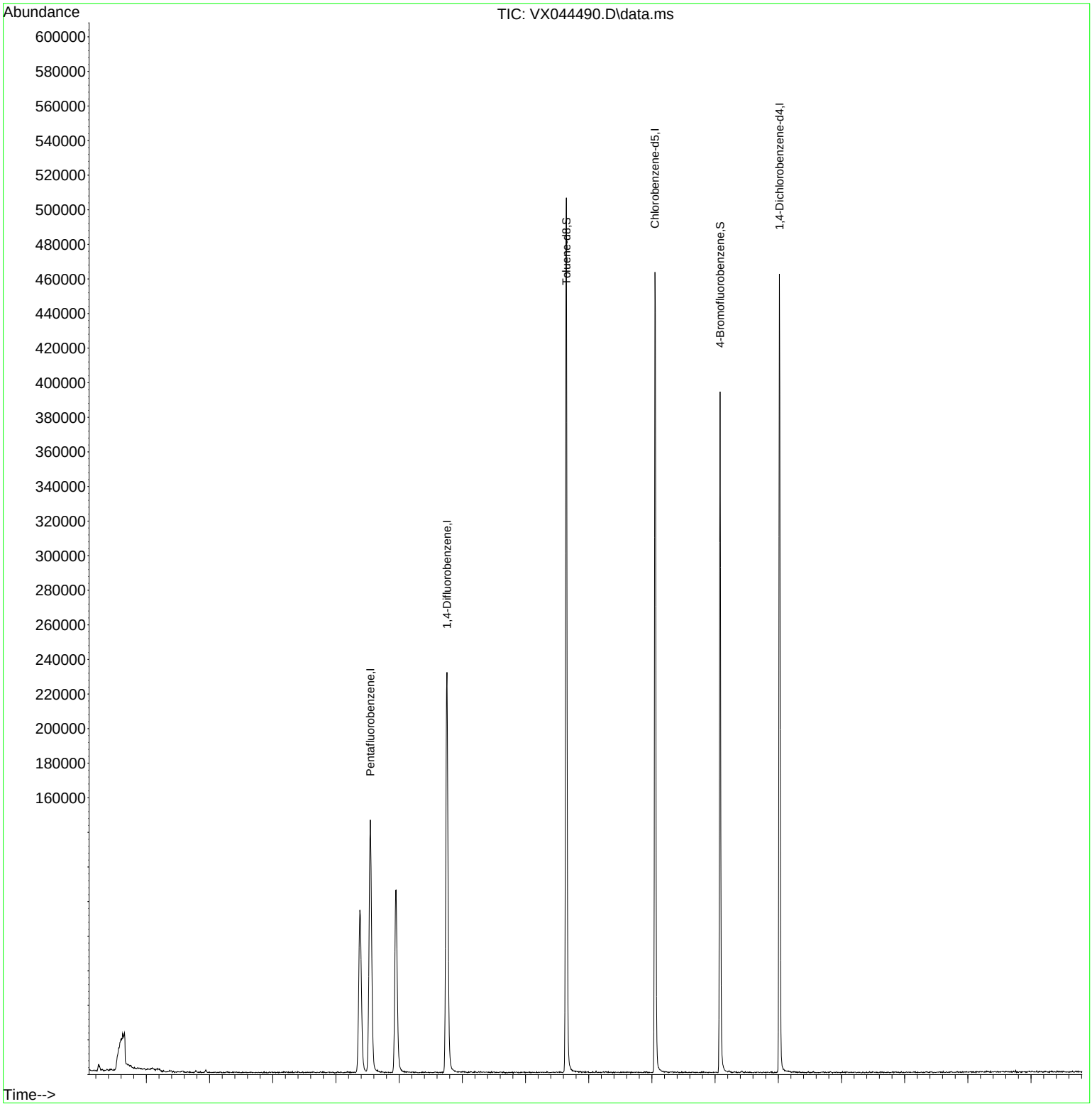
(#) = qualifier out of range (m) = manual integration (+) = signals summed

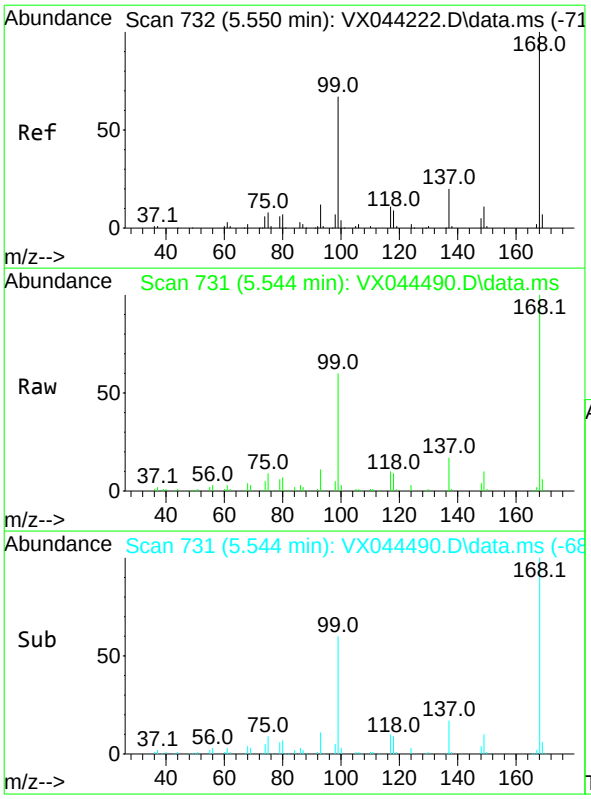
Sample Results: **VX044490.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044490.D
Acq On : 23 Dec 2024 19:03
Operator : JC/MD
Sample : P5317-24
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D2-20241217

Quant Time: Dec 23 22:15:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



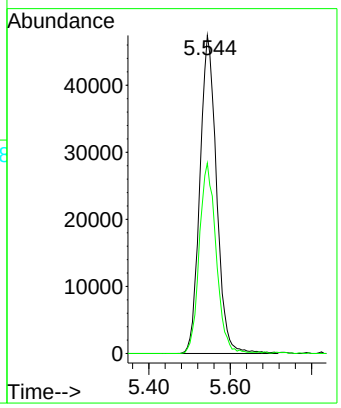


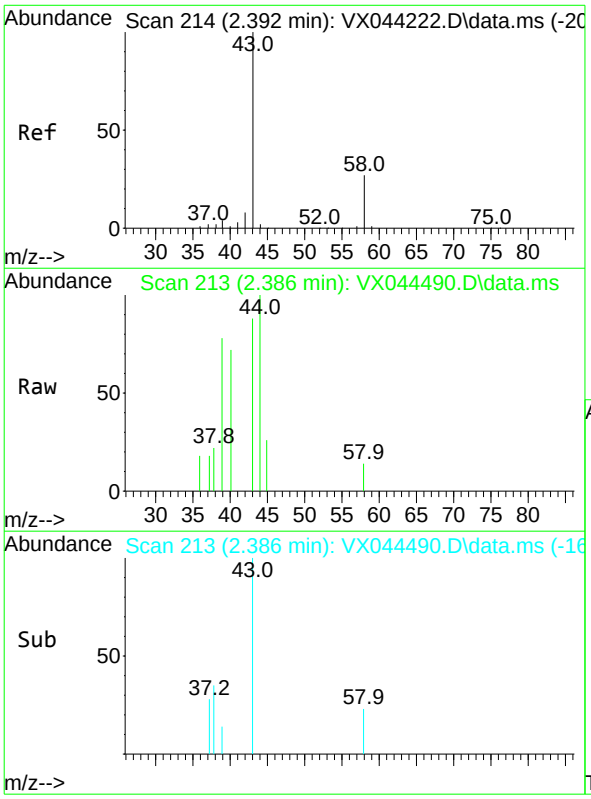
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044490.D
Acq: 23 Dec 2024 19:03

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D2-20241217

Tgt Ion:168 Resp: 134770

Ion	Ratio	Lower	Upper
168	100		
99	59.9	53.4	80.0

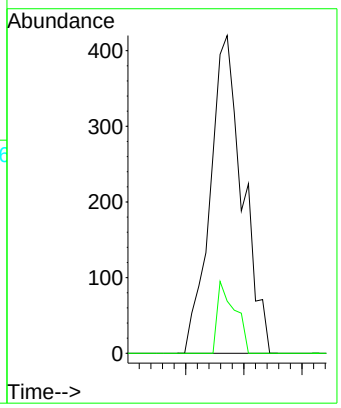


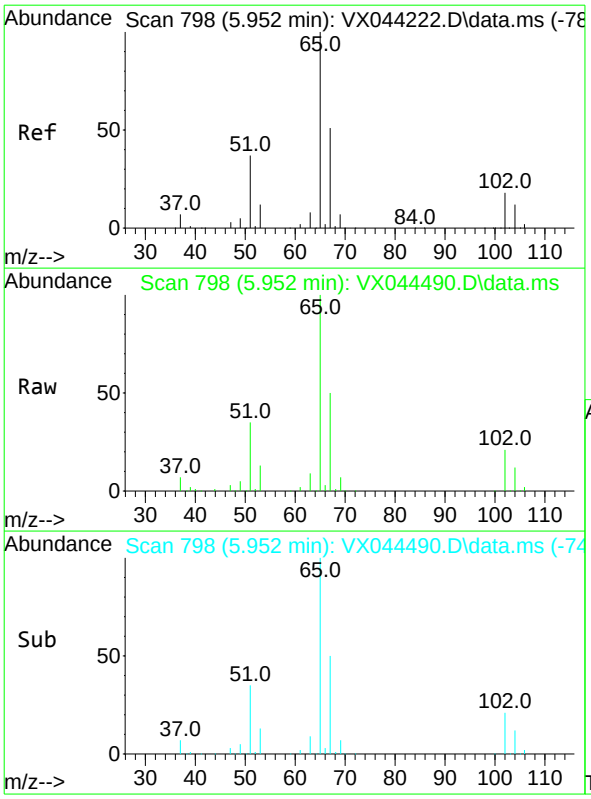


#16
Acetone
Concen: 0.844 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044490.D
Acq: 23 Dec 2024 19:03

Tgt Ion: 43 Resp: 813

Ion	Ratio	Lower	Upper
43	100		
58	16.4	21.6	32.4#



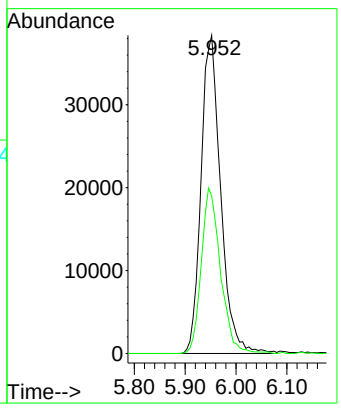


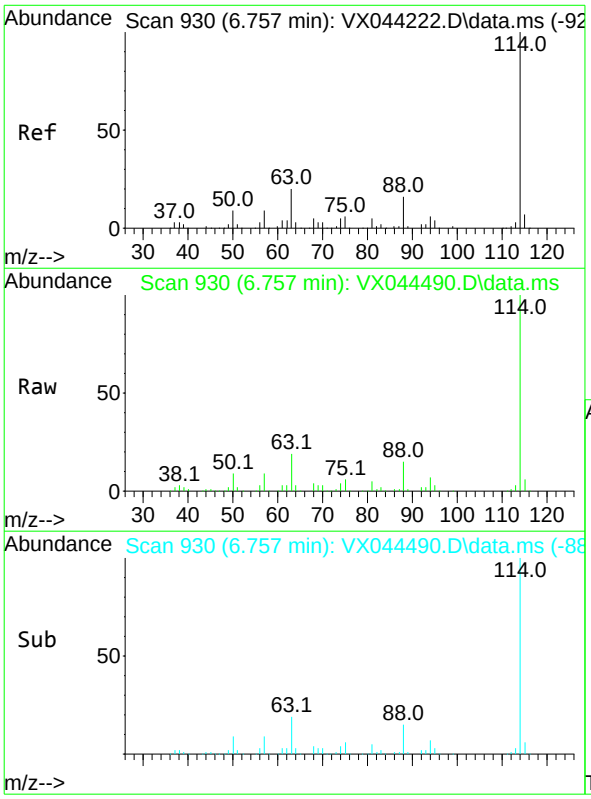
#33
1,2-Dichloroethane-d4
Concen: 43.504 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044490.D
Acq: 23 Dec 2024 19:03

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D2-20241217

Tgt Ion: 65 Resp: 102799

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	101.6

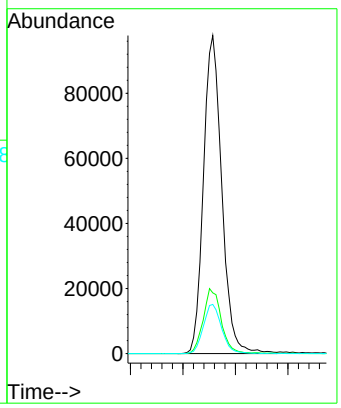


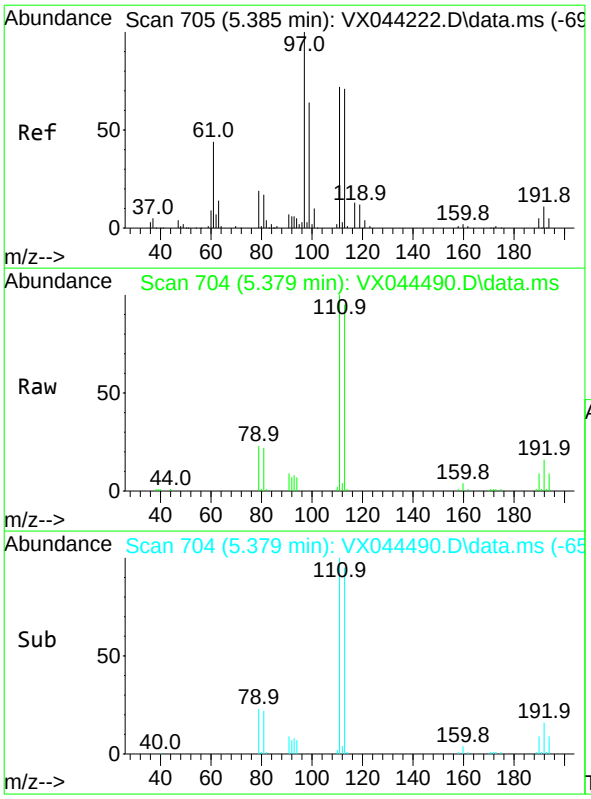


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044490.D
Acq: 23 Dec 2024 19:03

Tgt Ion:114 Resp: 236910

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	40.6
88	15.5	0.0	31.8



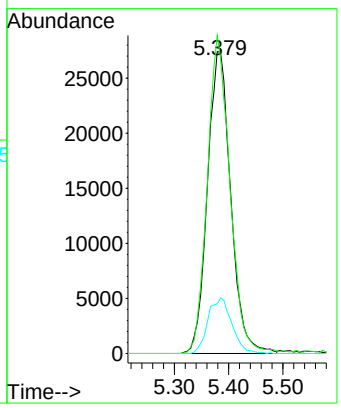


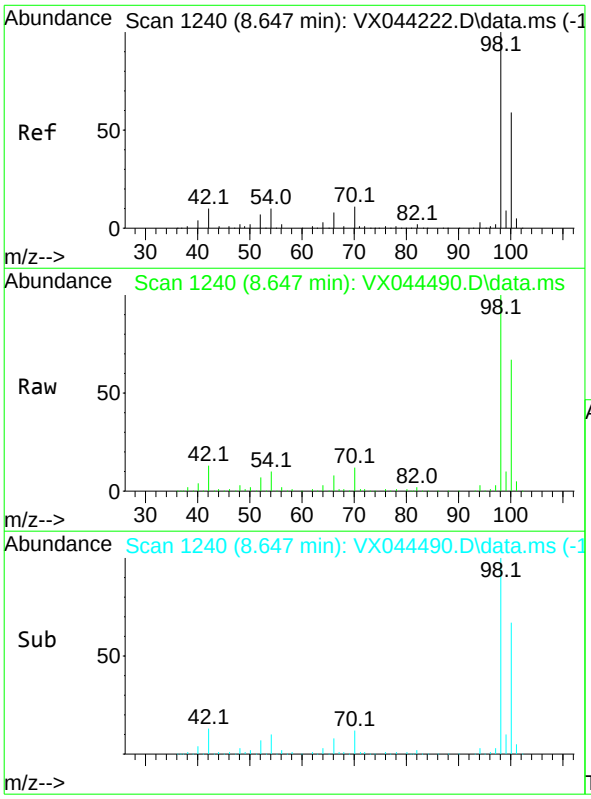
#35
Dibromofluoromethane
Concen: 49.868 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044490.D
Acq: 23 Dec 2024 19:03

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D2-20241217

Tgt Ion:113 Resp: 81825

Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.4	120.6
192	18.8	13.3	19.9

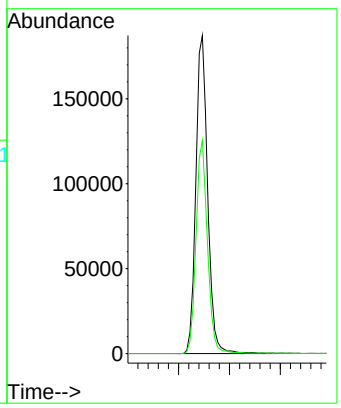


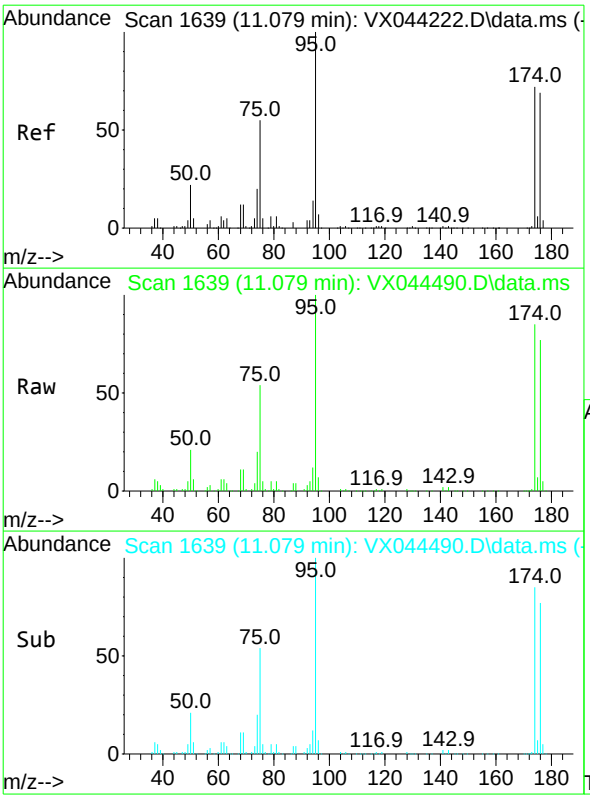


#50
Toluene-d8
Concen: 54.383 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044490.D
Acq: 23 Dec 2024 19:03

Tgt Ion: 98 Resp: 301047

Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.5	77.3



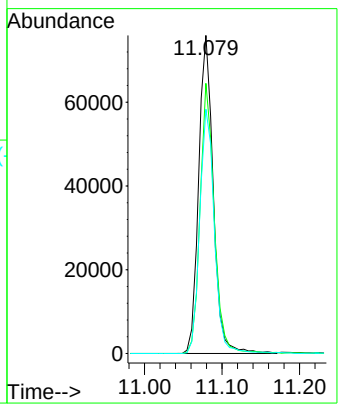


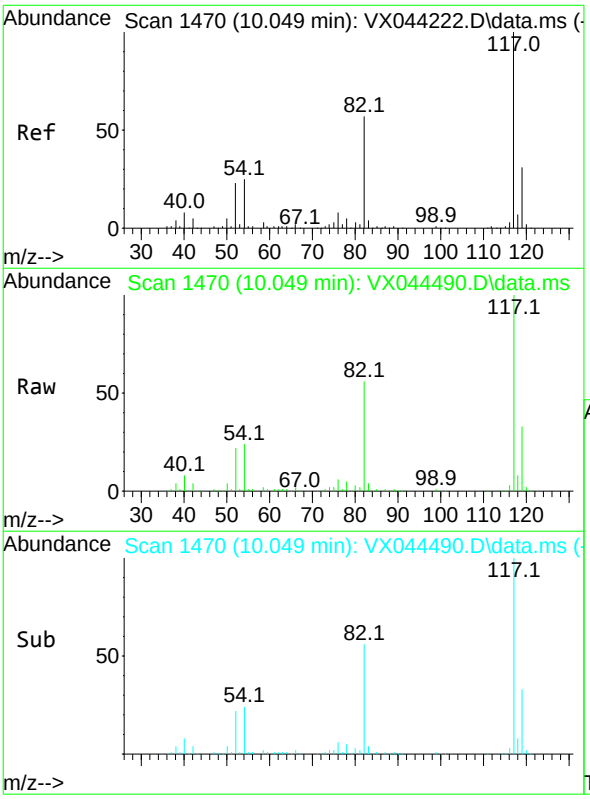
#62
4-Bromofluorobenzene
Concen: 51.464 ug/l
RT: 11.079 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044490.D
Acq: 23 Dec 2024 19:03

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D2-20241217

Tgt Ion: 95 Resp: 99546

Ion	Ratio	Lower	Upper
95	100		
174	82.3	0.0	145.8
176	76.9	0.0	137.8

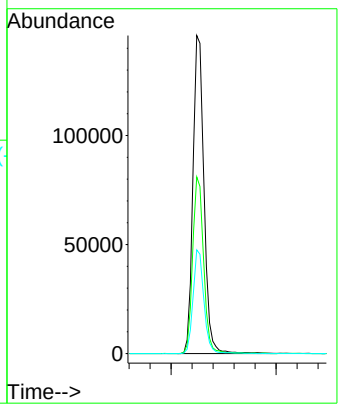


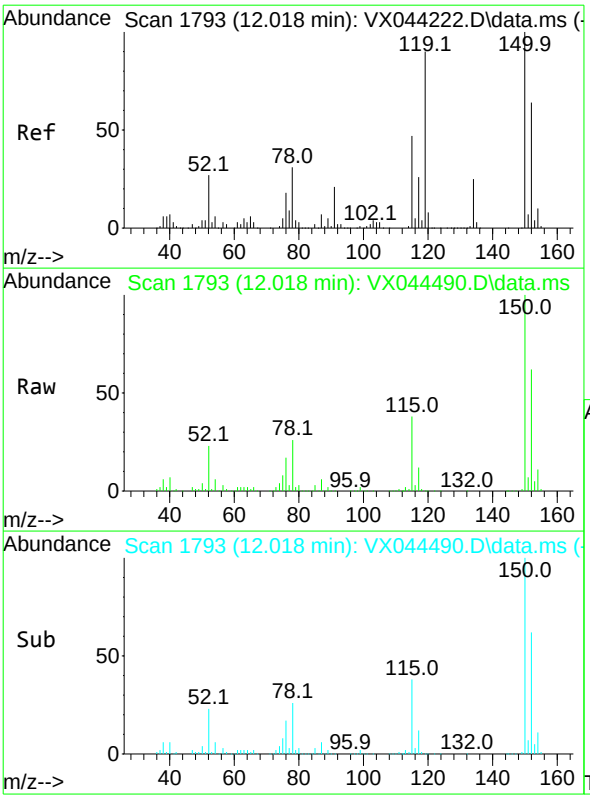


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX044490.D
Acq: 23 Dec 2024 19:03

Tgt Ion:117 Resp: 213239

Ion	Ratio	Lower	Upper
117	100		
82	55.6	45.8	68.8
119	32.6	25.0	37.4



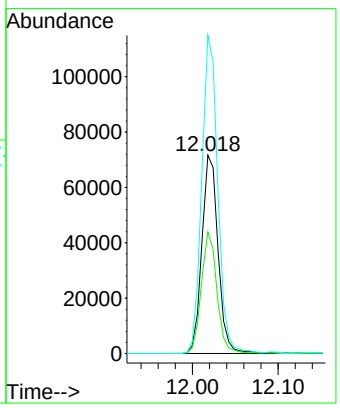


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044490.D
Acq: 23 Dec 2024 19:03

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D2-20241217

Tgt Ion:152 Resp: 94135

Ion	Ratio	Lower	Upper
152	100		
115	59.5	44.5	133.3
150	158.6	0.0	353.8



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW8-MW01D3-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-25	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044491.D	1		12/23/24 19:26	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	UQ	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Raw Data: **VX044491.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW8-MW01D3-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-25	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044491.D	1		12/23/24 19:26	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	UQ	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.5		81 - 118		87%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	54.8		89 - 112		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	132000	5.55				
540-36-3	1,4-Difluorobenzene	232000	6.757				
3114-55-4	Chlorobenzene-d5	213000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	89200	12.018				

Raw Data: **VX044491.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RW8-MW01D3-20241217	SDG No.:	P5317
Lab Sample ID:	P5317-25	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044491.D	1		12/23/24 19:26	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044491.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044491.D
Acq On : 23 Dec 2024 19:26
Operator : JC/MD
Sample : P5317-25
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D3-20241217

Quant Time: Dec 23 22:16:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	131619	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	231647	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	212925	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	89186	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	100345	43.482	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 86.960%			
35) Dibromofluoromethane	5.379	113	78978	49.227	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.460%			
50) Toluene-d8	8.647	98	296413	54.763	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 109.520%			
62) 4-Bromofluorobenzene	11.079	95	96164	50.845	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.680%			
Target Compounds						Qvalue
16) Acetone	2.380	43	710	0.755	ug/l	92
29) Tetrahydrofuran	5.019	42	3906m	4.550	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VX044491.D**

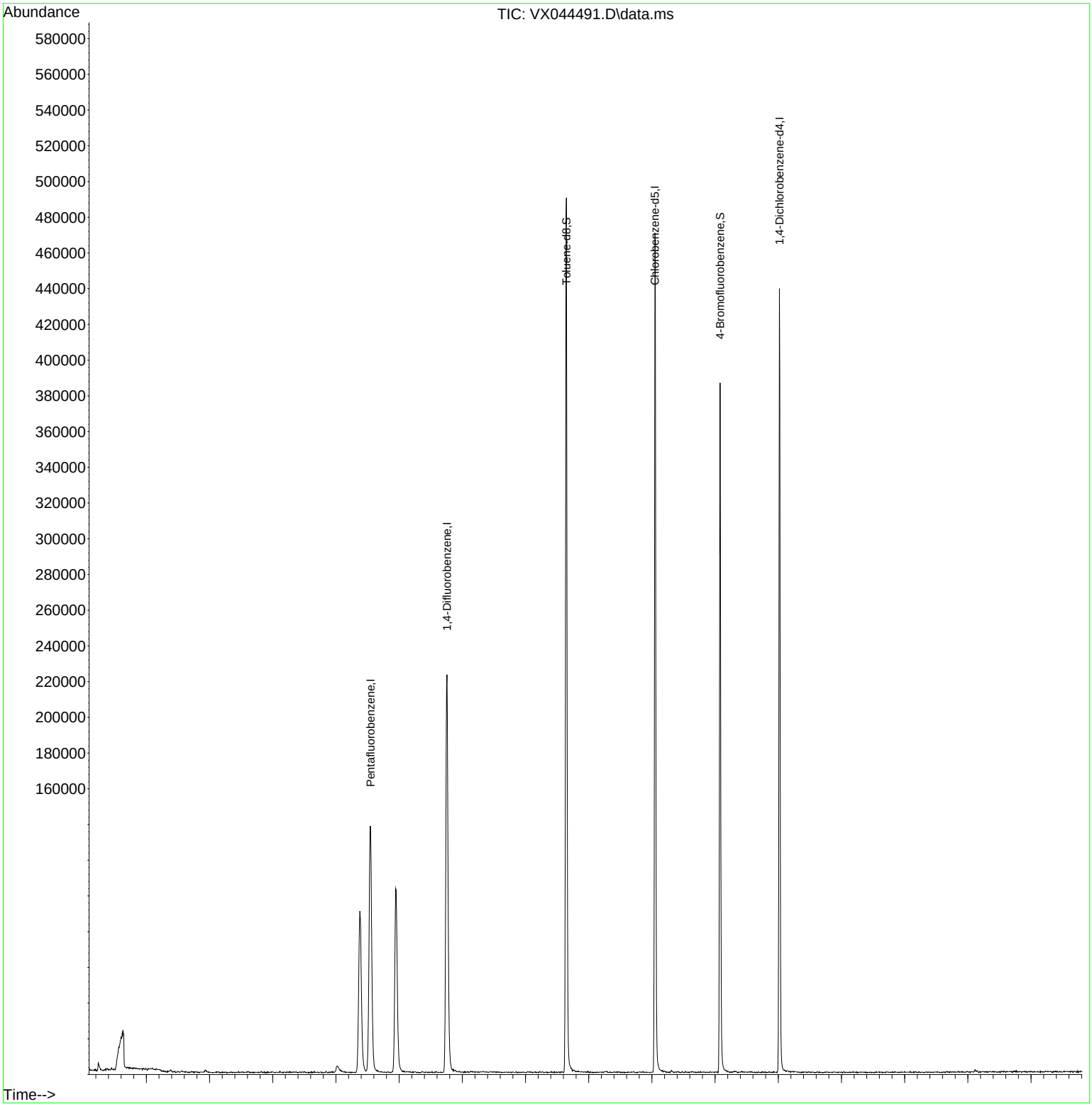
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044491.D
Acq On : 23 Dec 2024 19:26
Operator : JC/MD
Sample : P5317-25
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

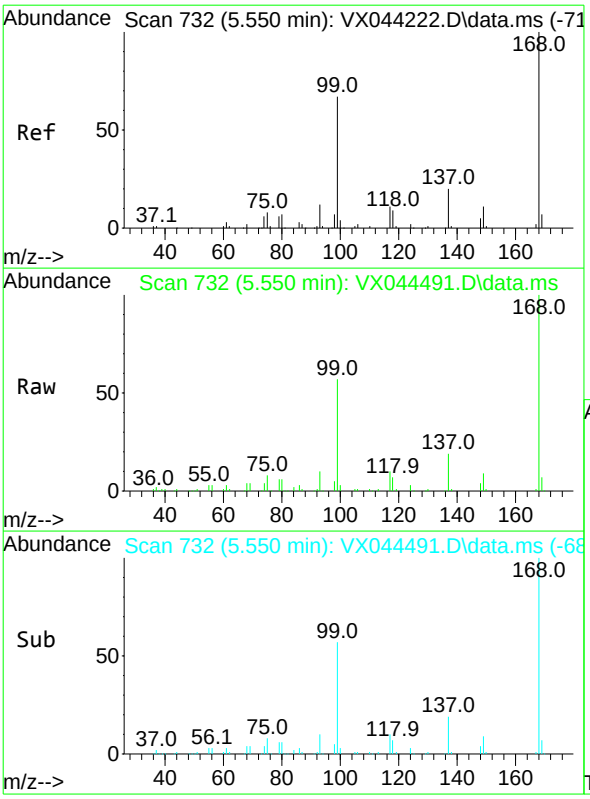
Quant Time: Dec 23 22:16:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D3-20241217

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044491.D
Acq: 23 Dec 2024 19:26

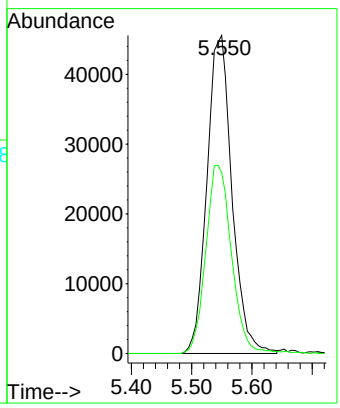
Tgt Ion:168 Resp: 131619

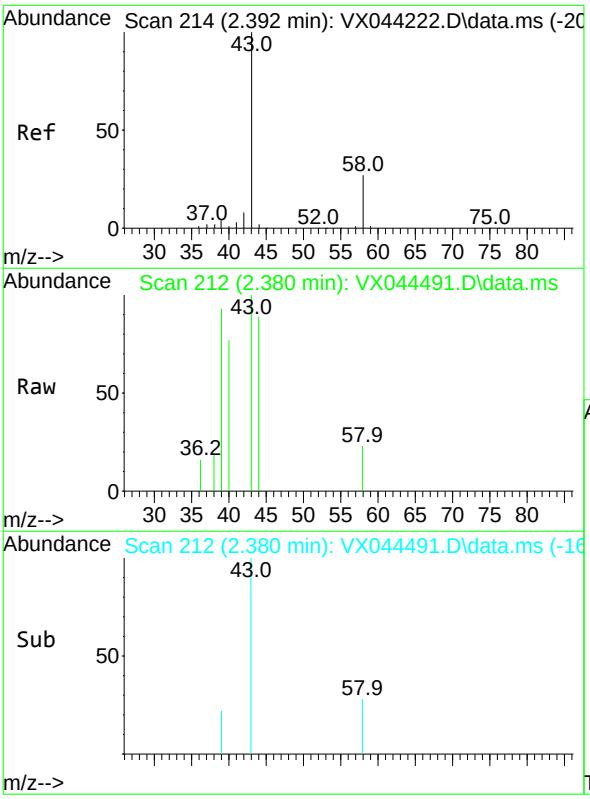
Ion	Ratio	Lower	Upper
168	100		
99	56.9	53.4	80.0

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D3-20241217

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

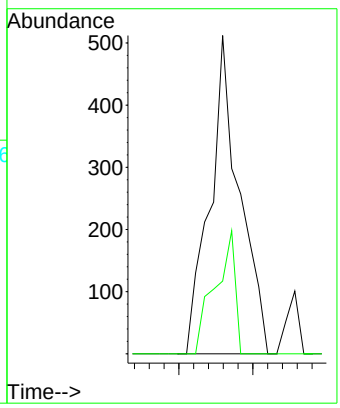


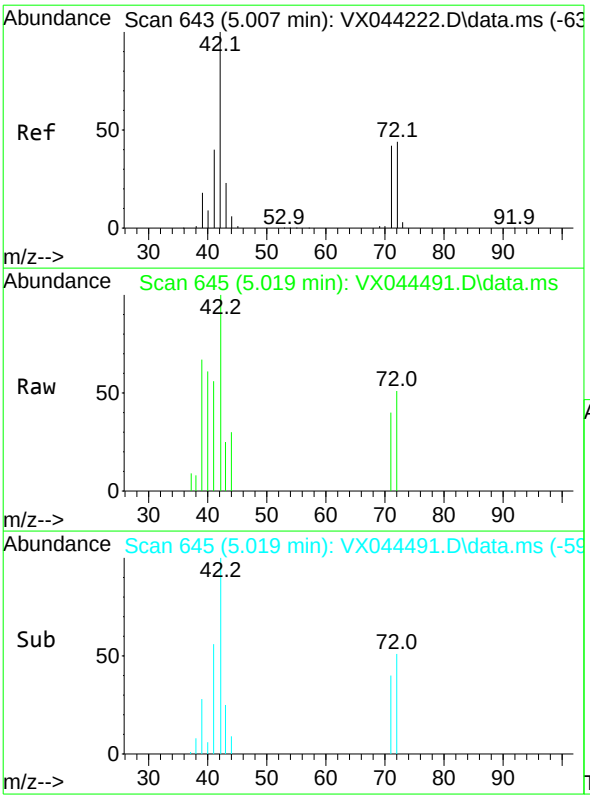


#16
Acetone
Concen: 0.755 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.012 min
Lab File: VX044491.D
Acq: 23 Dec 2024 19:26

Tgt Ion: 43 Resp: 710

Ion	Ratio	Lower	Upper
43	100		
58	22.9	21.6	32.4





#29
Tetrahydrofuran
Concen: 4.550 ug/l m
RT: 5.019 min Scan# 64
Delta R.T. 0.012 min
Lab File: VX044491.D
Acq: 23 Dec 2024 19:26

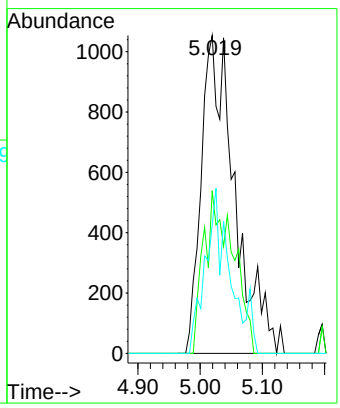
Tgt Ion: 42 Resp: 3906

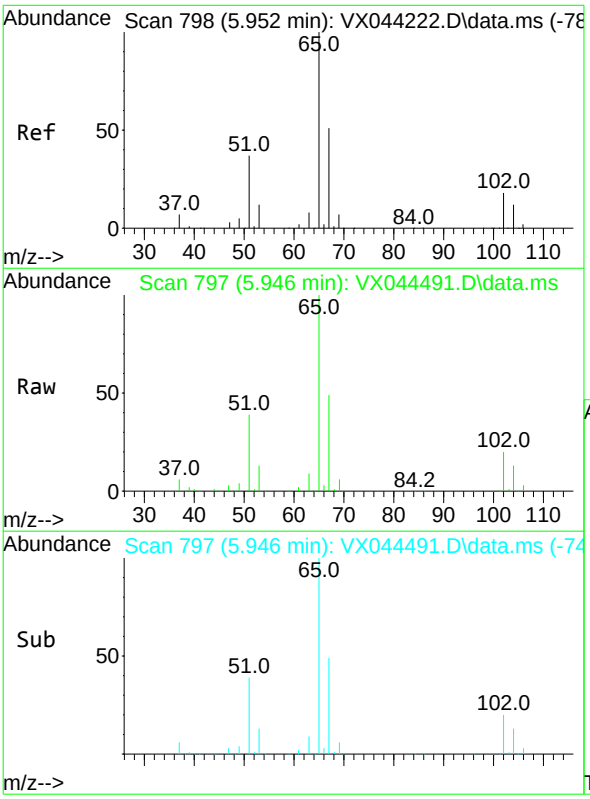
Ion	Ratio	Lower	Upper
42	100		
72	45.4	37.0	55.6
71	35.0	33.6	50.4

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D3-20241217

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

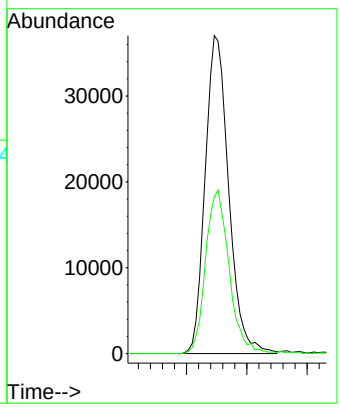


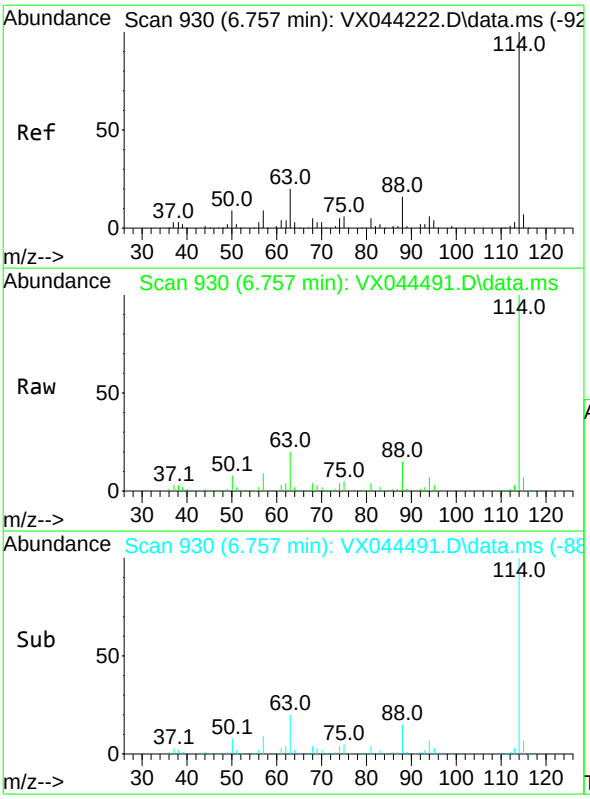


#33
1,2-Dichloroethane-d4
Concen: 43.482 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX044491.D
Acq: 23 Dec 2024 19:26

Tgt Ion: 65 Resp: 100345

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	101.6





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044491.D
Acq: 23 Dec 2024 19:26

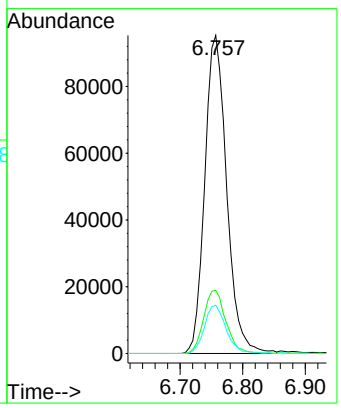
Tgt Ion:114 Resp: 231647

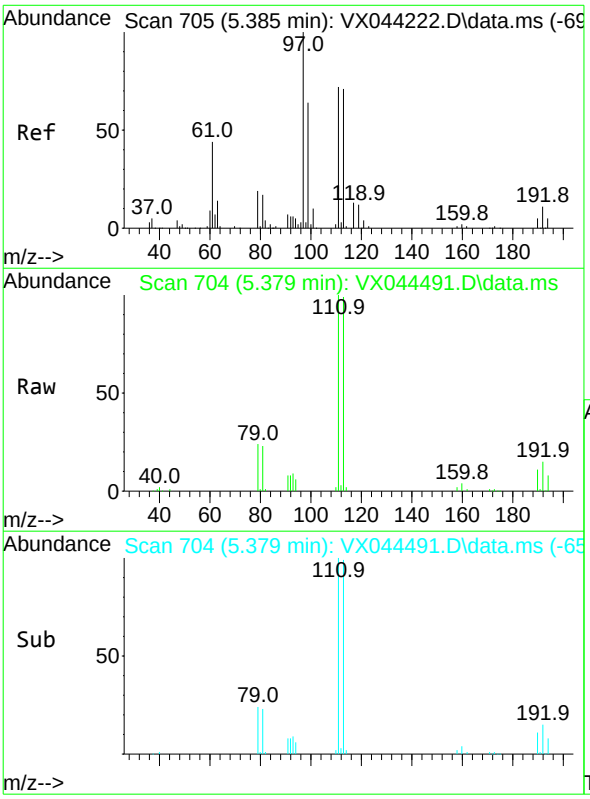
Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	40.6
88	15.2	0.0	31.8

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D3-20241217

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

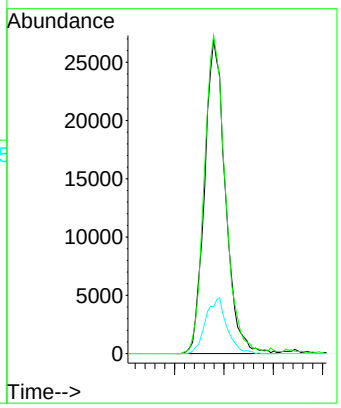


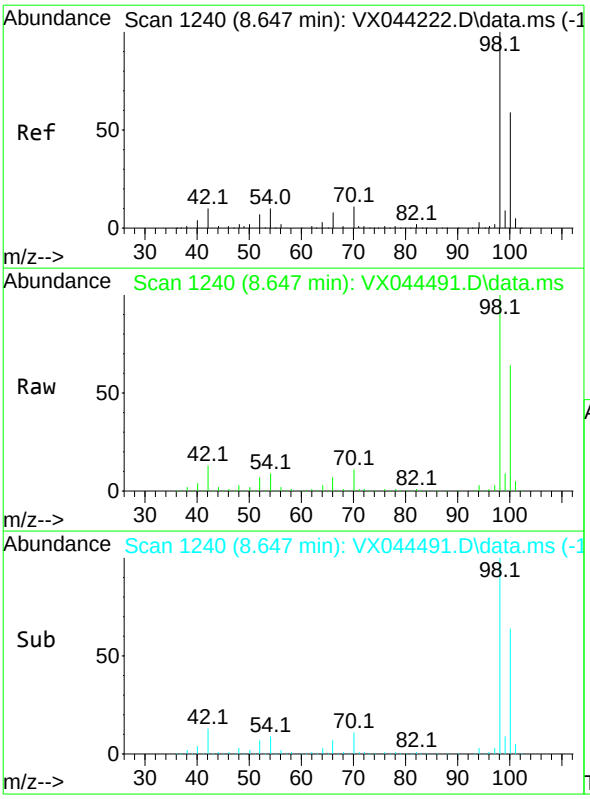


#35
Dibromofluoromethane
Concen: 49.227 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX044491.D
Acq: 23 Dec 2024 19:26

Tgt Ion:113 Resp: 78978

Ion	Ratio	Lower	Upper
113	100		
111	102.3	80.4	120.6
192	18.0	13.3	19.9





#50
Toluene-d8
Concen: 54.763 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044491.D
Acq: 23 Dec 2024 19:26

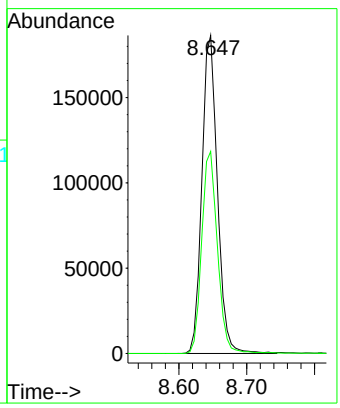
Tgt Ion: 98 Resp: 296413

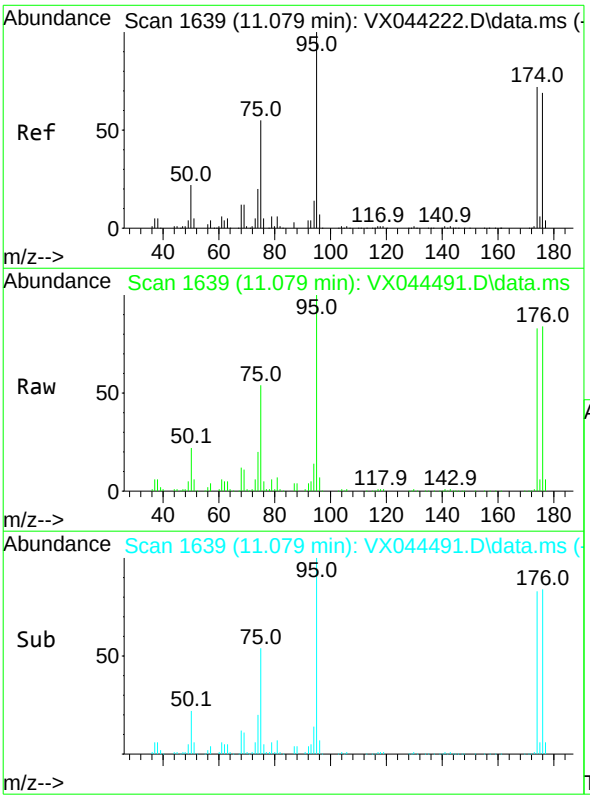
Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.5	77.3

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D3-20241217

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

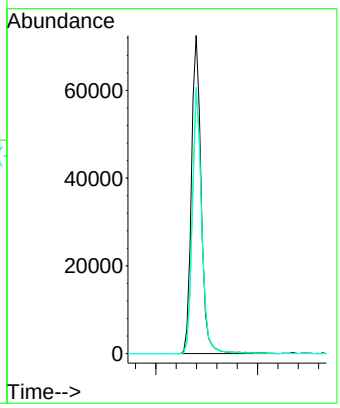


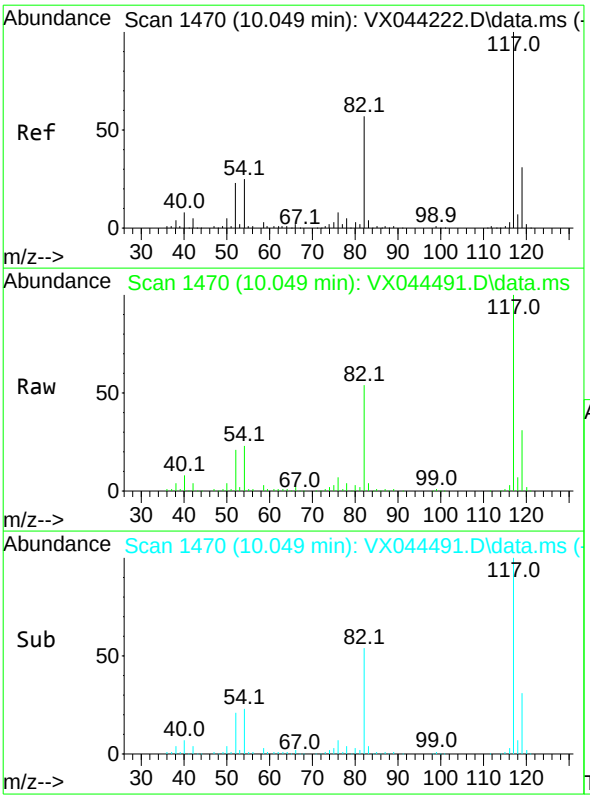


#62
4-Bromofluorobenzene
Concen: 50.845 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044491.D
Acq: 23 Dec 2024 19:26

Tgt Ion: 95 Resp: 96164

Ion	Ratio	Lower	Upper
95	100		
174	80.9	0.0	145.8
176	79.2	0.0	137.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044491.D
Acq: 23 Dec 2024 19:26

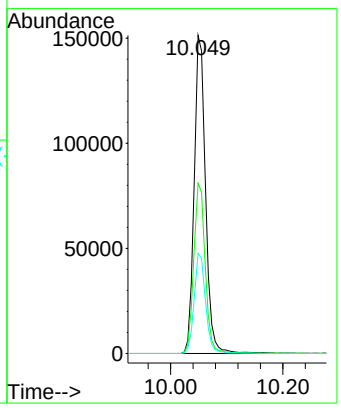
Tgt Ion:117 Resp: 212925

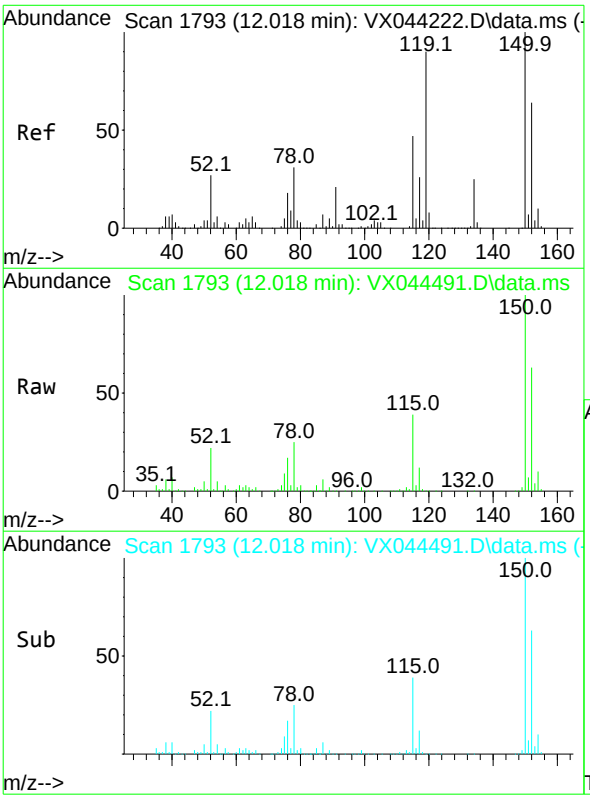
Ion	Ratio	Lower	Upper
117	100		
82	53.6	45.8	68.8
119	31.4	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
RW8-MW01D3-20241217

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

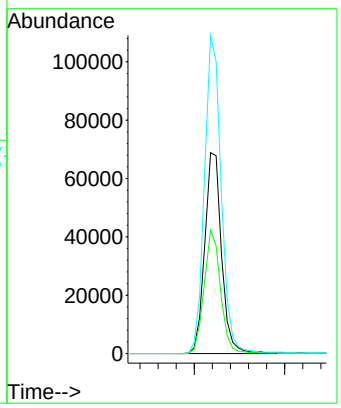




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044491.D
Acq: 23 Dec 2024 19:26

Tgt Ion:152 Resp: 89186

Ion	Ratio	Lower	Upper
152	100		
115	60.0	44.5	133.3
150	157.0	0.0	353.8



CALIBRATION SUMMARY

Raw Data

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX044219.D RRF005 = VX044220.D RRF020 = VX044221.D
RRF050 = VX044222.D RRF100 = VX044223.D RRF150 = VX044224.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.877	0.749	0.721	0.788	0.745	0.759	0.773	7.2
Chloromethane	0.743	0.747	0.735	0.756	0.715	0.740	0.739	1.8
Vinyl Chloride	0.805	0.790	0.782	0.786	0.722	0.737	0.770	4.3
Bromomethane		0.590	0.513	0.551	0.529	0.548	0.546	5.3
Chloroethane	0.464	0.520	0.515	0.532	0.422	0.426	0.480	10.2
Trichlorofluoromethane	1.582	1.519	1.514	1.541	1.478	1.414	1.508	3.8
1,1,2-Trichlorotrifluoroethane	0.633	0.628	0.592	0.615	0.573	0.620	0.610	3.8
1,1-Dichloroethene	0.512	0.560	0.544	0.596	0.554	0.596	0.560	5.7
Acetone	0.359	0.353	0.331	0.381	0.348	0.372	0.357	5
Carbon Disulfide	0.841	0.872	0.937	1.150	1.230	1.362	1.065	20
Methyl tert-butyl Ether	2.054	2.188	2.127	2.305	2.170	2.279	2.187	4.3
Methyl Acetate	0.965	0.889	0.883	0.953	0.888	0.951	0.922	4.2
Methylene Chloride	0.679	0.678	0.666	0.689	0.648	0.668	0.671	2.1
trans-1,2-Dichloroethene	0.600	0.556	0.577	0.619	0.595	0.626	0.596	4.4
1,1-Dichloroethane	1.071	1.173	1.154	1.244	1.171	1.218	1.172	5.1
Cyclohexane		0.931	0.963	0.977	0.922	0.938	0.946	2.4
2-Butanone	0.449	0.491	0.510	0.548	0.509	0.541	0.508	7.1
Carbon Tetrachloride	0.484	0.443	0.432	0.501	0.502	0.529	0.482	7.8
cis-1,2-Dichloroethene	0.809	0.737	0.728	0.772	0.731	0.762	0.756	4.1
Bromochloromethane	0.578	0.577	0.576	0.592	0.556	0.568	0.575	2.1
Chloroform	1.389	1.312	1.272	1.343	1.272	1.310	1.316	3.4
1,1,1-Trichloroethane	0.993	1.019	1.077	1.176	1.119	1.173	1.093	7.1
Methylcyclohexane	0.514	0.503	0.527	0.555	0.550	0.562	0.535	4.5
Benzene	1.353	1.353	1.332	1.410	1.353	1.353	1.359	1.9
1,2-Dichloroethane	0.554	0.557	0.545	0.584	0.556	0.564	0.560	2.4
Trichloroethene	0.356	0.325	0.325	0.349	0.337	0.342	0.339	3.8
1,2-Dichloropropane	0.368	0.345	0.330	0.357	0.341	0.342	0.347	3.8
Bromodichloromethane	0.380	0.411	0.436	0.508	0.518	0.538	0.465	13.9
4-Methyl-2-Pentanone	0.506	0.551	0.547	0.590	0.561	0.582	0.556	5.4
Toluene	0.908	0.830	0.816	0.877	0.841	0.849	0.853	4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX044219.D RRF005 = VX044220.D RRF020 = VX044221.D
RRF050 = VX044222.D RRF100 = VX044223.D RRF150 = VX044224.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.338	0.357	0.439	0.514	0.526	0.558	0.455	20.3
cis-1,3-Dichloropropene	0.404	0.441	0.488	0.567	0.558	0.583	0.507	14.6
1,1,2-Trichloroethane	0.337	0.332	0.335	0.358	0.334	0.340	0.339	2.8
2-Hexanone	0.323	0.386	0.408	0.439	0.420	0.438	0.403	10.8
Dibromochloromethane	0.254	0.248	0.306	0.370	0.378	0.398	0.326	20.2
1,2-Dibromoethane	0.303	0.322	0.344	0.369	0.364	0.370	0.345	8.1
Tetrachloroethene	0.359	0.354	0.317	0.321	0.312	0.327	0.332	6
Chlorobenzene	1.130	1.068	1.039	1.088	1.036	1.067	1.071	3.3
Ethyl Benzene	1.853	1.806	1.816	1.927	1.831	1.875	1.851	2.4
m/p-Xylenes	0.653	0.660	0.665	0.707	0.683	0.707	0.679	3.5
o-Xylene	0.686	0.683	0.685	0.703	0.671	0.697	0.687	1.6
Styrene	1.007	1.019	1.099	1.162	1.148	1.177	1.102	6.7
Bromoform	0.137	0.173	0.194	0.247	0.269	0.297	0.219	28
Isopropylbenzene	3.665	3.976	3.920	3.912	3.747	3.747	3.828	3.2
1,1,2,2-Tetrachloroethane	1.410	1.350	1.332	1.336	1.256	1.293	1.329	3.9
1,3-Dichlorobenzene	1.519	1.634	1.640	1.683	1.625	1.628	1.621	3.3
1,4-Dichlorobenzene	1.811	1.640	1.632	1.672	1.621	1.623	1.667	4.4
1,2-Dichlorobenzene	1.745	1.666	1.668	1.726	1.654	1.643	1.684	2.5
1,2-Dibromo-3-Chloropropane	0.222	0.226	0.241	0.273	0.279	0.306	0.258	13
1,2,4-Trichlorobenzene	0.770	0.827	0.891	0.978	1.013	1.058	0.923	12.2
1,2,3-Trichlorobenzene	0.854	0.885	0.984	1.019	1.055	1.077	0.979	9.3
1,2-Dichloroethane-d4		0.934	0.778	0.921	0.862	0.888	0.877	7.1
Dibromofluoromethane		0.353	0.298	0.367	0.360	0.354	0.346	8
Toluene-d8		1.148	1.010	1.251	1.229	1.203	1.168	8.3
4-Bromofluorobenzene		0.390	0.351	0.442	0.432	0.426	0.408	9.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Response Factor Report MSVOA_X

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X121124W.M
Title : SW846 8260
Last Update : Thu Dec 12 04:28:14 2024
Response Via : Initial Calibration

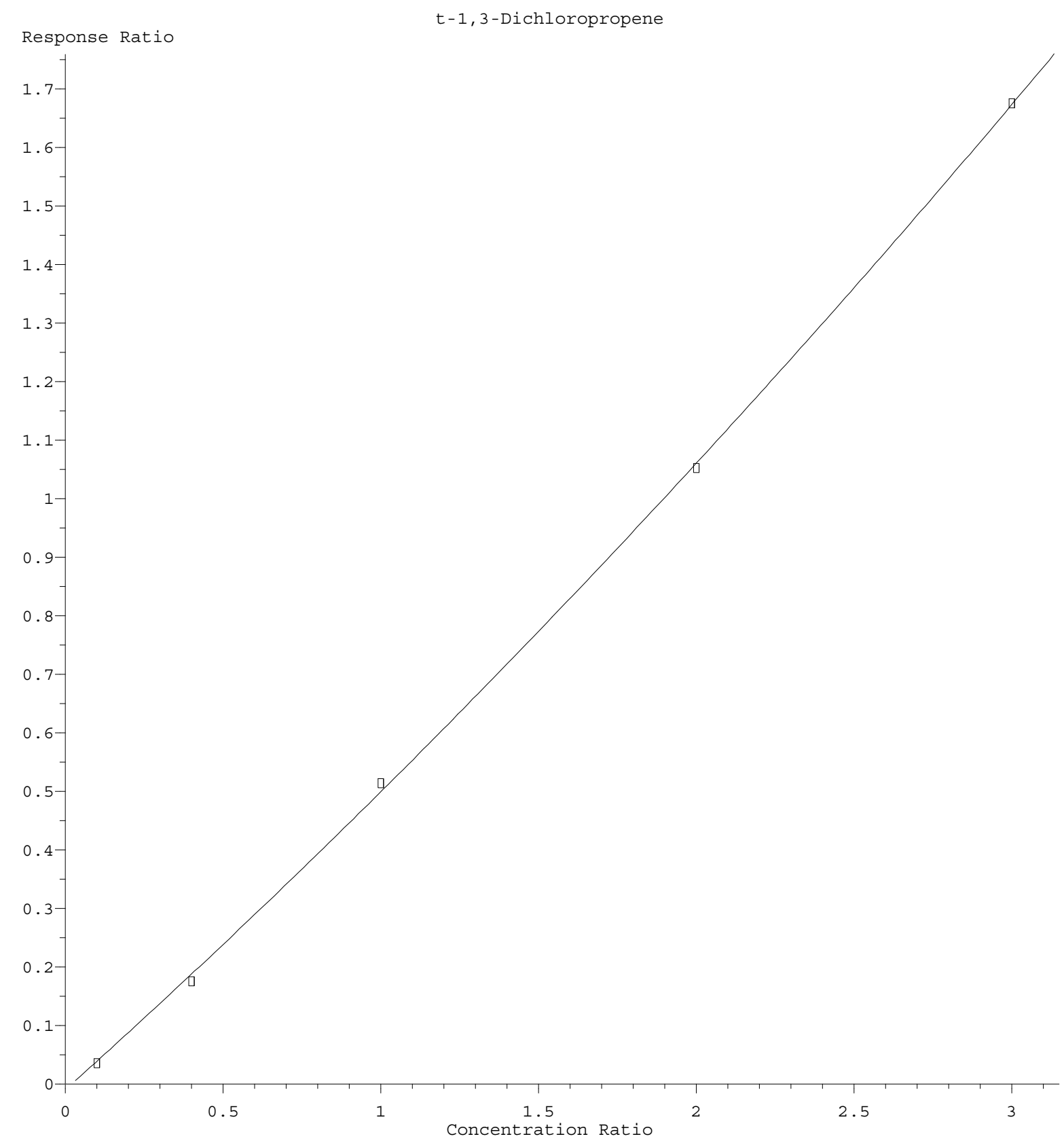
Calibration Files
1 =VX044219.D 5 =VX044220.D 20 =VX044221.D 50 =VX044222.D 100 =VX044223.D 150 =VX044224.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.877	0.749	0.721	0.788	0.745	0.759	0.773	7.19
3)	P	Chloromethane	0.743	0.747	0.735	0.756	0.715	0.740	0.739	1.83
4)	C	Vinyl Chloride	0.805	0.790	0.782	0.786	0.722	0.737	0.770	4.31#
5)	T	Bromomethane		0.590	0.513	0.551	0.529	0.548	0.546	5.26
6)	T	Chloroethane	0.464	0.520	0.515	0.532	0.422	0.426	0.480	10.21
7)	T	Trichlorofluor...	1.582	1.519	1.514	1.541	1.478	1.414	1.508	3.80
8)	T	Diethyl Ether	0.582	0.516	0.481	0.513	0.477	0.520	0.515	7.30
9)	T	1,1,2-Trichlor...	0.633	0.628	0.592	0.615	0.573	0.620	0.610	3.76
10)	T	Methyl Iodide		0.793	0.796	0.847	0.782	0.803	0.804	3.13
11)	T	Tert butyl alc...		0.103	0.111	0.120	0.133	0.151	0.124	15.38
12)	CM	1,1-Dichloroet...	0.512	0.560	0.544	0.596	0.554	0.596	0.560	5.74#
13)	T	Acrolein		0.179	0.163	0.185	0.174	0.193	0.179	6.28
14)	T	Allyl chloride	0.899	0.895	0.878	1.010	0.940	0.980	0.933	5.63
15)	T	Acrylonitrile	0.319	0.333	0.332	0.358	0.343	0.367	0.342	5.25
16)	T	Acetone	0.359	0.353	0.331	0.381	0.348	0.372	0.357	4.99
17)	T	Carbon Disulfide	0.841	0.872	0.937	1.150	1.230	1.362	1.065	19.98
18)	T	Methyl Acetate	0.965	0.889	0.883	0.953	0.888	0.951	0.922	4.17
19)	T	Methyl tert-bu...	2.054	2.188	2.127	2.305	2.170	2.279	2.187	4.28
20)	T	Methylene Chlo...	0.679	0.678	0.666	0.689	0.648	0.668	0.671	2.12
21)	T	trans-1,2-Dich...	0.600	0.556	0.577	0.619	0.595	0.626	0.596	4.37
22)	T	Diisopropyl ether	2.040	2.114	2.092	2.172	2.070	2.123	2.102	2.17
23)	T	Vinyl Acetate	1.238	1.571	1.732	1.912	1.842	1.958	1.709	15.75
24)	P	1,1-Dichloroet...	1.071	1.173	1.154	1.244	1.171	1.218	1.172	5.10
25)	T	2-Butanone	0.449	0.491	0.510	0.548	0.509	0.541	0.508	7.08
26)	T	2,2-Dichloropr...	0.782	0.896	0.956	1.045	0.992	1.039	0.952	10.50
27)	T	cis-1,2-Dichlo...	0.809	0.737	0.728	0.772	0.731	0.762	0.756	4.11
28)	T	Bromochloromet...	0.578	0.577	0.576	0.592	0.556	0.568	0.575	2.07
29)	T	Tetrahydrofuran	0.293	0.348	0.321	0.337	0.317	0.340	0.326	6.17
30)	C	Chloroform	1.389	1.312	1.272	1.343	1.272	1.310	1.316	3.39#
31)	T	Cyclohexane		0.931	0.963	0.977	0.922	0.938	0.946	2.44
32)	T	1,1,1-Trichlor...	0.993	1.019	1.077	1.176	1.119	1.173	1.093	7.06
33)	S	1,2-Dichloroet...		0.934	0.778	0.921	0.862	0.888	0.877	7.09
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.353	0.298	0.367	0.360	0.354	0.346	7.95
36)	T	1,1-Dichloropr...	0.489	0.442	0.422	0.444	0.445	0.444	0.448	4.92
37)	T	Ethyl Acetate	0.536	0.512	0.551	0.581	0.565	0.574	0.553	4.68
38)	T	Carbon Tetrach...	0.484	0.443	0.432	0.501	0.502	0.529	0.482	7.77
39)	T	Methylcyclohexane	0.514	0.503	0.527	0.555	0.550	0.562	0.535	4.52
40)	TM	Benzene	1.353	1.353	1.332	1.410	1.353	1.353	1.359	1.93
41)	T	Methacrylonitrile	0.285	0.293	0.281	0.302	0.298	0.305	0.294	3.21
42)	TM	1,2-Dichloroet...	0.554	0.557	0.545	0.584	0.556	0.564	0.560	2.37
43)	T	Isopropyl Acetate	0.736	0.854	0.835	0.916	0.908	0.941	0.865	8.62
44)	TM	Trichloroethene	0.356	0.325	0.324	0.349	0.337	0.342	0.339	3.79
45)	C	1,2-Dichloropr...	0.368	0.345	0.330	0.357	0.341	0.342	0.347	3.81#
46)	T	Dibromomethane	0.247	0.267	0.259	0.286	0.276	0.281	0.269	5.53
47)	T	Bromodichlorom...	0.380	0.411	0.436	0.508	0.518	0.538	0.465	13.95
48)	T	Methyl methacr...	0.427	0.370	0.399	0.444	0.431	0.447	0.420	7.03
49)	T	1,4-Dioxane	0.005	0.007	0.007	0.008	0.008	0.008	0.007	15.81
50)	S	Toluene-d8		1.148	1.010	1.251	1.229	1.203	1.168	8.27
51)	T	4-Methyl-2-Pen...	0.506	0.551	0.547	0.590	0.561	0.582	0.556	5.37
52)	CM	Toluene	0.908	0.830	0.816	0.877	0.841	0.849	0.853	3.96#
53)	T	t-1,3-Dichloro...	0.338	0.357	0.439	0.514	0.526	0.558	0.455	20.32
54)	T	cis-1,3-Dichlo...	0.404	0.441	0.488	0.567	0.558	0.583	0.507	14.59
55)	T	1,1,2-Trichlor...	0.337	0.332	0.335	0.358	0.334	0.340	0.339	2.79

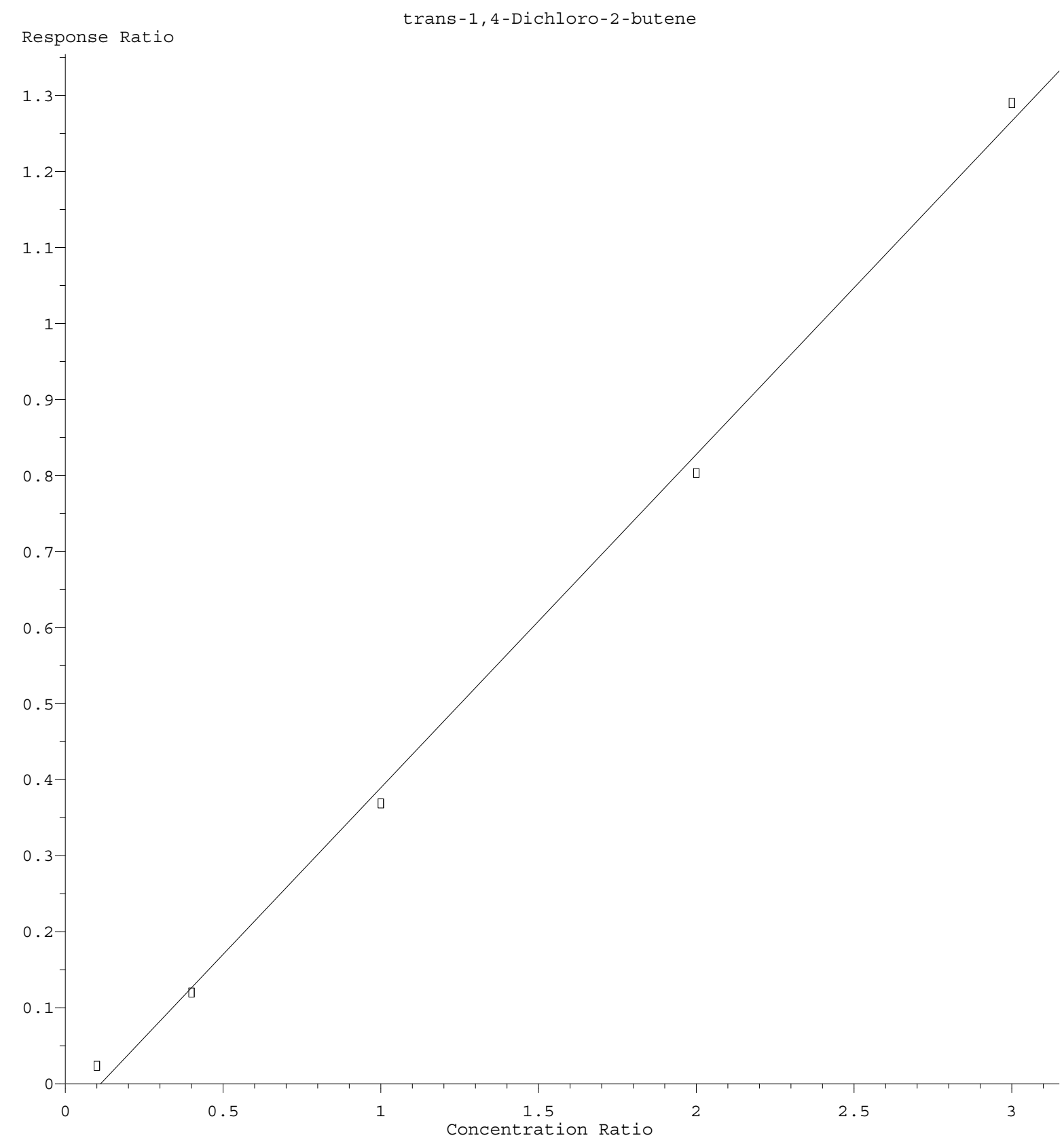
Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X121124W.M

56)	T	Ethyl methacry...	0.491	0.458	0.517	0.577	0.575	0.593	0.535	10.23
57)	T	1,3-Dichloropr...	0.578	0.593	0.585	0.613	0.583	0.590	0.590	2.09
58)	T	2-Chloroethyl ...	0.222	0.268	0.256	0.293	0.285	0.296	0.270	10.47
59)	T	2-Hexanone	0.323	0.386	0.408	0.439	0.420	0.438	0.403	10.82
60)	T	Dibromochlorom...	0.254	0.248	0.306	0.370	0.378	0.398	0.326	20.17
61)	T	1,2-Dibromoethane	0.303	0.322	0.344	0.369	0.364	0.370	0.345	8.06
62)	S	4-Bromofluorob...		0.390	0.351	0.442	0.432	0.426	0.408	9.23
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.359	0.354	0.317	0.321	0.312	0.327	0.332	5.96
65)	PM	Chlorobenzene	1.130	1.068	1.039	1.088	1.036	1.067	1.071	3.27
66)	T	1,1,1,2-Tetrac...	0.301	0.305	0.334	0.375	0.368	0.383	0.344	10.47
67)	C	Ethyl Benzene	1.853	1.806	1.816	1.927	1.831	1.875	1.851	2.42#
68)	T	m/p-Xylenes	0.653	0.660	0.665	0.707	0.683	0.707	0.679	3.50
69)	T	o-Xylene	0.686	0.683	0.685	0.703	0.671	0.697	0.687	1.64
70)	T	Styrene	1.007	1.019	1.099	1.162	1.148	1.177	1.102	6.70
71)	P	Bromoform	0.137	0.173	0.194	0.247	0.269	0.297	0.219	28.02
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.665	3.976	3.920	3.912	3.747	3.747	3.828	3.25
74)	T	N-amyl acetate	1.435	1.620	1.773	1.916	1.901	1.967	1.769	11.64
75)	P	1,1,2,2-Tetrac...	1.410	1.350	1.332	1.336	1.256	1.293	1.329	3.93
76)	T	1,2,3-Trichlor...	1.272	1.075	1.113	1.124	1.059	1.055	1.116	7.30
77)	T	Bromobenzene	1.009	0.934	0.890	0.942	0.899	0.895	0.928	4.87
78)	T	n-propylbenzene	3.739	4.263	4.319	4.502	4.283	4.277	4.231	6.06
79)	T	2-Chlorotoluene	2.940	2.847	2.707	2.771	2.582	2.569	2.736	5.36
80)	T	1,3,5-Trimethy...	3.066	3.222	3.224	3.308	3.097	3.128	3.174	2.90
81)	T	trans-1,4-Dich...		0.236	0.300	0.369	0.402	0.430	0.347	22.67
82)	T	4-Chlorotoluene	2.964	3.051	3.013	3.114	3.011	3.026	3.030	1.65
83)	T	tert-Butylbenzene	3.170	3.077	3.105	3.259	3.106	3.106	3.137	2.14
84)	T	1,2,4-Trimethy...	2.699	3.254	3.207	3.290	3.148	3.105	3.117	6.92
85)	T	sec-Butylbenzene	3.679	3.748	3.840	3.986	3.804	3.793	3.808	2.70
86)	T	p-Isopropyltol...	2.949	3.061	3.254	3.347	3.197	3.211	3.170	4.49
87)	T	1,3-Dichlorobe...	1.519	1.634	1.640	1.683	1.625	1.628	1.621	3.35
88)	T	1,4-Dichlorobe...	1.811	1.640	1.632	1.672	1.621	1.623	1.667	4.39
89)	T	n-Butylbenzene	2.249	2.387	2.659	2.844	2.889	2.964	2.665	10.90
90)	T	Hexachloroethane	0.358	0.396	0.406	0.507	0.542	0.567	0.463	18.85
91)	T	1,2-Dichlorobe...	1.745	1.666	1.668	1.726	1.654	1.643	1.683	2.46
92)	T	1,2-Dibromo-3-...	0.222	0.226	0.241	0.273	0.279	0.306	0.258	13.01
93)	T	1,2,4-Trichlor...	0.770	0.827	0.891	0.978	1.013	1.058	0.923	12.16
94)	T	Hexachlorobuta...	0.390	0.349	0.367	0.369	0.371	0.381	0.371	3.75
95)	T	Naphthalene	2.925	3.346	3.629	3.835	3.866	4.015	3.603	11.24
96)	T	1,2,3-Trichlor...	0.854	0.885	0.984	1.019	1.055	1.077	0.979	9.30

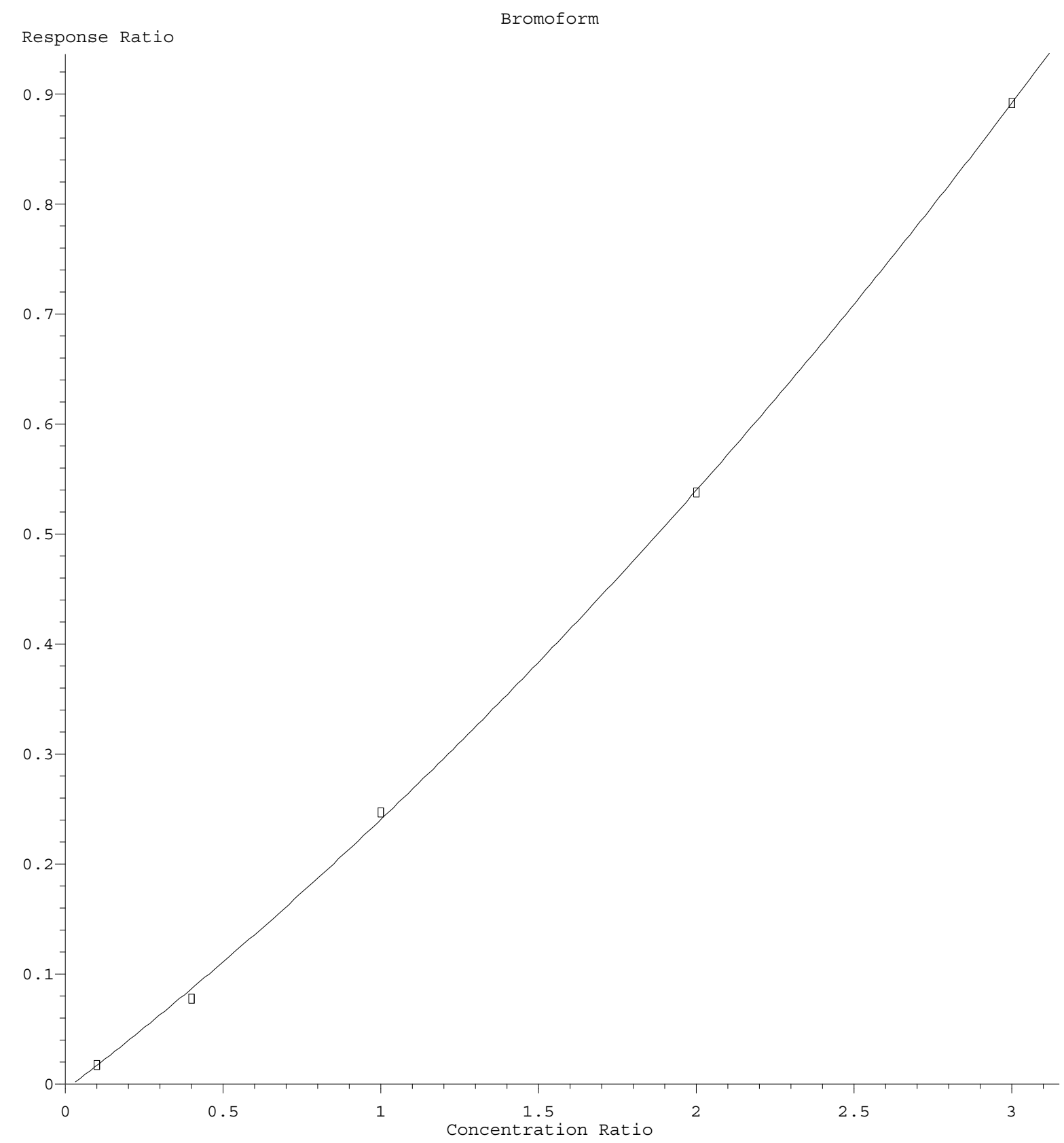
(#) = Out of Range



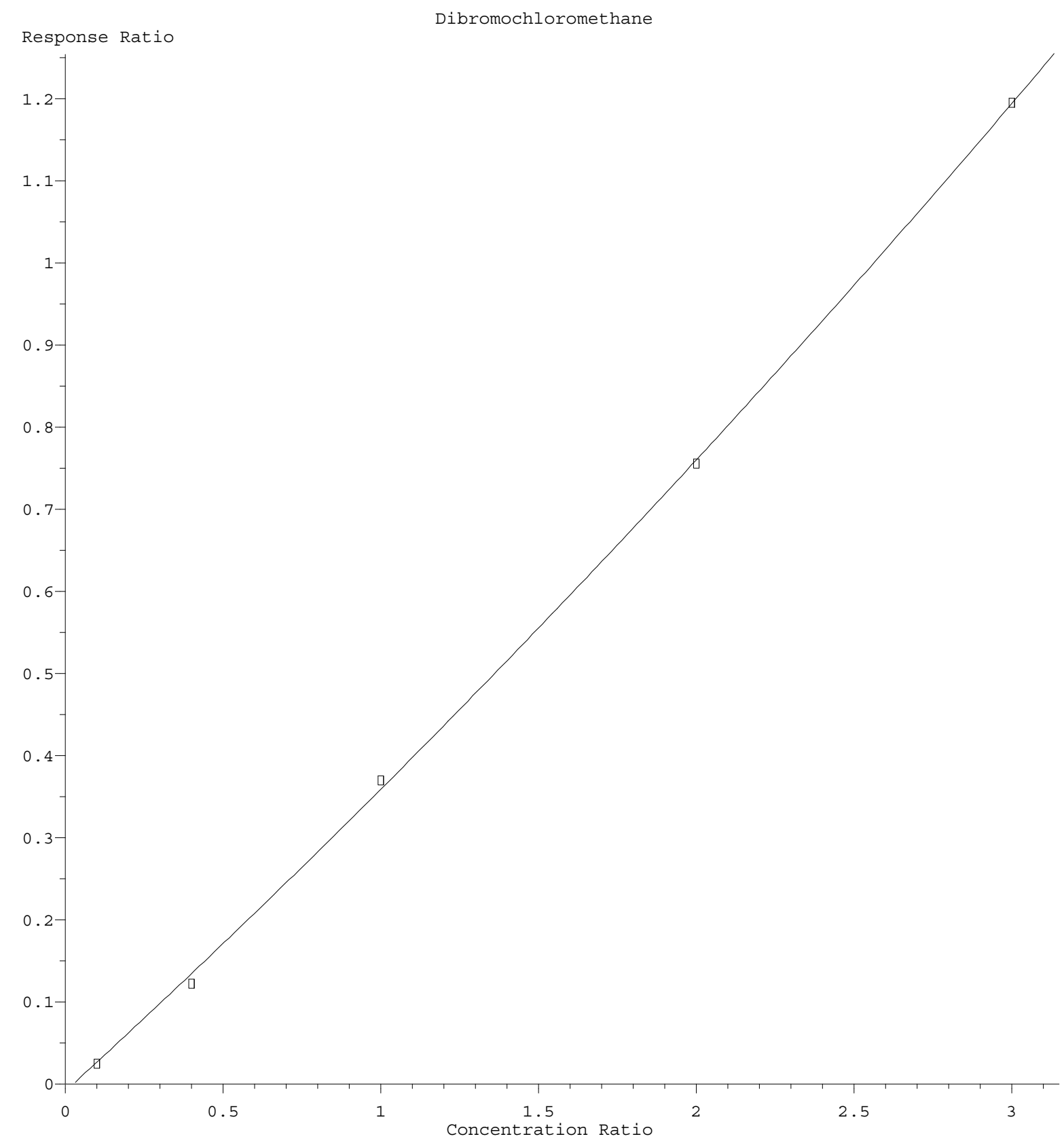
R = 2.599e-002 A*A + 4.830e-001 A - 9.631e-003
Coef of Det (r^2) = 0.999780 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X121124W.M
Calibration Table Last Updated: Thu Dec 12 04:28:14 2024



Response = 4.385e-001 * Amt - 4.893e-002
Coef of Det (r^2) = 0.997764 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X121124W.M
Calibration Table Last Updated: Thu Dec 12 04:28:14 2024



R = 2.648e-002 A*A + 2.195e-001 A - 5.414e-003
Coef of Det (r^2) = 0.999777 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X121124W.M
Calibration Table Last Updated: Thu Dec 12 04:28:14 2024



R = 1.660e-002 A*A + 3.511e-001 A - 8.656e-003
Coef of Det (r^2) = 0.999705 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X121124W.M
Calibration Table Last Updated: Thu Dec 12 04:28:14 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044219.D
Acq On : 11 Dec 2024 10:41
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.543	168	141947	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	253574	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.049	117	213862	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	88334	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l		
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l		
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#			
50) Toluene-d8	0.000	98	0d	0.000	ug/l		
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	2491	1.135	ug/l		98
3) Chloromethane	1.300	50	2109	1.005	ug/l		98
4) Vinyl Chloride	1.373	62	2285	1.045	ug/l	#	85
6) Chloroethane	1.672	64	1316m	0.967	ug/l		
7) Trichlorofluoromethane	1.867	101	4491	1.049	ug/l		96
8) Diethyl Ether	2.129	74	1651	1.130	ug/l		78
9) 1,1,2-Trichlorotrifluo...	2.318	101	1796	1.037	ug/l		95
12) 1,1-Dichloroethene	2.306	96	1454	0.914	ug/l		90
14) Allyl chloride	2.660	41	2551	0.963	ug/l	#	91
15) Acrylonitrile	3.068	53	4528	4.660	ug/l		98
16) Acetone	2.385	43	5096	5.022	ug/l		97
17) Carbon Disulfide	2.501	76	2387	0.789	ug/l		99
18) Methyl Acetate	2.702	43	2739	1.047	ug/l	#	86
19) Methyl tert-butyl Ether	3.117	73	5832	0.939	ug/l	#	91
20) Methylene Chloride	2.776	84	1928	1.012	ug/l	#	74
21) trans-1,2-Dichloroethene	3.080	96	1703	1.007	ug/l	#	79
22) Diisopropyl ether	3.763	45	5792	0.971	ug/l	#	83
23) Vinyl Acetate	3.733	43	17578	3.623	ug/l		100
24) 1,1-Dichloroethane	3.605	63	3040	0.914	ug/l		96
25) 2-Butanone	4.586	43	6380	4.423	ug/l		96
26) 2,2-Dichloropropane	4.464	77	2220	0.821	ug/l		85
27) cis-1,2-Dichloroethene	4.489	96	2296	1.069	ug/l		81
28) Bromochloromethane	4.909	49	1641	1.006	ug/l	#	72
29) Tetrahydrofuran	5.025	42	4158	4.491	ug/l	#	84
30) Chloroform	5.086	83	3943	1.055	ug/l		91
32) 1,1,1-Trichloroethane	5.379	97	2818	0.908	ug/l	#	48
36) 1,1-Dichloropropene	5.696	75	2479m	1.092	ug/l		
37) Ethyl Acetate	4.727	43	2718	0.969	ug/l	#	71
38) Carbon Tetrachloride	5.678	117	2454	1.004	ug/l	#	73
39) Methylcyclohexane	7.366	83	2606	0.960	ug/l		93
40) Benzene	6.037	78	6864	0.996	ug/l		92
41) Methacrylonitrile	4.946	41	1447m	0.971	ug/l		
42) 1,2-Dichloroethane	6.092	62	2810	0.990	ug/l		93
43) Isopropyl Acetate	6.354	43	3734	0.851	ug/l		98
44) Trichloroethene	7.122	130	1806	1.051	ug/l		71
45) 1,2-Dichloropropane	7.433	63	1865	1.059	ug/l	#	74

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044219.D
Acq On : 11 Dec 2024 10:41
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Dibromomethane	7.592	93	1251	0.916 ug/l	97
47) Bromodichloromethane	7.830	83	1926	0.816 ug/l #	74
48) Methyl methacrylate	7.720	41	2168	1.018 ug/l #	77
49) 1,4-Dioxane	7.702	88	492m	13.522 ug/l	
51) 4-Methyl-2-Pentanone	8.579	43	12824	4.547 ug/l	95
52) Toluene	8.720	92	4606	1.064 ug/l	92
53) t-1,3-Dichloropropene	8.988	75	1716	1.694 ug/l #	78
54) cis-1,3-Dichloropropene	8.366	75	2048	0.797 ug/l #	75
55) 1,1,2-Trichloroethane	9.159	97	1710	0.994 ug/l #	83
56) Ethyl methacrylate	9.128	69	2490	0.917 ug/l #	85
57) 1,3-Dichloropropane	9.317	76	2929	0.979 ug/l	94
58) 2-Chloroethyl Vinyl ether	8.244	63	5621	4.105 ug/l	96
59) 2-Hexanone	9.439	43	8199	4.017 ug/l	98
60) Dibromochloromethane	9.524	129	1289	1.953 ug/l	97
61) 1,2-Dibromoethane	9.610	107	1535	0.877 ug/l	95
64) Tetrachloroethene	9.274	164	1536	1.082 ug/l	86
65) Chlorobenzene	10.079	112	4835	1.055 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.158	131	1288	0.875 ug/l #	63
67) Ethyl Benzene	10.195	91	7924	1.001 ug/l #	88
68) m/p-Xylenes	10.305	106	5583	1.922 ug/l	98
69) o-Xylene	10.640	106	2933	0.998 ug/l	96
70) Styrene	10.658	104	4306	0.914 ug/l	94
71) Bromoform	10.805	173	584	1.847 ug/l #	72
73) Isopropylbenzene	10.963	105	6474	0.957 ug/l	100
74) N-amyl acetate	10.847	43	2536	0.811 ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.219	83	2491	1.061 ug/l	95
76) 1,2,3-Trichloropropane	11.244	75	2248m	1.121 ug/l	
77) Bromobenzene	11.201	156	1783	1.087 ug/l	91
78) n-propylbenzene	11.305	91	6606	0.884 ug/l	86
79) 2-Chlorotoluene	11.366	91	5194	1.075 ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	5417	0.966 ug/l	98
82) 4-Chlorotoluene	11.457	91	5236	0.978 ug/l	98
83) tert-Butylbenzene	11.713	119	5601	1.011 ug/l	91
84) 1,2,4-Trimethylbenzene	11.756	105	4769	0.866 ug/l	95
85) sec-Butylbenzene	11.890	105	6500	0.966 ug/l	99
86) p-Isopropyltoluene	12.012	119	5210	0.930 ug/l	93
87) 1,3-Dichlorobenzene	11.975	146	2684	0.937 ug/l	94
88) 1,4-Dichlorobenzene	12.042	146	3200m	1.087 ug/l	
89) n-Butylbenzene	12.335	91	3973	0.844 ug/l	94
90) Hexachloroethane	12.536	117	632	0.773 ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	3082	1.036 ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	392	0.860 ug/l	70
93) 1,2,4-Trichlorobenzene	13.591	180	1361	0.835 ug/l	92
94) Hexachlorobutadiene	13.725	225	689	1.051 ug/l	96
95) Naphthalene	13.780	128	5167	0.812 ug/l #	94
96) 1,2,3-Trichlorobenzene	13.963	180	1509	0.873 ug/l	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

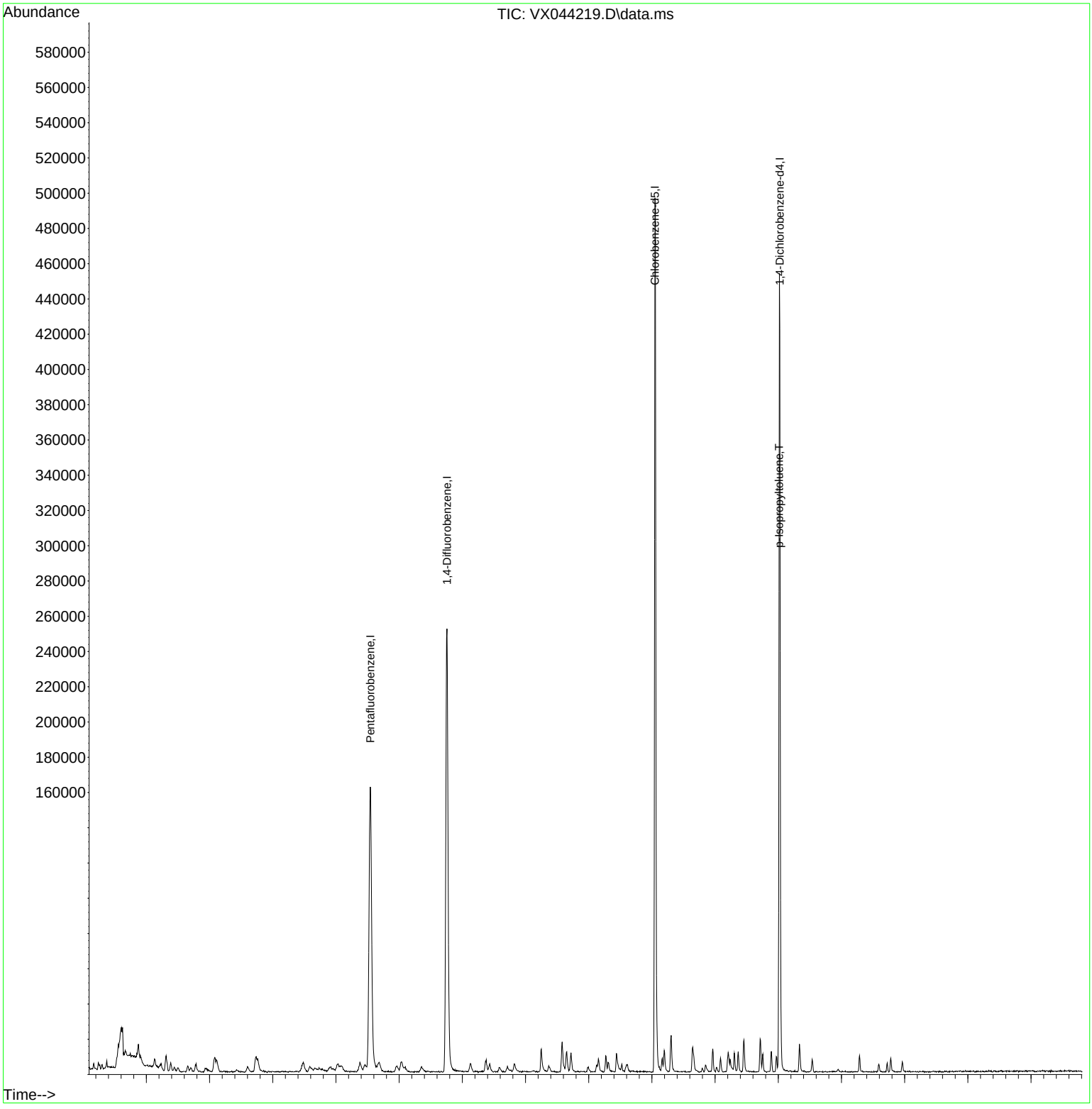
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044219.D
Acq On : 11 Dec 2024 10:41
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

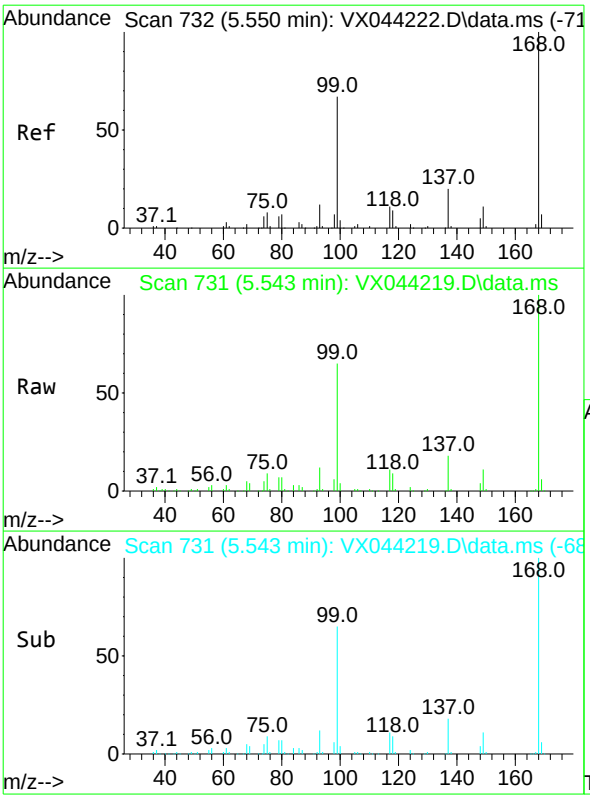
Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

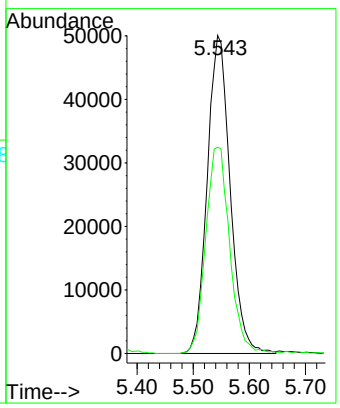




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 73
Delta R.T. -0.007 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:168 Resp: 141947

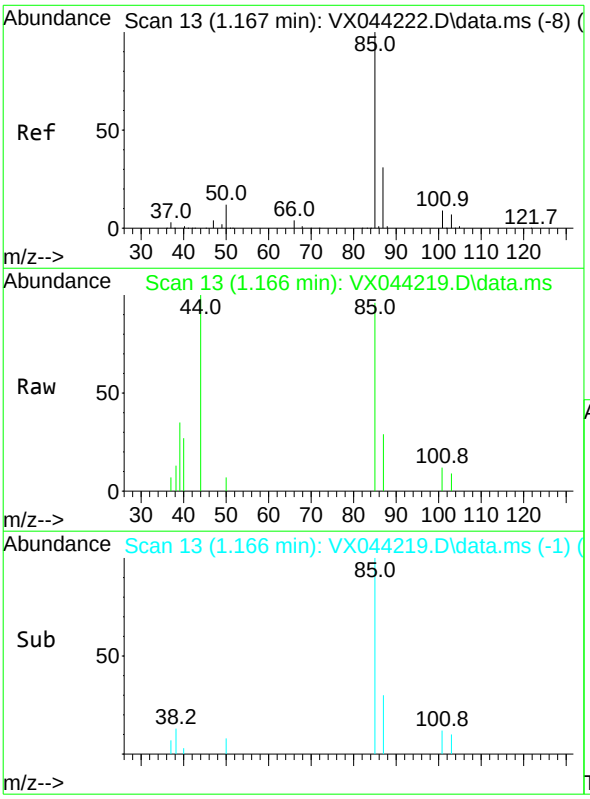
Ion	Ratio	Lower	Upper
168	100		
99	64.9	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

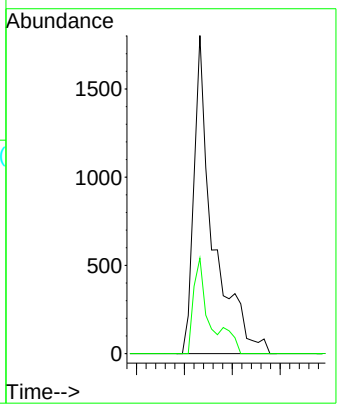
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

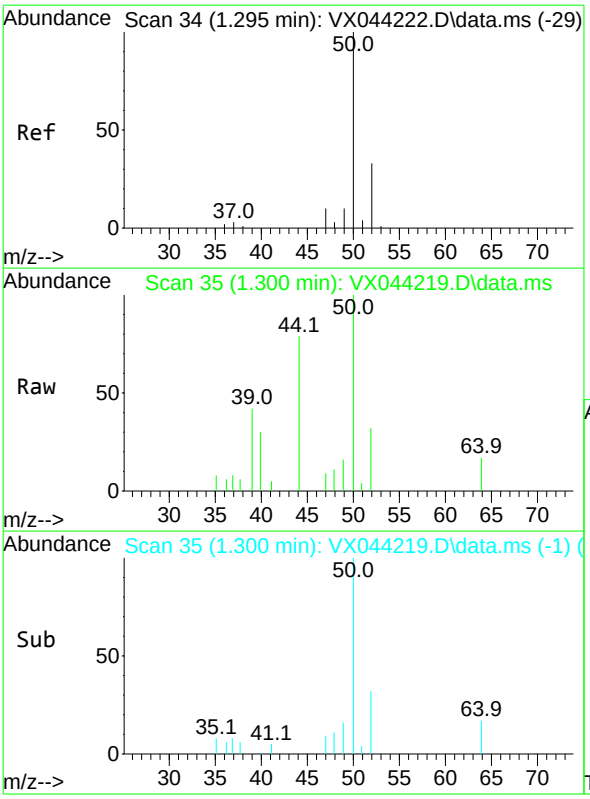


#2
Dichlorodifluoromethane
Concen: 1.135 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 85 Resp: 2491

Ion	Ratio	Lower	Upper
85	100		
87	30.0	15.4	46.4

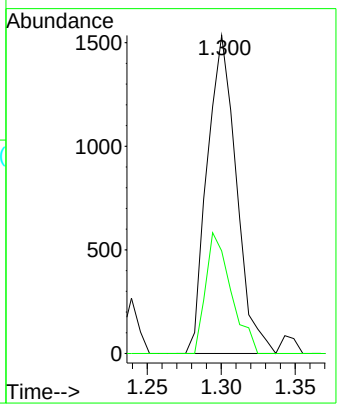




#3
Chloromethane
Concen: 1.005 ug/l
RT: 1.300 min Scan# 35
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 50 Resp: 2109

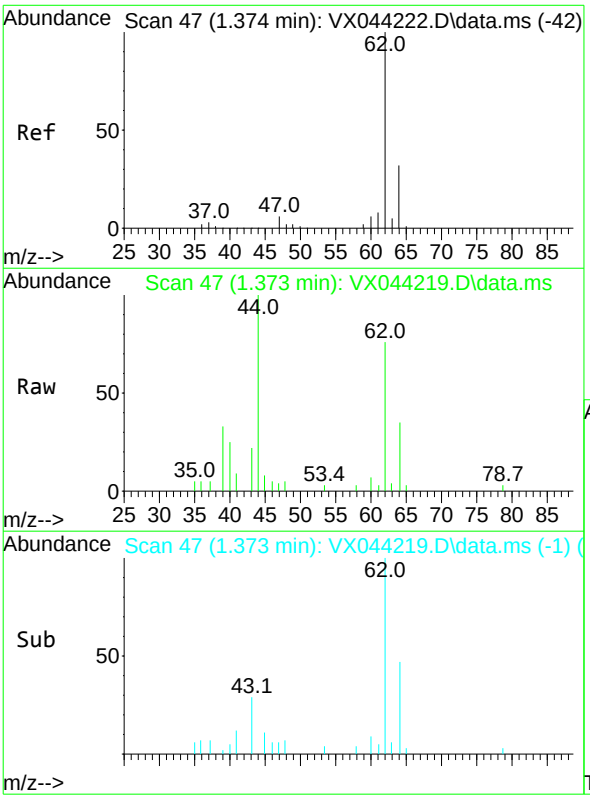
Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

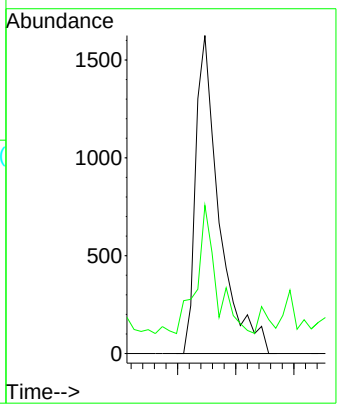
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

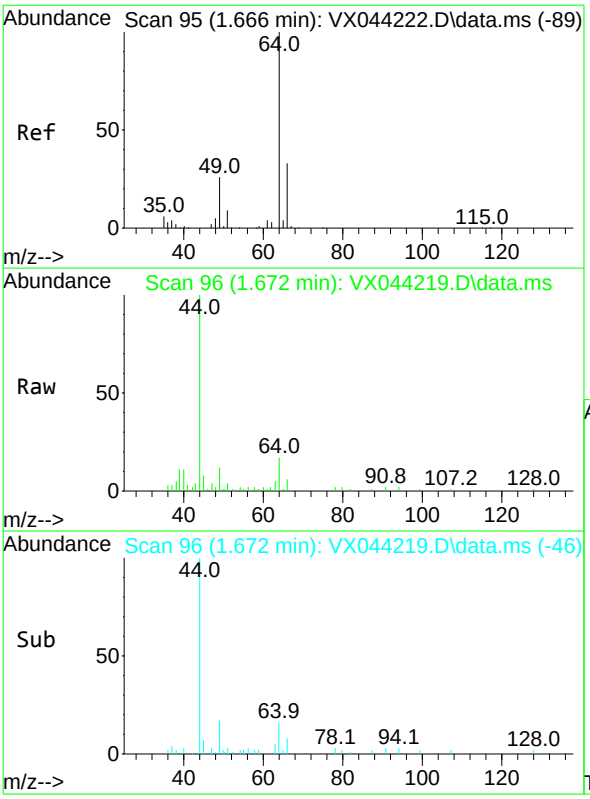


#4
Vinyl Chloride
Concen: 1.045 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 62 Resp: 2285

Ion	Ratio	Lower	Upper
62	100		
64	40.3	25.7	38.5#

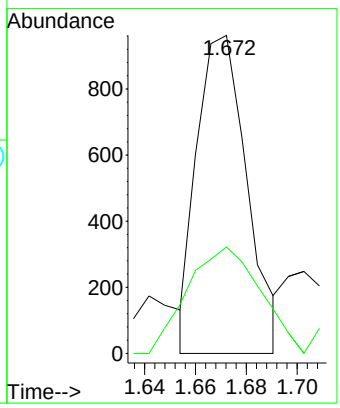




#6
Chloroethane
Concen: 0.967 ug/l m
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 64 Resp: 1316

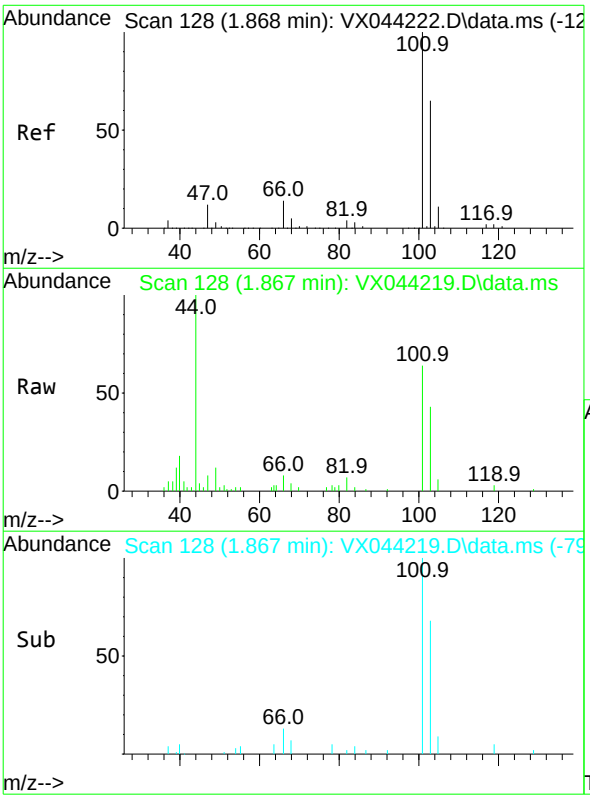
Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.6	39.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

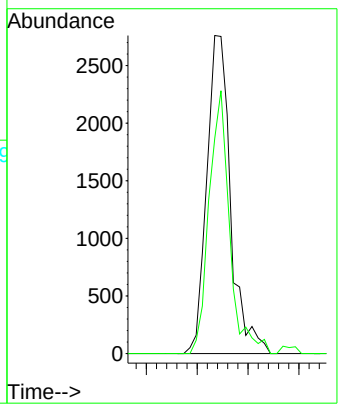
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

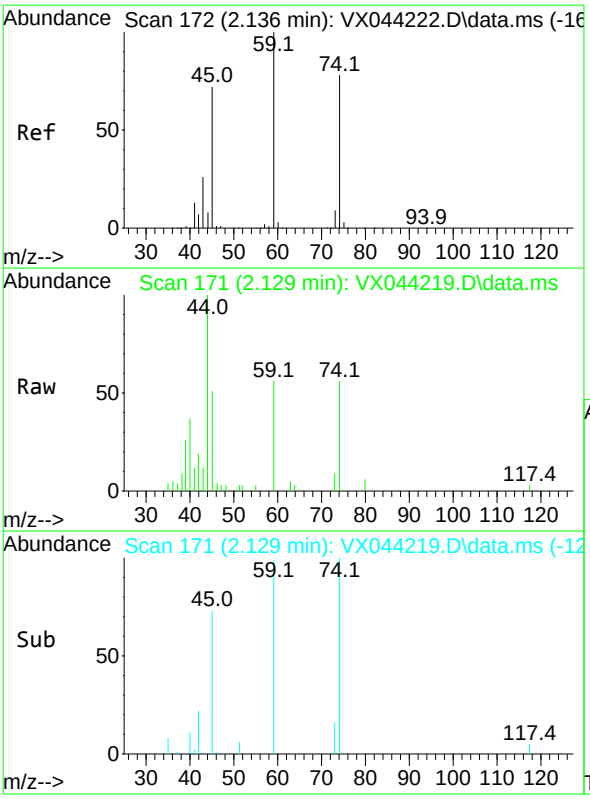


#7
Trichlorofluoromethane
Concen: 1.049 ug/l
RT: 1.867 min Scan# 128
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:101 Resp: 4491

Ion	Ratio	Lower	Upper
101	100		
103	67.7	51.8	77.8





#8
Diethyl Ether
Concen: 1.130 ug/l
RT: 2.129 min Scan# 17
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

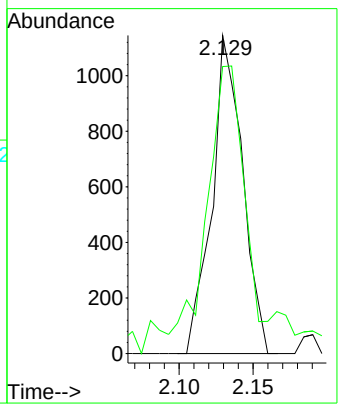
Tgt Ion: 74 Resp: 1651

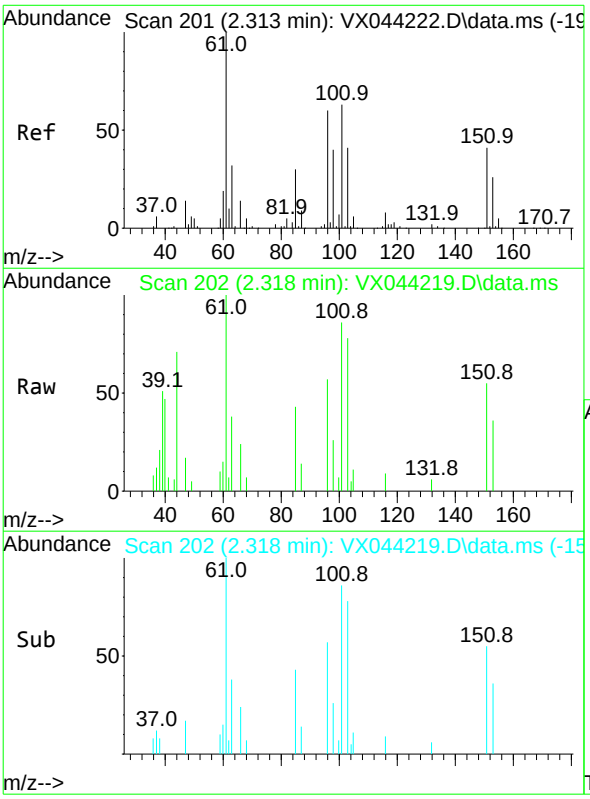
Ion	Ratio	Lower	Upper
74	100		
45	118.0	48.4	145.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

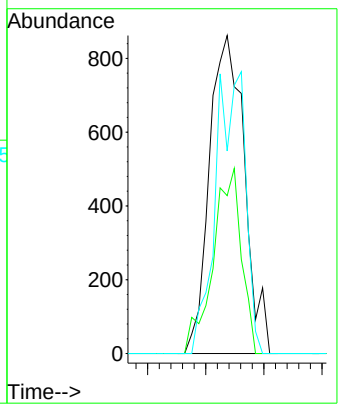


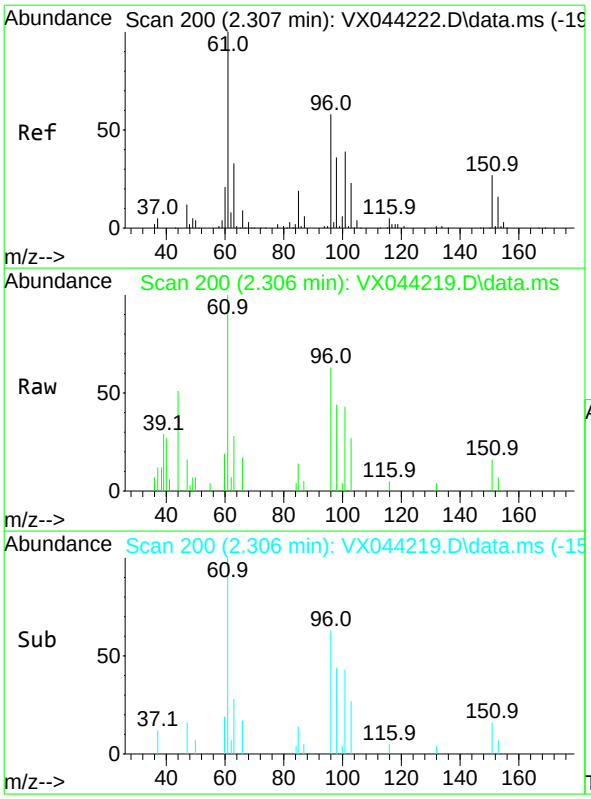


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.037 ug/l
RT: 2.318 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:101 Resp: 1796

Ion	Ratio	Lower	Upper
101	100		
85	47.3	38.5	57.7
151	76.1	55.8	83.6

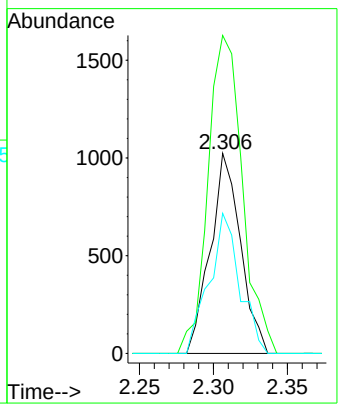




#12
1,1-Dichloroethene
Concen: 0.914 ug/l
RT: 2.306 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 96 Resp: 1454

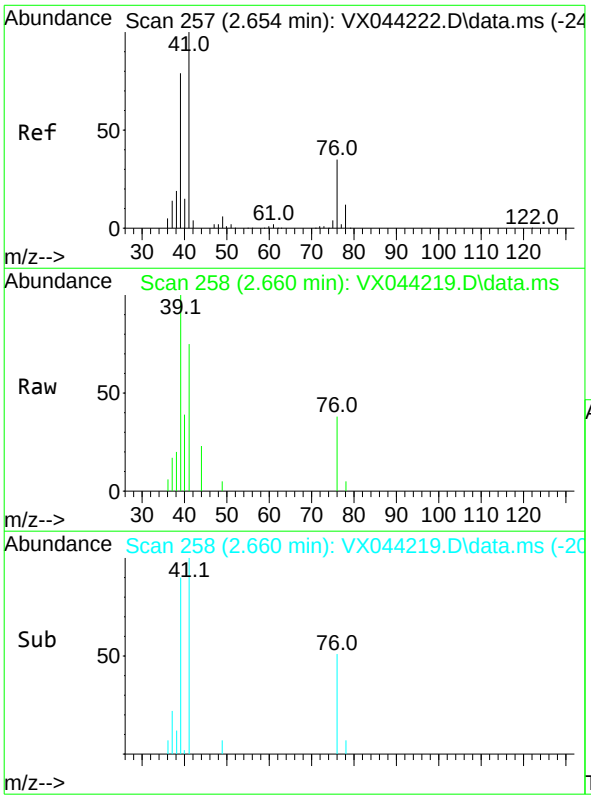
Ion	Ratio	Lower	Upper
96	100		
61	158.9	138.0	207.0
98	70.0	50.0	75.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

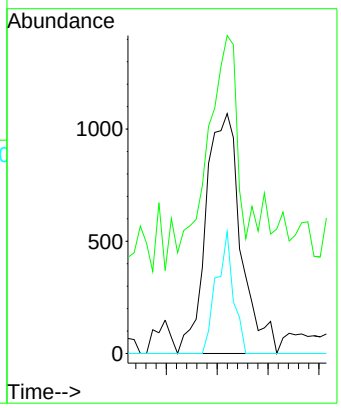
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

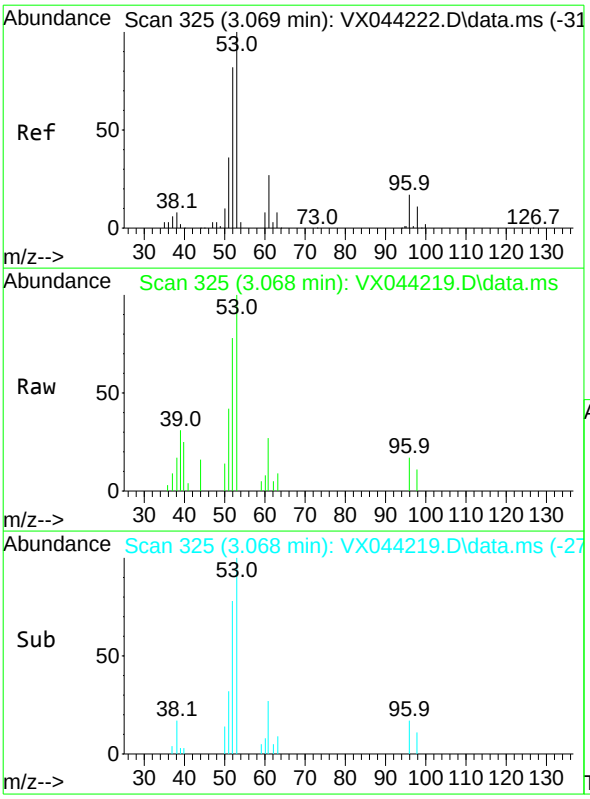


#14
Allyl chloride
Concen: 0.963 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 41 Resp: 2551

Ion	Ratio	Lower	Upper
41	100		
39	72.6	61.9	92.9
76	24.6	27.4	41.2#

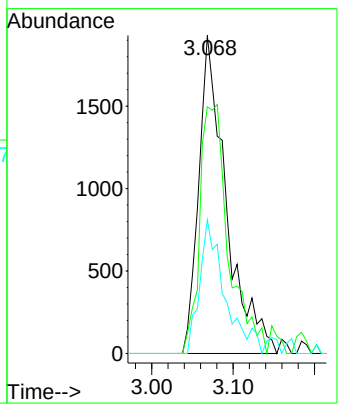




#15
Acrylonitrile
Concen: 4.660 ug/l
RT: 3.068 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 53 Resp: 4528

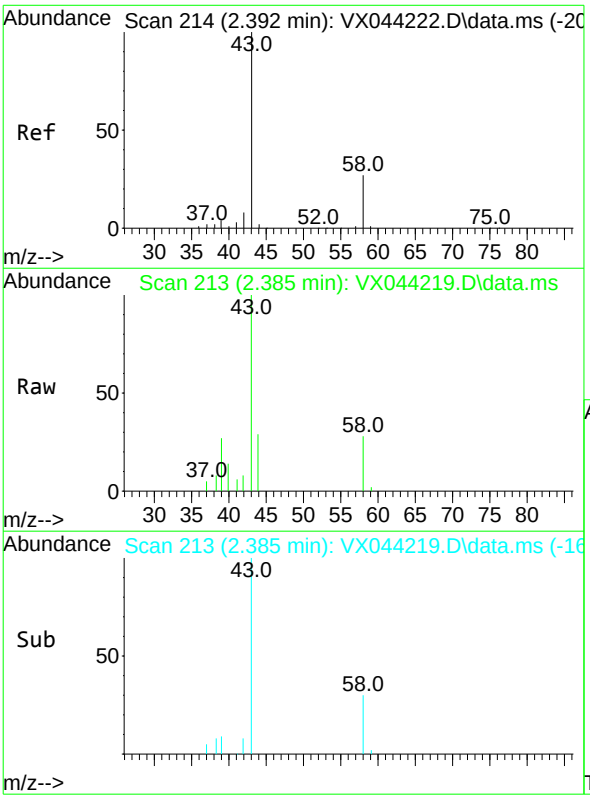
Ion	Ratio	Lower	Upper
53	100		
52	81.4	67.4	101.0
51	38.3	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

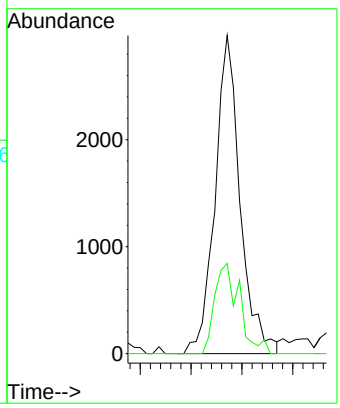
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

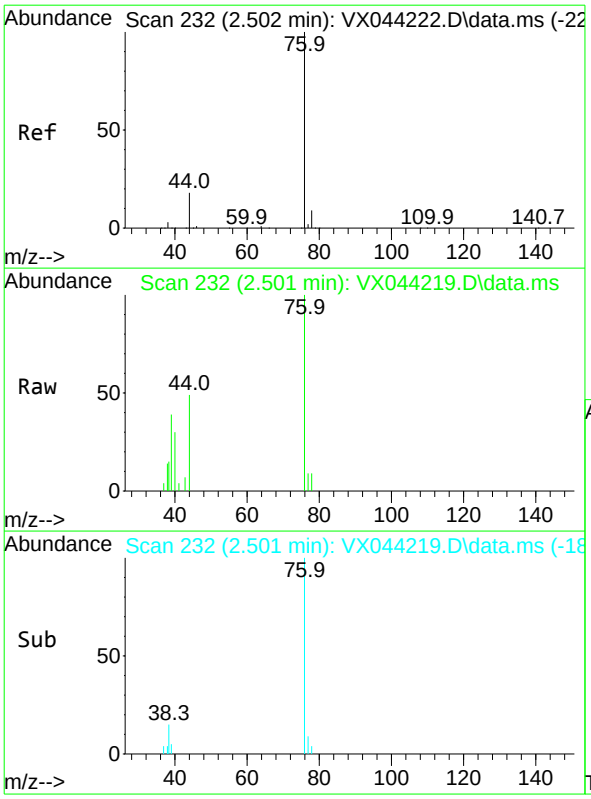


#16
Acetone
Concen: 5.022 ug/l
RT: 2.385 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 5096

Ion	Ratio	Lower	Upper
43	100		
58	28.3	21.6	32.4

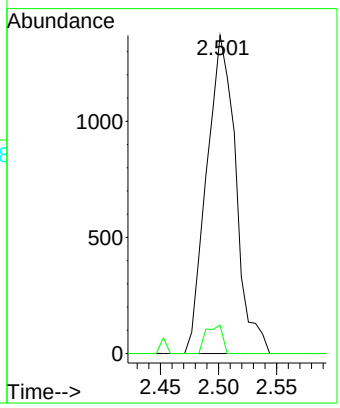




#17
Carbon Disulfide
Concen: 0.789 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 76 Resp: 2387

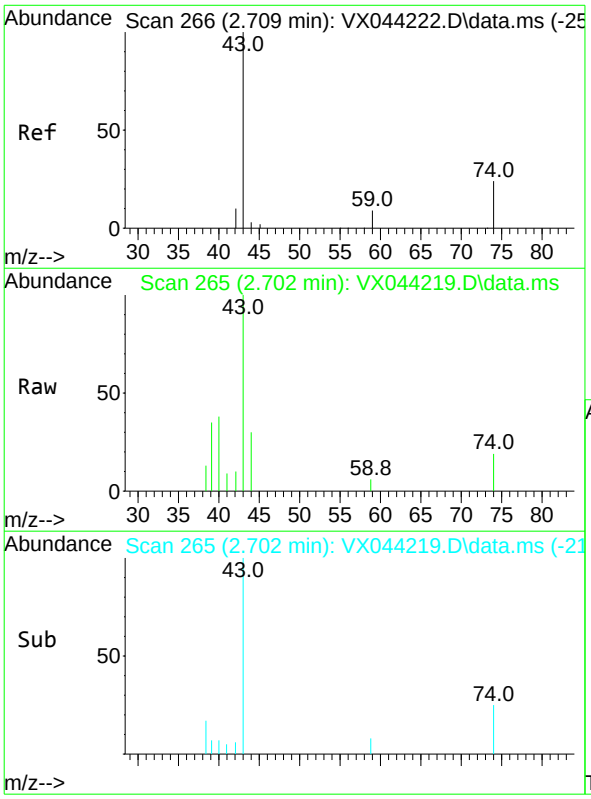
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

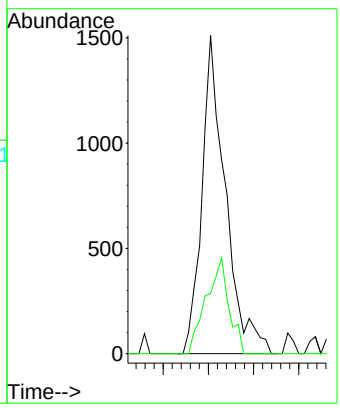
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

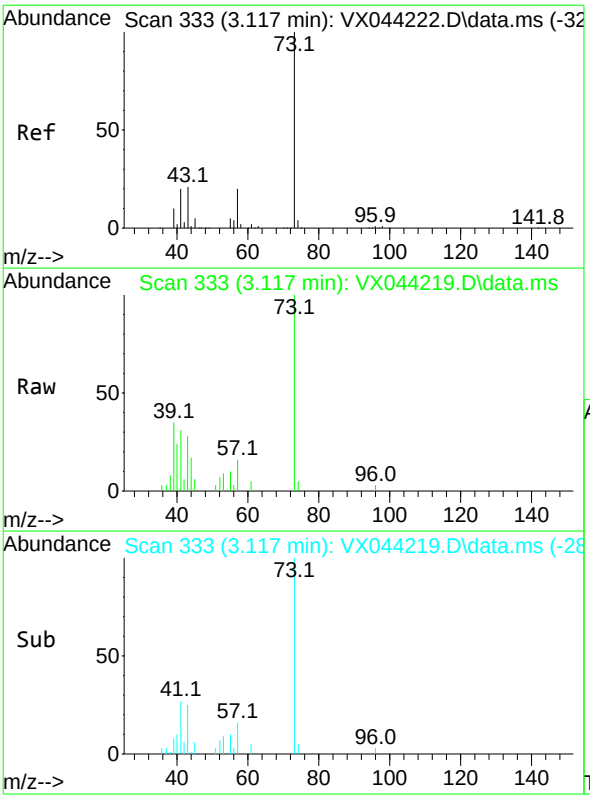


#18
Methyl Acetate
Concen: 1.047 ug/l
RT: 2.702 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 2739

Ion	Ratio	Lower	Upper
43	100		
74	28.9	17.7	26.5#





#19
Methyl tert-butyl Ether
Concen: 0.939 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

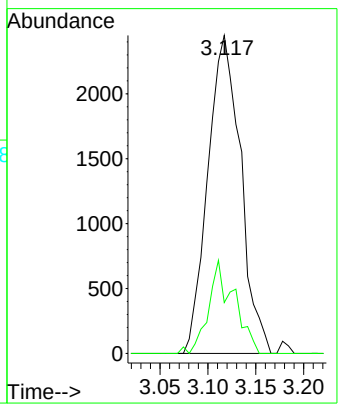
Tgt Ion: 73 Resp: 5832

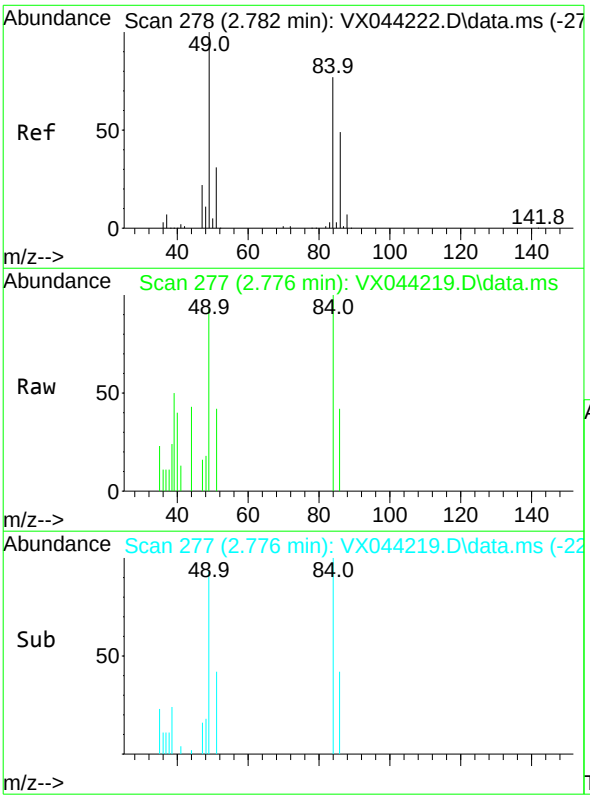
Ion	Ratio	Lower	Upper
73	100		
57	16.0	16.2	24.4#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

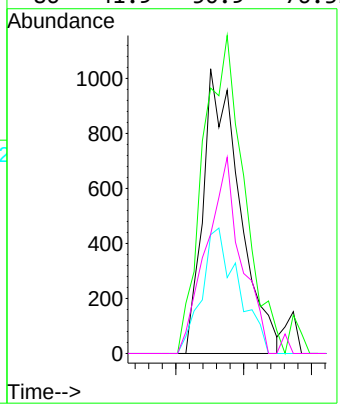


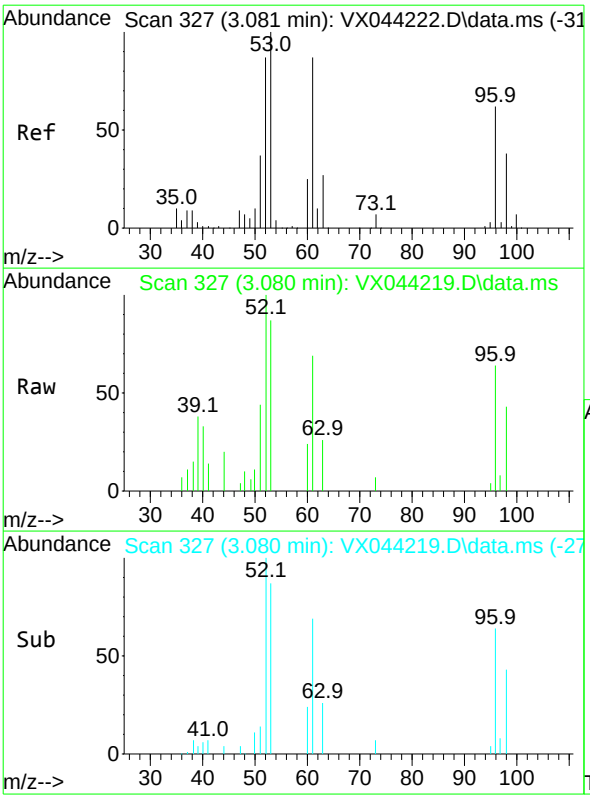


#20
Methylene Chloride
Concen: 1.012 ug/l
RT: 2.776 min Scan# 277
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 84 Resp: 1928

Ion	Ratio	Lower	Upper
84	100		
49	93.2	104.2	156.4#
51	41.7	32.2	48.4
86	41.9	50.9	76.3#





#21
trans-1,2-Dichloroethene
Concen: 1.007 ug/l
RT: 3.080 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

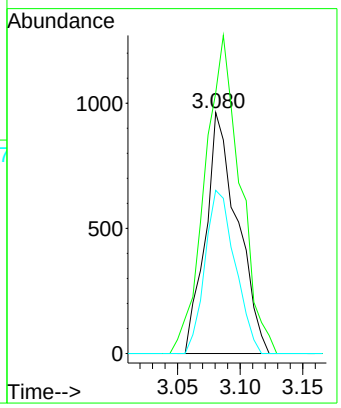
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

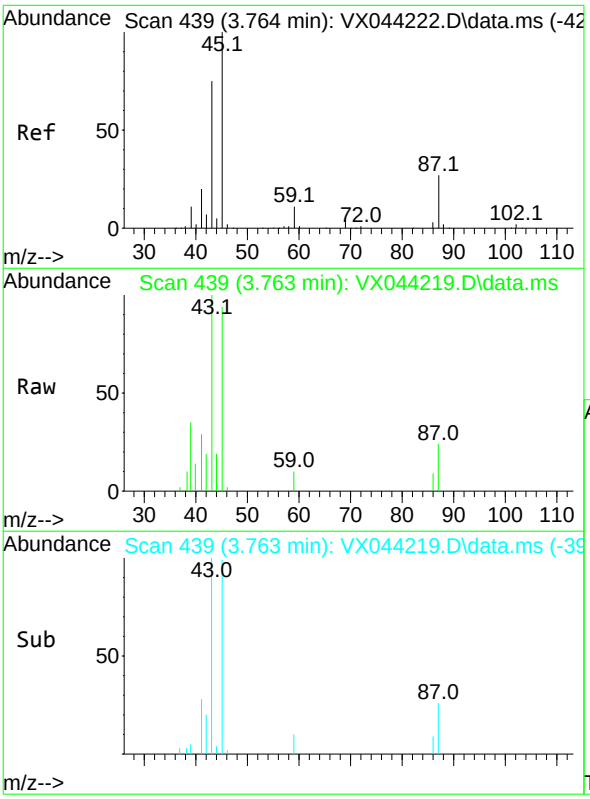
Tgt Ion: 96 Resp: 1703

Ion	Ratio	Lower	Upper
96	100		
61	108.1	112.0	168.0#
98	67.7	48.8	73.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

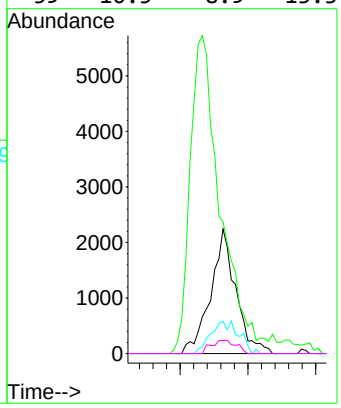


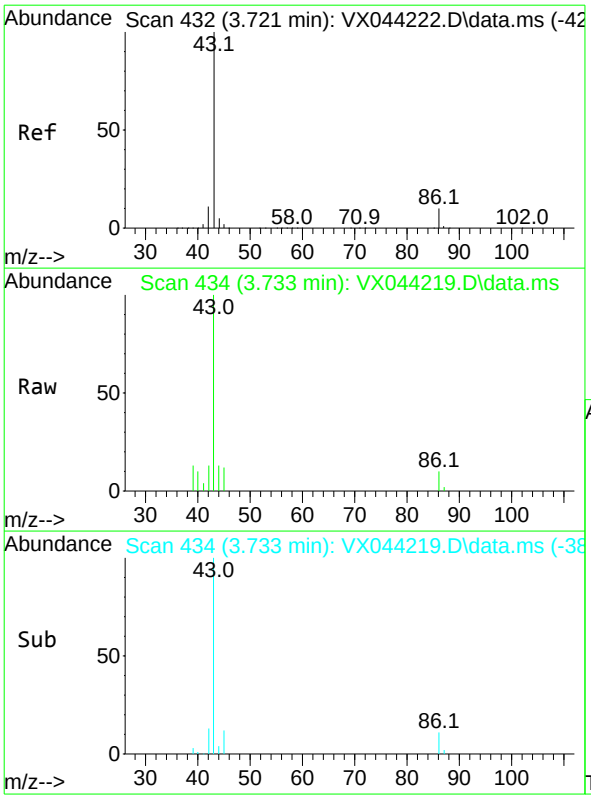


#22
Diisopropyl ether
Concen: 0.971 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 45 Resp: 5792

Ion	Ratio	Lower	Upper
45	100		
43	96.8	60.2	90.2#
87	25.9	21.2	31.8
59	10.5	8.9	13.3

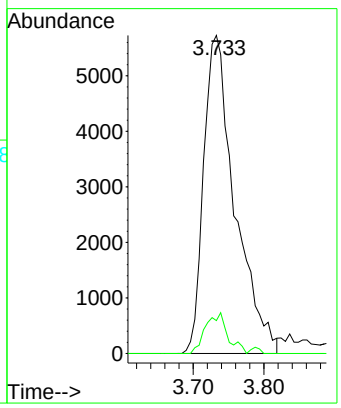




#23
Vinyl Acetate
Concen: 3.623 ug/l
RT: 3.733 min Scan# 43
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 17578

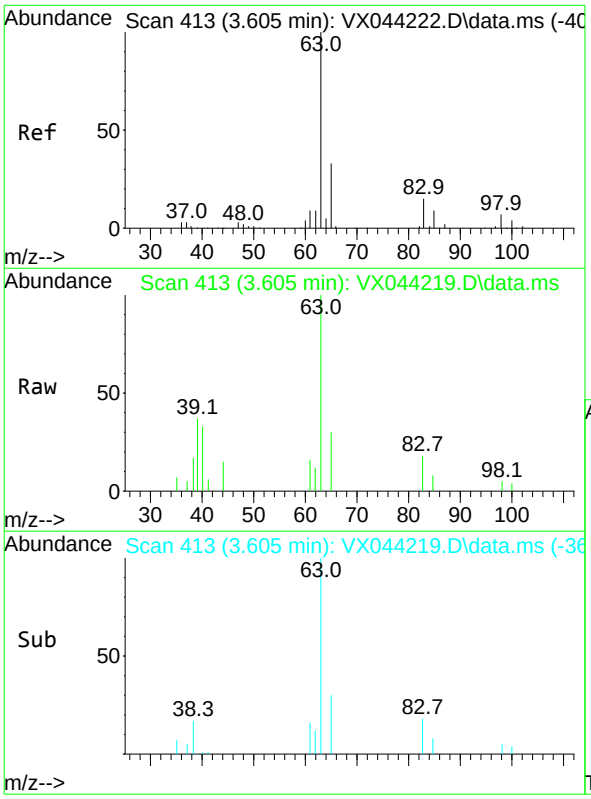
Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

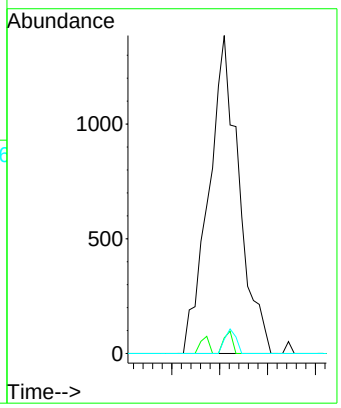
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

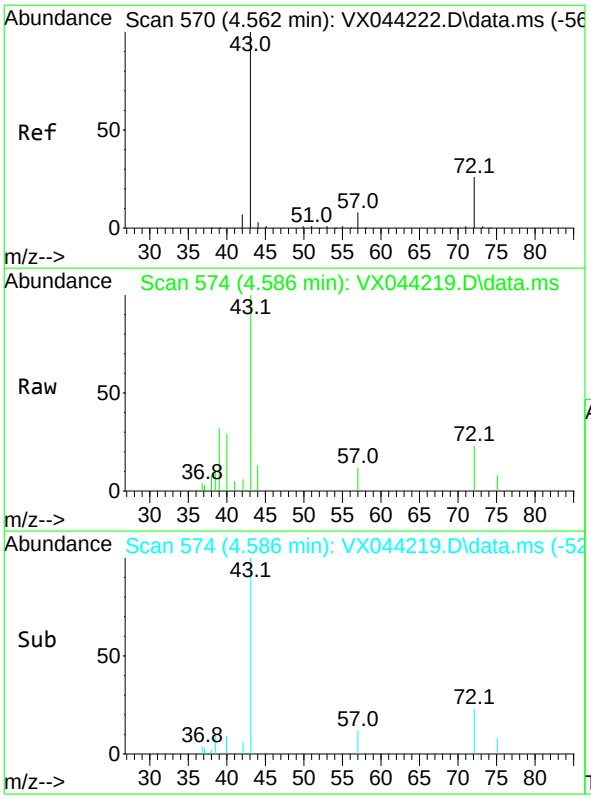


#24
1,1-Dichloroethane
Concen: 0.914 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 63 Resp: 3040

Ion	Ratio	Lower	Upper
63	100		
98	4.9	3.6	10.8
100	4.5	2.1	6.3

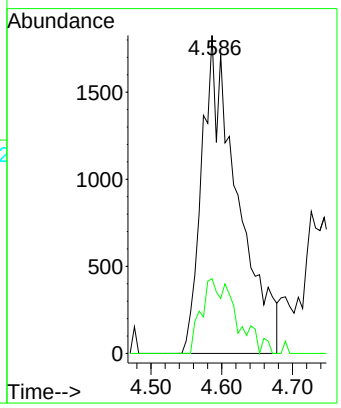




#25
2-Butanone
Concen: 4.423 ug/l
RT: 4.586 min Scan# 57
Delta R.T. 0.024 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 6380

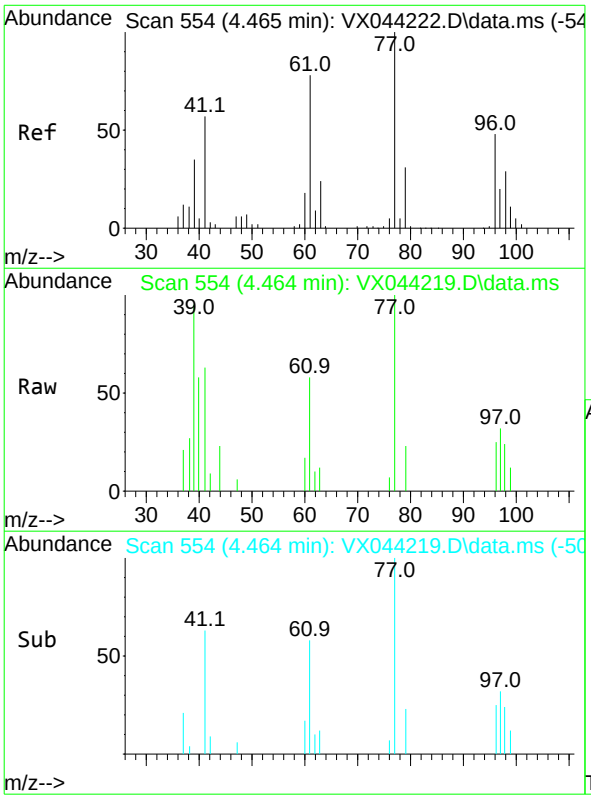
Ion	Ratio	Lower	Upper
43	100		
72	23.5	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

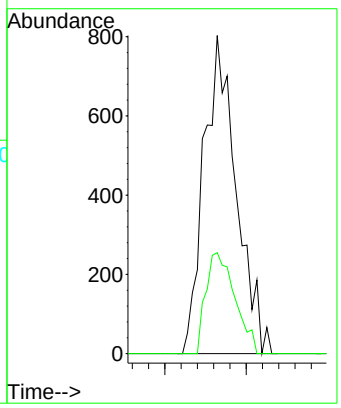
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

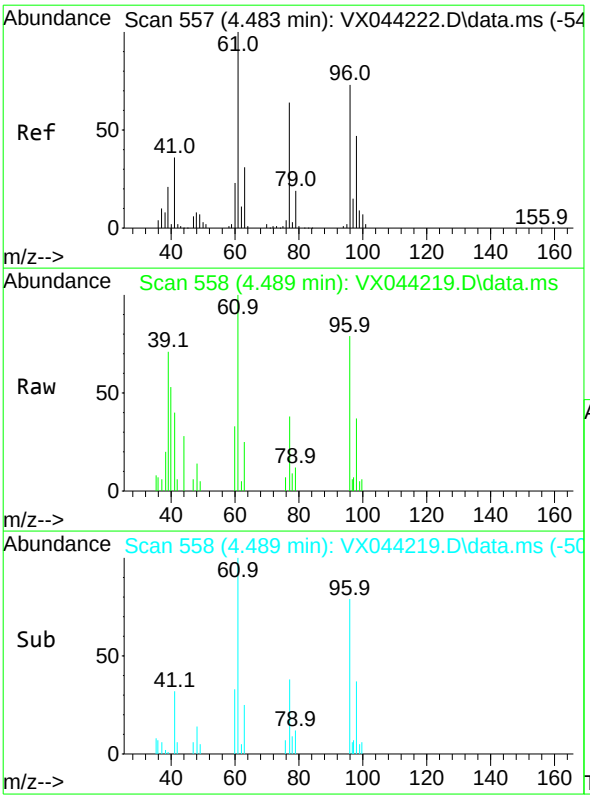


#26
2,2-Dichloropropane
Concen: 0.821 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 77 Resp: 2220

Ion	Ratio	Lower	Upper
77	100		
97	28.4	10.7	32.1

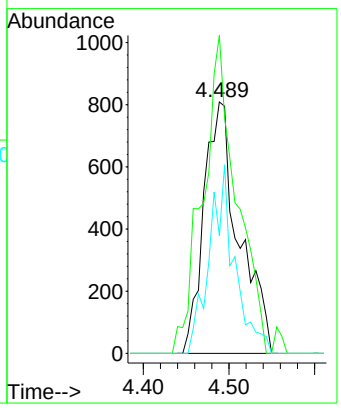




#27
cis-1,2-Dichloroethene
Concen: 1.069 ug/l
RT: 4.489 min Scan# 55
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 96 Resp: 2296

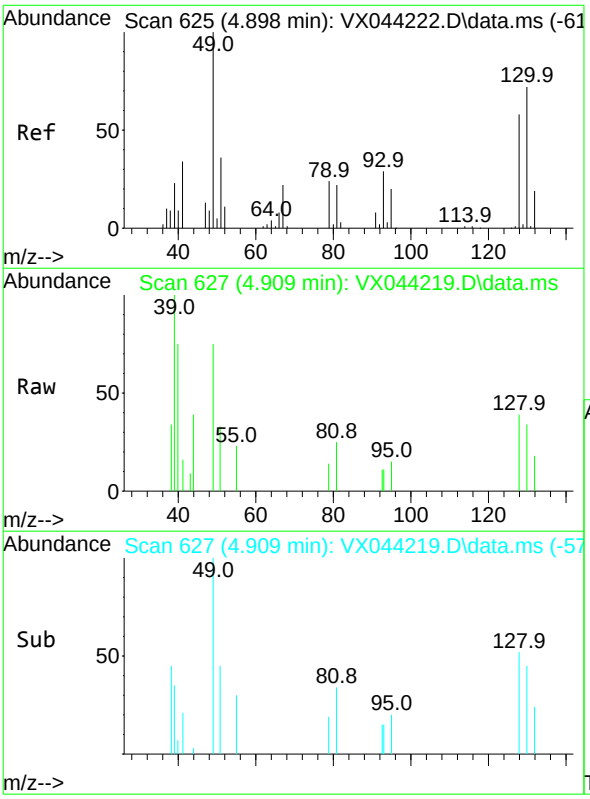
Ion	Ratio	Lower	Upper
96	100		
61	122.2	0.0	299.0
98	54.0	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

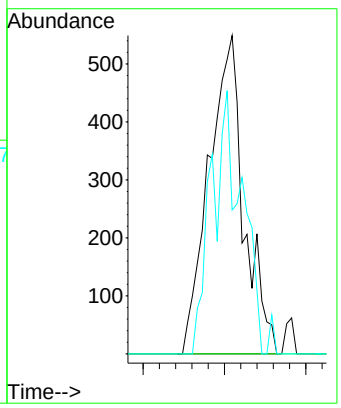
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

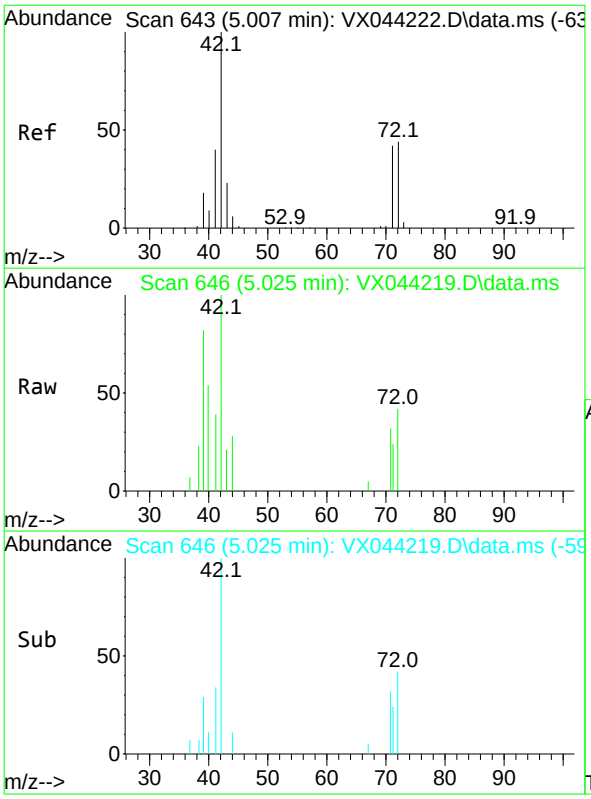


#28
Bromochloromethane
Concen: 1.006 ug/l
RT: 4.909 min Scan# 627
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 49 Resp: 1641

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	52.7	62.1	93.1#

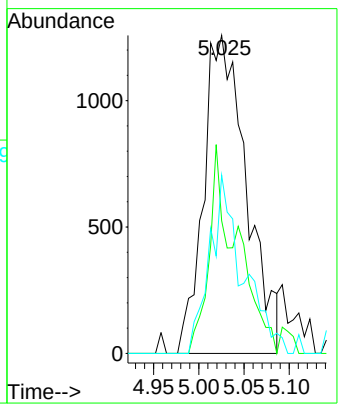




#29
Tetrahydrofuran
Concen: 4.491 ug/l
RT: 5.025 min Scan# 64
Delta R.T. 0.018 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 42 Resp: 4158

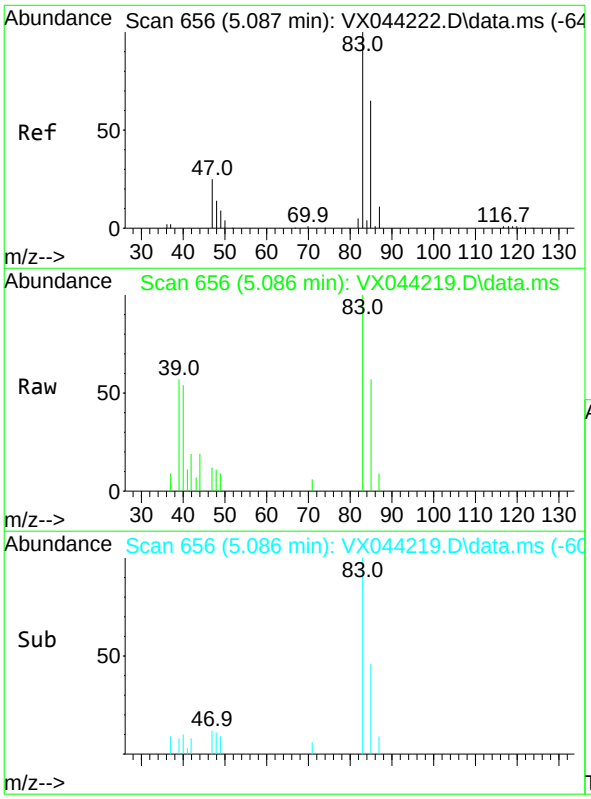
Ion	Ratio	Lower	Upper
42	100		
72	27.0	37.0	55.6#
71	43.1	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

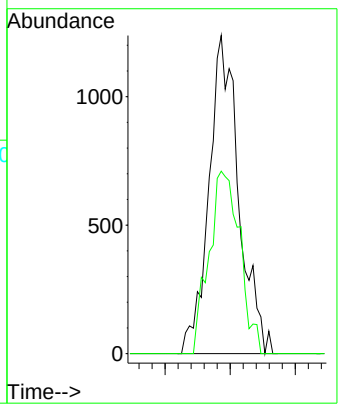
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

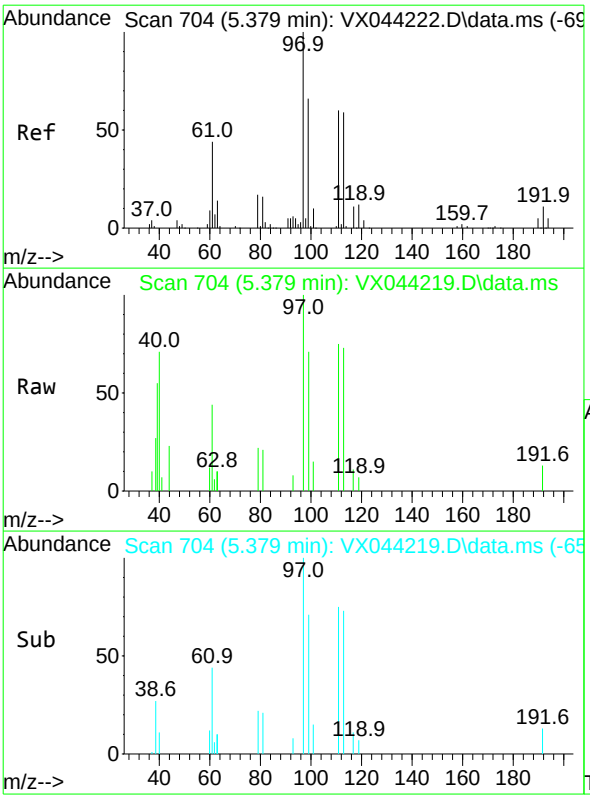


#30
Chloroform
Concen: 1.055 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 83 Resp: 3943

Ion	Ratio	Lower	Upper
83	100		
85	57.4	51.6	77.4





#32
1,1,1-Trichloroethane
Concen: 0.908 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

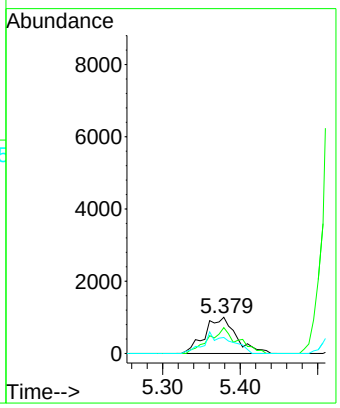
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

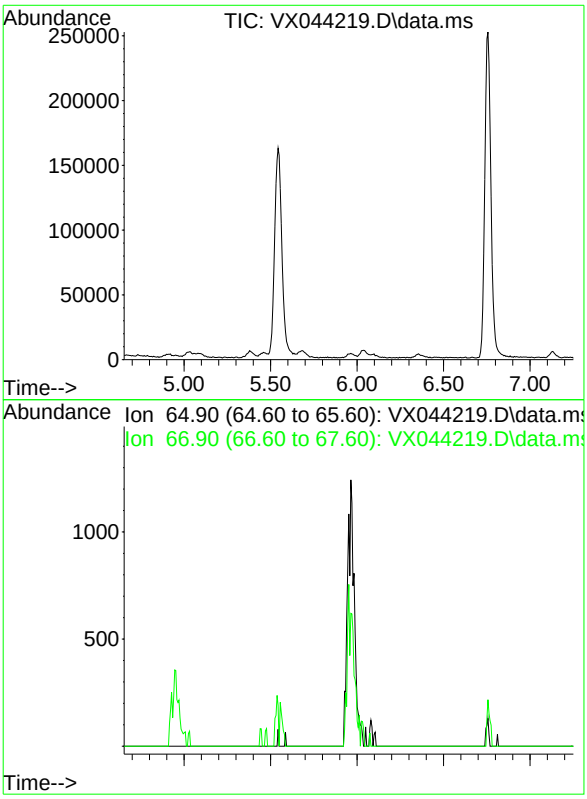
Tgt Ion: 97 Resp: 2818

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.8	76.2#
61	49.9	35.2	52.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



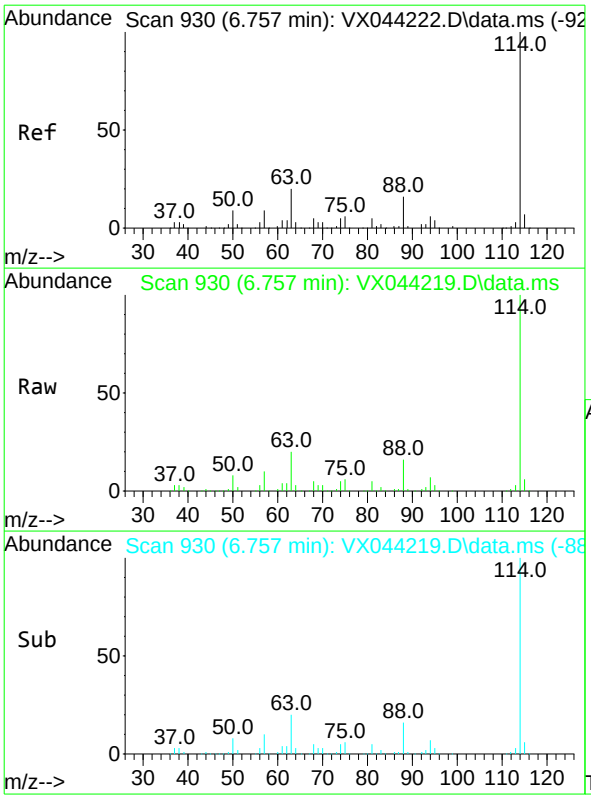


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.95 min

Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	50.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

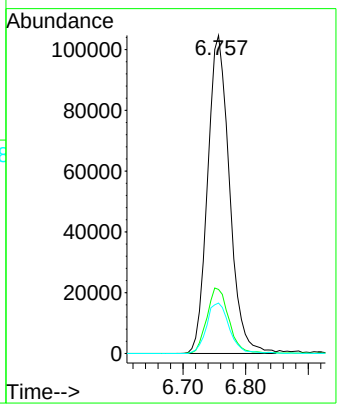
Tgt Ion:114 Resp: 253574

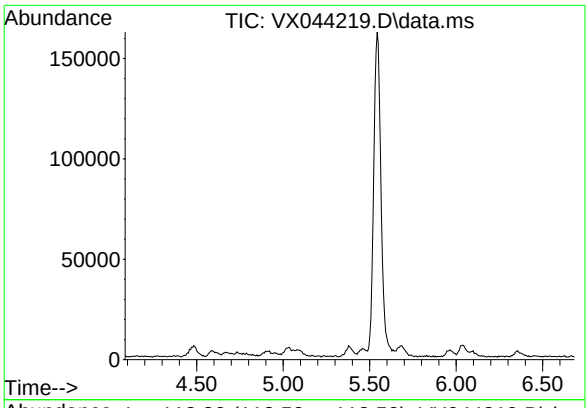
Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	40.6
88	15.8	0.0	31.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



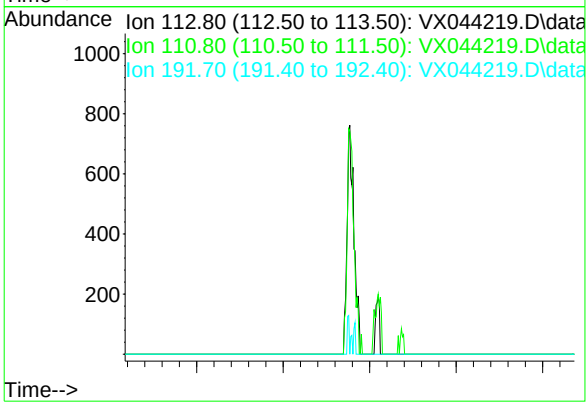


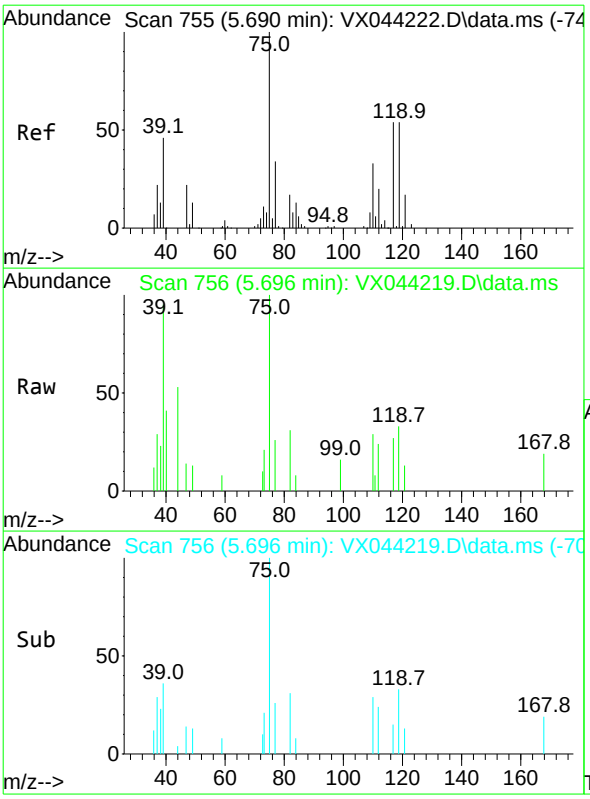
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.39 min

Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	100.5
192	16.6

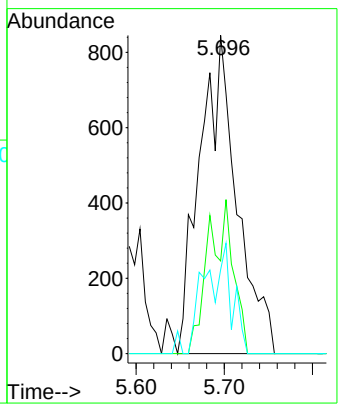




#36
1,1-Dichloropropene
Concen: 1.092 ug/l m
RT: 5.696 min Scan# 75
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 2479

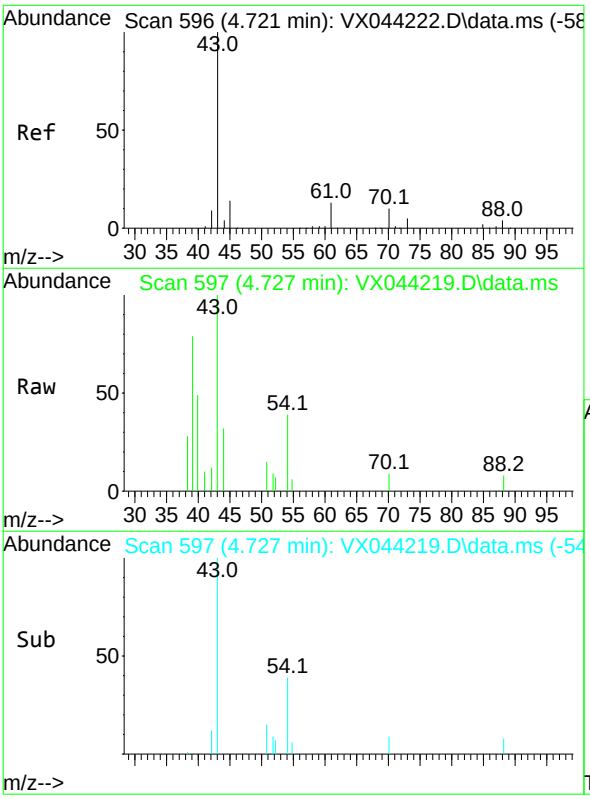
Ion	Ratio	Lower	Upper
75	100		
110	18.4	17.3	51.7
77	12.7	25.4	38.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

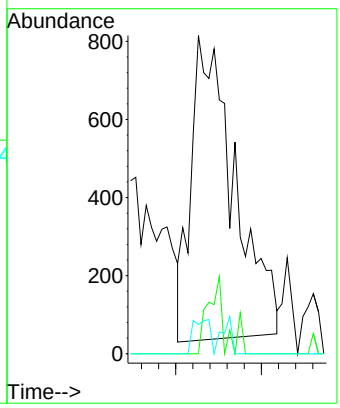
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

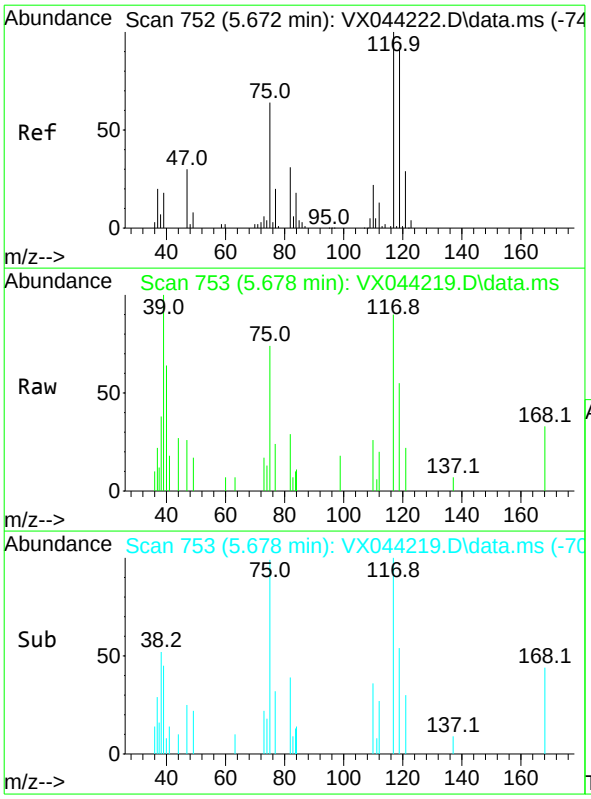


#37
Ethyl Acetate
Concen: 0.969 ug/l
RT: 4.727 min Scan# 597
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 2718

Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.8	14.8#
70	0.0	7.7	11.5#

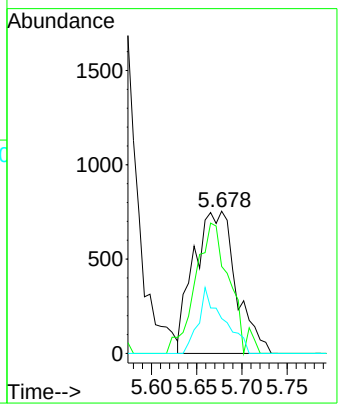




#38
Carbon Tetrachloride
Concen: 1.004 ug/l
RT: 5.678 min Scan# 75
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:117 Resp: 2454

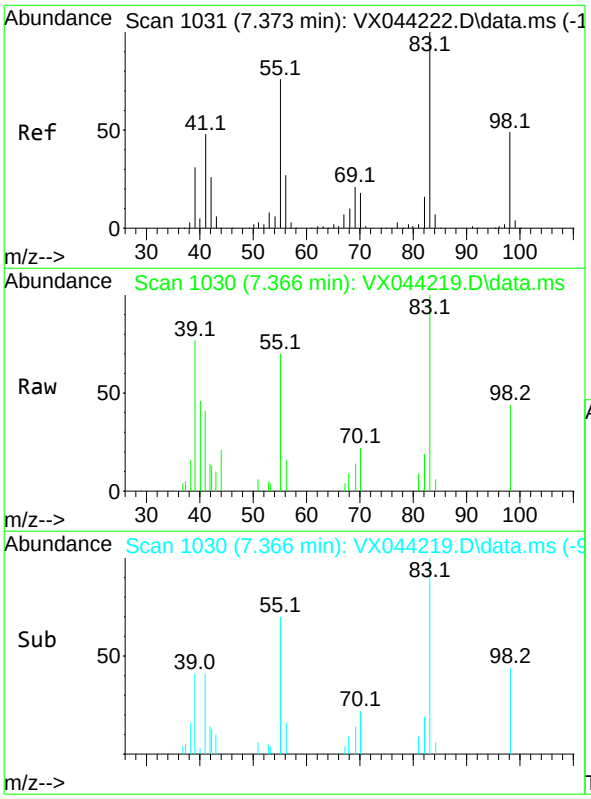
Ion	Ratio	Lower	Upper
117	100		
119	61.1	74.2	111.4#
121	24.5	23.0	34.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

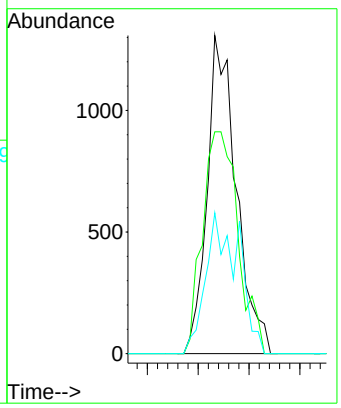
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

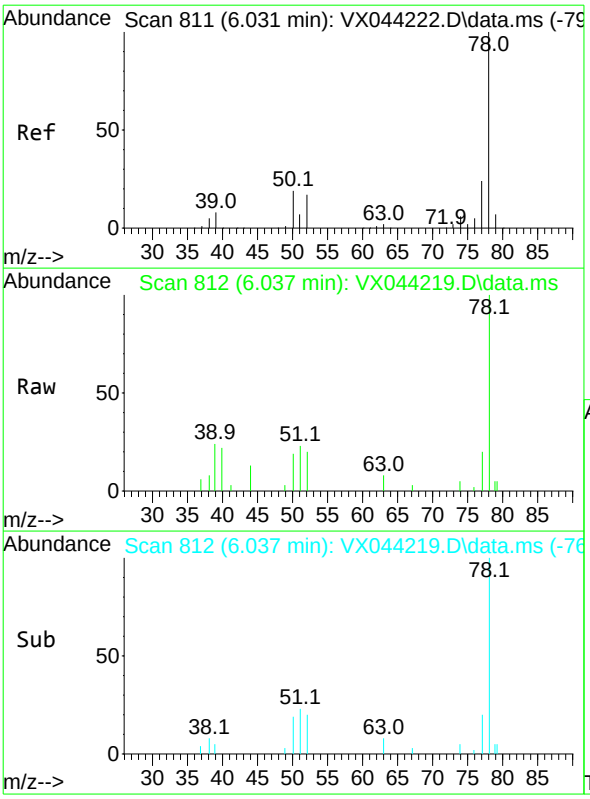


#39
Methylcyclohexane
Concen: 0.960 ug/l
RT: 7.366 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 83 Resp: 2606

Ion	Ratio	Lower	Upper
83	100		
55	69.7	60.7	91.1
98	44.3	38.9	58.3

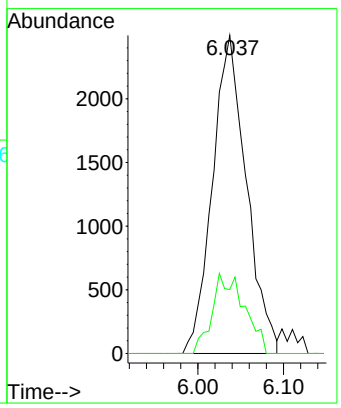




#40
Benzene
Concen: 0.996 ug/l
RT: 6.037 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 78 Resp: 6864

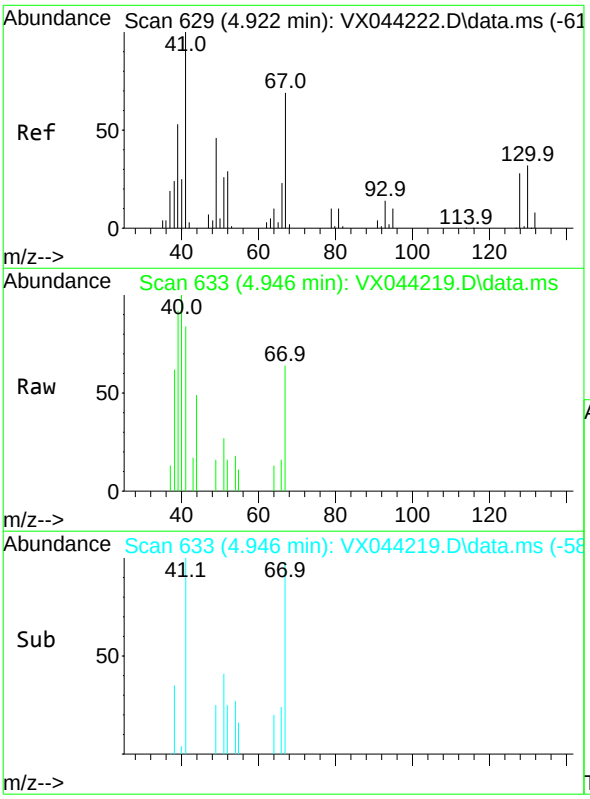
Ion	Ratio	Lower	Upper
78	100		
77	20.1	19.3	28.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

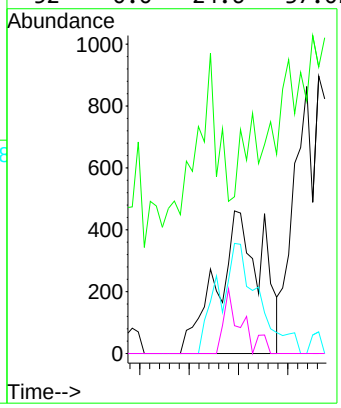
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

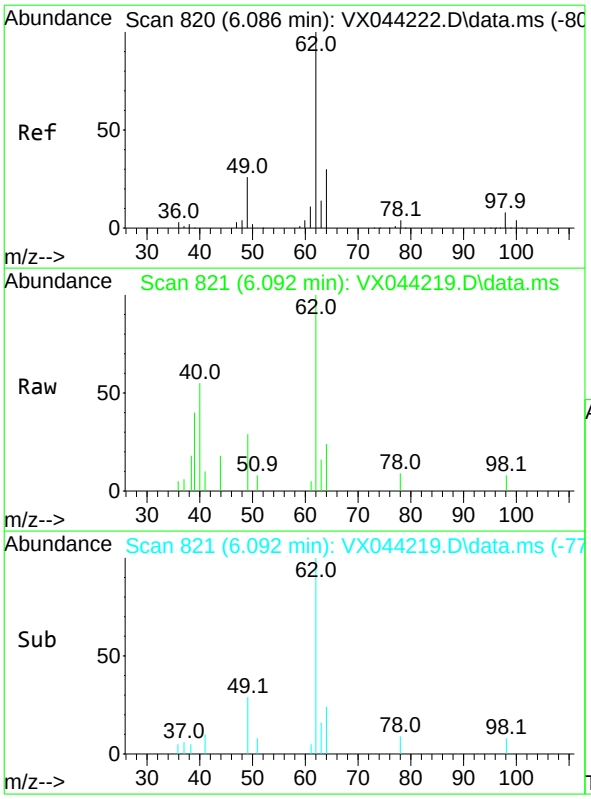


#41
Methacrylonitrile
Concen: 0.971 ug/l m
RT: 4.946 min Scan# 633
Delta R.T. 0.024 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 41 Resp: 1447

Ion	Ratio	Lower	Upper
41	100		
39	58.5	44.2	66.4
67	0.0	57.2	85.8#
52	0.0	24.6	37.0#

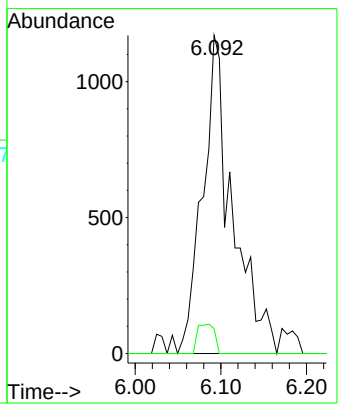




#42
1,2-Dichloroethane
Concen: 0.990 ug/l
RT: 6.092 min Scan# 82
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 62 Resp: 2810

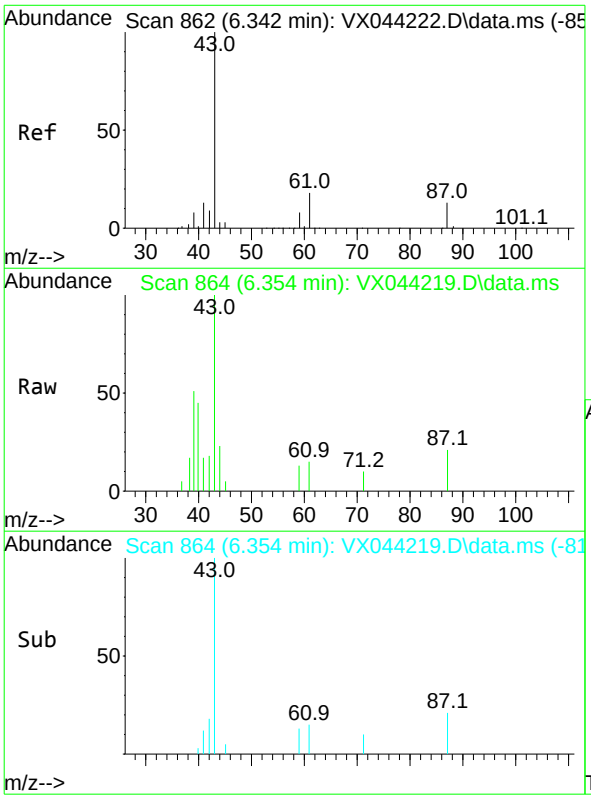
Ion	Ratio	Lower	Upper
62	100		
98	5.3	0.0	15.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

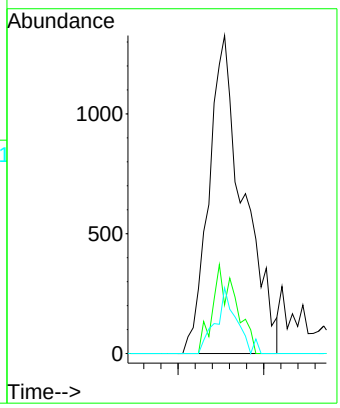
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

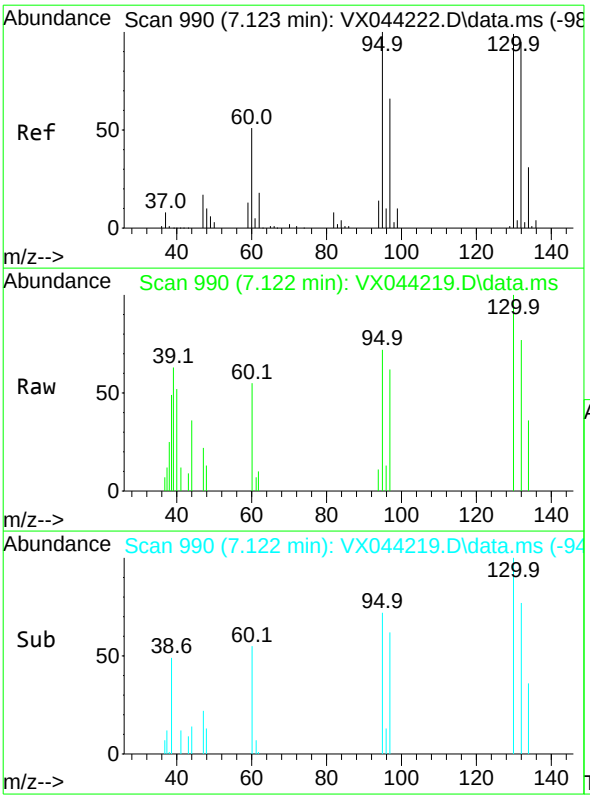


#43
Isopropyl Acetate
Concen: 0.851 ug/l
RT: 6.354 min Scan# 864
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 3734

Ion	Ratio	Lower	Upper
43	100		
61	18.9	14.2	21.2
87	12.4	10.2	15.2





#44
Trichloroethene
Concen: 1.051 ug/l
RT: 7.122 min Scan# 99
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

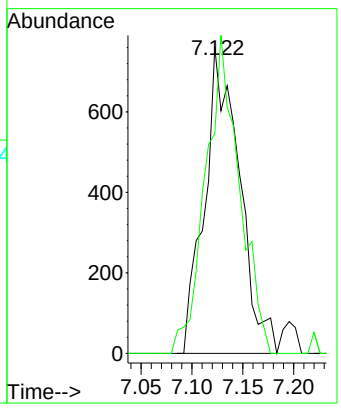
Tgt Ion:130 Resp: 1806

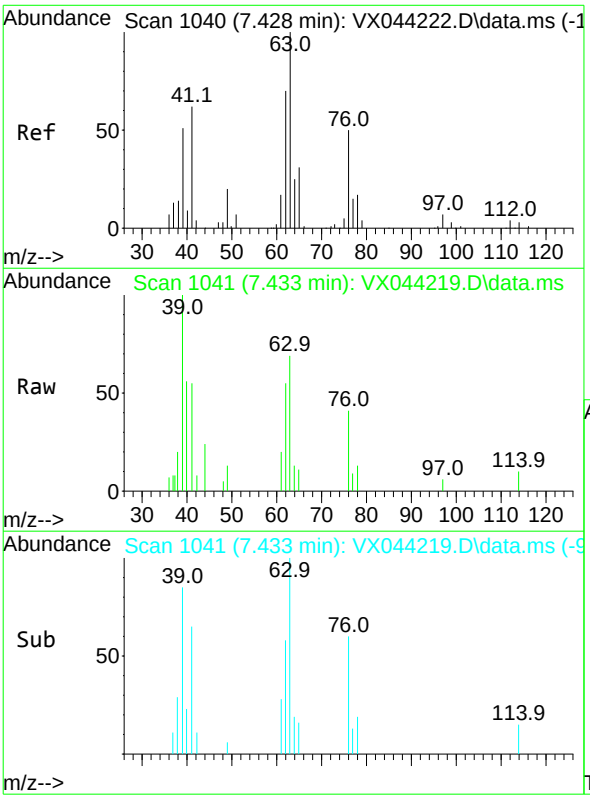
Ion	Ratio	Lower	Upper
130	100		
95	71.7	0.0	201.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

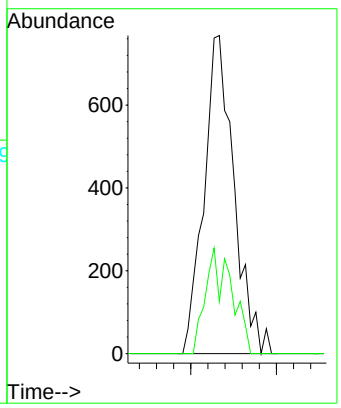


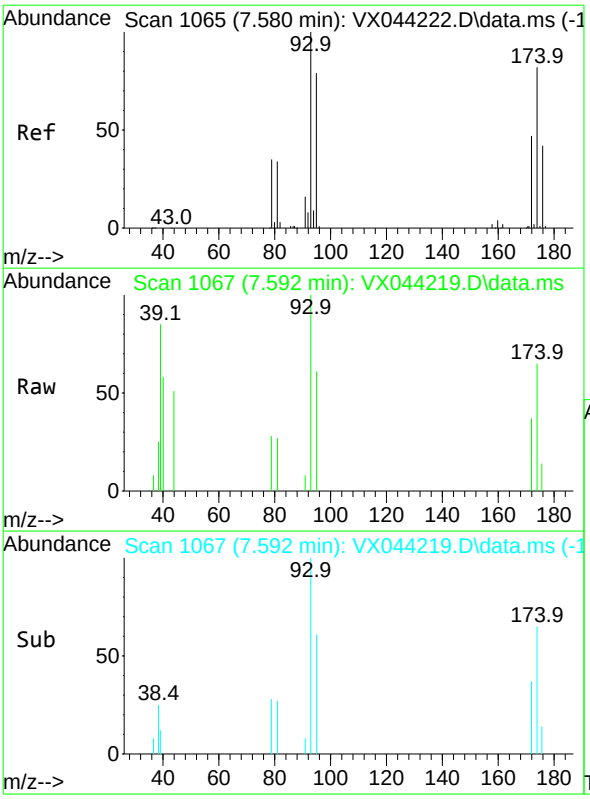


#45
1,2-Dichloropropane
Concen: 1.059 ug/l
RT: 7.433 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 63 Resp: 1865

Ion	Ratio	Lower	Upper
63	100		
65	16.4	24.6	37.0#

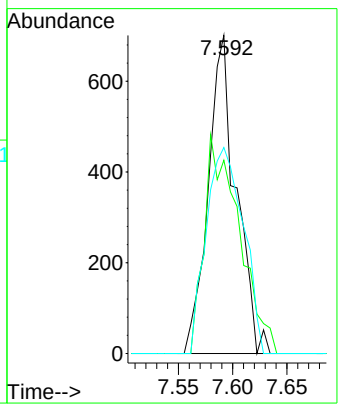




#46
Dibromomethane
Concen: 0.916 ug/l
RT: 7.592 min Scan# 10
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 93 Resp: 1251

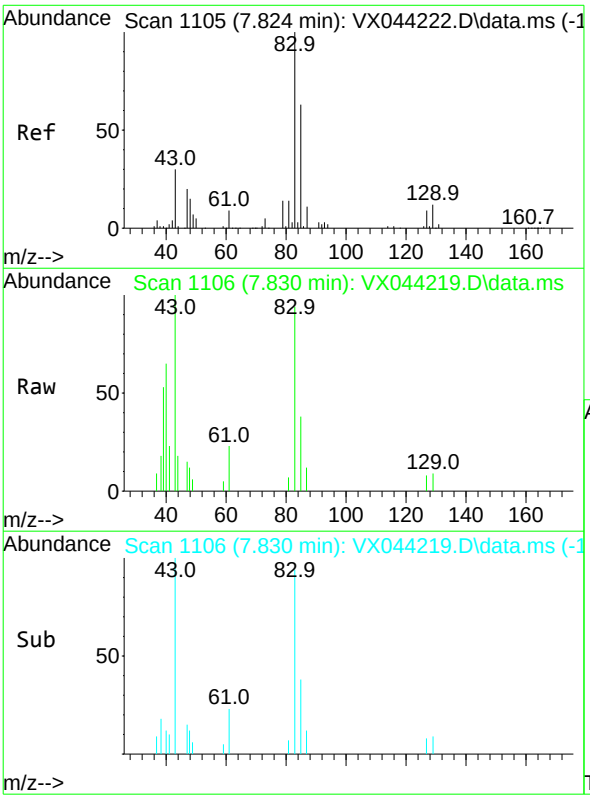
Ion	Ratio	Lower	Upper
93	100		
95	85.8	65.4	98.2
174	86.3	67.9	101.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

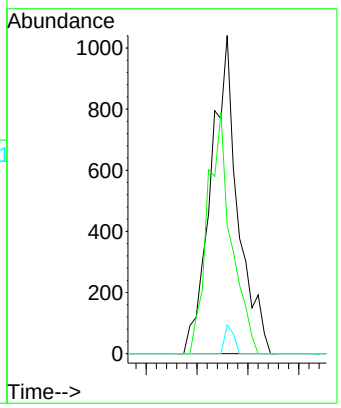
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

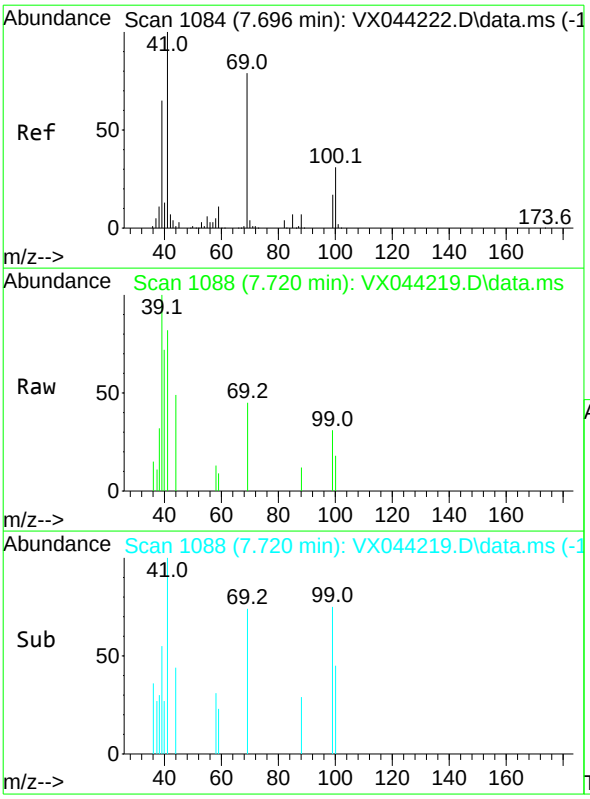


#47
Bromodichloromethane
Concen: 0.816 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 83 Resp: 1926

Ion	Ratio	Lower	Upper
83	100		
85	40.3	50.6	75.8#
127	9.0	7.3	10.9





#48
Methyl methacrylate
Concen: 1.018 ug/l
RT: 7.720 min Scan# 10
Delta R.T. 0.024 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

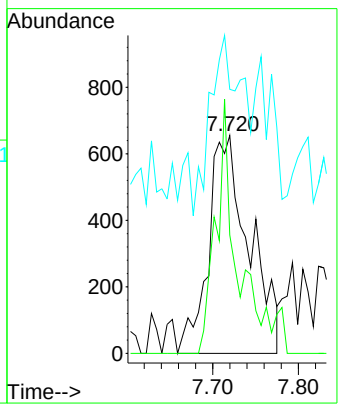
Tgt Ion: 41 Resp: 2168

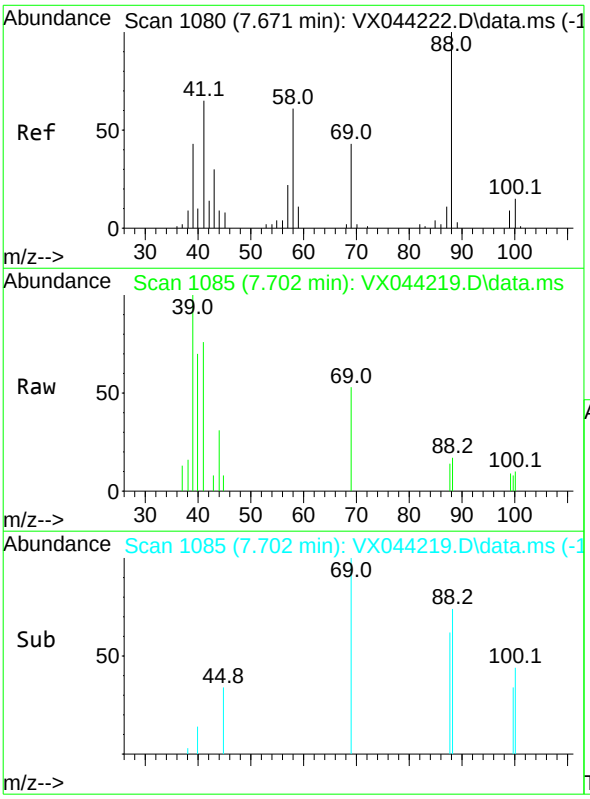
Ion	Ratio	Lower	Upper
41	100		
69	43.9	62.4	93.6#
39	64.1	53.3	79.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

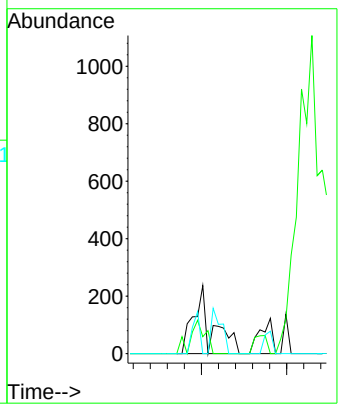


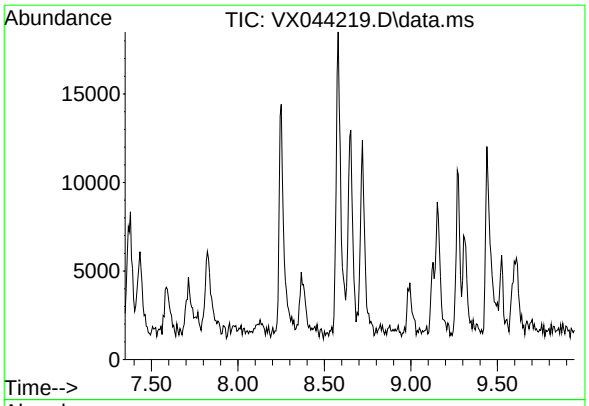


#49
1,4-Dioxane
Concen: 13.522 ug/l m
RT: 7.702 min Scan# 1085
Delta R.T. 0.030 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 88 Resp: 492

Ion	Ratio	Lower	Upper
88	100		
43	28.9	27.1	40.7
58	17.7	41.0	61.4#





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 8.65 min

Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

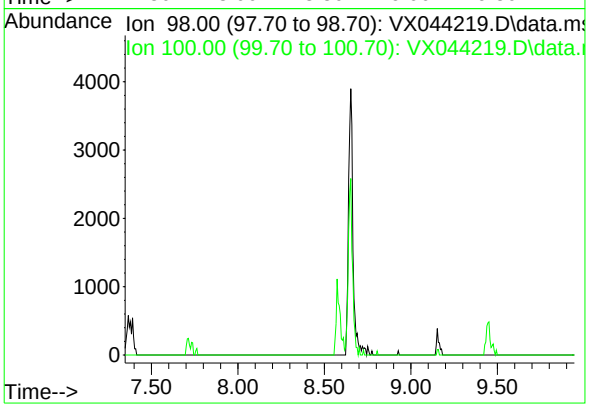
Tgt Ion: 98

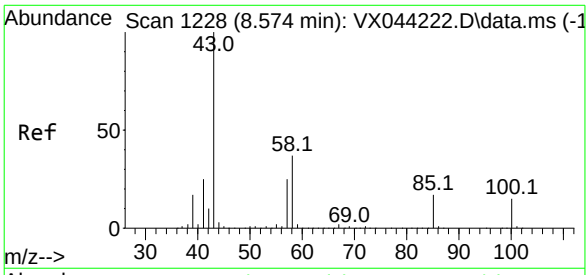
Sig	Exp Ratio
98	100
100	64.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

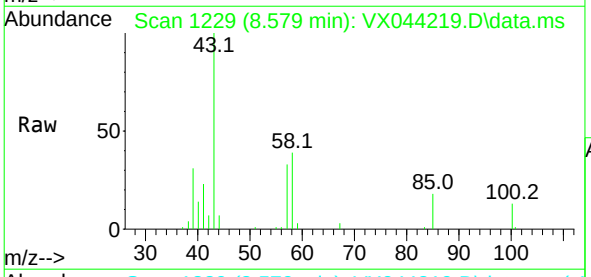


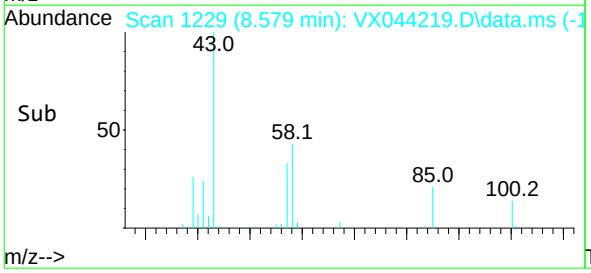


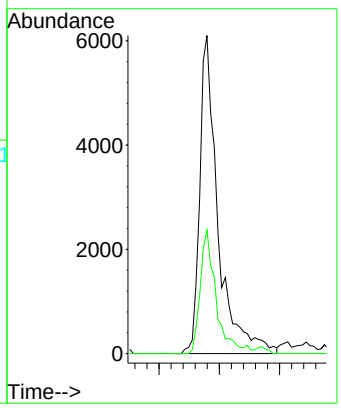
#51
4-Methyl-2-Pentanone
Concen: 4.547 ug/l
RT: 8.579 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

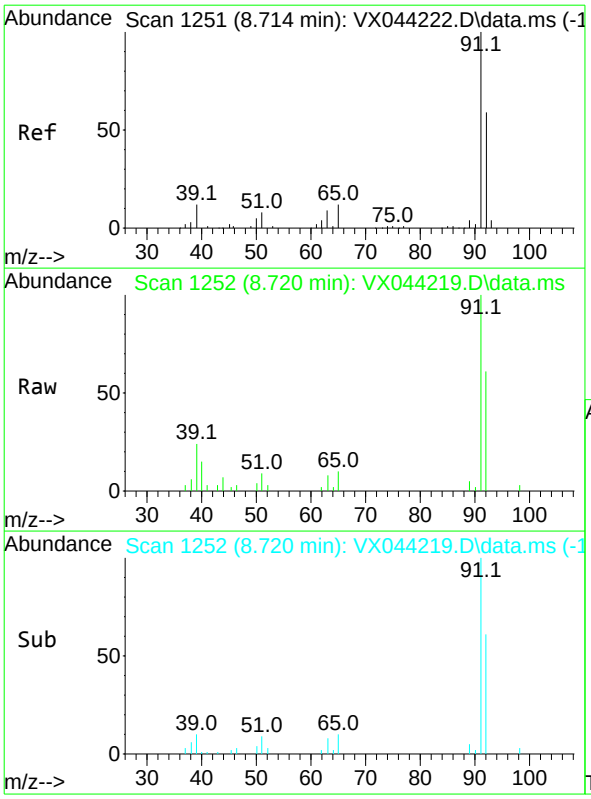
Tgt Ion: 43 Resp: 12824

Ion	Ratio	Lower	Upper
43	100		
58	34.0	29.4	44.0





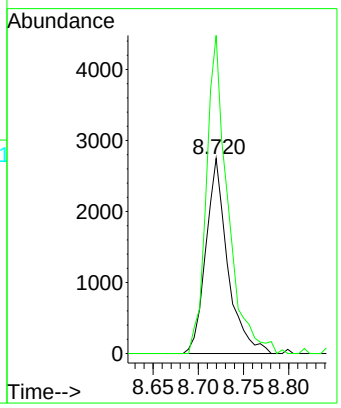




#52
Toluene
Concen: 1.064 ug/l
RT: 8.720 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 92 Resp: 4606

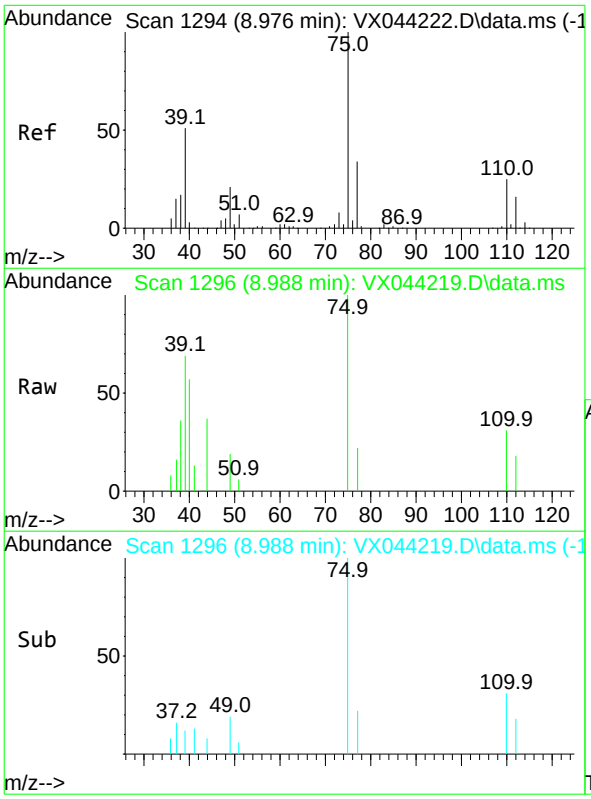
Ion	Ratio	Lower	Upper
92	100		
91	160.1	137.0	205.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

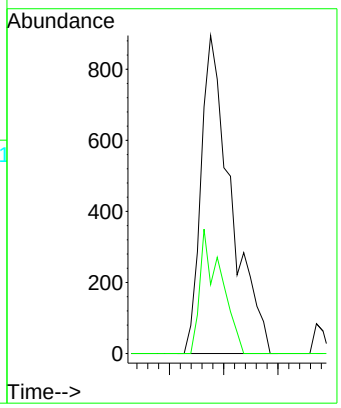
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

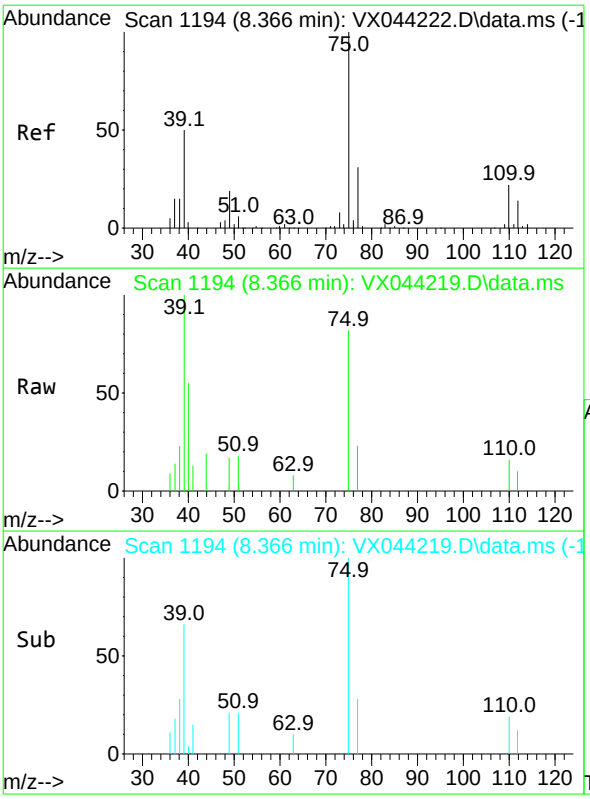


#53
t-1,3-Dichloropropene
Concen: 1.694 ug/l
RT: 8.988 min Scan# 1296
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 1716

Ion	Ratio	Lower	Upper
75	100		
77	21.7	27.2	40.8#

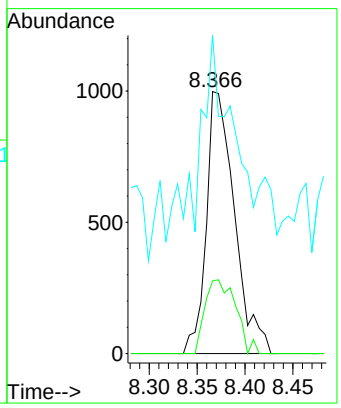




#54
cis-1,3-Dichloropropene
Concen: 0.797 ug/l
RT: 8.366 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 2048

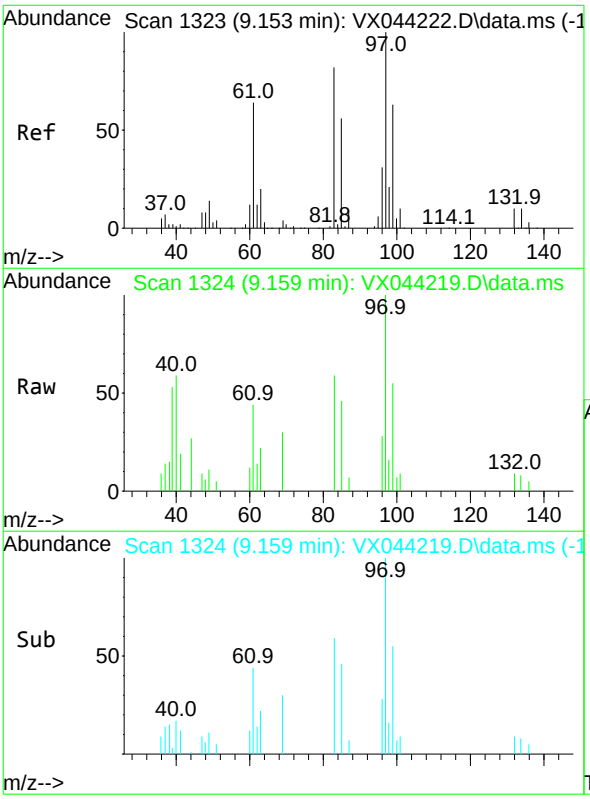
Ion	Ratio	Lower	Upper
75	100		
77	27.8	24.7	37.1
39	76.2	40.3	60.5#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

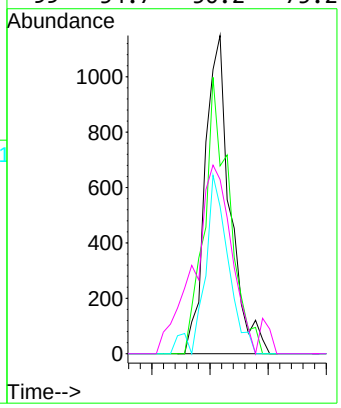
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

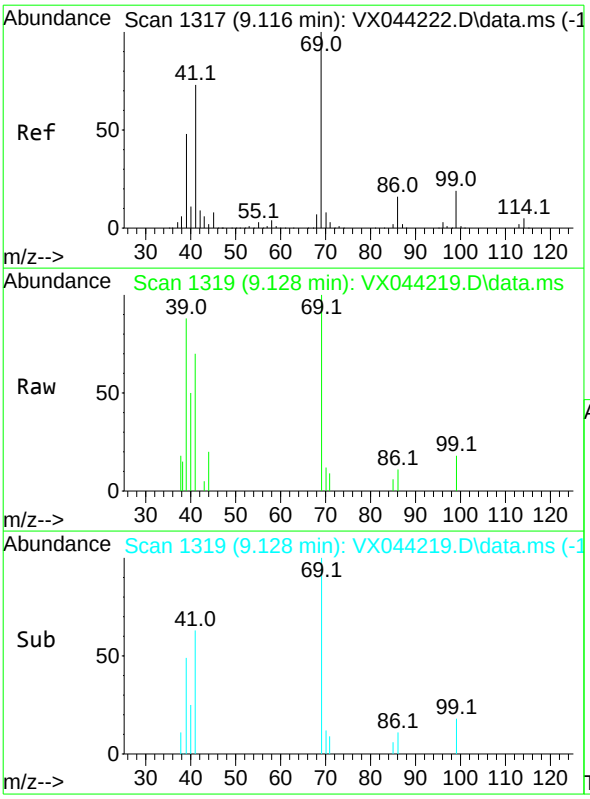


#55
1,1,2-Trichloroethane
Concen: 0.994 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 97 Resp: 1710

Ion	Ratio	Lower	Upper
97	100		
83	59.0	65.3	97.9#
85	46.3	44.6	67.0
99	54.7	50.2	75.2

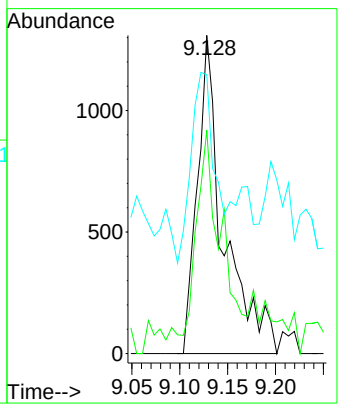




#56
Ethyl methacrylate
Concen: 0.917 ug/l
RT: 9.128 min Scan# 13
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 69 Resp: 2490

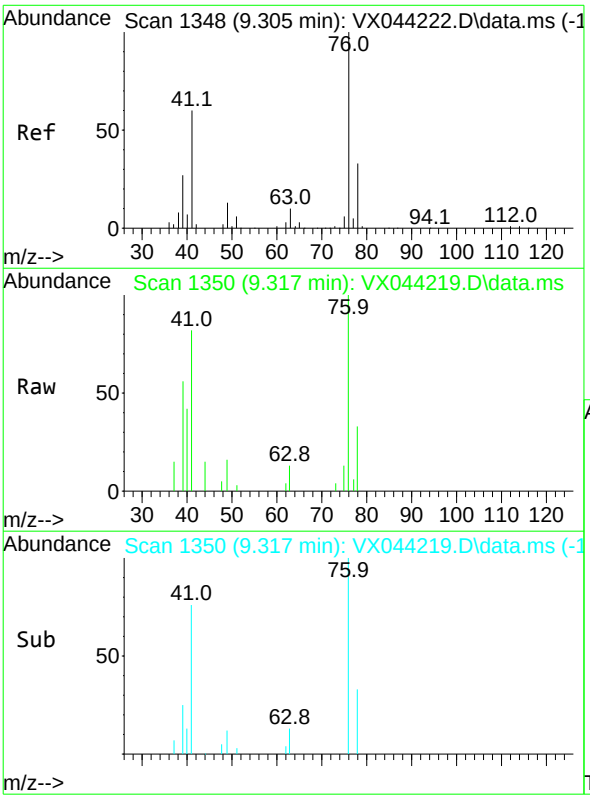
Ion	Ratio	Lower	Upper
69	100		
41	55.7	56.6	85.0#
39	53.1	37.4	56.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

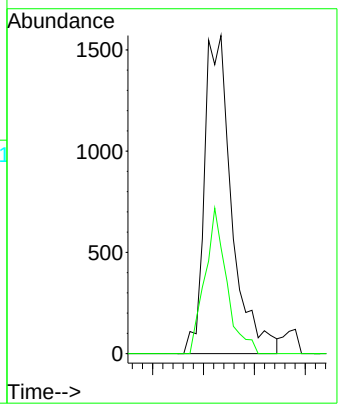
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

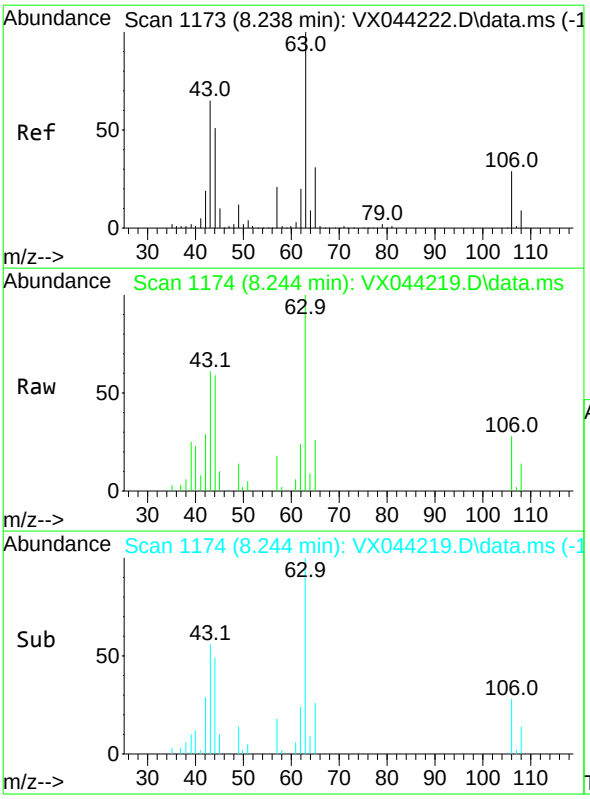


#57
1,3-Dichloropropane
Concen: 0.979 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 76 Resp: 2929

Ion	Ratio	Lower	Upper
76	100		
78	36.5	26.5	39.7

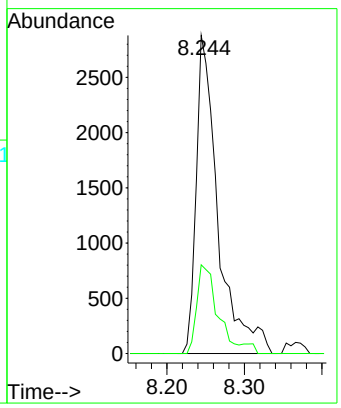




#58
2-Chloroethyl Vinyl ether
Concen: 4.105 ug/l
RT: 8.244 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 63 Resp: 5621

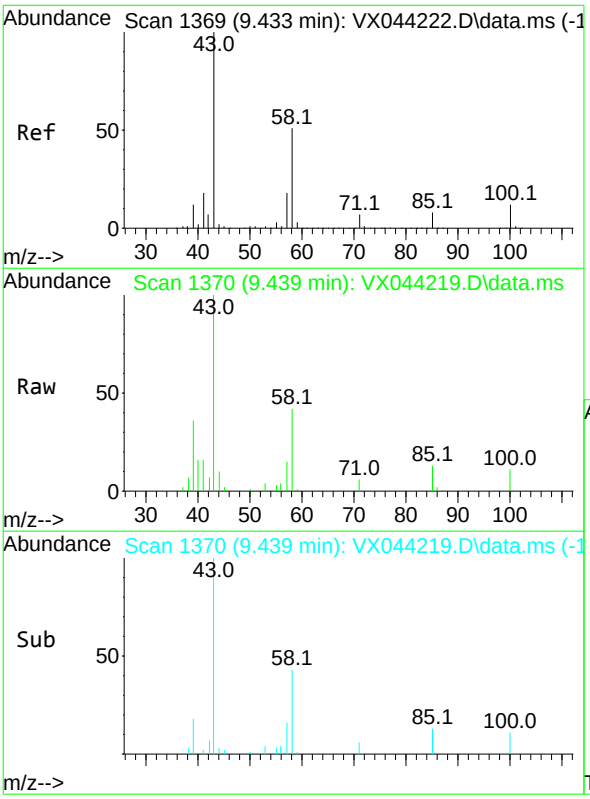
Ion	Ratio	Lower	Upper
63	100		
106	26.2	22.8	34.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

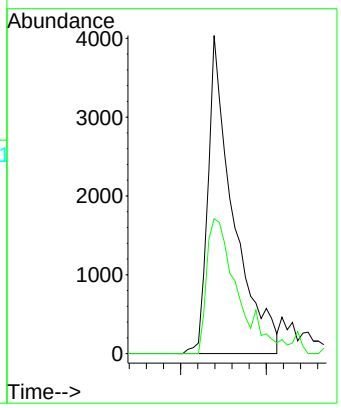
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

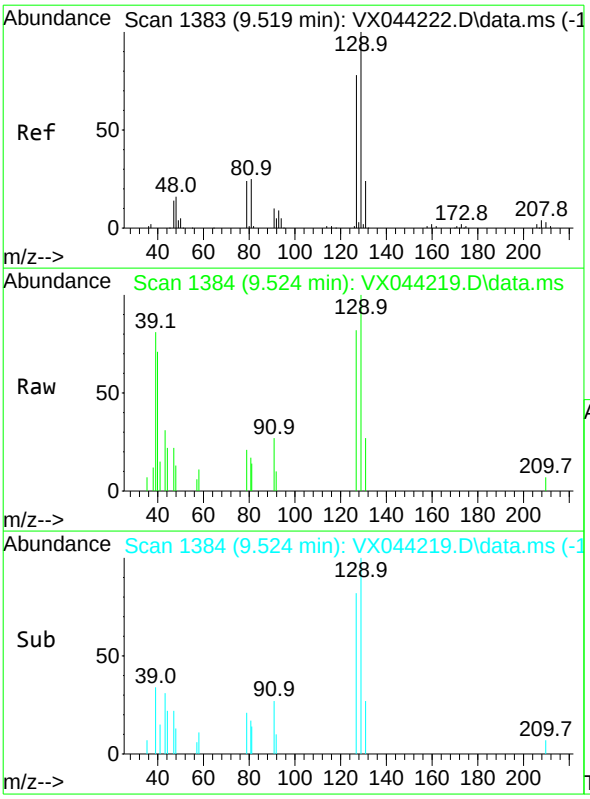


#59
2-Hexanone
Concen: 4.017 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 8199

Ion	Ratio	Lower	Upper
43	100		
58	52.5	25.7	77.0

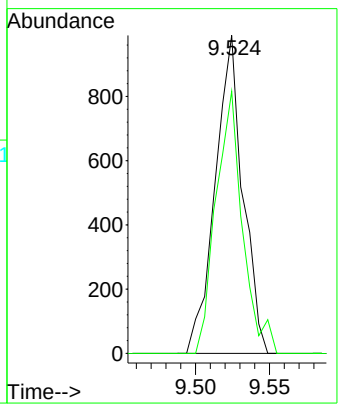




#60
Dibromochloromethane
Concen: 1.953 ug/l
RT: 9.524 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:129 Resp: 1289

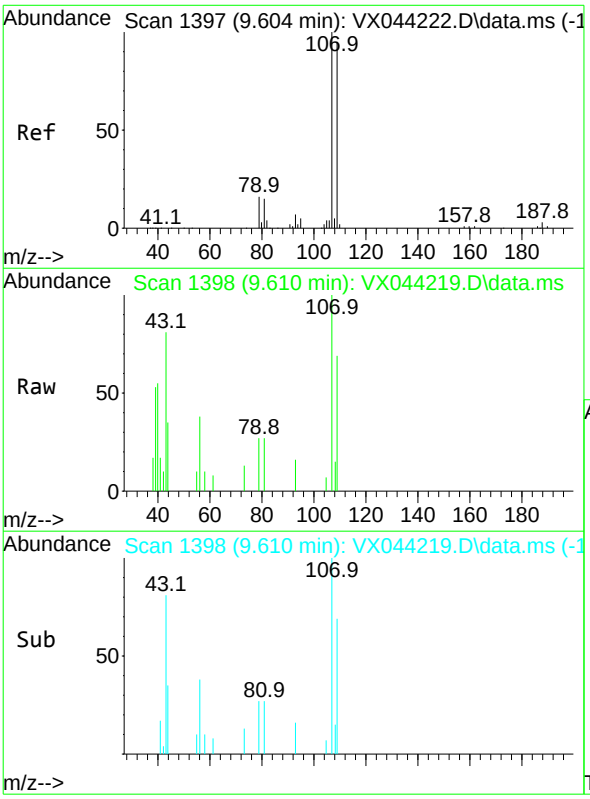
Ion	Ratio	Lower	Upper
129	100		
127	79.2	38.5	115.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

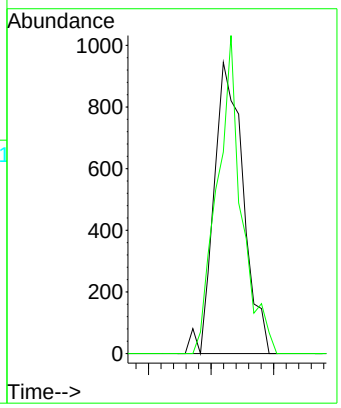
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

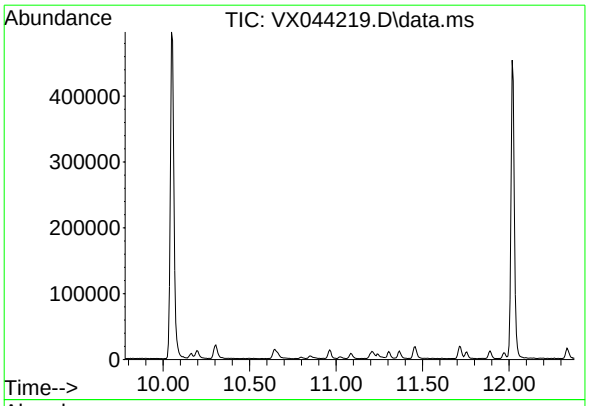


#61
1,2-Dibromoethane
Concen: 0.877 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:107 Resp: 1535

Ion	Ratio	Lower	Upper
107	100		
109	91.3	77.0	115.4





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.08 min

Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

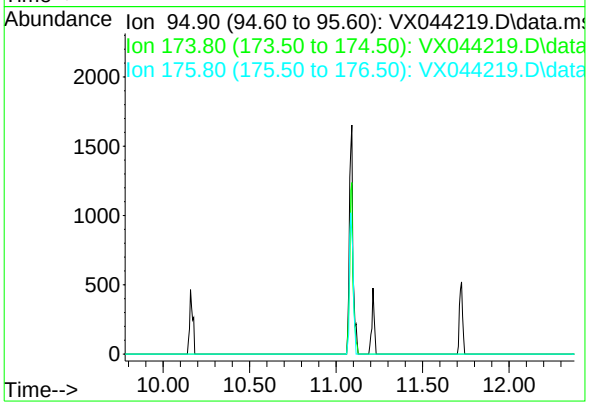
Tgt Ion: 95

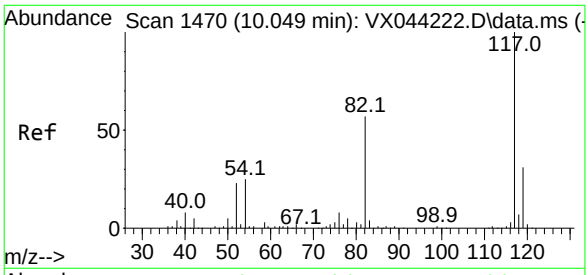
Sig	Exp Ratio
95	100
174	72.9
176	68.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

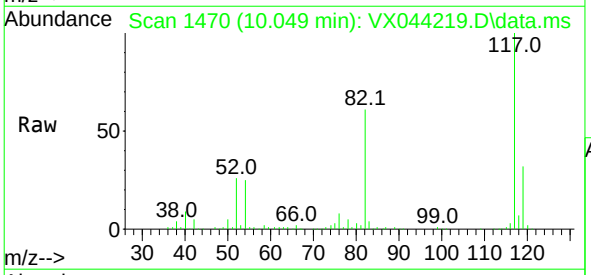


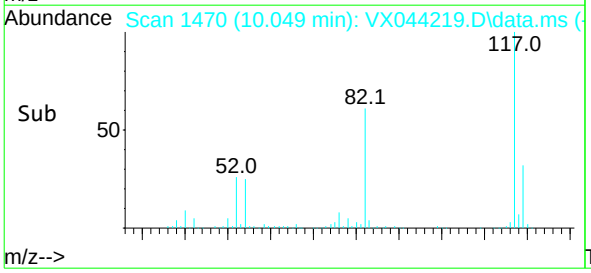


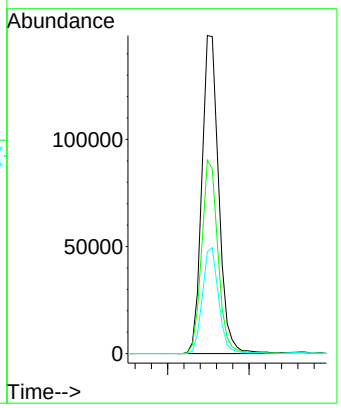
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

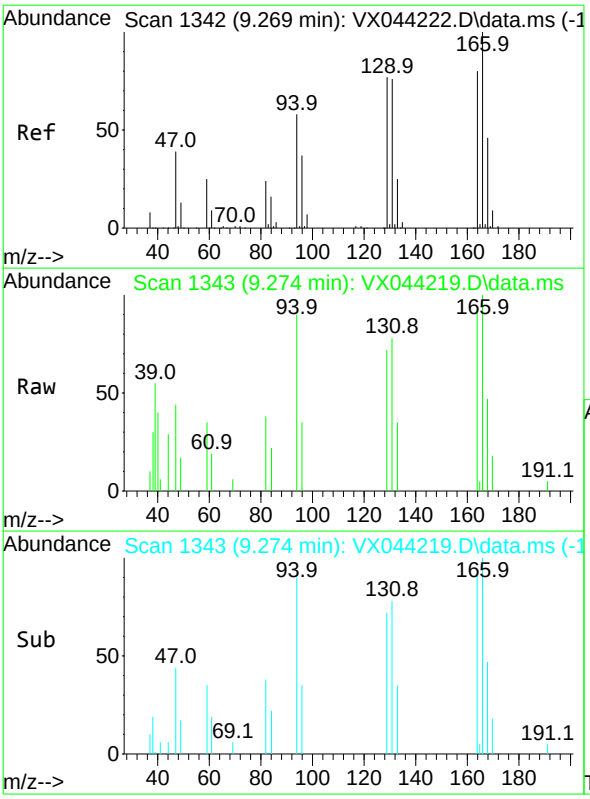
Tgt Ion:117 Resp: 213862

Ion	Ratio	Lower	Upper
117	100		
82	60.9	45.8	68.8
119	32.0	25.0	37.4









#64
Tetrachloroethene
Concen: 1.082 ug/l
RT: 9.274 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

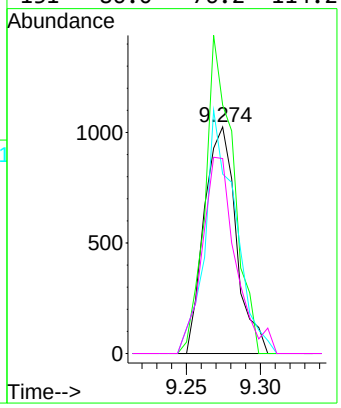
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

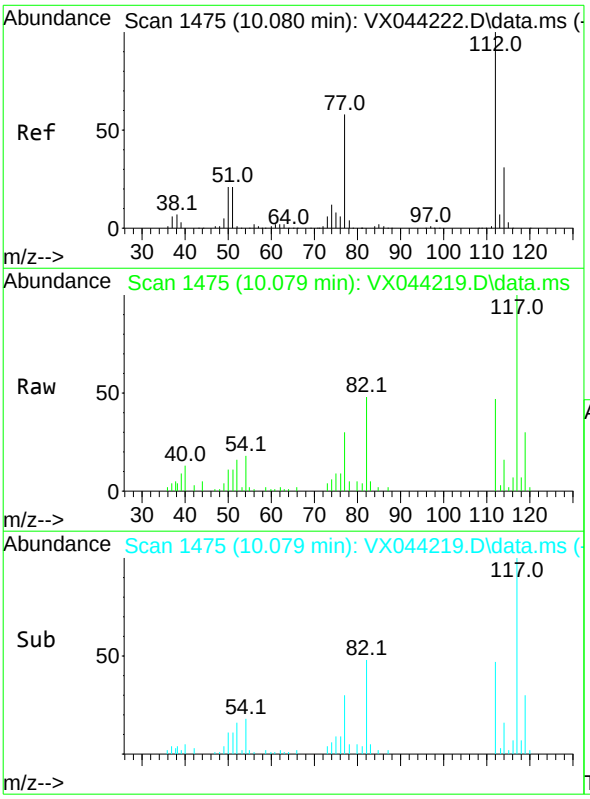
Tgt Ion:164 Resp: 1536

Ion	Ratio	Lower	Upper
164	100		
166	109.7	100.4	150.6
129	79.2	77.2	115.8
131	86.0	76.2	114.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

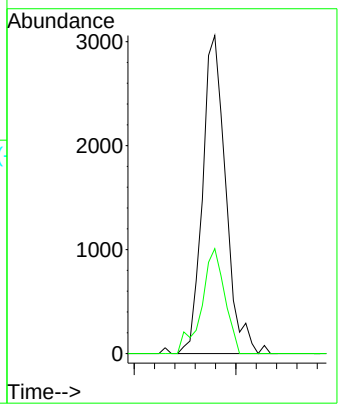


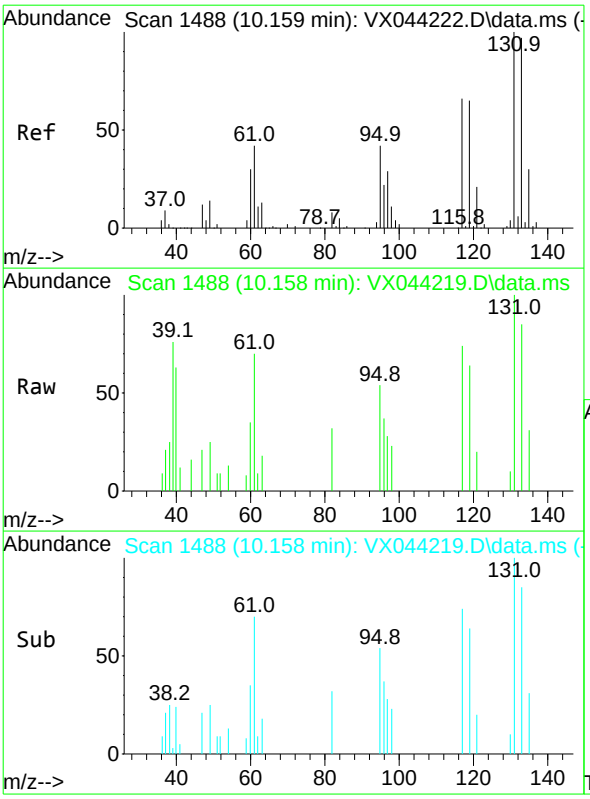


#65
Chlorobenzene
Concen: 1.055 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:112 Resp: 4835

Ion	Ratio	Lower	Upper
112	100		
114	33.0	25.0	37.6





#66
1,1,1,2-Tetrachloroethane
Concen: 0.875 ug/l
RT: 10.158 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

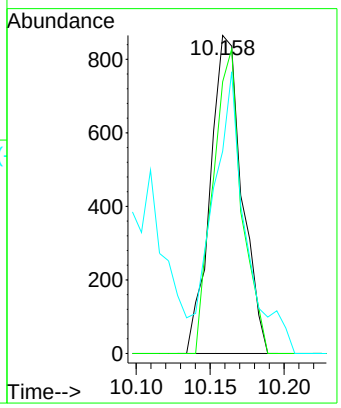
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

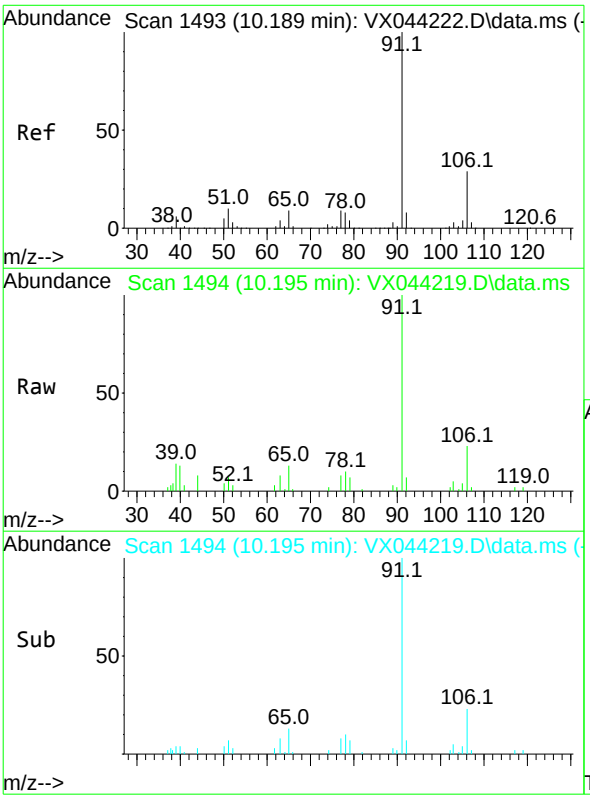
Tgt Ion:131 Resp: 1288

Ion	Ratio	Lower	Upper
131	100		
133	87.3	47.3	141.8
119	0.0	31.6	95.0#

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

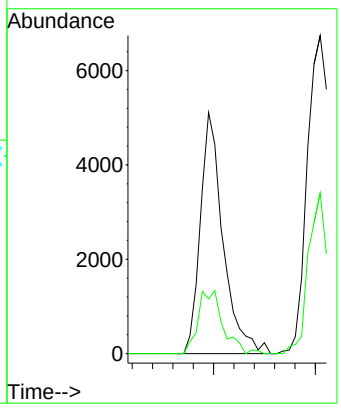


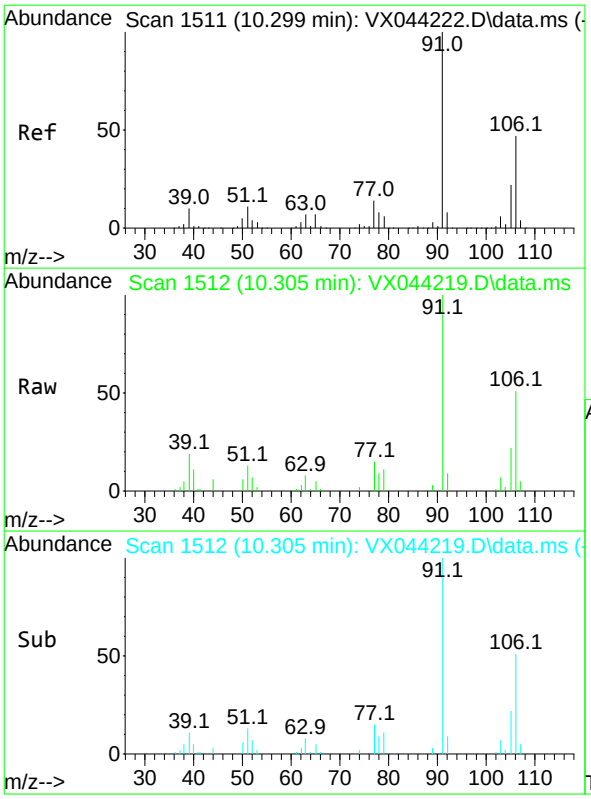


#67
Ethyl Benzene
Concen: 1.001 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 91 Resp: 7924

Ion	Ratio	Lower	Upper
91	100		
106	22.7	23.5	35.3#

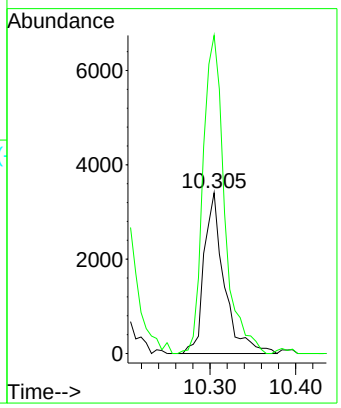




#68
m/p-Xylenes
Concen: 1.922 ug/l
RT: 10.305 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:106 Resp: 5583

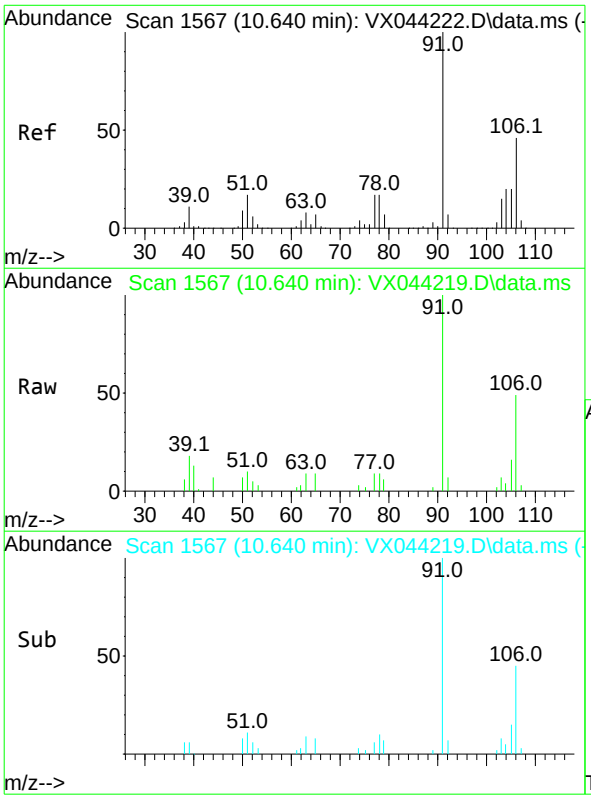
Ion	Ratio	Lower	Upper
106	100		
91	210.1	170.2	255.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

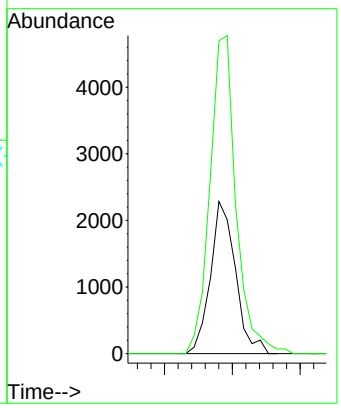
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

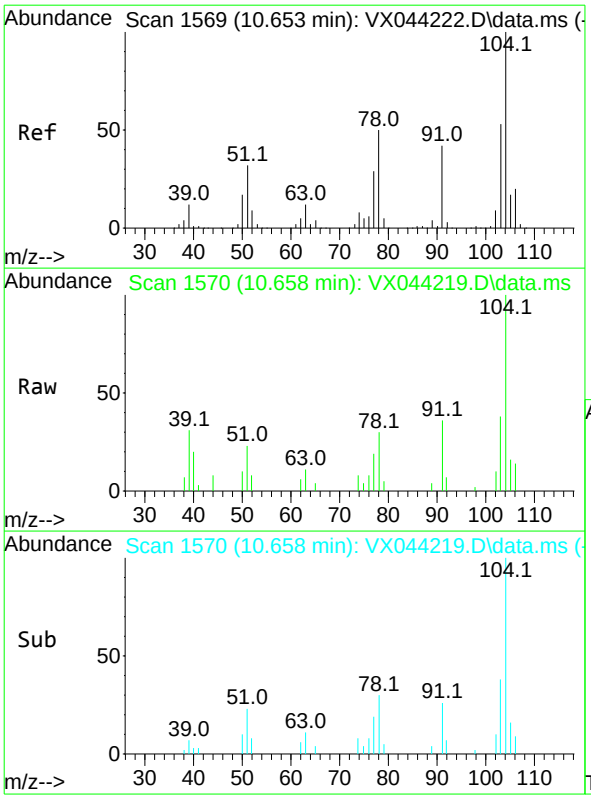


#69
o-Xylene
Concen: 0.998 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:106 Resp: 2933

Ion	Ratio	Lower	Upper
106	100		
91	218.2	112.3	337.0

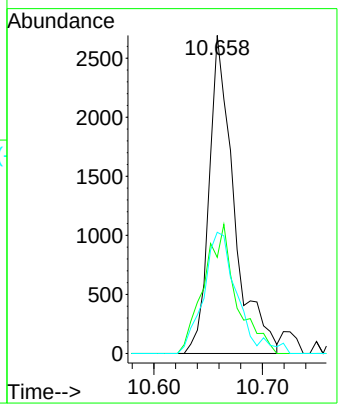




#70
Styrene
Concen: 0.914 ug/l
RT: 10.658 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:104 Resp: 4306

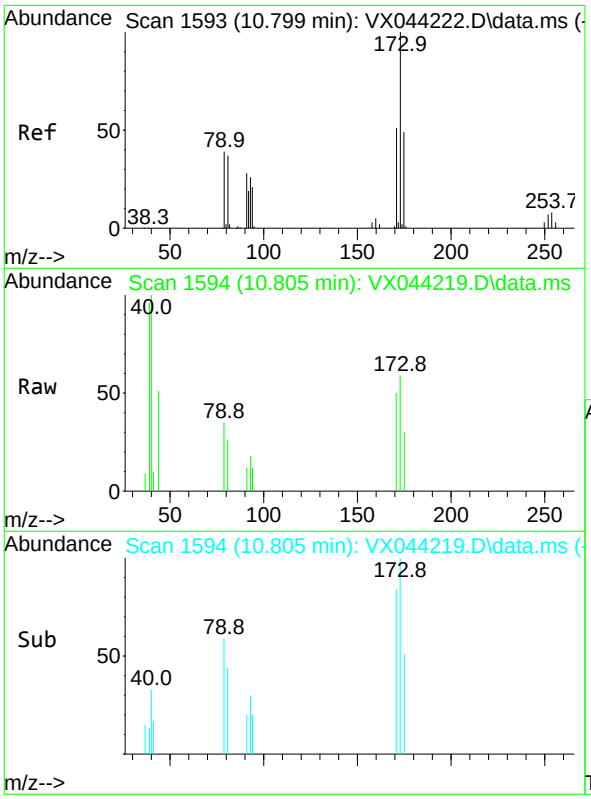
Ion	Ratio	Lower	Upper
104	100		
78	52.8	44.6	67.0
103	51.2	45.4	68.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

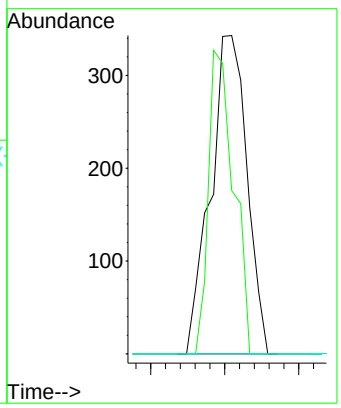
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

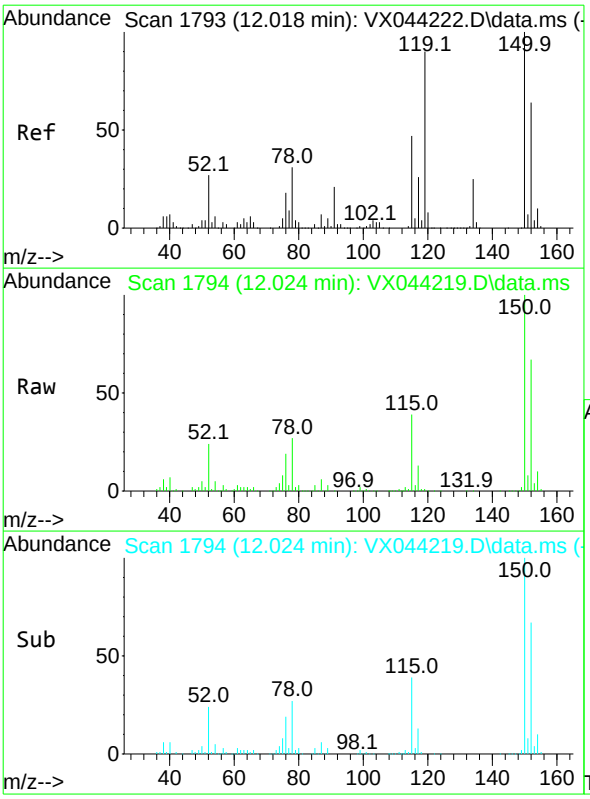


#71
Bromoform
Concen: 1.847 ug/l
RT: 10.805 min Scan# 1594
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:173 Resp: 584

Ion	Ratio	Lower	Upper
173	100		
175	66.1	23.8	71.4
254	0.0	0.0	0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

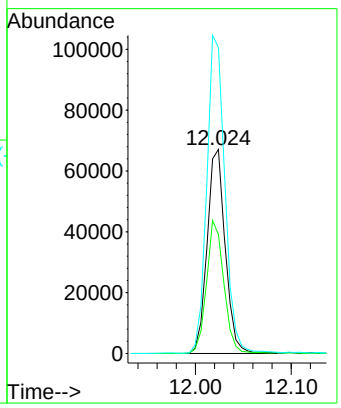
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

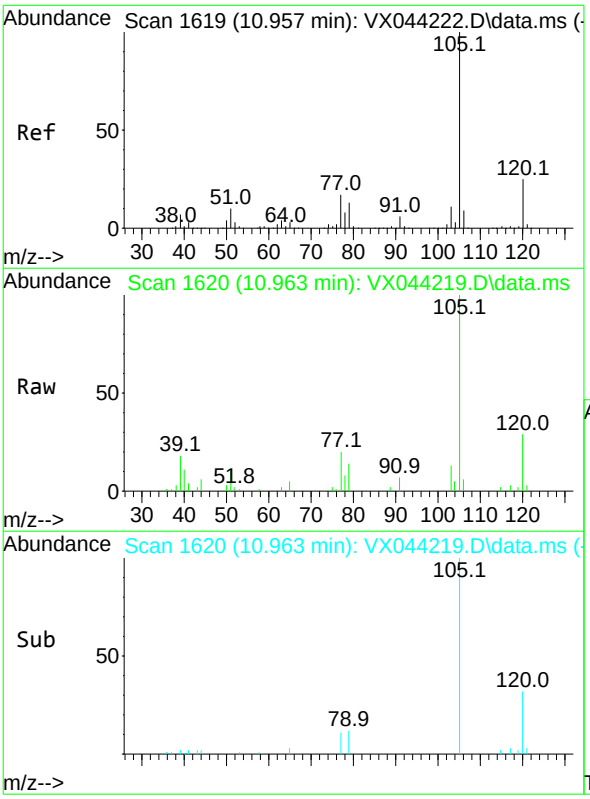
Tgt Ion:152 Resp: 88334

Ion	Ratio	Lower	Upper
152	100		
115	62.1	44.5	133.3
150	155.1	0.0	353.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

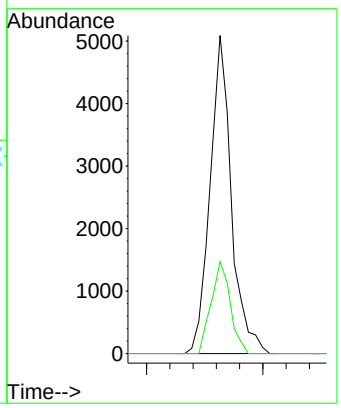


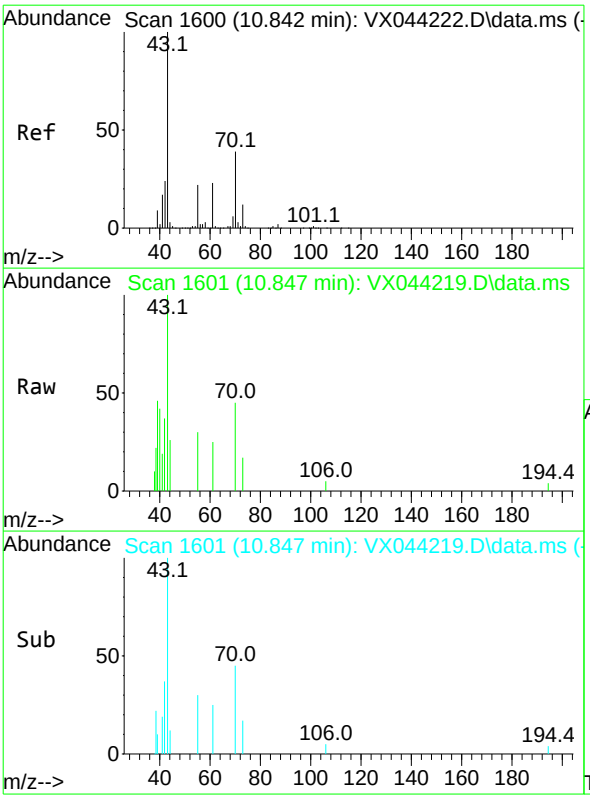


#73
Isopropylbenzene
Concen: 0.957 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:105 Resp: 6474

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.3

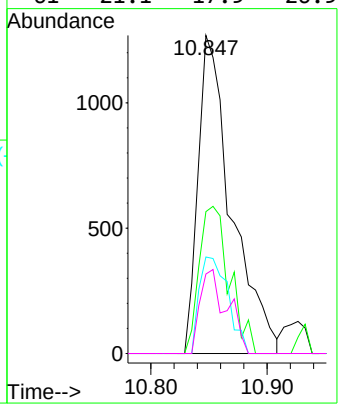




#74
N-amyl acetate
Concen: 0.811 ug/l
RT: 10.847 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 2536

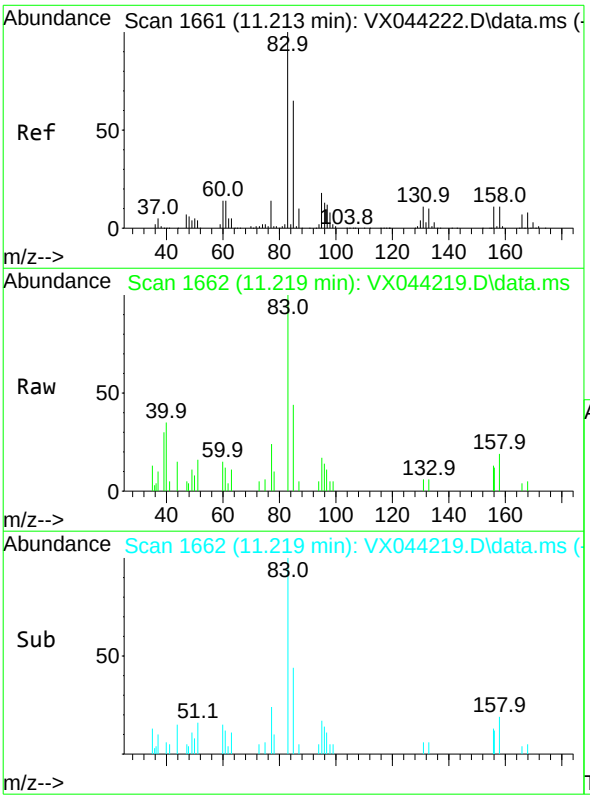
Ion	Ratio	Lower	Upper
43	100		
70	41.9	31.9	47.9
55	26.0	17.9	26.9
61	21.1	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

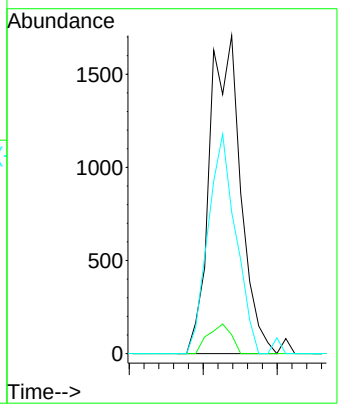
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

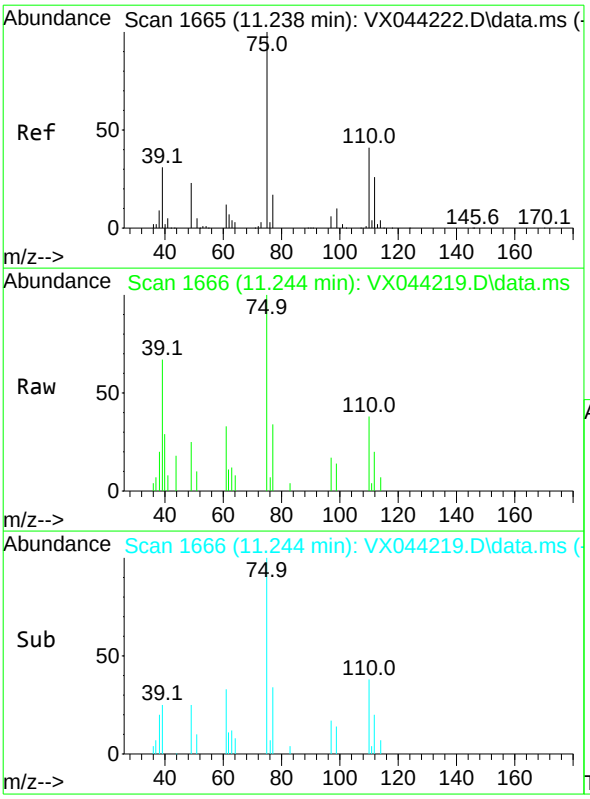


#75
1,1,2,2-Tetrachloroethane
Concen: 1.061 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 83 Resp: 2491

Ion	Ratio	Lower	Upper
83	100		
131	6.9	5.1	15.4
85	61.8	32.5	97.4

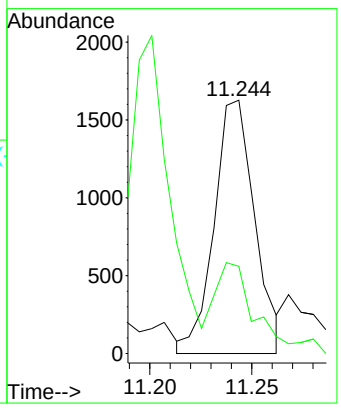




#76
1,2,3-Trichloropropane
Concen: 1.121 ug/l m
RT: 11.244 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 2248

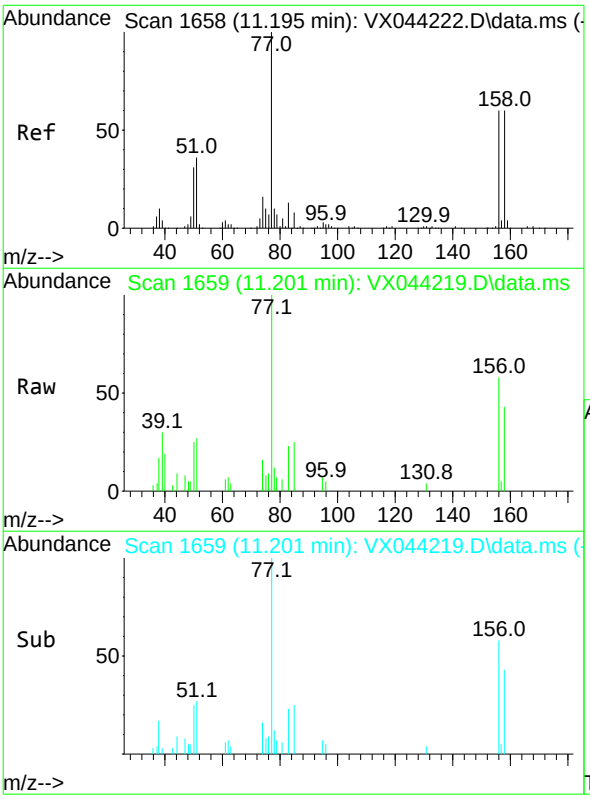
Ion	Ratio	Lower	Upper
75	100		
77	37.4	20.9	62.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

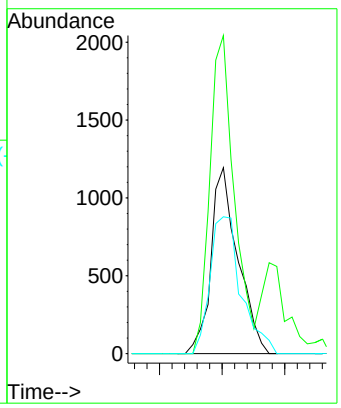
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

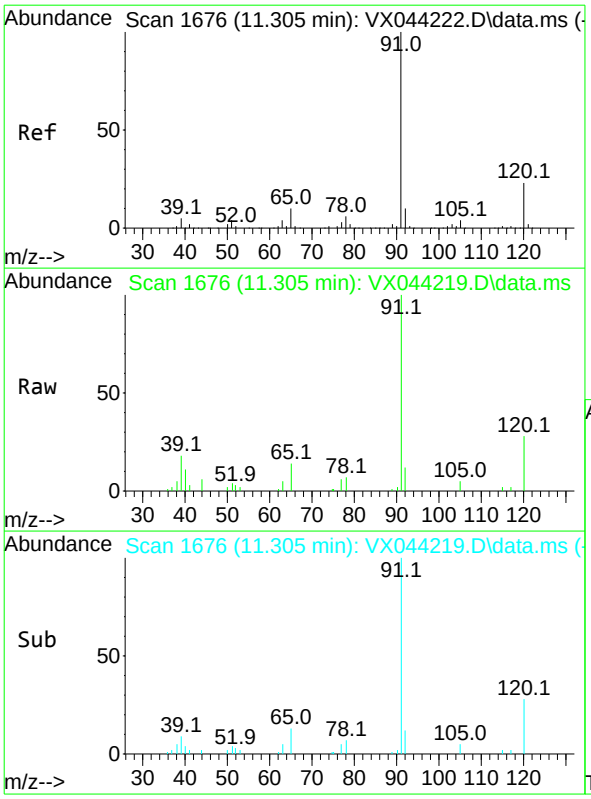


#77
Bromobenzene
Concen: 1.087 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:156 Resp: 1783

Ion	Ratio	Lower	Upper
156	100		
77	155.1	82.6	247.8
158	85.2	48.8	146.4

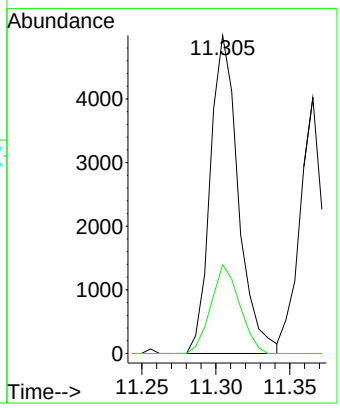




#78
n-propylbenzene
Concen: 0.884 ug/l
RT: 11.305 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 91 Resp: 6606

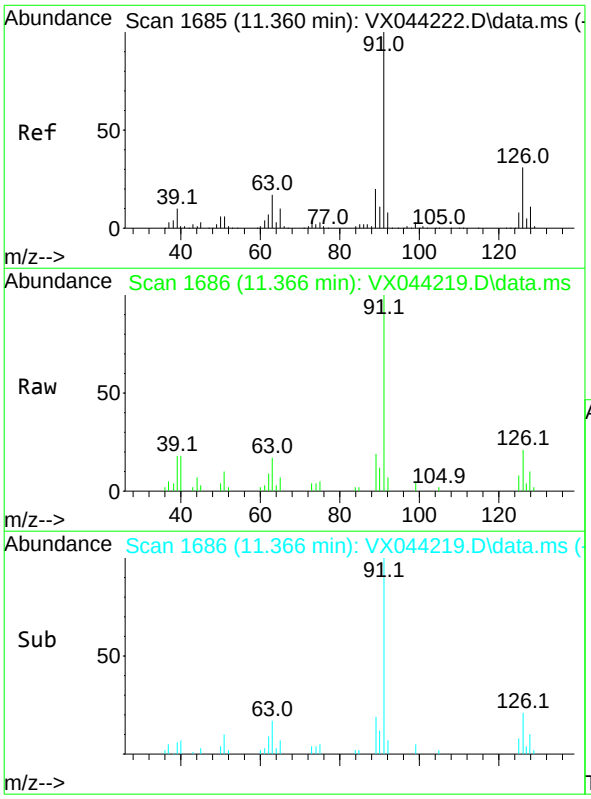
Ion	Ratio	Lower	Upper
91	100		
120	28.4	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

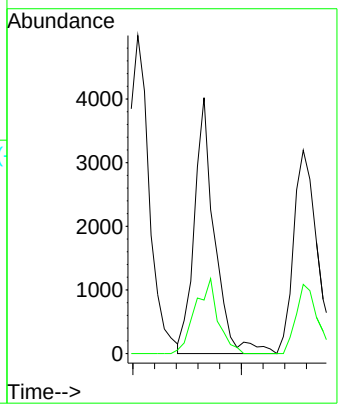
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

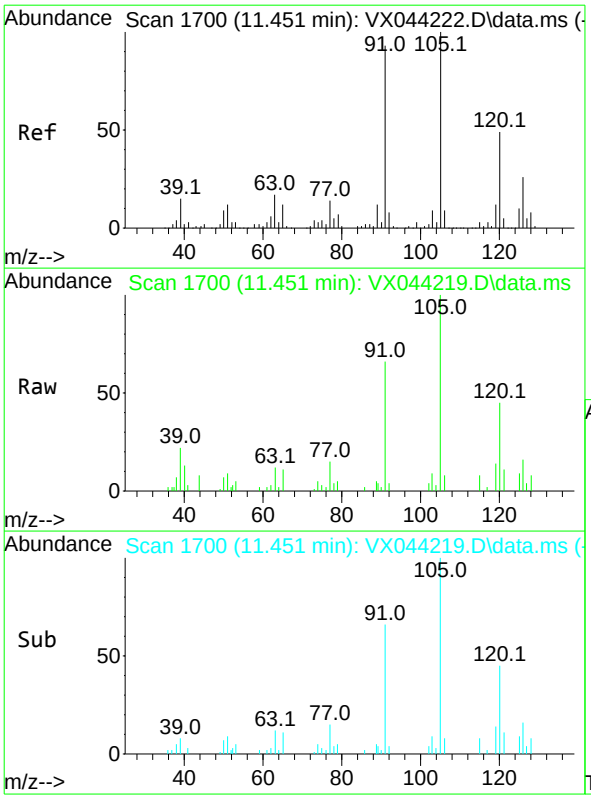


#79
2-Chlorotoluene
Concen: 1.075 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 91 Resp: 5194

Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.4	49.1

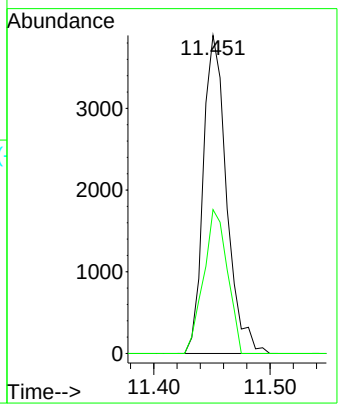




#80
1,3,5-Trimethylbenzene
Concen: 0.966 ug/l
RT: 11.451 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:105 Resp: 5417

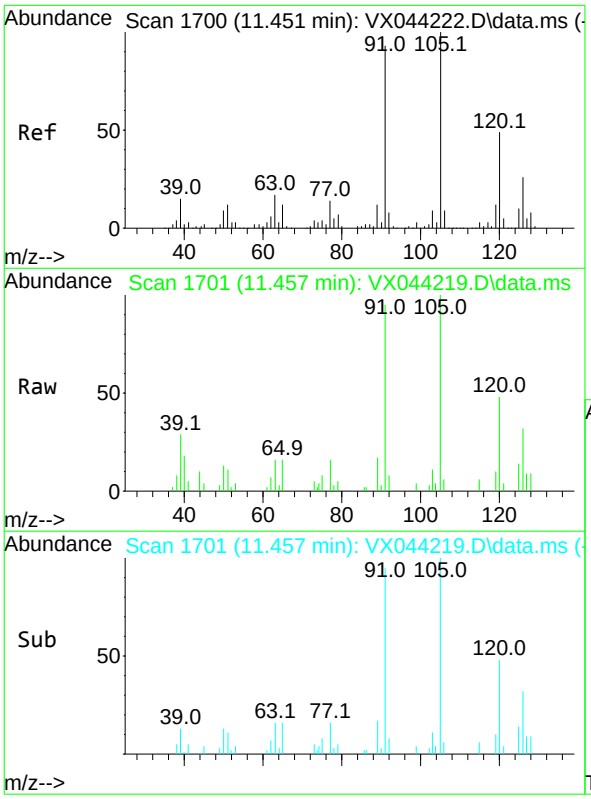
Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.8	71.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

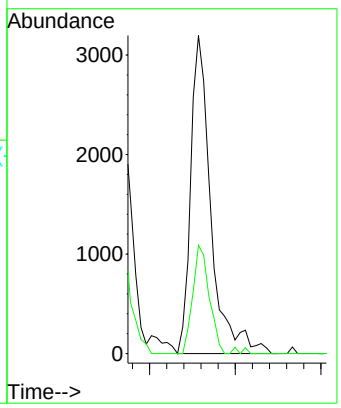
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

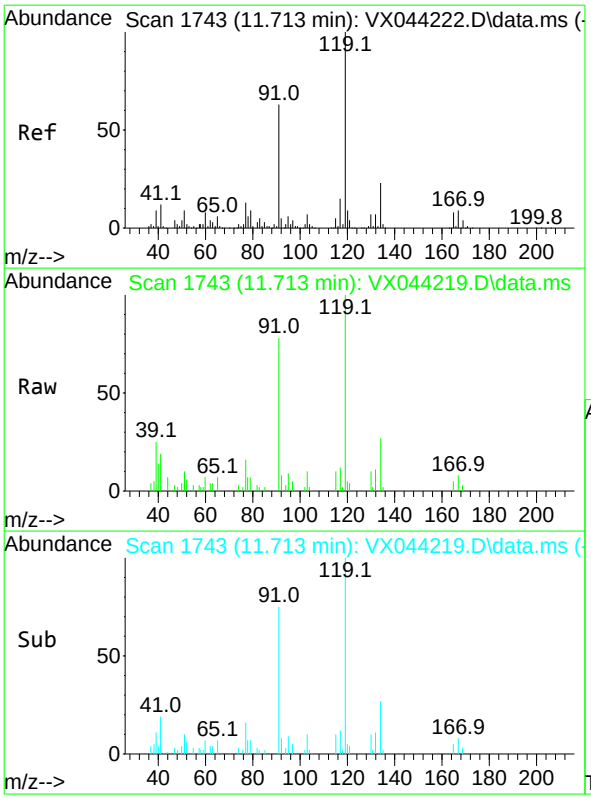


#82
4-Chlorotoluene
Concen: 0.978 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 91 Resp: 5236

Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.5	43.5

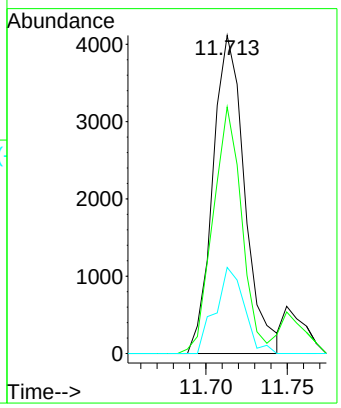




#83
tert-Butylbenzene
Concen: 1.011 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:119 Resp: 5601

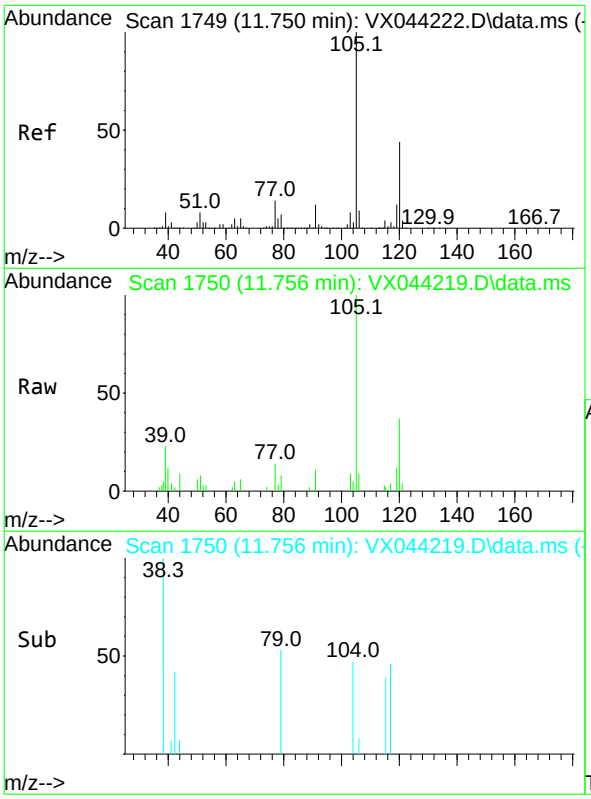
Ion	Ratio	Lower	Upper
119	100		
91	70.2	30.9	92.5
134	24.5	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

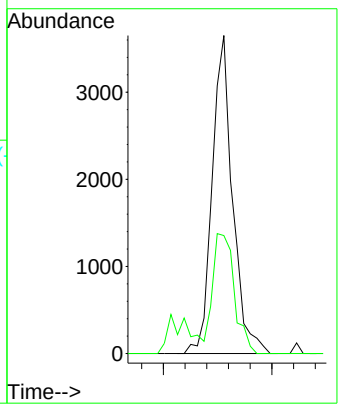
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

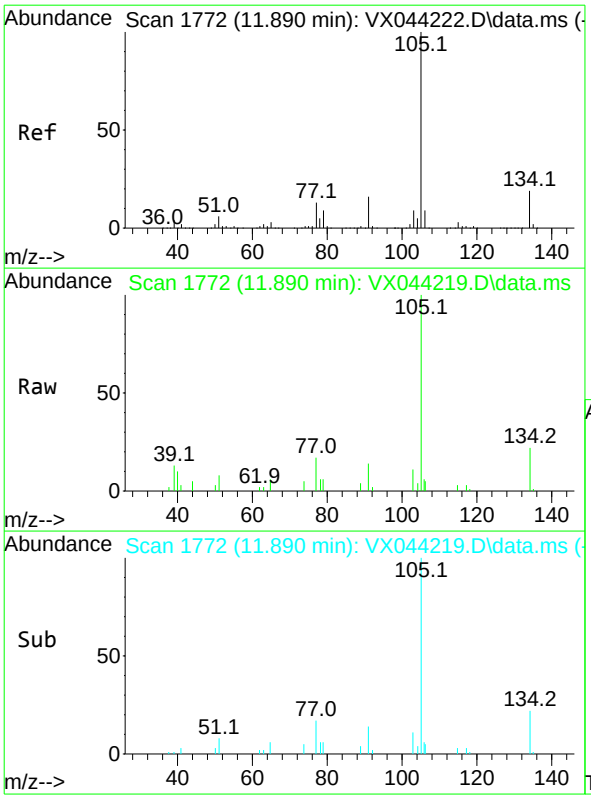


#84
1,2,4-Trimethylbenzene
Concen: 0.866 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:105 Resp: 4769

Ion	Ratio	Lower	Upper
105	100		
120	40.0	21.7	65.1





#85
sec-Butylbenzene
Concen: 0.966 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

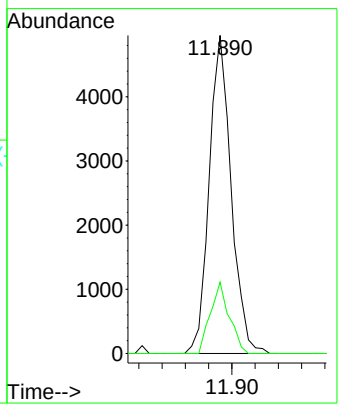
Tgt Ion:105 Resp: 6500

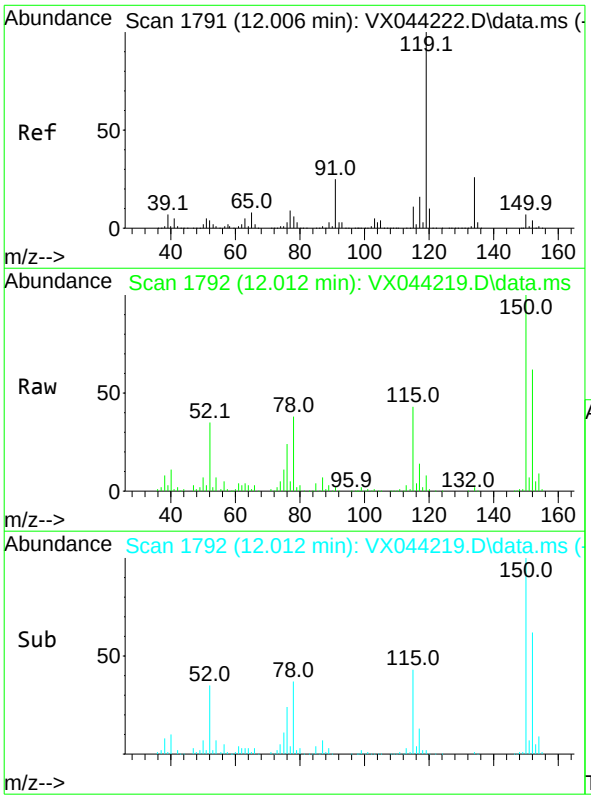
Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

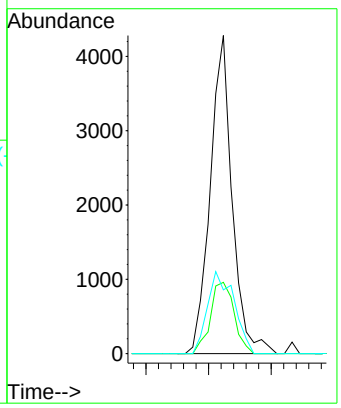


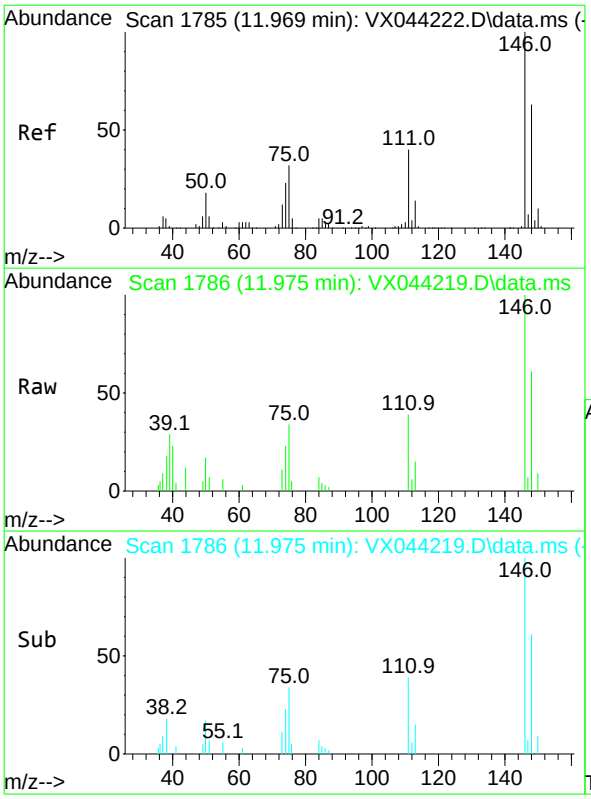


#86
p-Isopropyltoluene
Concen: 0.930 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:119 Resp: 5210

Ion	Ratio	Lower	Upper
119	100		
134	24.2	12.8	38.4
91	31.2	13.0	39.0





#87
1,3-Dichlorobenzene
Concen: 0.937 ug/l
RT: 11.975 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

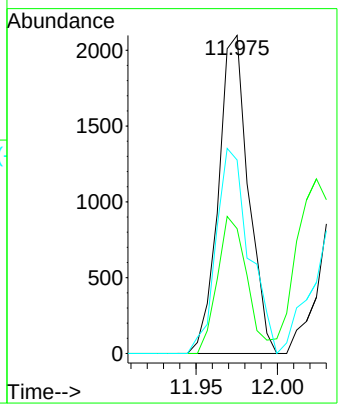
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

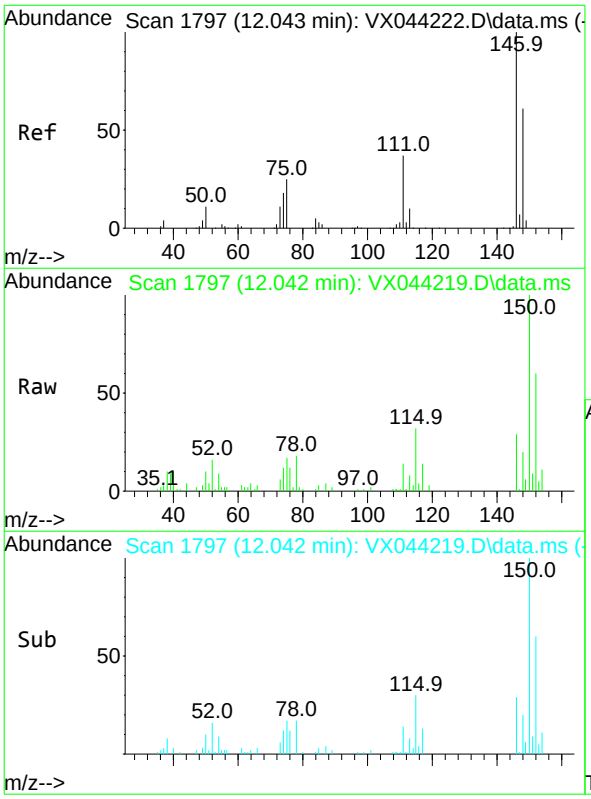
Tgt Ion:146 Resp: 2684

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.4	64.2
148	71.6	31.7	95.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

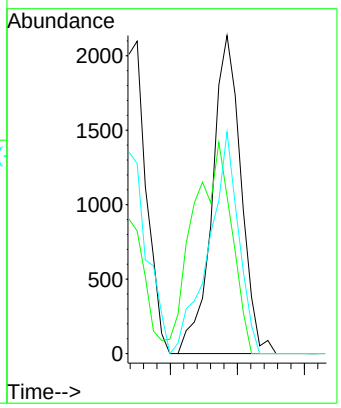


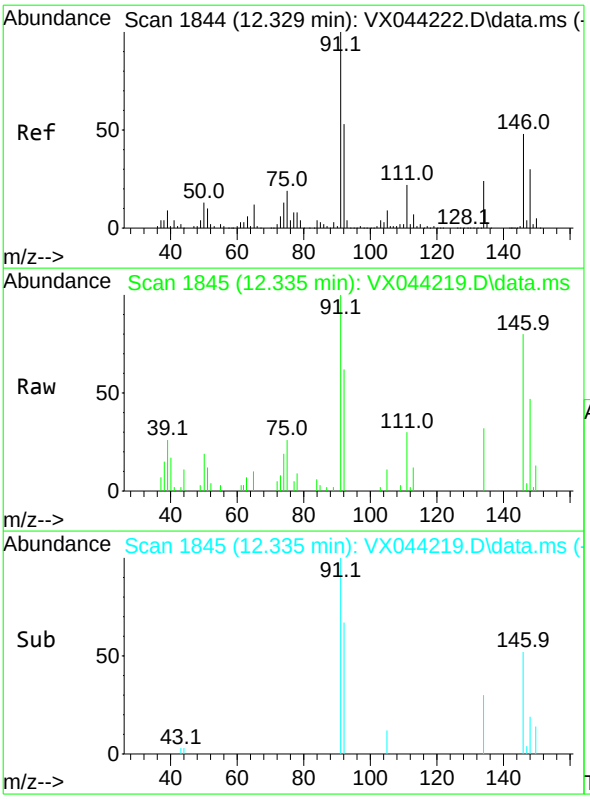


#88
1,4-Dichlorobenzene
Concen: 1.087 ug/l m
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:146 Resp: 3200

Ion	Ratio	Lower	Upper
146	100		
111	35.7	21.0	63.0
148	60.1	32.3	96.8

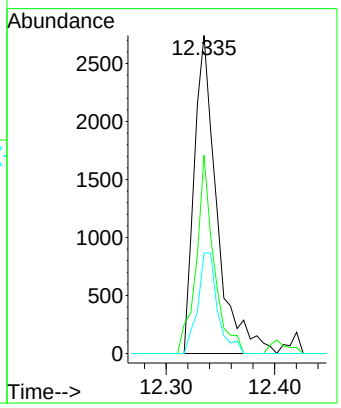




#89
n-Butylbenzene
Concen: 0.844 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 91 Resp: 3973

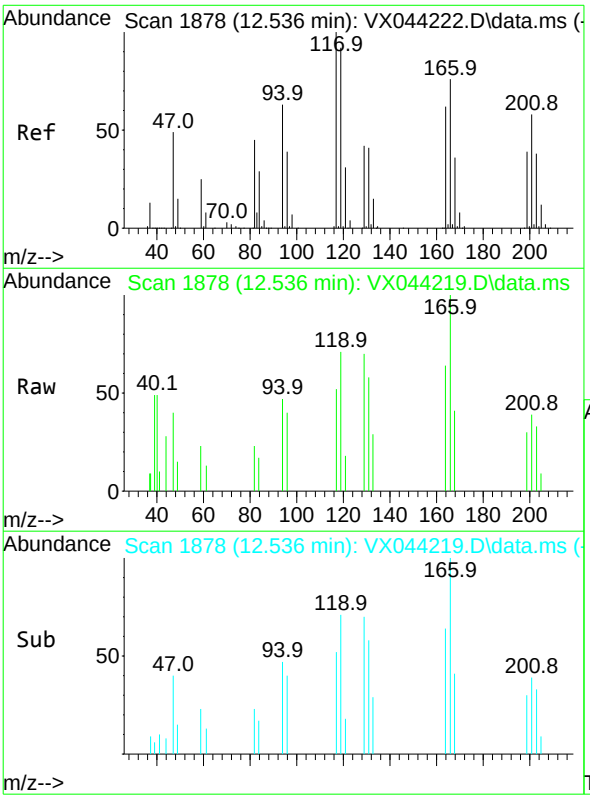
Ion	Ratio	Lower	Upper
91	100		
92	48.5	26.6	79.7
134	27.8	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

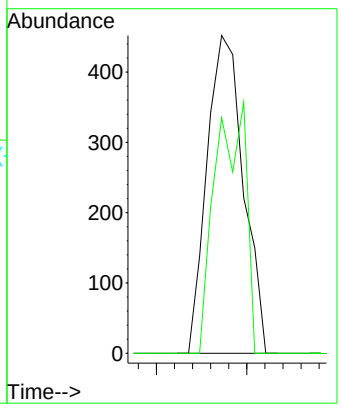
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

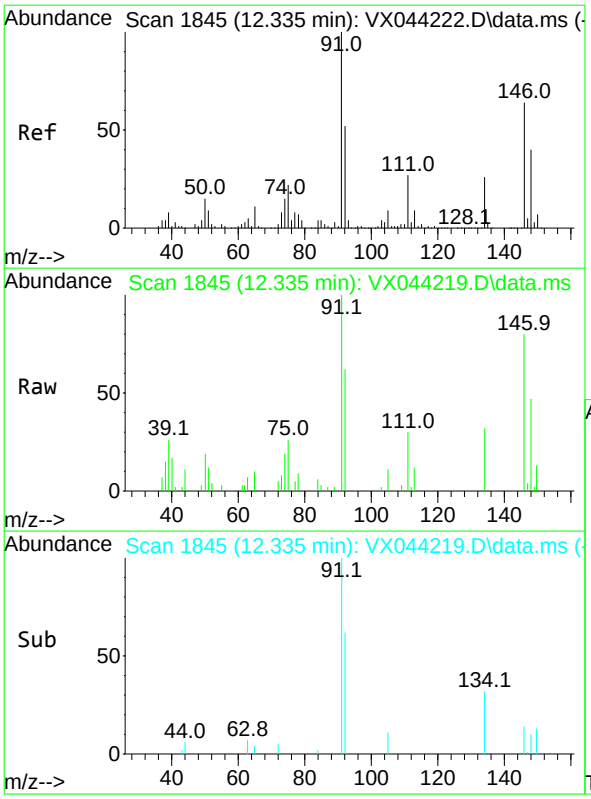


#90
Hexachloroethane
Concen: 0.773 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:117 Resp: 632

Ion	Ratio	Lower	Upper
117	100		
201	66.9	31.4	94.2

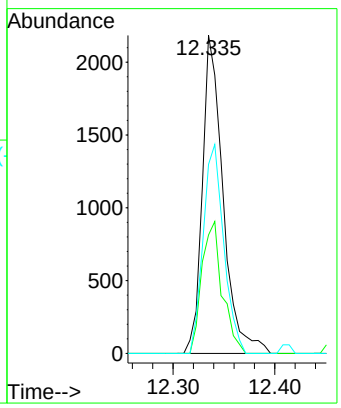




#91
1,2-Dichlorobenzene
Concen: 1.036 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:146 Resp: 3082

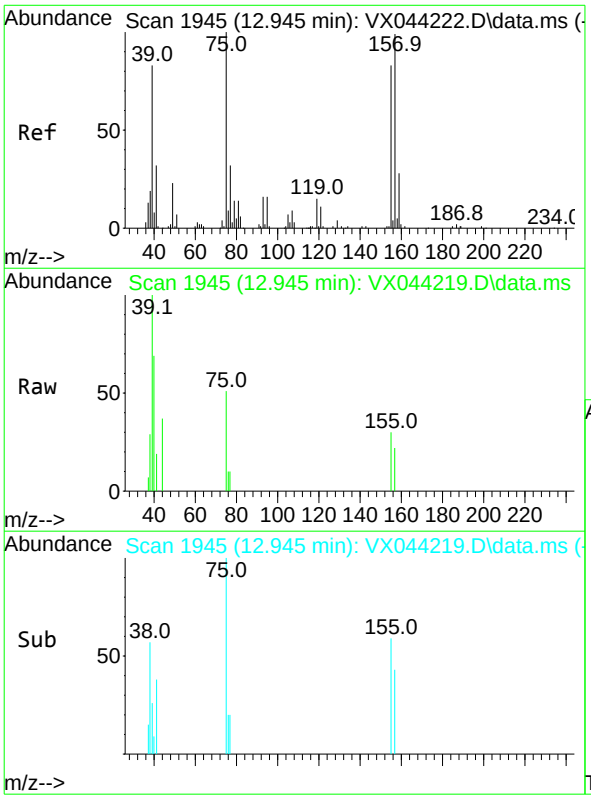
Ion	Ratio	Lower	Upper
146	100		
111	41.0	21.4	64.3
148	65.4	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

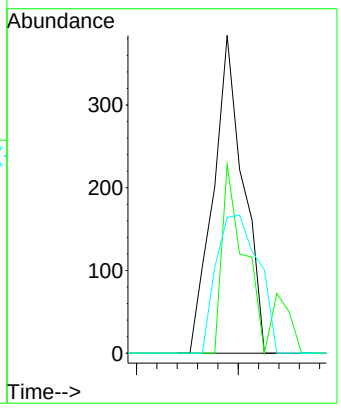
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

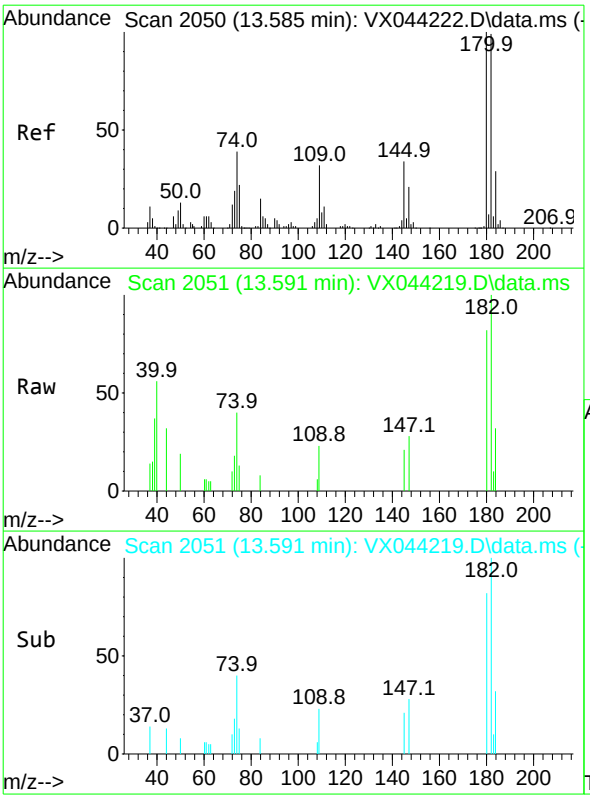


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.860 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 392

Ion	Ratio	Lower	Upper
75	100		
155	54.6	38.1	114.3
157	61.5	47.2	141.6

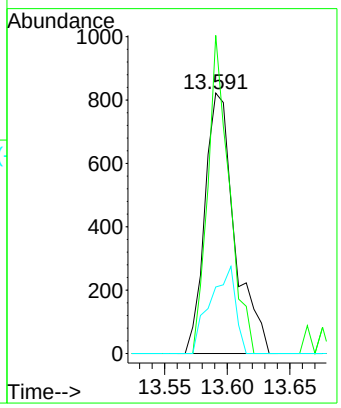




#93
1,2,4-Trichlorobenzene
Concen: 0.835 ug/l
RT: 13.591 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:180 Resp: 1361

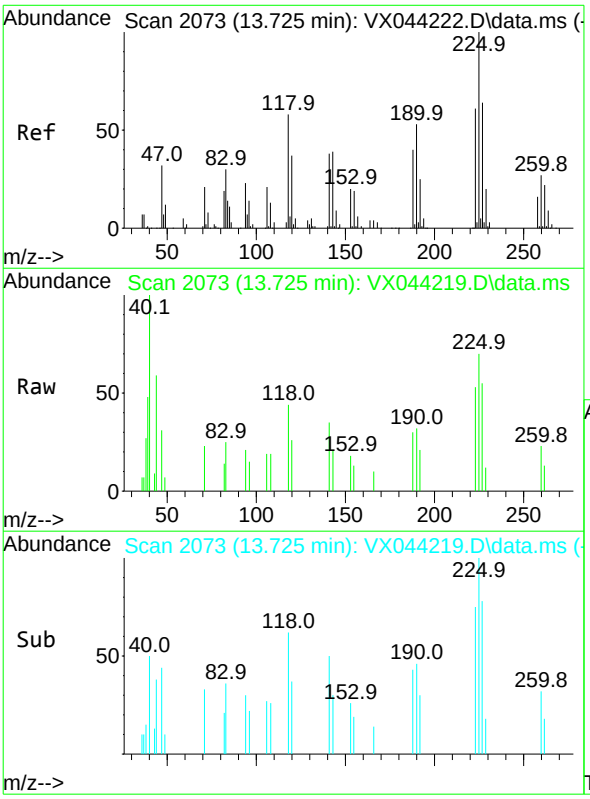
Ion	Ratio	Lower	Upper
180	100		
182	88.0	48.0	144.2
145	28.4	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

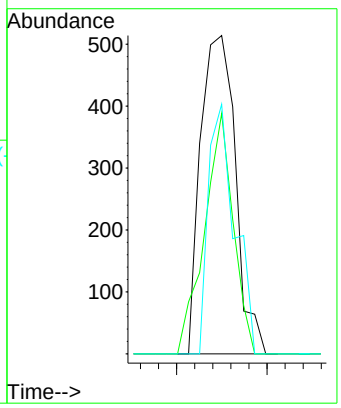
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

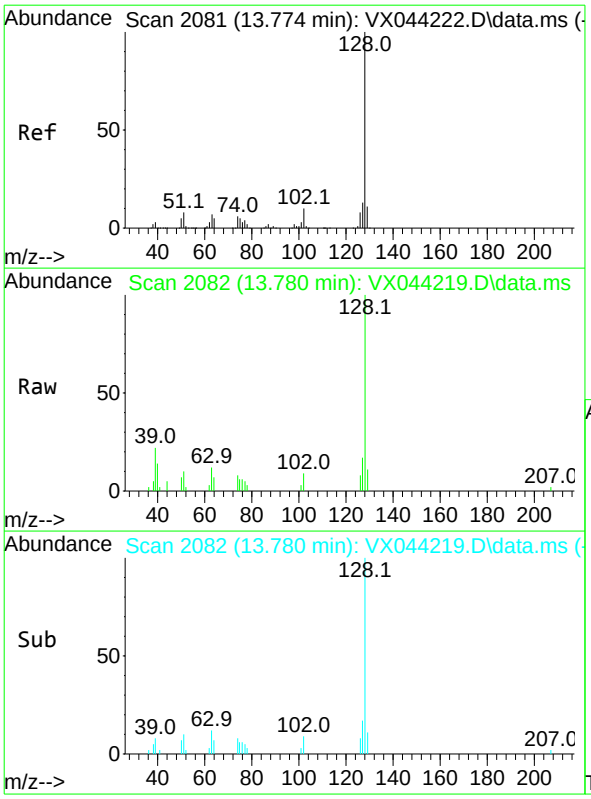


#94
Hexachlorobutadiene
Concen: 1.051 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:225 Resp: 689

Ion	Ratio	Lower	Upper
225	100		
223	62.4	30.8	92.4
227	59.4	32.1	96.3

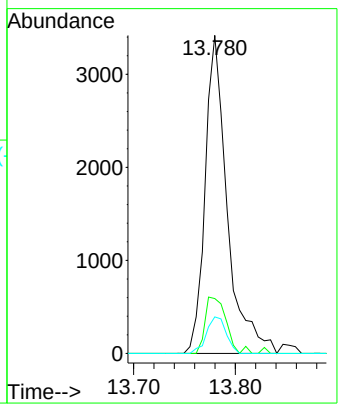




#95
Naphthalene
Concen: 0.812 ug/l
RT: 13.780 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:128 Resp: 5167

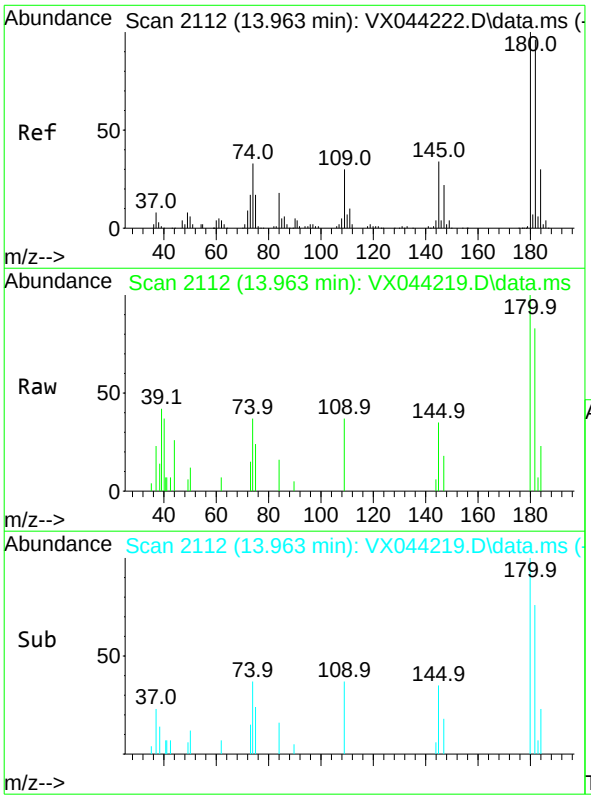
Ion	Ratio	Lower	Upper
128	100		
127	16.8	10.5	15.7#
129	10.2	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

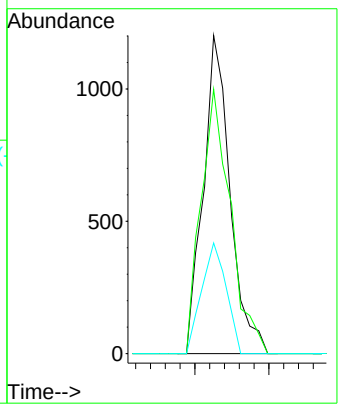
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 0.873 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:180 Resp: 1509

Ion	Ratio	Lower	Upper
180	100		
182	91.3	48.0	144.0
145	31.9	17.7	53.1



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	139609	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	258881	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	217783	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	95175	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	13043	5.328	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.660%#		
35) Dibromofluoromethane	5.385	113	9145	5.100	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.200%#		
50) Toluene-d8	8.647	98	29732	4.915	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	9.840%#		
62) 4-Bromofluorobenzene	11.079	95	10101	4.779	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.560%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	10452	4.842	ug/l	91
3) Chloromethane	1.294	50	10429	5.052	ug/l	95
4) Vinyl Chloride	1.374	62	11031	5.129	ug/l	98
5) Bromomethane	1.593	94	8237	5.399	ug/l	92
6) Chloroethane	1.660	64	7253	5.416	ug/l	96
7) Trichlorofluoromethane	1.868	101	21207	5.037	ug/l	91
8) Diethyl Ether	2.136	74	7199	5.009	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	8766	5.145	ug/l	97
10) Methyl Iodide	2.447	142	11066	4.928	ug/l	97
11) Tert butyl alcohol	2.995	59	7159m	20.785	ug/l	
12) 1,1-Dichloroethene	2.306	96	7822	4.999	ug/l	95
13) Acrolein	2.239	56	12521	25.073	ug/l	100
14) Allyl chloride	2.654	41	12490	4.792	ug/l	94
15) Acrylonitrile	3.069	53	23276	24.357	ug/l	99
16) Acetone	2.392	43	24645	24.696	ug/l	93
17) Carbon Disulfide	2.495	76	12169	4.091	ug/l	99
18) Methyl Acetate	2.709	43	12412	4.824	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	30546	5.002	ug/l	94
20) Methylene Chloride	2.782	84	9466	5.050	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	7768	4.671	ug/l	97
22) Diisopropyl ether	3.764	45	29518	5.029	ug/l #	73
23) Vinyl Acetate	3.721	43	109670	22.983	ug/l	96
24) 1,1-Dichloroethane	3.605	63	16370	5.004	ug/l	96
25) 2-Butanone	4.574	43	34245	24.138	ug/l	97
26) 2,2-Dichloropropane	4.471	77	12514	4.708	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	10292	4.873	ug/l	97
28) Bromochloromethane	4.897	49	8049	5.017	ug/l #	93
29) Tetrahydrofuran	5.019	42	24307	26.693	ug/l	94
30) Chloroform	5.093	83	18319	4.984	ug/l	93
31) Cyclohexane	5.464	56	12995	4.919	ug/l	89
32) 1,1,1-Trichloroethane	5.373	97	14231	4.664	ug/l	96
36) 1,1-Dichloropropene	5.690	75	11455	4.942	ug/l	94
37) Ethyl Acetate	4.727	43	13265	4.630	ug/l	97
38) Carbon Tetrachloride	5.666	117	11476	4.599	ug/l	96
39) Methylcyclohexane	7.373	83	13019	4.699	ug/l #	85
40) Benzene	6.037	78	35018	4.976	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.946	41	7585	4.986 ug/l	93
42) 1,2-Dichloroethane	6.092	62	14419	4.974 ug/l	99
43) Isopropyl Acetate	6.354	43	22098	4.935 ug/l	98
44) Trichloroethene	7.123	130	8405	4.790 ug/l	100
45) 1,2-Dichloropropane	7.434	63	8932	4.968 ug/l	94
46) Dibromomethane	7.586	93	6915	4.958 ug/l	99
47) Bromodichloromethane	7.824	83	10646	4.420 ug/l #	98
48) Methyl methacrylate	7.702	41	9586	4.410 ug/l	97
49) 1,4-Dioxane	7.671	88	3545m	95.429 ug/l	
51) 4-Methyl-2-Pentanone	8.574	43	71285	24.759 ug/l	98
52) Toluene	8.720	92	21486	4.862 ug/l	99
53) t-1,3-Dichloropropene	8.982	75	9232	4.665 ug/l	100
54) cis-1,3-Dichloropropene	8.372	75	11404	4.348 ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	8590	4.893 ug/l	97
56) Ethyl methacrylate	9.122	69	11854	4.277 ug/l #	89
57) 1,3-Dichloropropane	9.311	76	15352	5.024 ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	34738	24.852 ug/l	99
59) 2-Hexanone	9.433	43	50003	23.994 ug/l	96
60) Dibromochloromethane	9.519	129	6411	4.738 ug/l	98
61) 1,2-Dibromoethane	9.610	107	8330	4.662 ug/l	97
64) Tetrachloroethene	9.275	164	7710	5.334 ug/l #	87
65) Chlorobenzene	10.079	112	23268	4.986 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	6647	4.432 ug/l	94
67) Ethyl Benzene	10.195	91	39326	4.877 ug/l	97
68) m/p-Xylenes	10.299	106	28758	9.720 ug/l	98
69) o-Xylene	10.640	106	14864	4.965 ug/l	97
70) Styrene	10.659	104	22191	4.624 ug/l	98
71) Bromoform	10.799	173	3775	5.118 ug/l #	98
73) Isopropylbenzene	10.963	105	37843	5.194 ug/l	98
74) N-amyl acetate	10.842	43	15418	4.579 ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	12848	5.077 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	10236m	4.740 ug/l	
77) Bromobenzene	11.201	156	8892	5.033 ug/l	99
78) n-propylbenzene	11.305	91	40574	5.038 ug/l	96
79) 2-Chlorotoluene	11.366	91	27096	5.203 ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	30665	5.075 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.024	75	2249	8.273 ug/l #	62
82) 4-Chlorotoluene	11.457	91	29039	5.035 ug/l	99
83) tert-Butylbenzene	11.713	119	29283	4.904 ug/l	95
84) 1,2,4-Trimethylbenzene	11.750	105	30970	5.219 ug/l	99
85) sec-Butylbenzene	11.890	105	35670	4.921 ug/l	98
86) p-Isopropyltoluene	12.006	119	29132	4.828 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	15553	5.039 ug/l	96
88) 1,4-Dichlorobenzene	12.043	146	15609	4.920 ug/l	95
89) n-Butylbenzene	12.335	91	22719	4.478 ug/l	98
90) Hexachloroethane	12.536	117	3765	4.275 ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	15858	4.949 ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2154	4.385 ug/l	81
93) 1,2,4-Trichlorobenzene	13.591	180	7867	4.478 ug/l	96
94) Hexachlorobutadiene	13.725	225	3321	4.700 ug/l	93
95) Naphthalene	13.780	128	31842	4.643 ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	8422	4.520 ug/l	99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

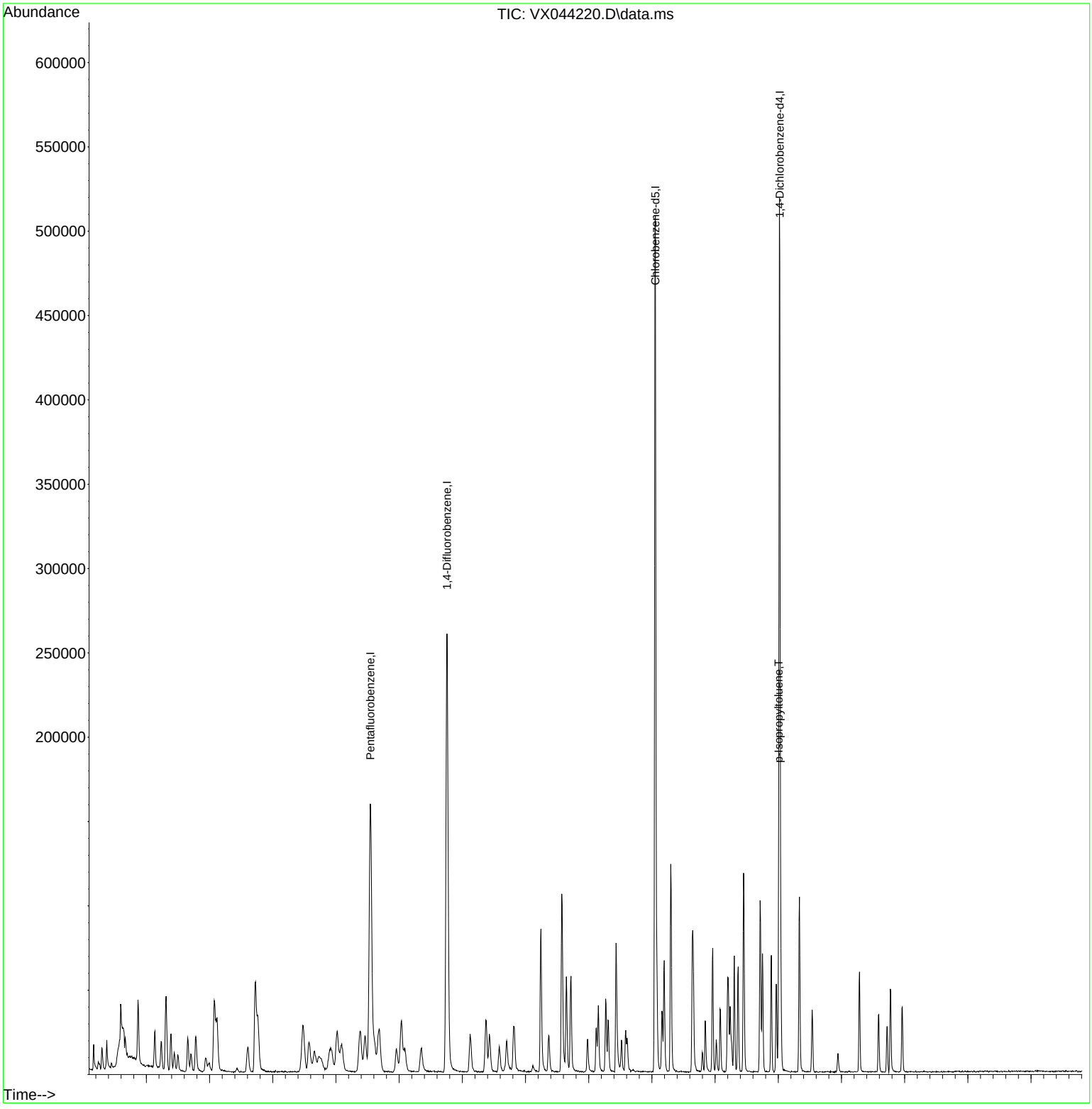
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

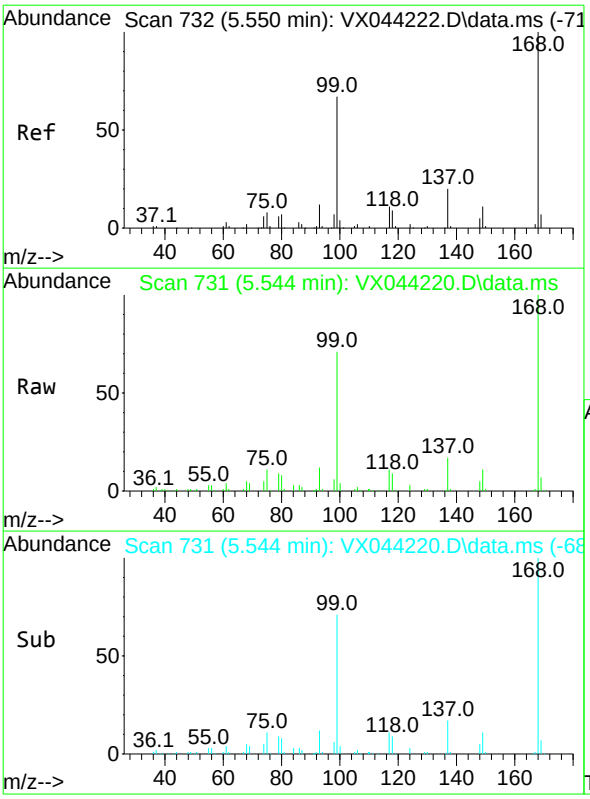
Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

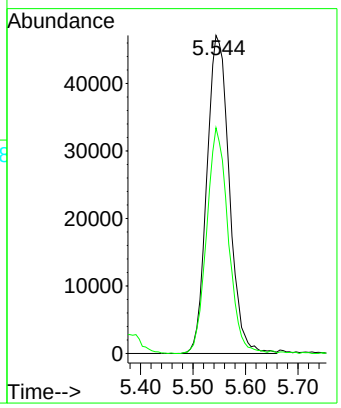




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:168 Resp: 139609

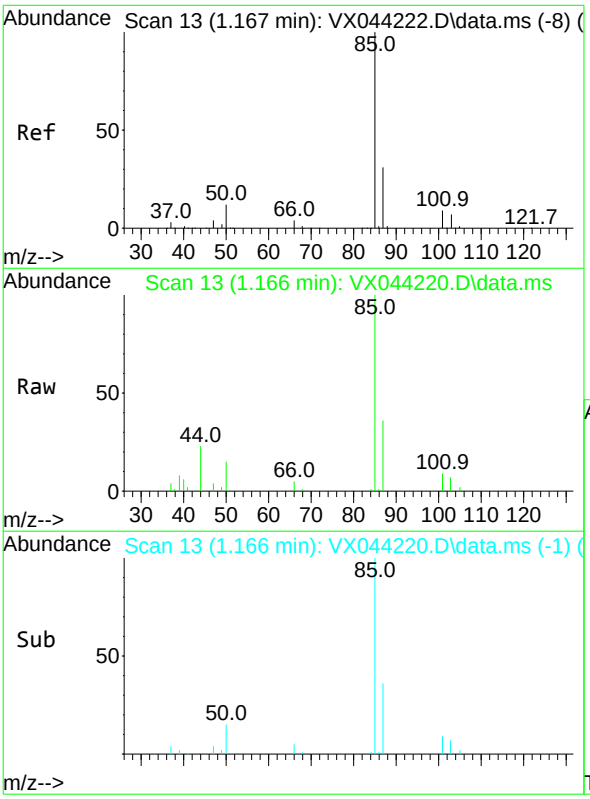
Ion	Ratio	Lower	Upper
168	100		
99	71.0	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

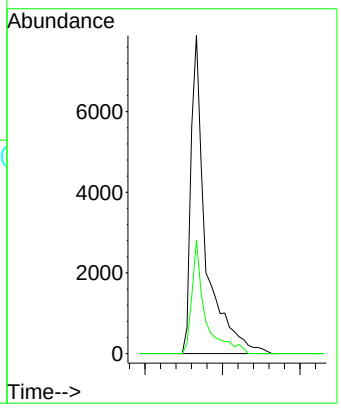
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

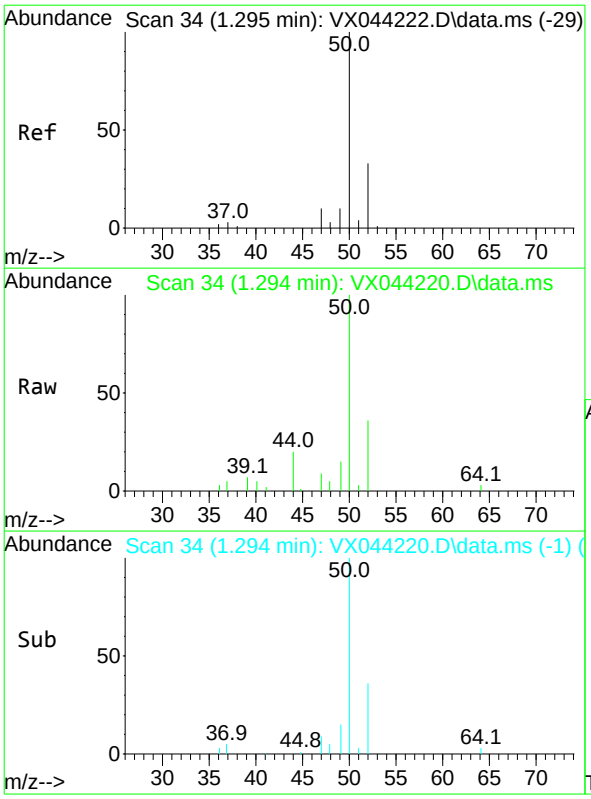


#2
Dichlorodifluoromethane
Concen: 4.842 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 85 Resp: 10452

Ion	Ratio	Lower	Upper
85	100		
87	35.6	15.4	46.4

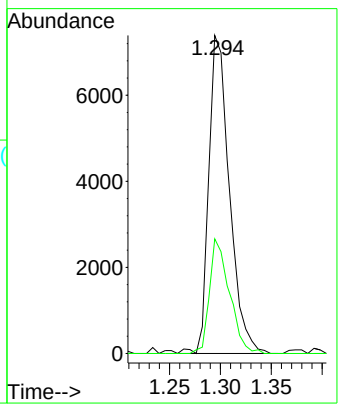




#3
Chloromethane
Concen: 5.052 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 50 Resp: 10429

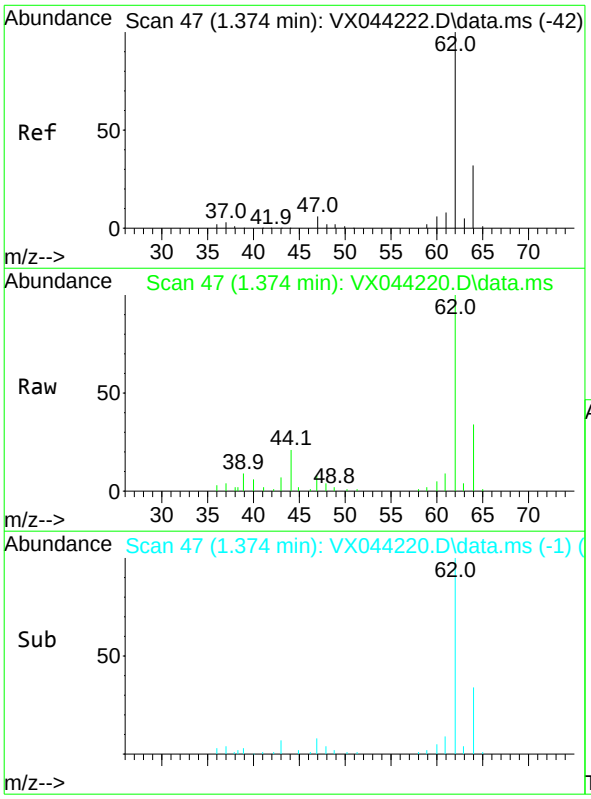
Ion	Ratio	Lower	Upper
50	100		
52	36.0	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

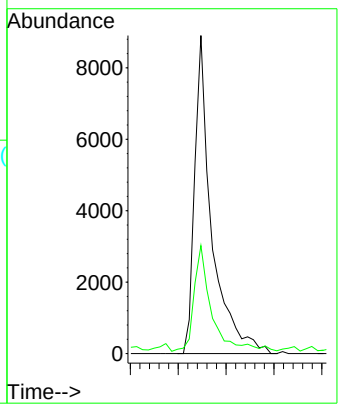
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

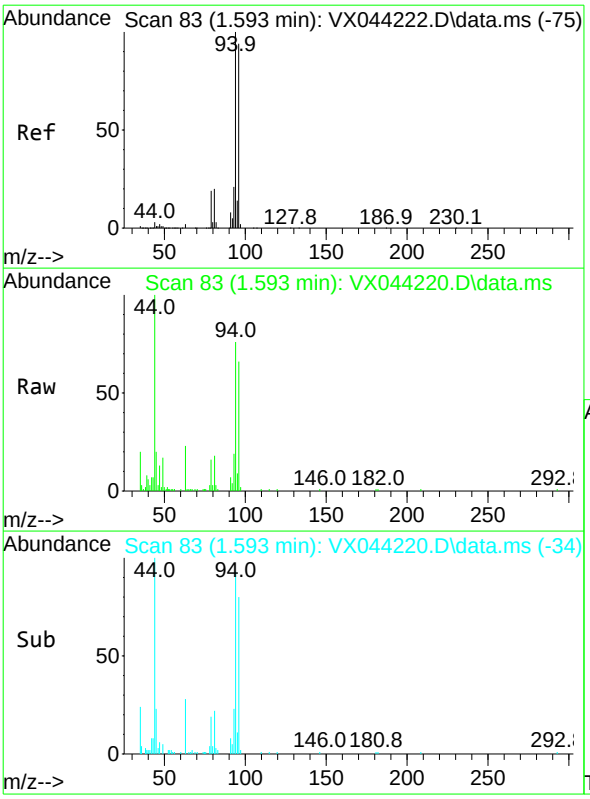


#4
Vinyl Chloride
Concen: 5.129 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 62 Resp: 11031

Ion	Ratio	Lower	Upper
62	100		
64	33.1	25.7	38.5

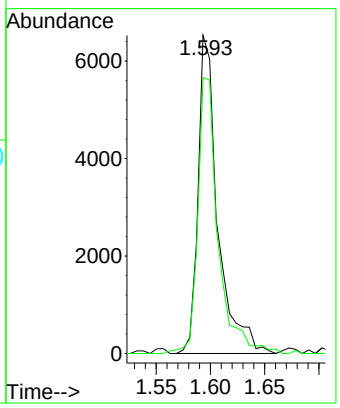




#5
Bromomethane
Concen: 5.399 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 94 Resp: 8237

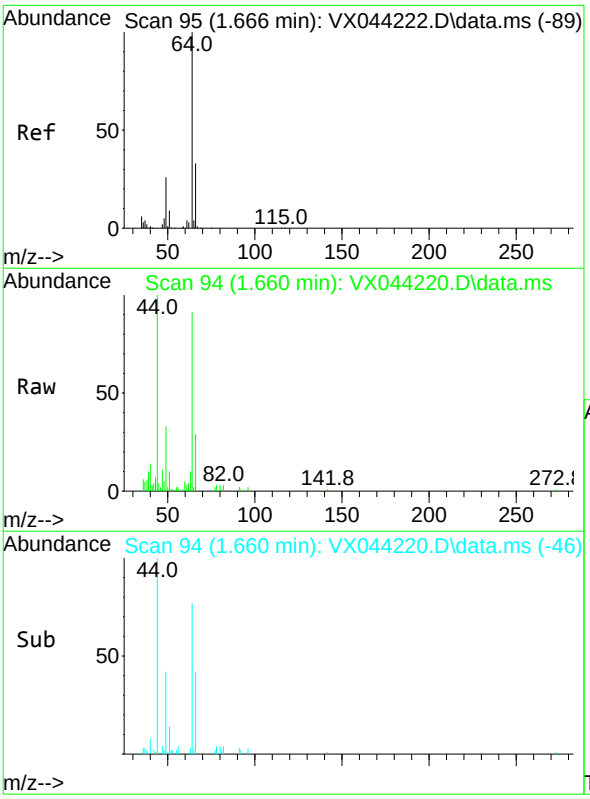
Ion	Ratio	Lower	Upper
94	100		
96	85.5	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

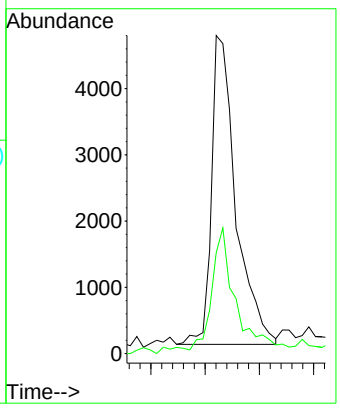
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

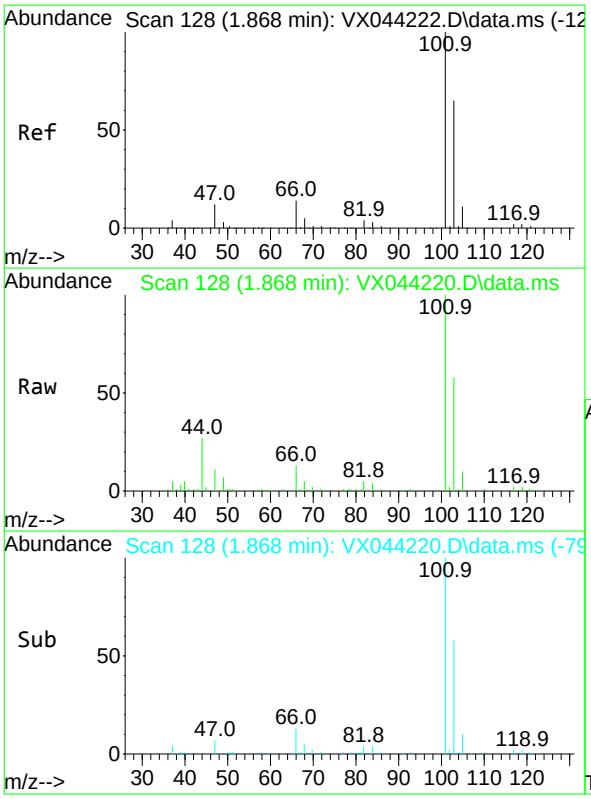


#6
Chloroethane
Concen: 5.416 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 64 Resp: 7253

Ion	Ratio	Lower	Upper
64	100		
66	30.7	26.6	39.8

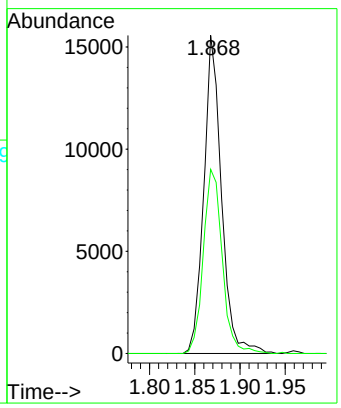




#7
Trichlorofluoromethane
Concen: 5.037 ug/l
RT: 1.868 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:101 Resp: 21207

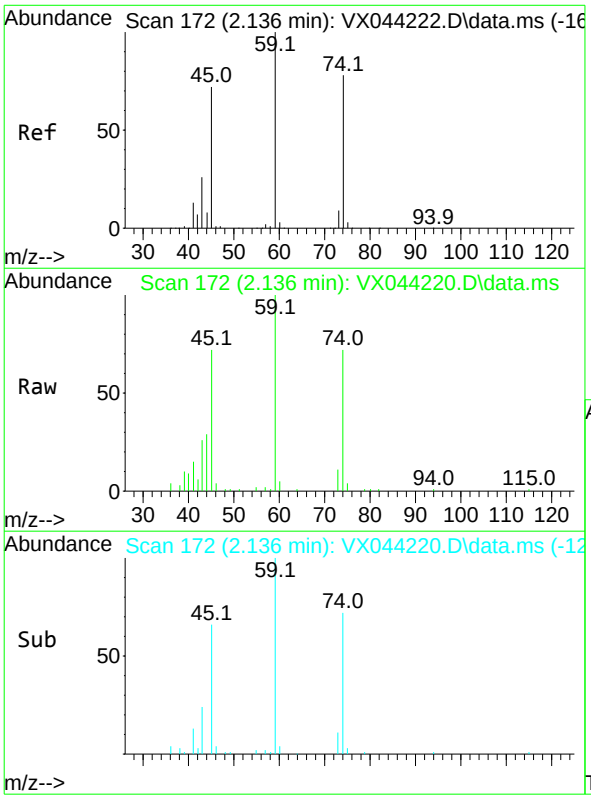
Ion	Ratio	Lower	Upper
101	100		
103	57.9	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

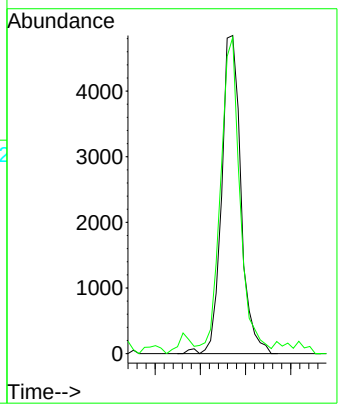
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

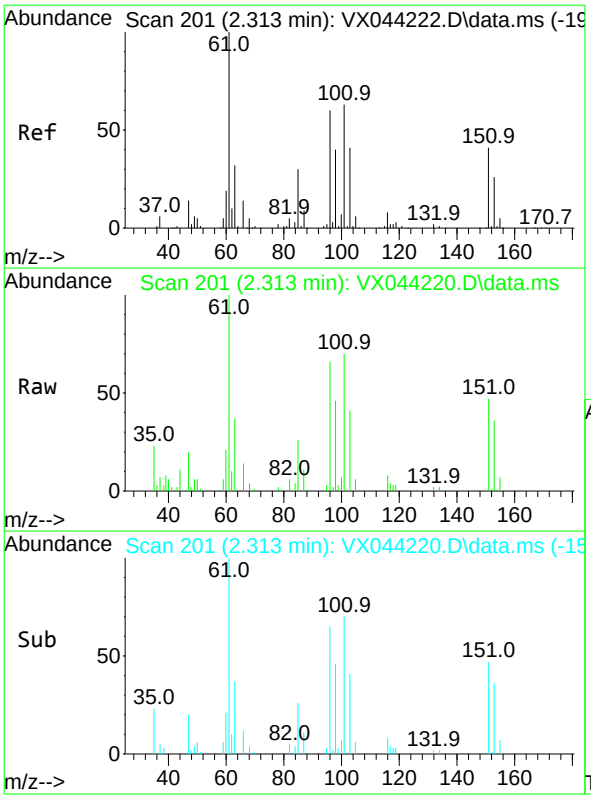


#8
Diethyl Ether
Concen: 5.009 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 74 Resp: 7199

Ion	Ratio	Lower	Upper
74	100		
45	97.0	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.145 ug/l
RT: 2.313 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

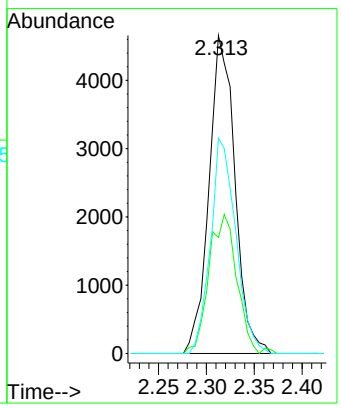
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

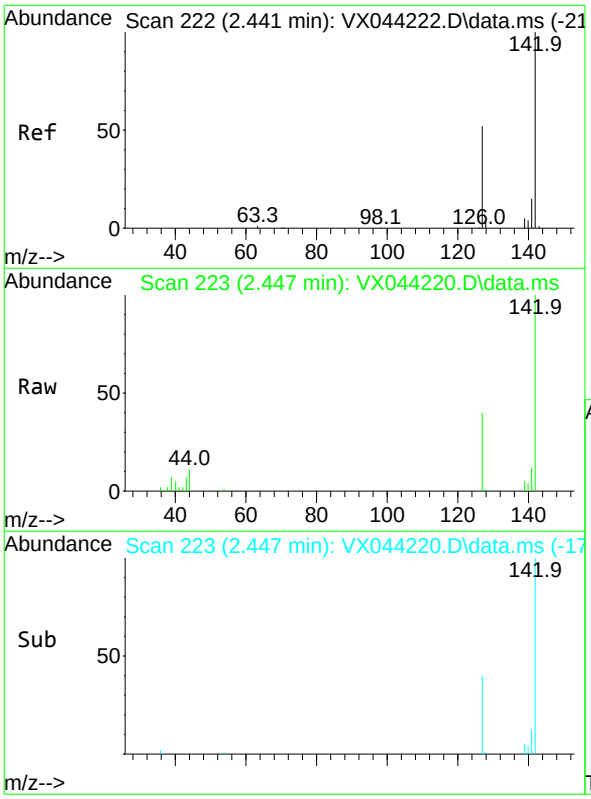
Tgt Ion:101 Resp: 8766

Ion	Ratio	Lower	Upper
101	100		
85	46.7	38.5	57.7
151	66.2	55.8	83.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

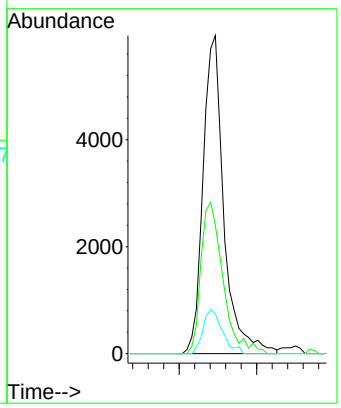


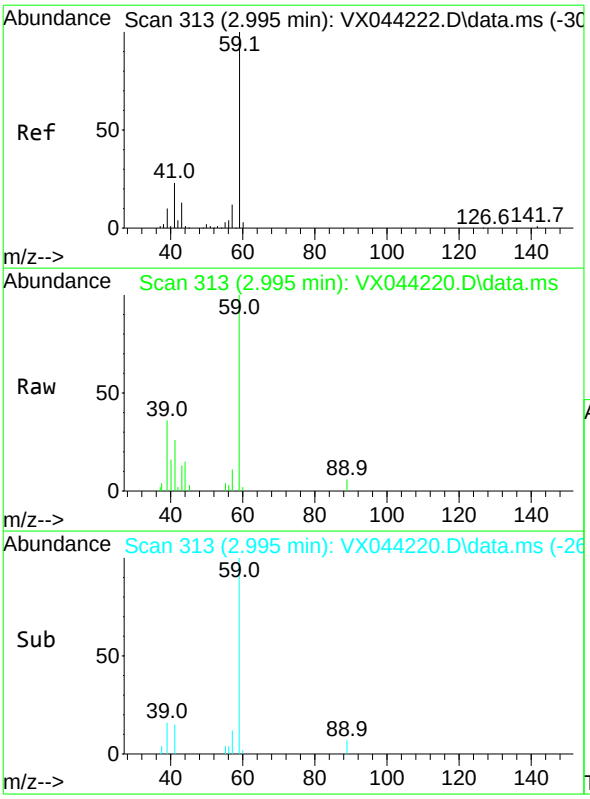


#10
Methyl Iodide
Concen: 4.928 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:142 Resp: 11066

Ion	Ratio	Lower	Upper
142	100		
127	50.4	41.8	62.8
141	12.9	11.5	17.3

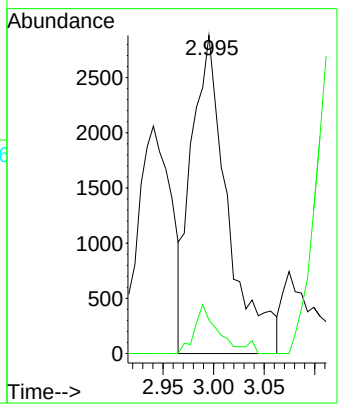




#11
Tert butyl alcohol
Concen: 20.785 ug/l m
RT: 2.995 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 59 Resp: 7159

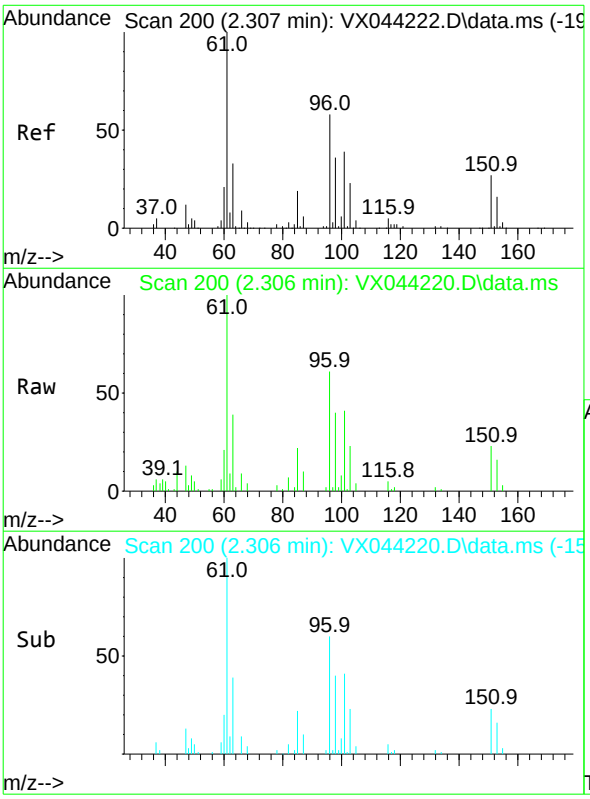
Ion	Ratio	Lower	Upper
59	100		
57	9.5	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

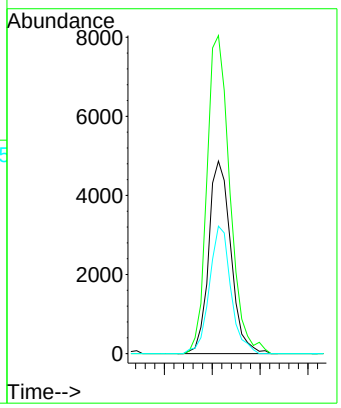
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

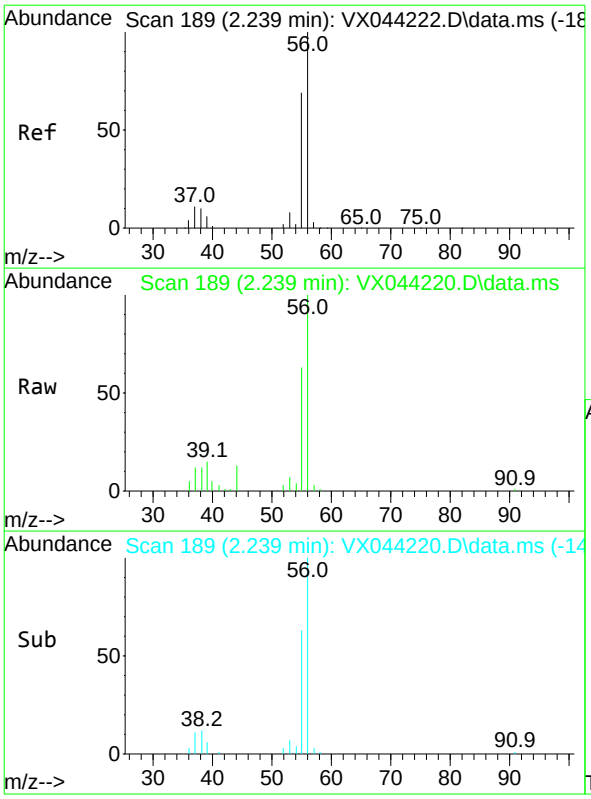


#12
1,1-Dichloroethene
Concen: 4.999 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 96 Resp: 7822

Ion	Ratio	Lower	Upper
96	100		
61	165.2	138.0	207.0
98	66.2	50.0	75.0

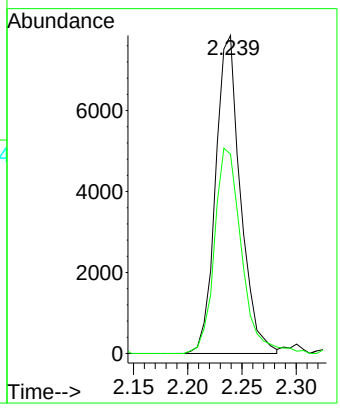




#13
Acrolein
Concen: 25.073 ug/l
RT: 2.239 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 56 Resp: 12521

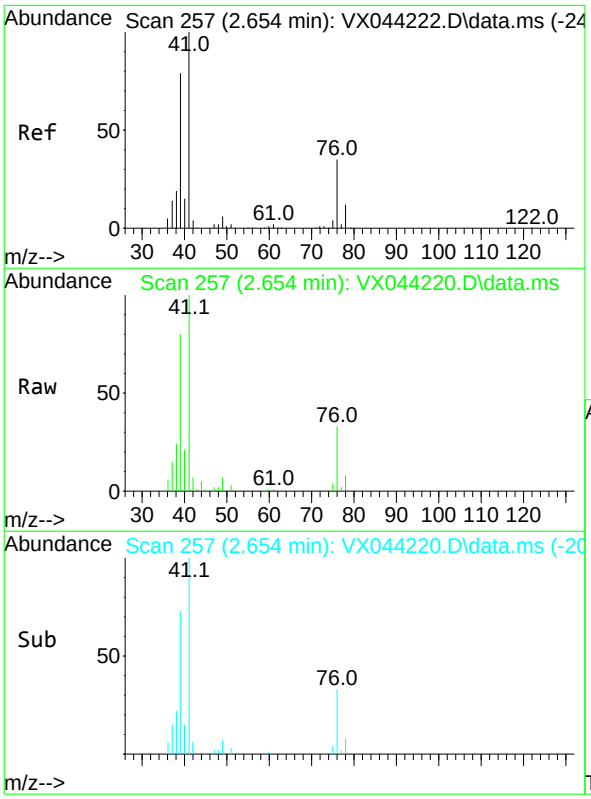
Ion	Ratio	Lower	Upper
56	100		
55	70.6	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

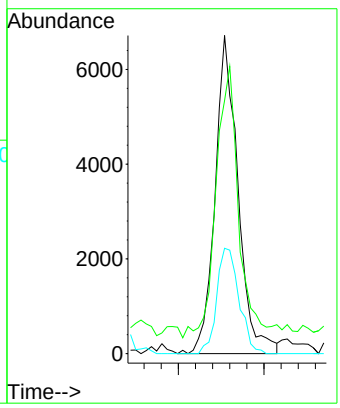
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

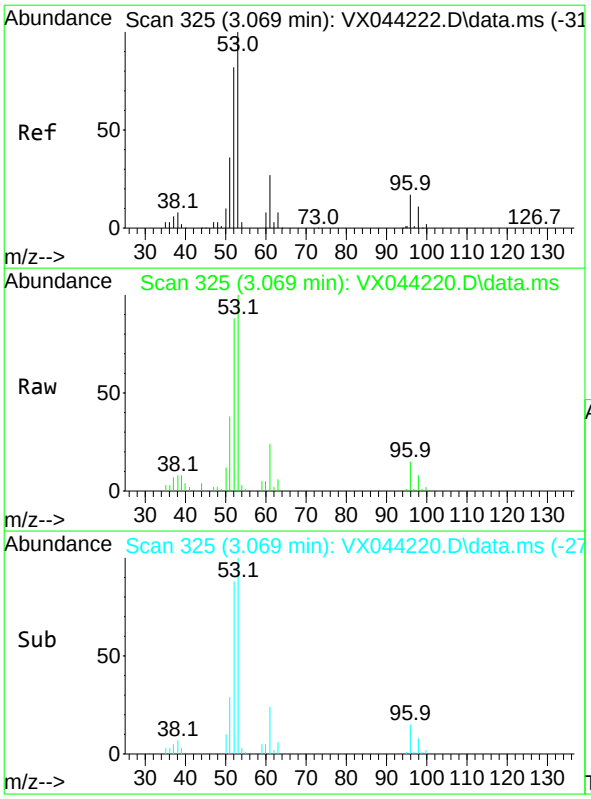


#14
Allyl chloride
Concen: 4.792 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 41 Resp: 12490

Ion	Ratio	Lower	Upper
41	100		
39	84.0	61.9	92.9
76	32.1	27.4	41.2

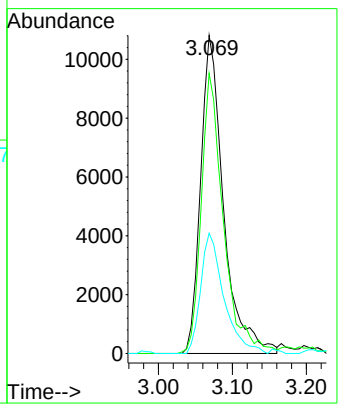




#15
Acrylonitrile
Concen: 24.357 ug/l
RT: 3.069 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 53 Resp: 23276

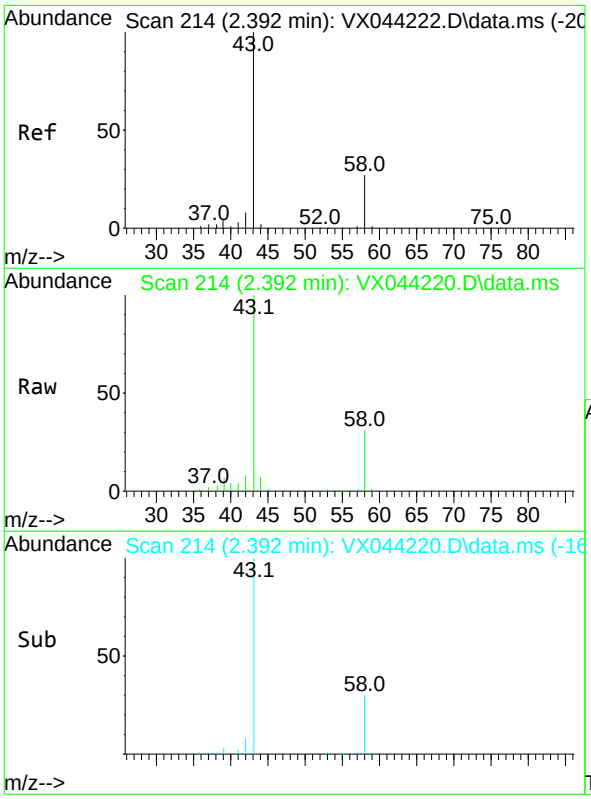
Ion	Ratio	Lower	Upper
53	100		
52	85.0	67.4	101.0
51	38.2	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

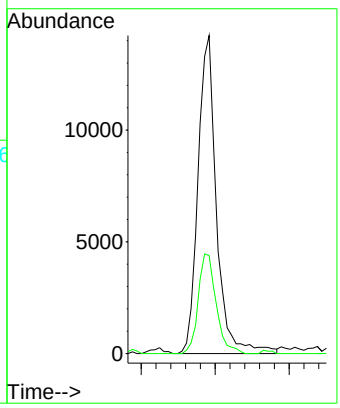
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

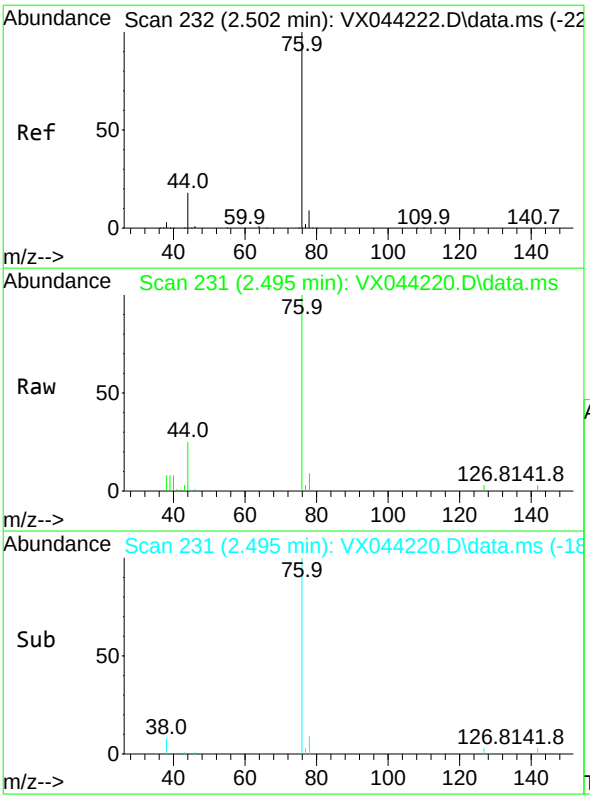


#16
Acetone
Concen: 24.696 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 24645

Ion	Ratio	Lower	Upper
43	100		
58	30.8	21.6	32.4

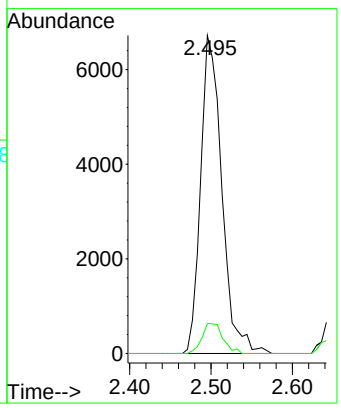




#17
Carbon Disulfide
Concen: 4.091 ug/l
RT: 2.495 min Scan# 23
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 76 Resp: 12169

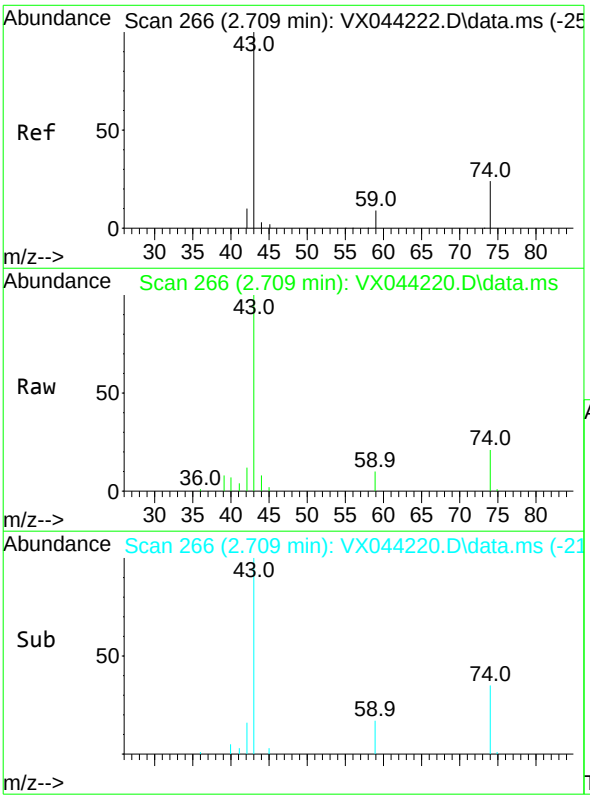
Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

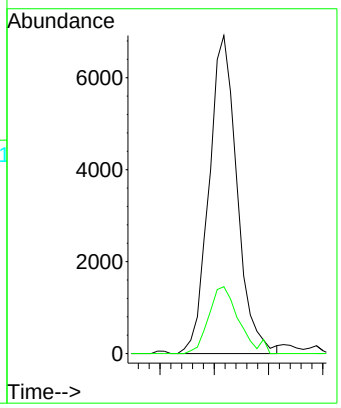
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

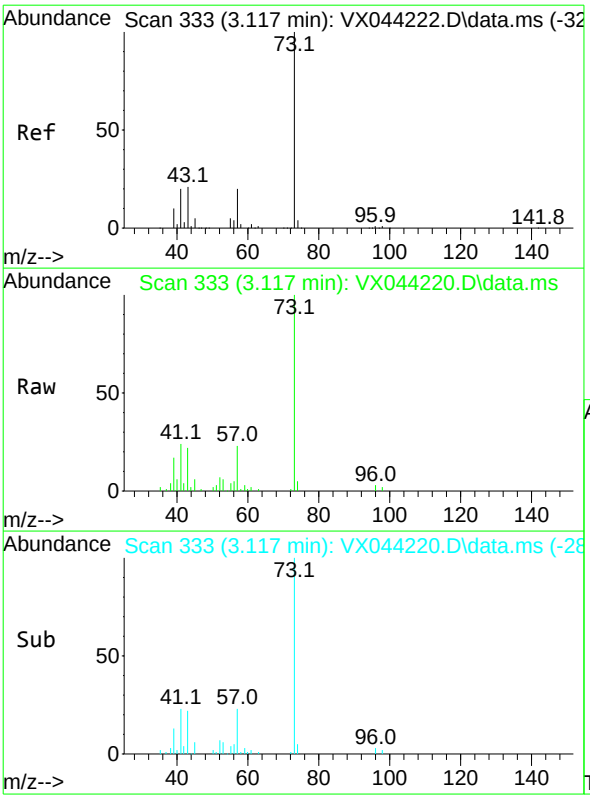


#18
Methyl Acetate
Concen: 4.824 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 12412

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.7	26.5

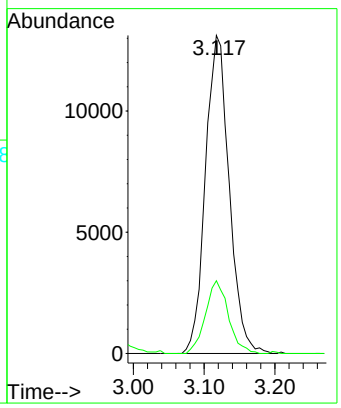




#19
Methyl tert-butyl Ether
Concen: 5.002 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 73 Resp: 30546

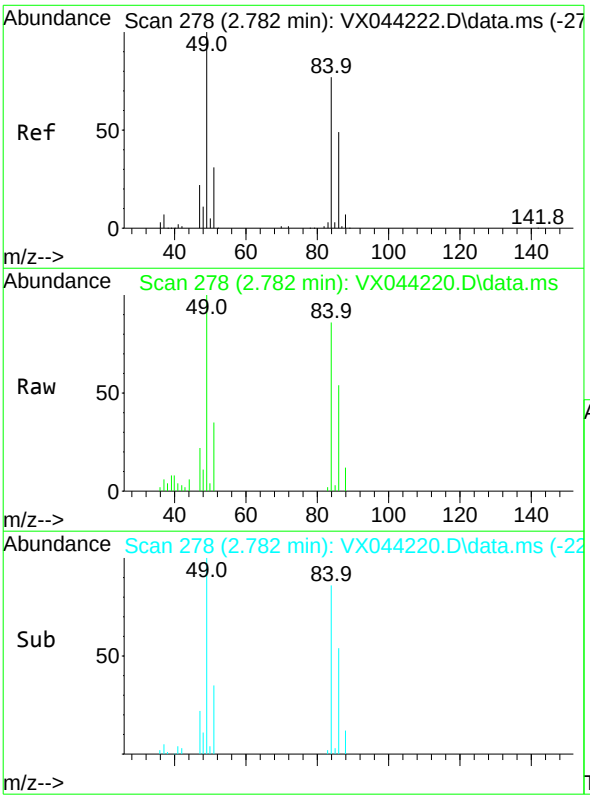
Ion	Ratio	Lower	Upper
73	100		
57	22.9	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

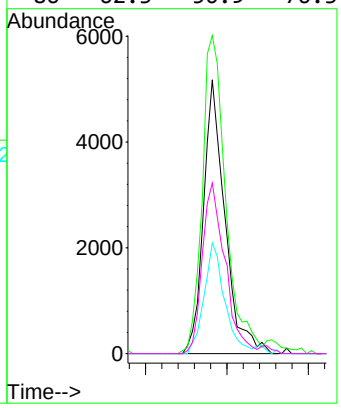
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

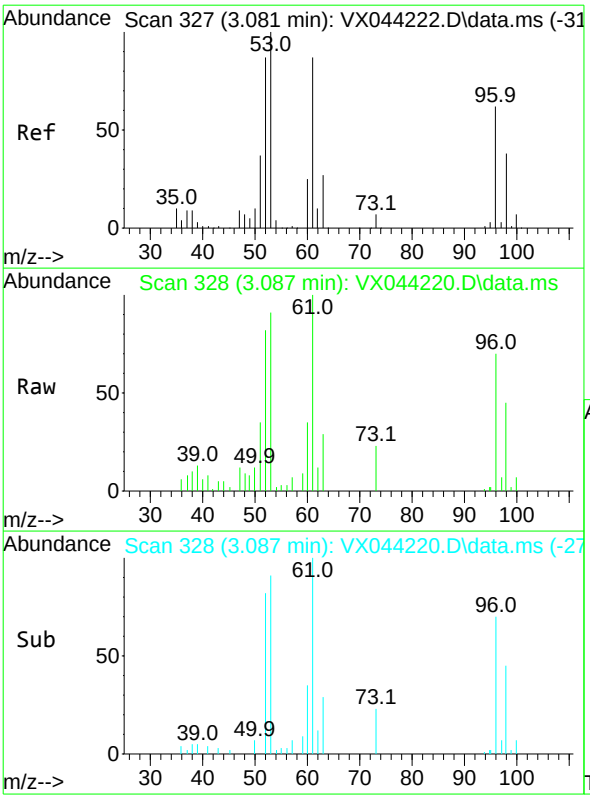


#20
Methylene Chloride
Concen: 5.050 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 84 Resp: 9466

Ion	Ratio	Lower	Upper
84	100		
49	116.2	104.2	156.4
51	40.4	32.2	48.4
86	62.3	50.9	76.3

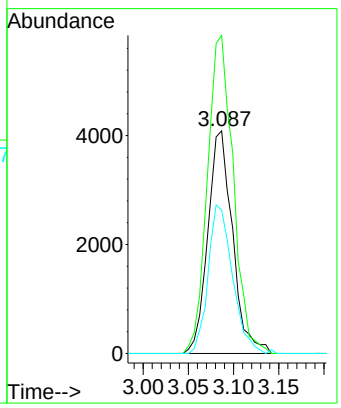




#21
trans-1,2-Dichloroethene
Concen: 4.671 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 96 Resp: 7768

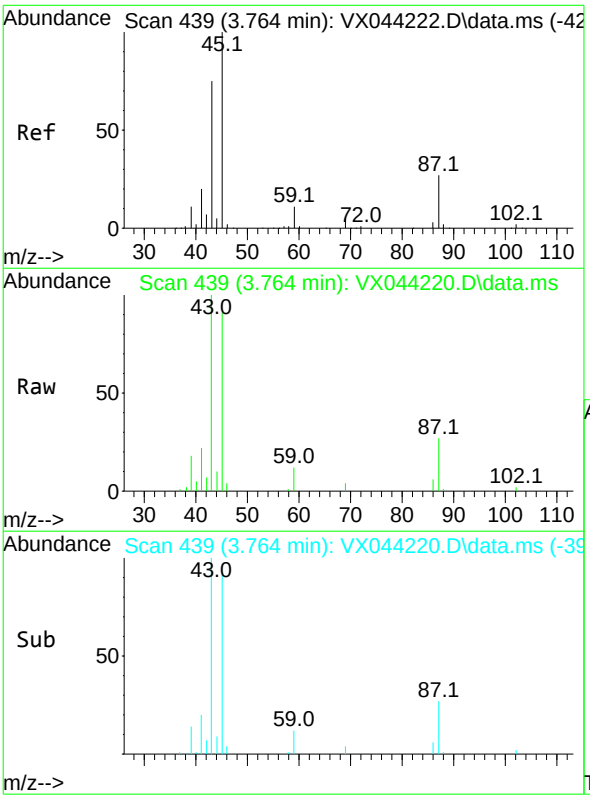
Ion	Ratio	Lower	Upper
96	100		
61	142.9	112.0	168.0
98	64.4	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

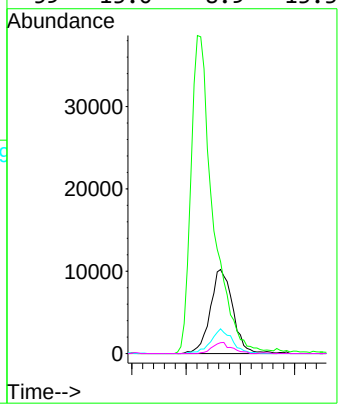
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

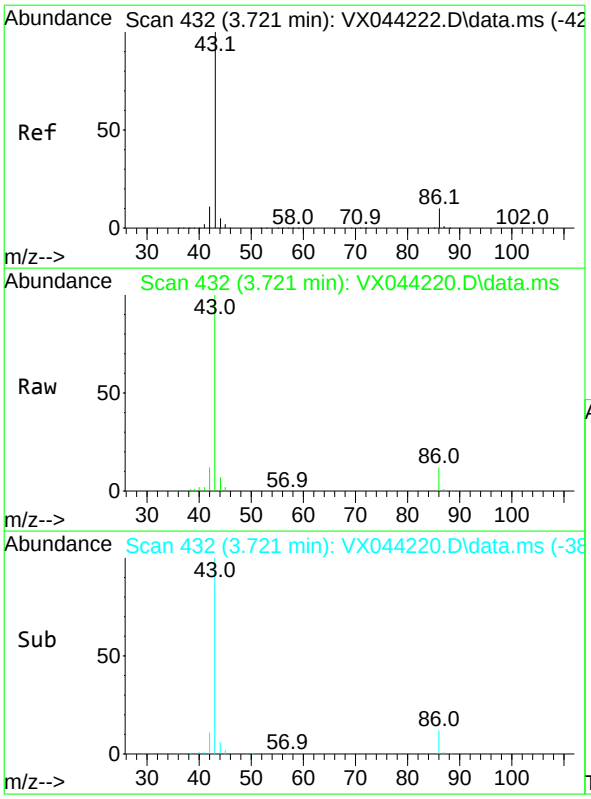


#22
Diisopropyl ether
Concen: 5.029 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 45 Resp: 29518

Ion	Ratio	Lower	Upper
45	100		
43	107.7	60.2	90.2#
87	29.5	21.2	31.8
59	13.0	8.9	13.3





#23
Vinyl Acetate
Concen: 22.983 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

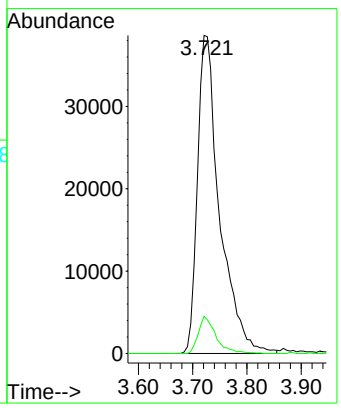
Tgt Ion: 43 Resp: 109670

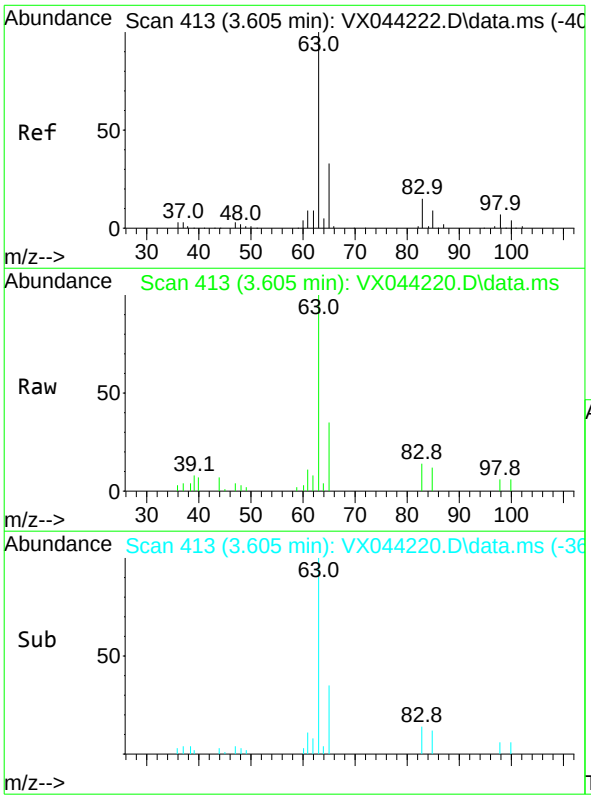
Ion	Ratio	Lower	Upper
43	100		
86	11.7	8.2	12.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

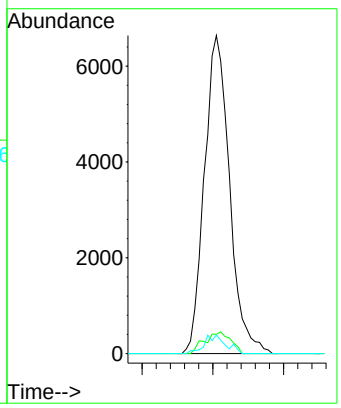


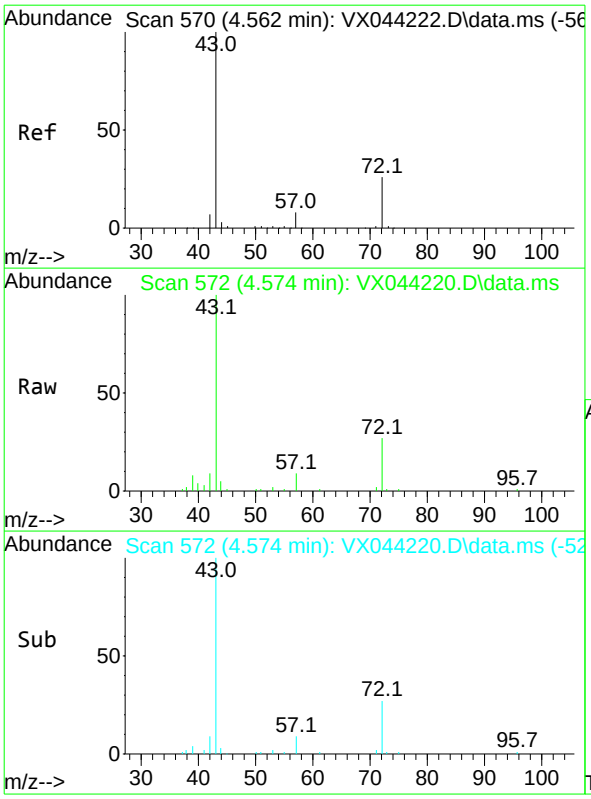


#24
1,1-Dichloroethane
Concen: 5.004 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 63 Resp: 16370

Ion	Ratio	Lower	Upper
63	100		
98	6.0	3.6	10.8
100	5.9	2.1	6.3





#25
2-Butanone
Concen: 24.138 ug/l
RT: 4.574 min Scan# 57
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

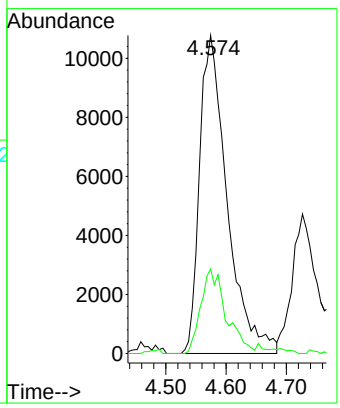
Tgt Ion: 43 Resp: 34245

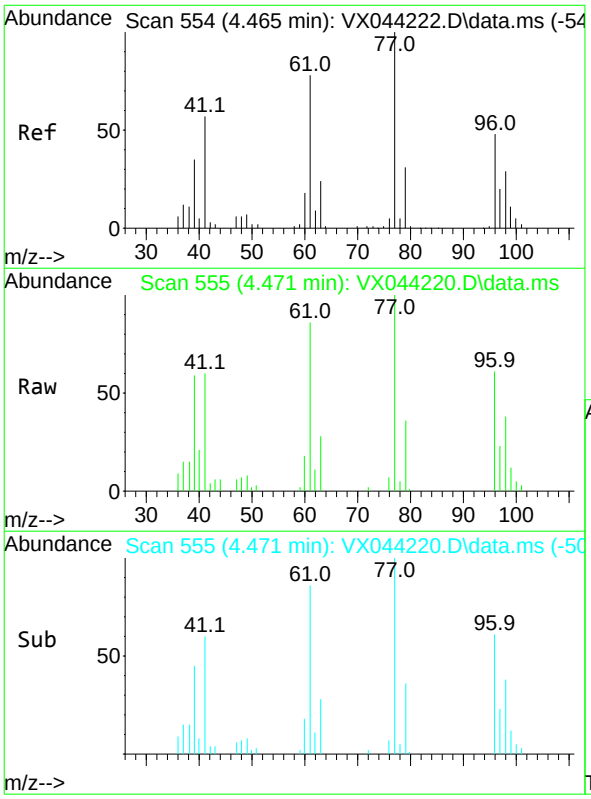
Ion	Ratio	Lower	Upper
43	100		
72	26.6	20.2	30.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

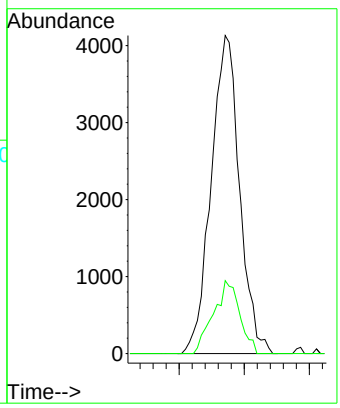


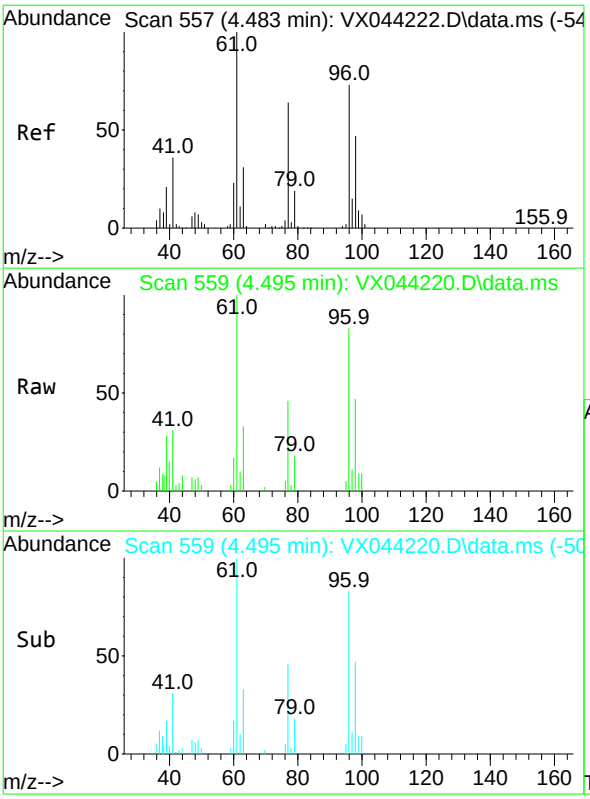


#26
2,2-Dichloropropane
Concen: 4.708 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 77 Resp: 12514

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.7	32.1

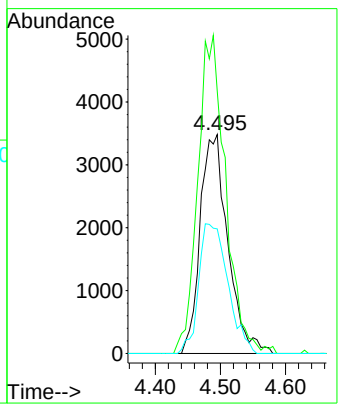




#27
cis-1,2-Dichloroethene
Concen: 4.873 ug/l
RT: 4.495 min Scan# 55
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 96 Resp: 10292

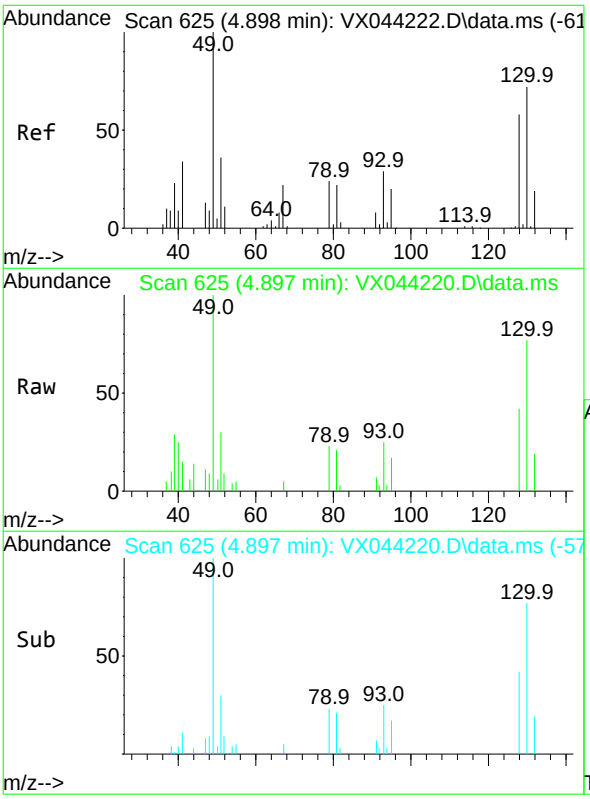
Ion	Ratio	Lower	Upper
96	100		
61	145.0	0.0	299.0
98	62.4	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

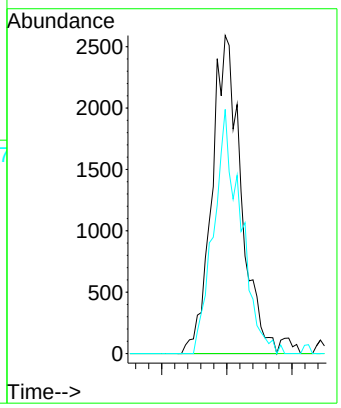
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

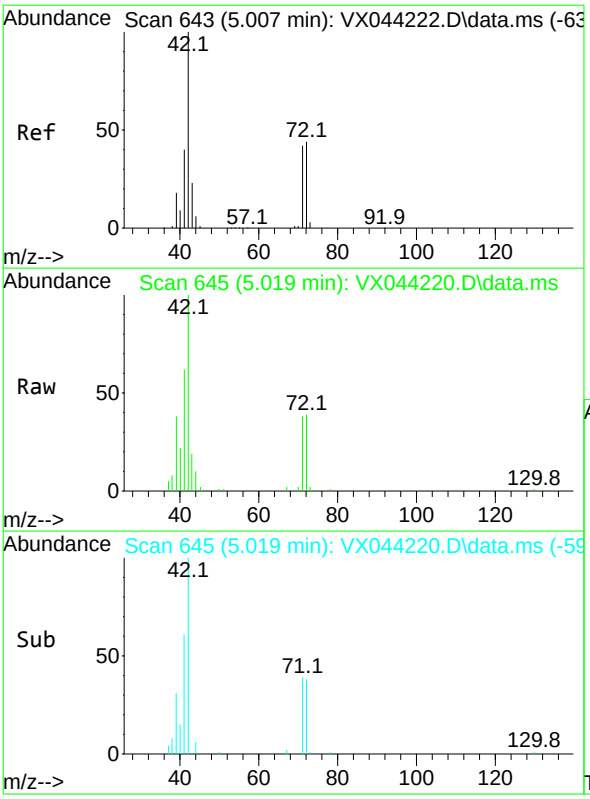


#28
Bromochloromethane
Concen: 5.017 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 49 Resp: 8049

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	71.2	62.1	93.1

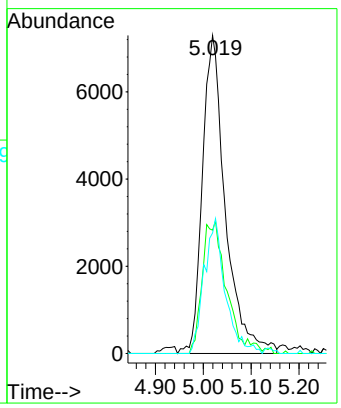




#29
Tetrahydrofuran
Concen: 26.693 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 42 Resp: 24307

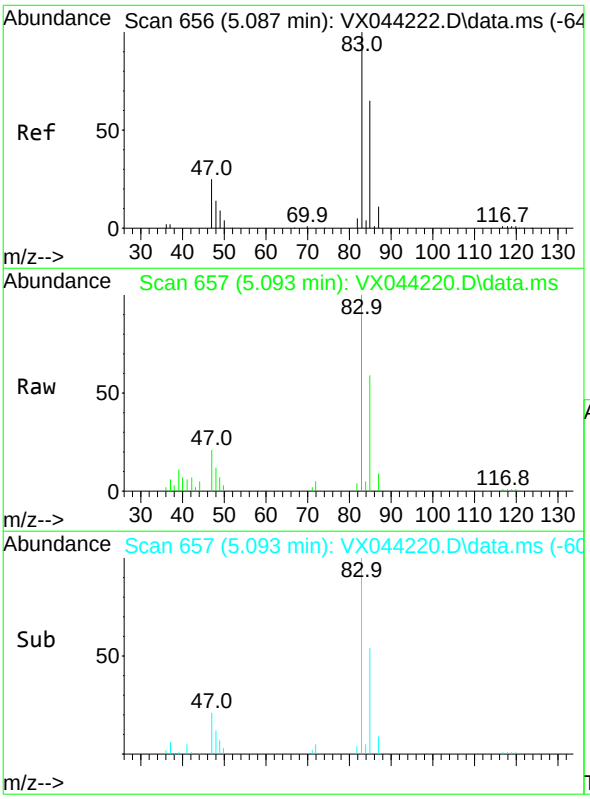
Ion	Ratio	Lower	Upper
42	100		
72	42.3	37.0	55.6
71	38.9	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

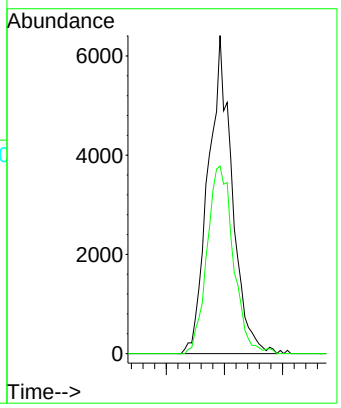
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

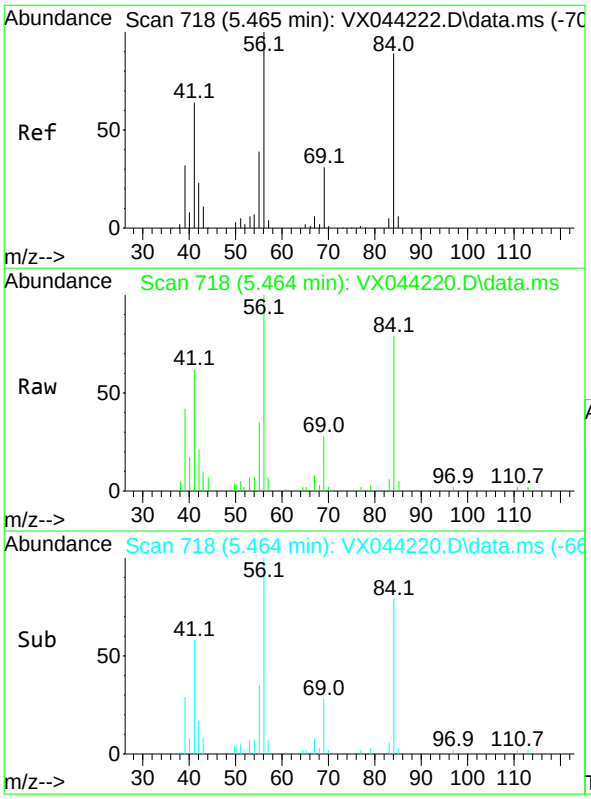


#30
Chloroform
Concen: 4.984 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 83 Resp: 18319

Ion	Ratio	Lower	Upper
83	100		
85	58.9	51.6	77.4

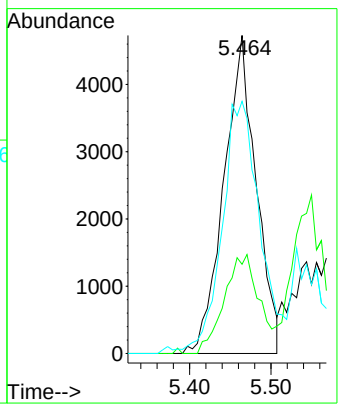




#31
Cyclohexane
Concen: 4.919 ug/l
RT: 5.464 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 56 Resp: 12995

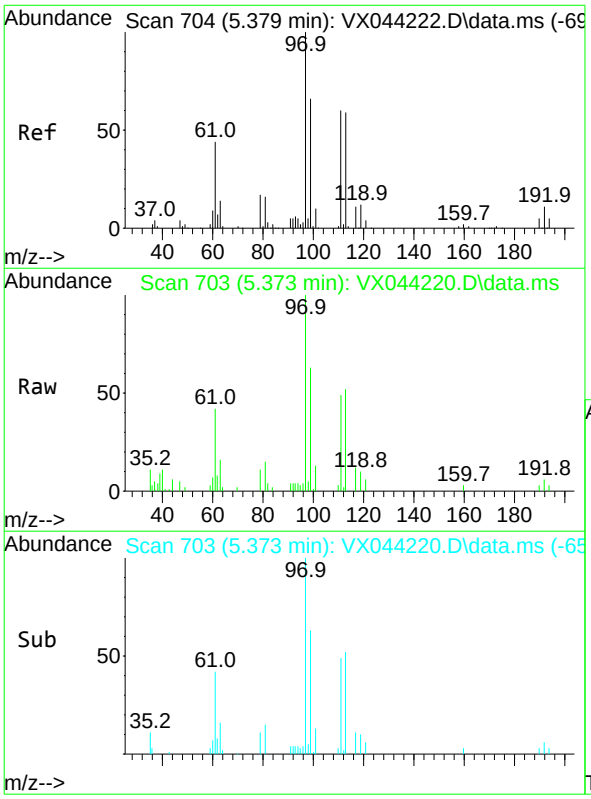
Ion	Ratio	Lower	Upper
56	100		
69	26.4	24.7	37.1
84	77.9	71.0	106.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

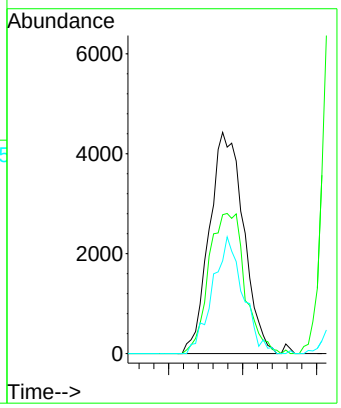
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

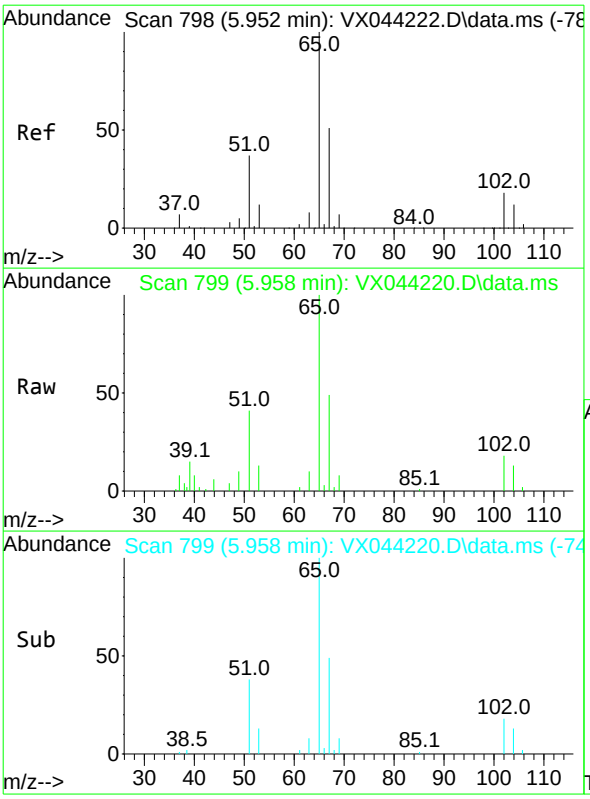


#32
1,1,1-Trichloroethane
Concen: 4.664 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 97 Resp: 14231

Ion	Ratio	Lower	Upper
97	100		
99	66.8	50.8	76.2
61	46.9	35.2	52.8





#33
1,2-Dichloroethane-d4
Concen: 5.328 ug/l
RT: 5.958 min Scan# 79
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

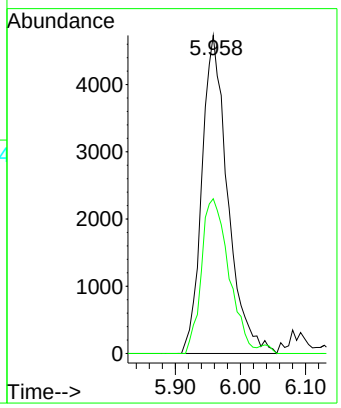
Tgt Ion: 65 Resp: 13043

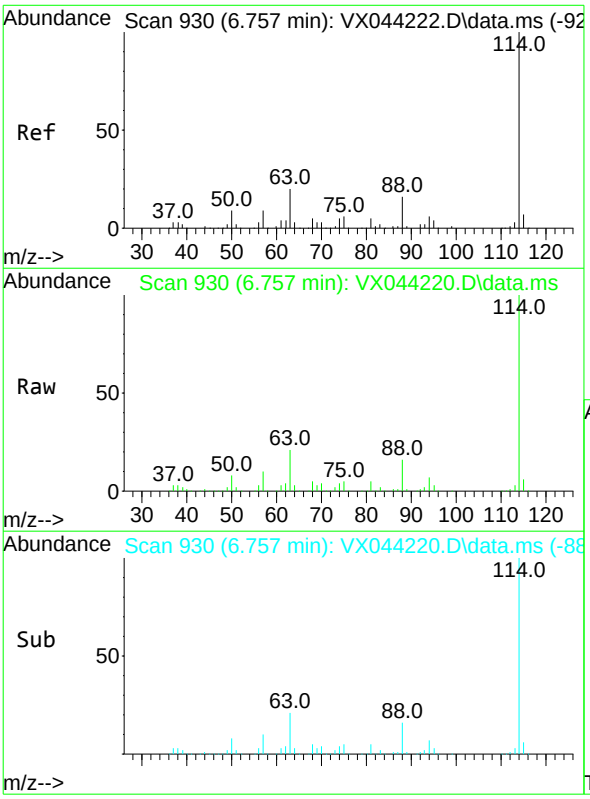
Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	101.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

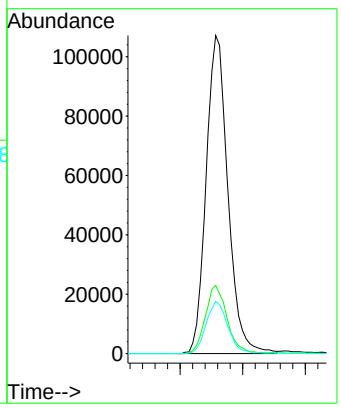


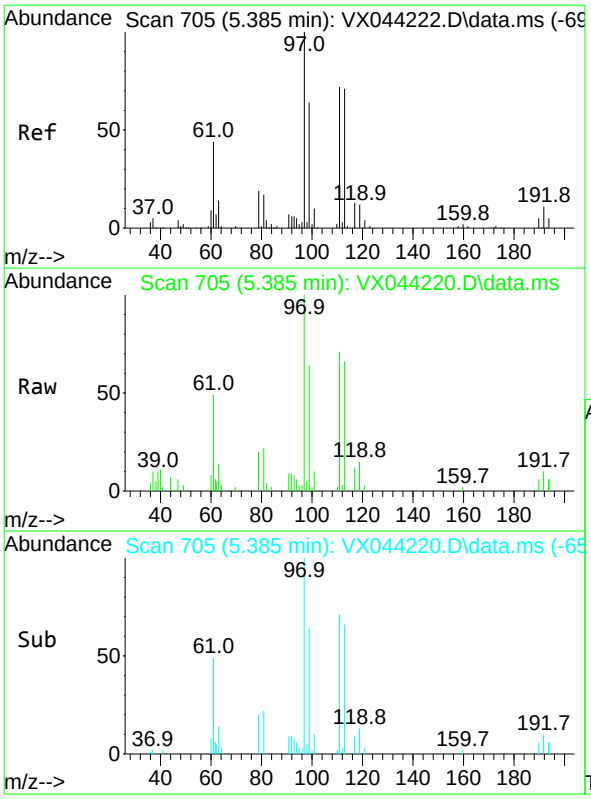


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:114 Resp: 258881

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	40.6
88	16.4	0.0	31.8

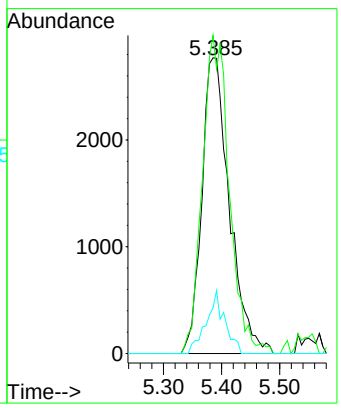




#35
Dibromofluoromethane
Concen: 5.100 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:113 Resp: 9145

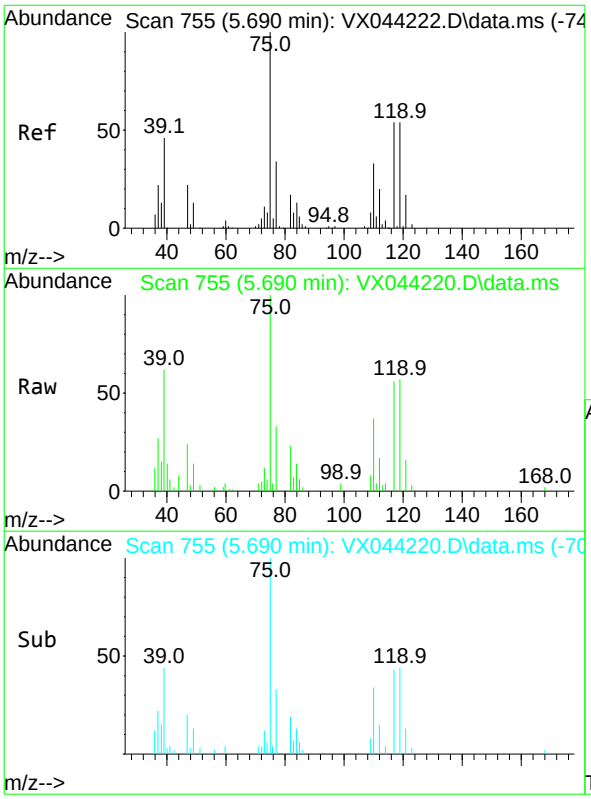
Ion	Ratio	Lower	Upper
113	100		
111	104.7	80.4	120.6
192	14.2	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

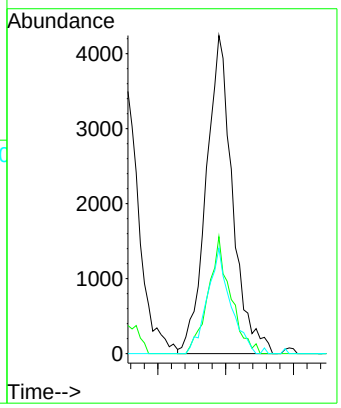
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

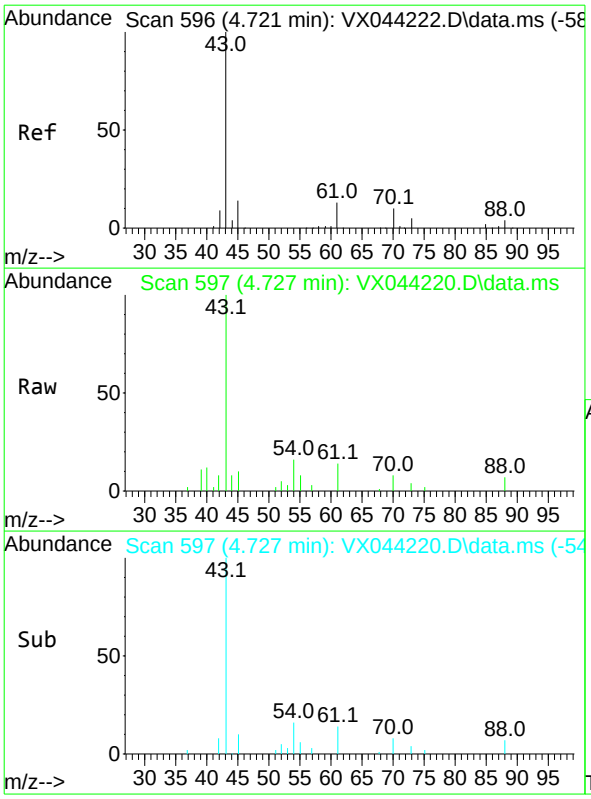


#36
1,1-Dichloropropene
Concen: 4.942 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 11455

Ion	Ratio	Lower	Upper
75	100		
110	31.1	17.3	51.7
77	28.7	25.4	38.0

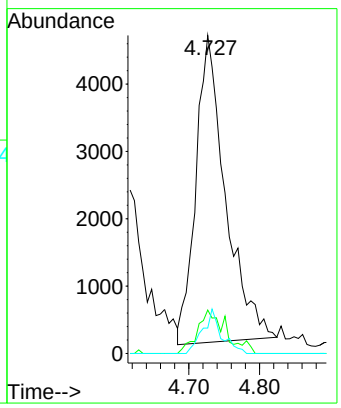




#37
Ethyl Acetate
Concen: 4.630 ug/l
RT: 4.727 min Scan# 59
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 13265

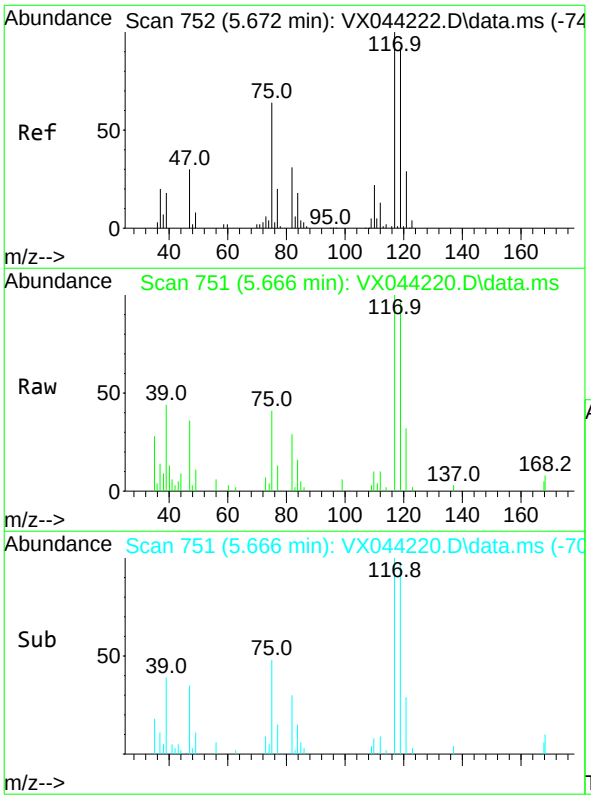
Ion	Ratio	Lower	Upper
43	100		
61	13.6	9.8	14.8
70	9.1	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

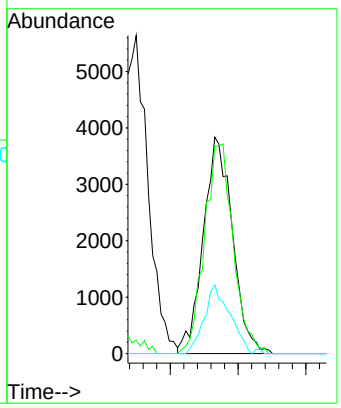
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

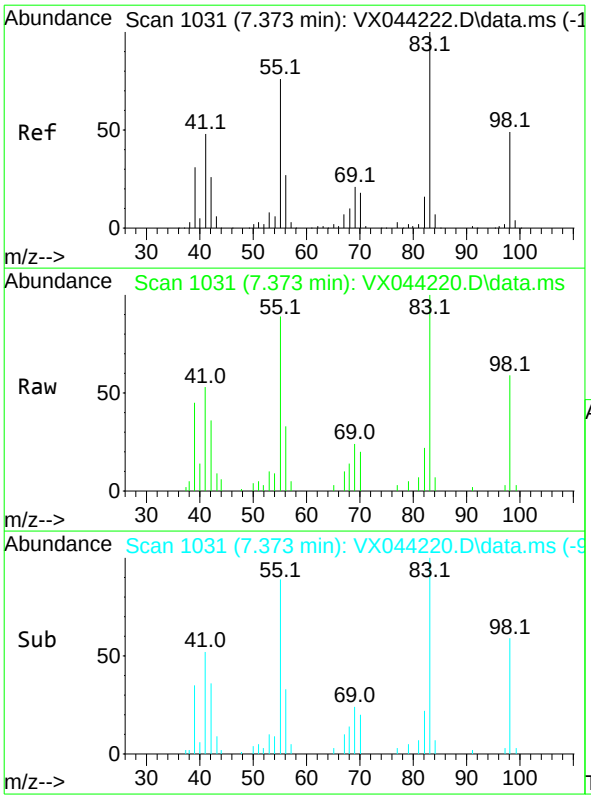


#38
Carbon Tetrachloride
Concen: 4.599 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:117 Resp: 11476

Ion	Ratio	Lower	Upper
117	100		
119	95.8	74.2	111.4
121	31.7	23.0	34.6





#39
Methylcyclohexane
Concen: 4.699 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

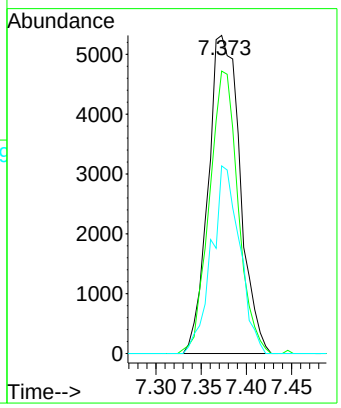
Tgt Ion: 83 Resp: 13019

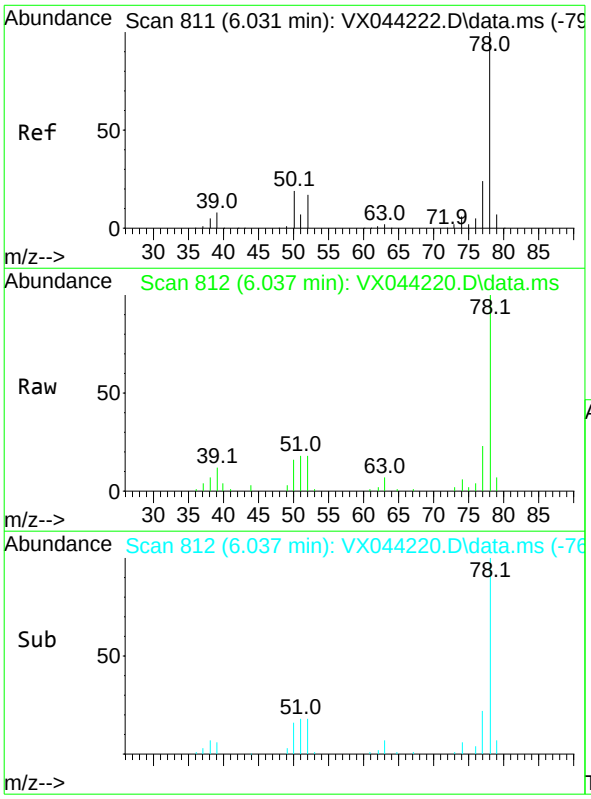
Ion	Ratio	Lower	Upper
83	100		
55	88.8	60.7	91.1
98	59.0	38.9	58.3#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

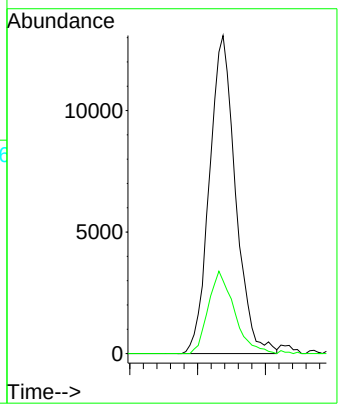


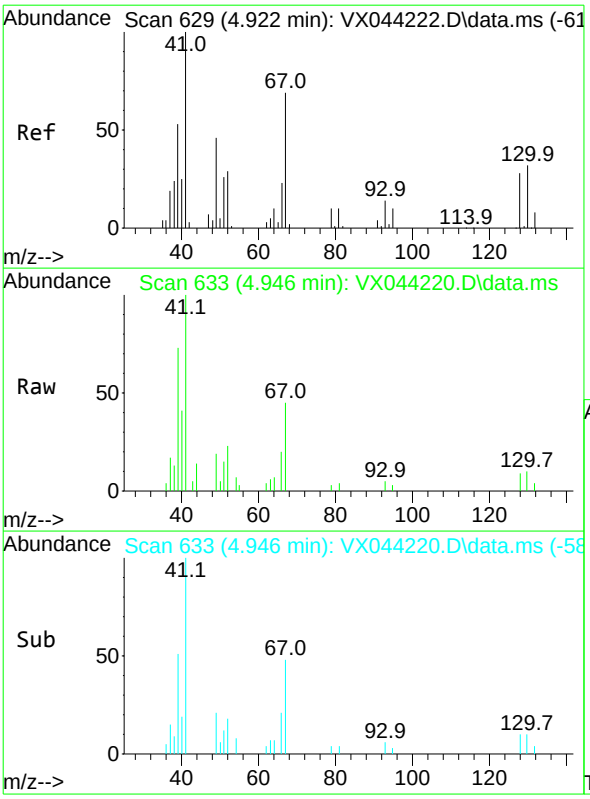


#40
Benzene
Concen: 4.976 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 78 Resp: 35018

Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.3	28.9

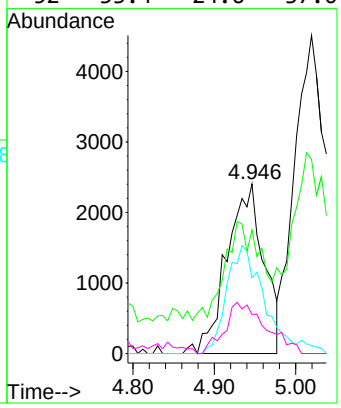




#41
Methacrylonitrile
Concen: 4.986 ug/l
RT: 4.946 min Scan# 63
Delta R.T. 0.024 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 41 Resp: 7585

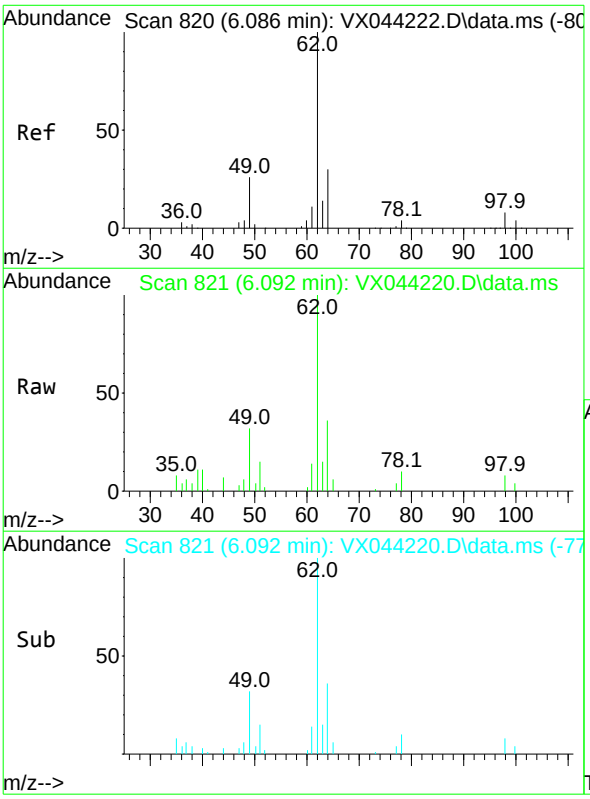
Ion	Ratio	Lower	Upper
41	100		
39	58.4	44.2	66.4
67	63.0	57.2	85.8
52	33.4	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

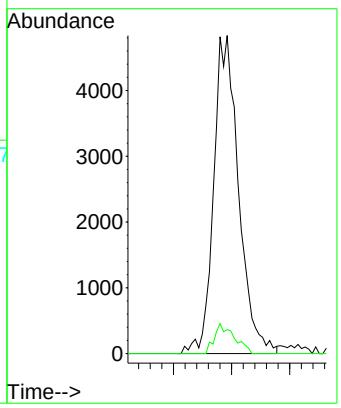
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

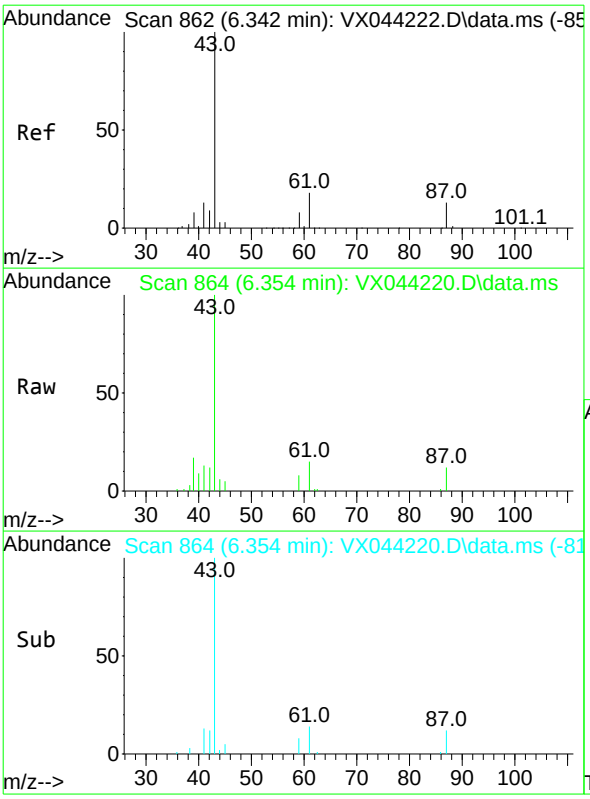


#42
1,2-Dichloroethane
Concen: 4.974 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 62 Resp: 14419

Ion	Ratio	Lower	Upper
62	100		
98	7.5	0.0	15.8

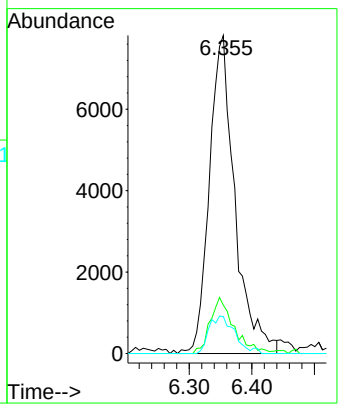




#43
Isopropyl Acetate
Concen: 4.935 ug/l
RT: 6.354 min Scan# 86
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 22098

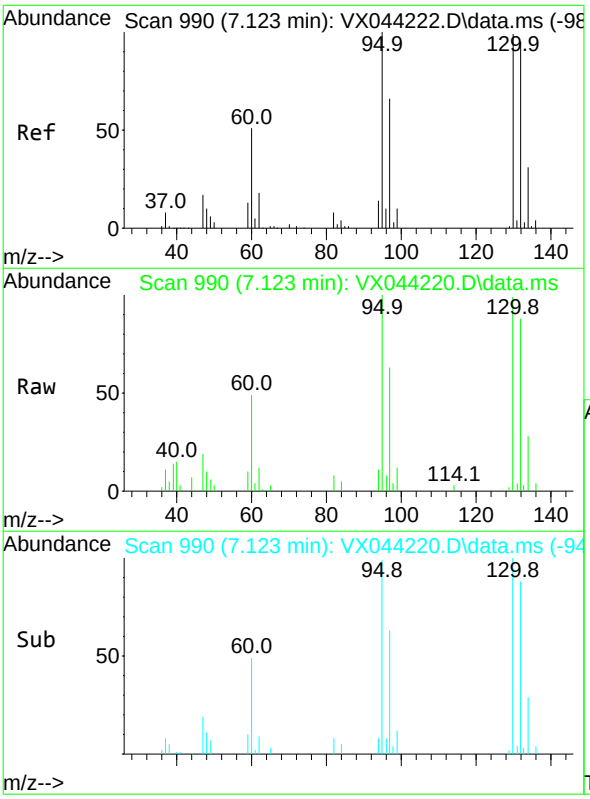
Ion	Ratio	Lower	Upper
43	100		
61	16.5	14.2	21.2
87	11.9	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

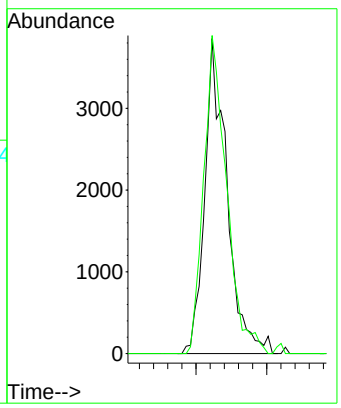
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

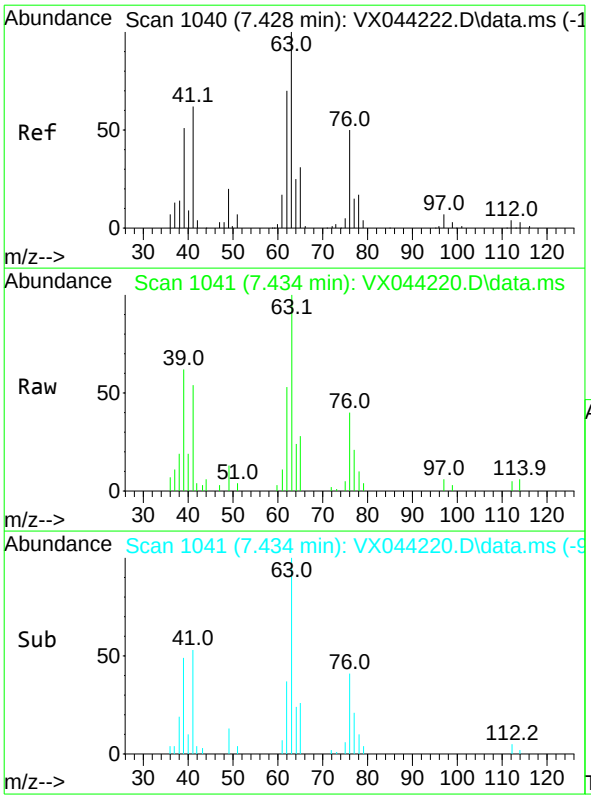


#44
Trichloroethene
Concen: 4.790 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:130 Resp: 8405

Ion	Ratio	Lower	Upper
130	100		
95	100.9	0.0	201.4

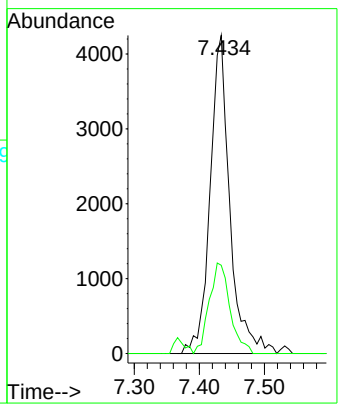




#45
1,2-Dichloropropane
Concen: 4.968 ug/l
RT: 7.434 min Scan# 10
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 63 Resp: 8932

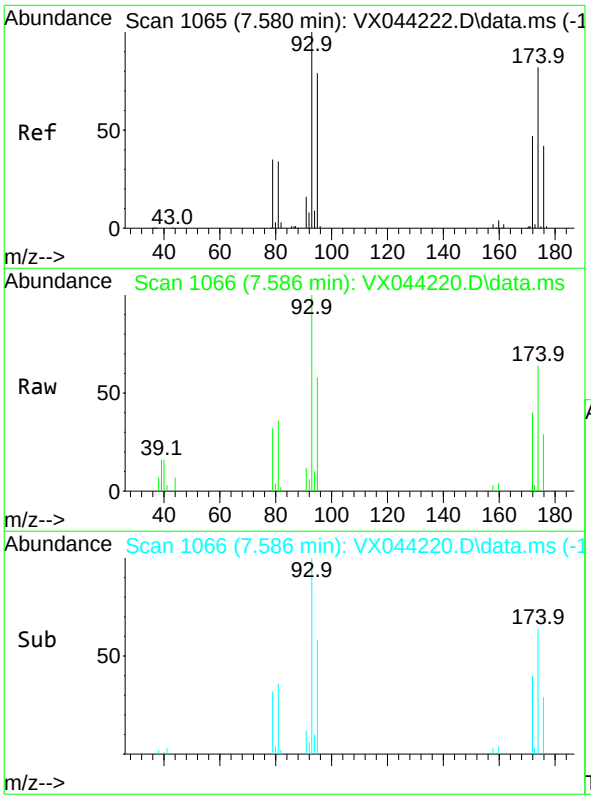
Ion	Ratio	Lower	Upper
63	100		
65	27.8	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

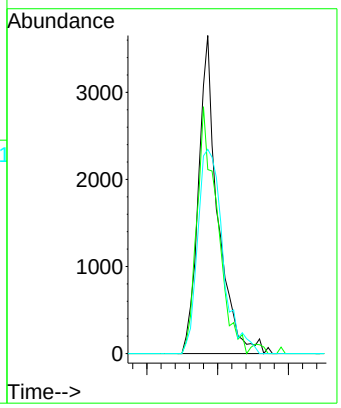
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

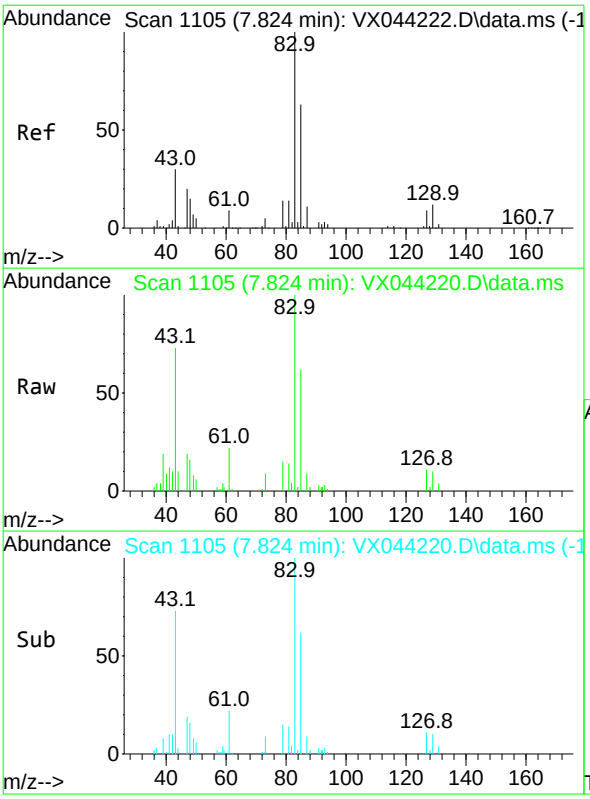


#46
Dibromomethane
Concen: 4.958 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 93 Resp: 6915

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.4	98.2
174	83.6	67.9	101.9

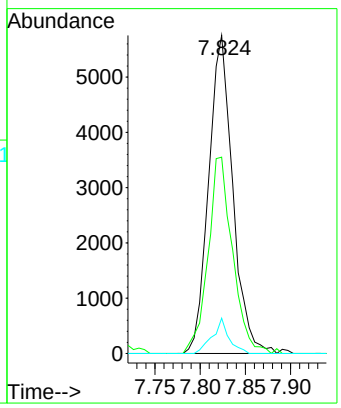




#47
Bromodichloromethane
Concen: 4.420 ug/l
RT: 7.824 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 83 Resp: 10646

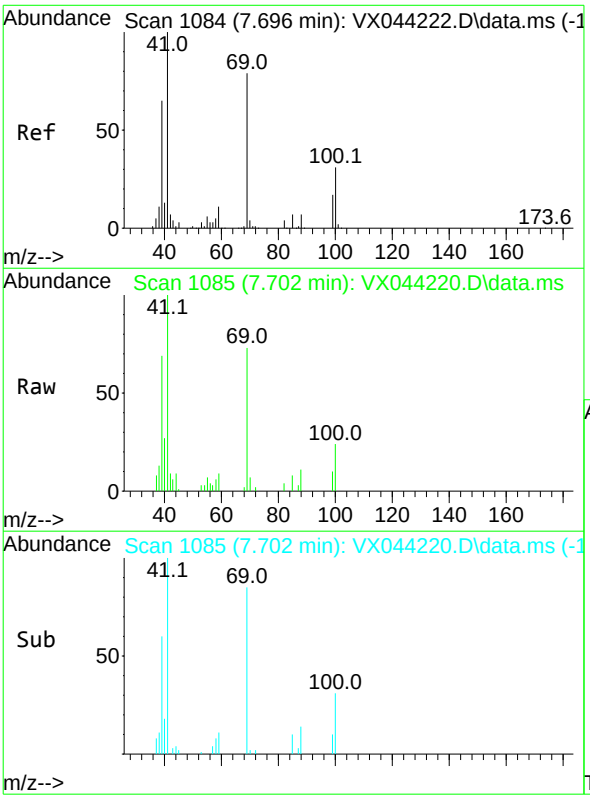
Ion	Ratio	Lower	Upper
83	100		
85	61.7	50.6	75.8
127	11.1	7.3	10.9#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

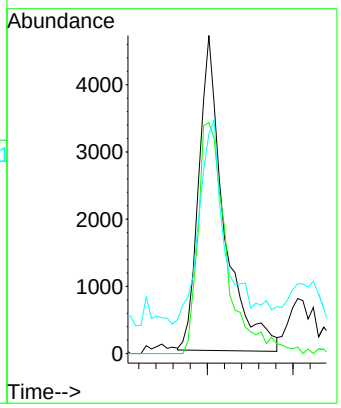
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

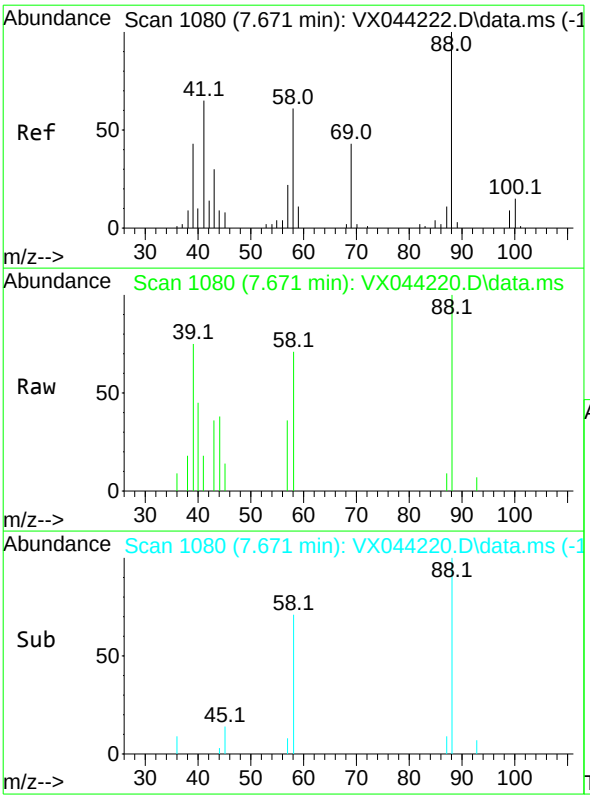


#48
Methyl methacrylate
Concen: 4.410 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 41 Resp: 9586

Ion	Ratio	Lower	Upper
41	100		
69	82.8	62.4	93.6
39	66.7	53.3	79.9

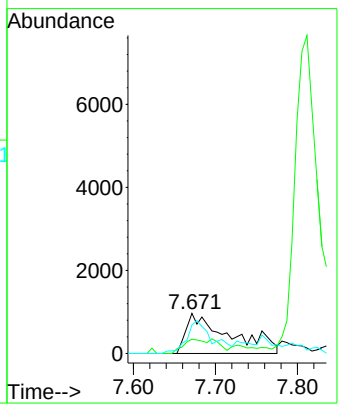




#49
1,4-Dioxane
Concen: 95.429 ug/l m
RT: 7.671 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 88 Resp: 3545

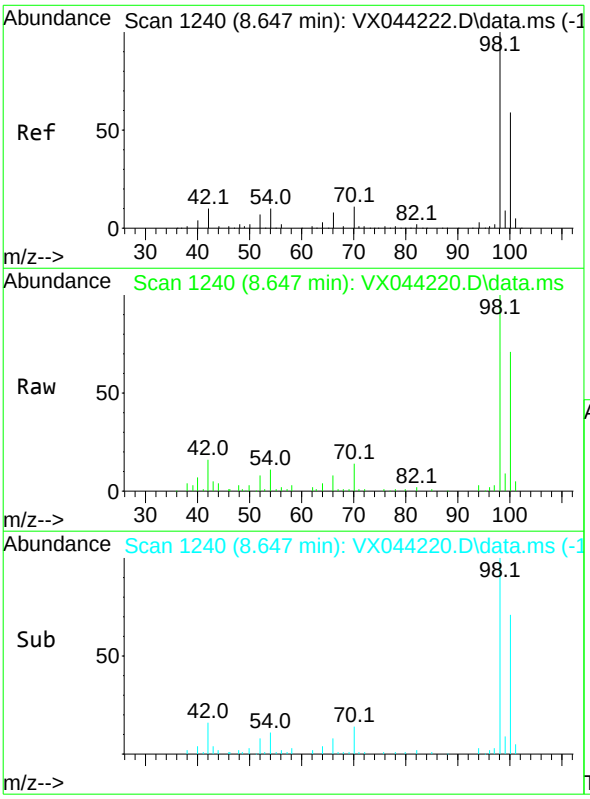
Ion	Ratio	Lower	Upper
88	100		
43	18.3	27.1	40.7#
58	48.3	41.0	61.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

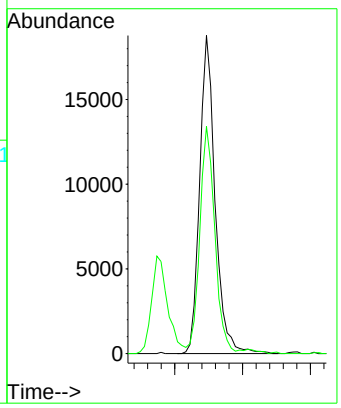
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

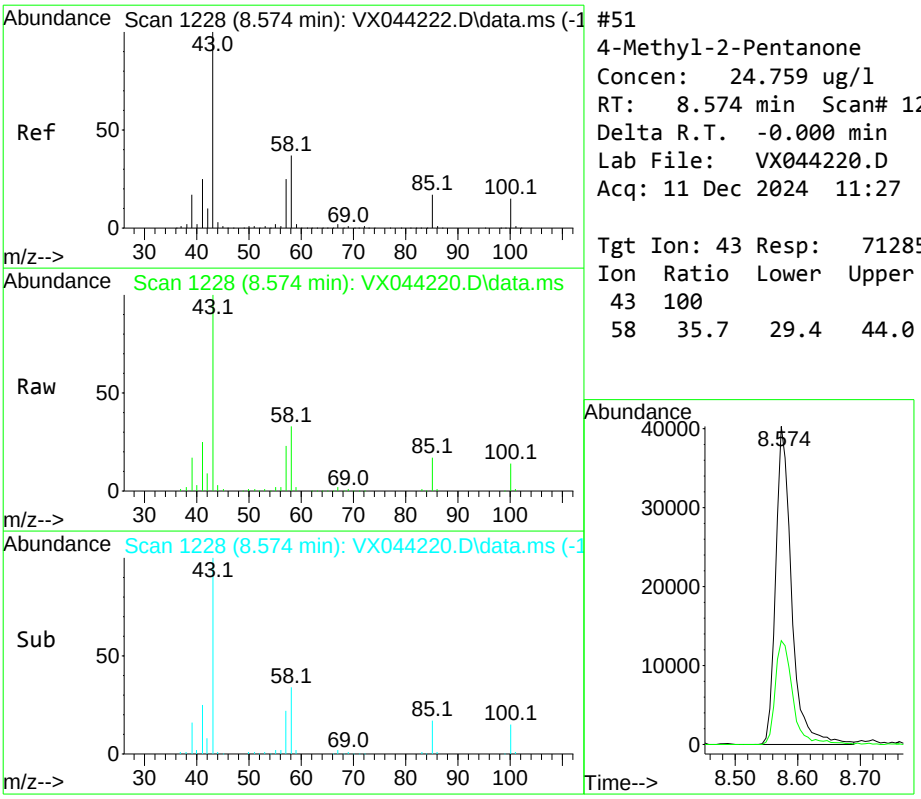


#50
Toluene-d8
Concen: 4.915 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 98 Resp: 29732

Ion	Ratio	Lower	Upper
98	100		
100	67.4	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 24.759 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

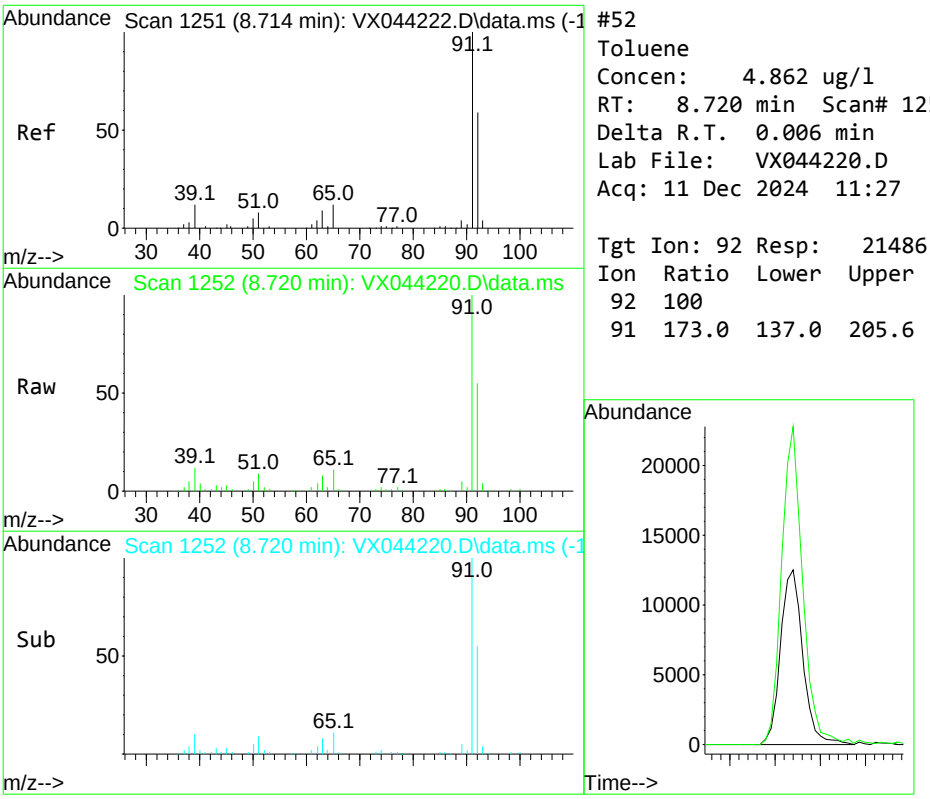
Tgt Ion: 43 Resp: 71285

Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.4	44.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

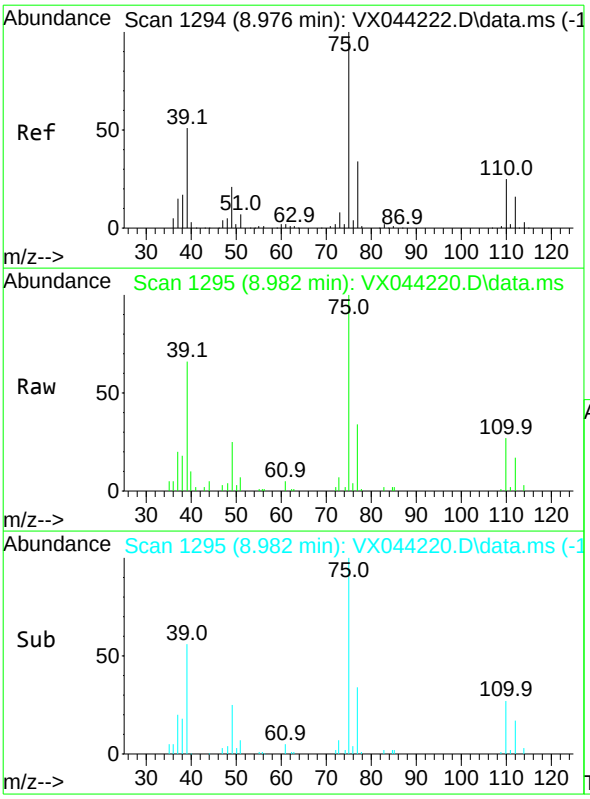
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#52
Toluene
Concen: 4.862 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 92 Resp: 21486

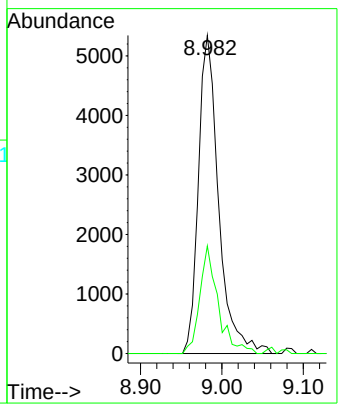
Ion	Ratio	Lower	Upper
92	100		
91	173.0	137.0	205.6



#53
t-1,3-Dichloropropene
Concen: 4.665 ug/l
RT: 8.982 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 9232

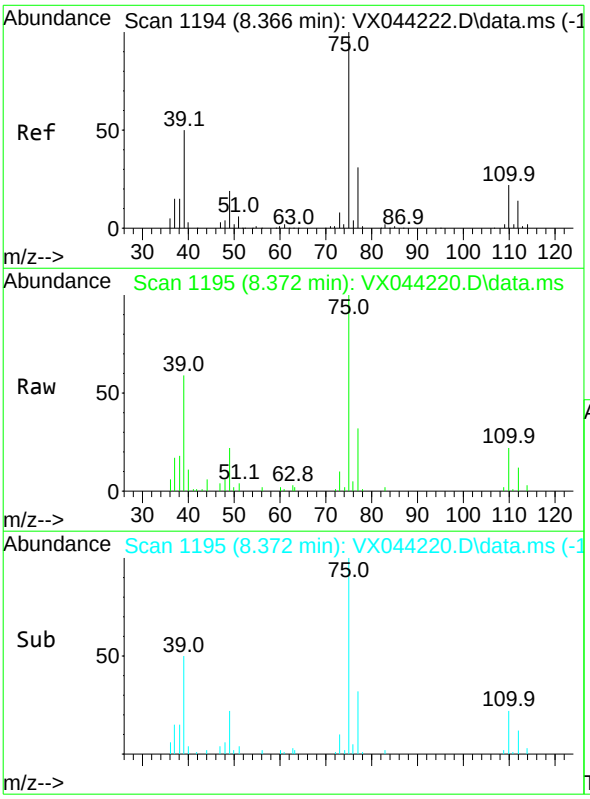
Ion	Ratio	Lower	Upper
75	100		
77	33.8	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

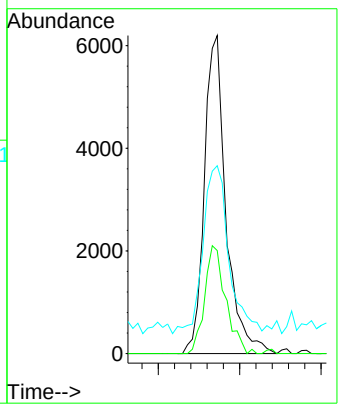
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

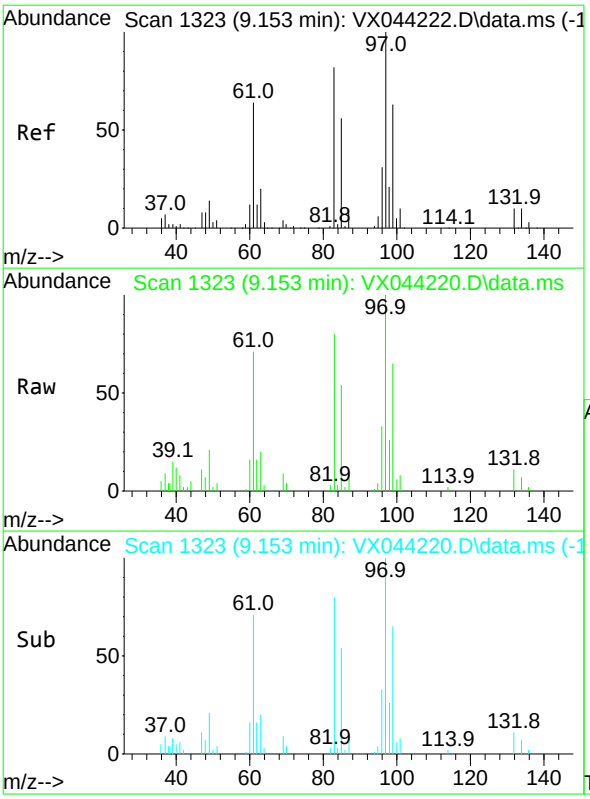


#54
cis-1,3-Dichloropropene
Concen: 4.348 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 11404

Ion	Ratio	Lower	Upper
75	100		
77	32.4	24.7	37.1
39	50.5	40.3	60.5

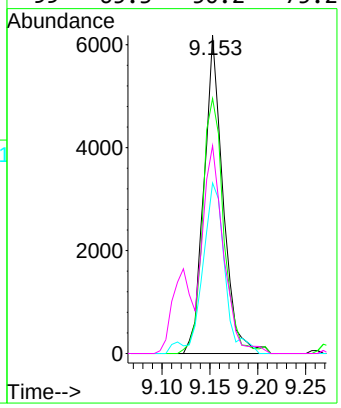




#55
1,1,2-Trichloroethane
Concen: 4.893 ug/l
RT: 9.153 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 97 Resp: 8590

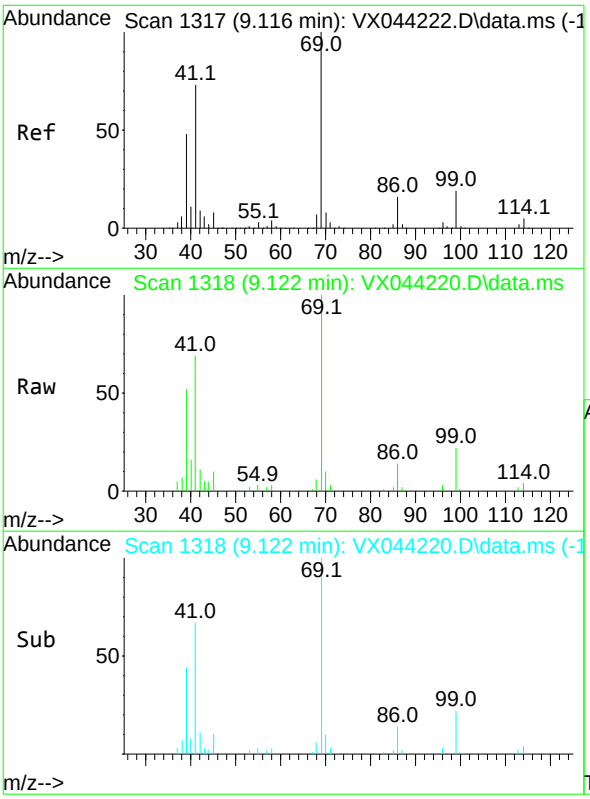
Ion	Ratio	Lower	Upper
97	100		
83	80.2	65.3	97.9
85	53.6	44.6	67.0
99	65.3	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

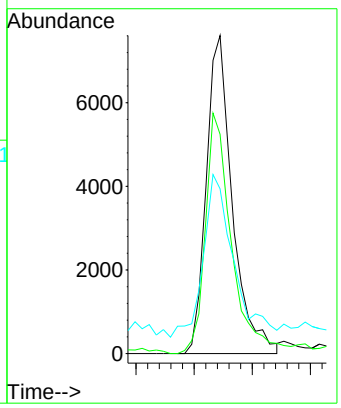
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

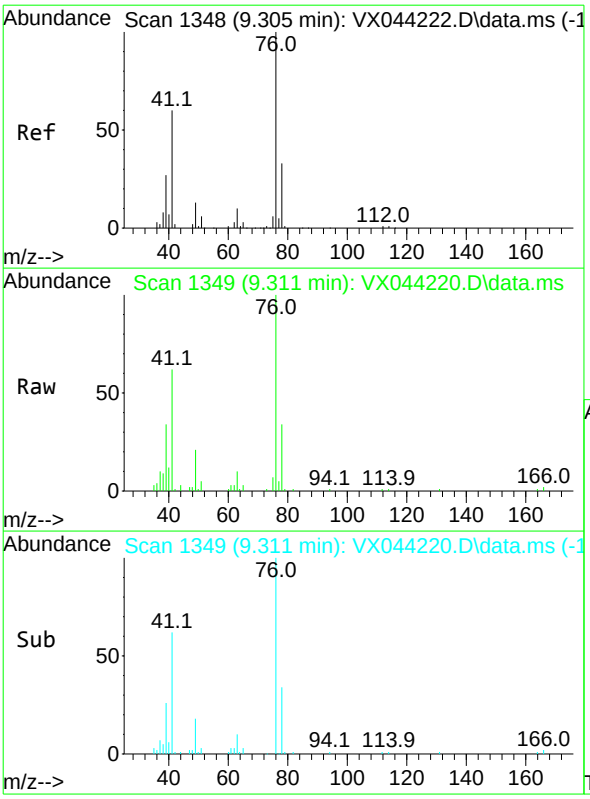


#56
Ethyl methacrylate
Concen: 4.277 ug/l
RT: 9.122 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 69 Resp: 11854

Ion	Ratio	Lower	Upper
69	100		
41	76.0	56.6	85.0
39	58.7	37.4	56.0#

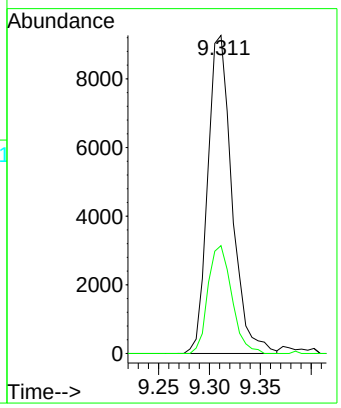




#57
1,3-Dichloropropane
Concen: 5.024 ug/l
RT: 9.311 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 76 Resp: 15352

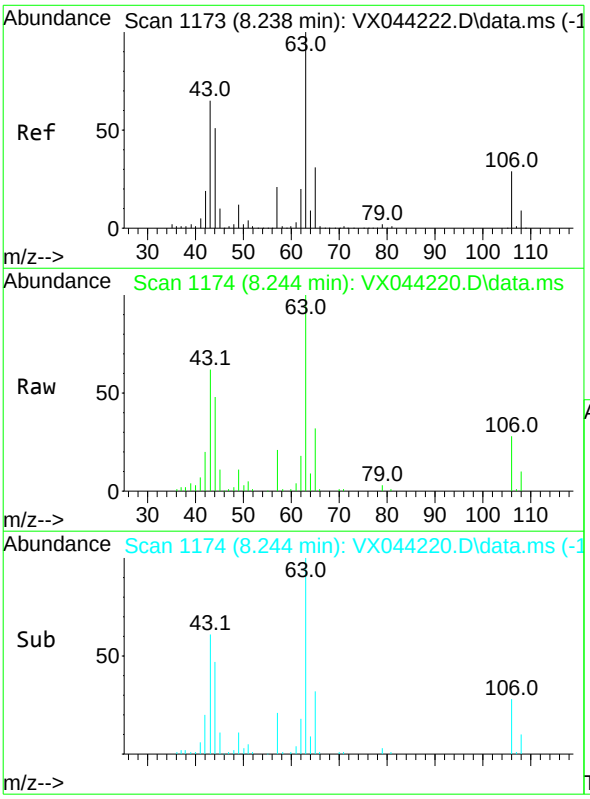
Ion	Ratio	Lower	Upper
76	100		
78	33.3	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

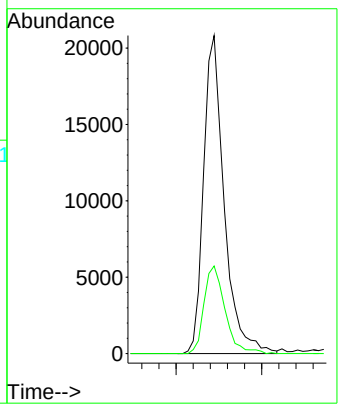
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

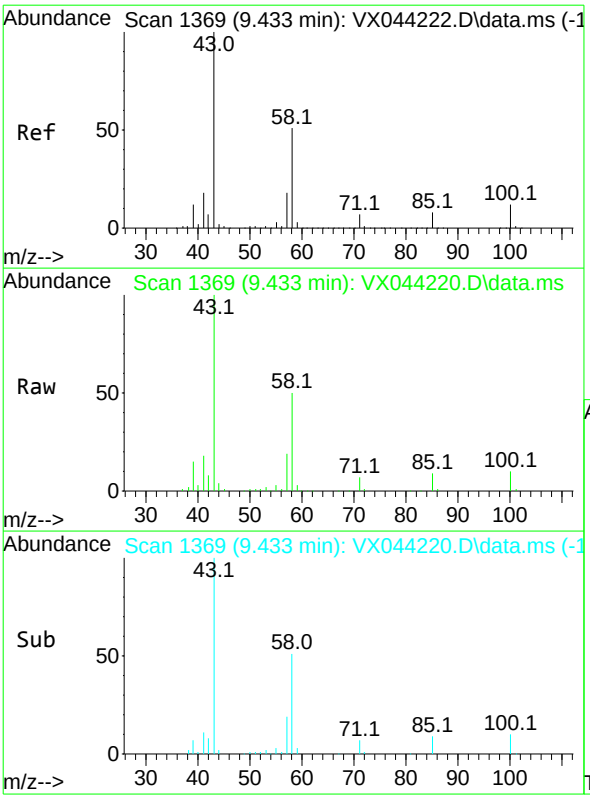


#58
2-Chloroethyl Vinyl ether
Concen: 24.852 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 63 Resp: 34738

Ion	Ratio	Lower	Upper
63	100		
106	28.1	22.8	34.2





#59
2-Hexanone
Concen: 23.994 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

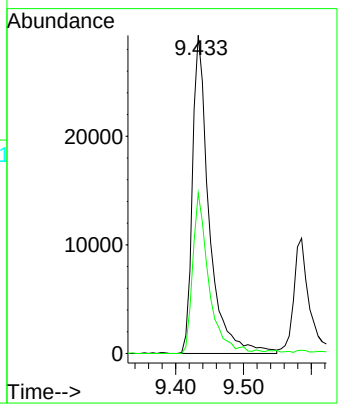
Tgt Ion: 43 Resp: 50003

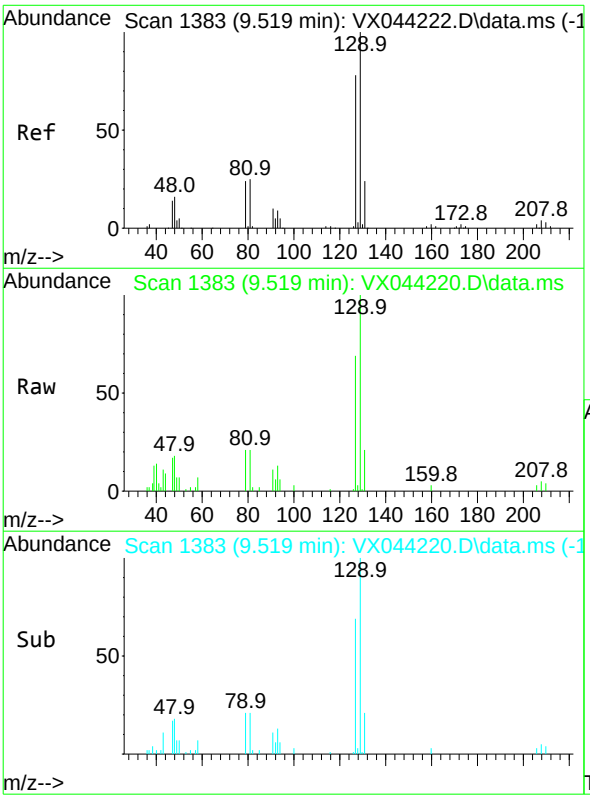
Ion	Ratio	Lower	Upper
43	100		
58	48.6	25.7	77.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

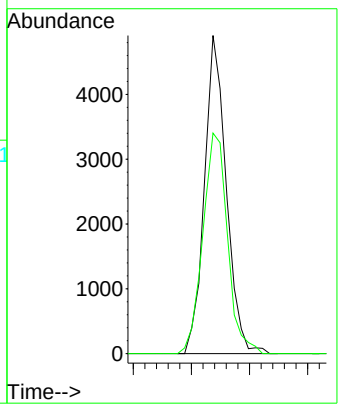


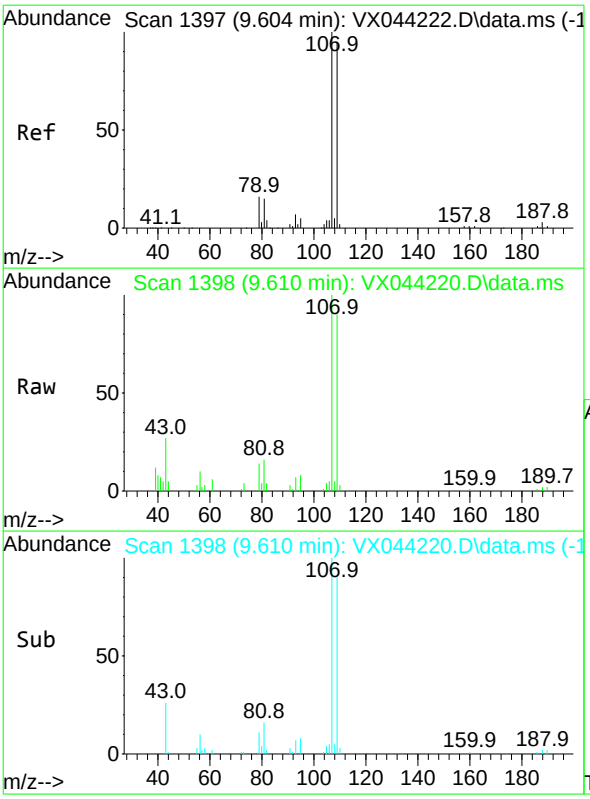


#60
Dibromochloromethane
Concen: 4.738 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:129 Resp: 6411

Ion	Ratio	Lower	Upper
129	100		
127	78.3	38.5	115.3

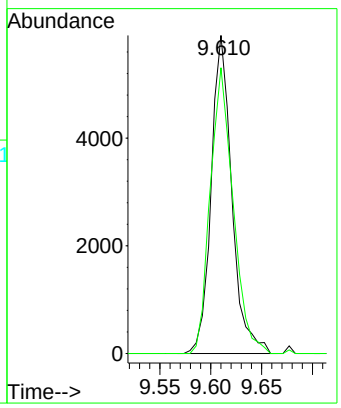




#61
1,2-Dibromoethane
Concen: 4.662 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:107 Resp: 8330

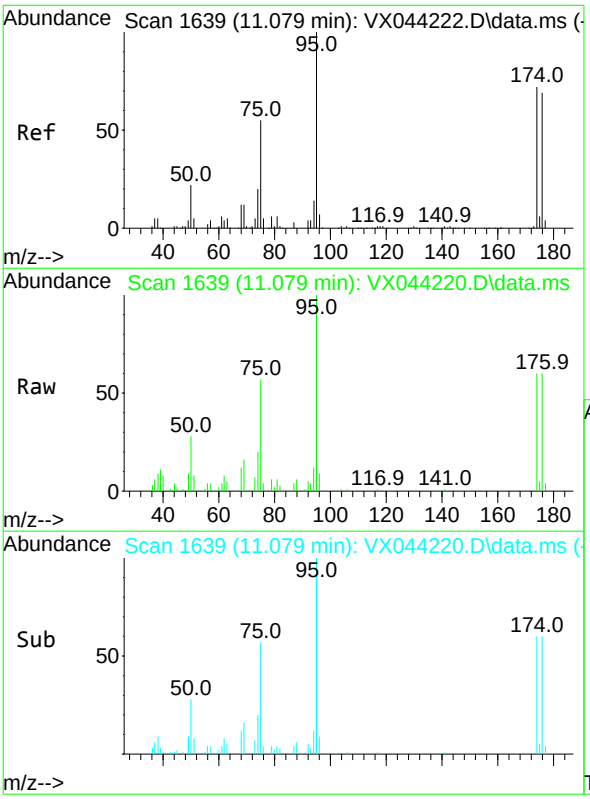
Ion	Ratio	Lower	Upper
107	100		
109	99.5	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

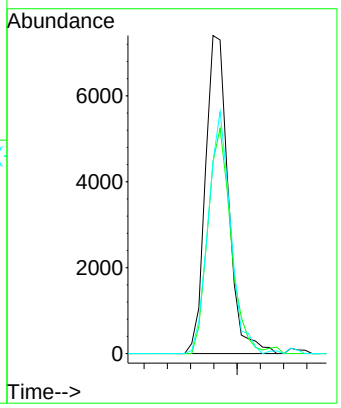
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

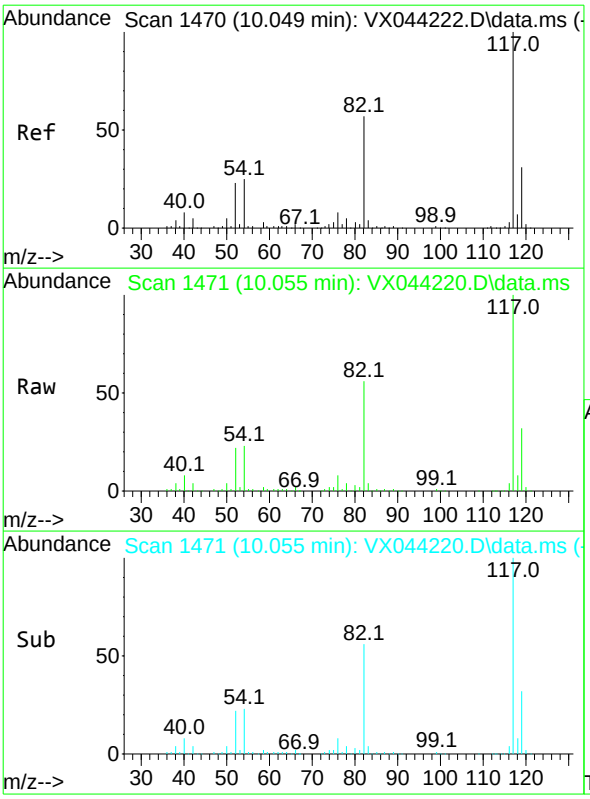


#62
4-Bromofluorobenzene
Concen: 4.779 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 95 Resp: 10101

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	145.8
176	74.4	0.0	137.8

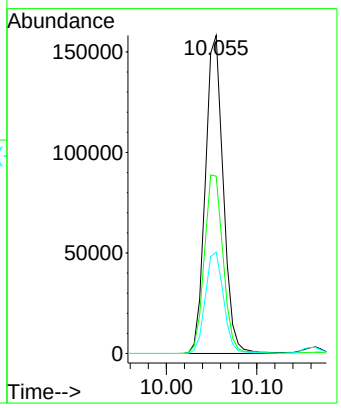




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:117 Resp: 217783

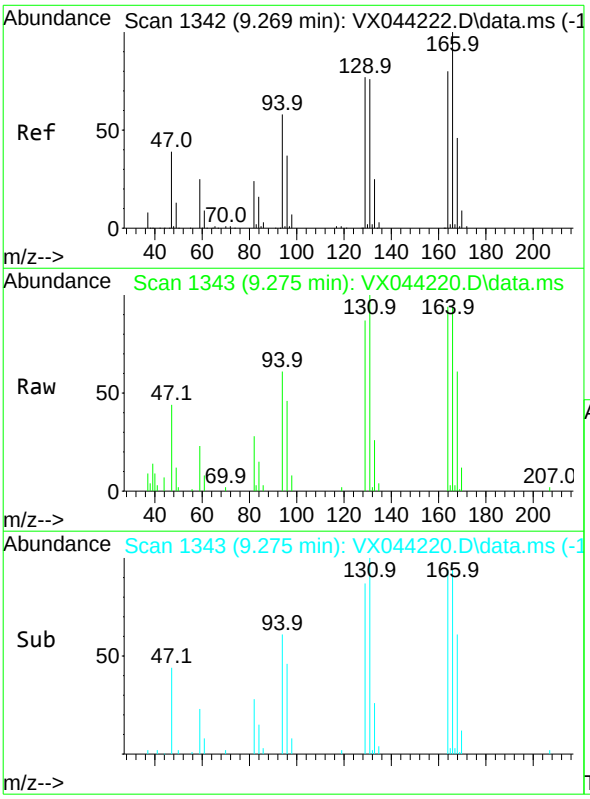
Ion	Ratio	Lower	Upper
117	100		
82	55.8	45.8	68.8
119	31.9	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

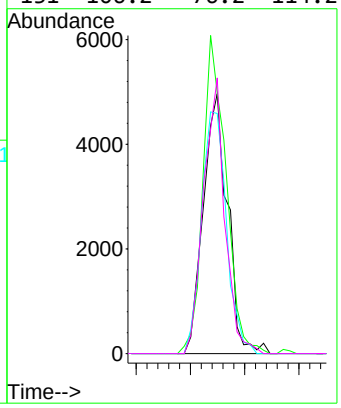
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

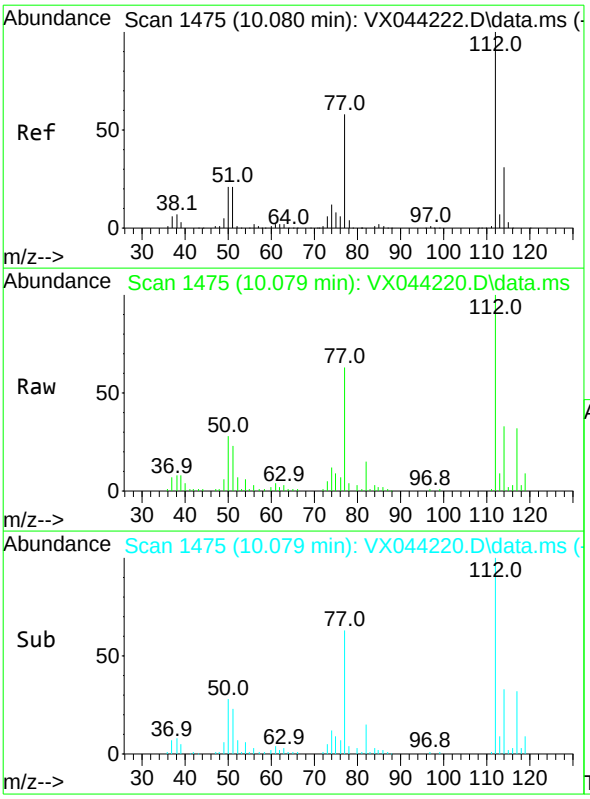


#64
Tetrachloroethene
Concen: 5.334 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:164 Resp: 7710

Ion	Ratio	Lower	Upper
164	100		
166	100.3	100.4	150.6#
129	92.5	77.2	115.8
131	106.2	76.2	114.2

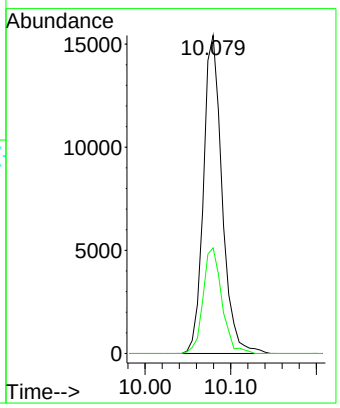




#65
Chlorobenzene
Concen: 4.986 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:112 Resp: 23268

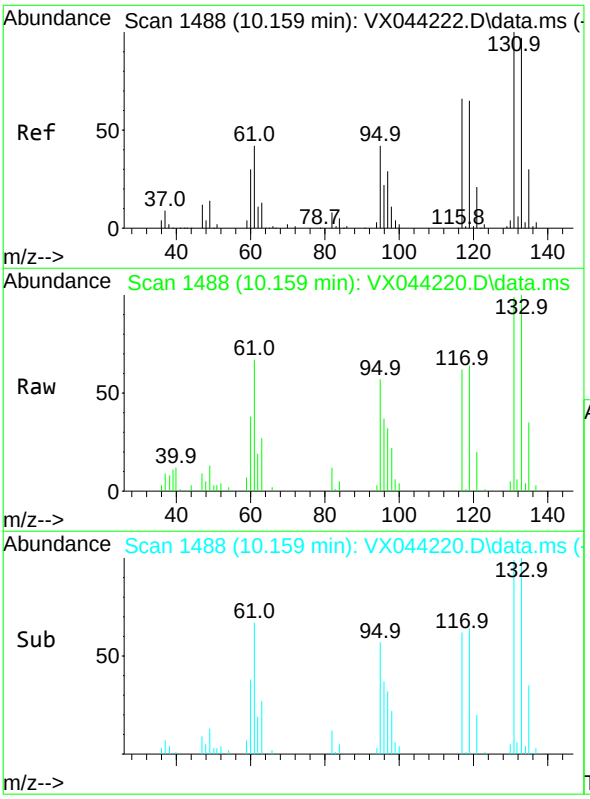
Ion	Ratio	Lower	Upper
112	100		
114	33.2	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

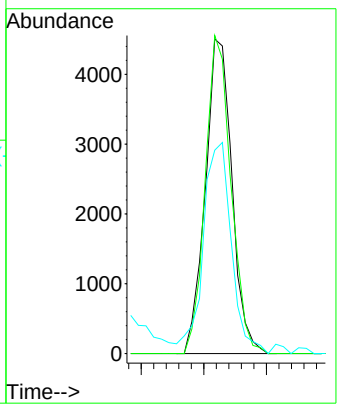
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

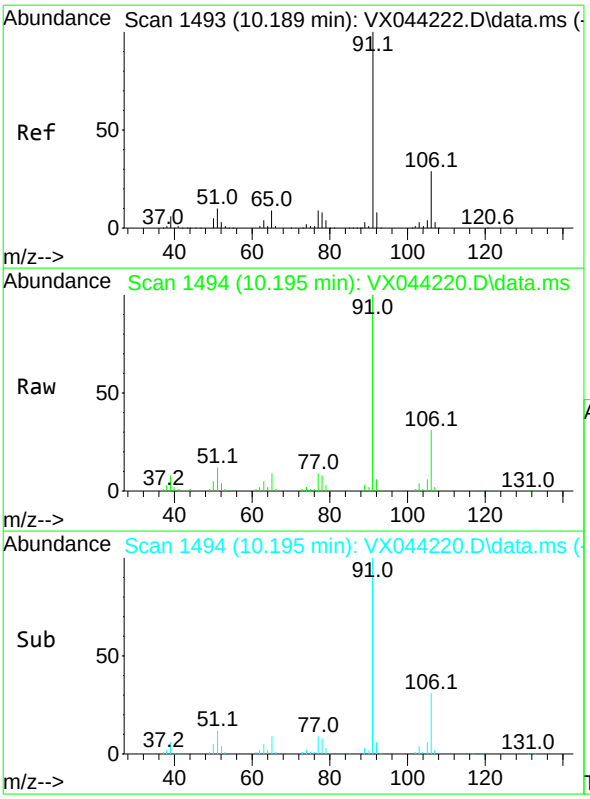


#66
1,1,1,2-Tetrachloroethane
Concen: 4.432 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:131 Resp: 6647

Ion	Ratio	Lower	Upper
131	100		
133	97.7	47.3	141.8
119	70.8	31.6	95.0

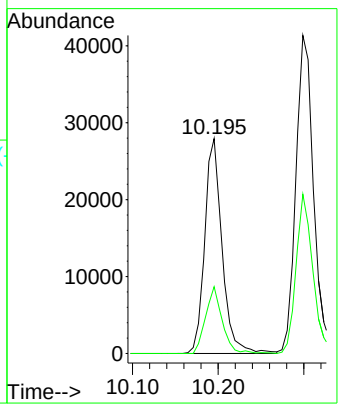




#67
Ethyl Benzene
Concen: 4.877 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 39326

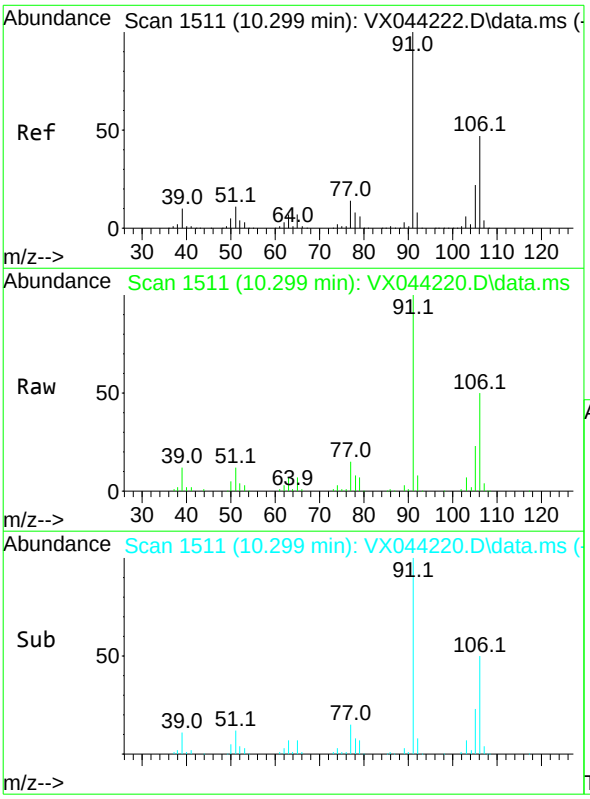
Ion	Ratio	Lower	Upper
91	100		
106	31.1	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

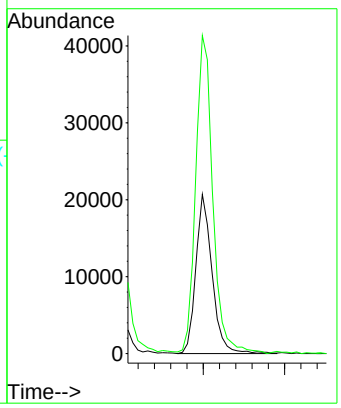
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

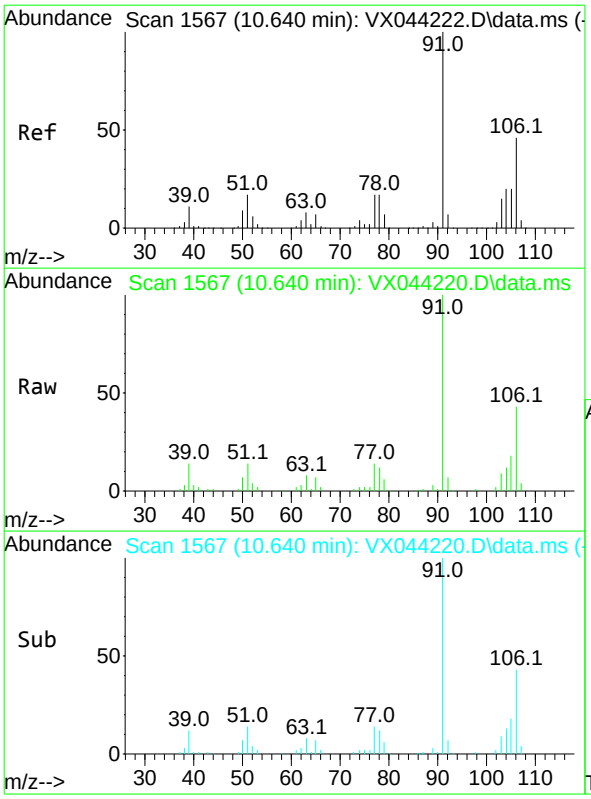


#68
m/p-Xylenes
Concen: 9.720 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:106 Resp: 28758

Ion	Ratio	Lower	Upper
106	100		
91	210.2	170.2	255.2

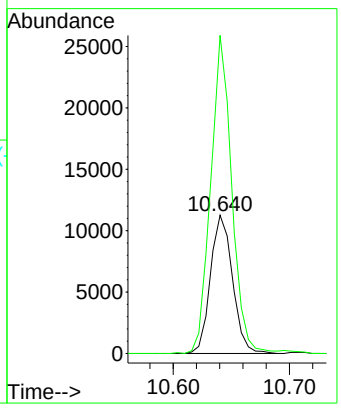




#69
o-Xylene
Concen: 4.965 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:106 Resp: 14864

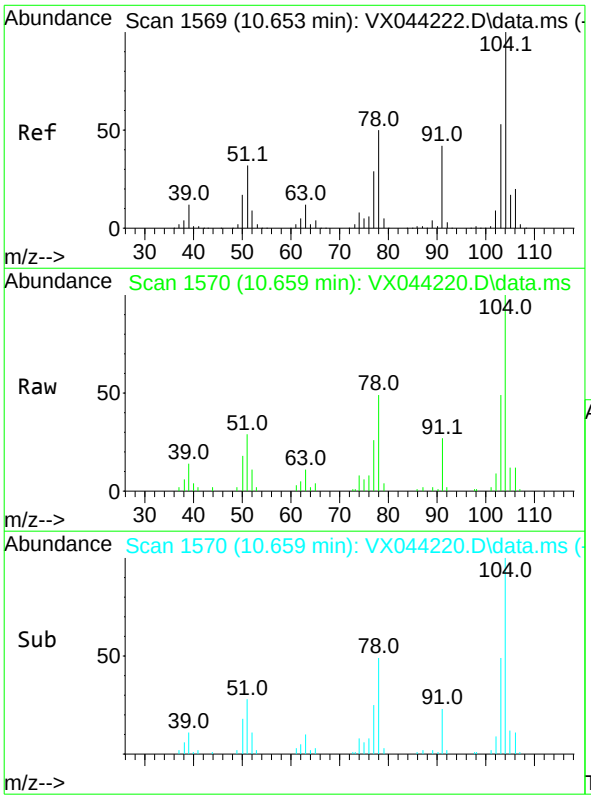
Ion	Ratio	Lower	Upper
106	100		
91	219.3	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

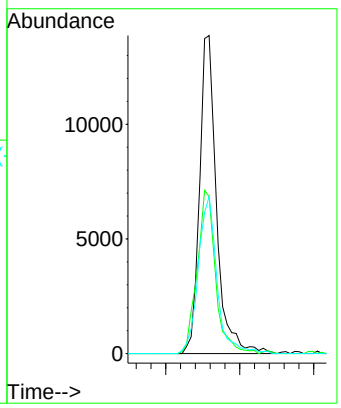
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

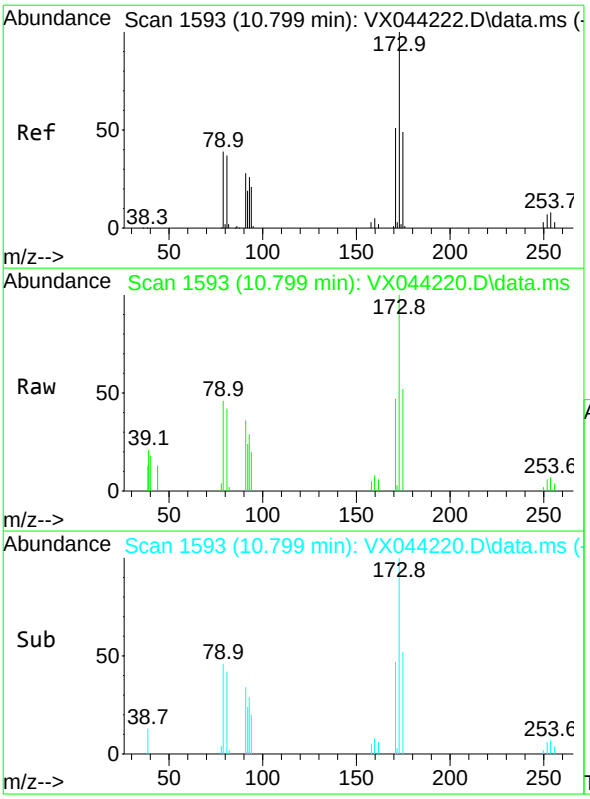


#70
Styrene
Concen: 4.624 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:104 Resp: 22191

Ion	Ratio	Lower	Upper
104	100		
78	55.5	44.6	67.0
103	54.6	45.4	68.0

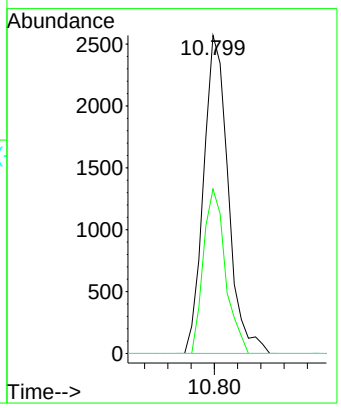




#71
Bromoform
Concen: 5.118 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:173 Resp: 3775

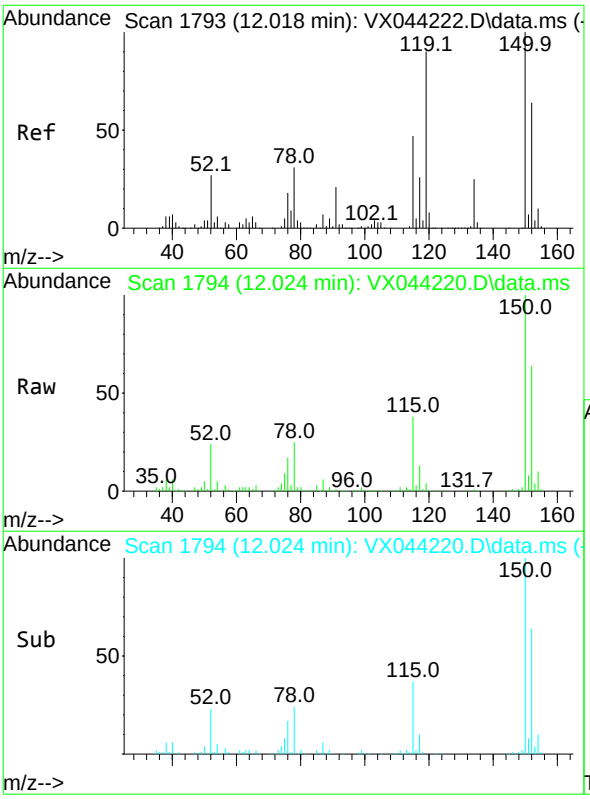
Ion	Ratio	Lower	Upper
173	100		
175	46.3	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

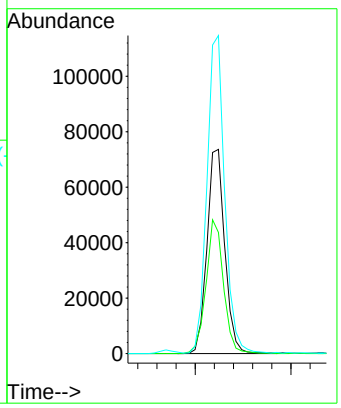
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

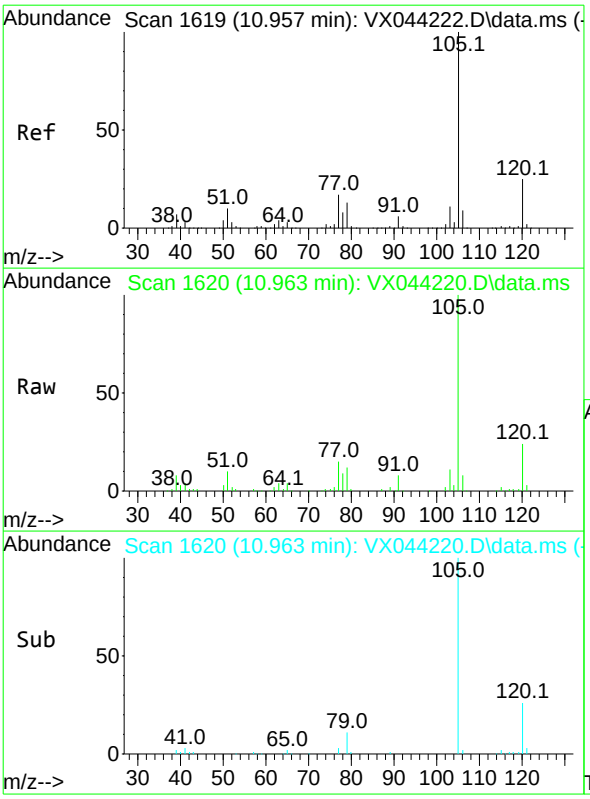


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:152 Resp: 95175

Ion	Ratio	Lower	Upper
152	100		
115	64.2	44.5	133.3
150	154.3	0.0	353.8

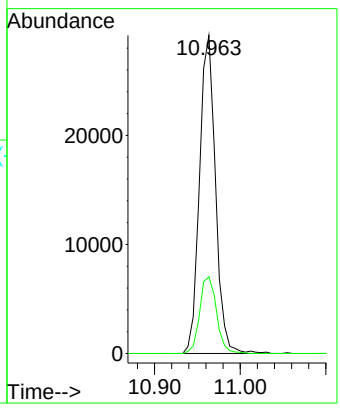




#73
Isopropylbenzene
Concen: 5.194 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:105 Resp: 37843

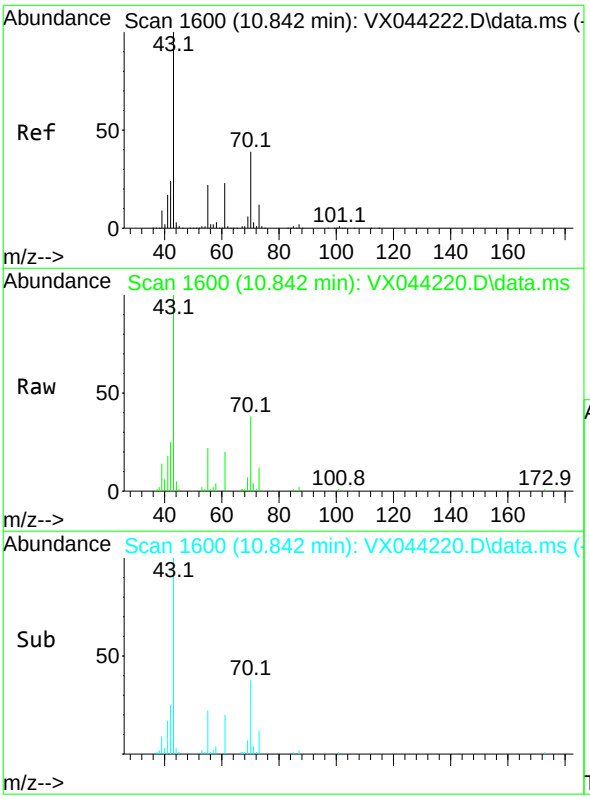
Ion	Ratio	Lower	Upper
105	100		
120	25.4	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

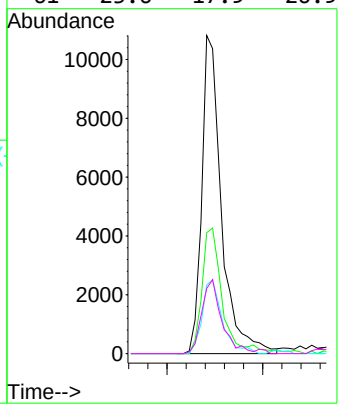
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

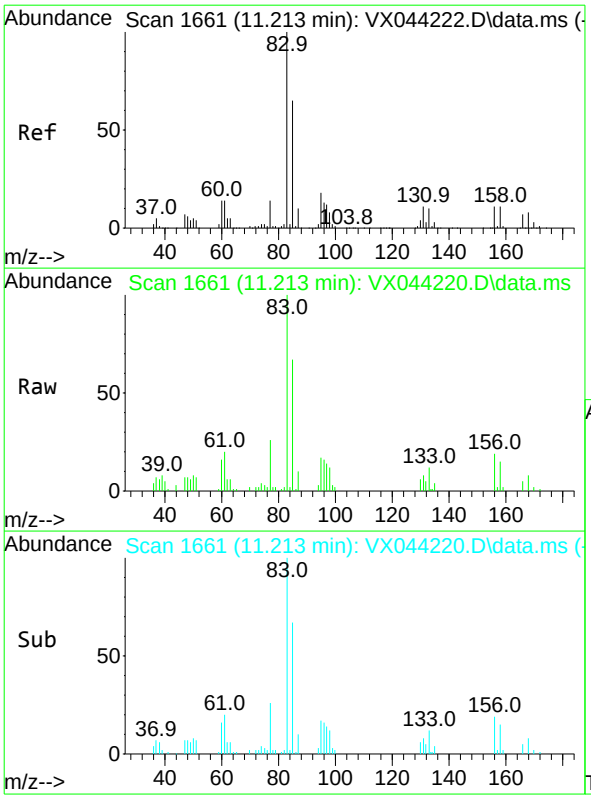


#74
N-amyl acetate
Concen: 4.579 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 15418

Ion	Ratio	Lower	Upper
43	100		
70	41.2	31.9	47.9
55	23.7	17.9	26.9
61	23.6	17.9	26.9

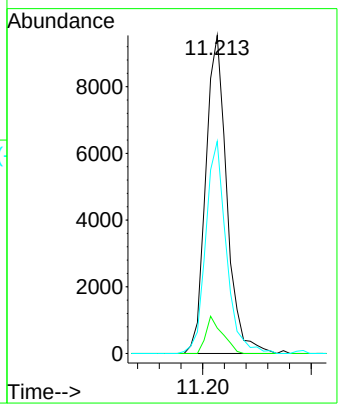




#75
1,1,2,2-Tetrachloroethane
Concen: 5.077 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 83 Resp: 12848

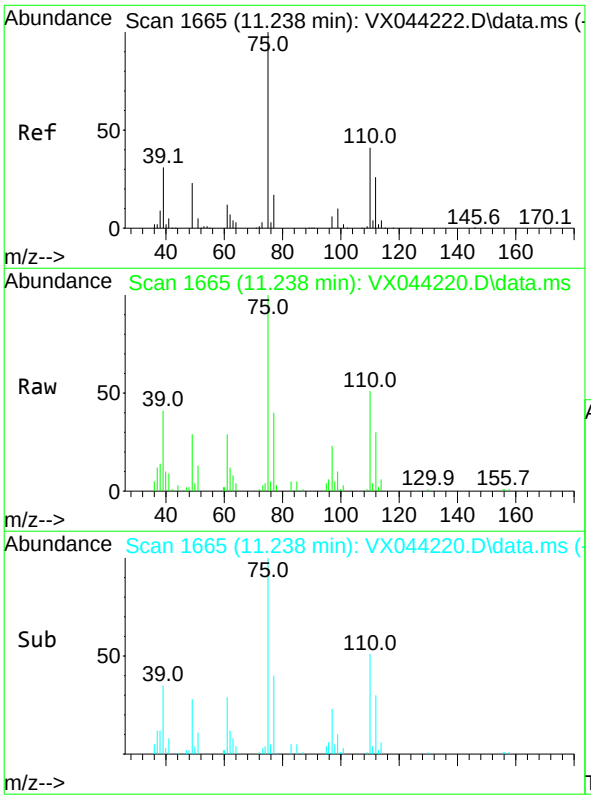
Ion	Ratio	Lower	Upper
83	100		
131	9.1	5.1	15.4
85	65.3	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

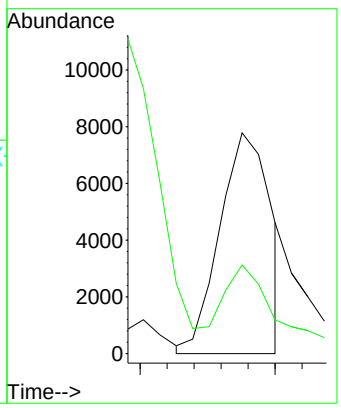
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

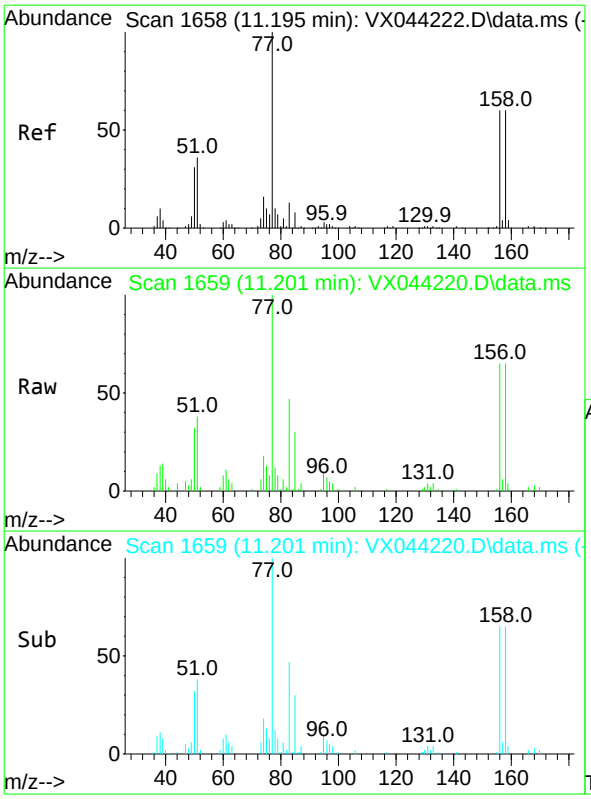


#76
1,2,3-Trichloropropane
Concen: 4.740 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 10236

Ion	Ratio	Lower	Upper
75	100		
77	45.4	20.9	62.7

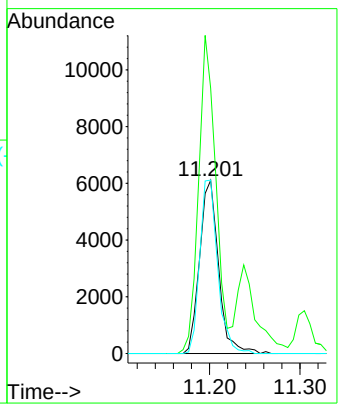




#77
Bromobenzene
Concen: 5.033 ug/l
RT: 11.201 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:156 Resp: 8892

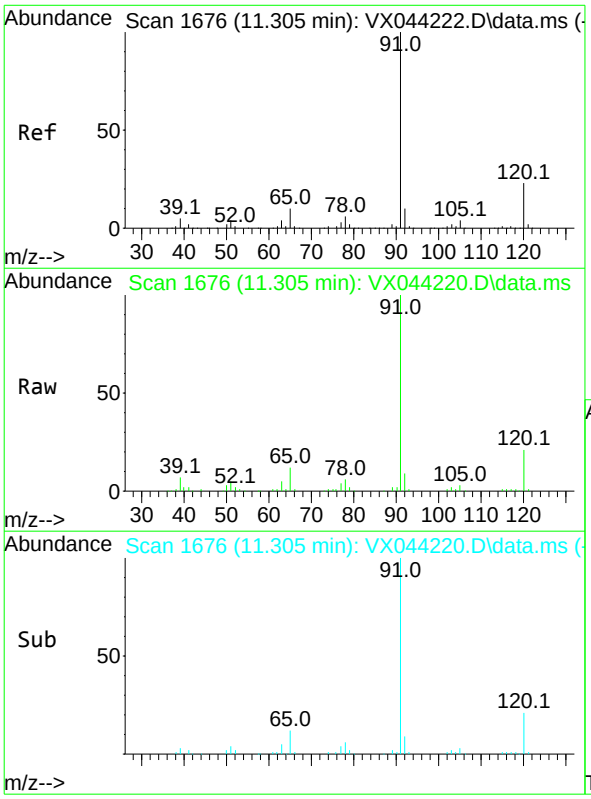
Ion	Ratio	Lower	Upper
156	100		
77	165.4	82.6	247.8
158	94.7	48.8	146.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

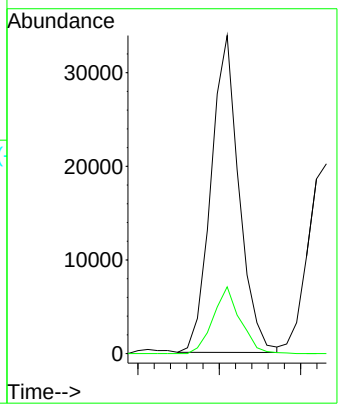
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

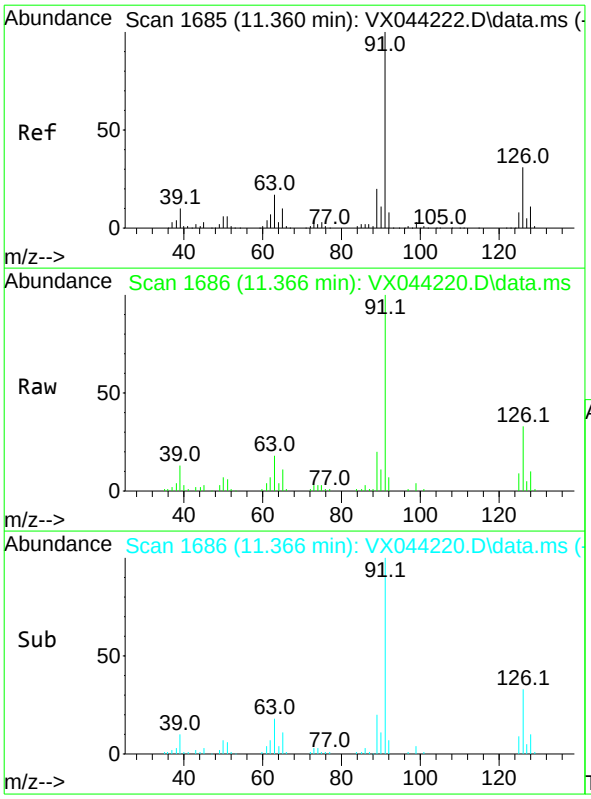


#78
n-propylbenzene
Concen: 5.038 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 40574

Ion	Ratio	Lower	Upper
91	100		
120	20.3	11.0	33.0

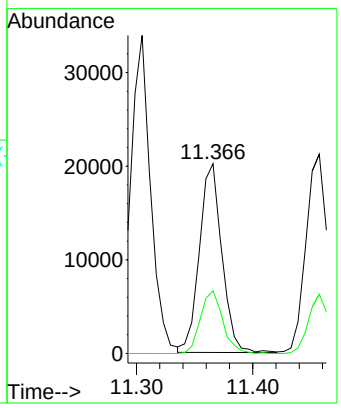




#79
2-Chlorotoluene
Concen: 5.203 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 27096

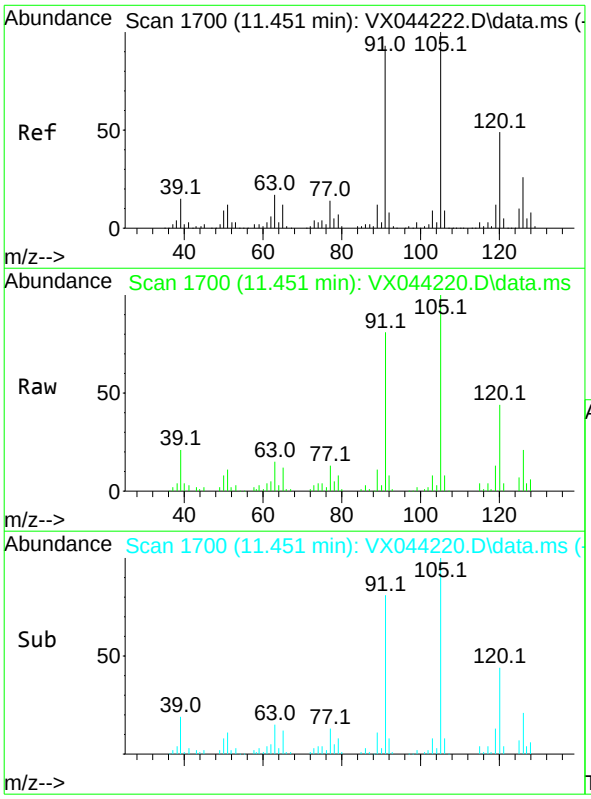
Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

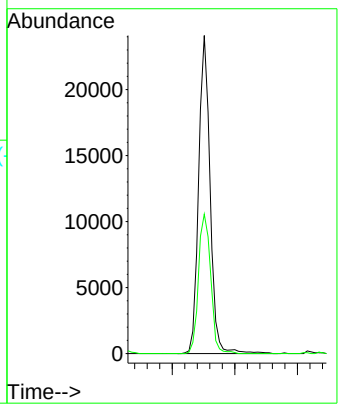
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

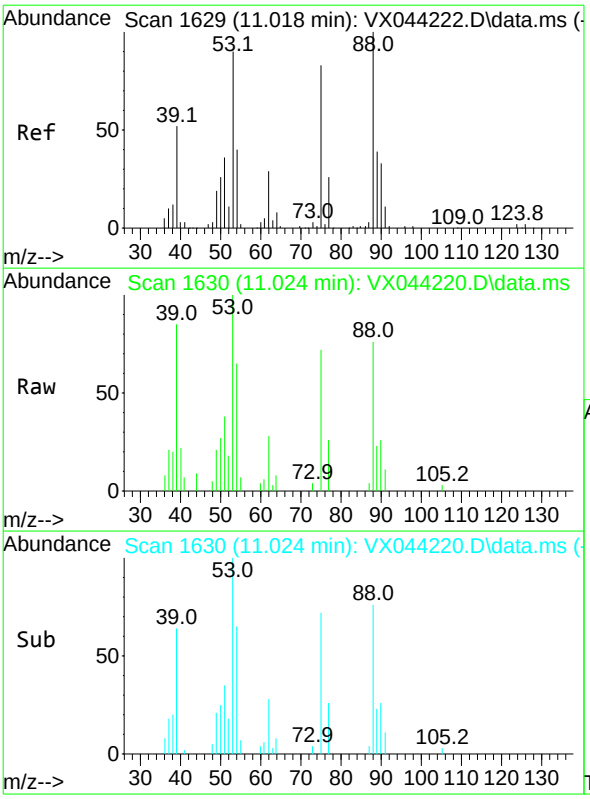


#80
1,3,5-Trimethylbenzene
Concen: 5.075 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:105 Resp: 30665

Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.8	71.4

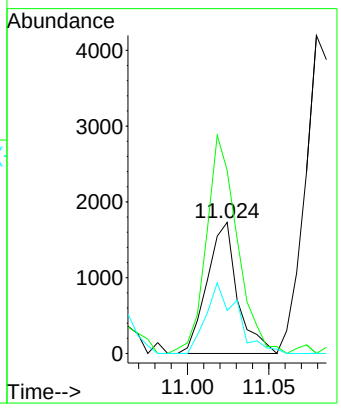




#81
trans-1,4-Dichloro-2-butene
Concen: 8.273 ug/l
RT: 11.024 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 2249

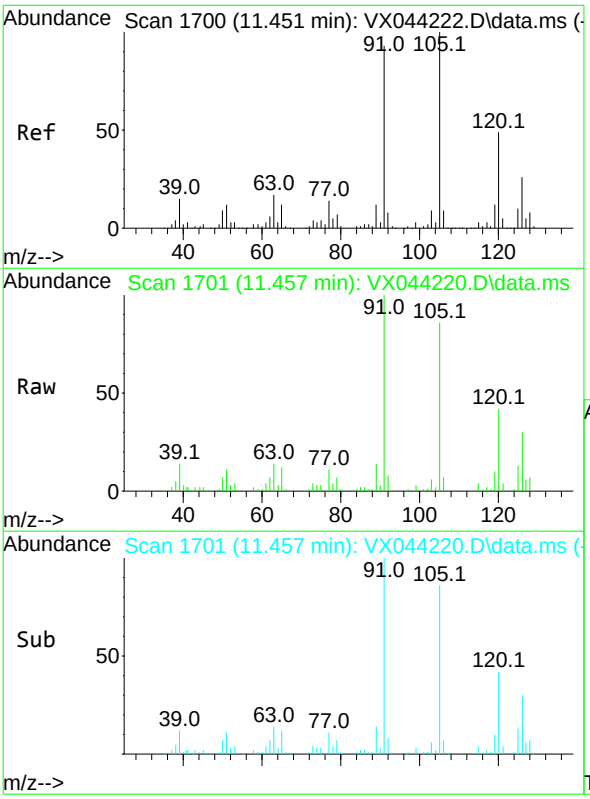
Ion	Ratio	Lower	Upper
75	100		
53	168.9	93.6	140.4#
89	55.5	37.3	55.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

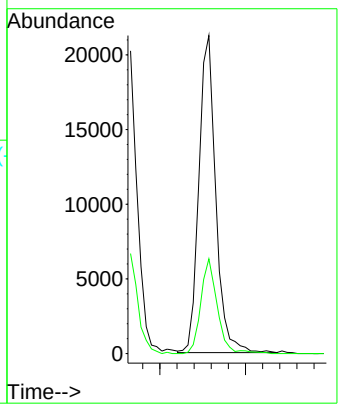
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

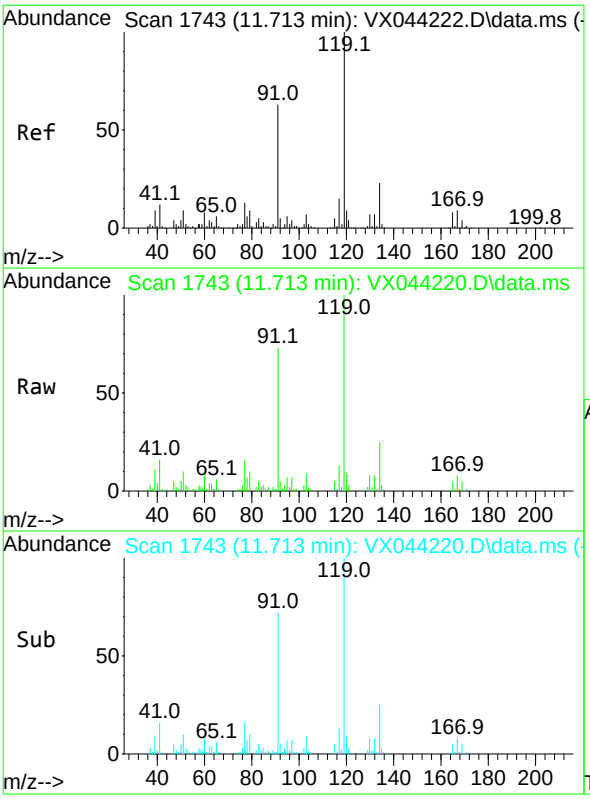


#82
4-Chlorotoluene
Concen: 5.035 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 29039

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.5	43.5

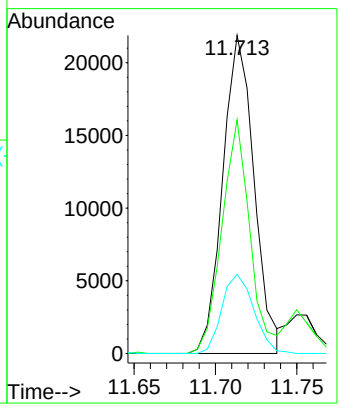




#83
tert-Butylbenzene
Concen: 4.904 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:119 Resp: 29283

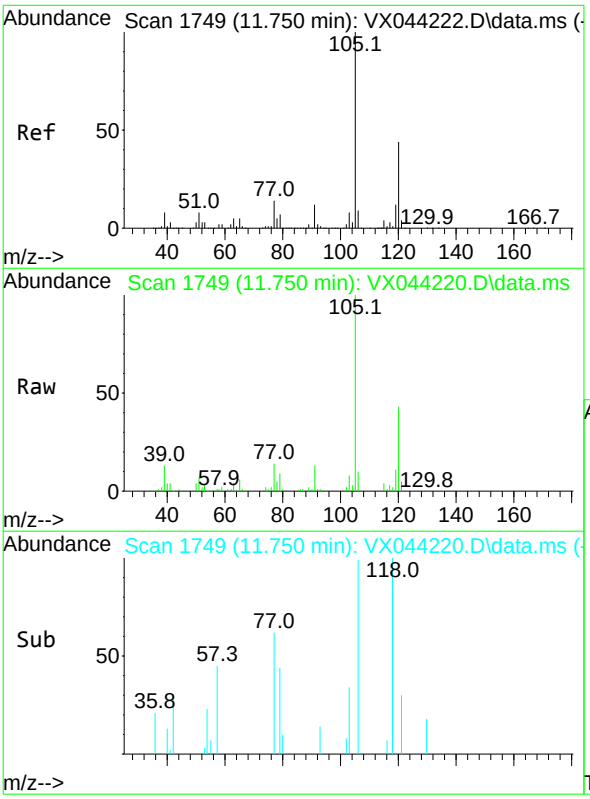
Ion	Ratio	Lower	Upper
119	100		
91	65.9	30.9	92.5
134	25.3	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

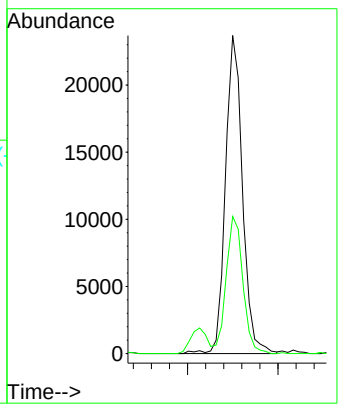
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

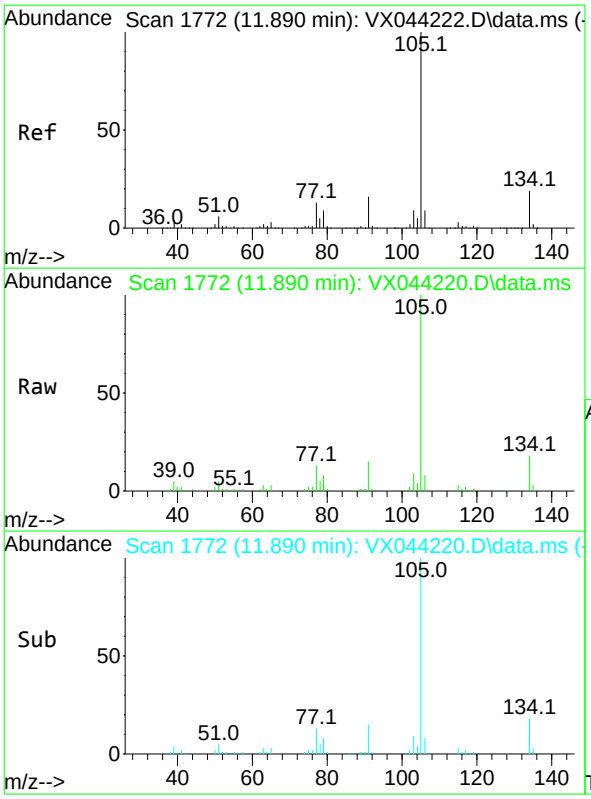


#84
1,2,4-Trimethylbenzene
Concen: 5.219 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:105 Resp: 30970

Ion	Ratio	Lower	Upper
105	100		
120	42.6	21.7	65.1





#85
sec-Butylbenzene
Concen: 4.921 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

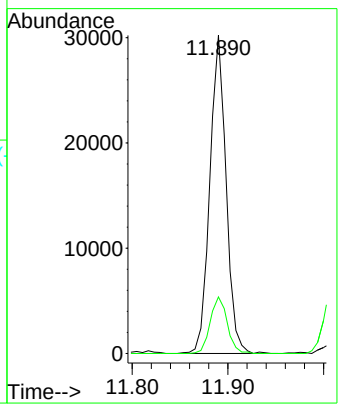
Tgt Ion:105 Resp: 35670

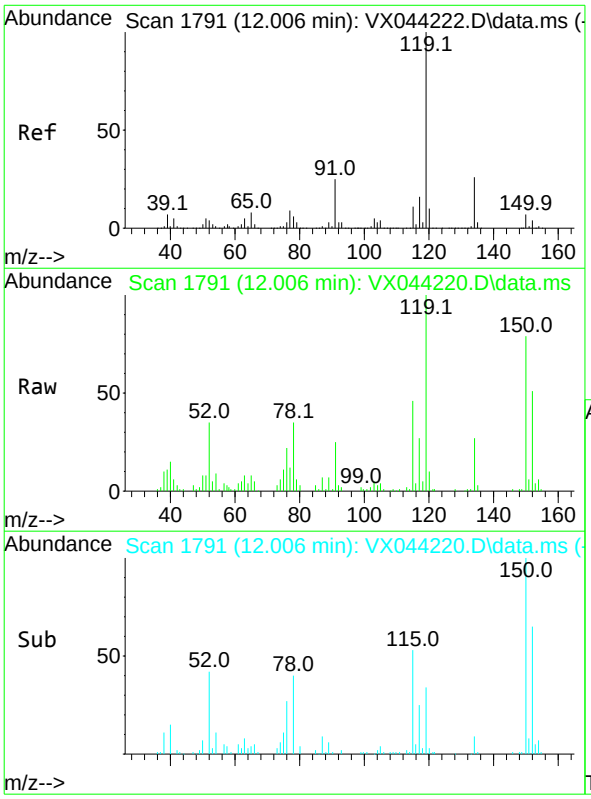
Ion	Ratio	Lower	Upper
105	100		
134	18.6	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

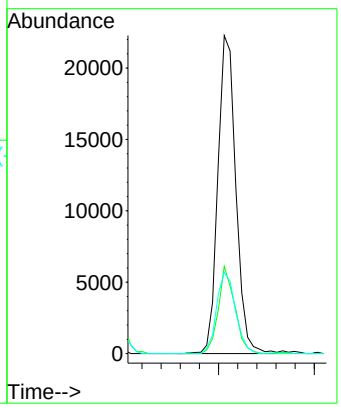


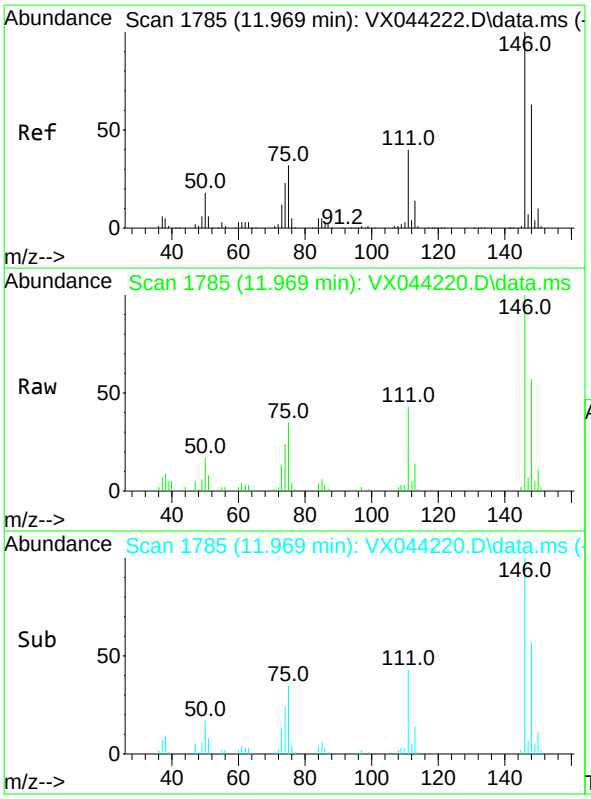


#86
p-Isopropyltoluene
Concen: 4.828 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:119 Resp: 29132

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.8	38.4
91	26.9	13.0	39.0

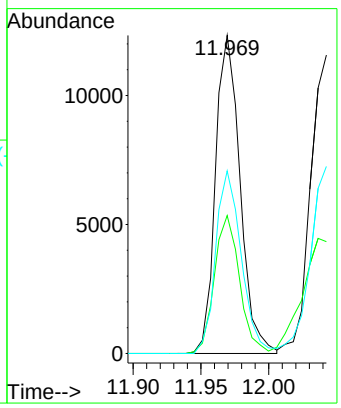




#87
1,3-Dichlorobenzene
Concen: 5.039 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:146 Resp: 15553

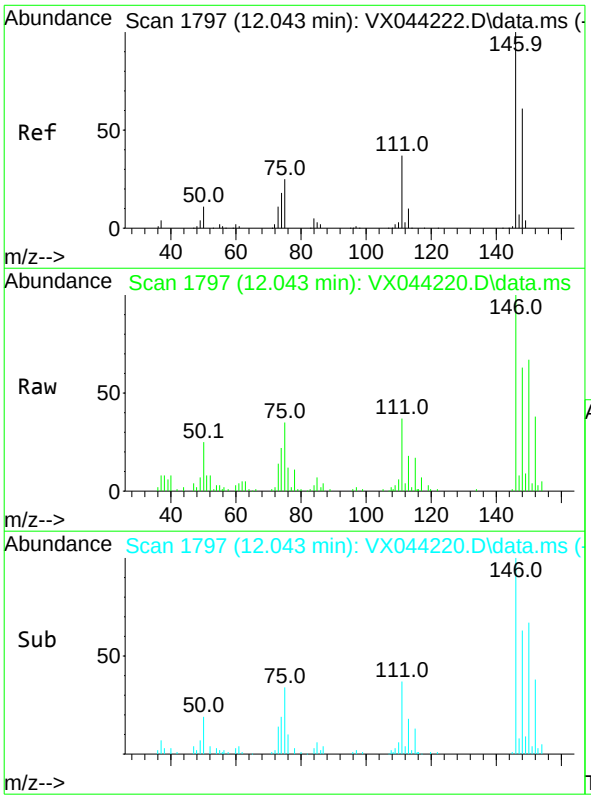
Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.4	64.2
148	60.1	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

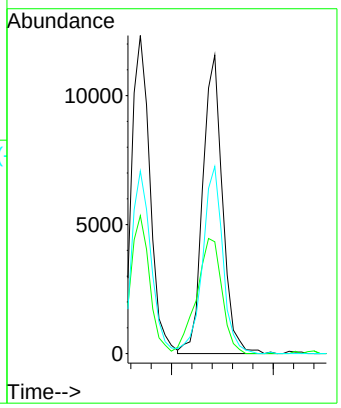
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

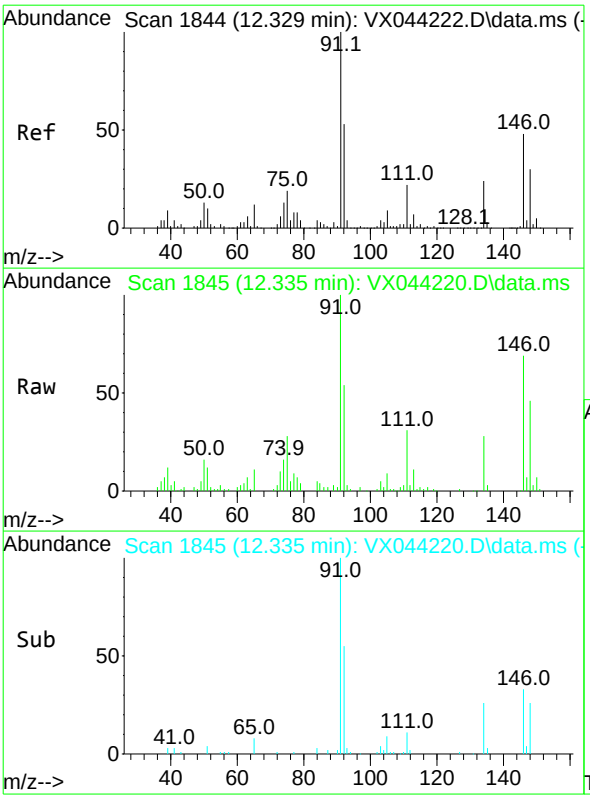


#88
1,4-Dichlorobenzene
Concen: 4.920 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:146 Resp: 15609

Ion	Ratio	Lower	Upper
146	100		
111	49.5	21.0	63.0
148	64.1	32.3	96.8

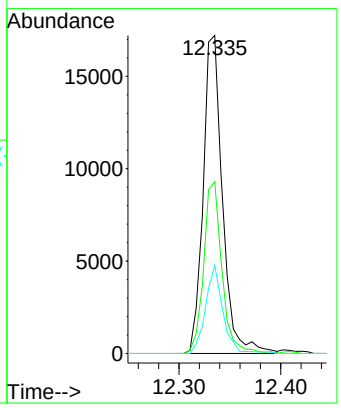




#89
n-Butylbenzene
Concen: 4.478 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 22719

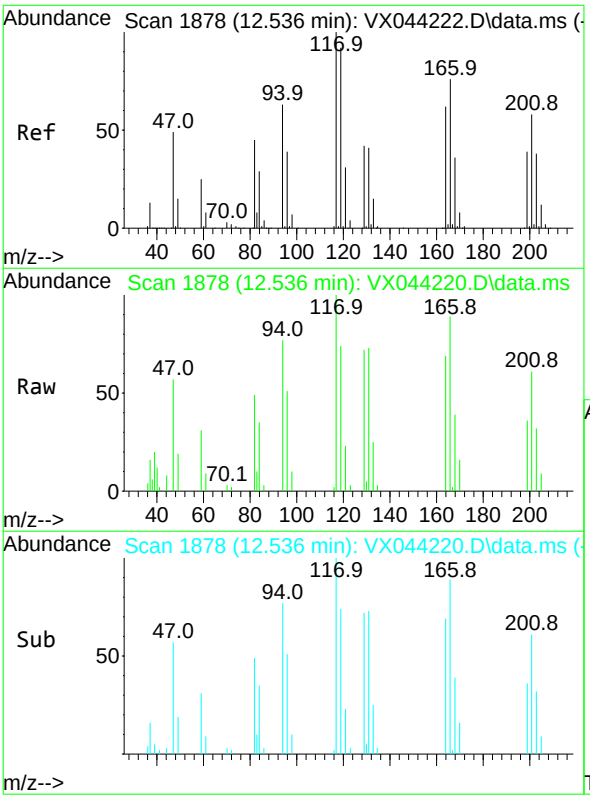
Ion	Ratio	Lower	Upper
91	100		
92	51.1	26.6	79.7
134	24.9	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

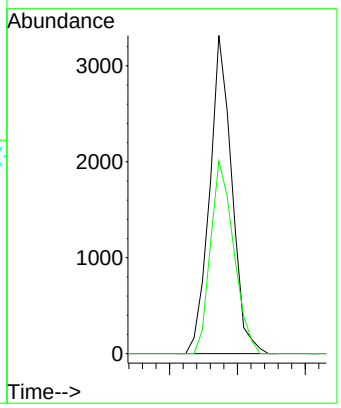
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

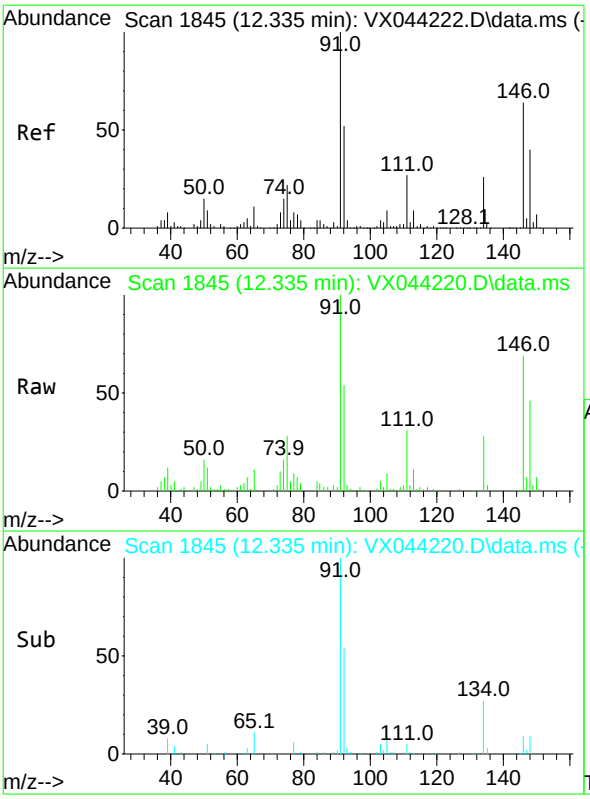


#90
Hexachloroethane
Concen: 4.275 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:117 Resp: 3765

Ion	Ratio	Lower	Upper
117	100		
201	63.5	31.4	94.2

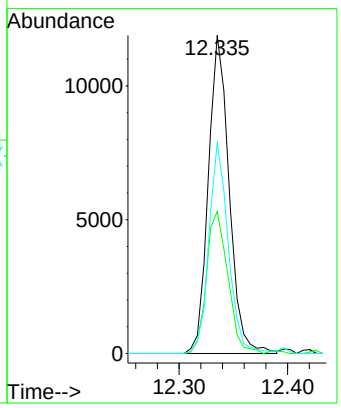




#91
1,2-Dichlorobenzene
Concen: 4.949 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:146 Resp: 15858

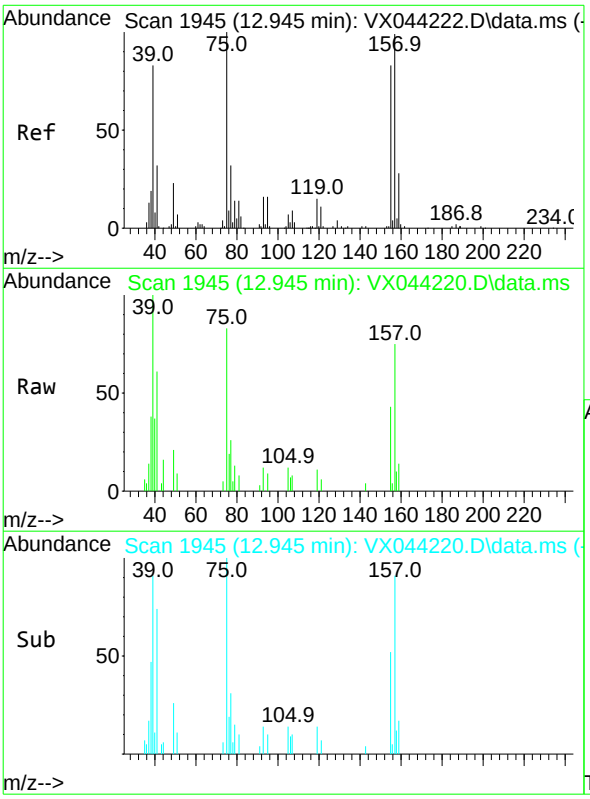
Ion	Ratio	Lower	Upper
146	100		
111	45.8	21.4	64.3
148	62.1	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

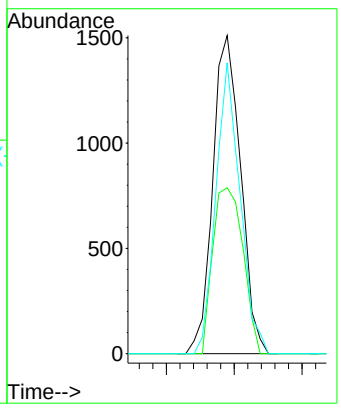
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

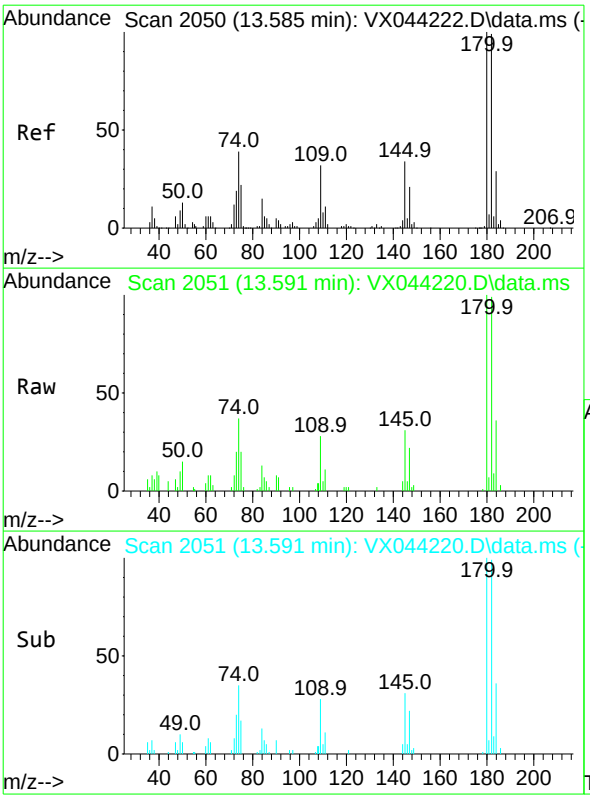


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.385 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 2154

Ion	Ratio	Lower	Upper
75	100		
155	56.5	38.1	114.3
157	79.4	47.2	141.6

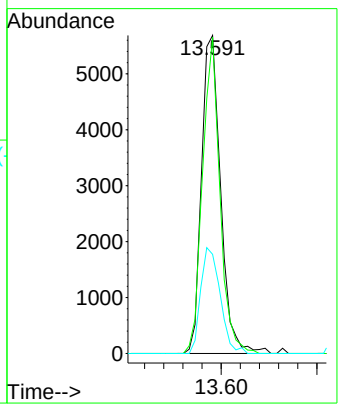




#93
1,2,4-Trichlorobenzene
Concen: 4.478 ug/l
RT: 13.591 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:180 Resp: 7867

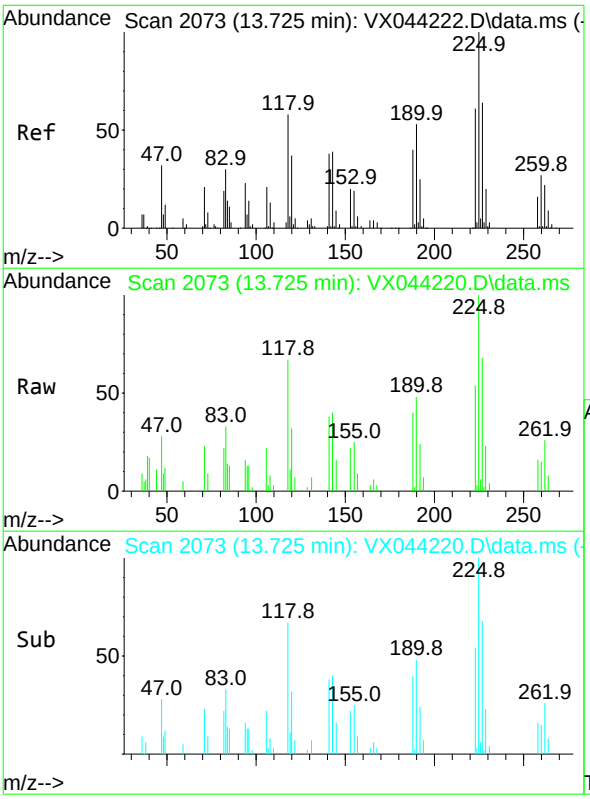
Ion	Ratio	Lower	Upper
180	100		
182	90.8	48.0	144.2
145	33.9	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

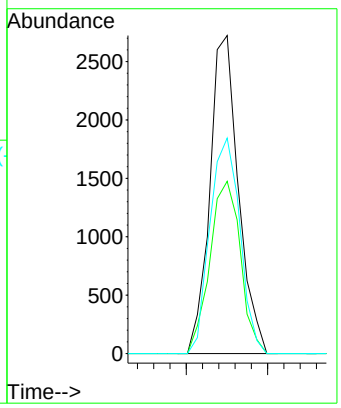
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

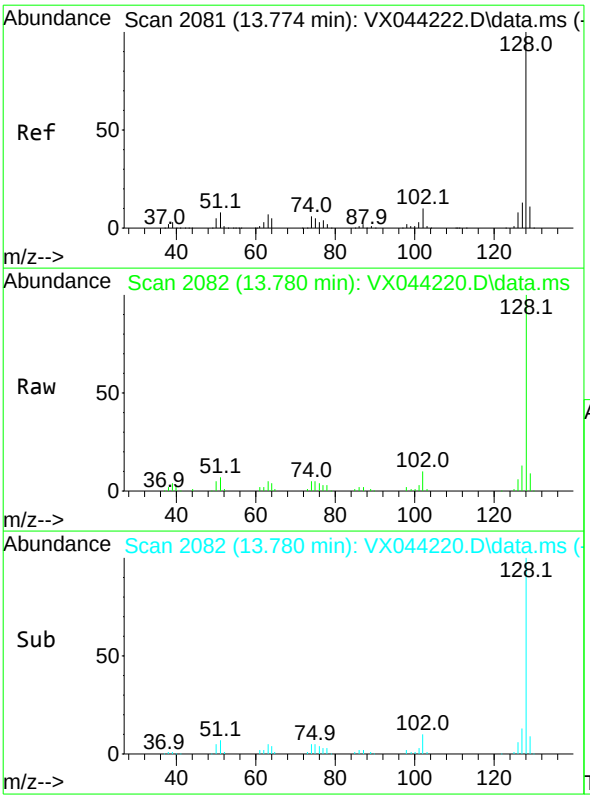


#94
Hexachlorobutadiene
Concen: 4.700 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:225 Resp: 3321

Ion	Ratio	Lower	Upper
225	100		
223	57.9	30.8	92.4
227	71.2	32.1	96.3

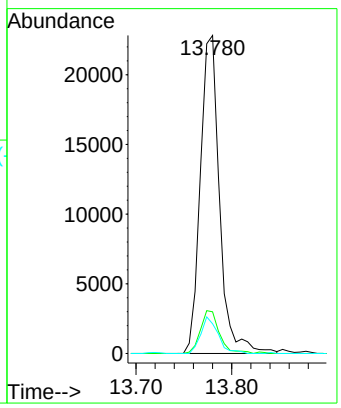




#95
Naphthalene
Concen: 4.643 ug/l
RT: 13.780 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:128 Resp: 31842

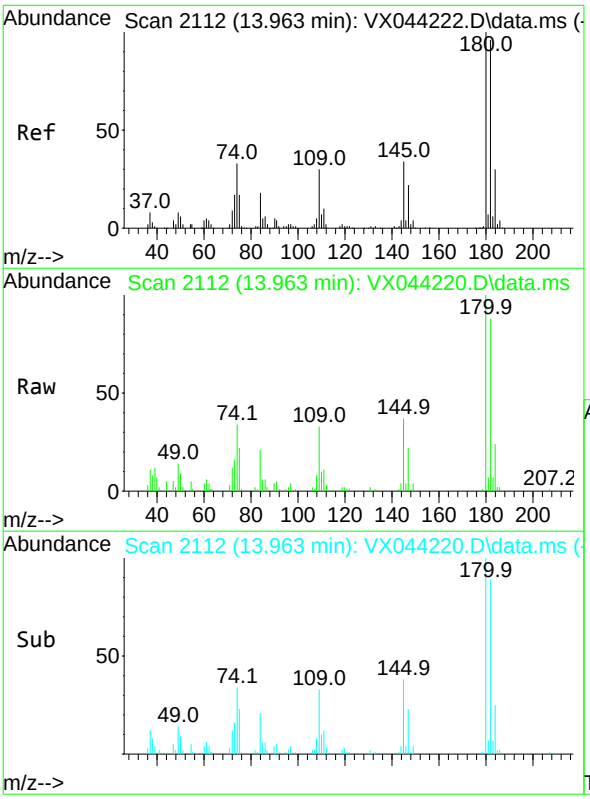
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	10.3	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

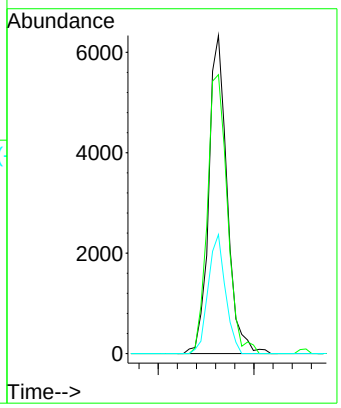
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 4.520 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:180 Resp: 8422

Ion	Ratio	Lower	Upper
180	100		
182	95.3	48.0	144.0
145	35.2	17.7	53.1



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	134436	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	254199	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	218148	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	98180	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	41821	17.743	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	35.480%#		
35) Dibromofluoromethane	5.391	113	30304	17.213	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	34.420%#		
50) Toluene-d8	8.647	98	102660	17.284	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	34.560%#		
62) 4-Bromofluorobenzene	11.079	95	35645	17.175	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	34.340%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	38748	18.640	ug/l	90
3) Chloromethane	1.294	50	39546	19.894	ug/l	100
4) Vinyl Chloride	1.374	62	42048	20.304	ug/l	97
5) Bromomethane	1.593	94	27604	18.789	ug/l	94
6) Chloroethane	1.666	64	27673	21.460	ug/l	94
7) Trichlorofluoromethane	1.867	101	81398	20.077	ug/l	99
8) Diethyl Ether	2.136	74	25884	18.704	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	31846	19.412	ug/l	99
10) Methyl Iodide	2.441	142	42786	19.788	ug/l	99
11) Tert butyl alcohol	3.001	59	29819m	89.904	ug/l	
12) 1,1-Dichloroethene	2.306	96	29241	19.405	ug/l	92
13) Acrolein	2.239	56	43909	91.311	ug/l	97
14) Allyl chloride	2.654	41	47218	18.813	ug/l	98
15) Acrylonitrile	3.068	53	89249	96.988	ug/l	99
16) Acetone	2.392	43	88985	92.601	ug/l	95
17) Carbon Disulfide	2.502	76	50399	17.595	ug/l	98
18) Methyl Acetate	2.709	43	47509	19.175	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	114371	19.450	ug/l	100
20) Methylene Chloride	2.782	84	35820	19.846	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	31036	19.380	ug/l	97
22) Diisopropyl ether	3.764	45	112511	19.907	ug/l	94
23) Vinyl Acetate	3.721	43	465716	101.354	ug/l	100
24) 1,1-Dichloroethane	3.605	63	62059	19.699	ug/l	98
25) 2-Butanone	4.568	43	136992	100.277	ug/l	99
26) 2,2-Dichloropropane	4.471	77	51431	20.095	ug/l #	74
27) cis-1,2-Dichloroethene	4.477	96	39161	19.254	ug/l	99
28) Bromochloromethane	4.891	49	30977	20.052	ug/l	95
29) Tetrahydrofuran	5.013	42	86235	98.343	ug/l	99
30) Chloroform	5.093	83	68410	19.327	ug/l	97
31) Cyclohexane	5.458	56	51773	20.351	ug/l	93
32) 1,1,1-Trichloroethane	5.373	97	57900	19.706	ug/l	99
36) 1,1-Dichloropropene	5.690	75	42878	18.841	ug/l	99
37) Ethyl Acetate	4.727	43	56019	19.913	ug/l	99
38) Carbon Tetrachloride	5.672	117	43901	17.918	ug/l	92
39) Methylcyclohexane	7.379	83	53536	19.678	ug/l	97
40) Benzene	6.031	78	135467	19.606	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	28523	19.095	ug/l		94
42) 1,2-Dichloroethane	6.086	62	55377	19.456	ug/l		98
43) Isopropyl Acetate	6.342	43	84866	19.301	ug/l		100
44) Trichloroethene	7.123	130	32995	19.149	ug/l		96
45) 1,2-Dichloropropane	7.427	63	33585	19.025	ug/l		97
46) Dibromomethane	7.580	93	26293	19.199	ug/l		99
47) Bromodichloromethane	7.818	83	44312	18.735	ug/l		99
48) Methyl methacrylate	7.696	41	40620	19.032	ug/l		98
49) 1,4-Dioxane	7.671	88	14281m	391.518	ug/l		
51) 4-Methyl-2-Pentanone	8.574	43	278267	98.429	ug/l		100
52) Toluene	8.714	92	82934	19.113	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	44614	18.785	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	49596	19.258	ug/l		91
55) 1,1,2-Trichloroethane	9.147	97	34013	19.732	ug/l		98
56) Ethyl methacrylate	9.116	69	52571	19.318	ug/l		99
57) 1,3-Dichloropropane	9.305	76	59489	19.827	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	129900	94.642	ug/l		100
59) 2-Hexanone	9.433	43	207578	101.440	ug/l		99
60) Dibromochloromethane	9.519	129	31066	18.318	ug/l		97
61) 1,2-Dibromoethane	9.610	107	34978	19.935	ug/l		98
64) Tetrachloroethene	9.275	164	27702	19.133	ug/l		97
65) Chlorobenzene	10.079	112	90631	19.389	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.165	131	29132	19.392	ug/l		99
67) Ethyl Benzene	10.195	91	158455	19.619	ug/l		98
68) m/p-Xylenes	10.299	106	116126	39.183	ug/l		98
69) o-Xylene	10.640	106	59787	19.938	ug/l		99
70) Styrene	10.653	104	95883	19.946	ug/l		98
71) Bromoform	10.799	173	16924	18.112	ug/l	#	96
73) Isopropylbenzene	10.963	105	153935	20.481	ug/l		98
74) N-amyl acetate	10.842	43	69643	20.049	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	52312	20.039	ug/l		97
76) 1,2,3-Trichloropropane	11.238	75	43726m	19.627	ug/l		
77) Bromobenzene	11.195	156	34951	19.176	ug/l		98
78) n-propylbenzene	11.305	91	169622	20.419	ug/l		100
79) 2-Chlorotoluene	11.366	91	106310	19.788	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	126626	20.315	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	11784	19.264	ug/l		90
82) 4-Chlorotoluene	11.451	91	118309	19.886	ug/l		100
83) tert-Butylbenzene	11.713	119	121929	19.794	ug/l		95
84) 1,2,4-Trimethylbenzene	11.750	105	125939	20.574	ug/l		99
85) sec-Butylbenzene	11.890	105	150795	20.165	ug/l		99
86) p-Isopropyltoluene	12.006	119	127790	20.532	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	64399	20.228	ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	64106	19.588	ug/l		99
89) n-Butylbenzene	12.329	91	104410	19.950	ug/l		99
90) Hexachloroethane	12.536	117	15939	17.543	ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	65511	19.817	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	9468	18.683	ug/l		97
93) 1,2,4-Trichlorobenzene	13.591	180	35001	19.313	ug/l		99
94) Hexachlorobutadiene	13.725	225	14415	19.774	ug/l		97
95) Naphthalene	13.774	128	142515	20.146	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	38639	20.101	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

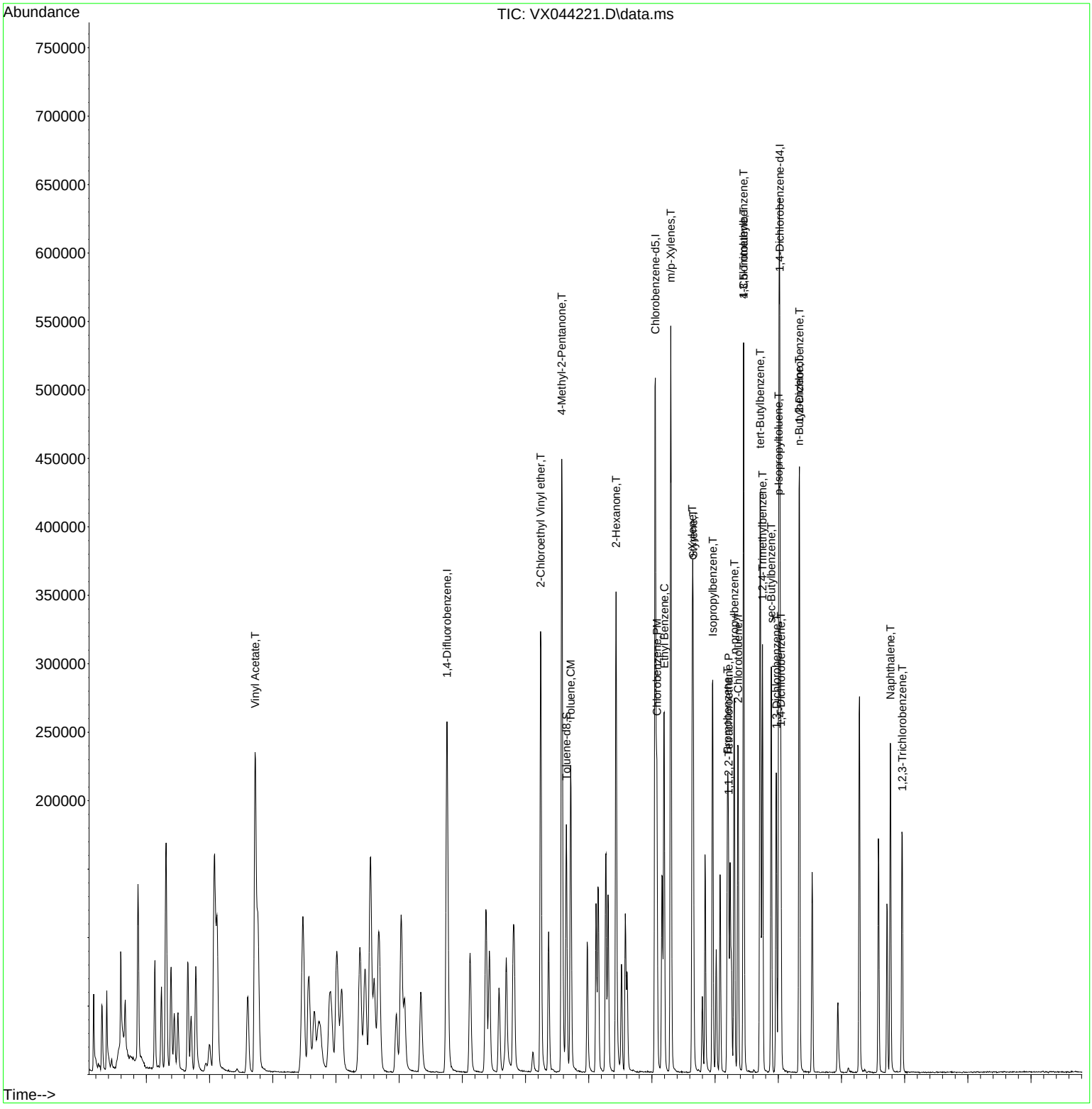
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

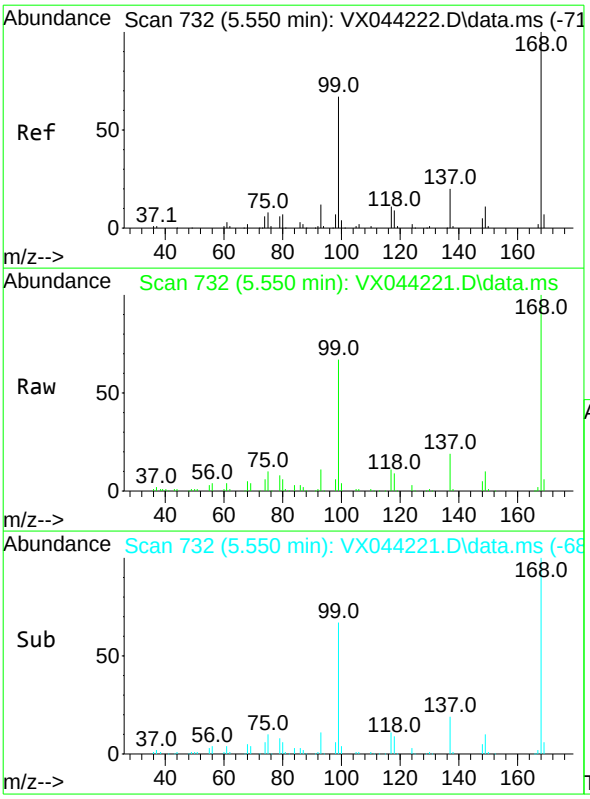
Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

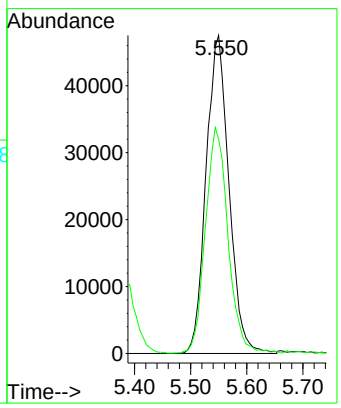




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:168 Resp: 134436

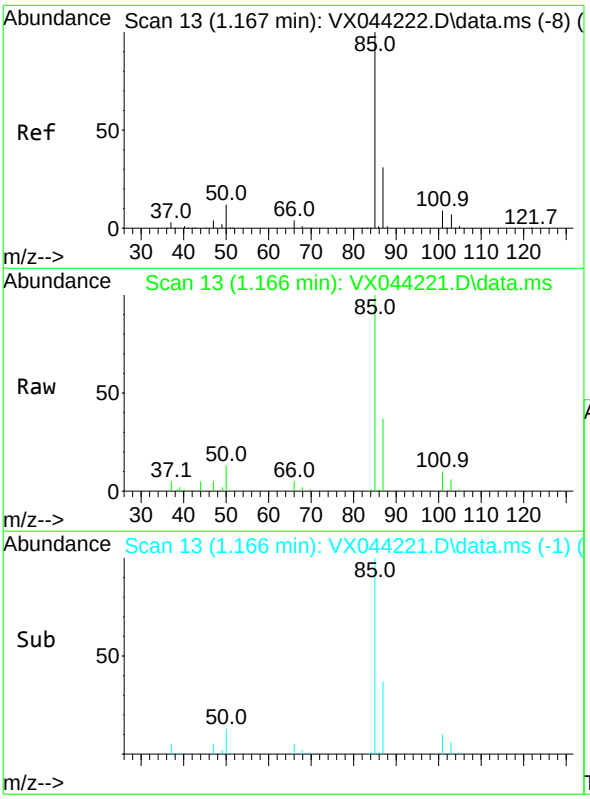
Ion	Ratio	Lower	Upper
168	100		
99	67.2	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

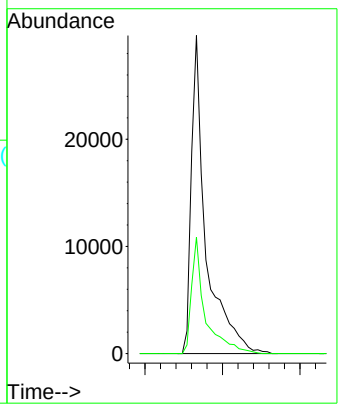
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

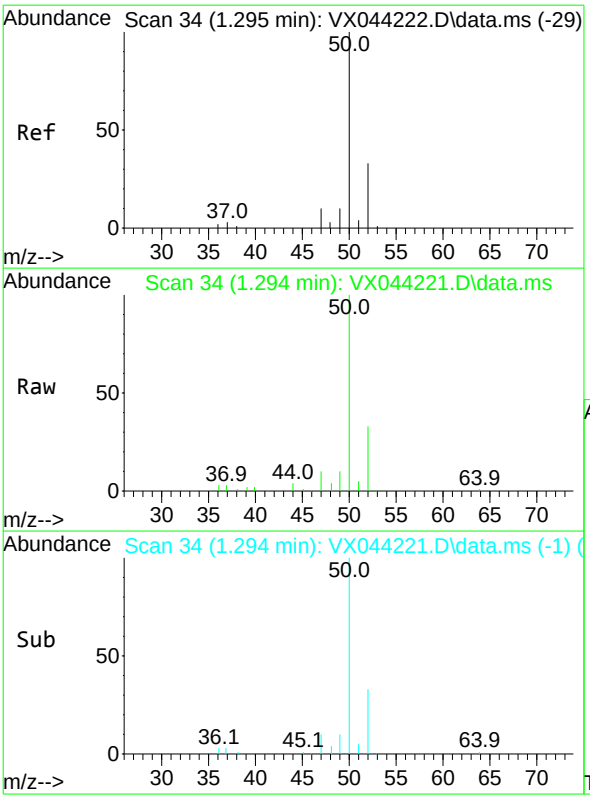


#2
Dichlorodifluoromethane
Concen: 18.640 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 85 Resp: 38748

Ion	Ratio	Lower	Upper
85	100		
87	36.6	15.4	46.4

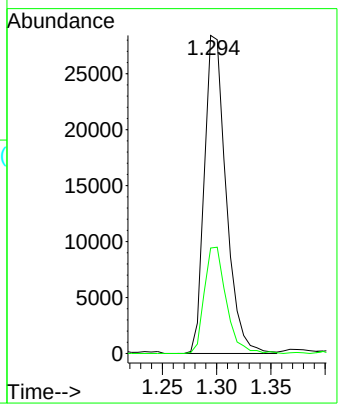




#3
Chloromethane
Concen: 19.894 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 50 Resp: 39546

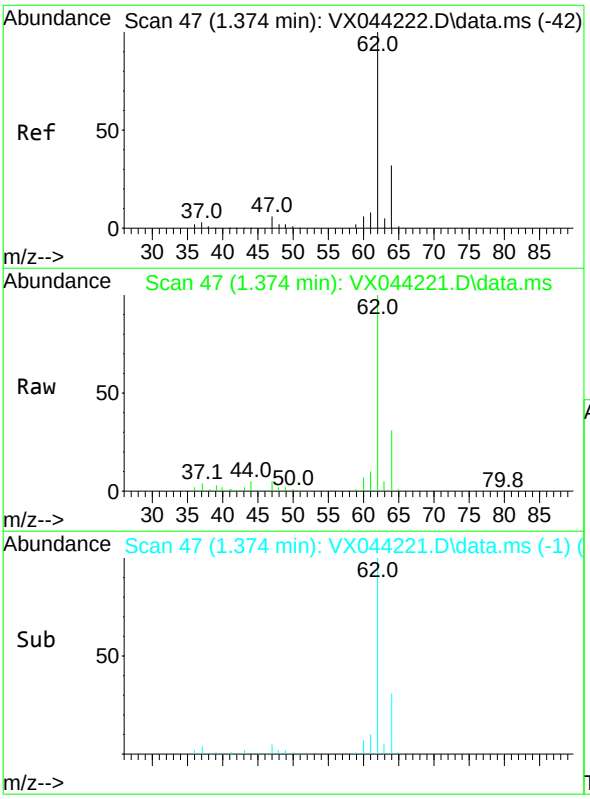
Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

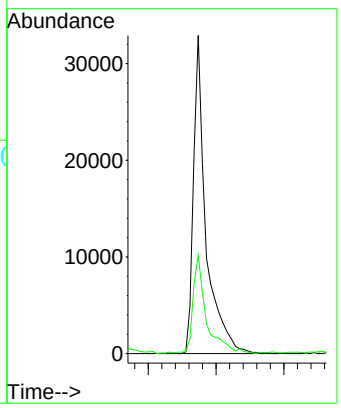
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

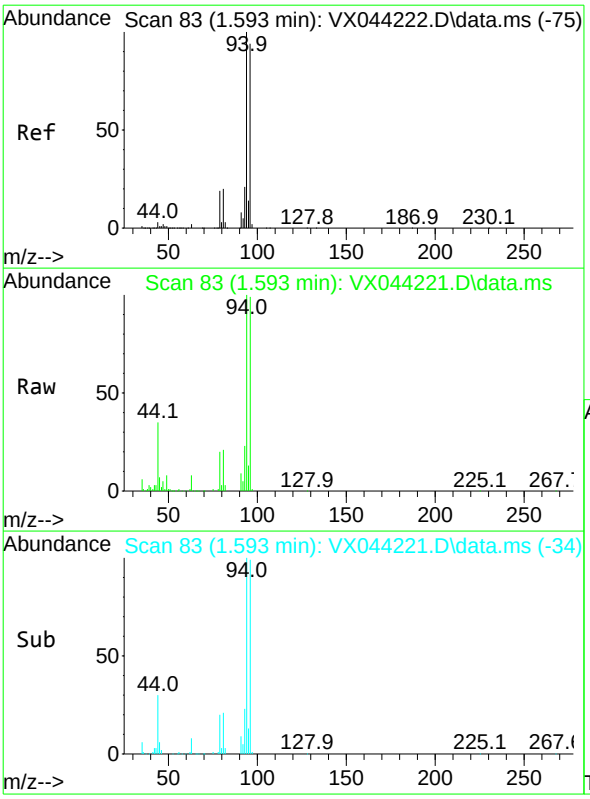


#4
Vinyl Chloride
Concen: 20.304 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 62 Resp: 42048

Ion	Ratio	Lower	Upper
62	100		
64	30.6	25.7	38.5

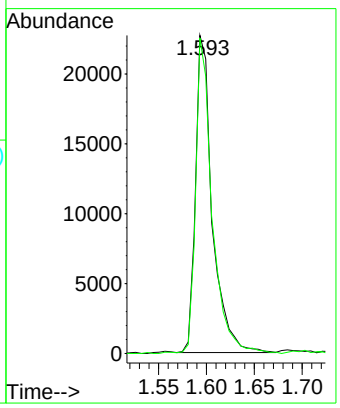




#5
Bromomethane
Concen: 18.789 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 94 Resp: 27604

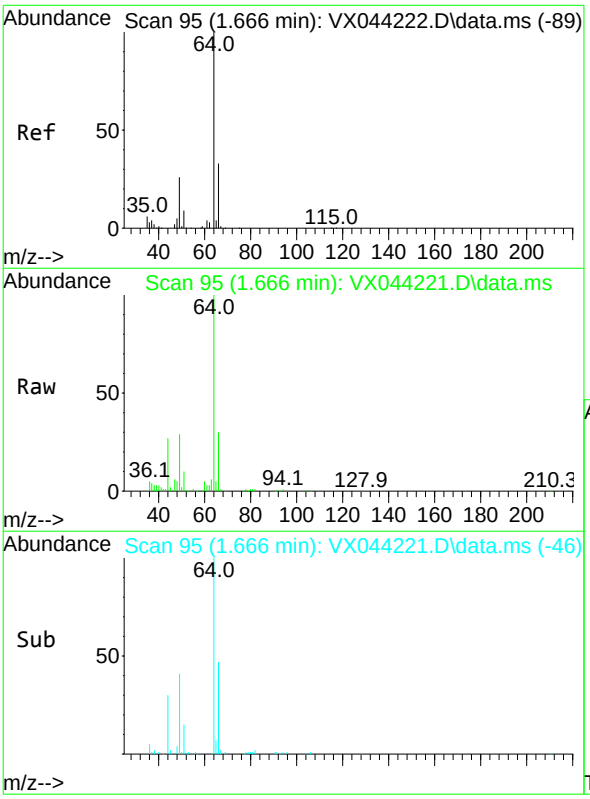
Ion	Ratio	Lower	Upper
94	100		
96	99.2	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

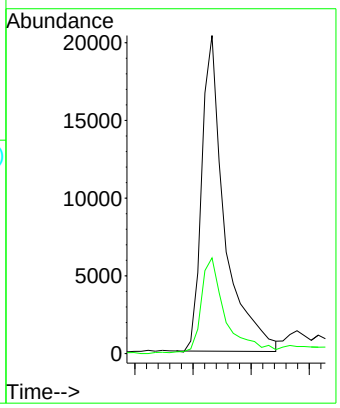
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

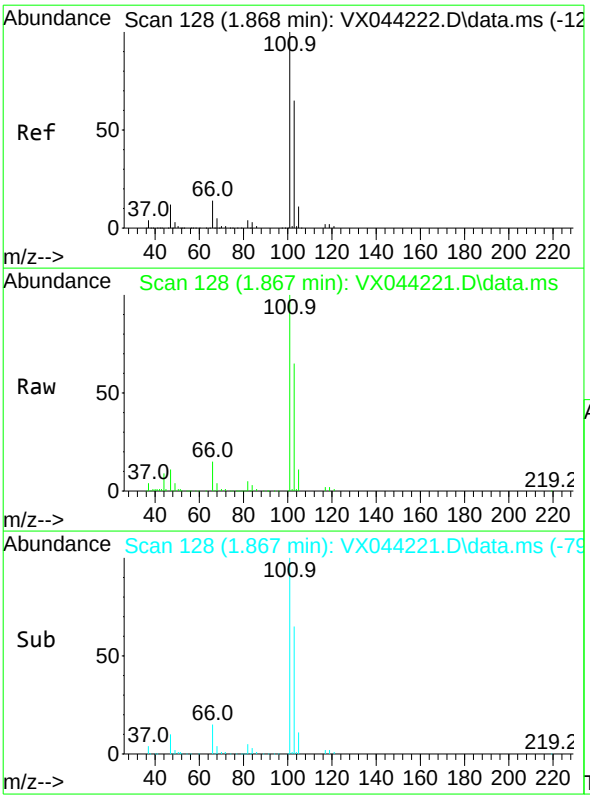


#6
Chloroethane
Concen: 21.460 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 64 Resp: 27673

Ion	Ratio	Lower	Upper
64	100		
66	29.8	26.6	39.8

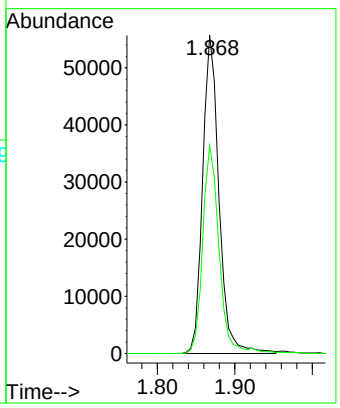




#7
Trichlorofluoromethane
Concen: 20.077 ug/l
RT: 1.867 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:101 Resp: 81398

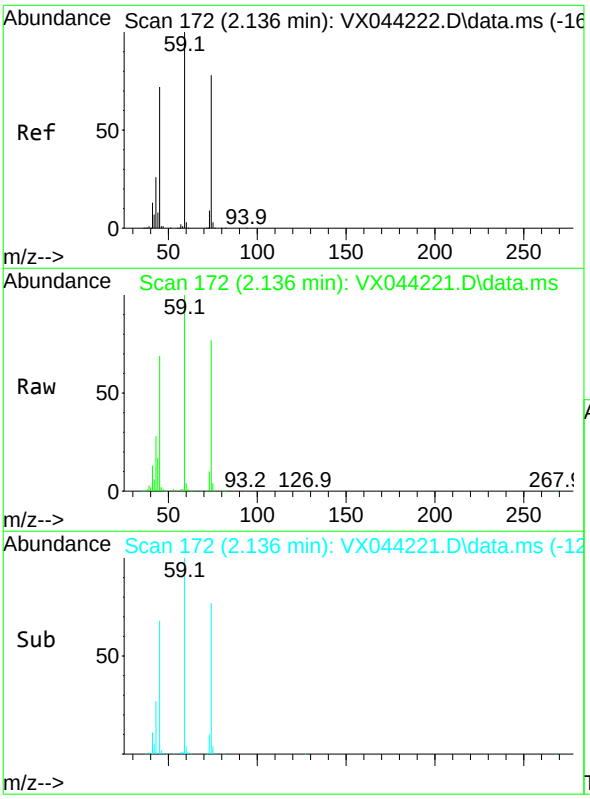
Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

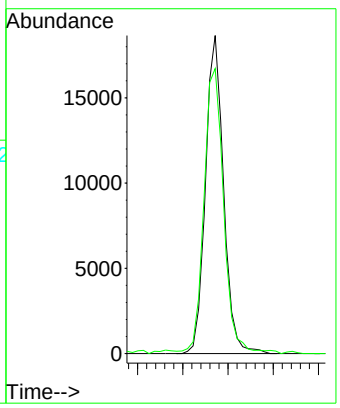
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

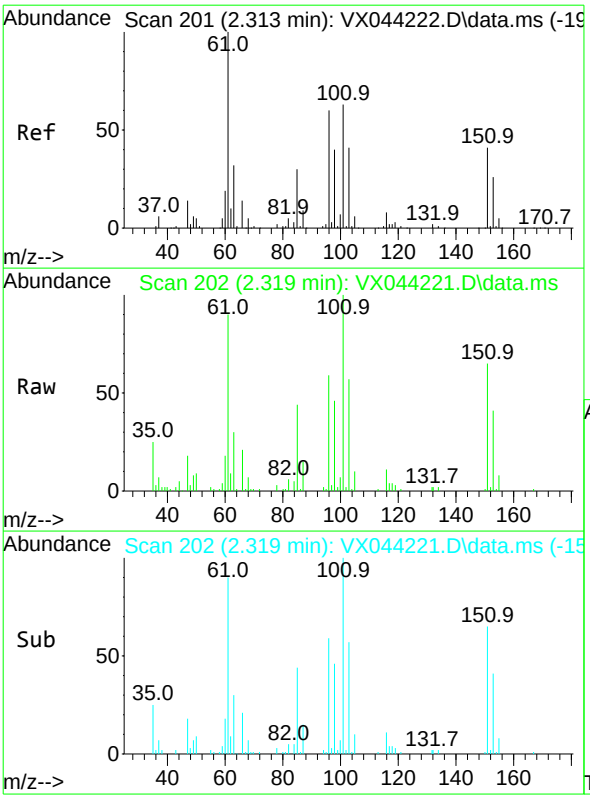


#8
Diethyl Ether
Concen: 18.704 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 74 Resp: 25884

Ion	Ratio	Lower	Upper
74	100		
45	97.8	48.4	145.0

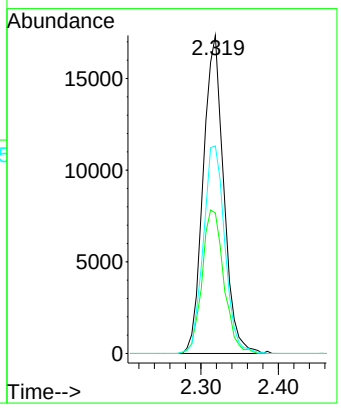




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.412 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:101 Resp: 31846

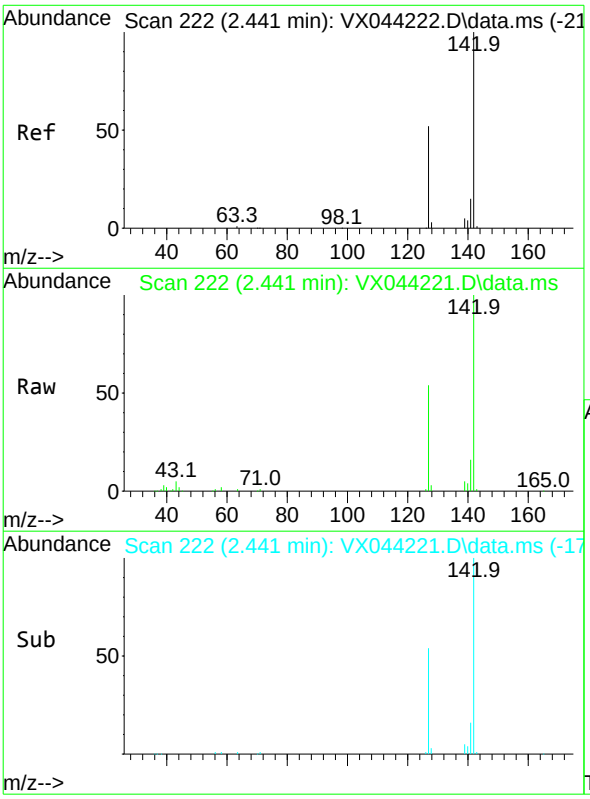
Ion	Ratio	Lower	Upper
101	100		
85	48.0	38.5	57.7
151	68.6	55.8	83.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

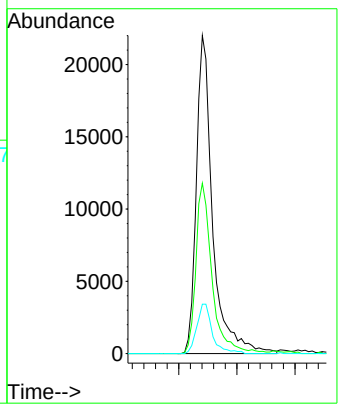
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

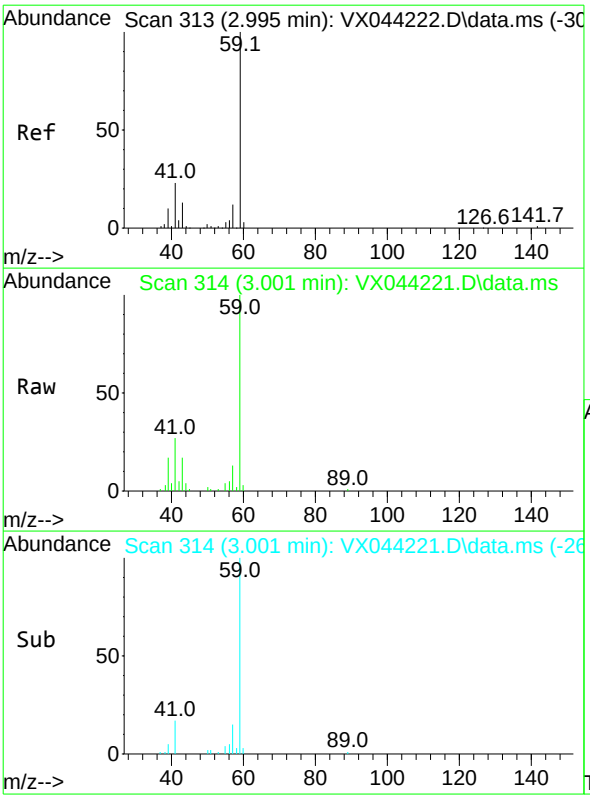


#10
Methyl Iodide
Concen: 19.788 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:142 Resp: 42786

Ion	Ratio	Lower	Upper
142	100		
127	52.9	41.8	62.8
141	14.8	11.5	17.3

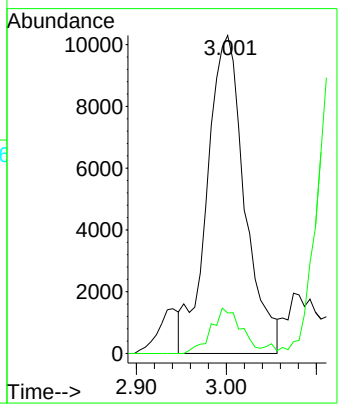




#11
Tert butyl alcohol
Concen: 89.904 ug/l m
RT: 3.001 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 59 Resp: 29819

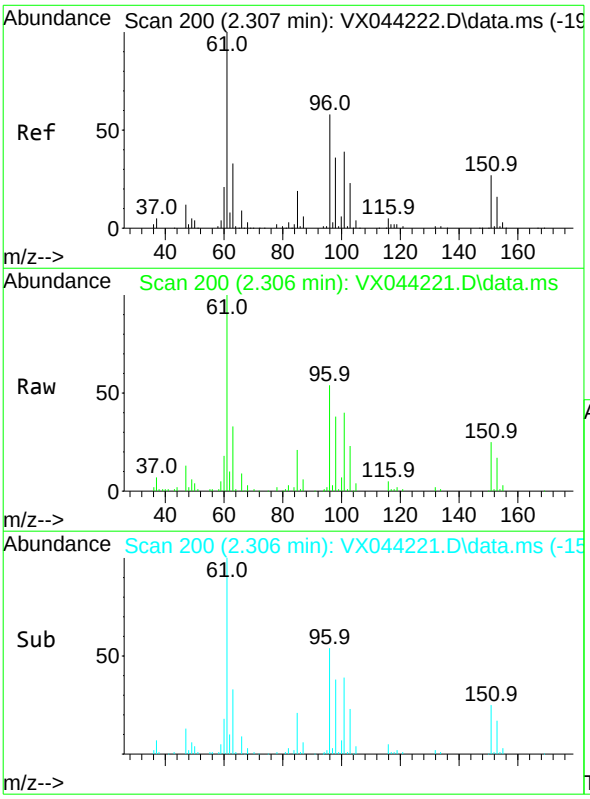
Ion	Ratio	Lower	Upper
59	100		
57	11.5	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

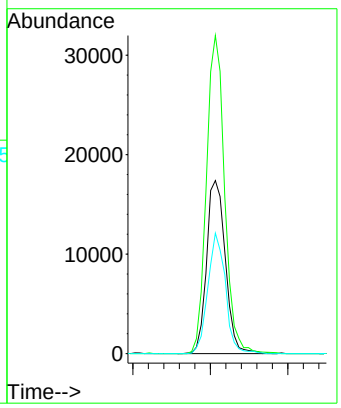
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

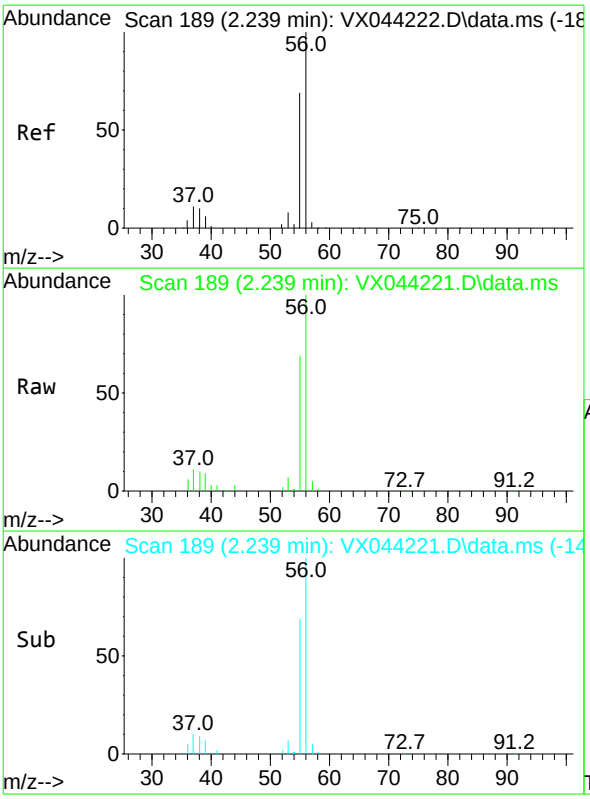


#12
1,1-Dichloroethene
Concen: 19.405 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 96 Resp: 29241

Ion	Ratio	Lower	Upper
96	100		
61	183.9	138.0	207.0
98	69.6	50.0	75.0

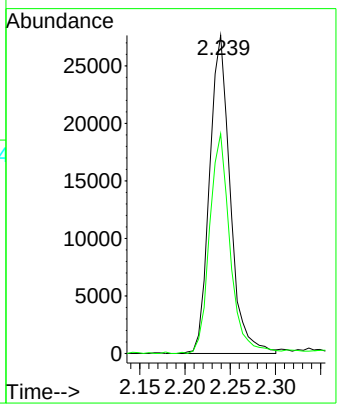




#13
Acrolein
Concen: 91.311 ug/l
RT: 2.239 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 56 Resp: 43909

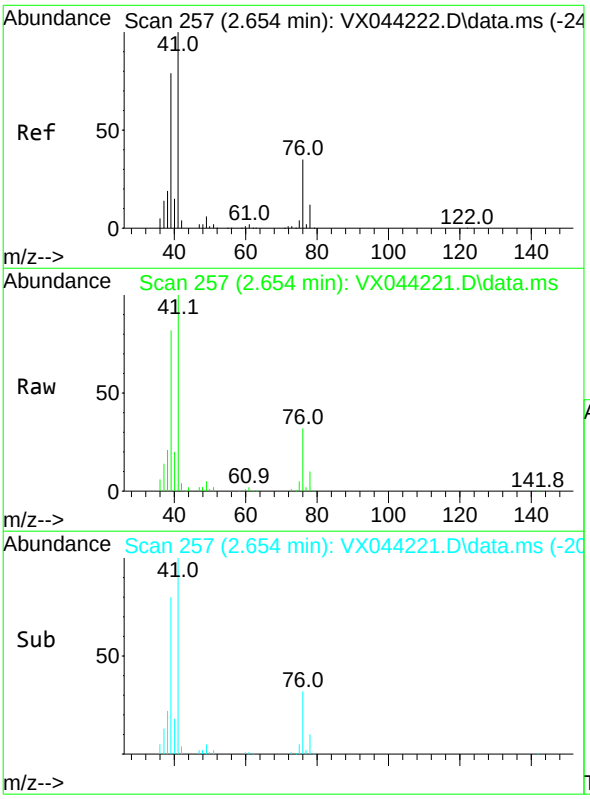
Ion	Ratio	Lower	Upper
56	100		
55	68.6	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

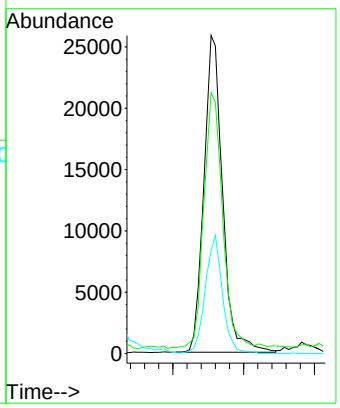
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

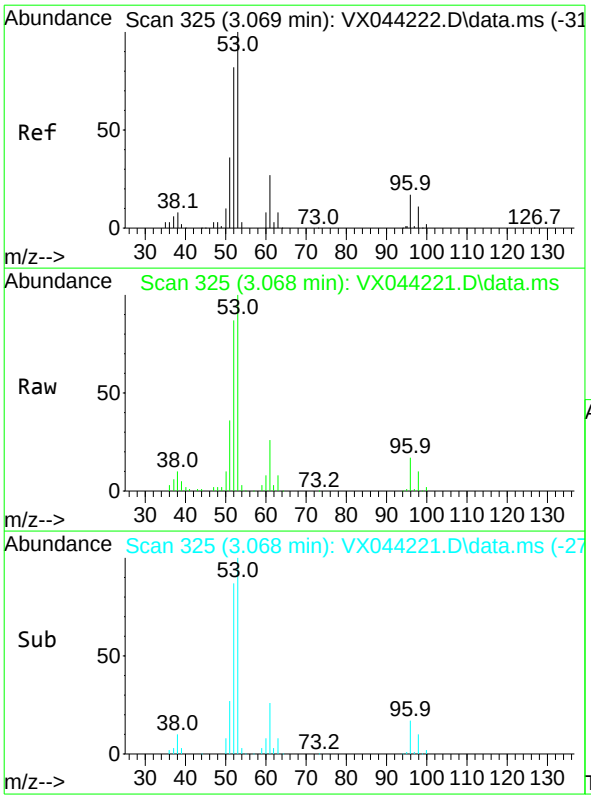


#14
Allyl chloride
Concen: 18.813 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 41 Resp: 47218

Ion	Ratio	Lower	Upper
41	100		
39	80.4	61.9	92.9
76	34.5	27.4	41.2

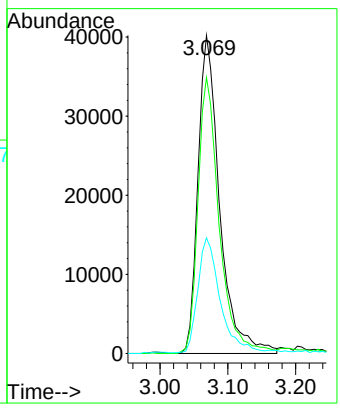




#15
Acrylonitrile
Concen: 96.988 ug/l
RT: 3.068 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 53 Resp: 89249

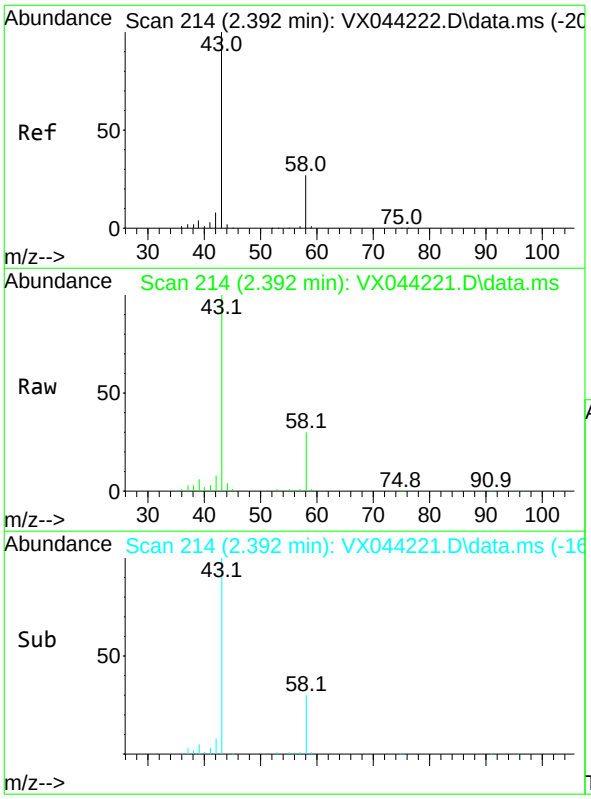
Ion	Ratio	Lower	Upper
53	100		
52	85.1	67.4	101.0
51	37.1	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

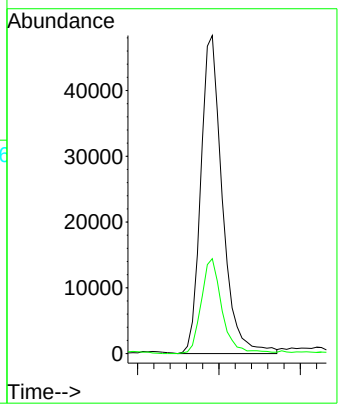
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

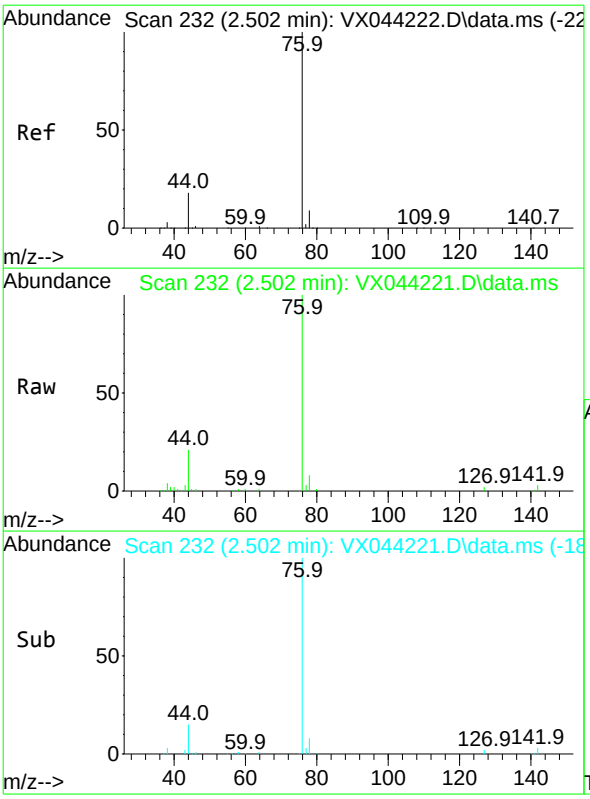


#16
Acetone
Concen: 92.601 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 88985

Ion	Ratio	Lower	Upper
43	100		
58	29.8	21.6	32.4

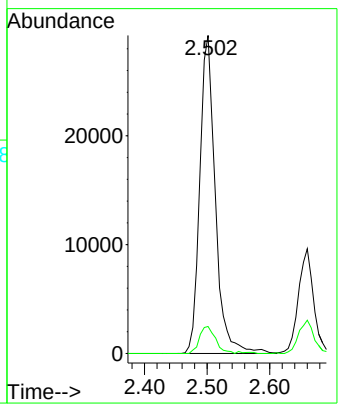




#17
Carbon Disulfide
Concen: 17.595 ug/l
RT: 2.502 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 76 Resp: 50399

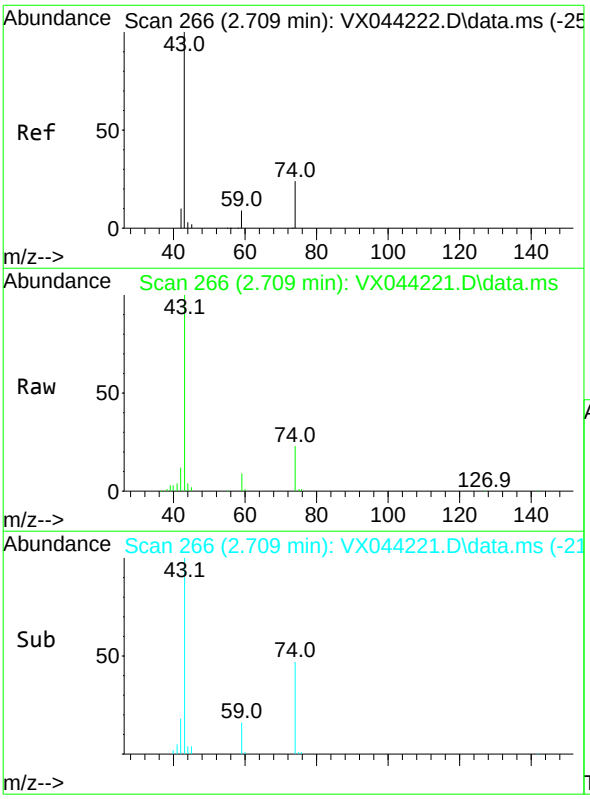
Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

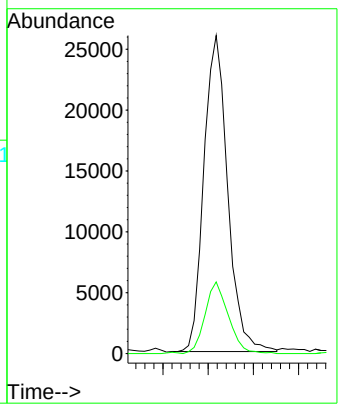
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

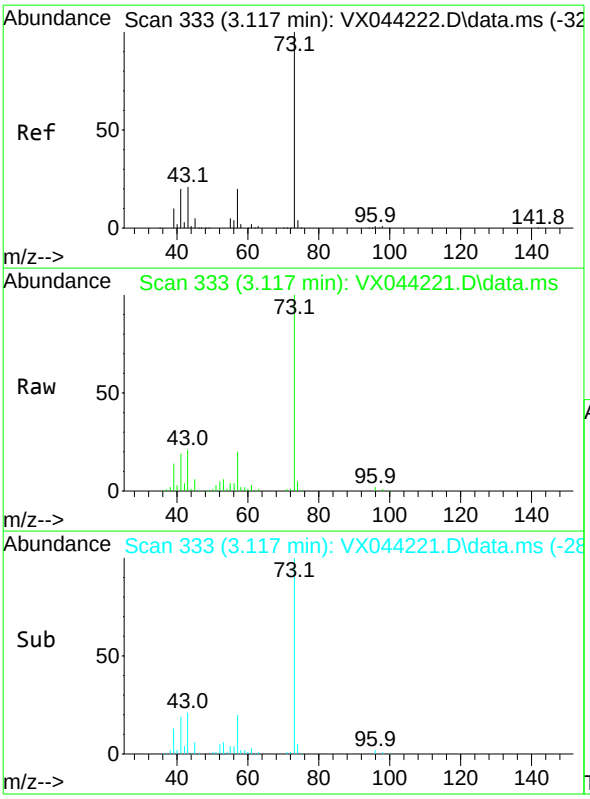


#18
Methyl Acetate
Concen: 19.175 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 47509

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.7	26.5

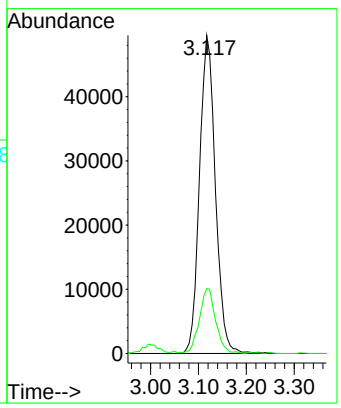




#19
Methyl tert-butyl Ether
Concen: 19.450 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 73 Resp: 114371

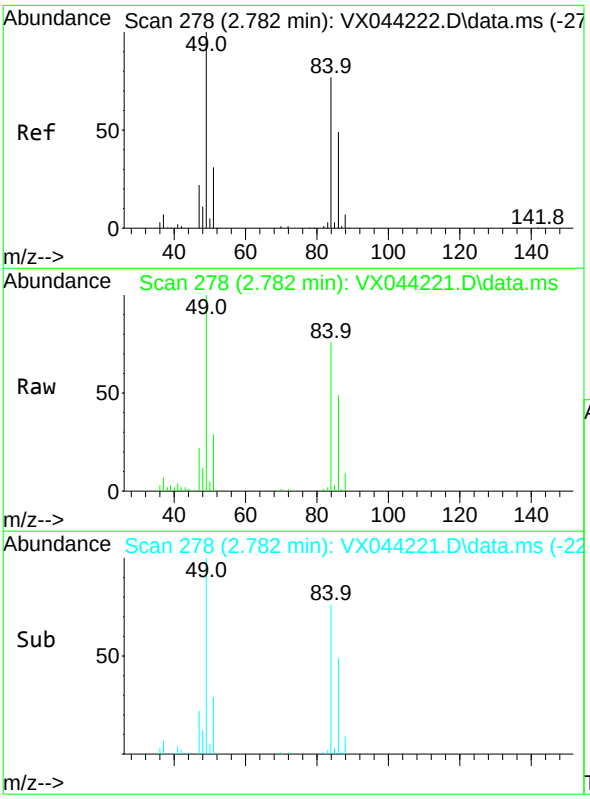
Ion	Ratio	Lower	Upper
73	100		
57	20.4	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

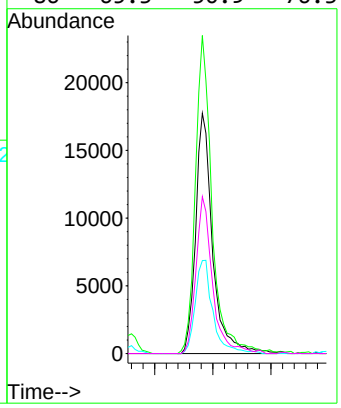
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

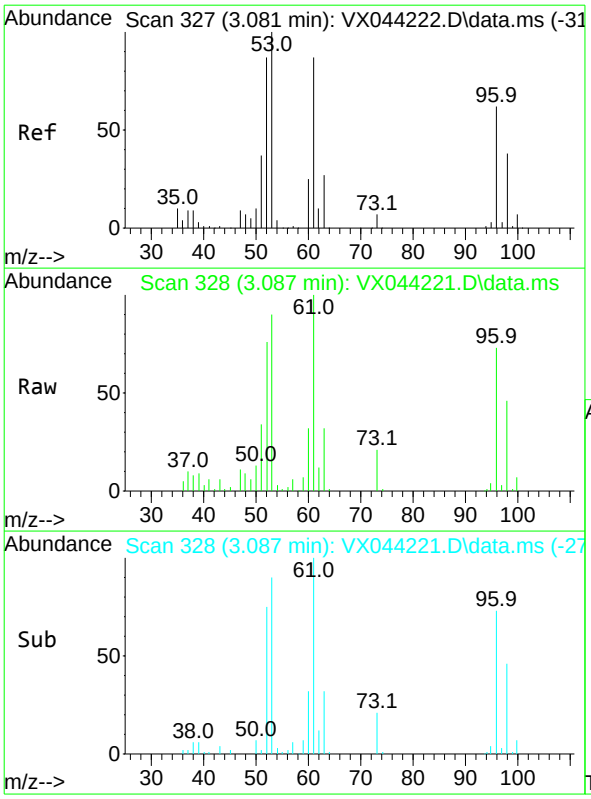


#20
Methylene Chloride
Concen: 19.846 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 84 Resp: 35820

Ion	Ratio	Lower	Upper
84	100		
49	132.3	104.2	156.4
51	38.7	32.2	48.4
86	65.3	50.9	76.3

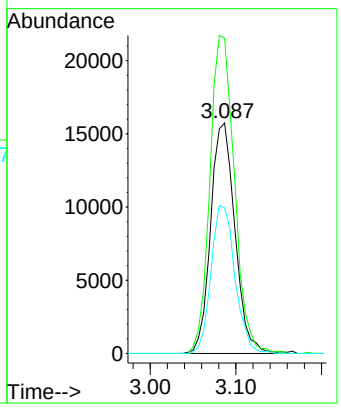




#21
trans-1,2-Dichloroethene
Concen: 19.380 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 96 Resp: 31036

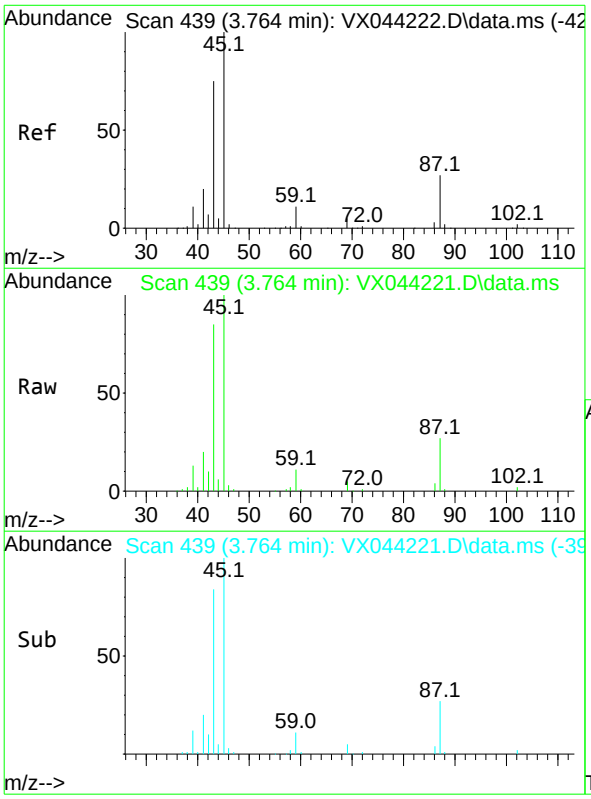
Ion	Ratio	Lower	Upper
96	100		
61	136.8	112.0	168.0
98	63.2	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

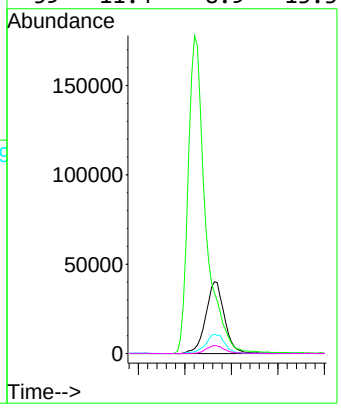
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

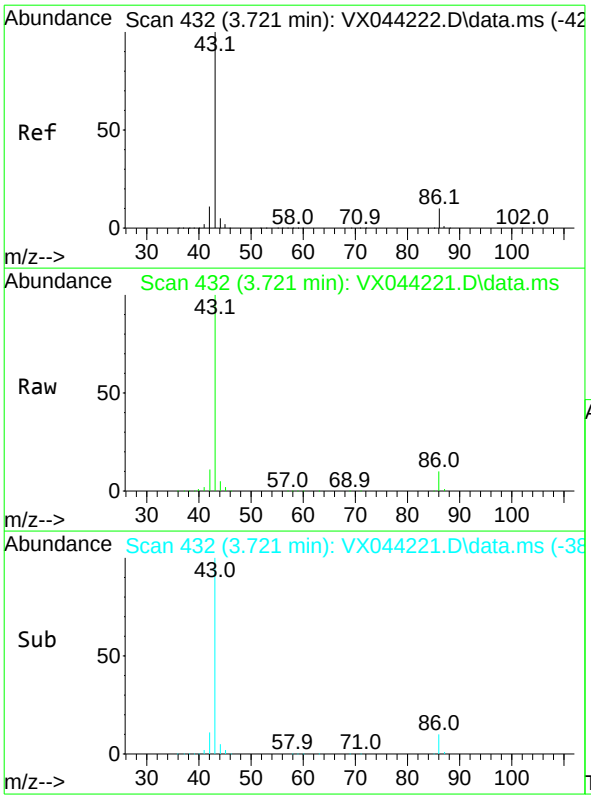


#22
Diisopropyl ether
Concen: 19.907 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 45 Resp: 112511

Ion	Ratio	Lower	Upper
45	100		
43	82.8	60.2	90.2
87	27.1	21.2	31.8
59	11.4	8.9	13.3





#23
Vinyl Acetate
Concen: 101.354 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

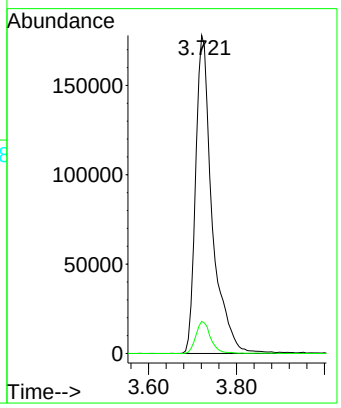
Tgt Ion: 43 Resp: 465716

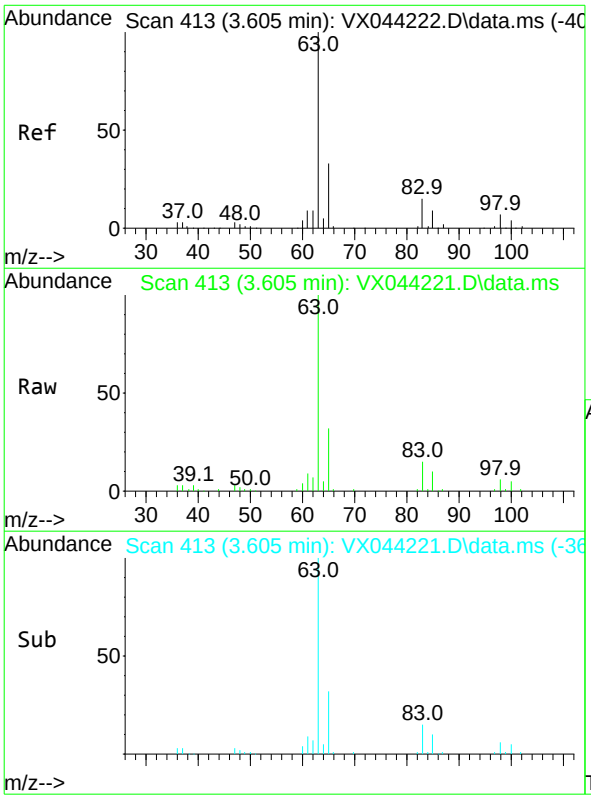
Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.2	12.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

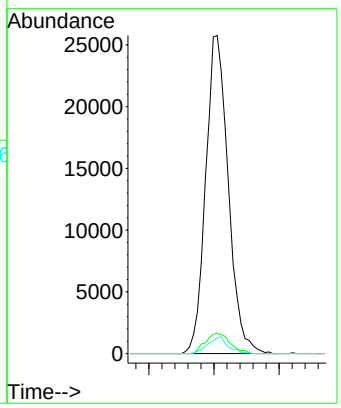


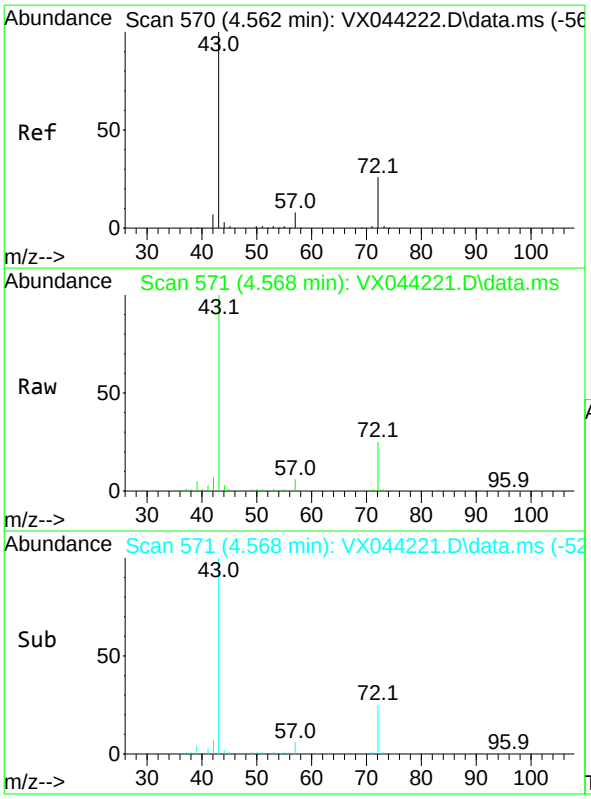


#24
1,1-Dichloroethane
Concen: 19.699 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 63 Resp: 62059

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.6	10.8
100	4.9	2.1	6.3

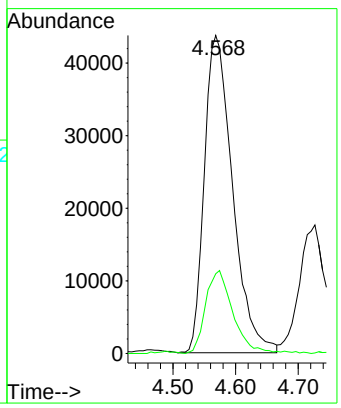




#25
2-Butanone
Concen: 100.277 ug/l
RT: 4.568 min Scan# 57
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 136992

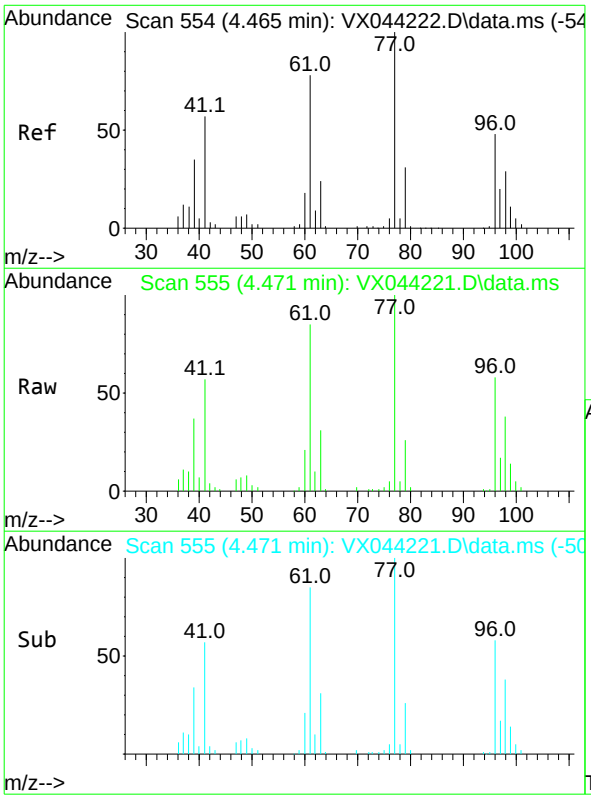
Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

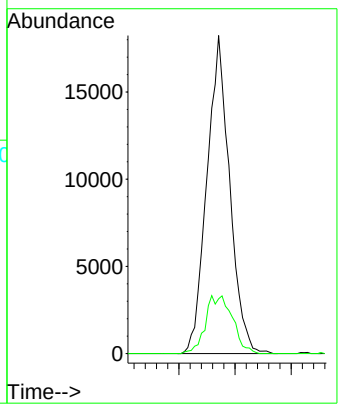
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

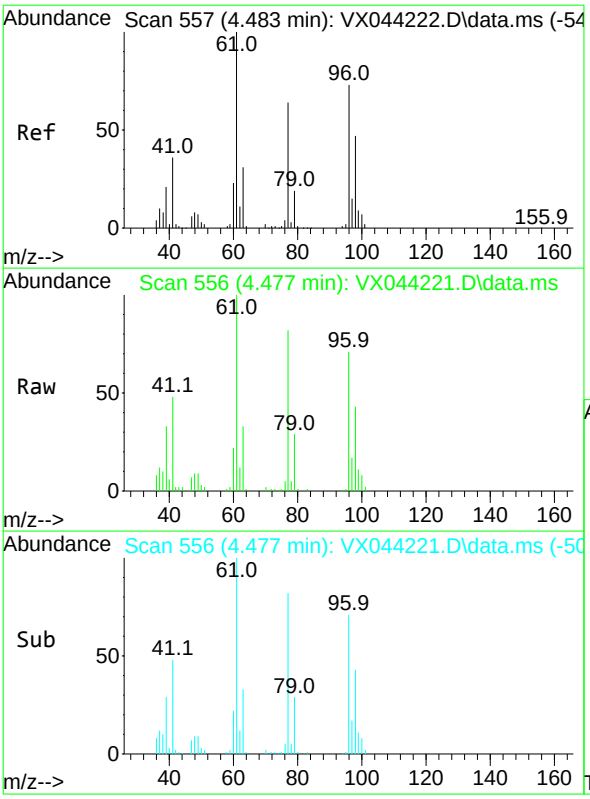


#26
2,2-Dichloropropane
Concen: 20.095 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 77 Resp: 51431

Ion	Ratio	Lower	Upper
77	100		
97	9.1	10.7	32.1#

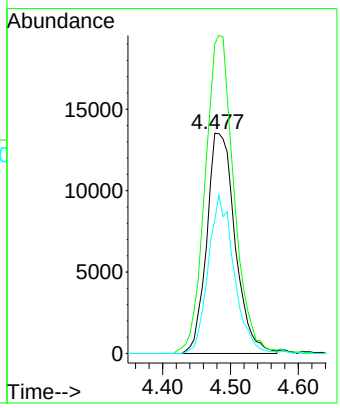




#27
cis-1,2-Dichloroethene
Concen: 19.254 ug/l
RT: 4.477 min Scan# 55
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 96 Resp: 39161

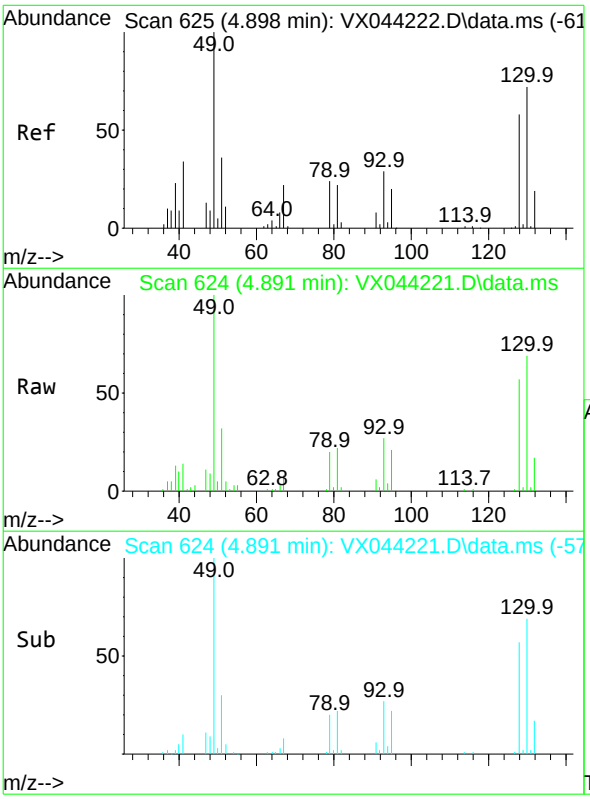
Ion	Ratio	Lower	Upper
96	100		
61	147.6	0.0	299.0
98	65.5	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

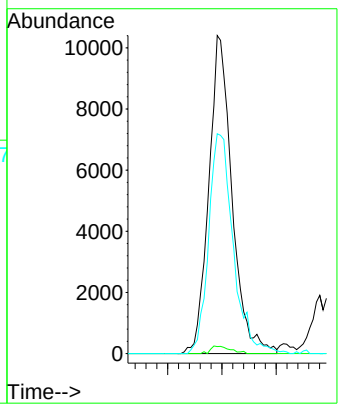
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

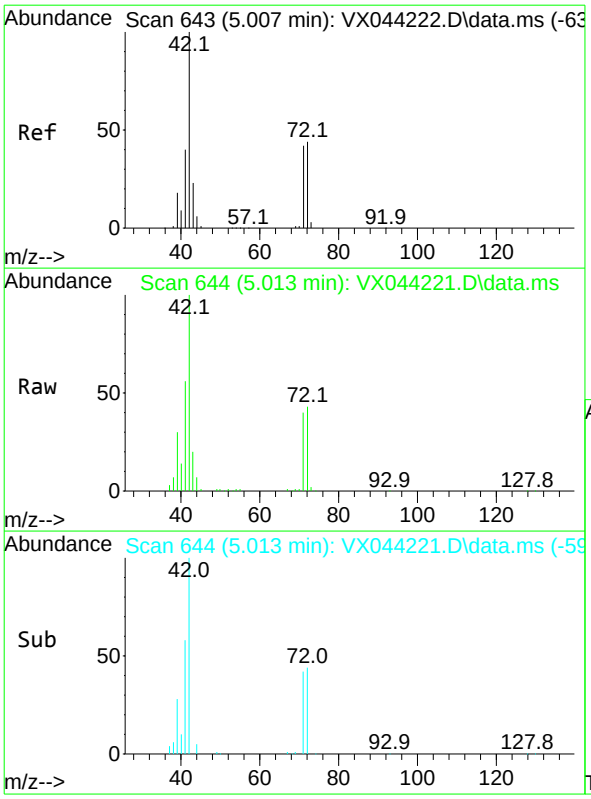


#28
Bromochloromethane
Concen: 20.052 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 49 Resp: 30977

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	73.1	62.1	93.1

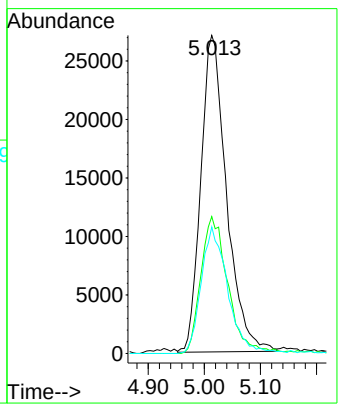




#29
Tetrahydrofuran
Concen: 98.343 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 42 Resp: 86235

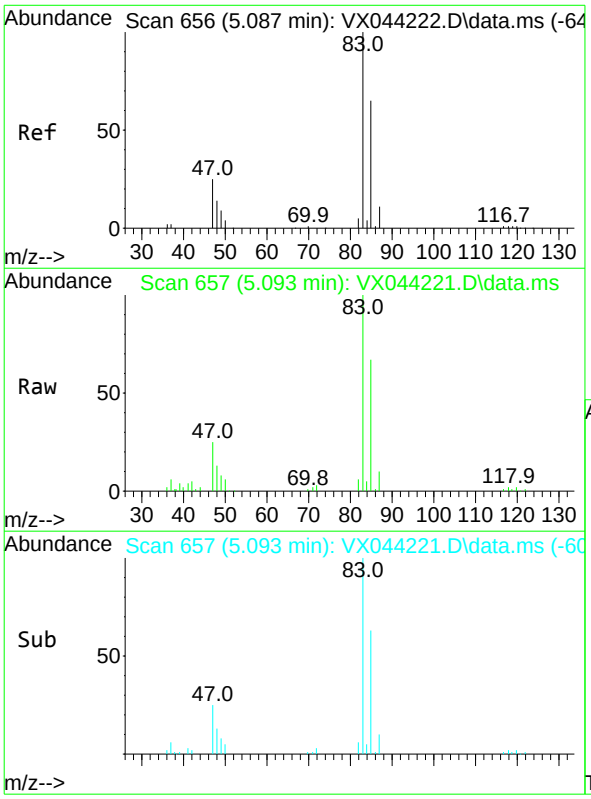
Ion	Ratio	Lower	Upper
42	100		
72	45.2	37.0	55.6
71	41.1	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

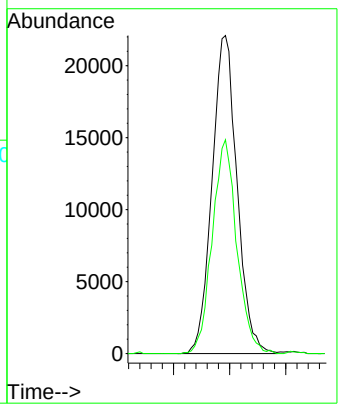
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

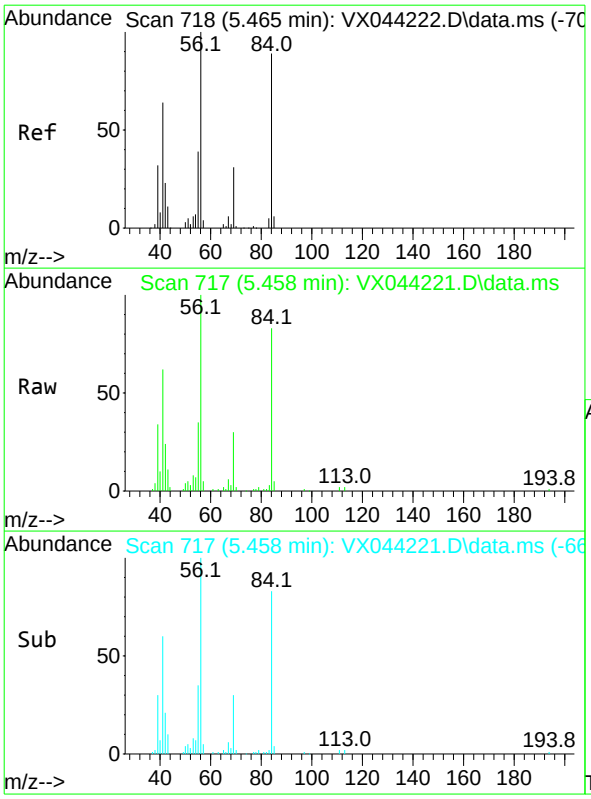


#30
Chloroform
Concen: 19.327 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 83 Resp: 68410

Ion	Ratio	Lower	Upper
83	100		
85	67.2	51.6	77.4

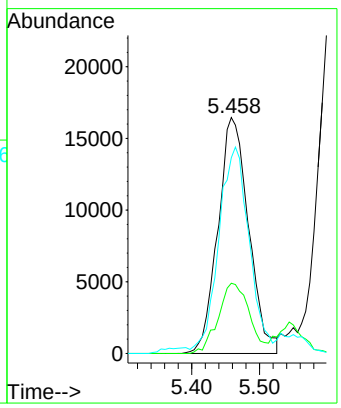




#31
Cyclohexane
Concen: 20.351 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 56 Resp: 51773

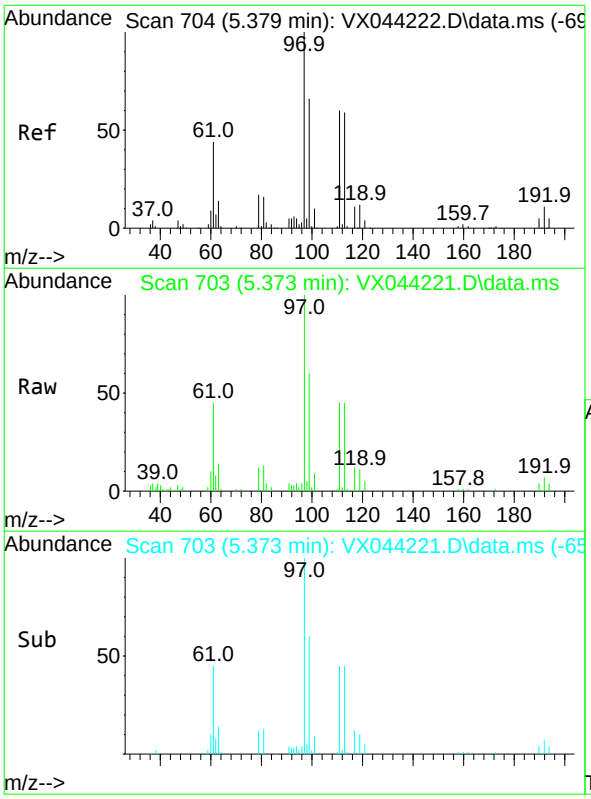
Ion	Ratio	Lower	Upper
56	100		
69	29.8	24.7	37.1
84	80.7	71.0	106.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

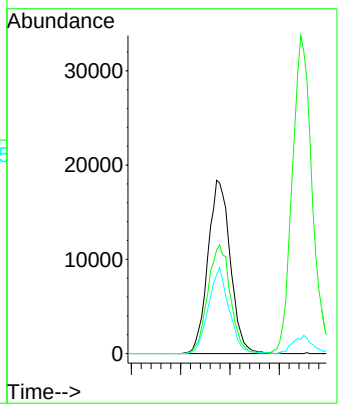
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

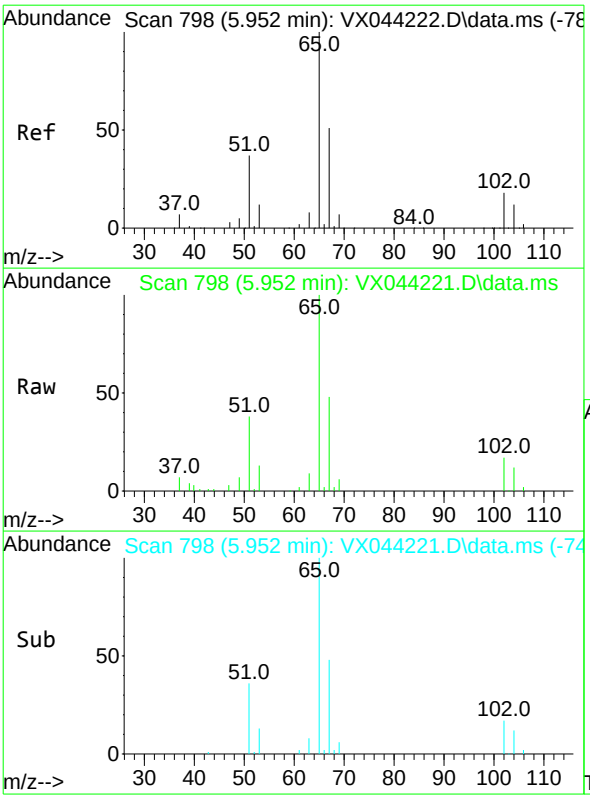


#32
1,1,1-Trichloroethane
Concen: 19.706 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 97 Resp: 57900

Ion	Ratio	Lower	Upper
97	100		
99	63.0	50.8	76.2
61	45.7	35.2	52.8





#33
1,2-Dichloroethane-d4
Concen: 17.743 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

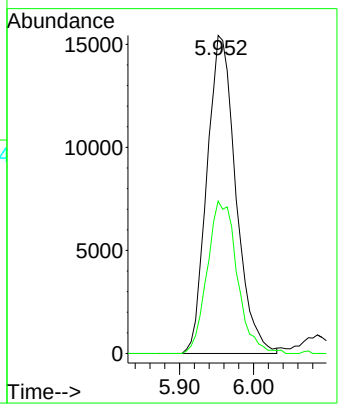
Tgt Ion: 65 Resp: 41821

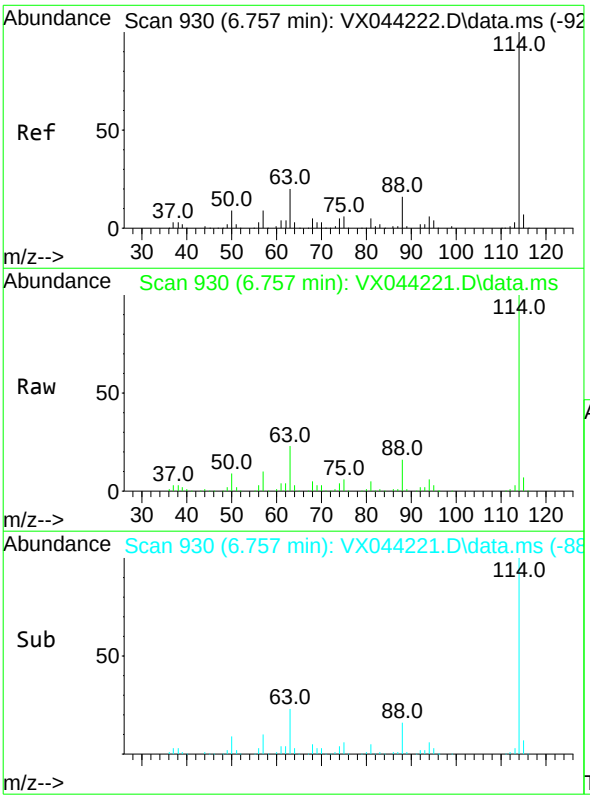
Ion	Ratio	Lower	Upper
65	100		
67	49.6	0.0	101.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

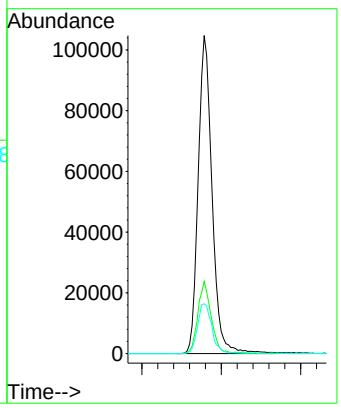


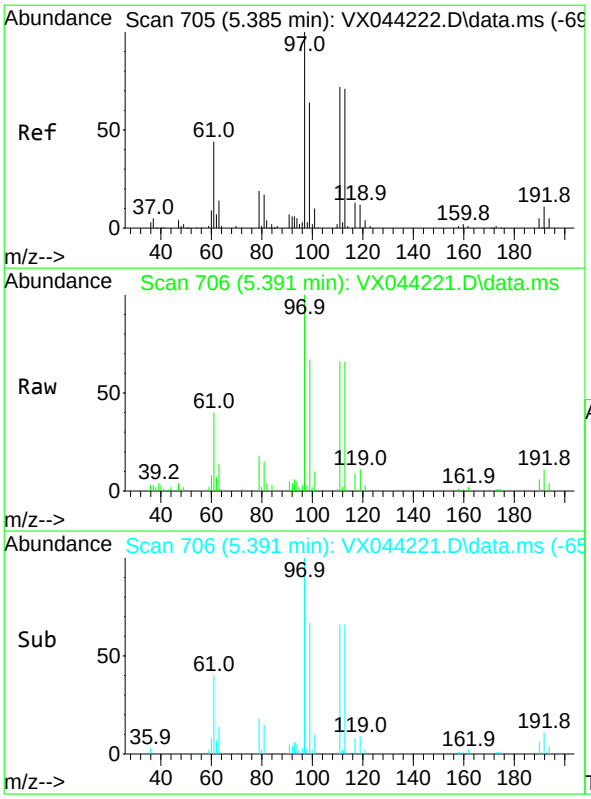


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:114 Resp: 254199

Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	40.6
88	15.7	0.0	31.8

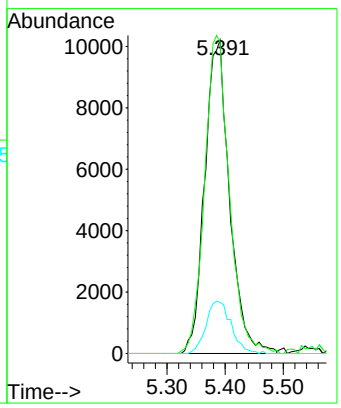




#35
Dibromofluoromethane
Concen: 17.213 ug/l
RT: 5.391 min Scan# 70
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:113 Resp: 30304

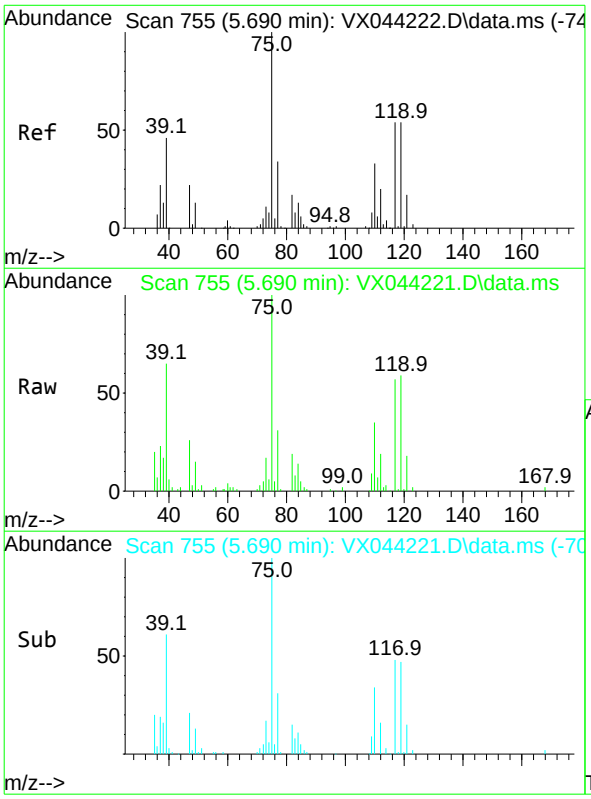
Ion	Ratio	Lower	Upper
113	100		
111	100.9	80.4	120.6
192	16.7	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

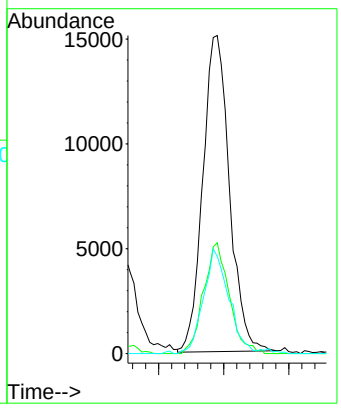
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

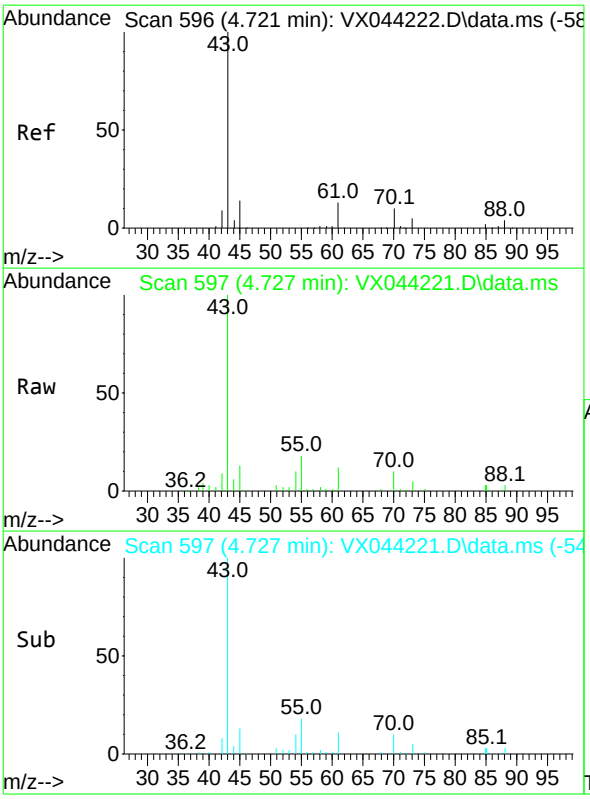


#36
1,1-Dichloropropene
Concen: 18.841 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 42878

Ion	Ratio	Lower	Upper
75	100		
110	33.7	17.3	51.7
77	31.3	25.4	38.0

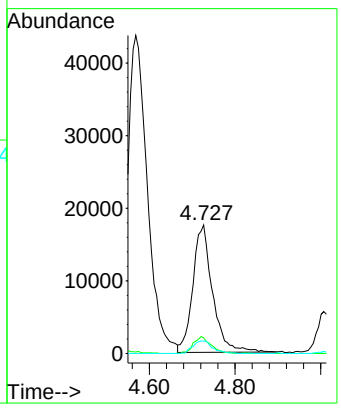




#37
Ethyl Acetate
Concen: 19.913 ug/l
RT: 4.727 min Scan# 59
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 56019

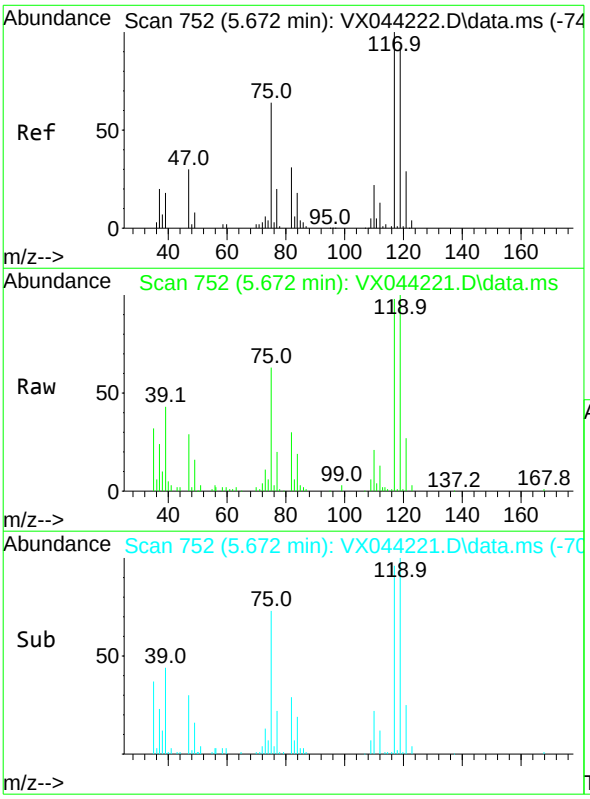
Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.8	14.8
70	9.9	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

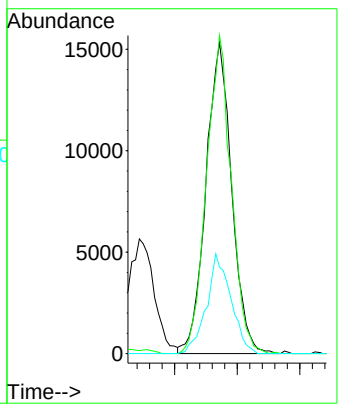
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

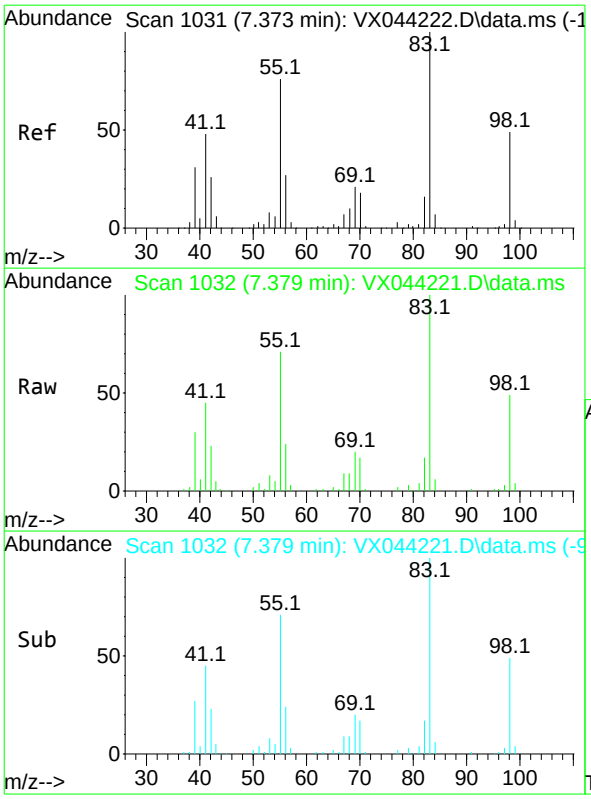


#38
Carbon Tetrachloride
Concen: 17.918 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:117 Resp: 43901

Ion	Ratio	Lower	Upper
117	100		
119	102.3	74.2	111.4
121	27.8	23.0	34.6

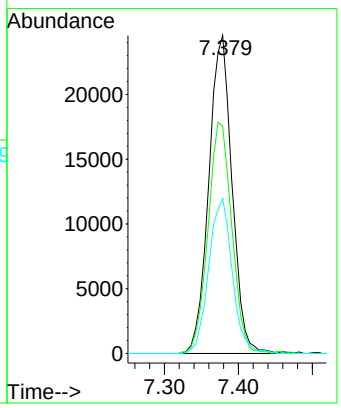




#39
Methylcyclohexane
Concen: 19.678 ug/l
RT: 7.379 min Scan# 10
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 83 Resp: 53536

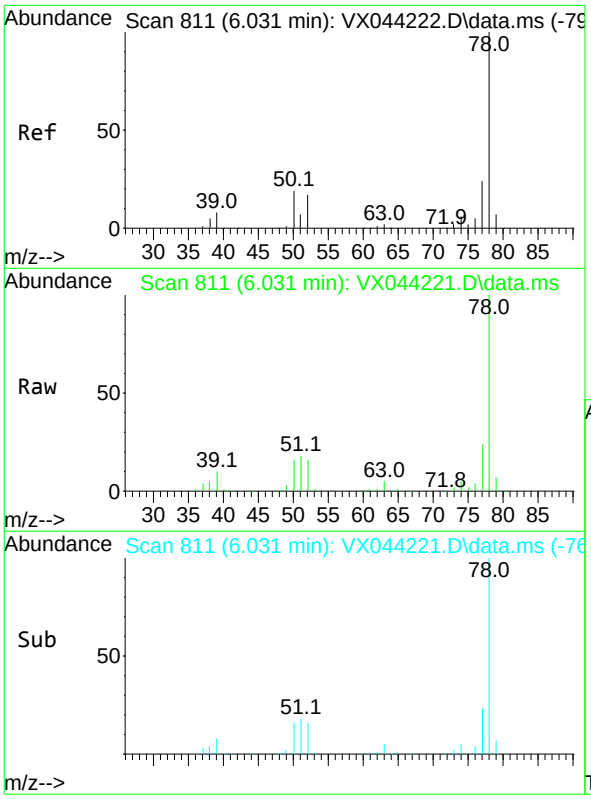
Ion	Ratio	Lower	Upper
83	100		
55	71.4	60.7	91.1
98	48.7	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

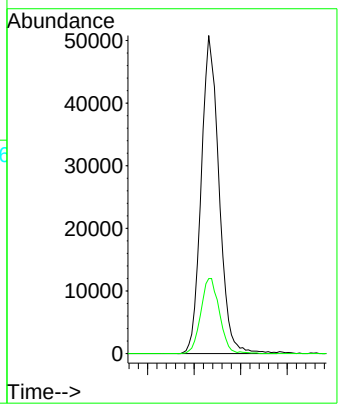
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

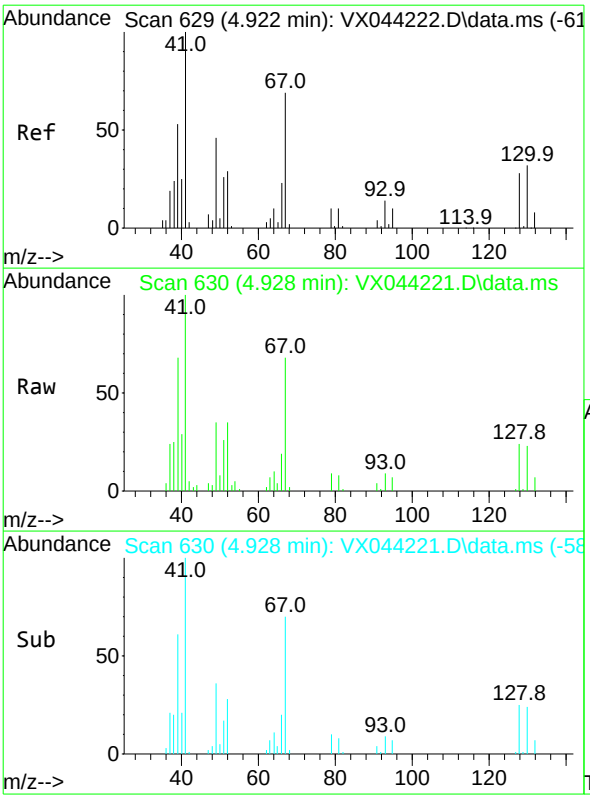


#40
Benzene
Concen: 19.606 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 78 Resp: 135467

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.3	28.9

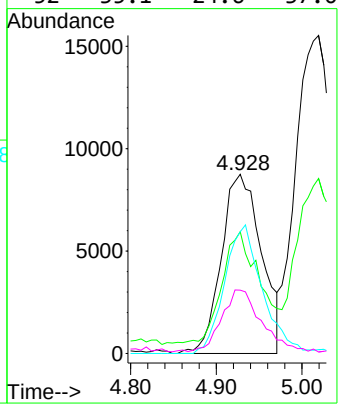




#41
Methacrylonitrile
Concen: 19.095 ug/l
RT: 4.928 min Scan# 63
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 41 Resp: 28523

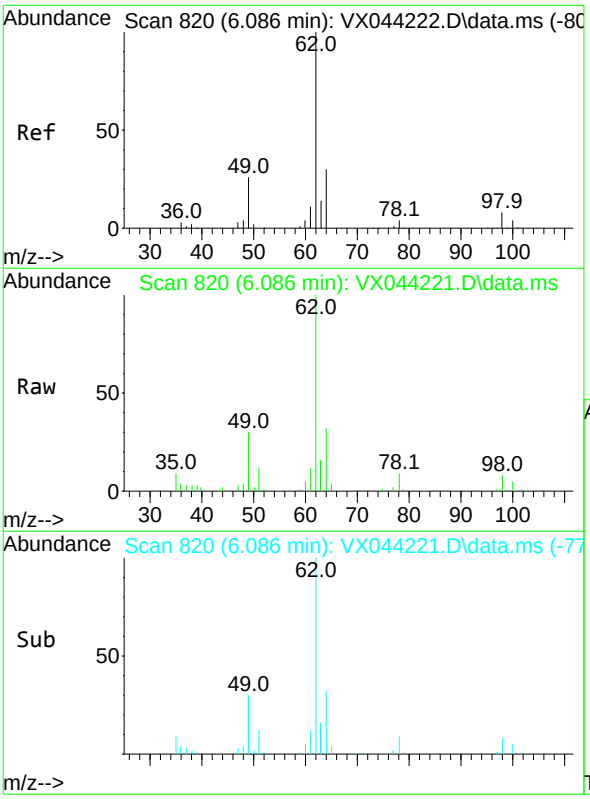
Ion	Ratio	Lower	Upper
41	100		
39	59.0	44.2	66.4
67	67.6	57.2	85.8
52	35.1	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

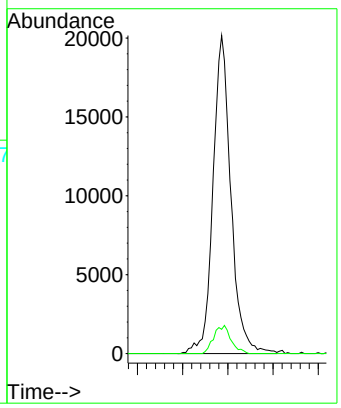
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

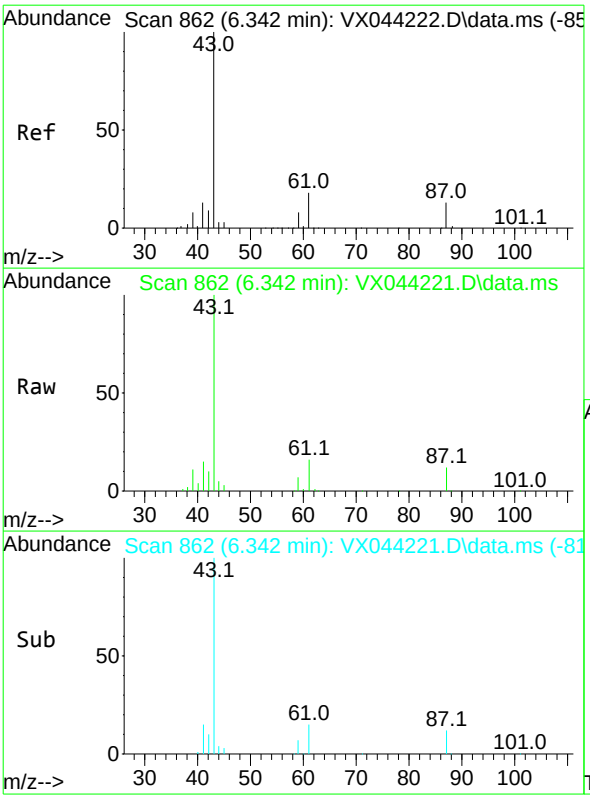


#42
1,2-Dichloroethane
Concen: 19.456 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 62 Resp: 55377

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	15.8

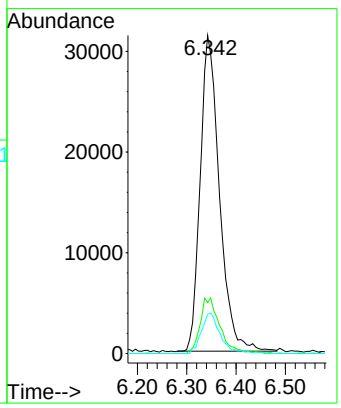




#43
Isopropyl Acetate
Concen: 19.301 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 84866

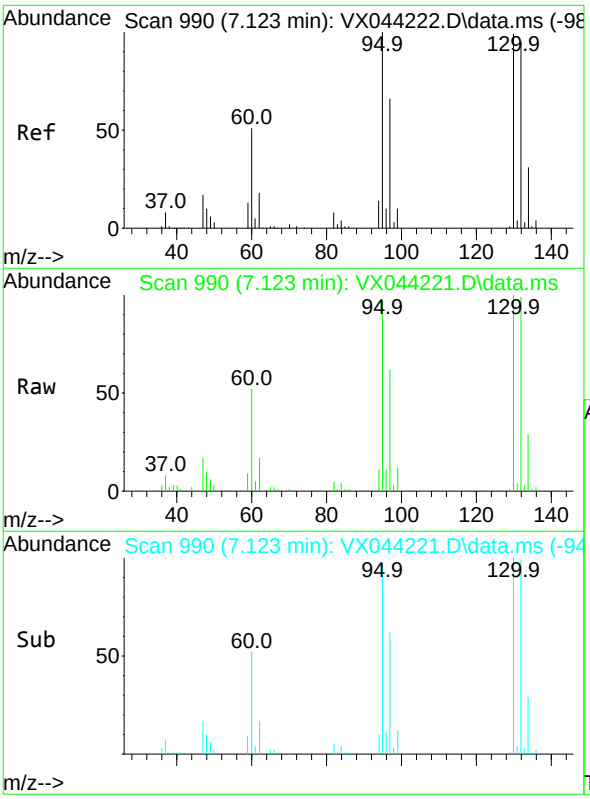
Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.2	21.2
87	12.5	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

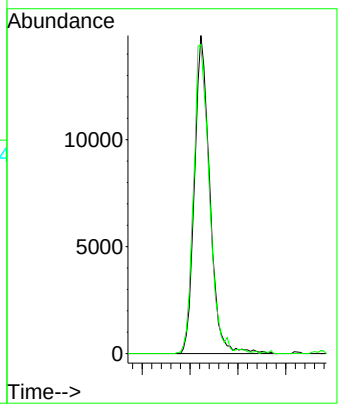
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

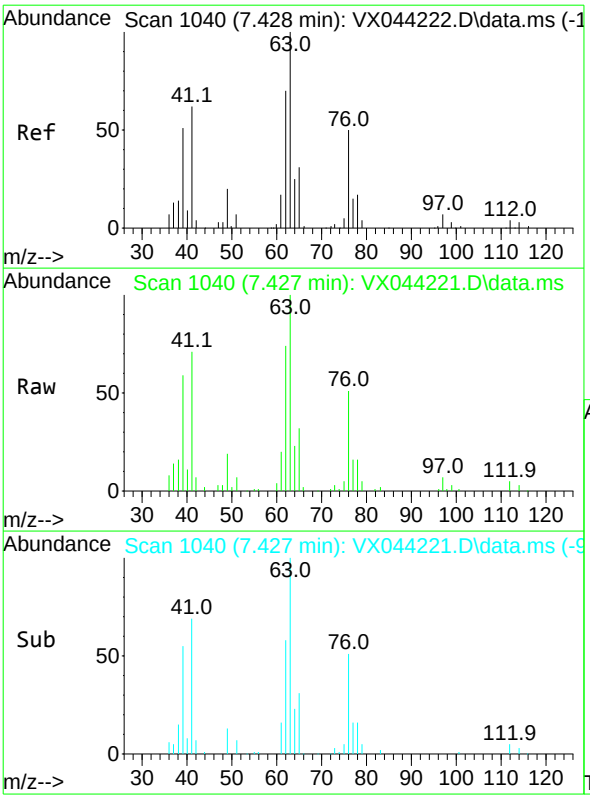


#44
Trichloroethene
Concen: 19.149 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:130 Resp: 32995

Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	201.4

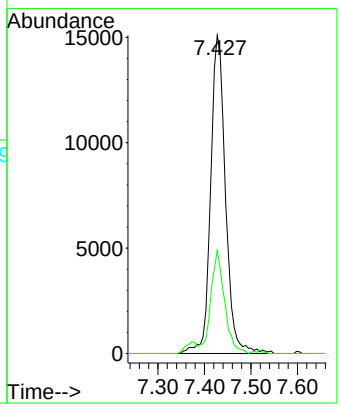




#45
1,2-Dichloropropane
Concen: 19.025 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 63 Resp: 33585

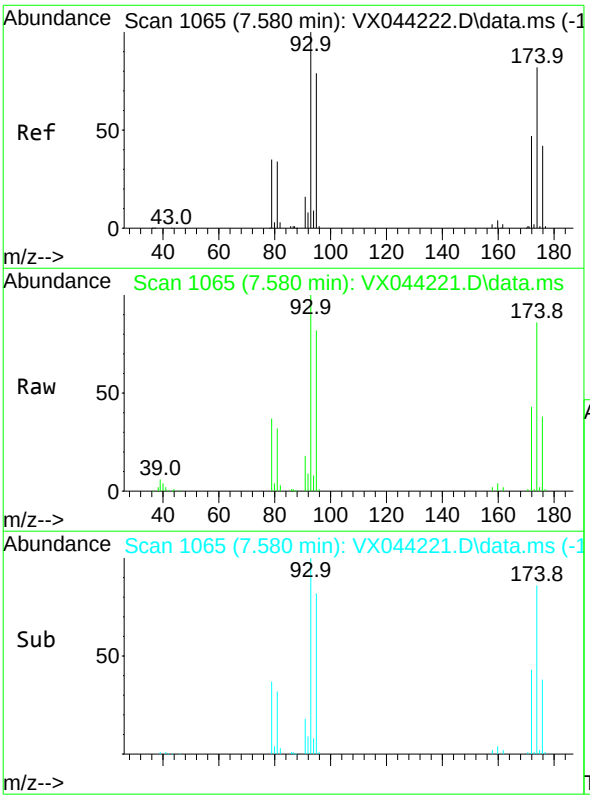
Ion	Ratio	Lower	Upper
63	100		
65	32.4	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

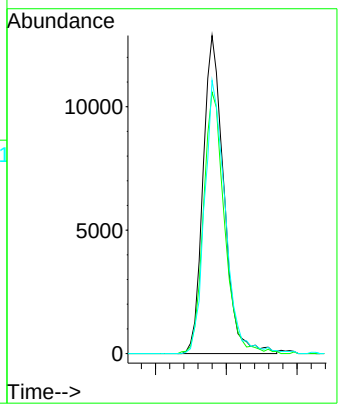
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

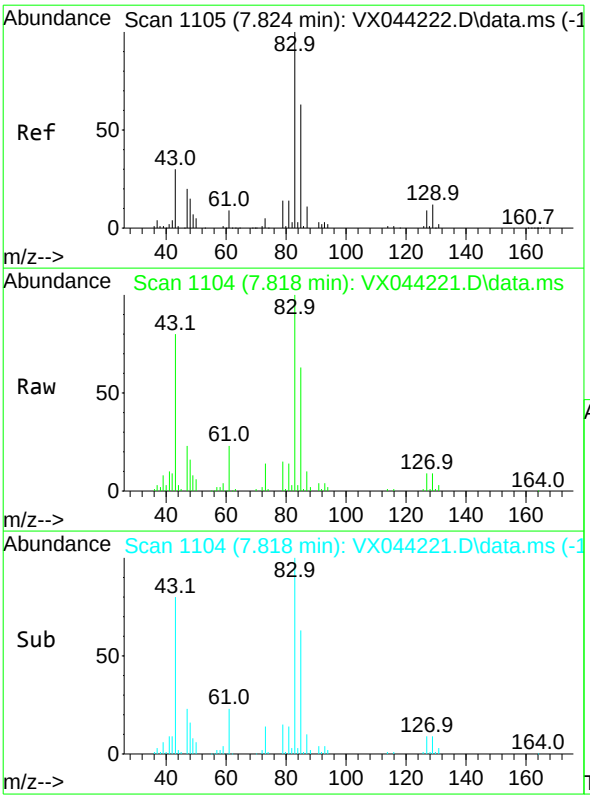


#46
Dibromomethane
Concen: 19.199 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 93 Resp: 26293

Ion	Ratio	Lower	Upper
93	100		
95	83.0	65.4	98.2
174	86.1	67.9	101.9

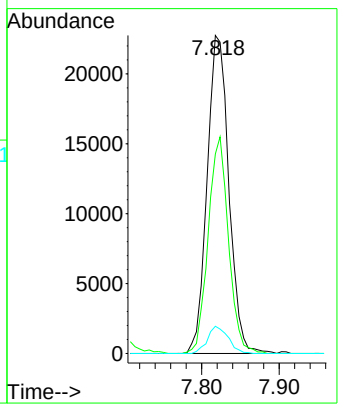




#47
Bromodichloromethane
Concen: 18.735 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 83 Resp: 44312

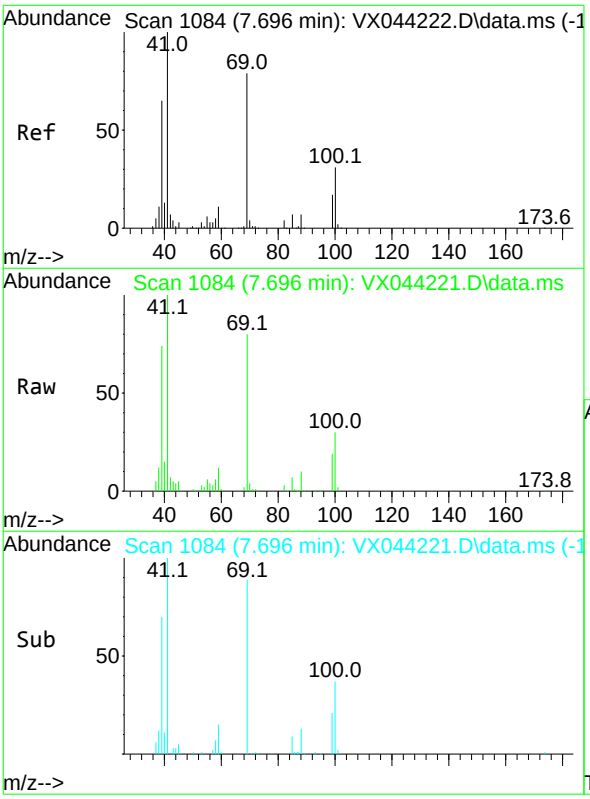
Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.6	75.8
127	8.6	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

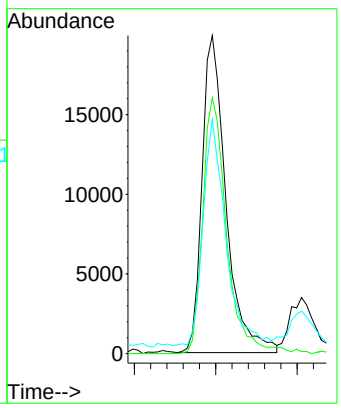
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

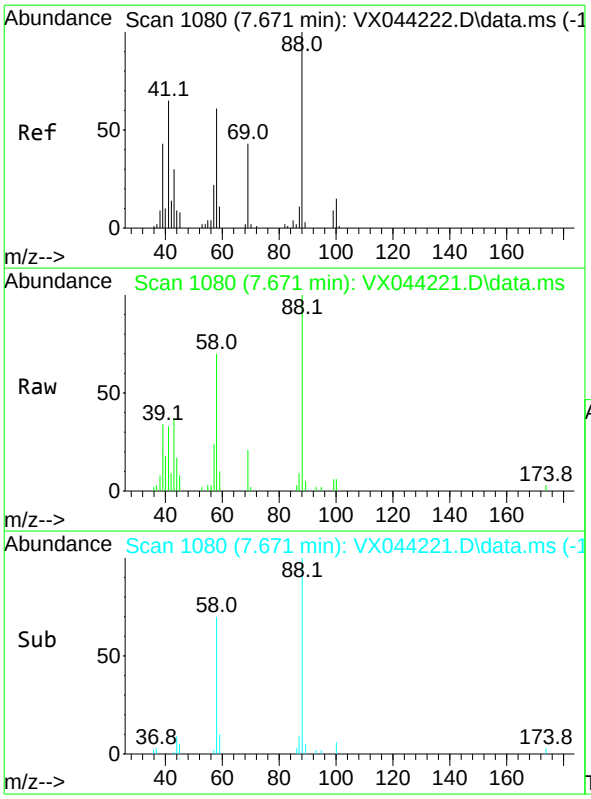


#48
Methyl methacrylate
Concen: 19.032 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 41 Resp: 40620

Ion	Ratio	Lower	Upper
41	100		
69	80.5	62.4	93.6
39	67.5	53.3	79.9

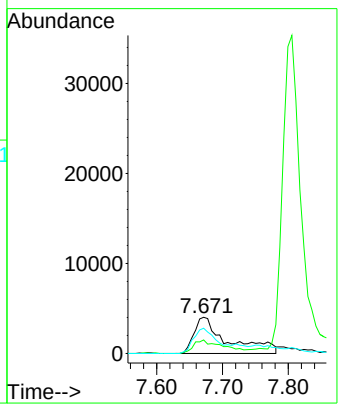




#49
1,4-Dioxane
Concen: 391.518 ug/l m
RT: 7.671 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 88 Resp: 14281

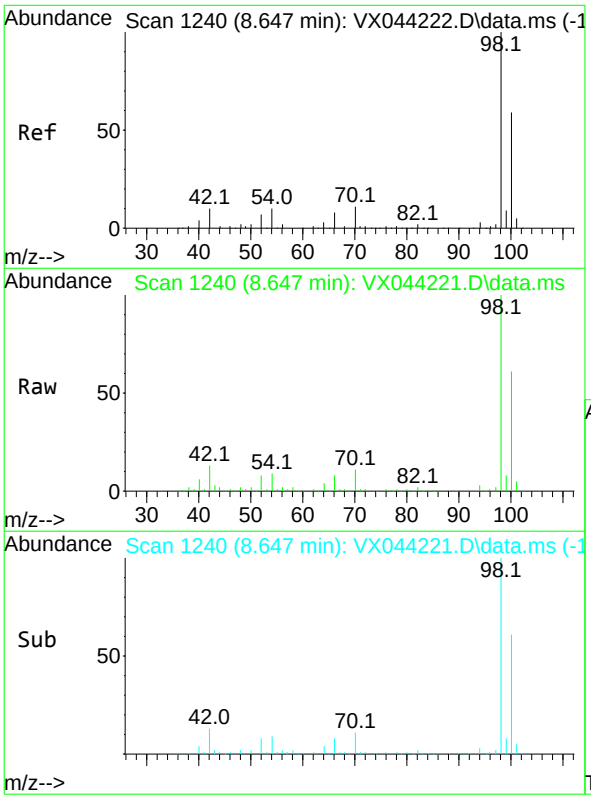
Ion	Ratio	Lower	Upper
88	100		
43	34.0	27.1	40.7
58	49.5	41.0	61.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

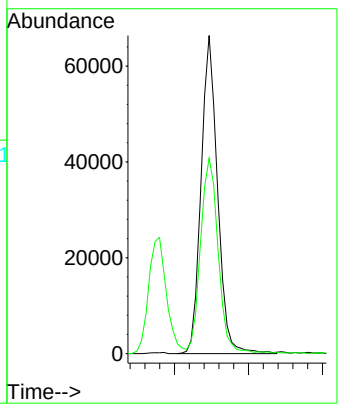
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

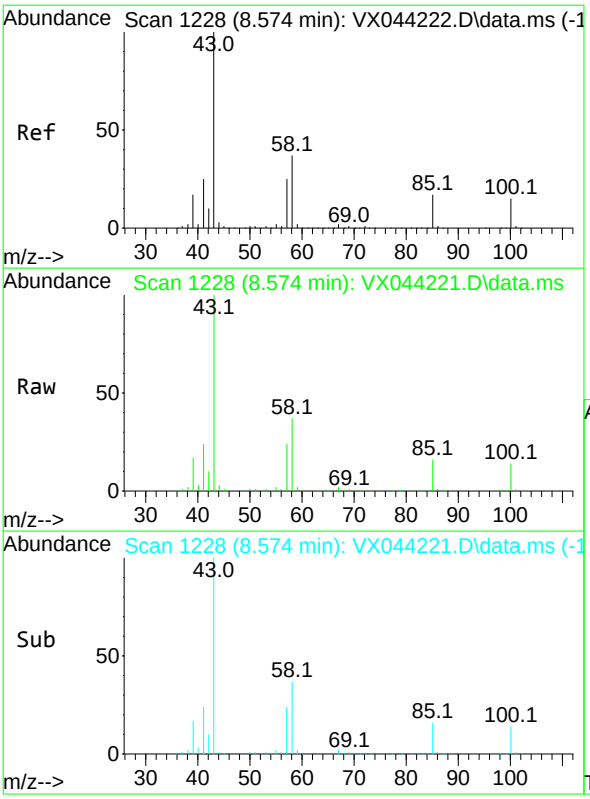


#50
Toluene-d8
Concen: 17.284 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 98 Resp: 102660

Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 98.429 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

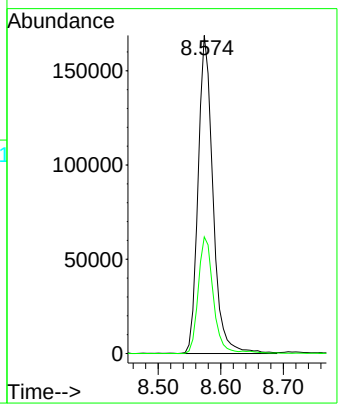
Tgt Ion: 43 Resp: 278267

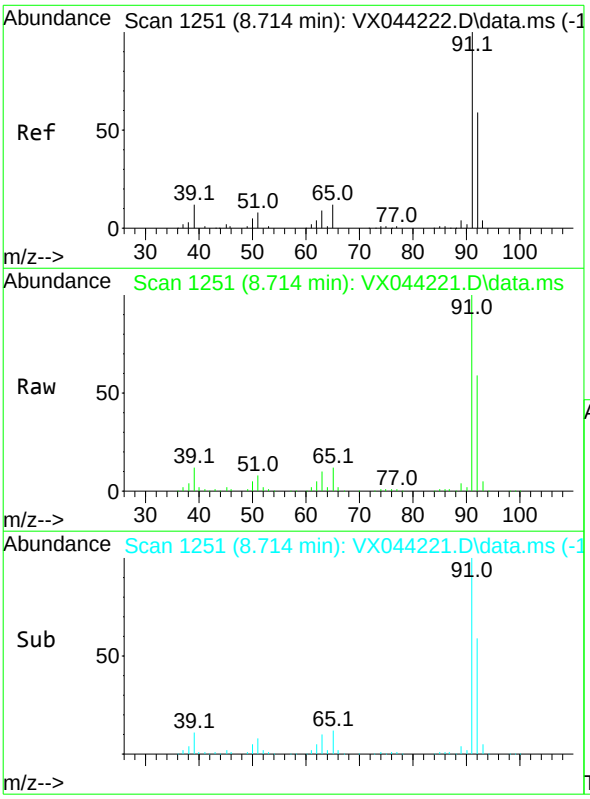
Ion	Ratio	Lower	Upper
43	100		
58	36.6	29.4	44.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

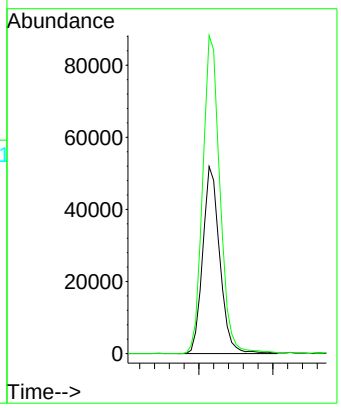


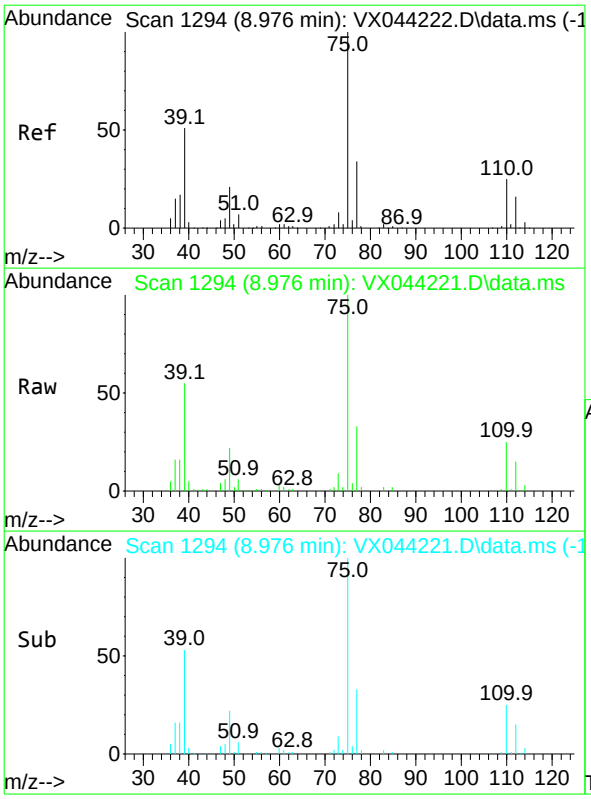


#52
Toluene
Concen: 19.113 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 92 Resp: 82934

Ion	Ratio	Lower	Upper
92	100		
91	172.9	137.0	205.6

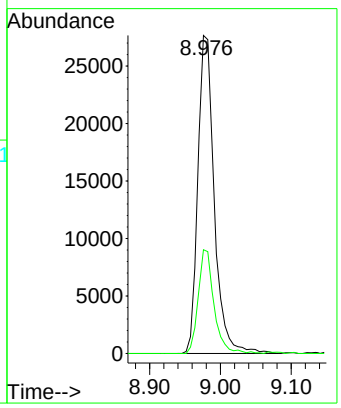




#53
t-1,3-Dichloropropene
Concen: 18.785 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 44614

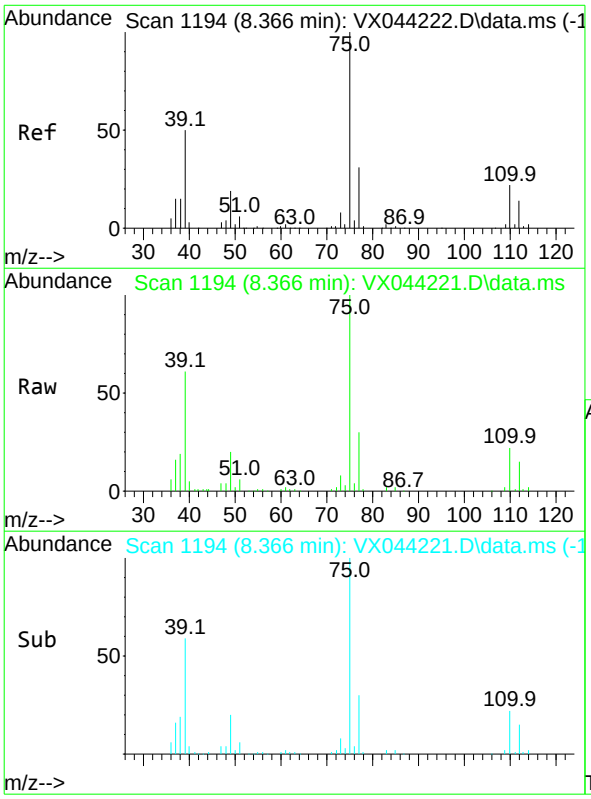
Ion	Ratio	Lower	Upper
75	100		
77	32.6	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

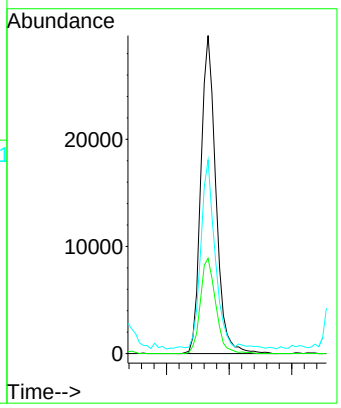
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

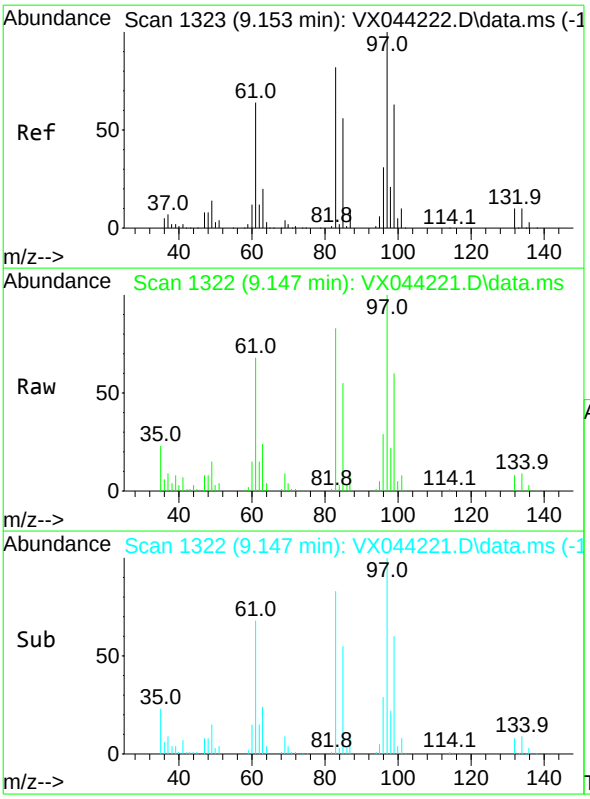


#54
cis-1,3-Dichloropropene
Concen: 19.258 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 49596

Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.7	37.1
39	59.4	40.3	60.5

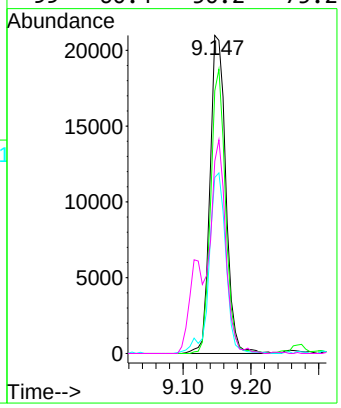




#55
1,1,2-Trichloroethane
Concen: 19.732 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 97 Resp: 34013

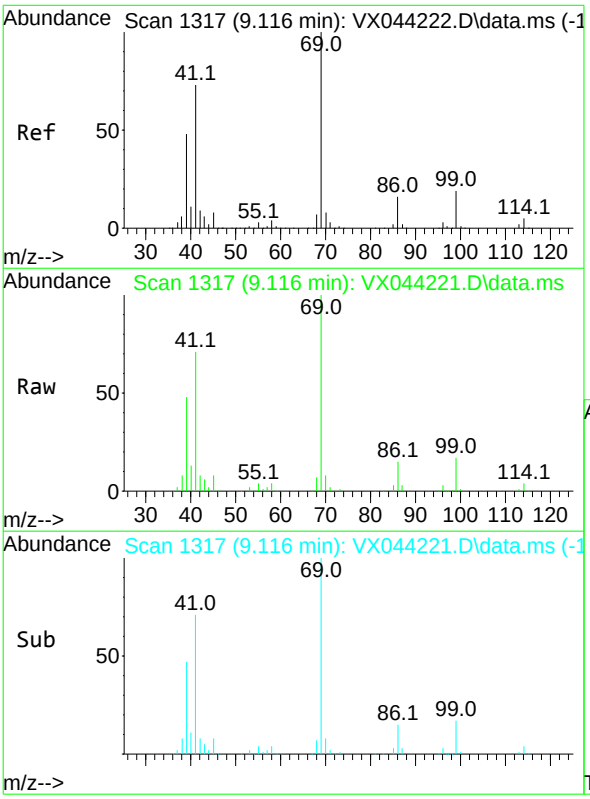
Ion	Ratio	Lower	Upper
97	100		
83	82.6	65.3	97.9
85	55.3	44.6	67.0
99	60.4	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

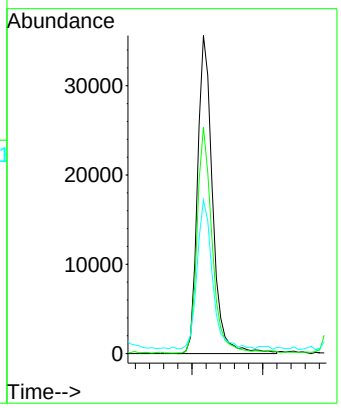
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

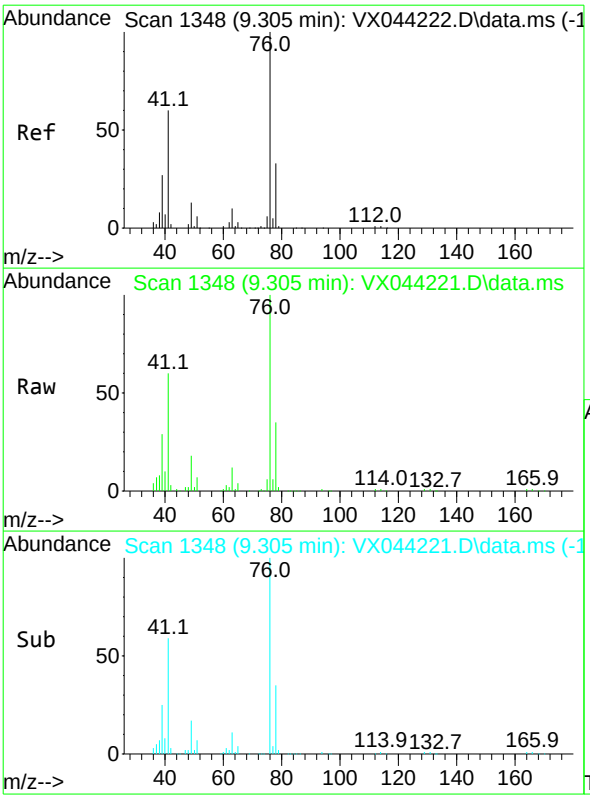


#56
Ethyl methacrylate
Concen: 19.318 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 69 Resp: 52571

Ion	Ratio	Lower	Upper
69	100		
41	70.3	56.6	85.0
39	47.8	37.4	56.0

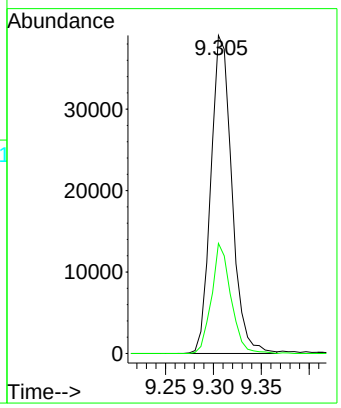




#57
1,3-Dichloropropane
Concen: 19.827 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 76 Resp: 59489

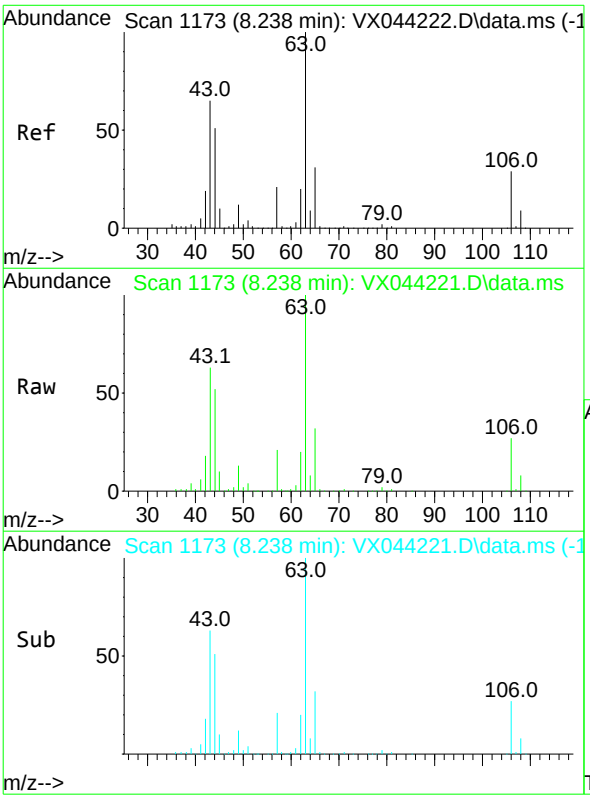
Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

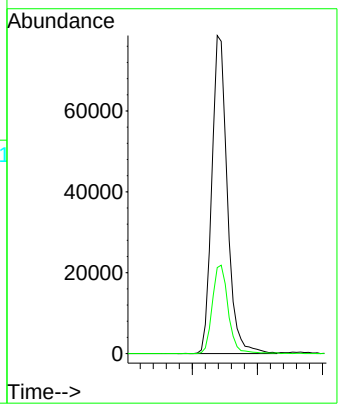
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

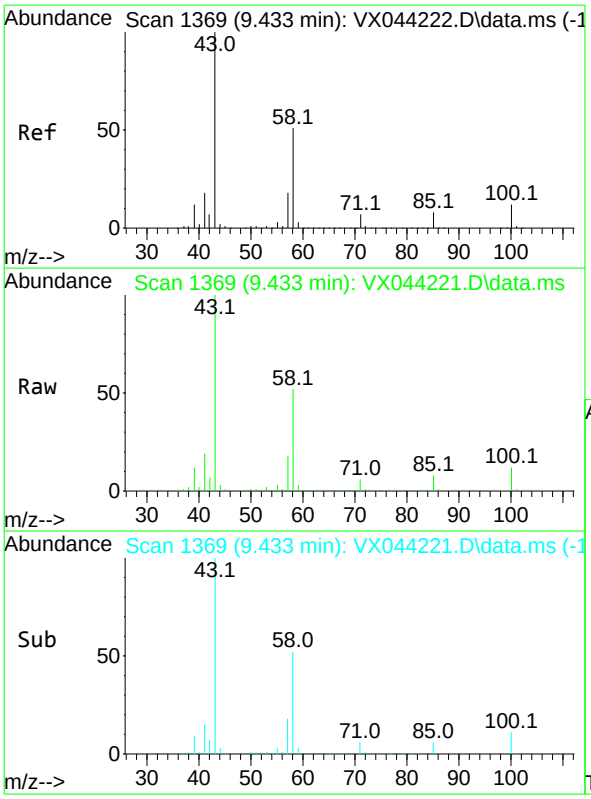


#58
2-Chloroethyl Vinyl ether
Concen: 94.642 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 63 Resp: 129900

Ion	Ratio	Lower	Upper
63	100		
106	28.4	22.8	34.2

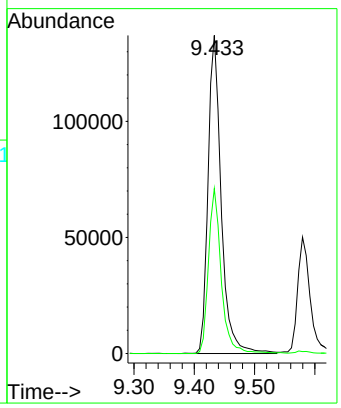




#59
2-Hexanone
Concen: 101.440 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 207578

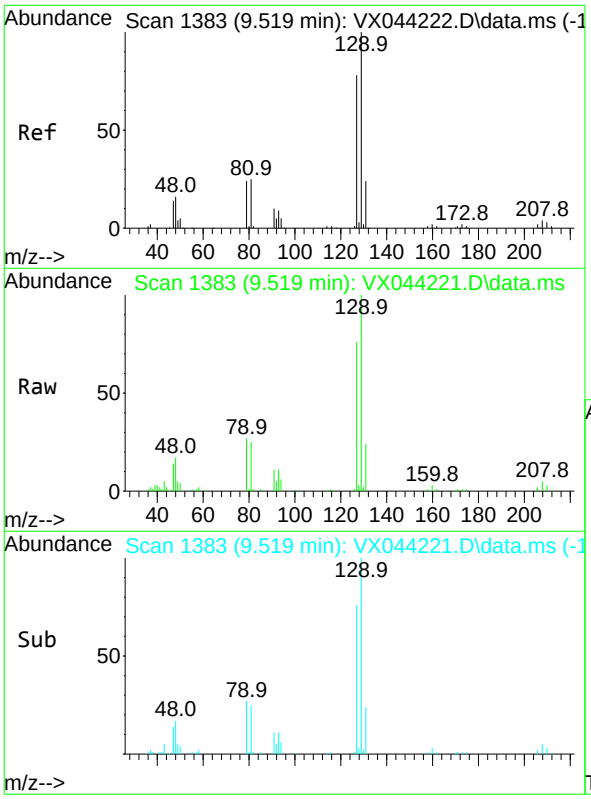
Ion	Ratio	Lower	Upper
43	100		
58	50.4	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

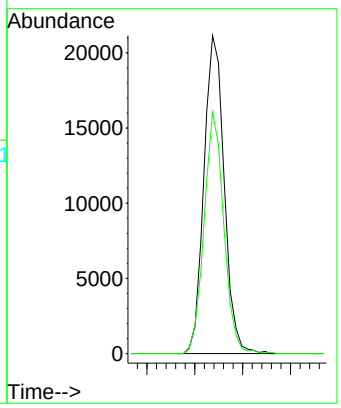
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

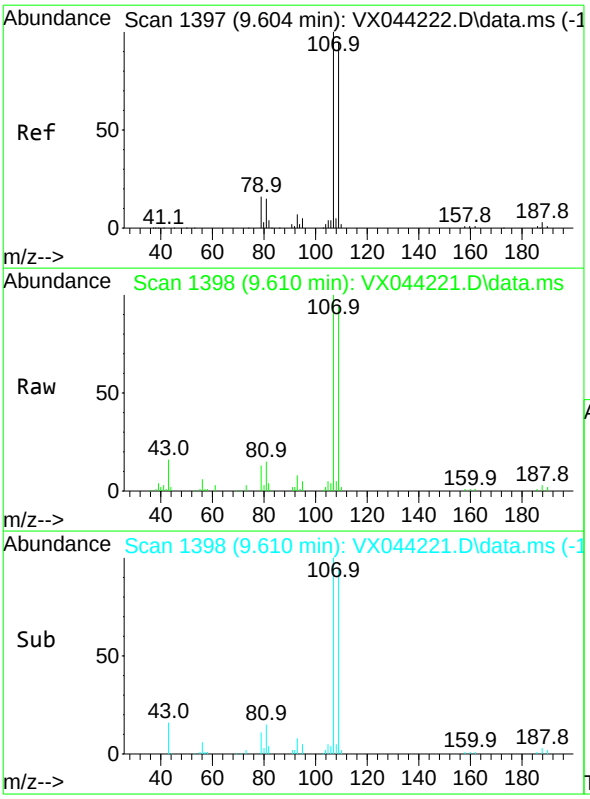


#60
Dibromochloromethane
Concen: 18.318 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:129 Resp: 31066

Ion	Ratio	Lower	Upper
129	100		
127	74.1	38.5	115.3

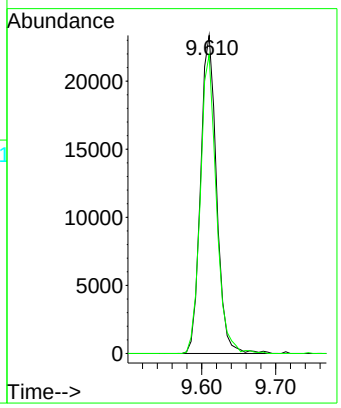




#61
1,2-Dibromoethane
Concen: 19.935 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:107 Resp: 34978

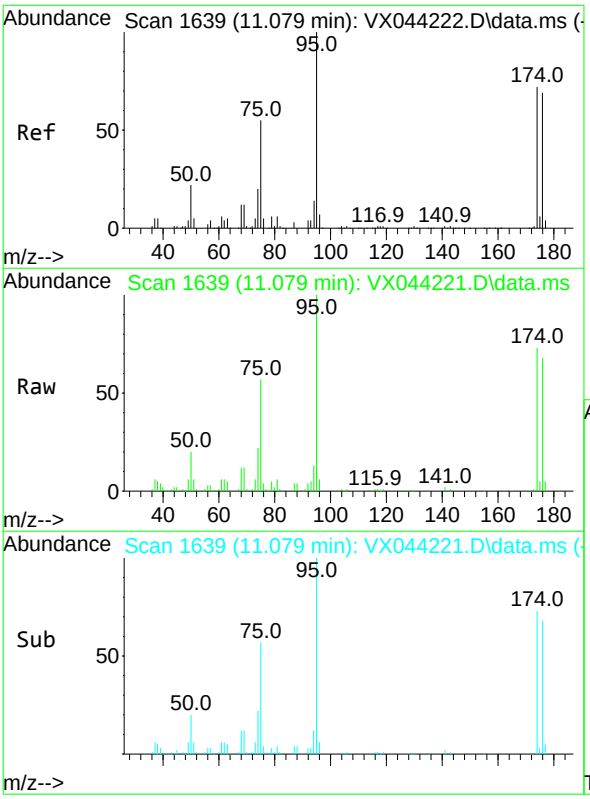
Ion	Ratio	Lower	Upper
107	100		
109	94.4	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

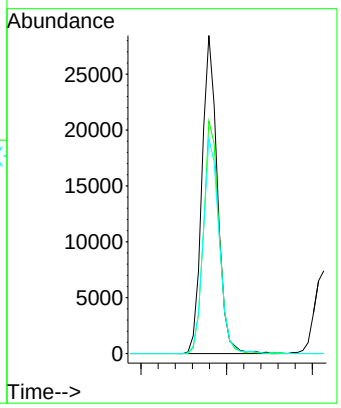
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

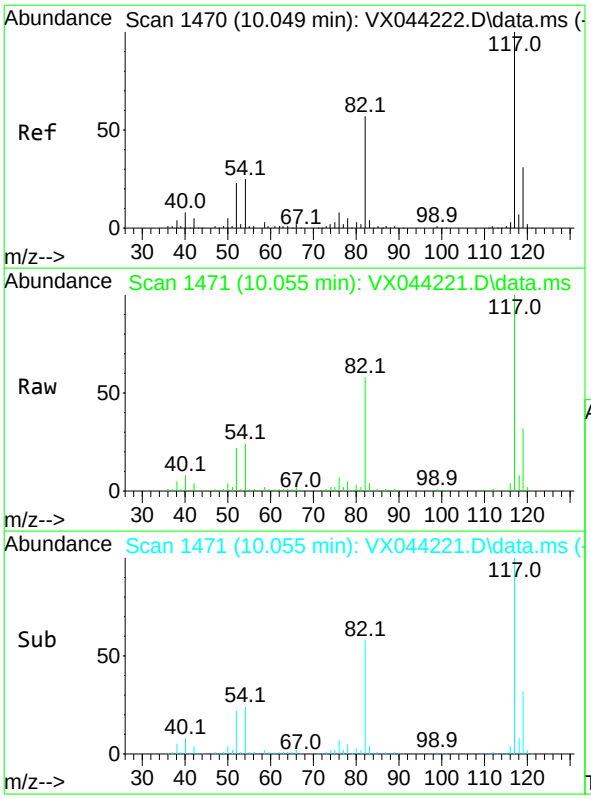


#62
4-Bromofluorobenzene
Concen: 17.175 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 95 Resp: 35645

Ion	Ratio	Lower	Upper
95	100		
174	73.3	0.0	145.8
176	70.5	0.0	137.8

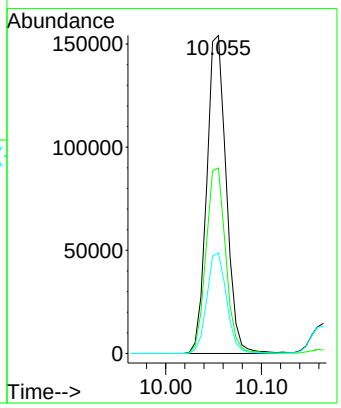




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:117 Resp: 218148

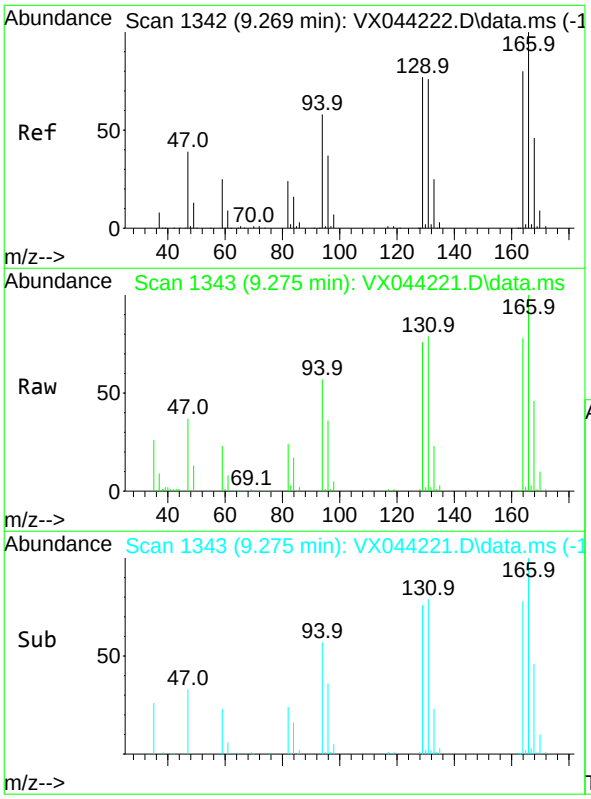
Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.8	68.8
119	31.6	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

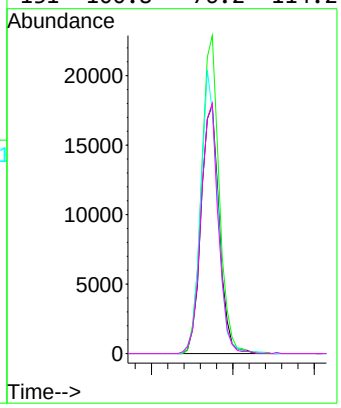
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

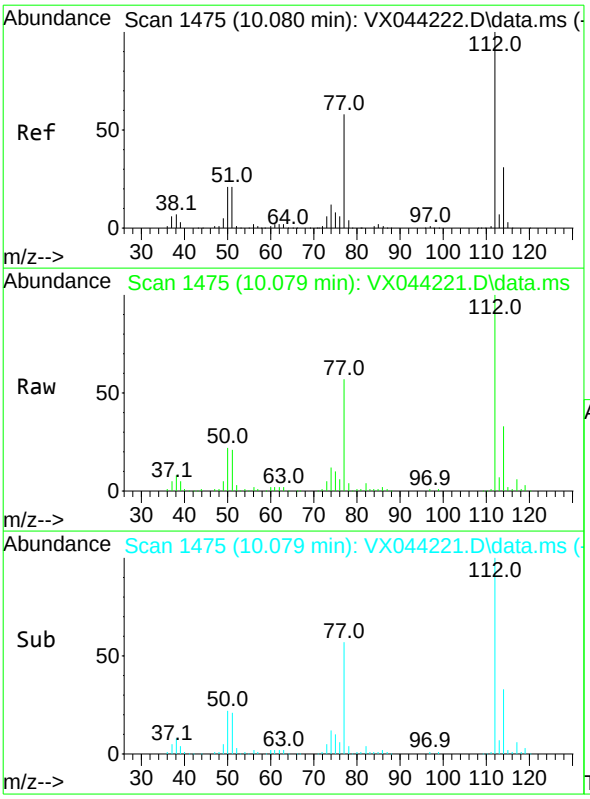


#64
Tetrachloroethene
Concen: 19.133 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:164 Resp: 27702

Ion	Ratio	Lower	Upper
164	100		
166	128.0	100.4	150.6
129	97.5	77.2	115.8
131	100.8	76.2	114.2

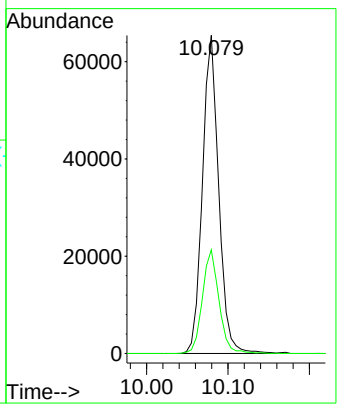




#65
Chlorobenzene
Concen: 19.389 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:112 Resp: 90631

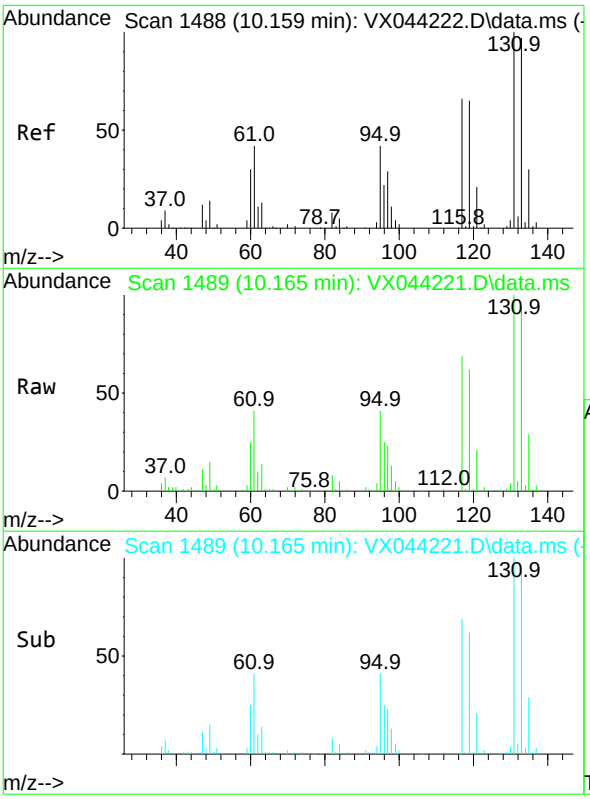
Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

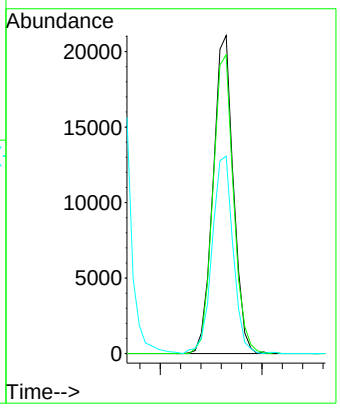
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

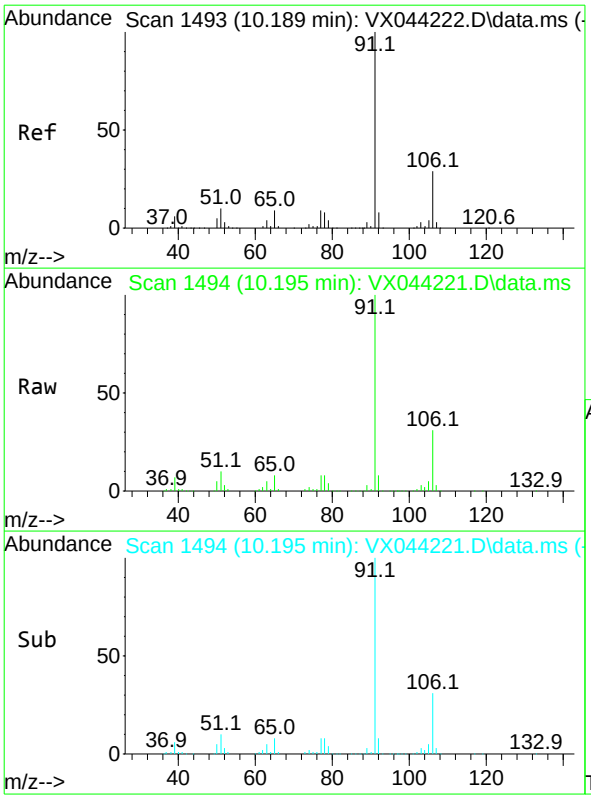


#66
1,1,1,2-Tetrachloroethane
Concen: 19.392 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:131 Resp: 29132

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.3	141.8
119	64.0	31.6	95.0

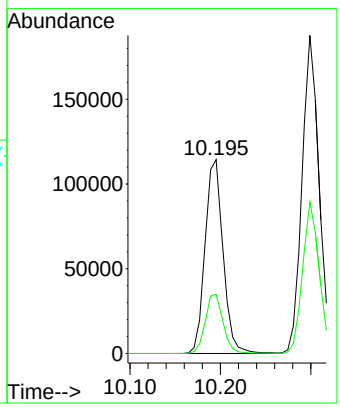




#67
Ethyl Benzene
Concen: 19.619 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 91 Resp: 158455

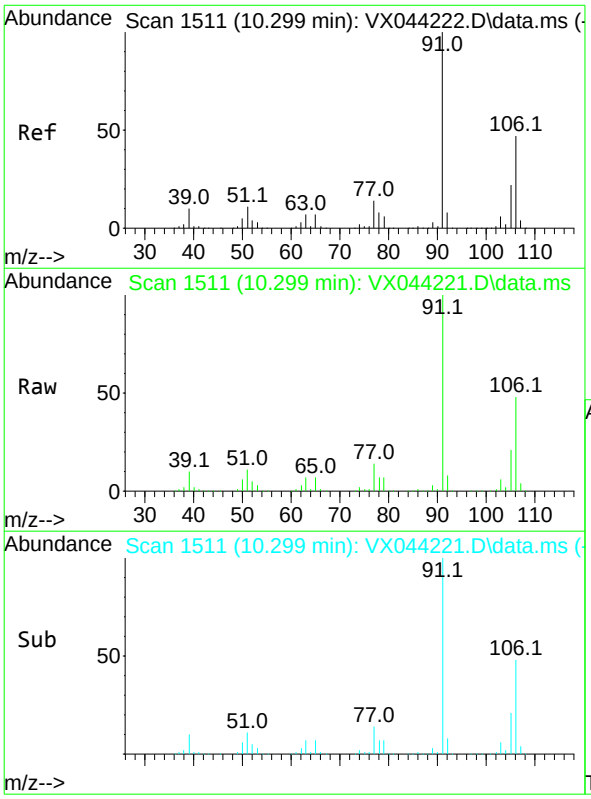
Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

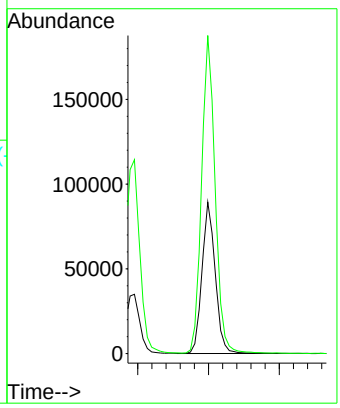
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

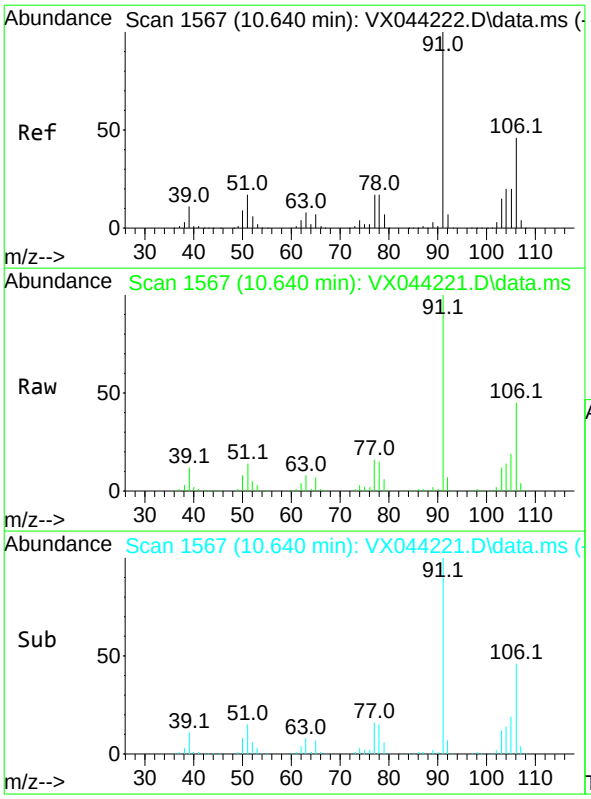


#68
m/p-Xylenes
Concen: 39.183 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:106 Resp: 116126

Ion	Ratio	Lower	Upper
106	100		
91	215.5	170.2	255.2

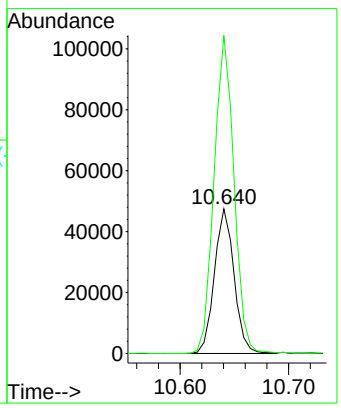




#69
o-Xylene
Concen: 19.938 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:106 Resp: 59787

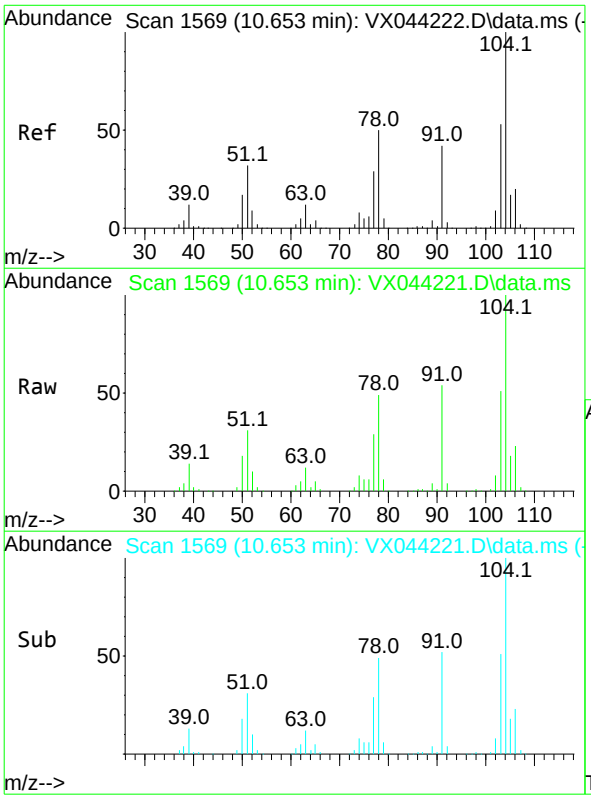
Ion	Ratio	Lower	Upper
106	100		
91	223.6	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

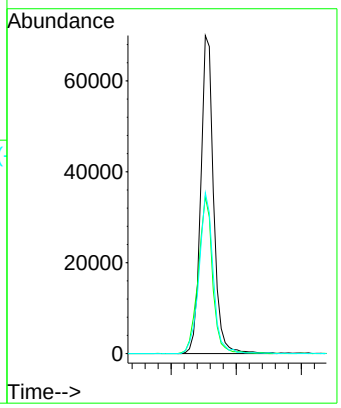
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

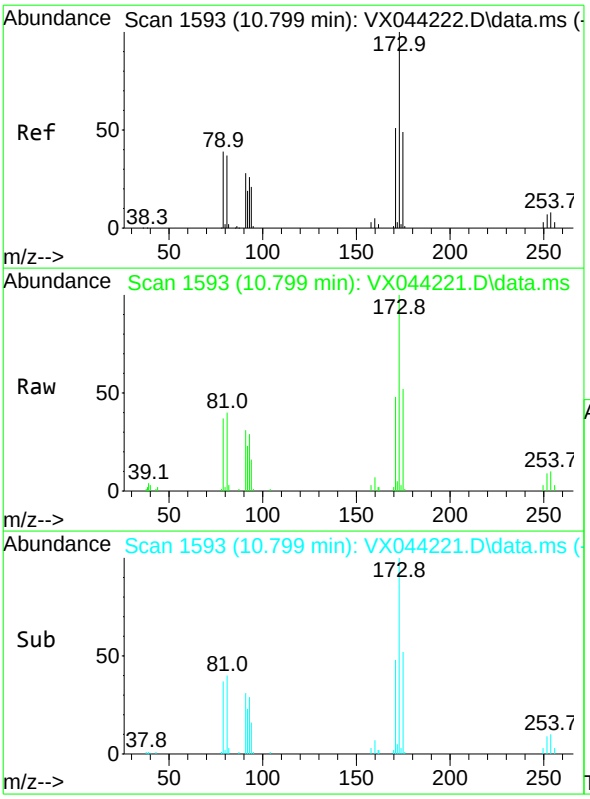


#70
Styrene
Concen: 19.946 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:104 Resp: 95883

Ion	Ratio	Lower	Upper
104	100		
78	54.7	44.6	67.0
103	55.2	45.4	68.0

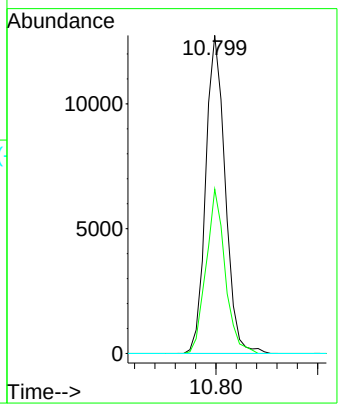




#71
Bromoform
Concen: 18.112 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:173 Resp: 16924

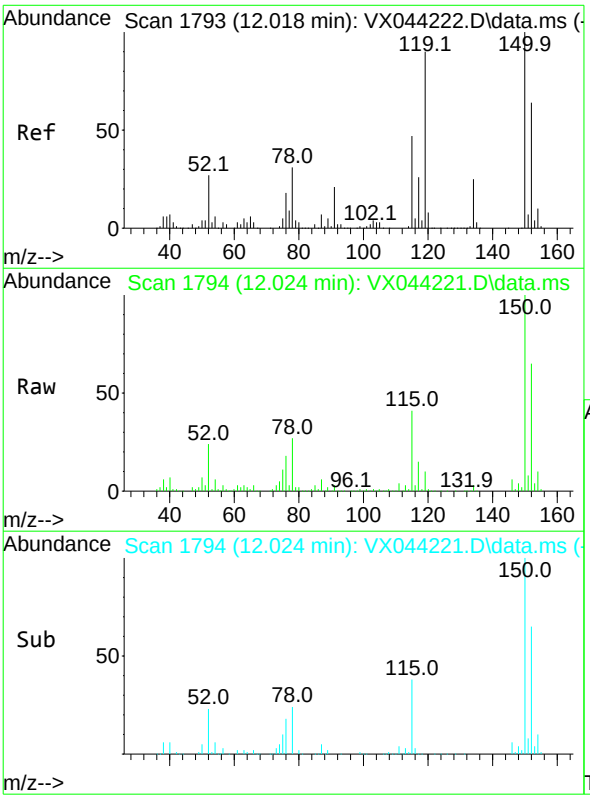
Ion	Ratio	Lower	Upper
173	100		
175	50.5	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

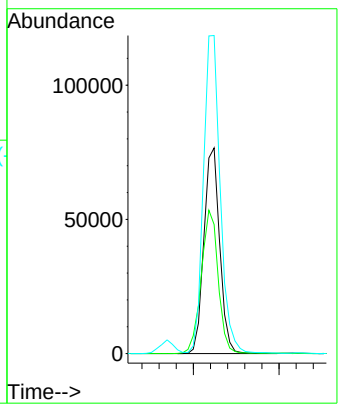
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

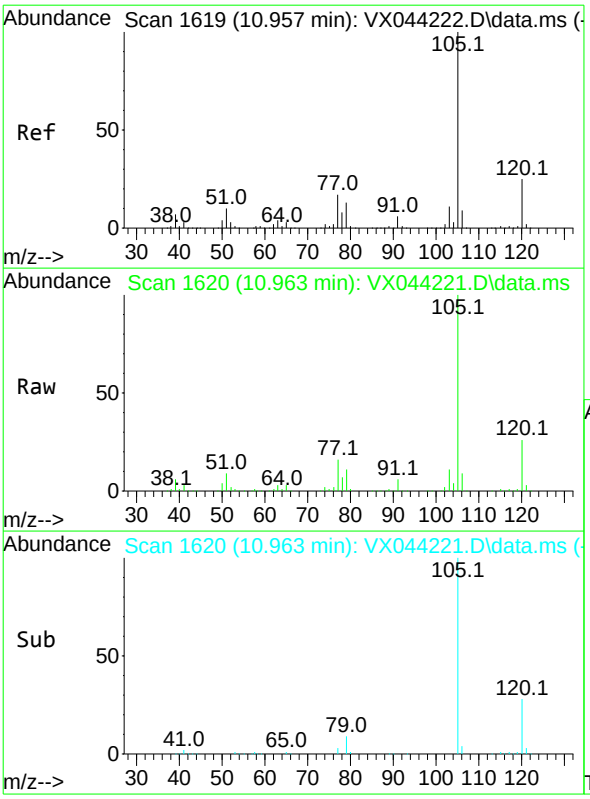


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:152 Resp: 98180

Ion	Ratio	Lower	Upper
152	100		
115	74.8	44.5	133.3
150	164.2	0.0	353.8

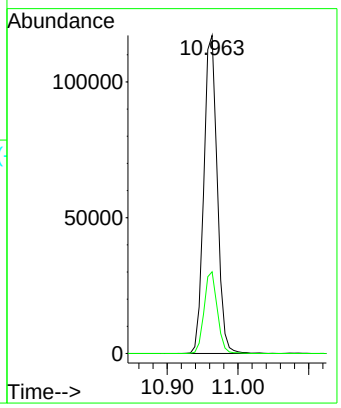




#73
Isopropylbenzene
Concen: 20.481 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:105 Resp: 153935

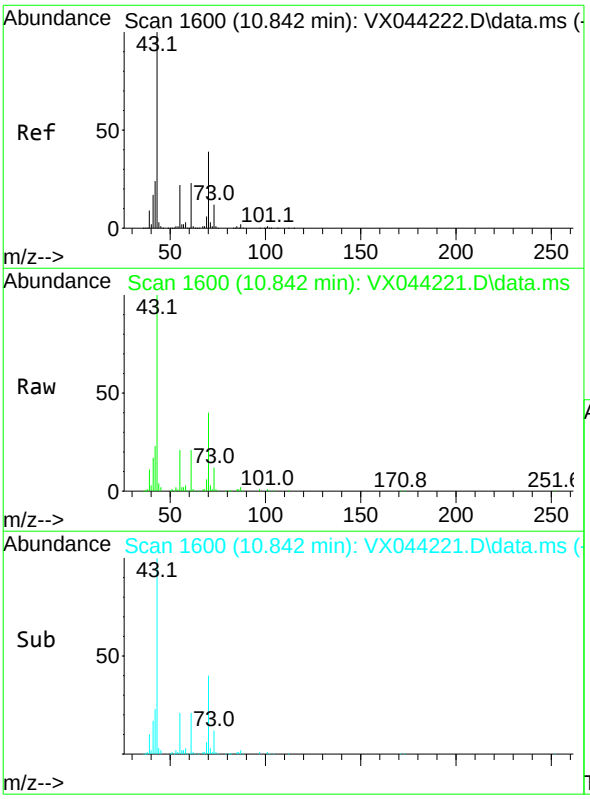
Ion	Ratio	Lower	Upper
105	100		
120	25.3	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

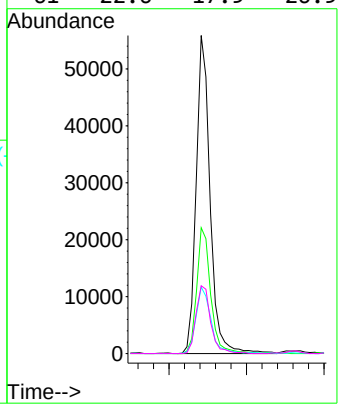
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

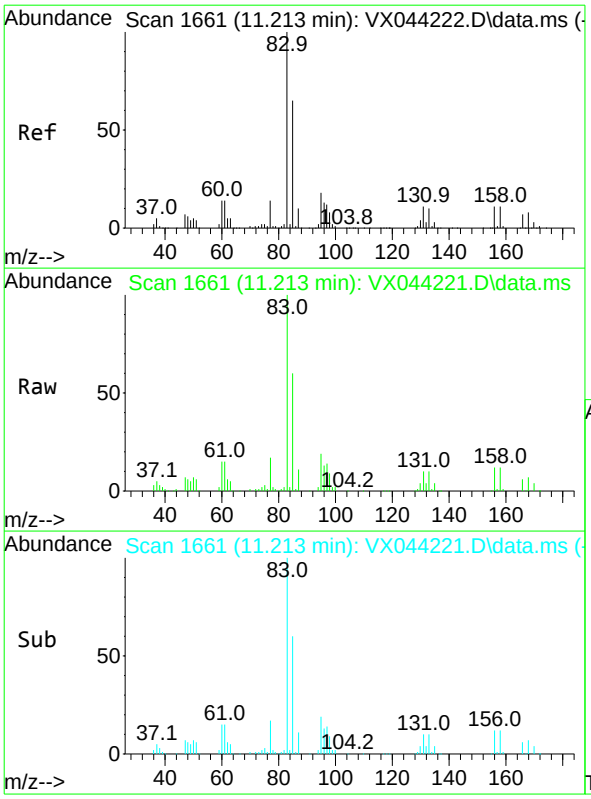


#74
N-amyl acetate
Concen: 20.049 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 69643

Ion	Ratio	Lower	Upper
43	100		
70	39.8	31.9	47.9
55	22.8	17.9	26.9
61	22.6	17.9	26.9





#75
1,1,2,2-Tetrachloroethane
Concen: 20.039 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

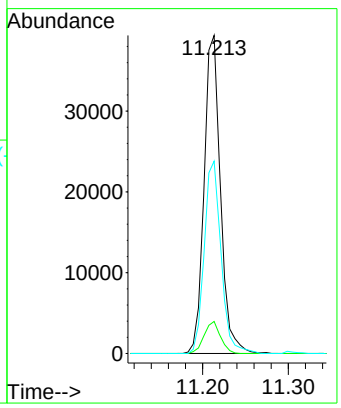
Tgt Ion: 83 Resp: 52312

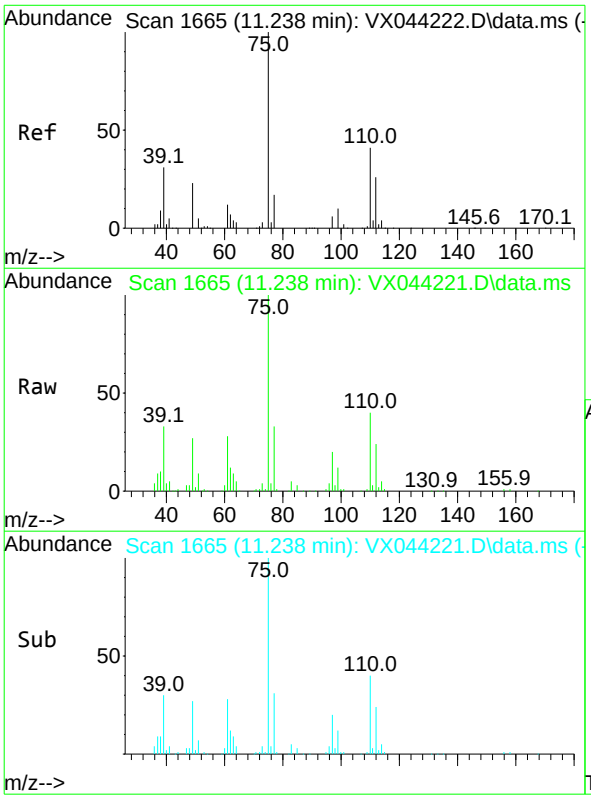
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	62.1	32.5	97.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

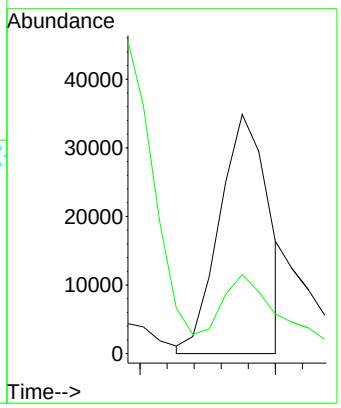


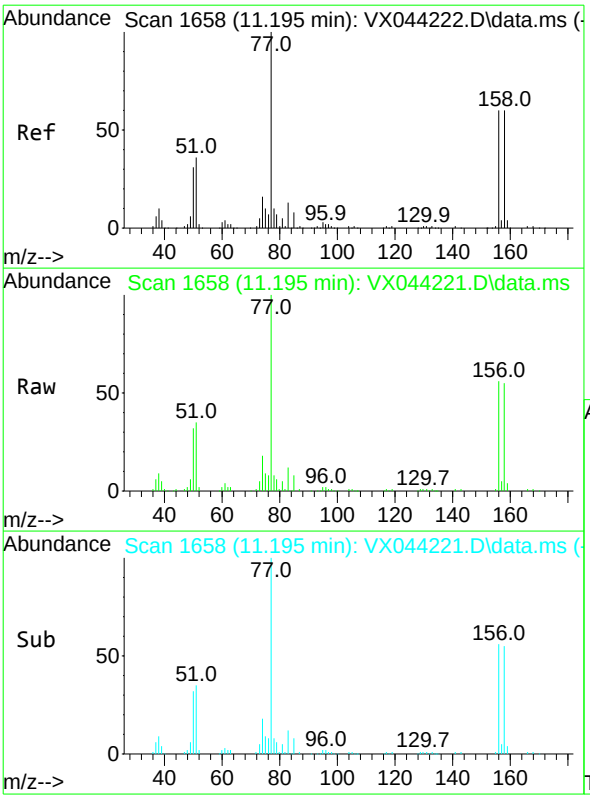


#76
1,2,3-Trichloropropane
Concen: 19.627 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 43726

Ion	Ratio	Lower	Upper
75	100		
77	42.1	20.9	62.7





#77
Bromobenzene
Concen: 19.176 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

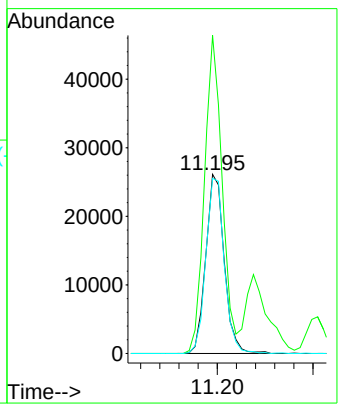
Tgt Ion:156 Resp: 34951

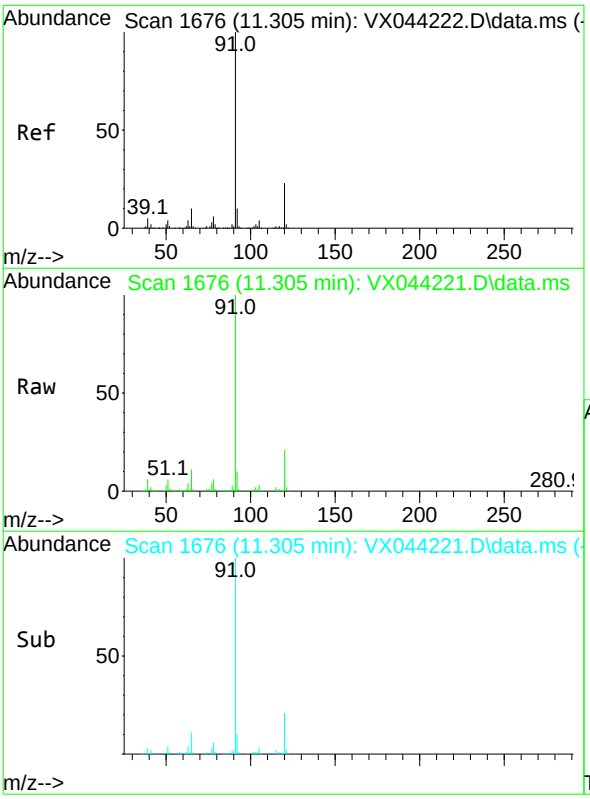
Ion	Ratio	Lower	Upper
156	100		
77	169.4	82.6	247.8
158	98.1	48.8	146.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

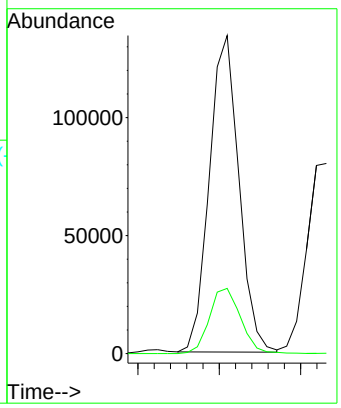


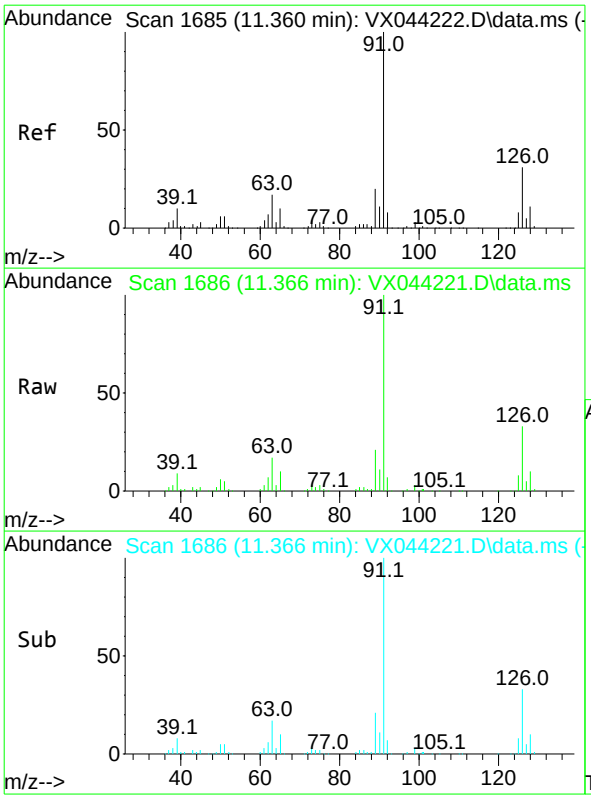


#78
n-propylbenzene
Concen: 20.419 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 91 Resp: 169622

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.0	33.0

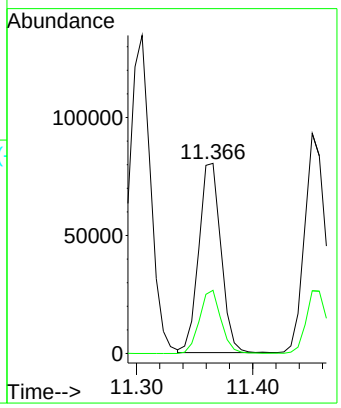




#79
2-Chlorotoluene
Concen: 19.788 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 91 Resp: 106310

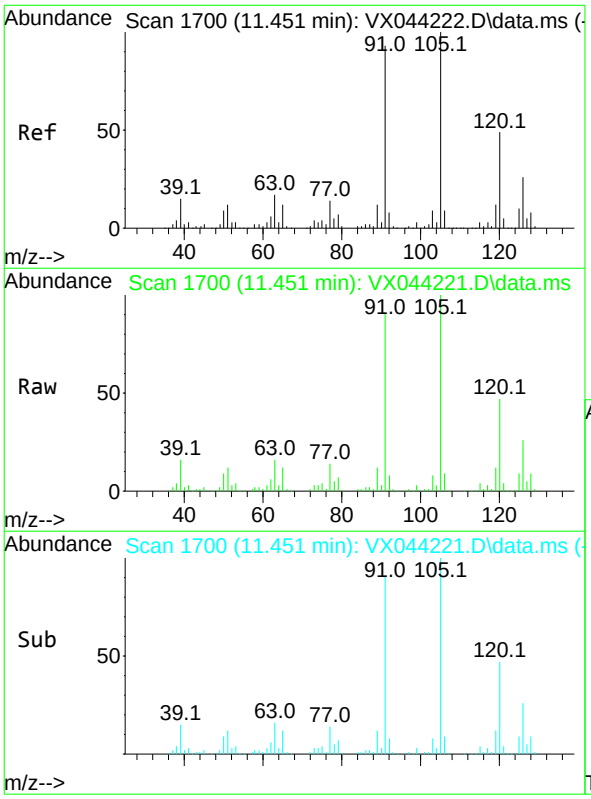
Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

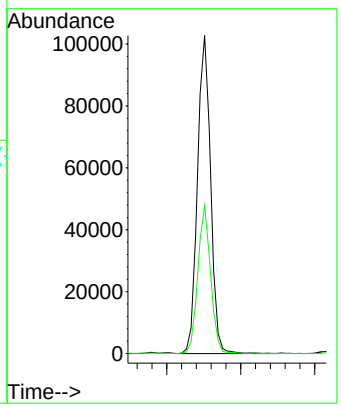
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

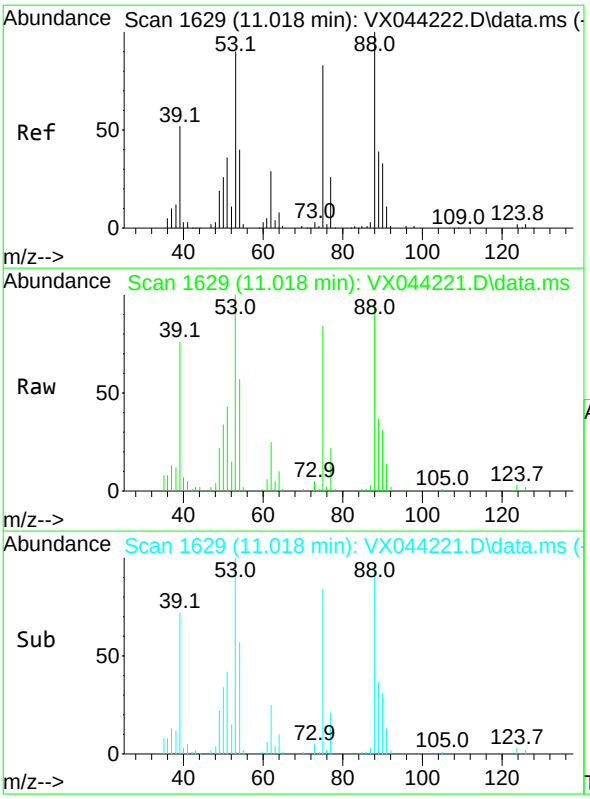


#80
1,3,5-Trimethylbenzene
Concen: 20.315 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:105 Resp: 126626

Ion	Ratio	Lower	Upper
105	100		
120	45.4	23.8	71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 19.264 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

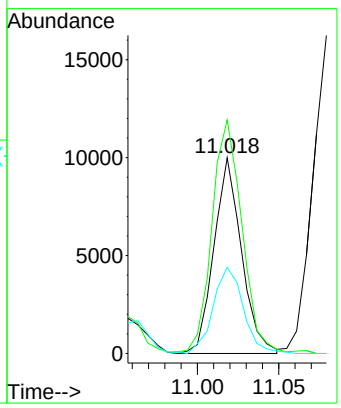
Tgt Ion: 75 Resp: 11784

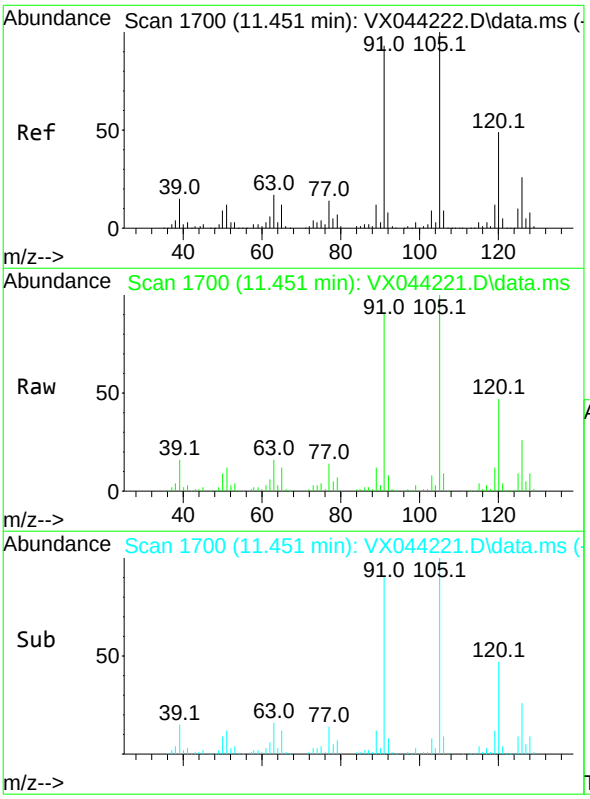
Ion	Ratio	Lower	Upper
75	100		
53	130.8	93.6	140.4
89	48.1	37.3	55.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

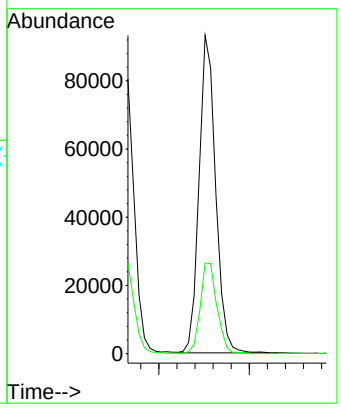


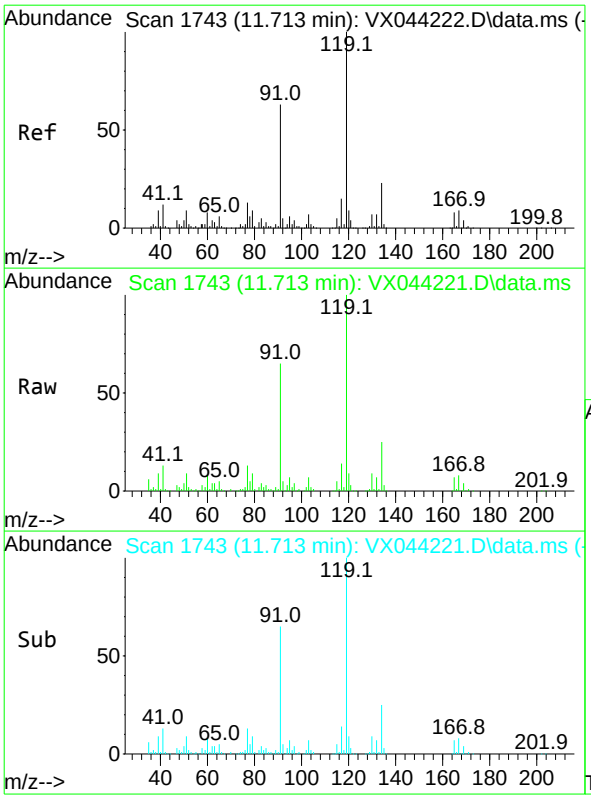


#82
4-Chlorotoluene
Concen: 19.886 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 91 Resp: 118309

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.5	43.5

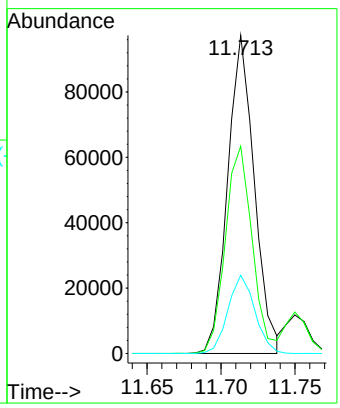




#83
tert-Butylbenzene
Concen: 19.794 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:119 Resp: 121929

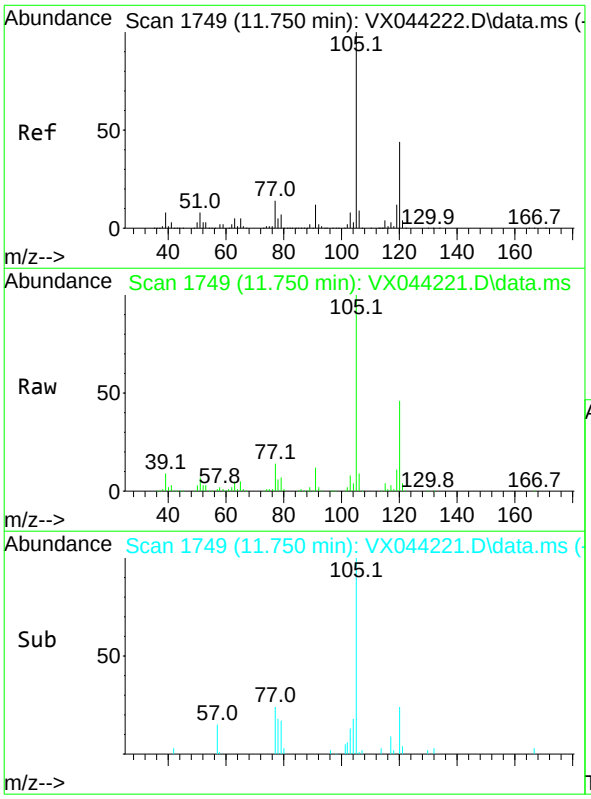
Ion	Ratio	Lower	Upper
119	100		
91	66.0	30.9	92.5
134	24.8	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

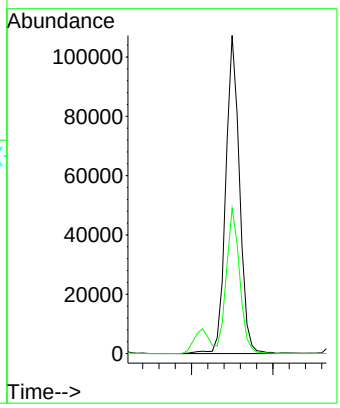
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

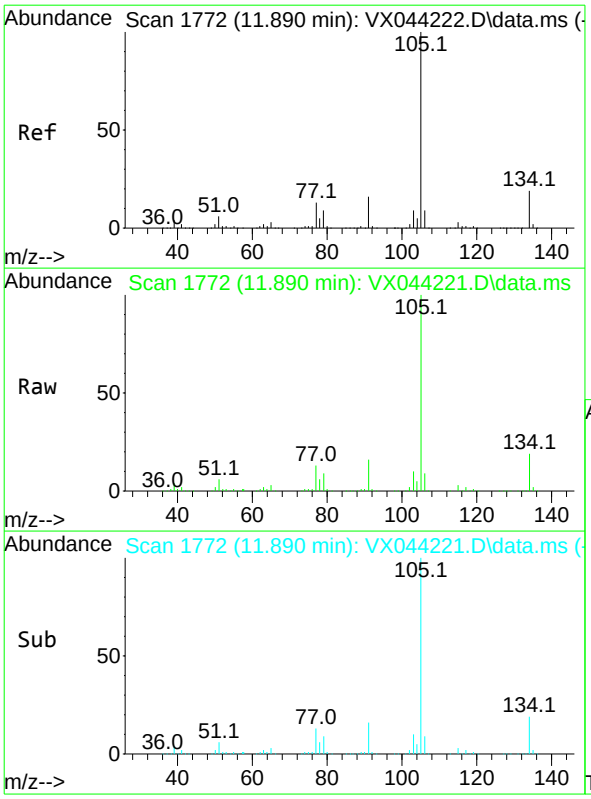


#84
1,2,4-Trimethylbenzene
Concen: 20.574 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:105 Resp: 125939

Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.7	65.1

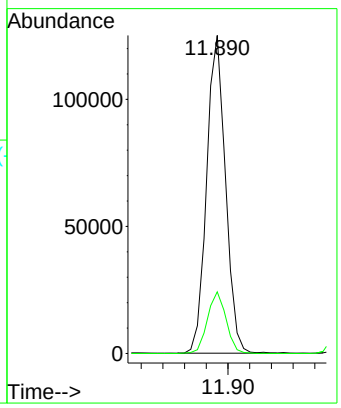




#85
sec-Butylbenzene
Concen: 20.165 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:105 Resp: 150795

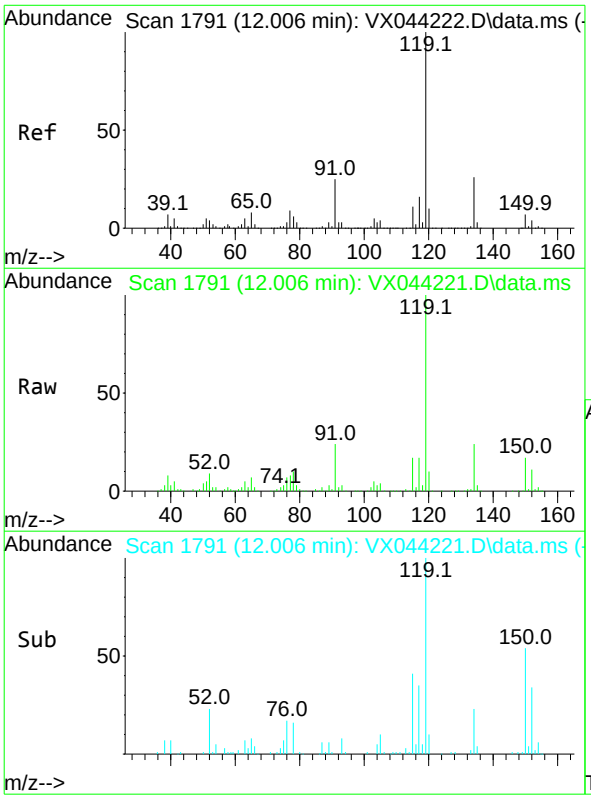
Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

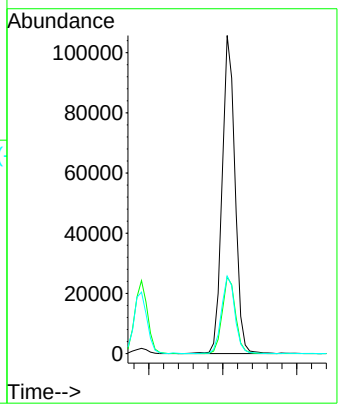
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

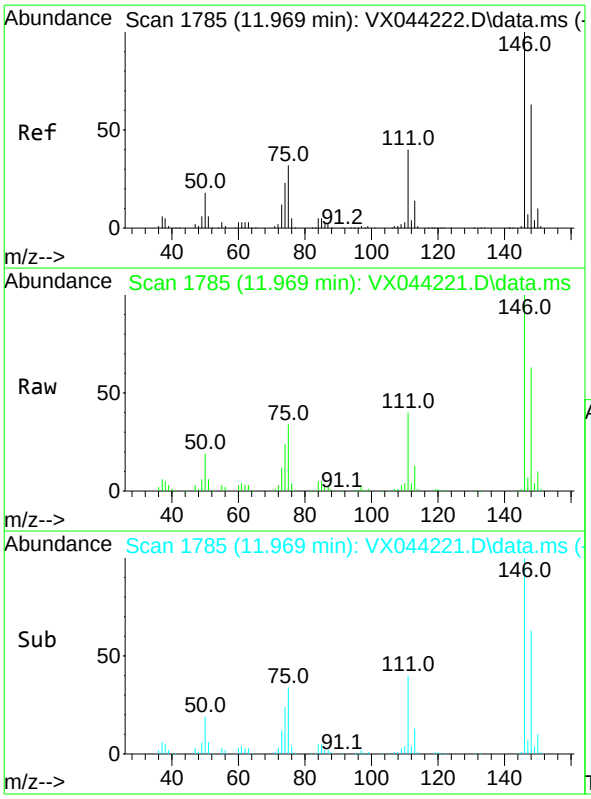


#86
p-Isopropyltoluene
Concen: 20.532 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:119 Resp: 127790

Ion	Ratio	Lower	Upper
119	100		
134	24.6	12.8	38.4
91	25.4	13.0	39.0





#87
1,3-Dichlorobenzene
Concen: 20.228 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

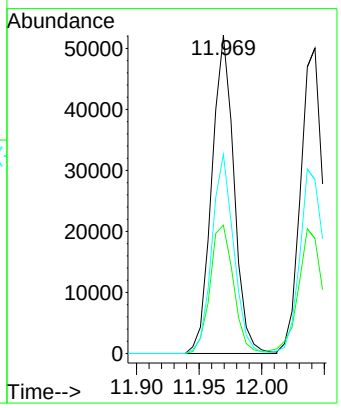
Tgt Ion:146 Resp: 64399

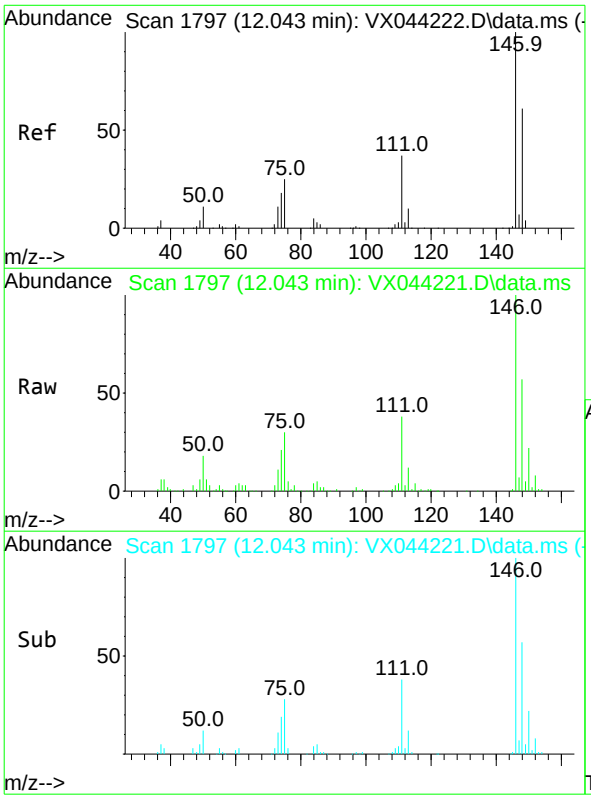
Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.4	64.2
148	61.4	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

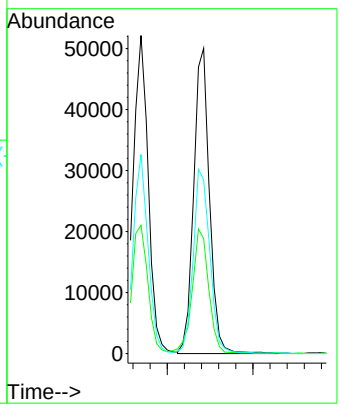


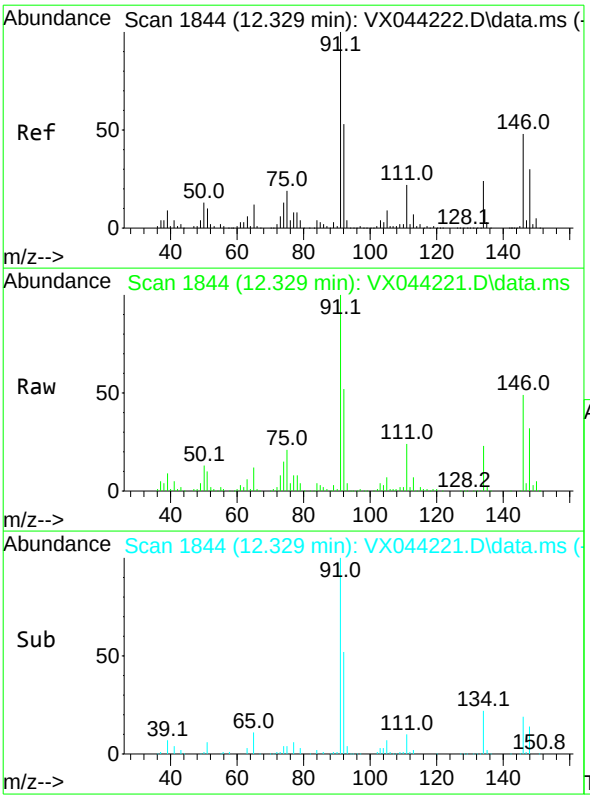


#88
1,4-Dichlorobenzene
Concen: 19.588 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:146 Resp: 64106

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.0	63.0
148	63.2	32.3	96.8





#89
n-Butylbenzene
Concen: 19.950 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

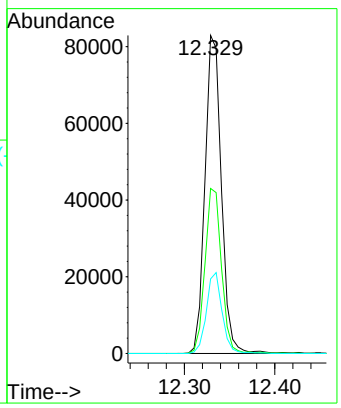
Tgt Ion: 91 Resp: 104410

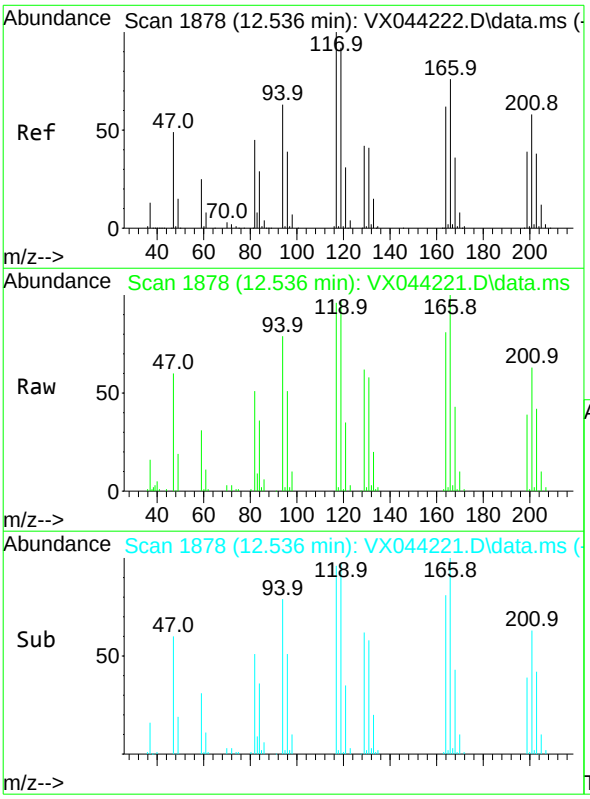
Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.6	79.7
134	24.4	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

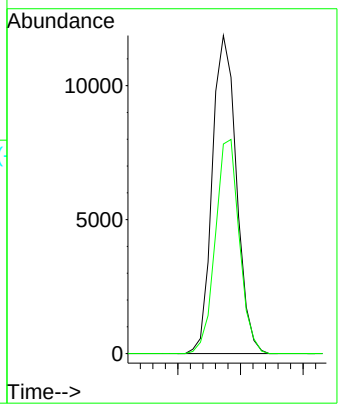


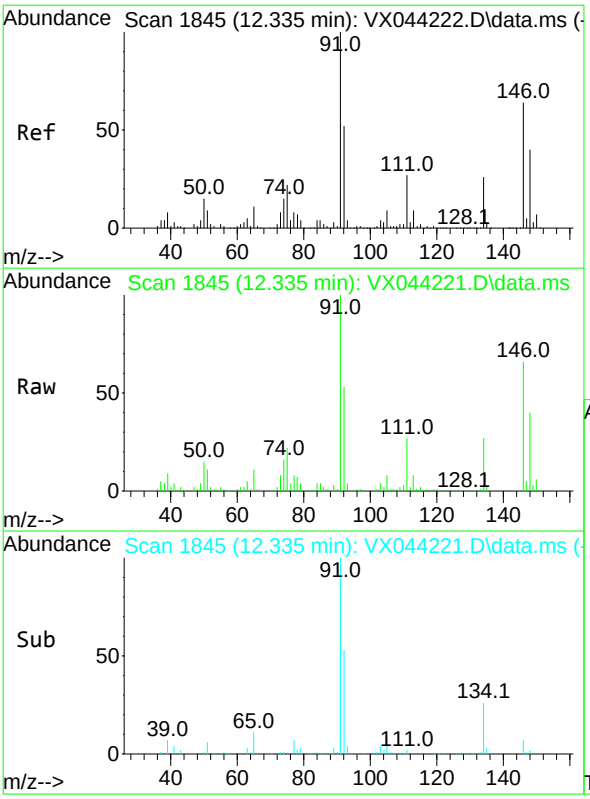


#90
Hexachloroethane
Concen: 17.543 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:117 Resp: 15939

Ion	Ratio	Lower	Upper
117	100		
201	66.8	31.4	94.2





#91
1,2-Dichlorobenzene
Concen: 19.817 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

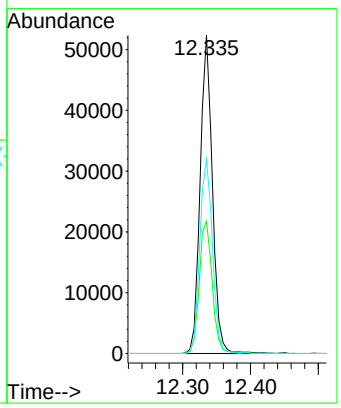
Tgt Ion:146 Resp: 65511

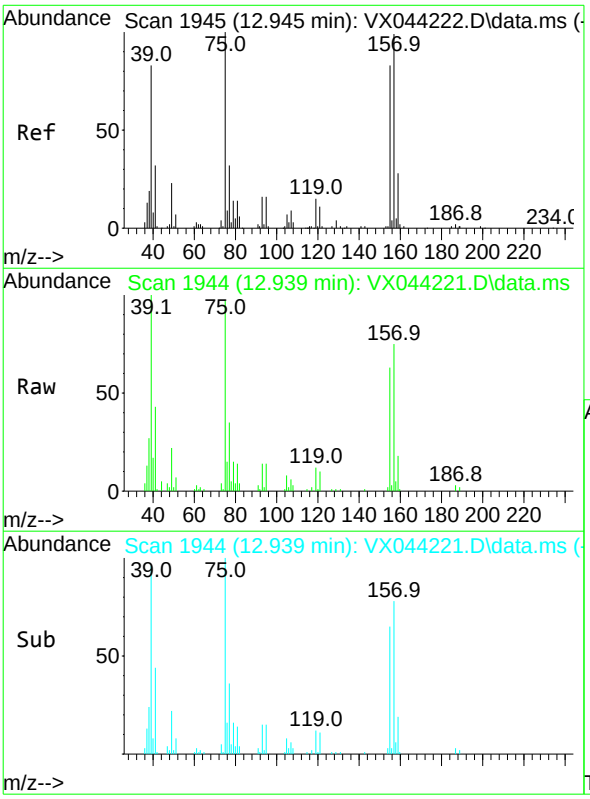
Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.4	64.3
148	63.5	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

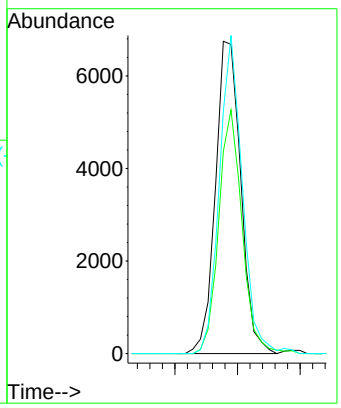


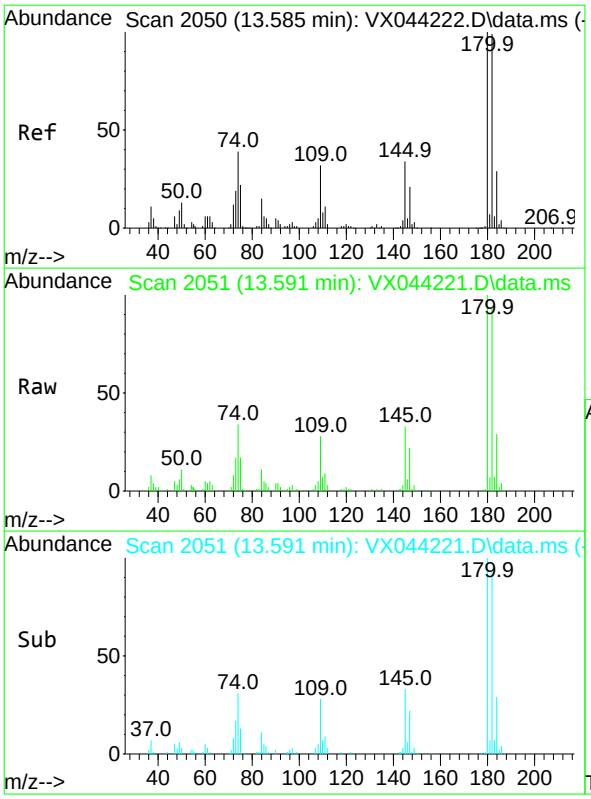


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.683 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 9468

Ion	Ratio	Lower	Upper
75	100		
155	72.1	38.1	114.3
157	92.2	47.2	141.6

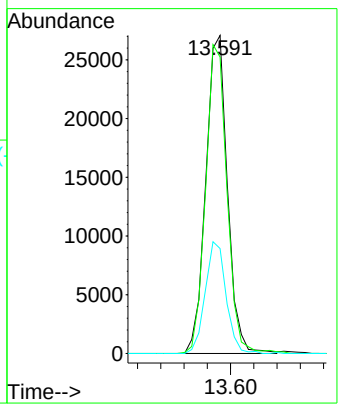




#93
1,2,4-Trichlorobenzene
Concen: 19.313 ug/l
RT: 13.591 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:180 Resp: 35001

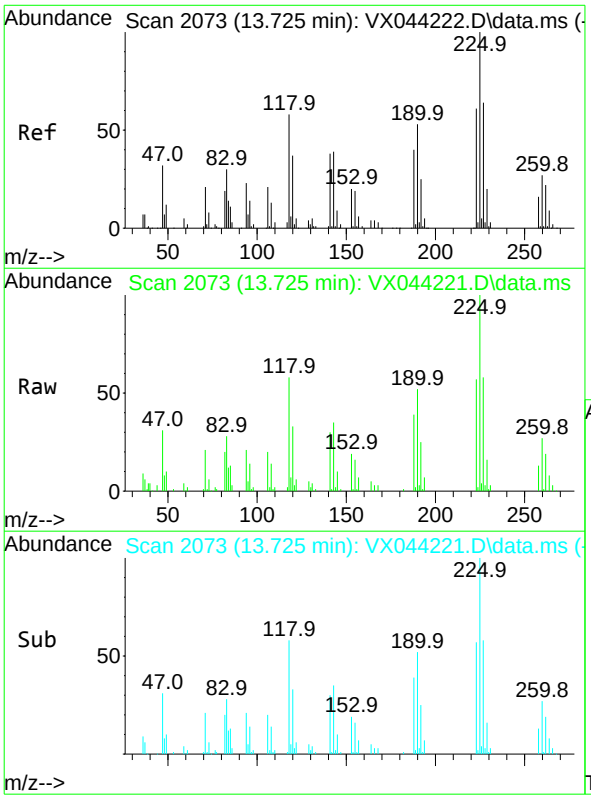
Ion	Ratio	Lower	Upper
180	100		
182	95.7	48.0	144.2
145	33.9	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

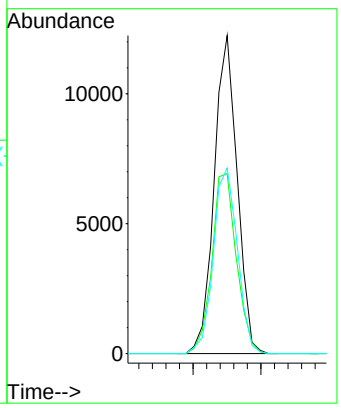
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

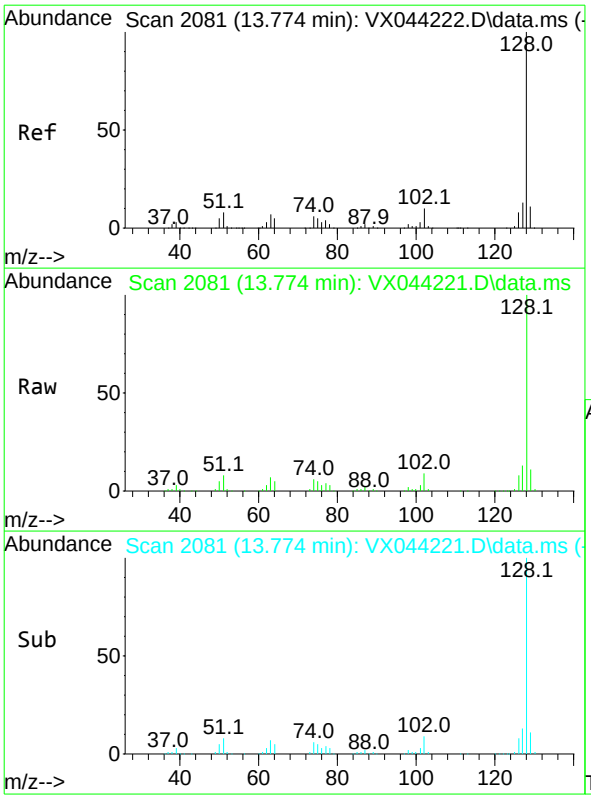


#94
Hexachlorobutadiene
Concen: 19.774 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:225 Resp: 14415

Ion	Ratio	Lower	Upper
225	100		
223	60.5	30.8	92.4
227	60.9	32.1	96.3

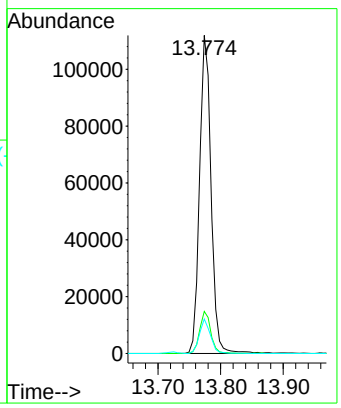




#95
Naphthalene
Concen: 20.146 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:128 Resp: 142515

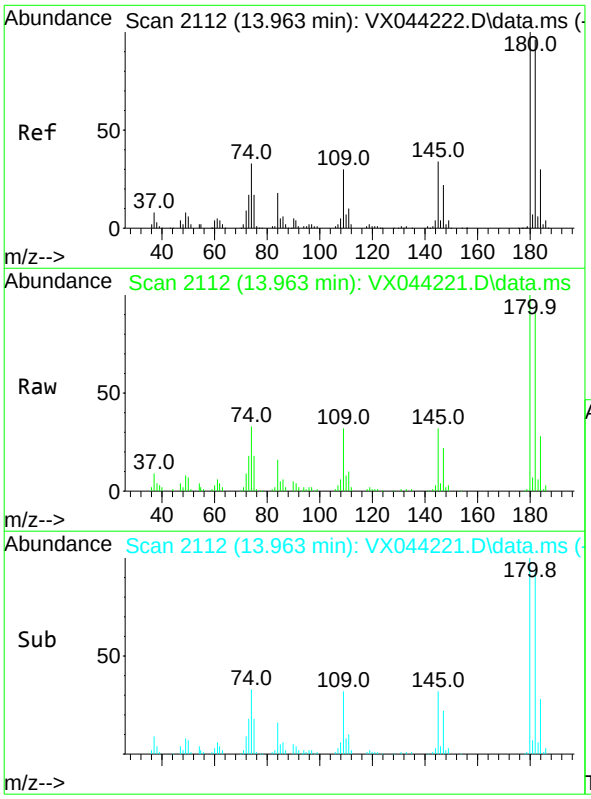
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.4	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

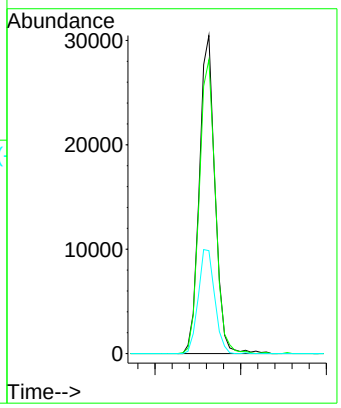
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 20.101 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:180 Resp: 38639

Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.0	144.0
145	34.3	17.7	53.1



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	125713	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	233488	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	205196	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95227	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	115815	52.544	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.080%			
35) Dibromofluoromethane	5.385	113	85656	52.968	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.940%			
50) Toluene-d8	8.647	98	292199	53.559	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.120%			
62) 4-Bromofluorobenzene	11.079	95	103178	54.123	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	99052	50.957	ug/l	100
3) Chloromethane	1.295	50	94981	51.097	ug/l	100
4) Vinyl Chloride	1.374	62	98852	51.045	ug/l	100
5) Bromomethane	1.593	94	69250	50.405	ug/l	100
6) Chloroethane	1.666	64	66862	55.448	ug/l	100
7) Trichlorofluoromethane	1.868	101	193676	51.086	ug/l	100
8) Diethyl Ether	2.136	74	64542	49.875	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	77275	50.371	ug/l	100
10) Methyl Iodide	2.441	142	106509	52.678	ug/l	100
11) Tert butyl alcohol	2.995	59	75690m	244.039	ug/l	
12) 1,1-Dichloroethene	2.307	96	74884	53.143	ug/l	100
13) Acrolein	2.239	56	116171	258.347	ug/l	100
14) Allyl chloride	2.654	41	126925	54.079	ug/l	100
15) Acrylonitrile	3.069	53	225330	261.859	ug/l	100
16) Acetone	2.392	43	239661	266.704	ug/l	100
17) Carbon Disulfide	2.502	76	144624	53.994	ug/l	100
18) Methyl Acetate	2.709	43	119808	51.710	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	289735	52.691	ug/l	100
20) Methylene Chloride	2.782	84	86593	51.305	ug/l	100
21) trans-1,2-Dichloroethene	3.081	96	77834	51.974	ug/l	100
22) Diisopropyl ether	3.764	45	273039	51.662	ug/l	100
23) Vinyl Acetate	3.721	43	1202044	279.754	ug/l	100
24) 1,1-Dichloroethane	3.605	63	156412	53.093	ug/l	100
25) 2-Butanone	4.562	43	344663	269.797	ug/l	100
26) 2,2-Dichloropropane	4.465	77	131428	54.914	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	97013	51.007	ug/l	100
28) Bromochloromethane	4.898	49	74477	51.555	ug/l	100
29) Tetrahydrofuran	5.007	42	212103	258.669	ug/l	100
30) Chloroform	5.087	83	168864	51.017	ug/l	100
31) Cyclohexane	5.465	56	122841	51.637	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	147834	53.806	ug/l	100
36) 1,1-Dichloropropene	5.690	75	103760	49.638	ug/l	100
37) Ethyl Acetate	4.721	43	135753	52.537	ug/l	100
38) Carbon Tetrachloride	5.672	117	117076	52.023	ug/l	100
39) Methylcyclohexane	7.373	83	129697	51.901	ug/l	100
40) Benzene	6.031	78	329154	51.863	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	70427	51.329 ug/l		100
42) 1,2-Dichloroethane	6.086	62	136309	52.138 ug/l		100
43) Isopropyl Acetate	6.342	43	213891	52.961 ug/l		100
44) Trichloroethene	7.123	130	81542	51.521 ug/l		100
45) 1,2-Dichloropropane	7.428	63	83376	51.420 ug/l		100
46) Dibromomethane	7.580	93	66786	53.092 ug/l		100
47) Bromodichloromethane	7.824	83	118634	54.607 ug/l		100
48) Methyl methacrylate	7.696	41	103726	52.909 ug/l		100
49) 1,4-Dioxane	7.671	88	35263m	1052.498 ug/l		
51) 4-Methyl-2-Pentanone	8.574	43	688666	265.203 ug/l		100
52) Toluene	8.714	92	204738	51.370 ug/l		100
53) t-1,3-Dichloropropene	8.976	75	120007	51.362 ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	132286	55.923 ug/l		100
55) 1,1,2-Trichloroethane	9.153	97	83488	52.729 ug/l		100
56) Ethyl methacrylate	9.116	69	134770	53.917 ug/l		100
57) 1,3-Dichloropropane	9.305	76	143044	51.904 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	342592	271.745 ug/l		100
59) 2-Hexanone	9.433	43	512906	272.881 ug/l		100
60) Dibromochloromethane	9.519	129	86352	51.400 ug/l		100
61) 1,2-Dibromoethane	9.604	107	86150	53.454 ug/l		100
64) Tetrachloroethene	9.269	164	65888	48.379 ug/l		100
65) Chlorobenzene	10.080	112	223269	50.779 ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	76867	54.396 ug/l		100
67) Ethyl Benzene	10.189	91	395430	52.050 ug/l		100
68) m/p-Xylenes	10.299	106	290181	104.094 ug/l		100
69) o-Xylene	10.640	106	144247	51.141 ug/l		100
70) Styrene	10.653	104	238379	52.719 ug/l		100
71) Bromoform	10.799	173	50667	51.158 ug/l	#	100
73) Isopropylbenzene	10.957	105	372519	51.100 ug/l		100
74) N-amyl acetate	10.842	43	182491	54.166 ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	127193	50.233 ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	107003m	49.518 ug/l		
77) Bromobenzene	11.195	156	89687	50.734 ug/l		100
78) n-propylbenzene	11.305	91	428741	53.211 ug/l		100
79) 2-Chlorotoluene	11.360	91	263849	50.634 ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	314986	52.102 ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	35119	47.628 ug/l		100
82) 4-Chlorotoluene	11.451	91	296520	51.387 ug/l		100
83) tert-Butylbenzene	11.713	119	310320	51.940 ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	313338	52.776 ug/l		100
85) sec-Butylbenzene	11.890	105	379552	52.329 ug/l		100
86) p-Isopropyltoluene	12.006	119	318721	52.796 ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	160223	51.887 ug/l		100
88) 1,4-Dichlorobenzene	12.043	146	159258	50.171 ug/l		100
89) n-Butylbenzene	12.329	91	270840	53.354 ug/l		100
90) Hexachloroethane	12.536	117	48303	54.813 ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	164342	51.256 ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.945	75	26027	52.951 ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	93173	53.005 ug/l		100
94) Hexachlorobutadiene	13.725	225	35172	49.744 ug/l		100
95) Naphthalene	13.774	128	365234	53.230 ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	97000	52.027 ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

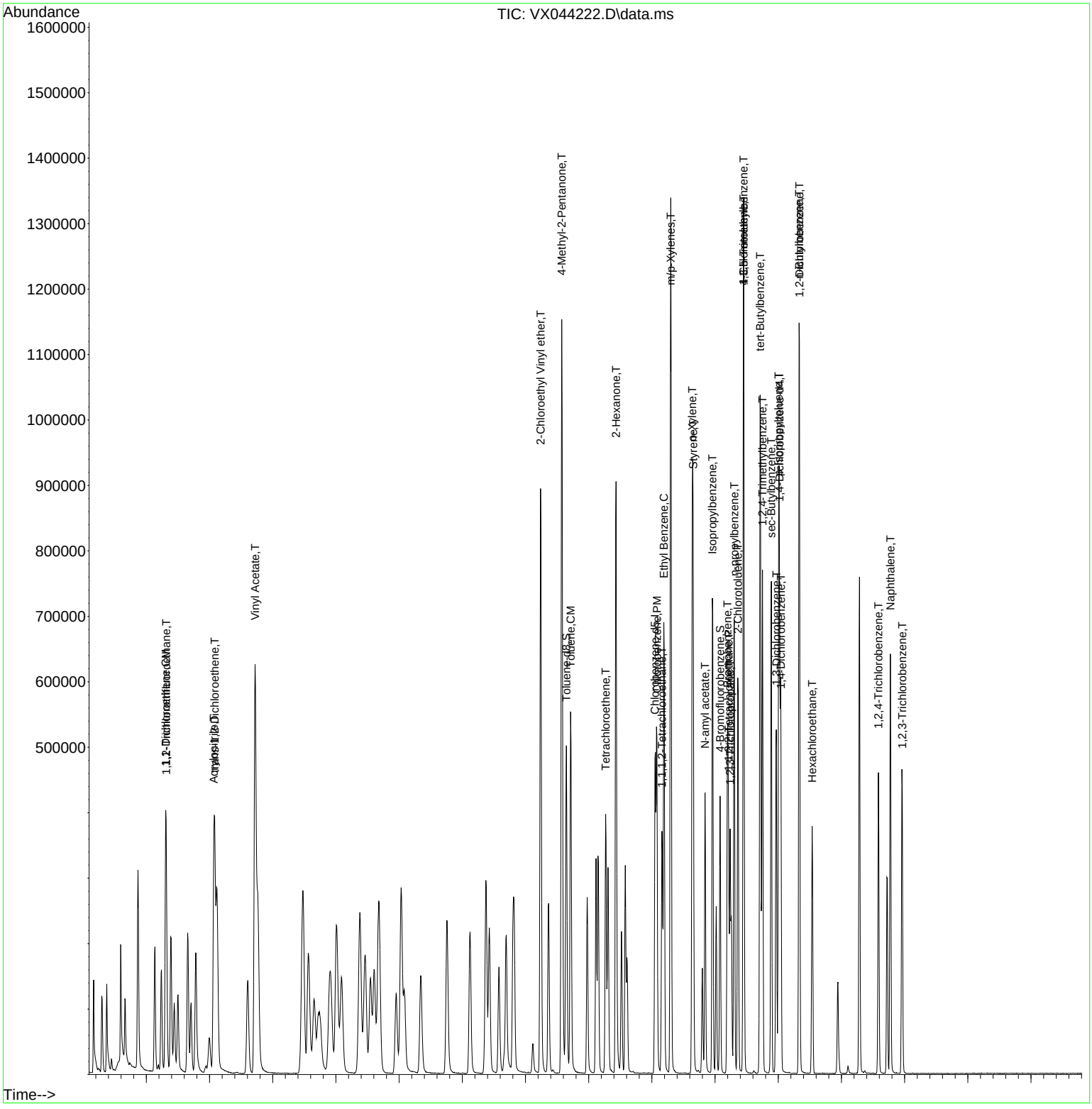
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

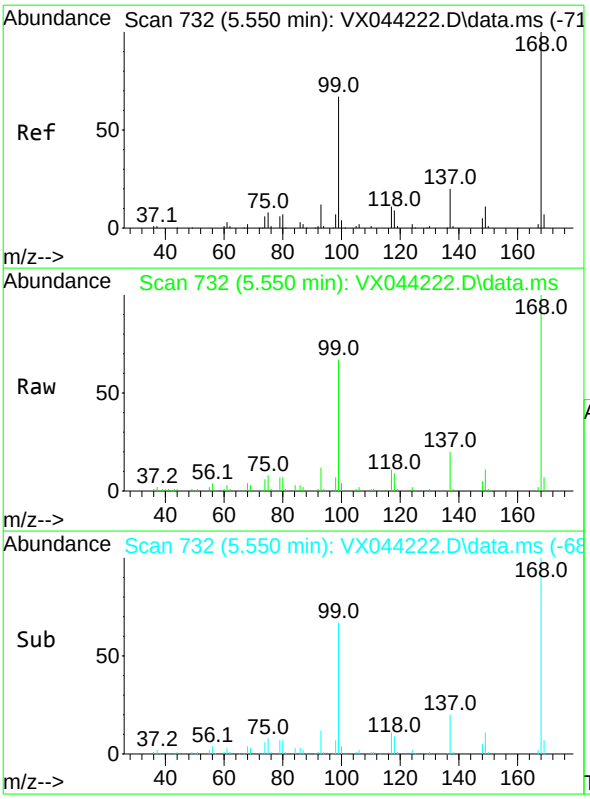
Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

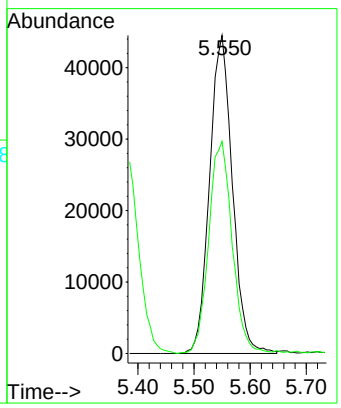




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:168 Resp: 125713

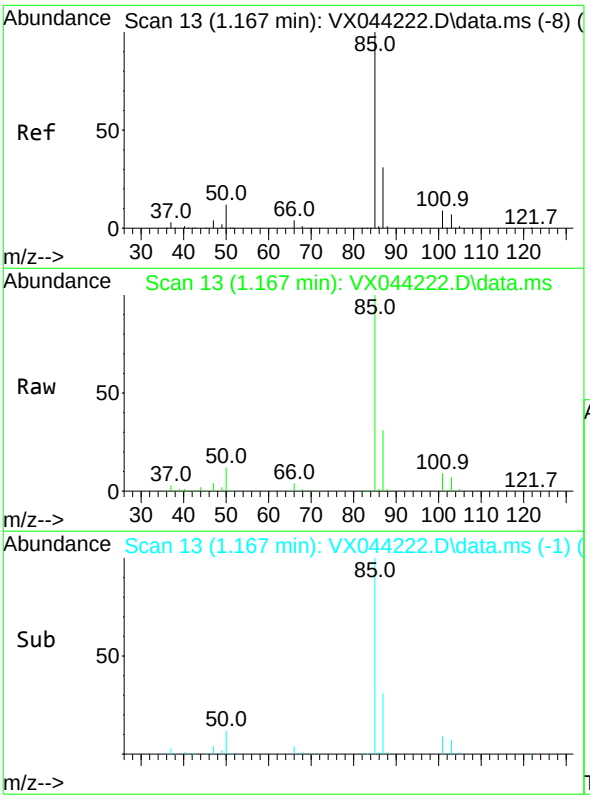
Ion	Ratio	Lower	Upper
168	100		
99	66.7	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

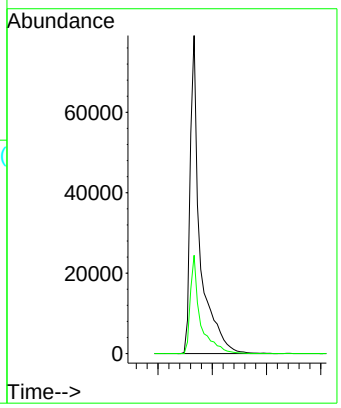
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

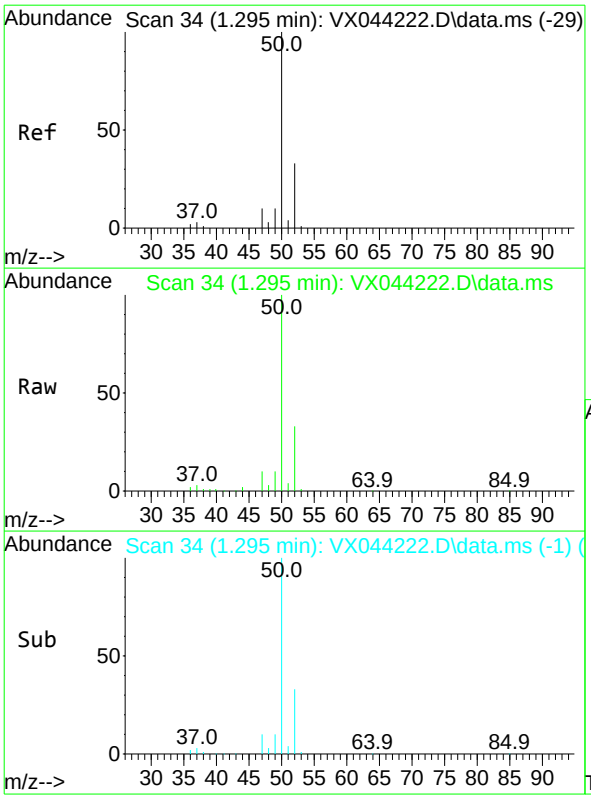


#2
Dichlorodifluoromethane
Concen: 50.957 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 85 Resp: 99052

Ion	Ratio	Lower	Upper
85	100		
87	30.9	15.4	46.4

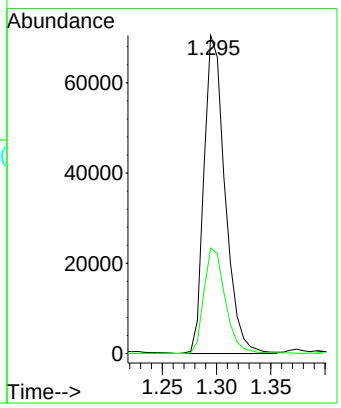




#3
Chloromethane
Concen: 51.097 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 50 Resp: 94981

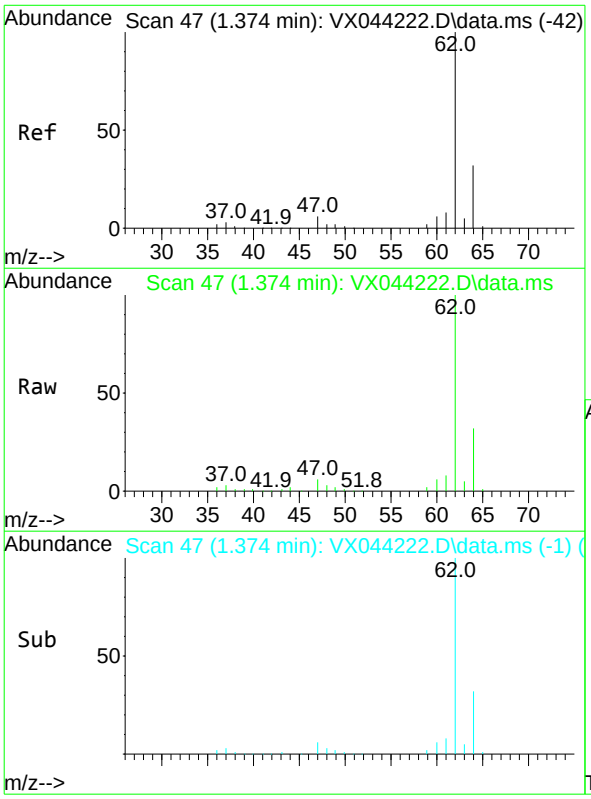
Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

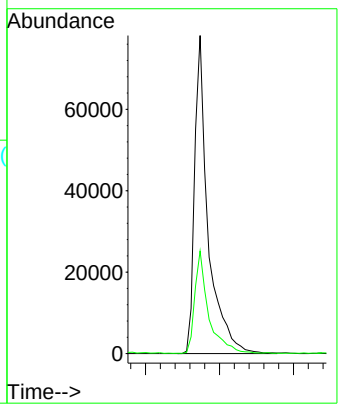
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

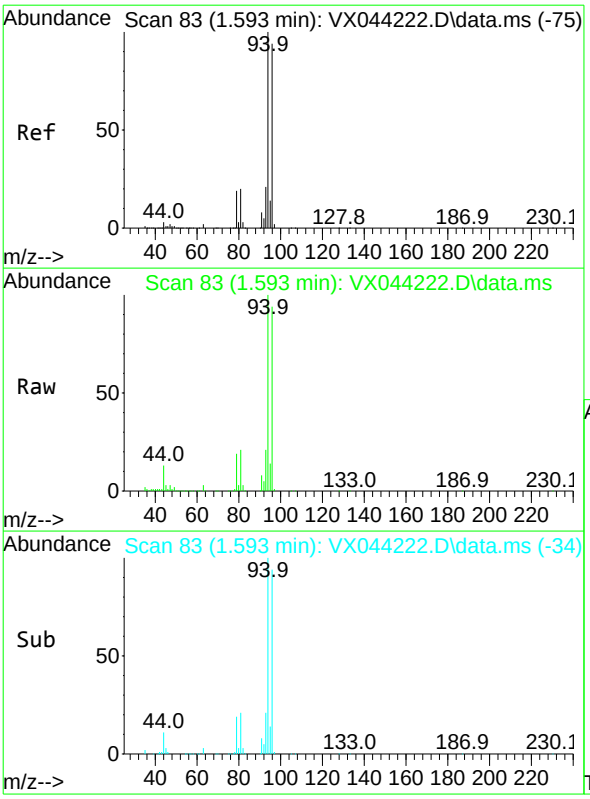


#4
Vinyl Chloride
Concen: 51.045 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 62 Resp: 98852

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.7	38.5

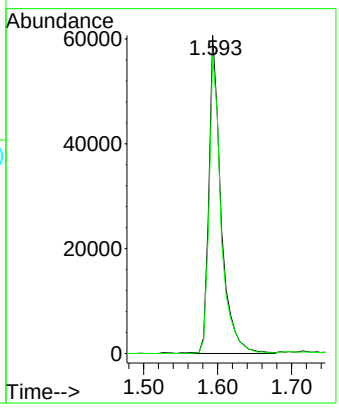




#5
Bromomethane
Concen: 50.405 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 94 Resp: 69250

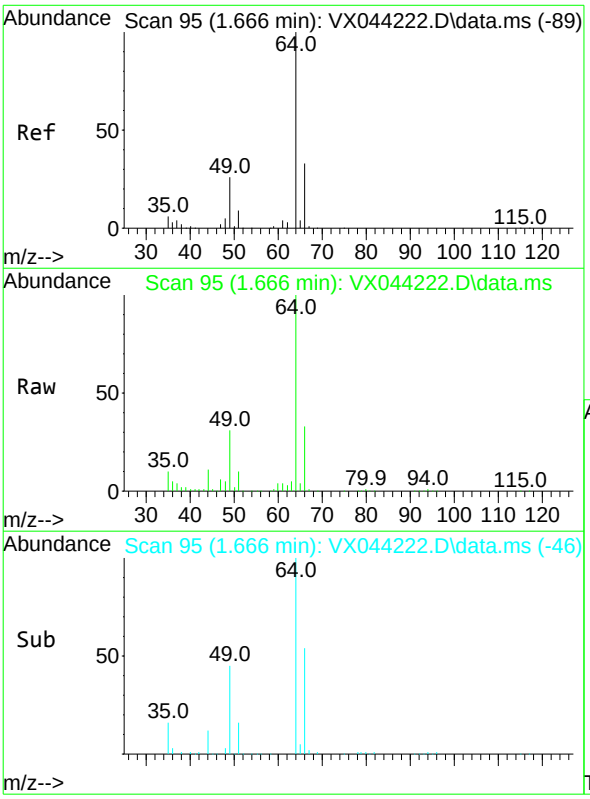
Ion	Ratio	Lower	Upper
94	100		
96	93.6	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

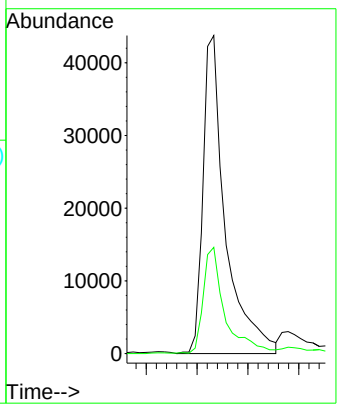
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

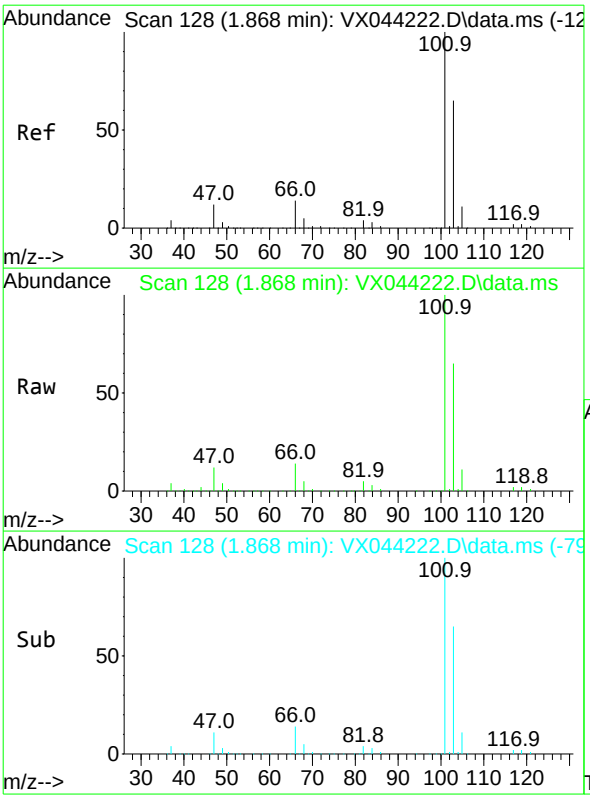


#6
Chloroethane
Concen: 55.448 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 64 Resp: 66862

Ion	Ratio	Lower	Upper
64	100		
66	33.2	26.6	39.8

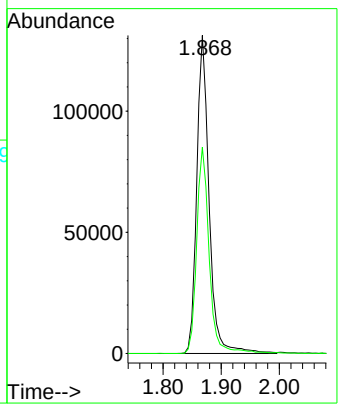




#7
Trichlorofluoromethane
Concen: 51.086 ug/l
RT: 1.868 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:101 Resp: 193676

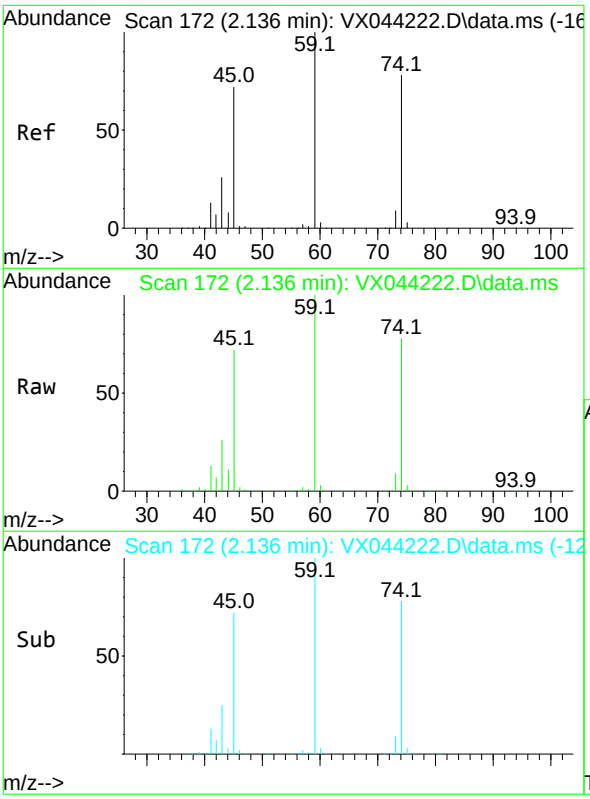
Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

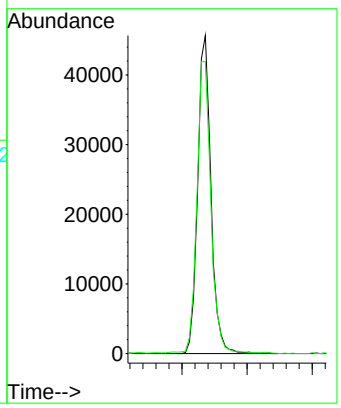
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

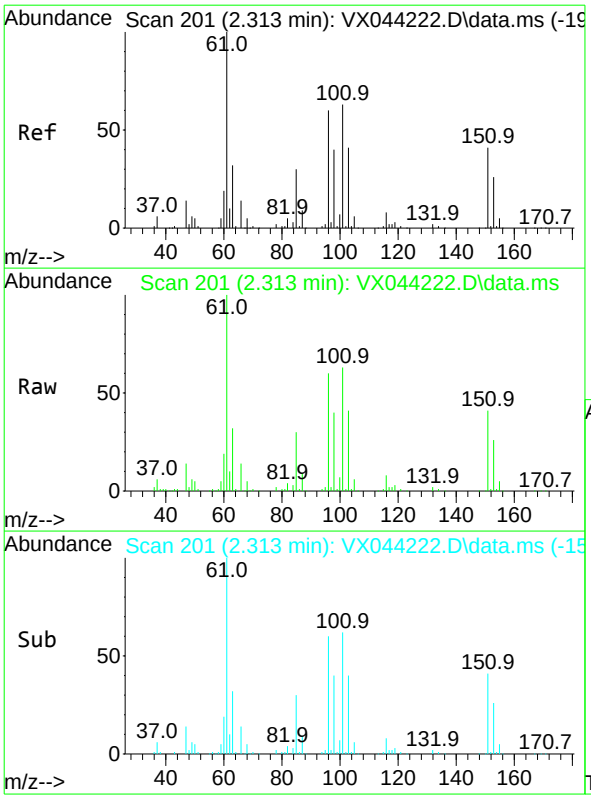


#8
Diethyl Ether
Concen: 49.875 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 74 Resp: 64542

Ion	Ratio	Lower	Upper
74	100		
45	96.7	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.371 ug/l
RT: 2.313 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

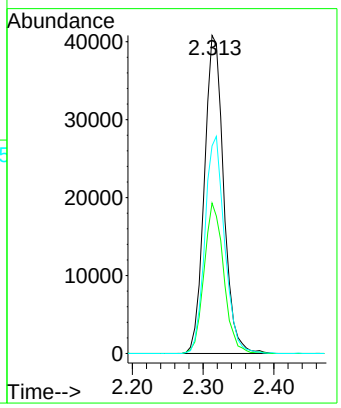
Tgt Ion:101 Resp: 77275

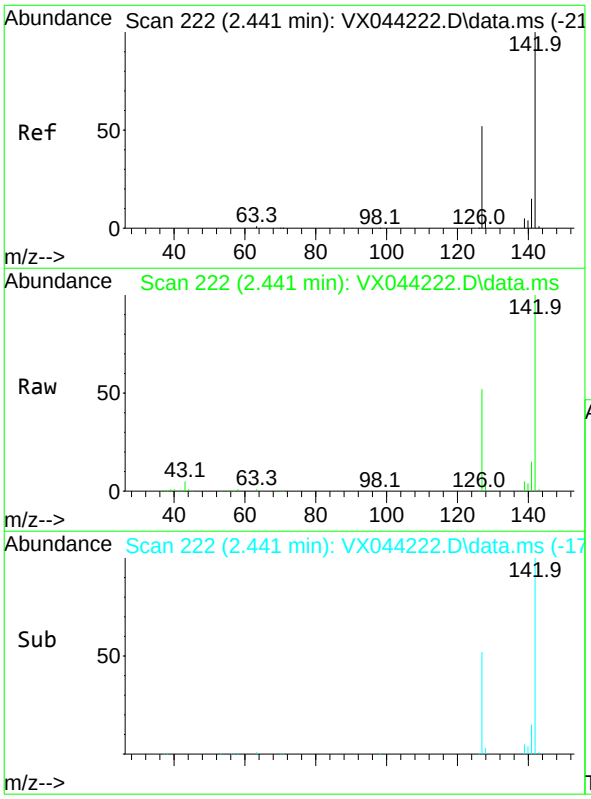
Ion	Ratio	Lower	Upper
101	100		
85	48.1	38.5	57.7
151	69.7	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

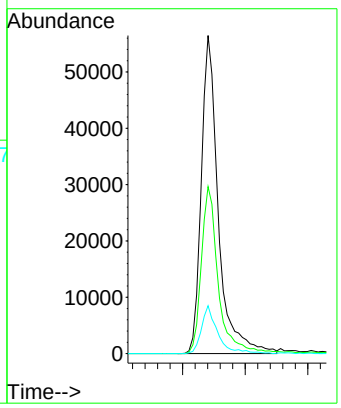


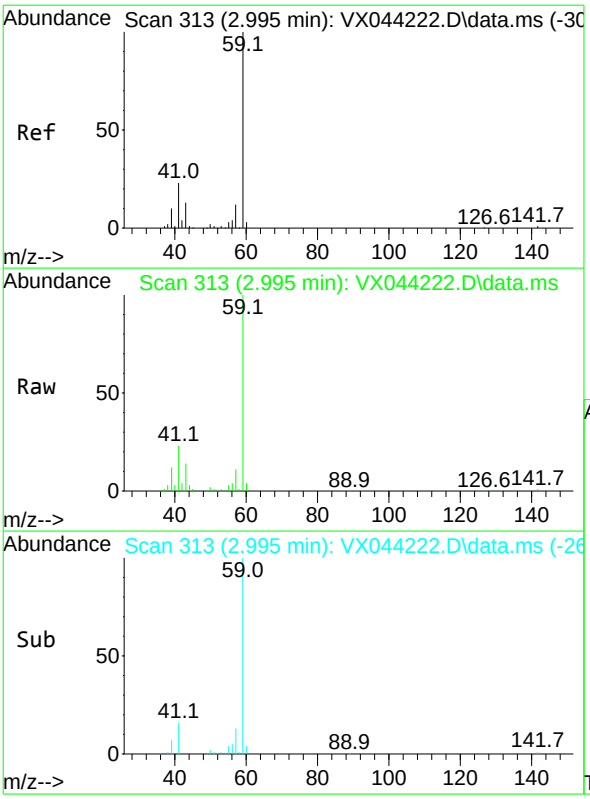


#10
Methyl Iodide
Concen: 52.678 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:142 Resp: 106509

Ion	Ratio	Lower	Upper
142	100		
127	52.3	41.8	62.8
141	14.4	11.5	17.3

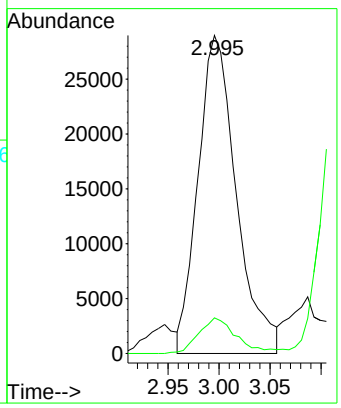




#11
Tert butyl alcohol
Concen: 244.039 ug/l m
RT: 2.995 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 59 Resp: 75690

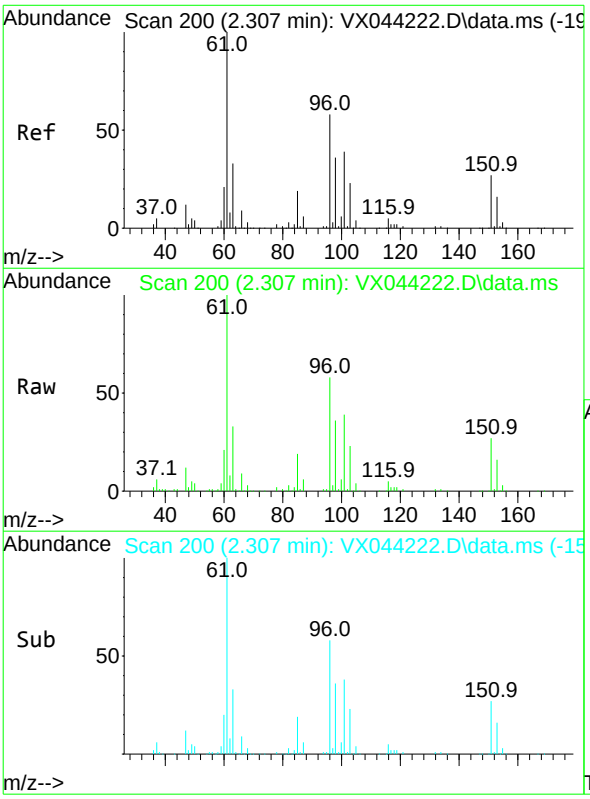
Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

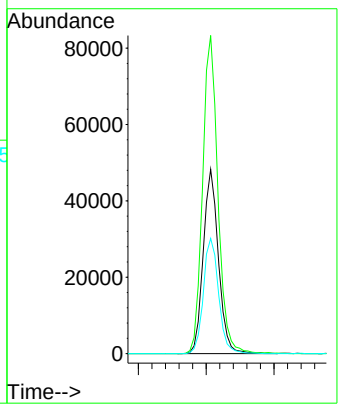
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

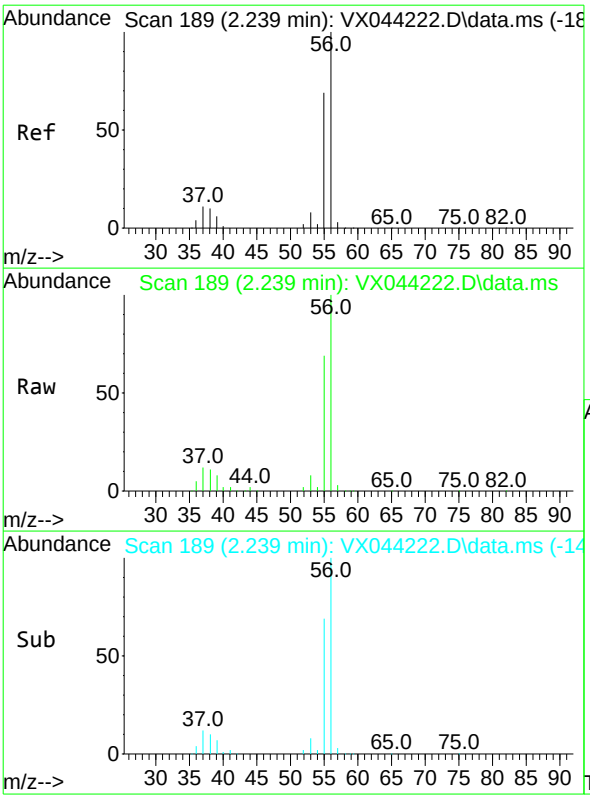


#12
1,1-Dichloroethene
Concen: 53.143 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 96 Resp: 74884

Ion	Ratio	Lower	Upper
96	100		
61	172.5	138.0	207.0
98	62.5	50.0	75.0

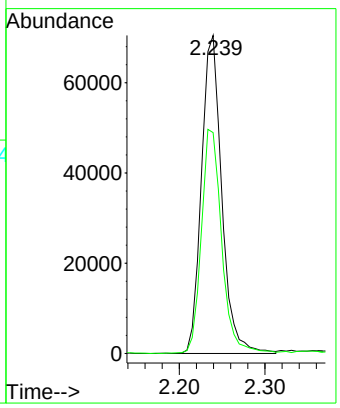




#13
Acrolein
Concen: 258.347 ug/l
RT: 2.239 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 56 Resp: 116171

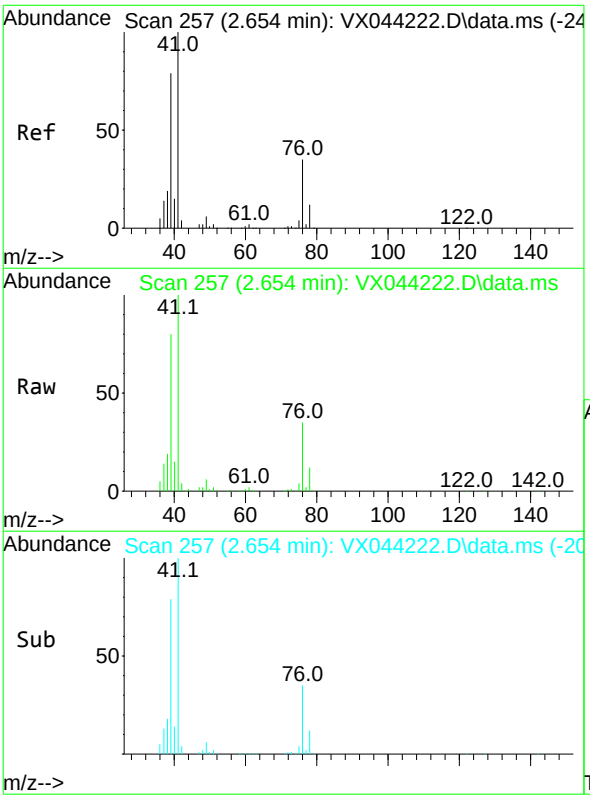
Ion	Ratio	Lower	Upper
56	100		
55	70.7	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

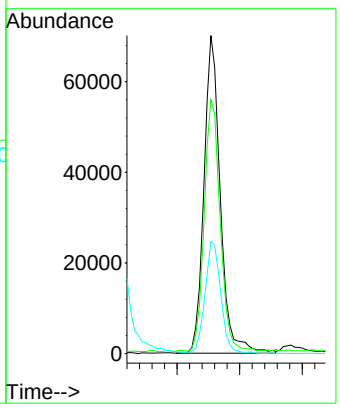
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

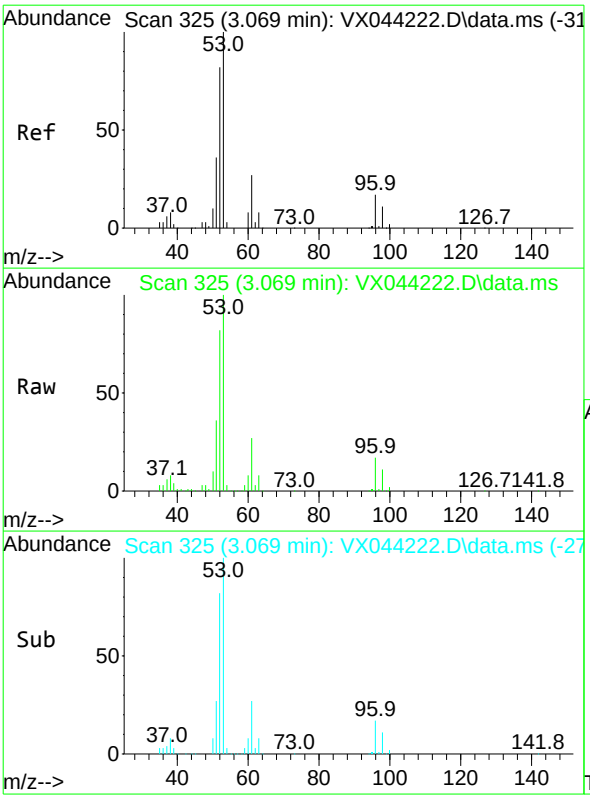


#14
Allyl chloride
Concen: 54.079 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 41 Resp: 126925

Ion	Ratio	Lower	Upper
41	100		
39	77.4	61.9	92.9
76	34.3	27.4	41.2

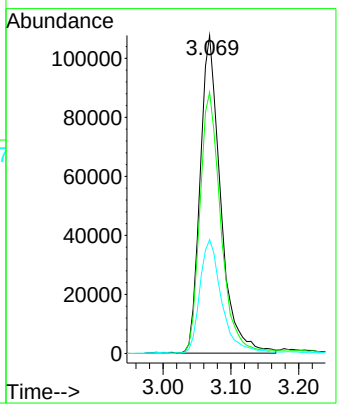




#15
Acrylonitrile
Concen: 261.859 ug/l
RT: 3.069 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 53 Resp: 225330

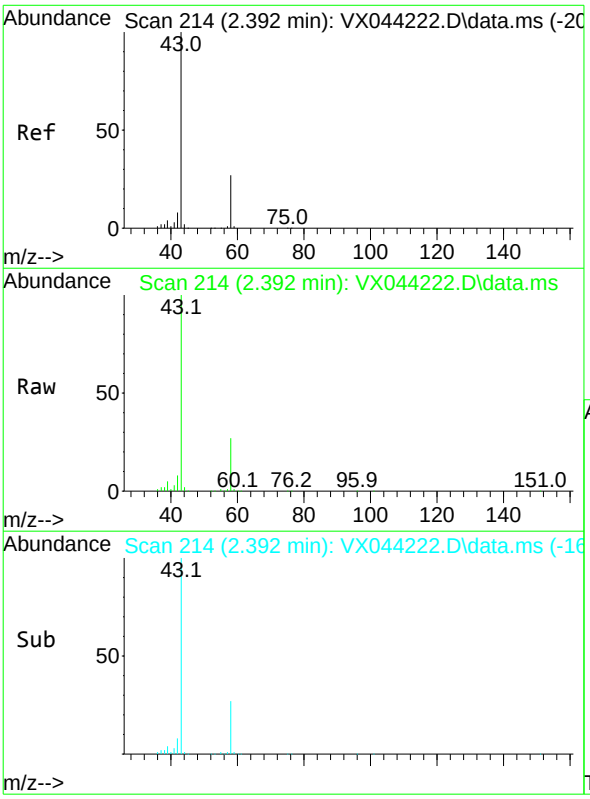
Ion	Ratio	Lower	Upper
53	100		
52	84.2	67.4	101.0
51	37.9	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

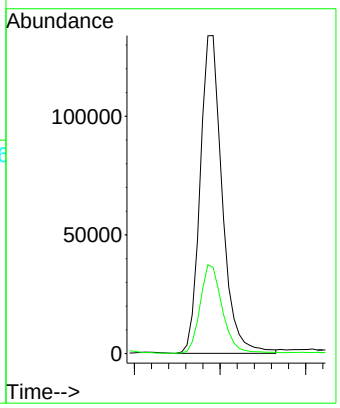
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

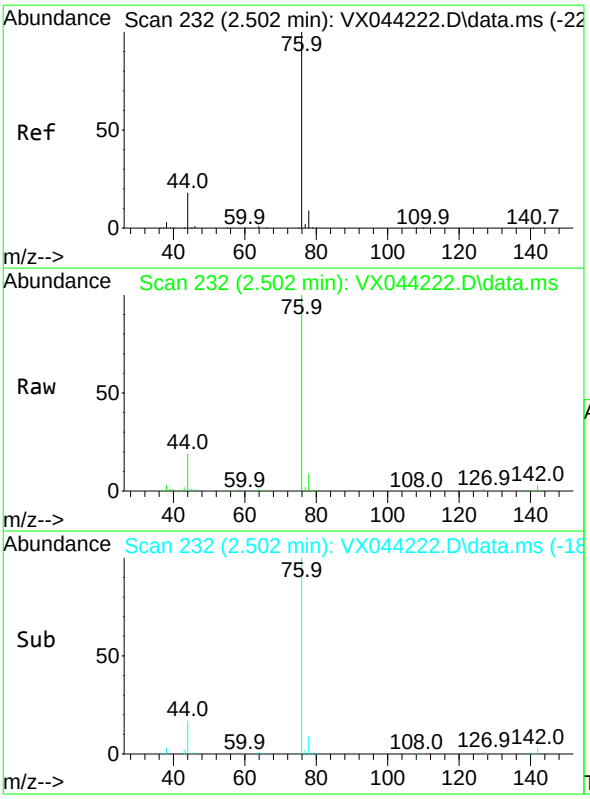


#16
Acetone
Concen: 266.704 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 239661

Ion	Ratio	Lower	Upper
43	100		
58	27.0	21.6	32.4

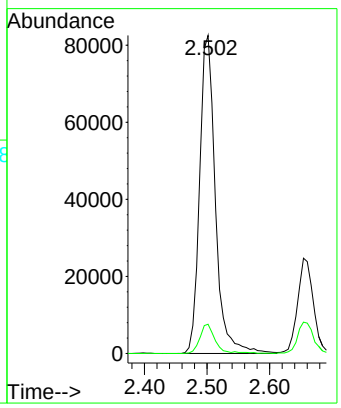




#17
Carbon Disulfide
Concen: 53.994 ug/l
RT: 2.502 min Scan# 23
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 76 Resp: 144624

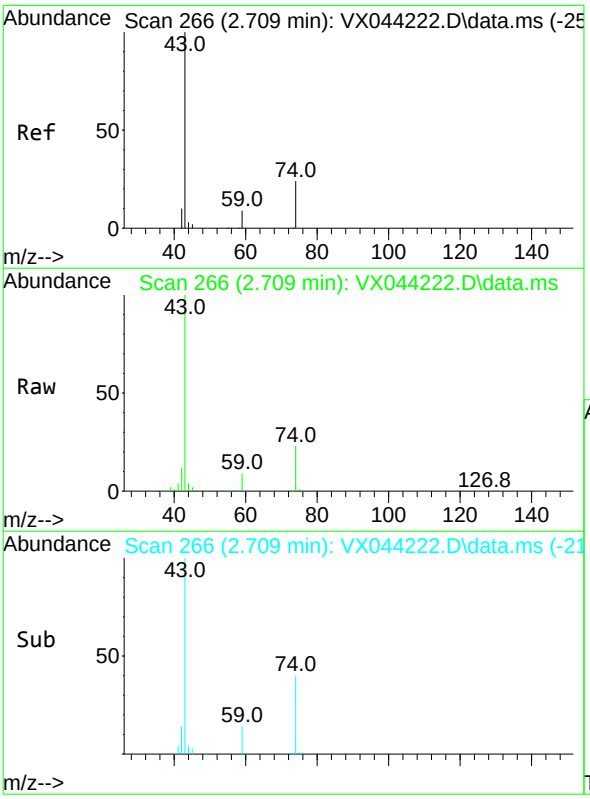
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

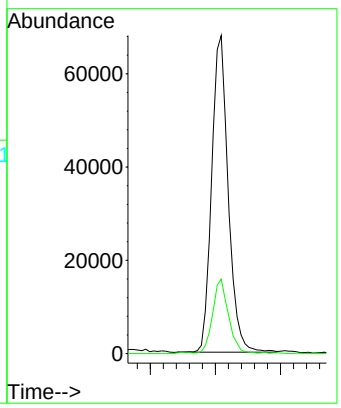
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

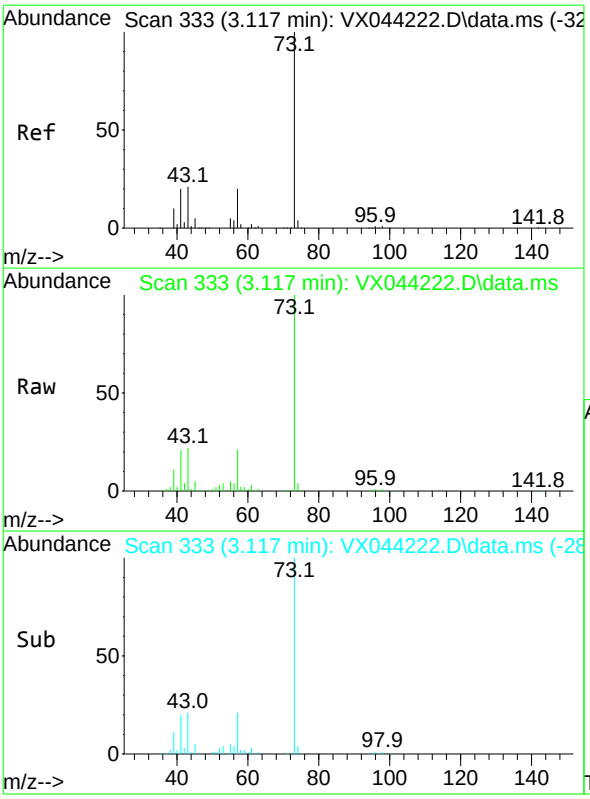


#18
Methyl Acetate
Concen: 51.710 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 119808

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.7	26.5

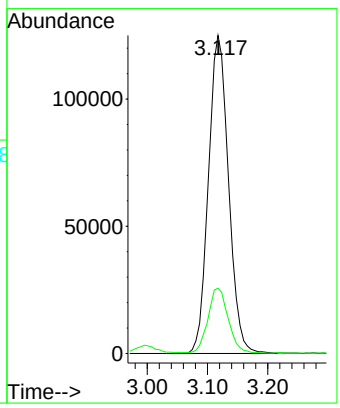




#19
Methyl tert-butyl Ether
Concen: 52.691 ug/l
RT: 3.117 min Scan# 33
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 73 Resp: 289735

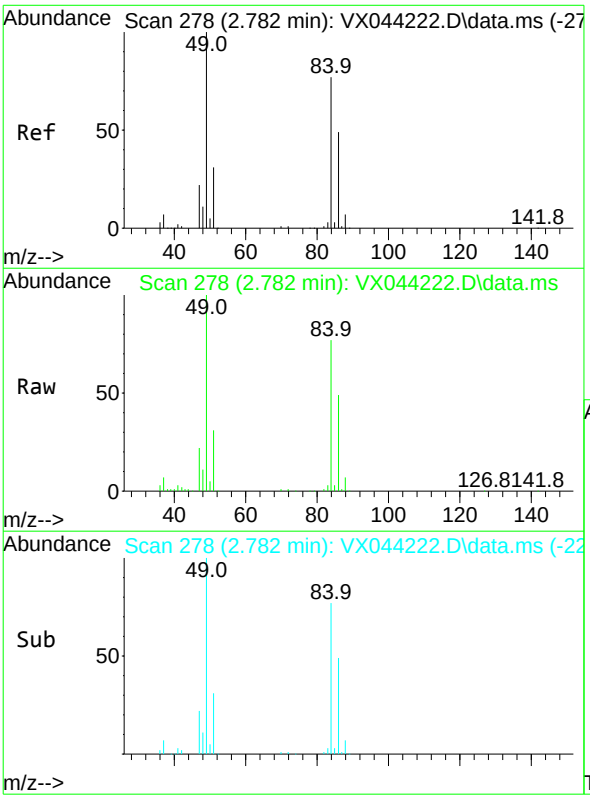
Ion	Ratio	Lower	Upper
73	100		
57	20.3	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

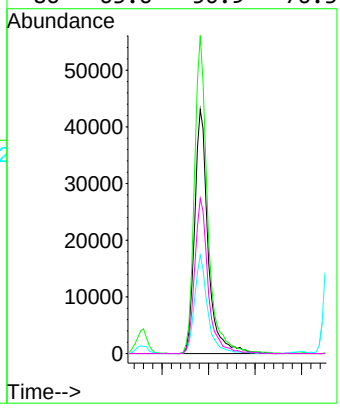
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

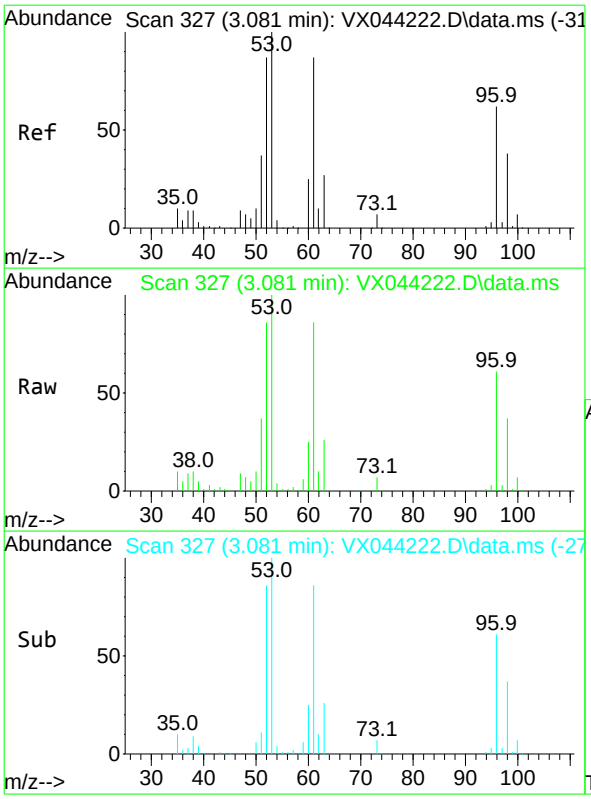


#20
Methylene Chloride
Concen: 51.305 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 84 Resp: 86593

Ion	Ratio	Lower	Upper
84	100		
49	130.3	104.2	156.4
51	40.3	32.2	48.4
86	63.6	50.9	76.3

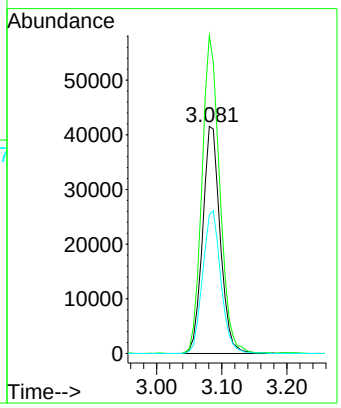




#21
trans-1,2-Dichloroethene
Concen: 51.974 ug/l
RT: 3.081 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 96 Resp: 77834

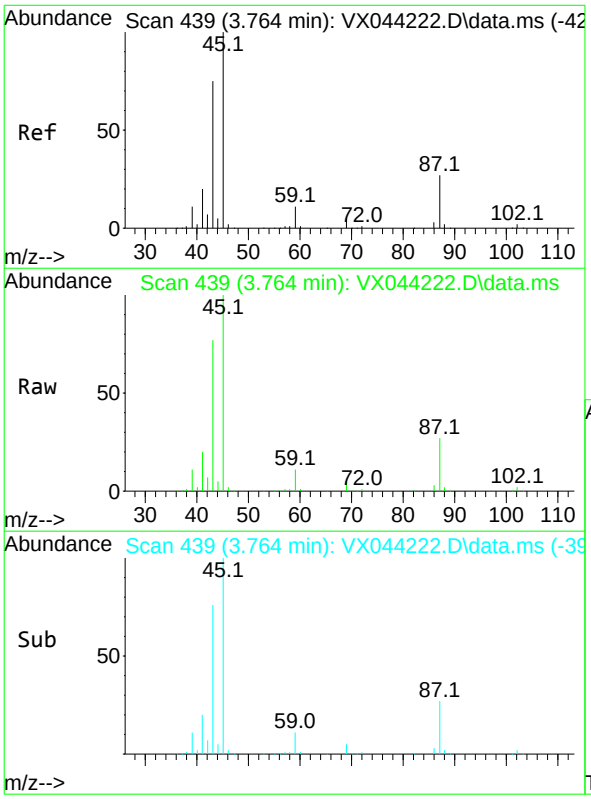
Ion	Ratio	Lower	Upper
96	100		
61	140.0	112.0	168.0
98	61.0	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

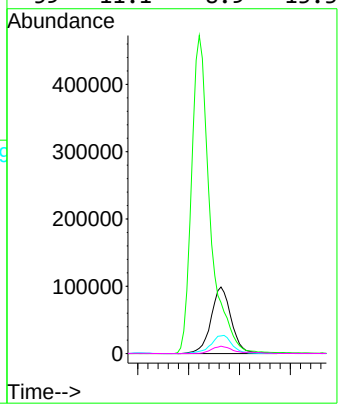
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

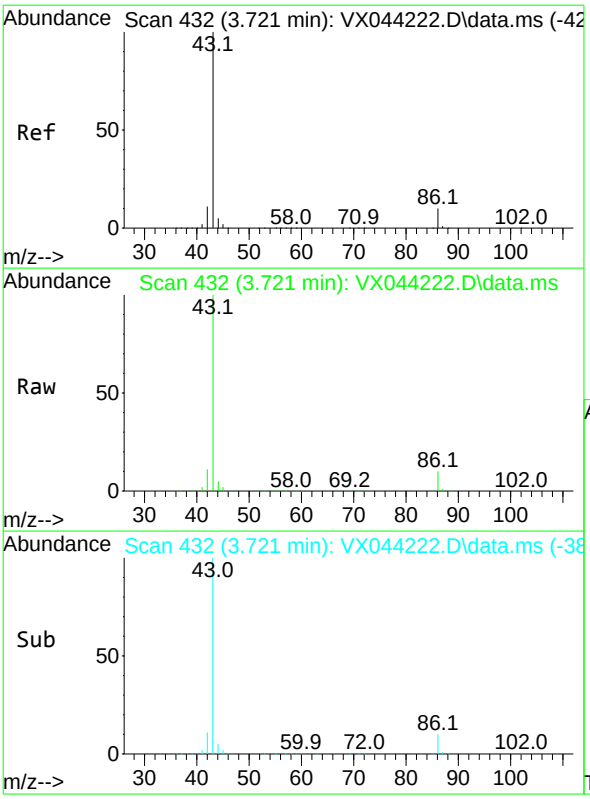


#22
Diisopropyl ether
Concen: 51.662 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 45 Resp: 273039

Ion	Ratio	Lower	Upper
45	100		
43	75.2	60.2	90.2
87	26.5	21.2	31.8
59	11.1	8.9	13.3





#23
Vinyl Acetate
Concen: 279.754 ug/l
RT: 3.721 min Scan# 43
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

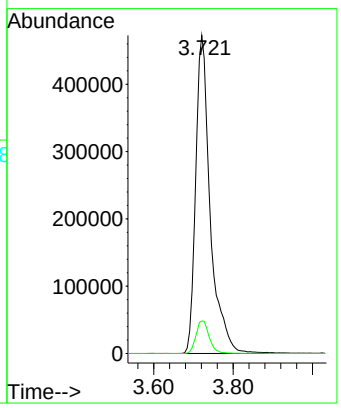
Tgt Ion: 43 Resp: 1202044

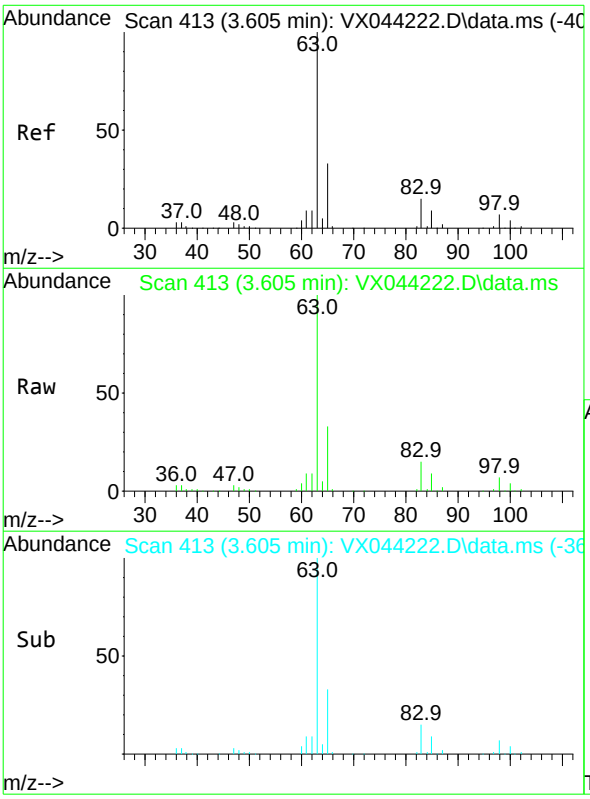
Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.2	12.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

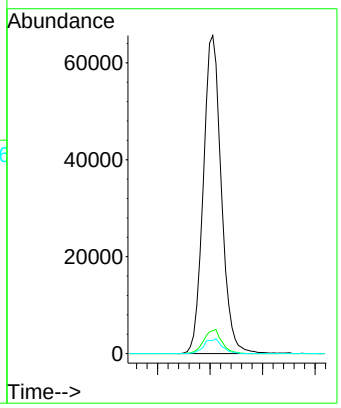


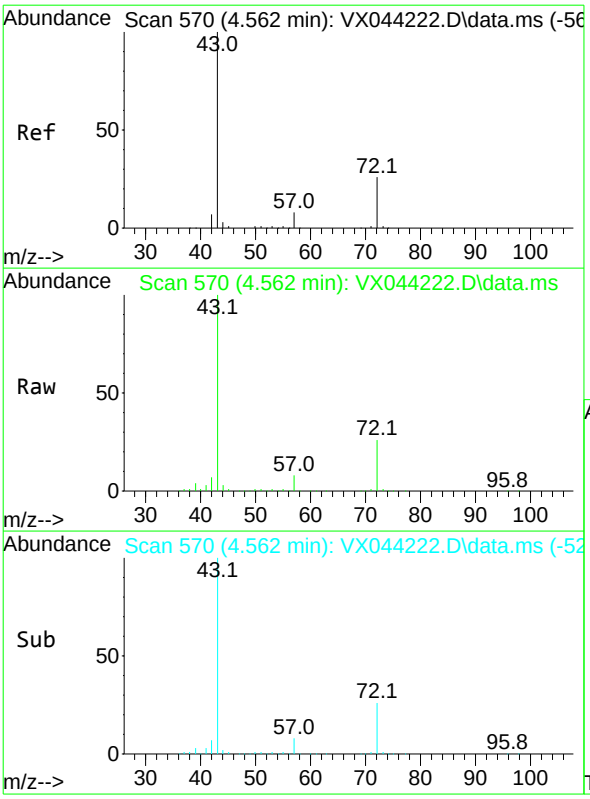


#24
1,1-Dichloroethane
Concen: 53.093 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 63 Resp: 156412

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	4.2	2.1	6.3

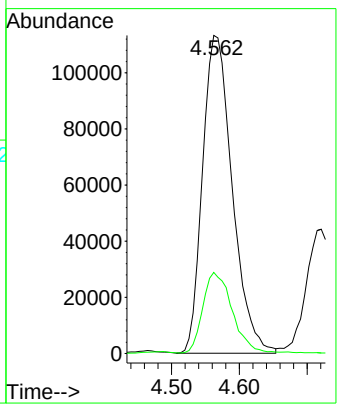




#25
2-Butanone
Concen: 269.797 ug/l
RT: 4.562 min Scan# 57
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 344663

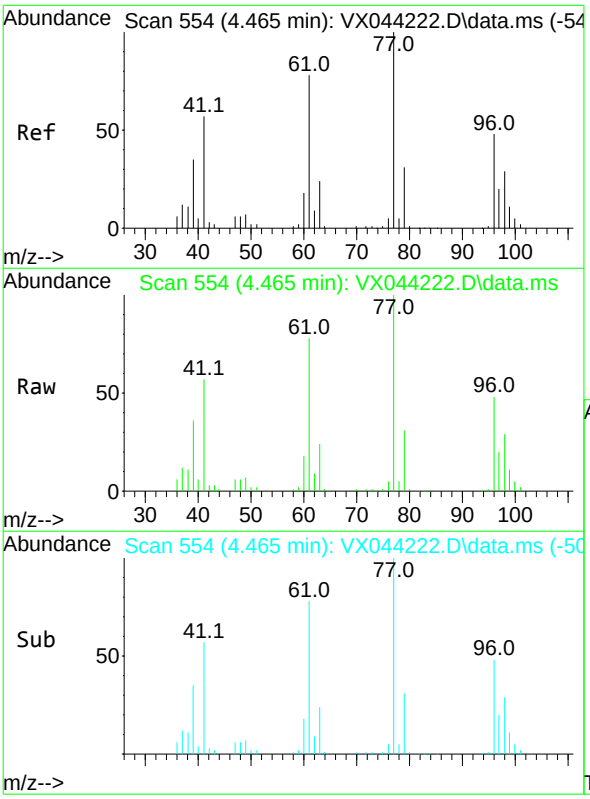
Ion	Ratio	Lower	Upper
43	100		
72	25.3	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

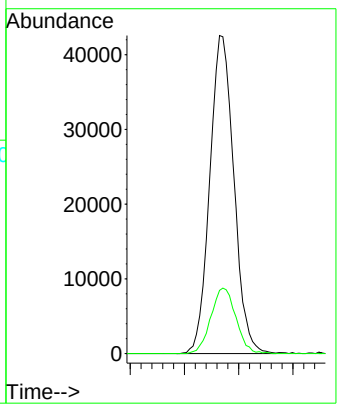
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

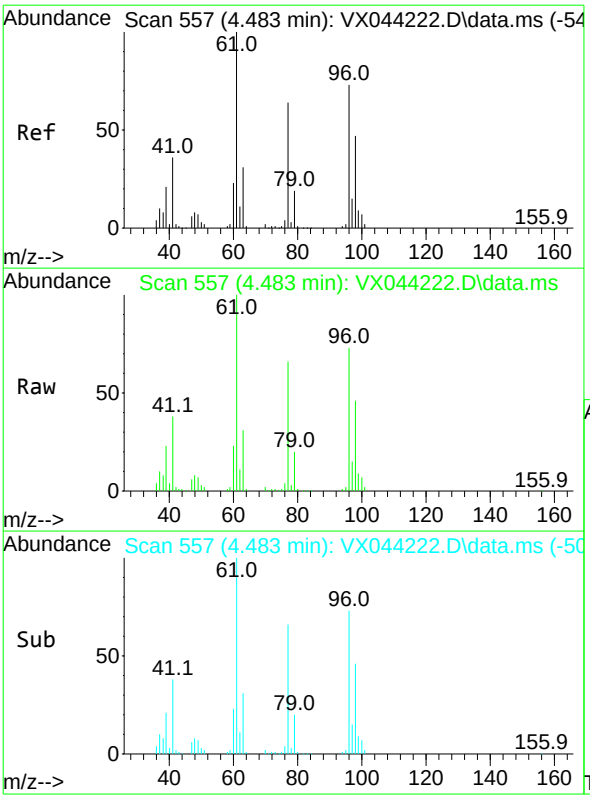


#26
2,2-Dichloropropane
Concen: 54.914 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 77 Resp: 131428

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.7	32.1

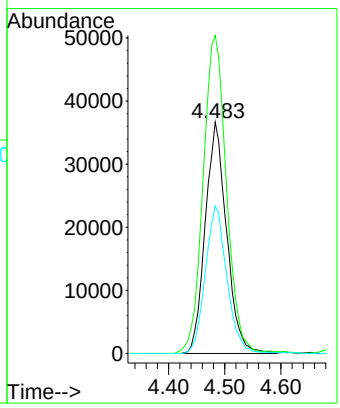




#27
cis-1,2-Dichloroethene
Concen: 51.007 ug/l
RT: 4.483 min Scan# 55
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 96 Resp: 97013

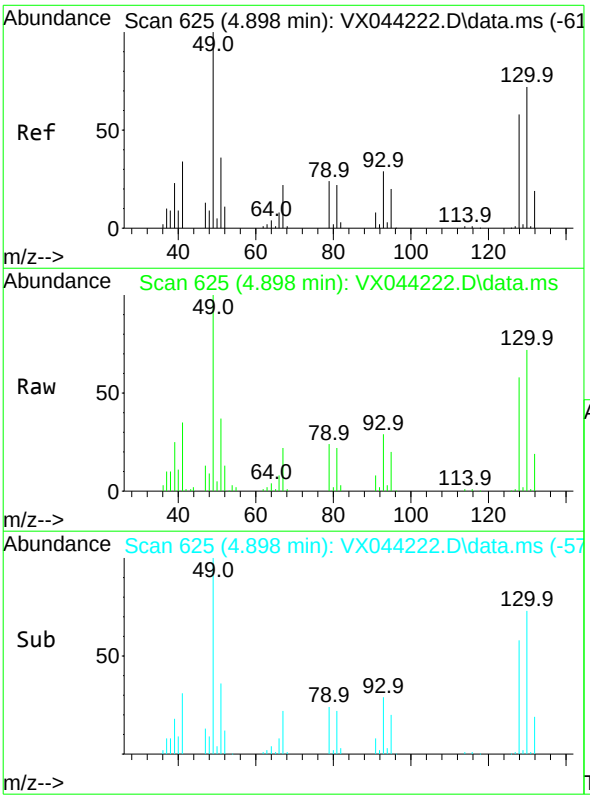
Ion	Ratio	Lower	Upper
96	100		
61	149.5	0.0	299.0
98	64.5	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

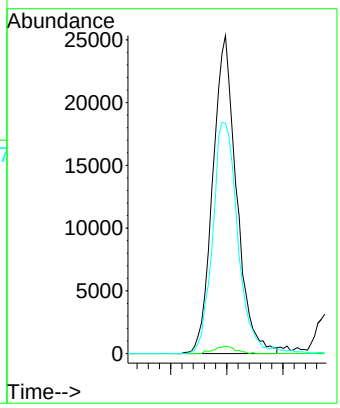
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

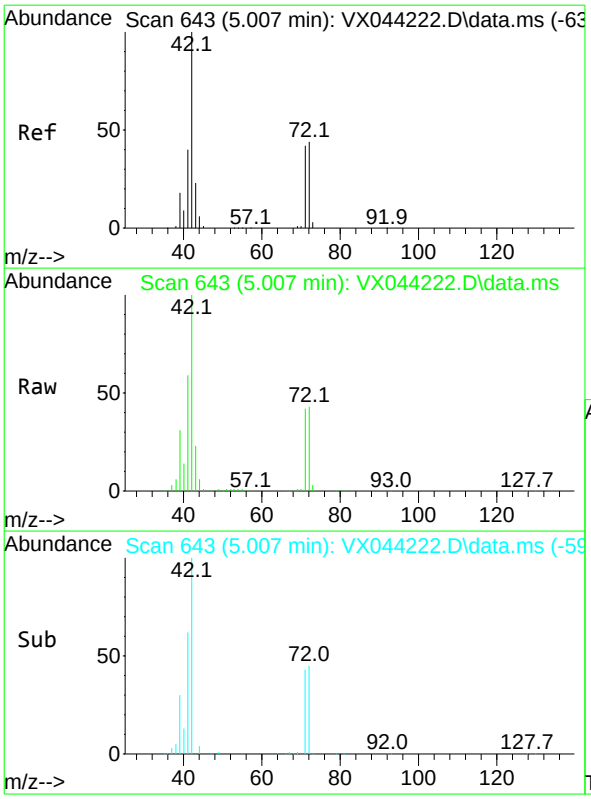


#28
Bromochloromethane
Concen: 51.555 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 49 Resp: 74477

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	77.6	62.1	93.1

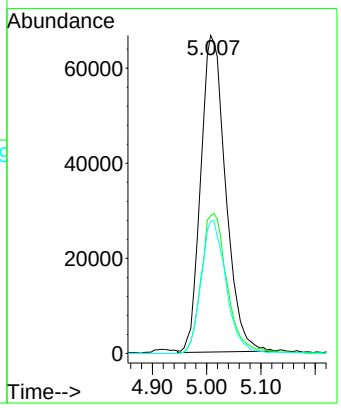




#29
Tetrahydrofuran
Concen: 258.669 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 42 Resp: 212103

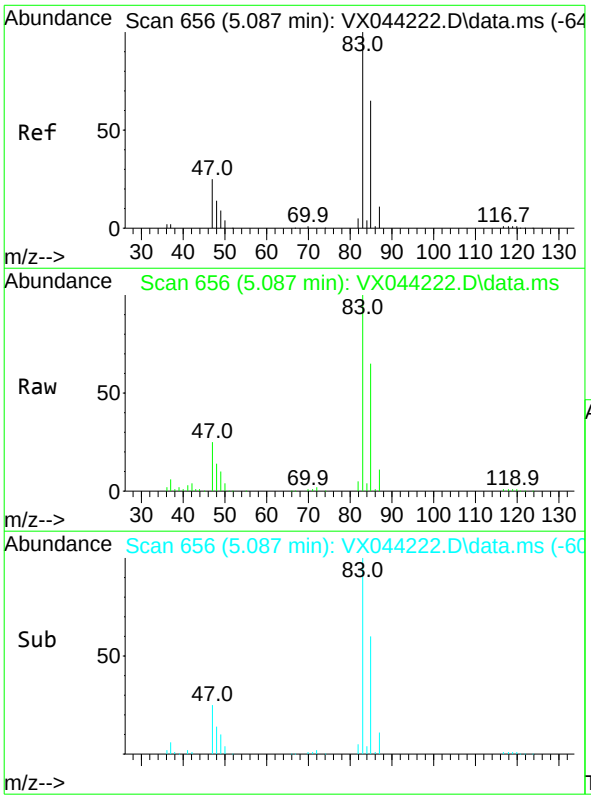
Ion	Ratio	Lower	Upper
42	100		
72	46.3	37.0	55.6
71	42.0	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

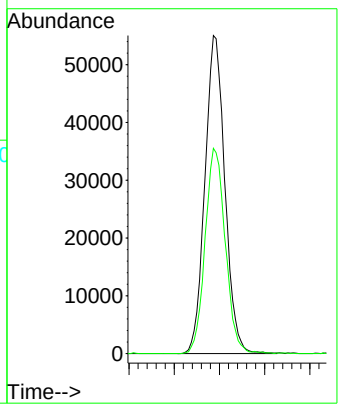
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

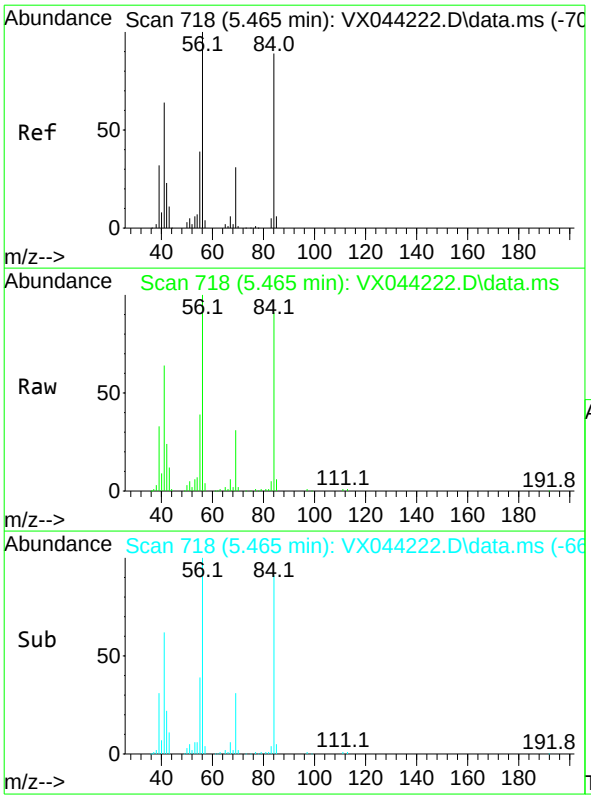


#30
Chloroform
Concen: 51.017 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 83 Resp: 168864

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.6	77.4

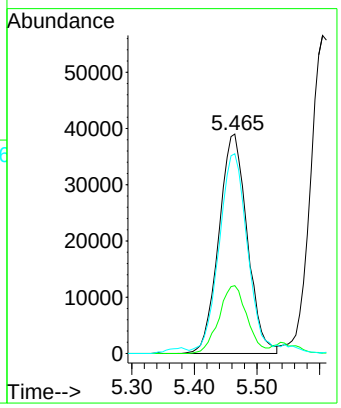




#31
Cyclohexane
Concen: 51.637 ug/l
RT: 5.465 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 56 Resp: 122841

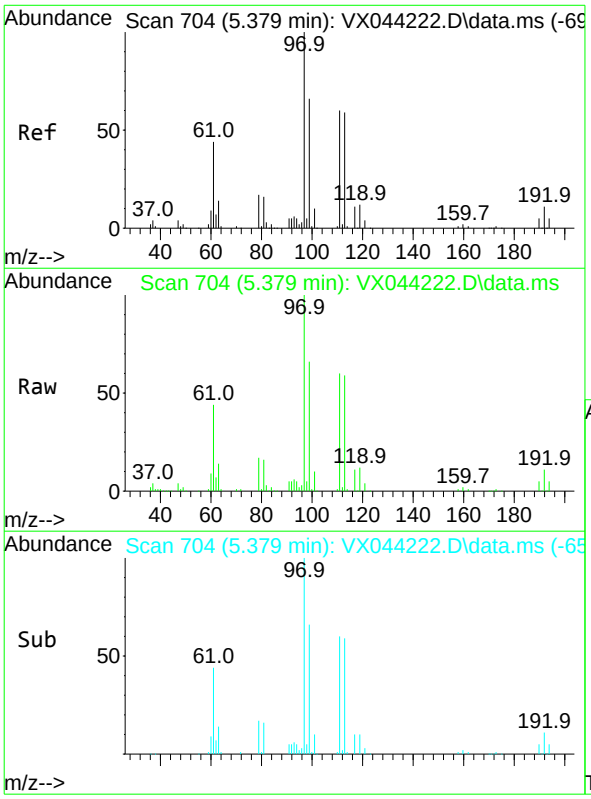
Ion	Ratio	Lower	Upper
56	100		
69	30.9	24.7	37.1
84	88.8	71.0	106.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

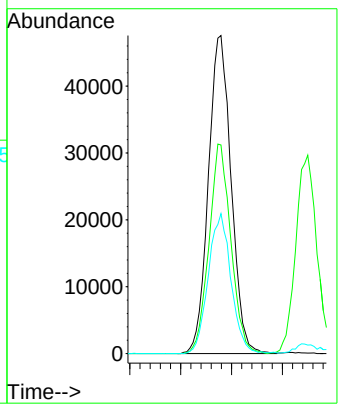
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

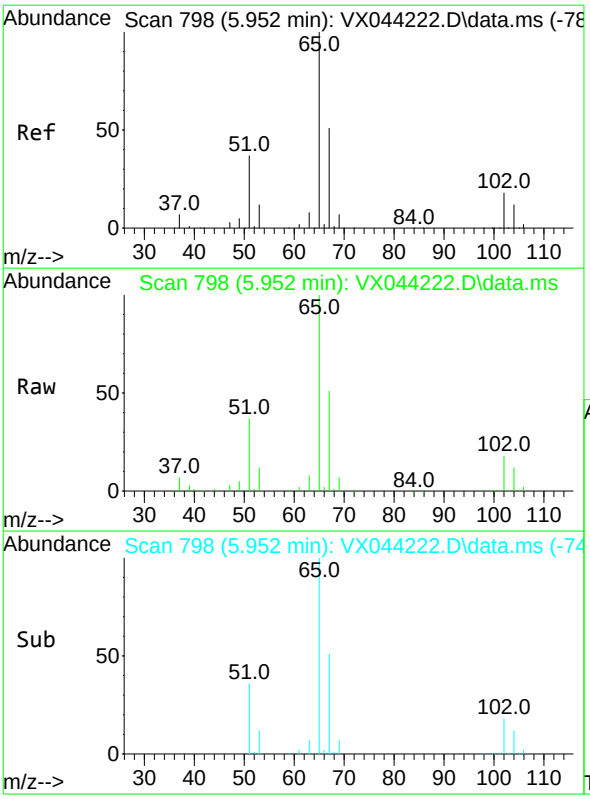


#32
1,1,1-Trichloroethane
Concen: 53.806 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 97 Resp: 147834

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.8	76.2
61	44.0	35.2	52.8

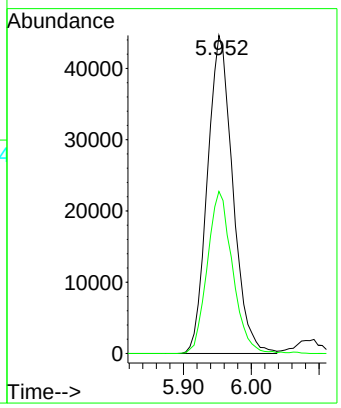




#33
1,2-Dichloroethane-d4
Concen: 52.544 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 65 Resp: 115815

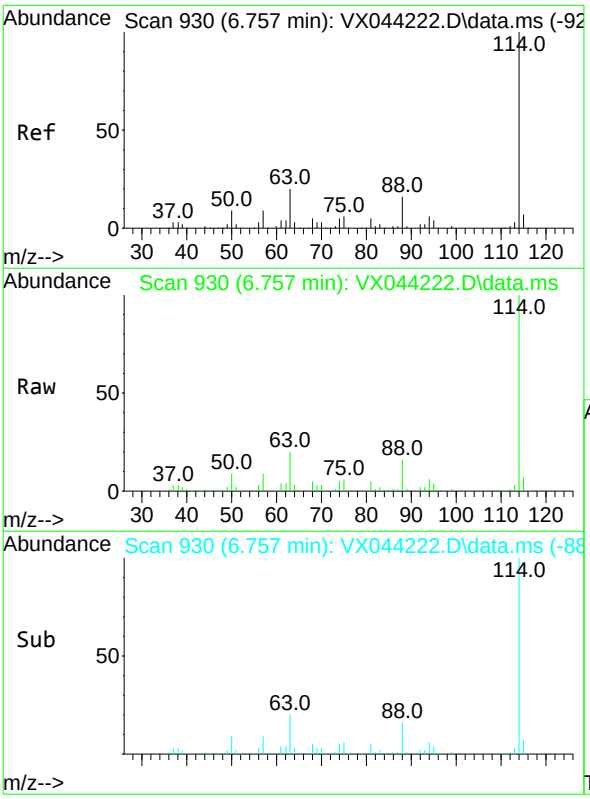
Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

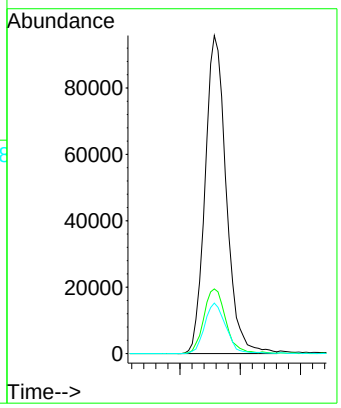
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

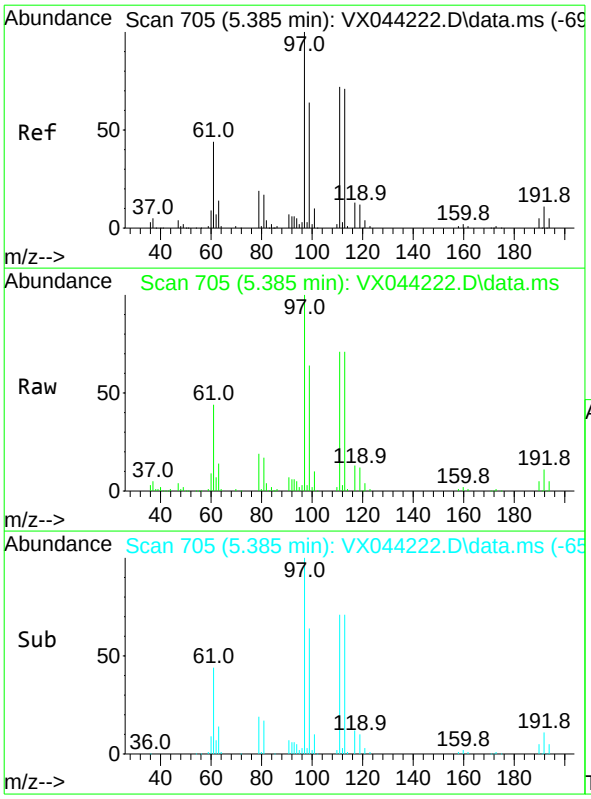


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:114 Resp: 233488

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	40.6
88	15.9	0.0	31.8

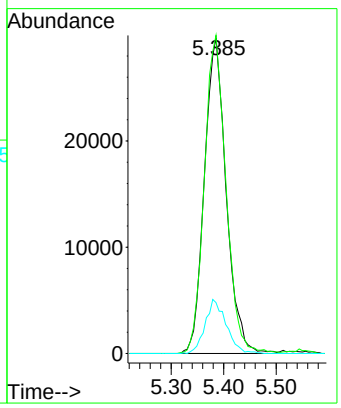




#35
Dibromofluoromethane
Concen: 52.968 ug/l
RT: 5.385 min Scan# 70
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:113 Resp: 85656

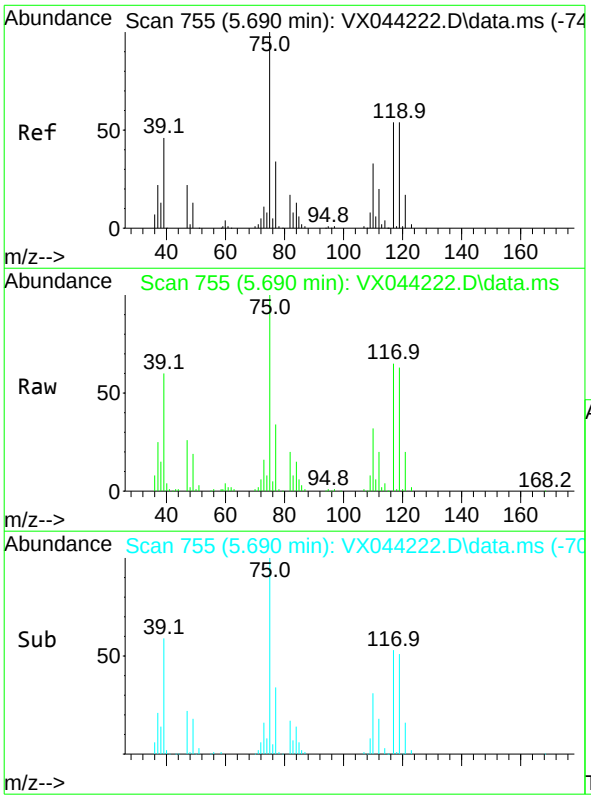
Ion	Ratio	Lower	Upper
113	100		
111	100.5	80.4	120.6
192	16.6	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

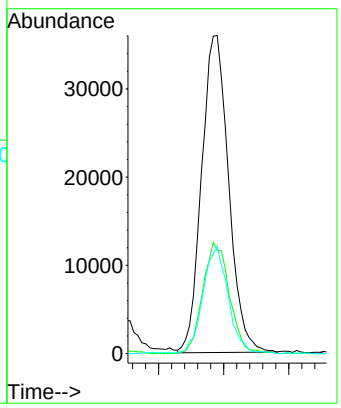
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

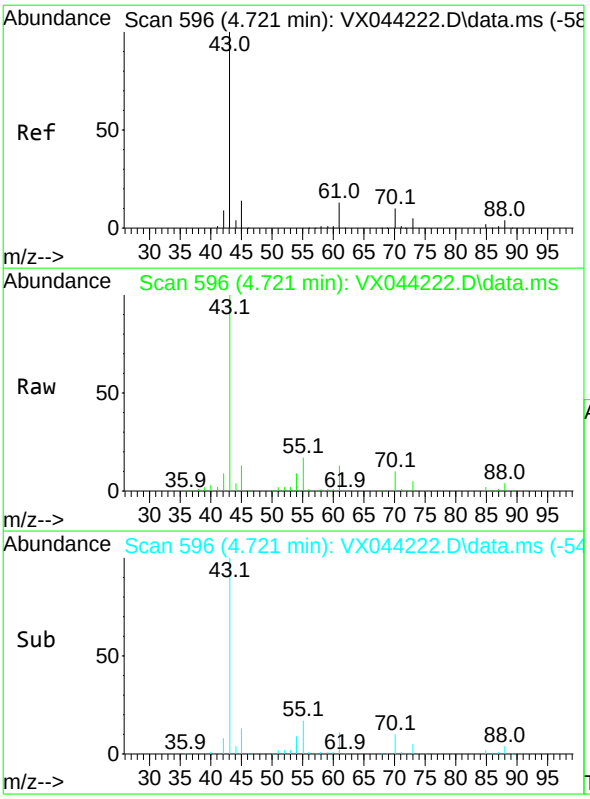


#36
1,1-Dichloropropene
Concen: 49.638 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 103760

Ion	Ratio	Lower	Upper
75	100		
110	34.5	17.3	51.7
77	31.7	25.4	38.0

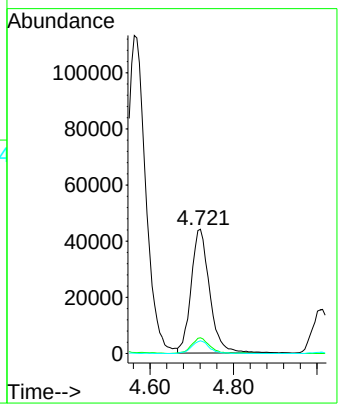




#37
Ethyl Acetate
Concen: 52.537 ug/l
RT: 4.721 min Scan# 59
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 135753

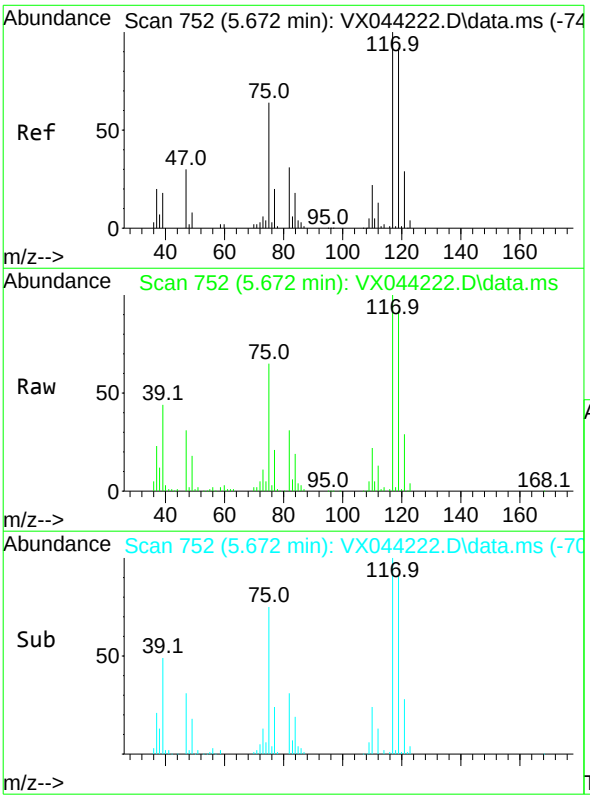
Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.6	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

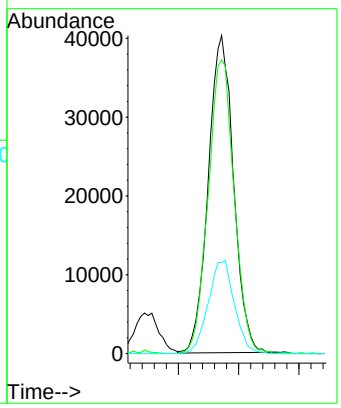
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

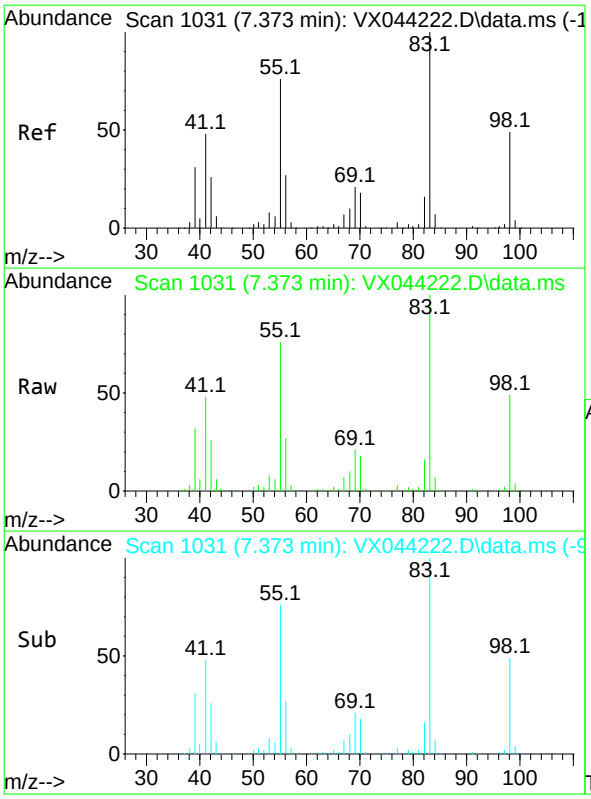


#38
Carbon Tetrachloride
Concen: 52.023 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:117 Resp: 117076

Ion	Ratio	Lower	Upper
117	100		
119	92.8	74.2	111.4
121	28.8	23.0	34.6

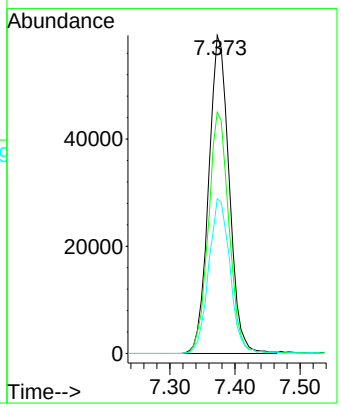




#39
Methylcyclohexane
Concen: 51.901 ug/l
RT: 7.373 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 83 Resp: 129697

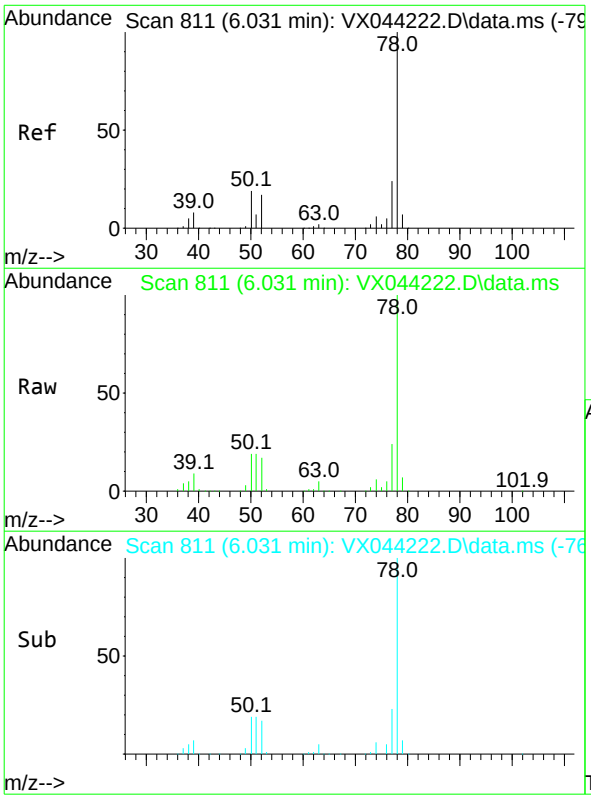
Ion	Ratio	Lower	Upper
83	100		
55	75.9	60.7	91.1
98	48.6	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

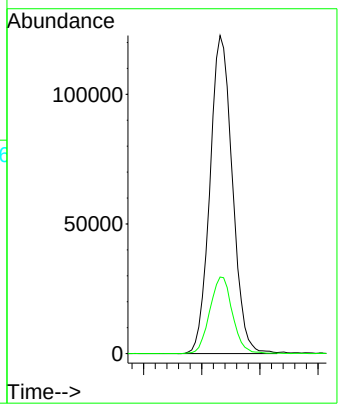
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

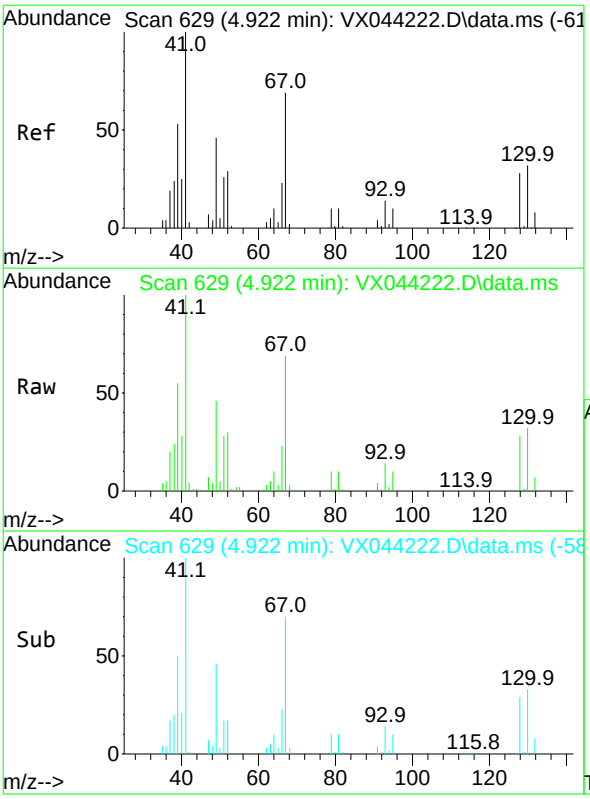


#40
Benzene
Concen: 51.863 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 78 Resp: 329154

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.3	28.9

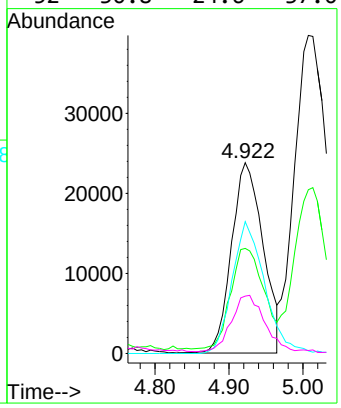




#41
Methacrylonitrile
Concen: 51.329 ug/l
RT: 4.922 min Scan# 62
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 41 Resp: 70427

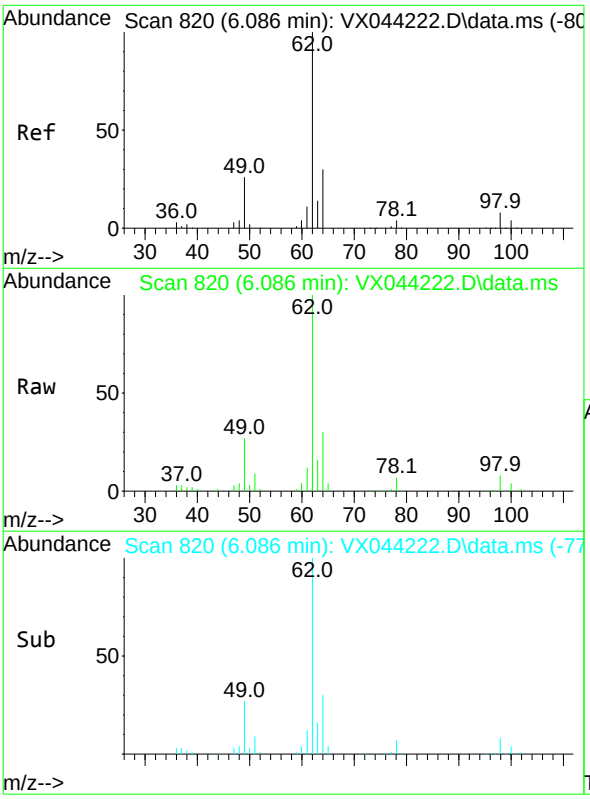
Ion	Ratio	Lower	Upper
41	100		
39	55.3	44.2	66.4
67	71.5	57.2	85.8
52	30.8	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

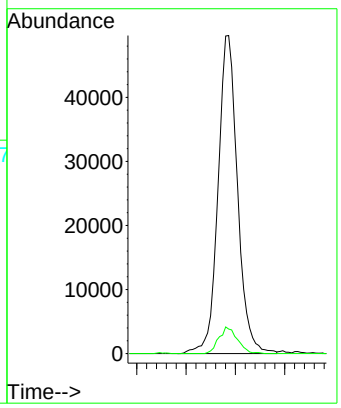
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

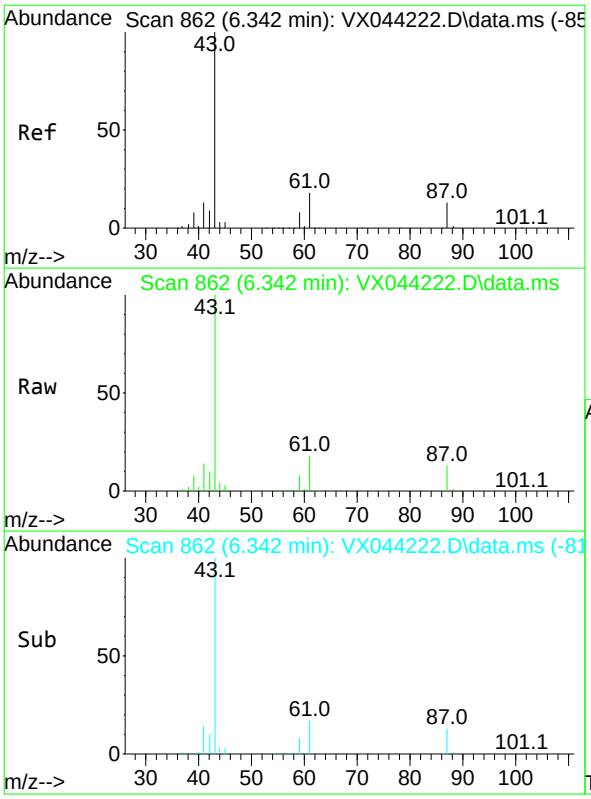


#42
1,2-Dichloroethane
Concen: 52.138 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 62 Resp: 136309

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	15.8





#43
Isopropyl Acetate
Concen: 52.961 ug/l
RT: 6.342 min Scan# 86
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

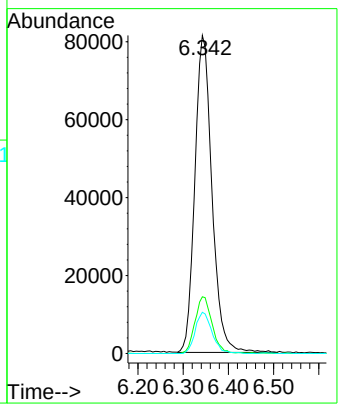
Tgt Ion: 43 Resp: 213891

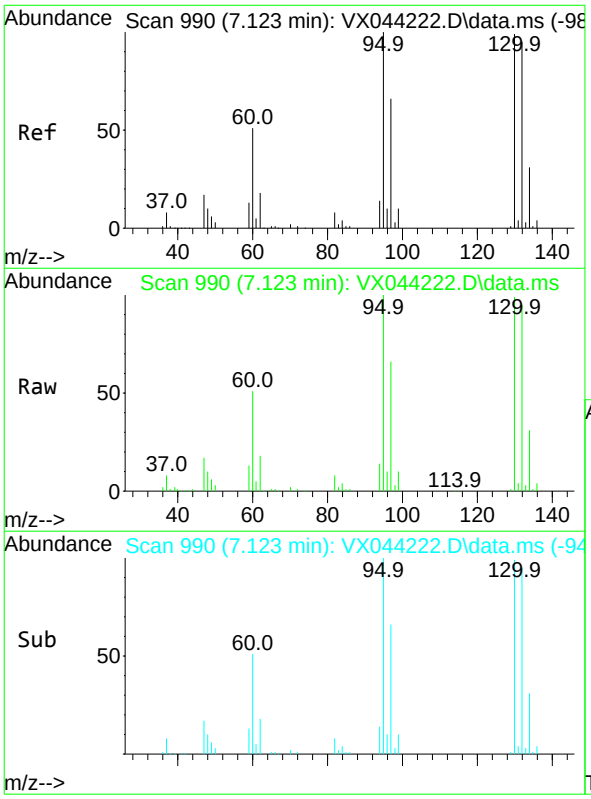
Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.2	21.2
87	12.7	10.2	15.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

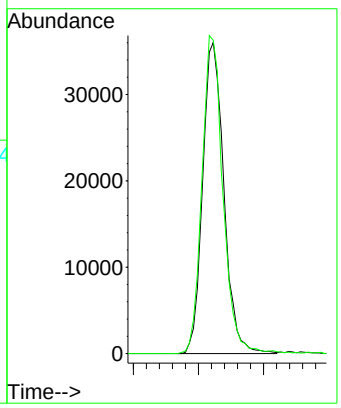


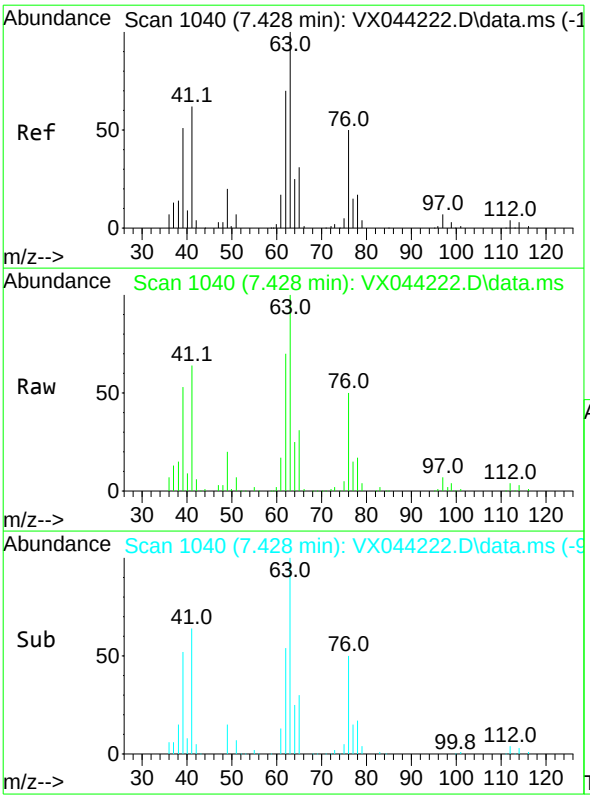


#44
Trichloroethene
Concen: 51.521 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:130 Resp: 81542

Ion	Ratio	Lower	Upper
130	100		
95	100.7	0.0	201.4





#45
1,2-Dichloropropane
Concen: 51.420 ug/l
RT: 7.428 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

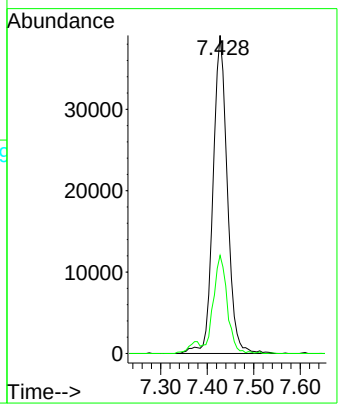
Tgt Ion: 63 Resp: 83376

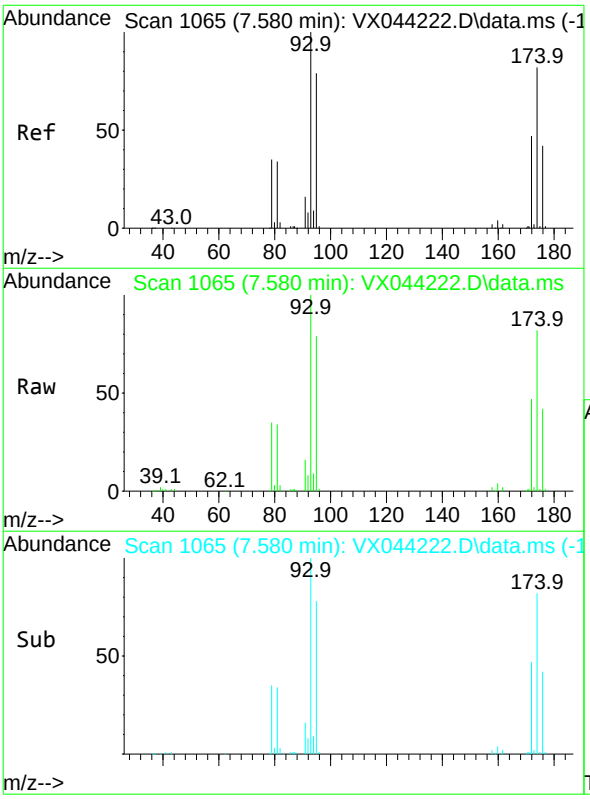
Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.6	37.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

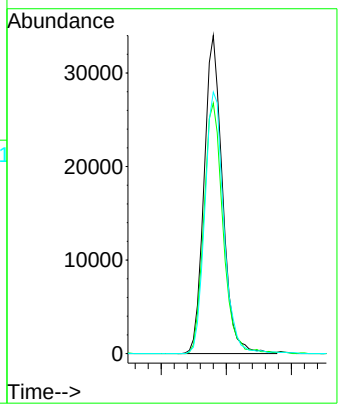


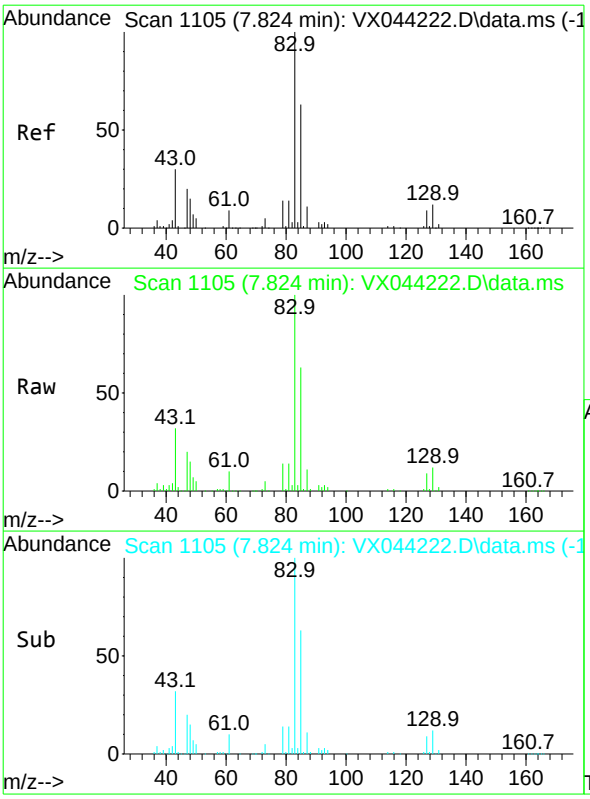


#46
Dibromomethane
Concen: 53.092 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 93 Resp: 66786

Ion	Ratio	Lower	Upper
93	100		
95	81.8	65.4	98.2
174	84.9	67.9	101.9

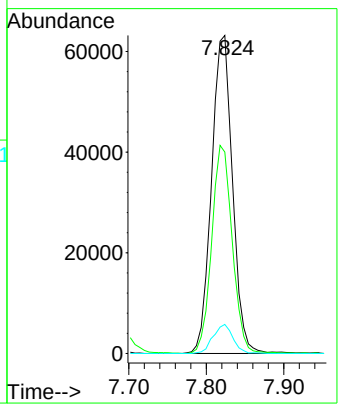




#47
Bromodichloromethane
Concen: 54.607 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 83 Resp: 118634

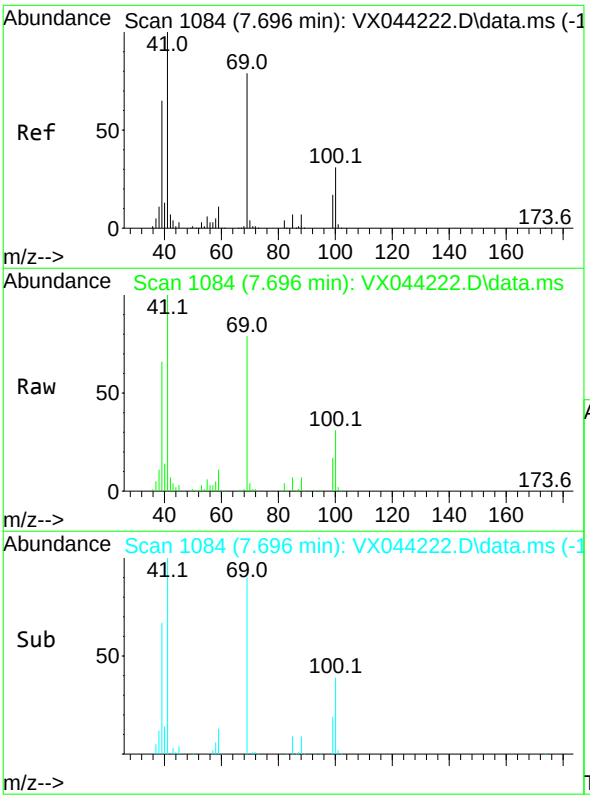
Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	9.1	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

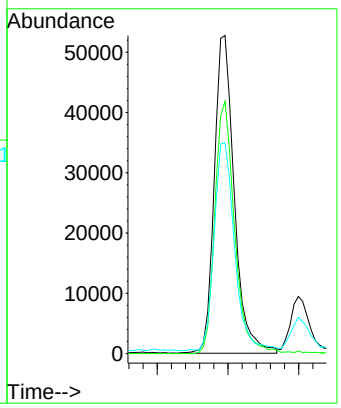
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

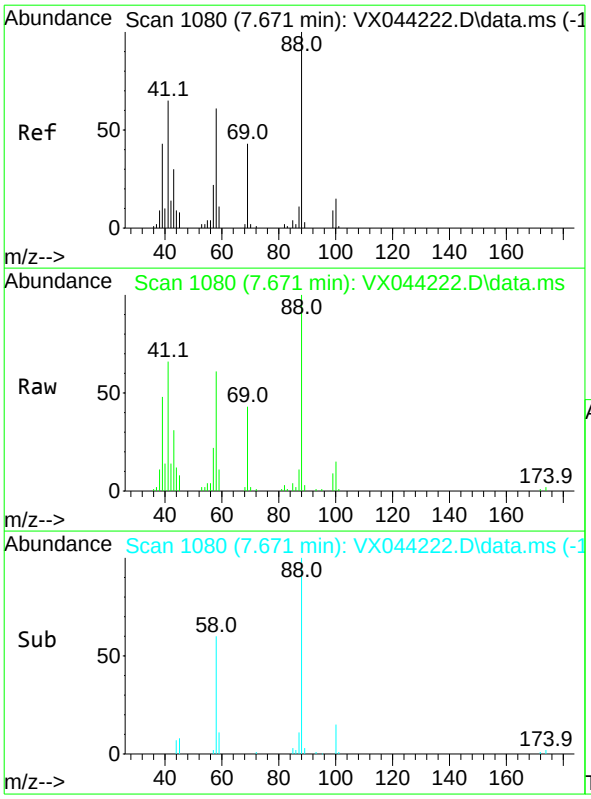


#48
Methyl methacrylate
Concen: 52.909 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 41 Resp: 103726

Ion	Ratio	Lower	Upper
41	100		
69	78.0	62.4	93.6
39	66.6	53.3	79.9





#49
1,4-Dioxane
Concen: 1052.498 ug/l m
RT: 7.671 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

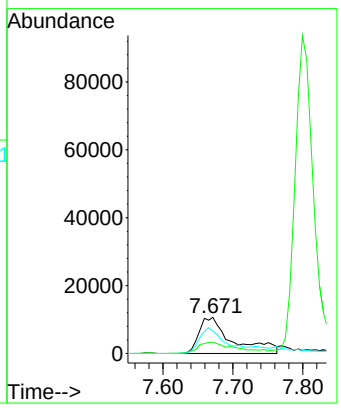
Tgt Ion: 88 Resp: 35263

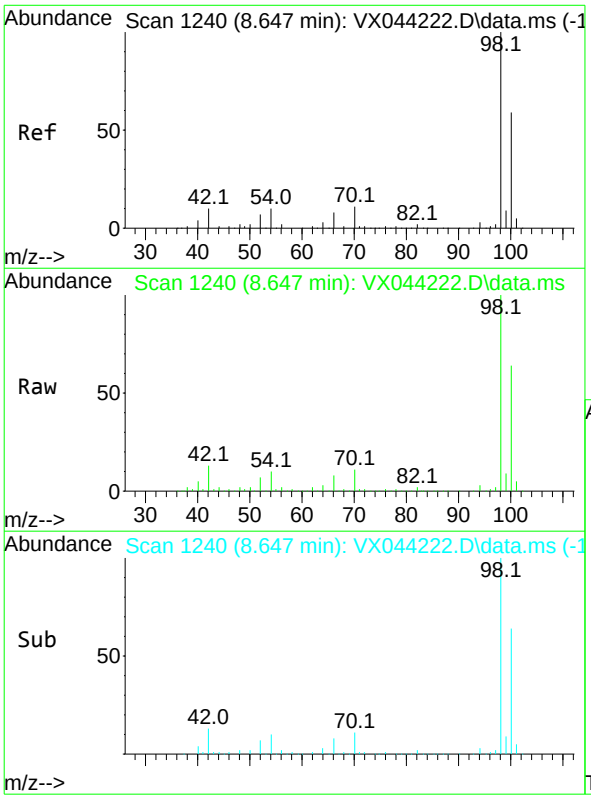
Ion	Ratio	Lower	Upper
88	100		
43	36.2	27.1	40.7
58	54.7	41.0	61.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

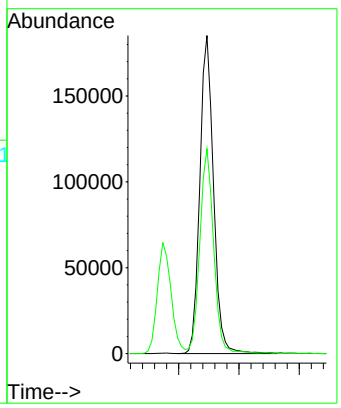


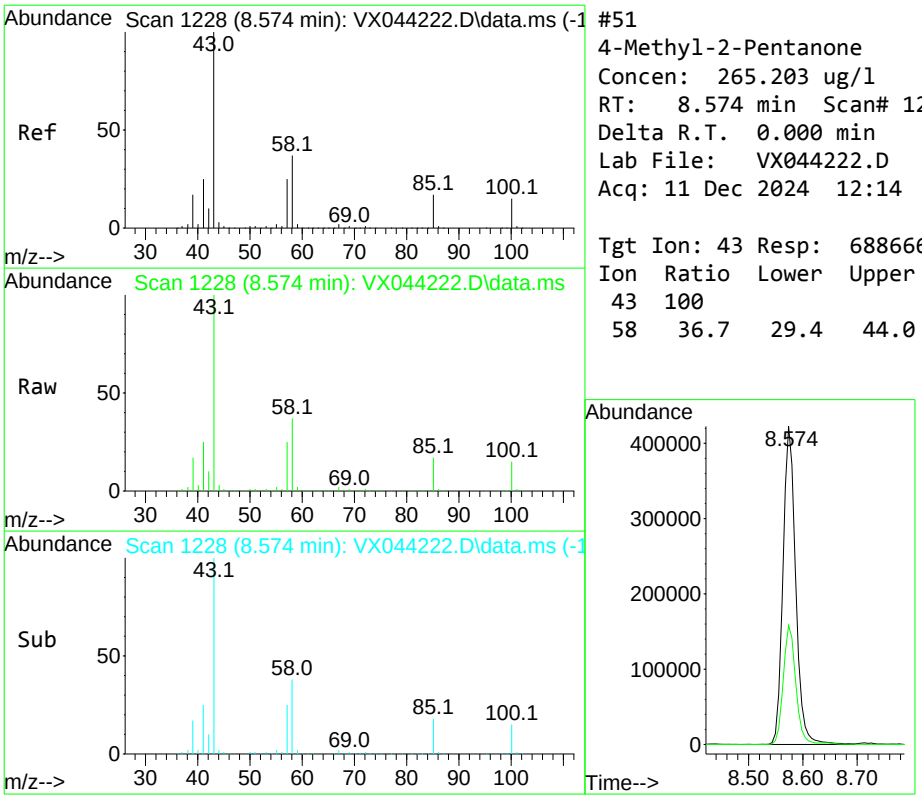


#50
Toluene-d8
Concen: 53.559 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 98 Resp: 292199

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 265.203 ug/l
RT: 8.574 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

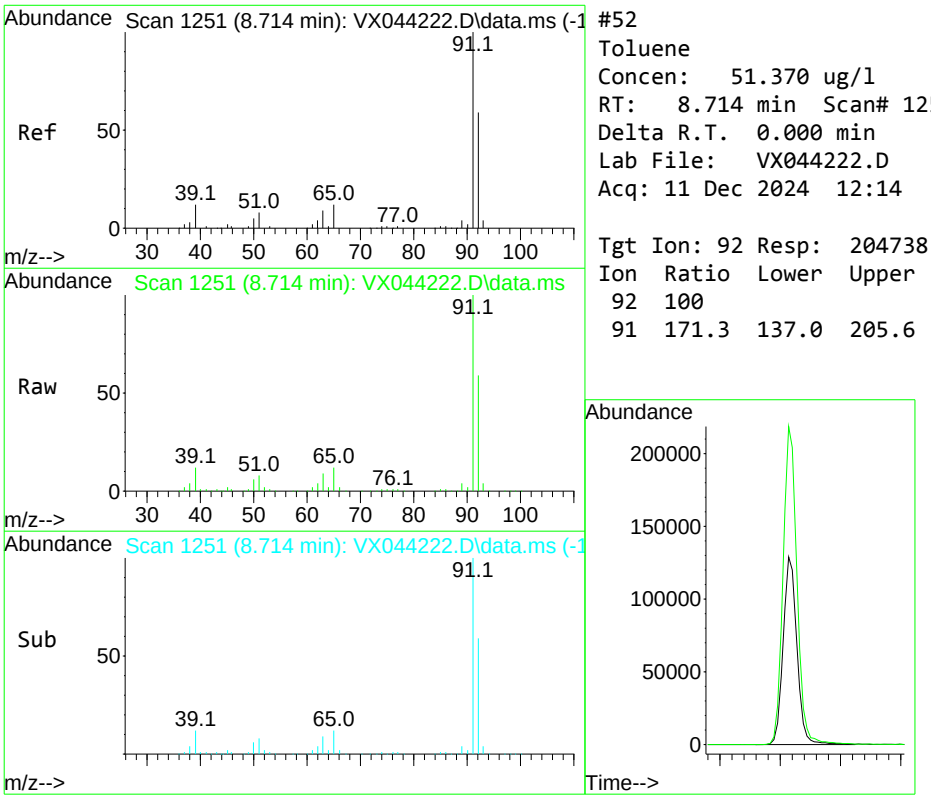
Tgt Ion: 43 Resp: 688666

Ion	Ratio	Lower	Upper
43	100		
58	36.7	29.4	44.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

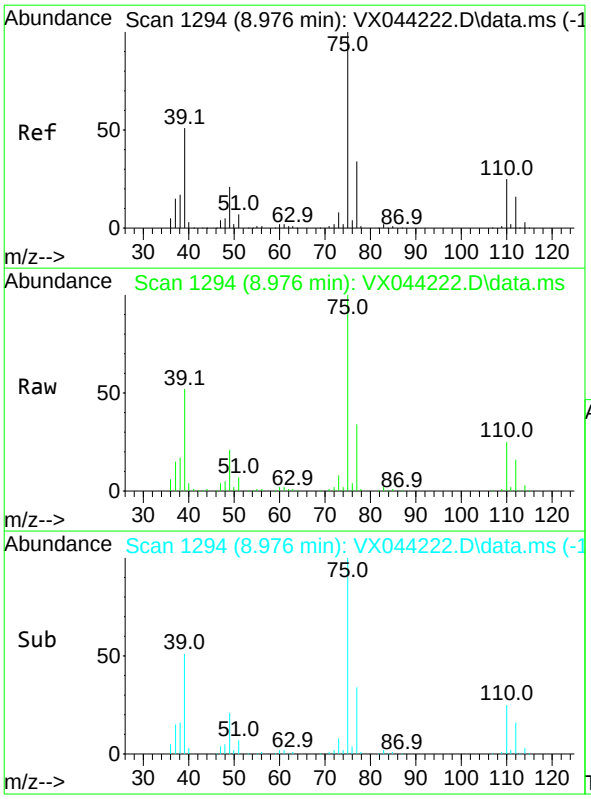
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#52
Toluene
Concen: 51.370 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 92 Resp: 204738

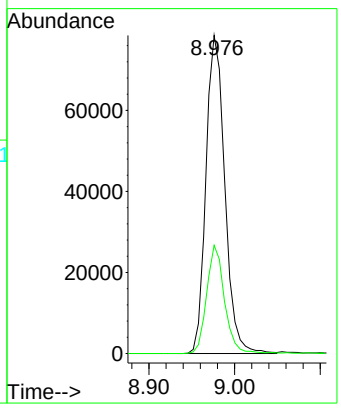
Ion	Ratio	Lower	Upper
92	100		
91	171.3	137.0	205.6



#53
t-1,3-Dichloropropene
Concen: 51.362 ug/l
RT: 8.976 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 120007

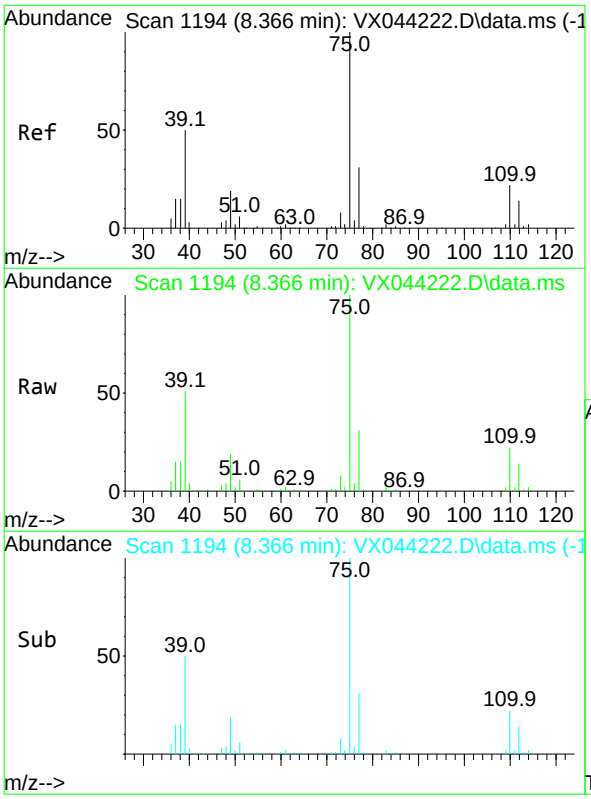
Ion	Ratio	Lower	Upper
75	100		
77	34.0	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

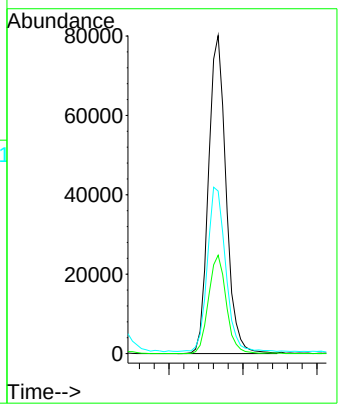
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

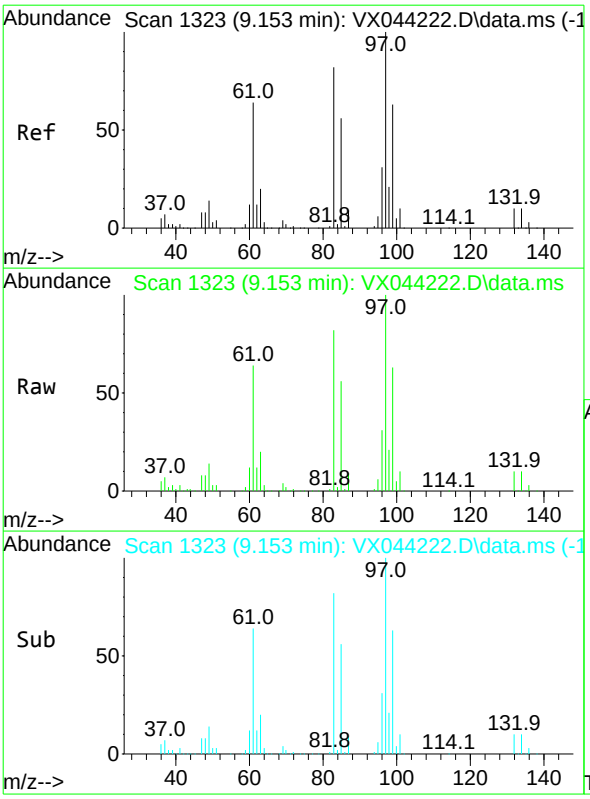


#54
cis-1,3-Dichloropropene
Concen: 55.923 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 132286

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.7	37.1
39	50.4	40.3	60.5

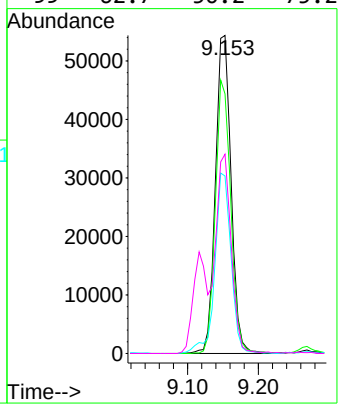




#55
1,1,2-Trichloroethane
Concen: 52.729 ug/l
RT: 9.153 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 97 Resp: 83488

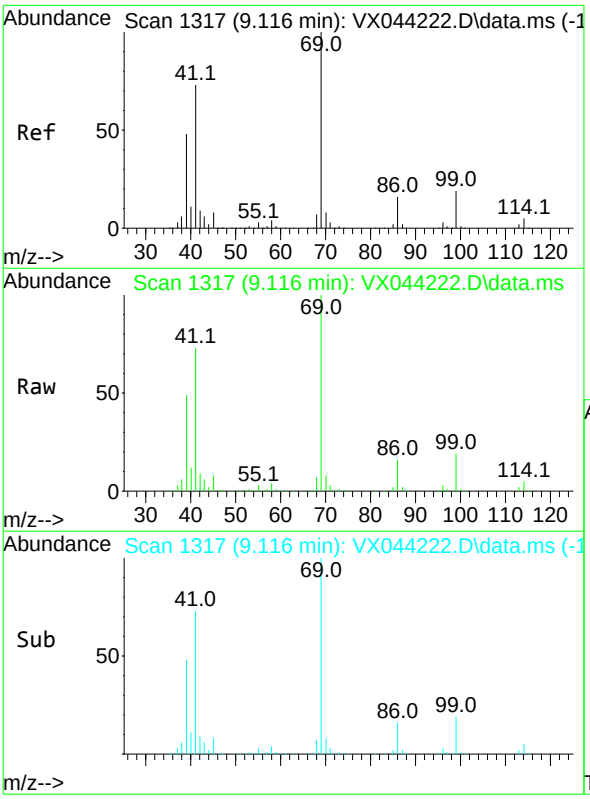
Ion	Ratio	Lower	Upper
97	100		
83	81.6	65.3	97.9
85	55.8	44.6	67.0
99	62.7	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

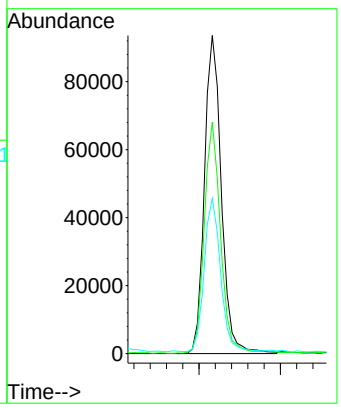
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

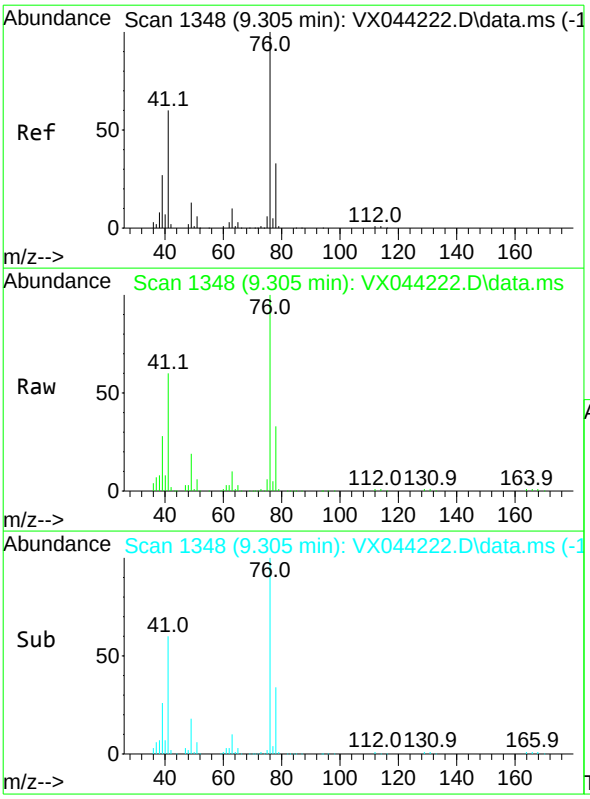


#56
Ethyl methacrylate
Concen: 53.917 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 69 Resp: 134770

Ion	Ratio	Lower	Upper
69	100		
41	70.8	56.6	85.0
39	46.7	37.4	56.0

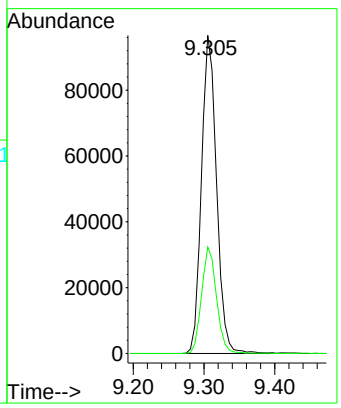




#57
1,3-Dichloropropane
Concen: 51.904 ug/l
RT: 9.305 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 76 Resp: 143044

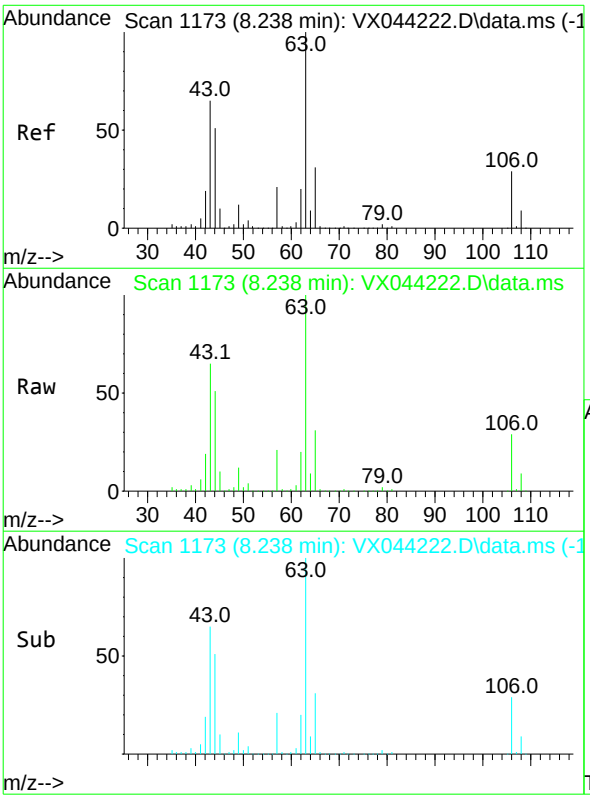
Ion	Ratio	Lower	Upper
76	100		
78	33.1	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

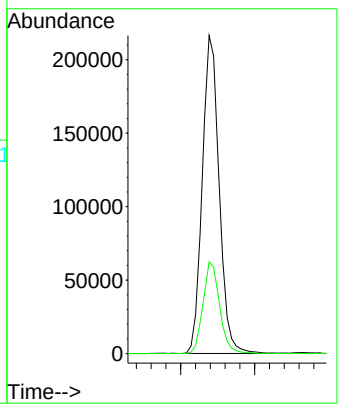
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

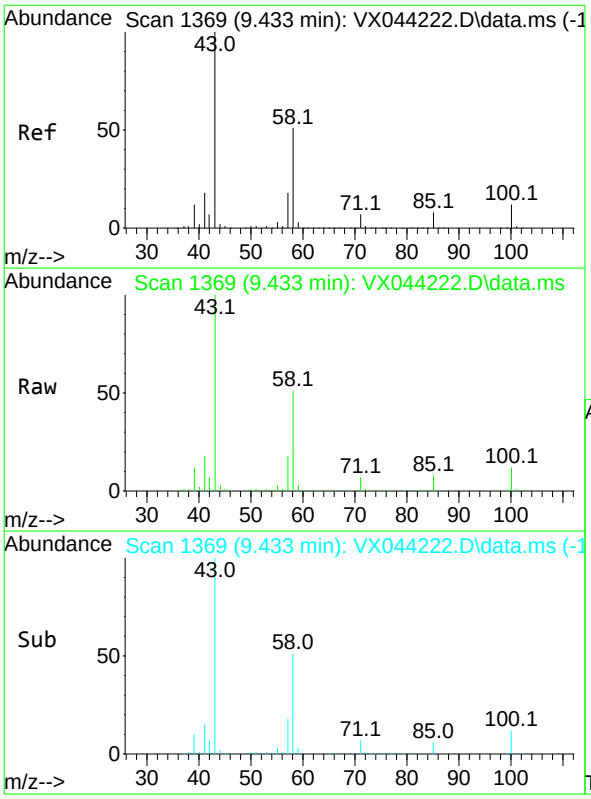


#58
2-Chloroethyl Vinyl ether
Concen: 271.745 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 63 Resp: 342592

Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.8	34.2

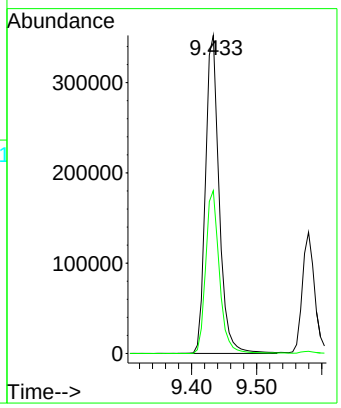




#59
2-Hexanone
Concen: 272.881 ug/l
RT: 9.433 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 512906

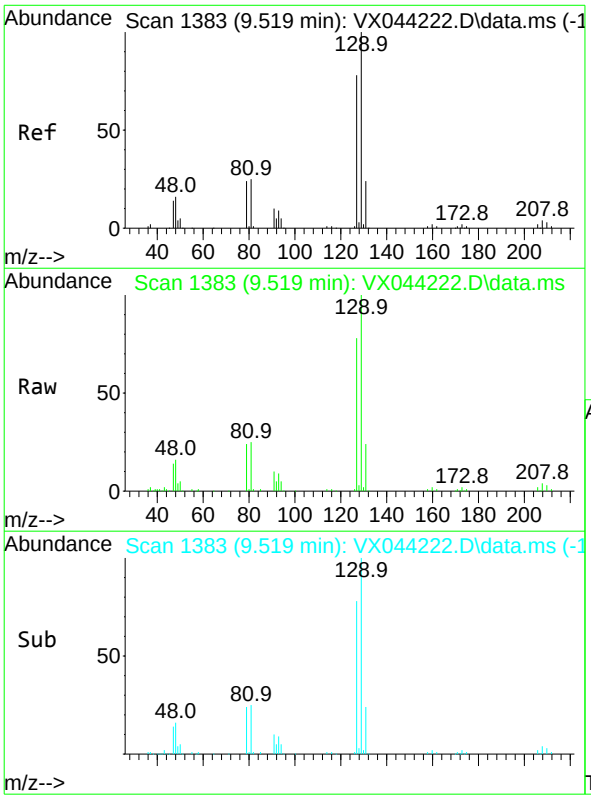
Ion	Ratio	Lower	Upper
43	100		
58	51.3	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

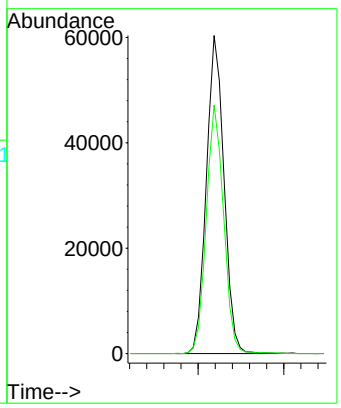
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

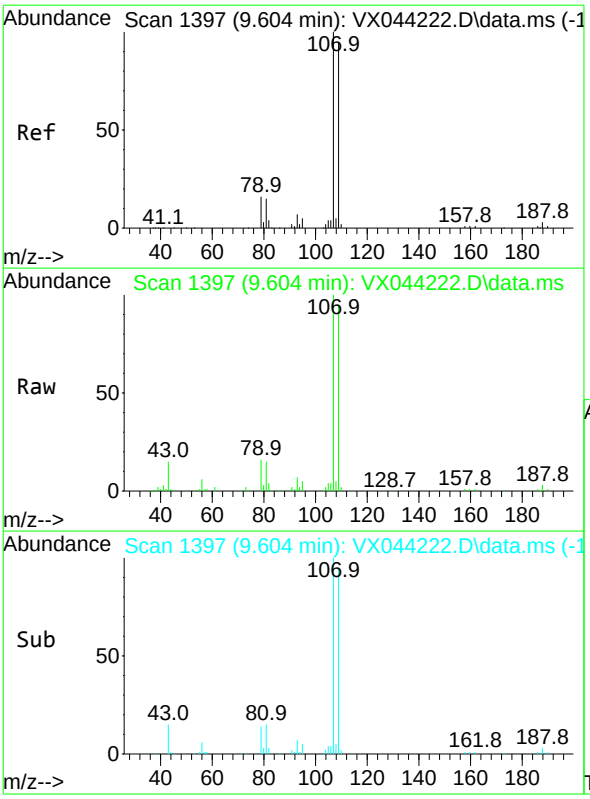


#60
Dibromochloromethane
Concen: 51.400 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:129 Resp: 86352

Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.5	115.3

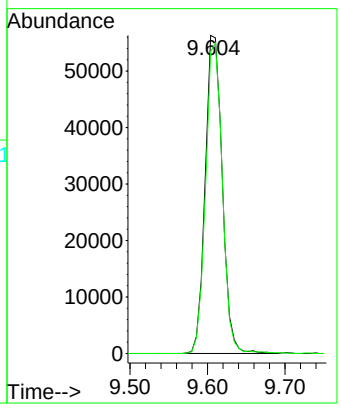




#61
1,2-Dibromoethane
Concen: 53.454 ug/l
RT: 9.604 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:107 Resp: 86150

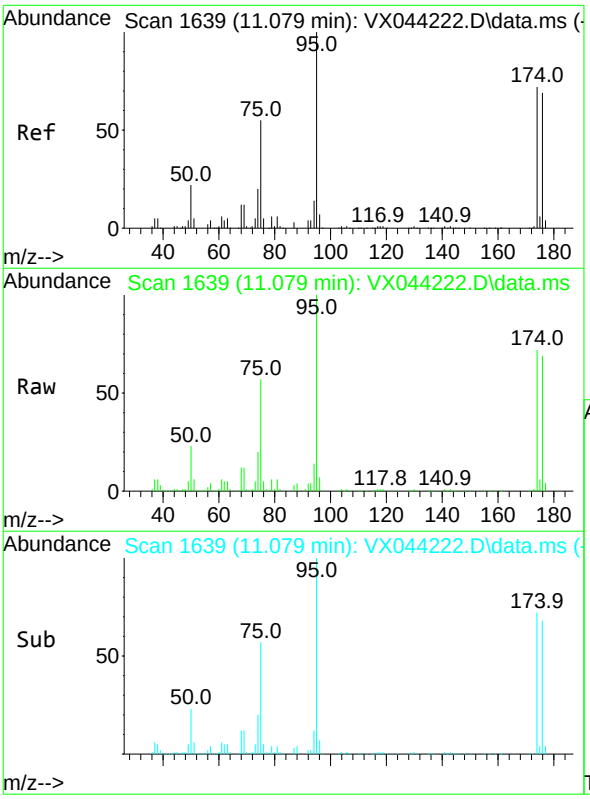
Ion	Ratio	Lower	Upper
107	100		
109	96.2	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

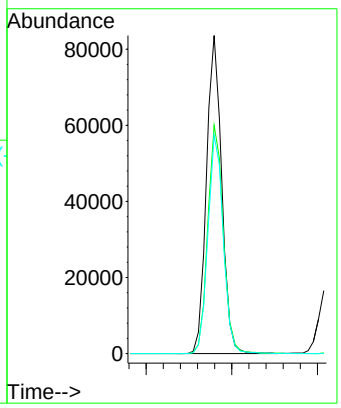
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

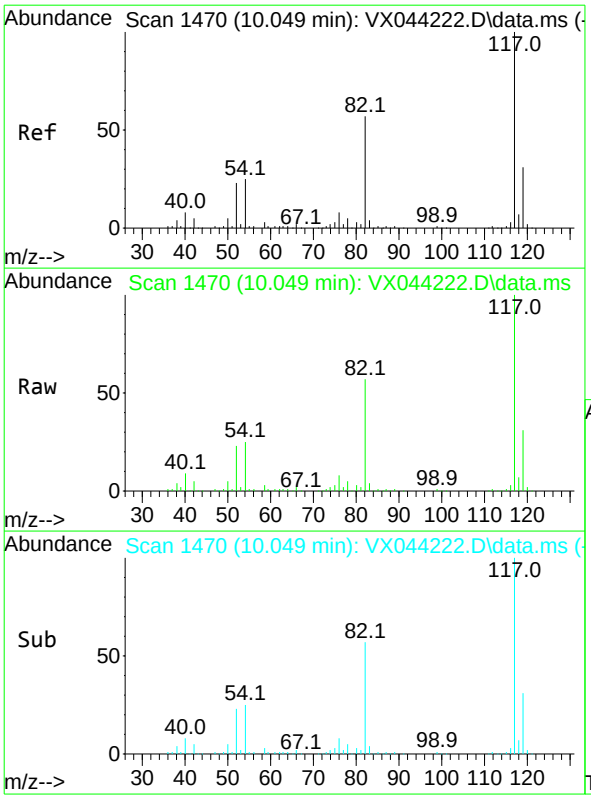


#62
4-Bromofluorobenzene
Concen: 54.123 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 95 Resp: 103178

Ion	Ratio	Lower	Upper
95	100		
174	72.9	0.0	145.8
176	68.9	0.0	137.8

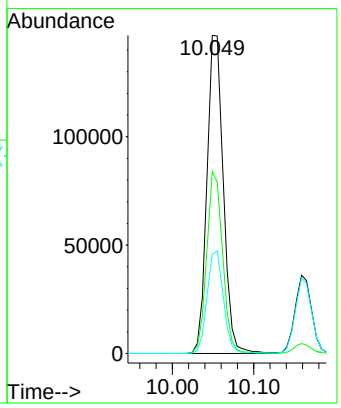




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:117 Resp: 205196

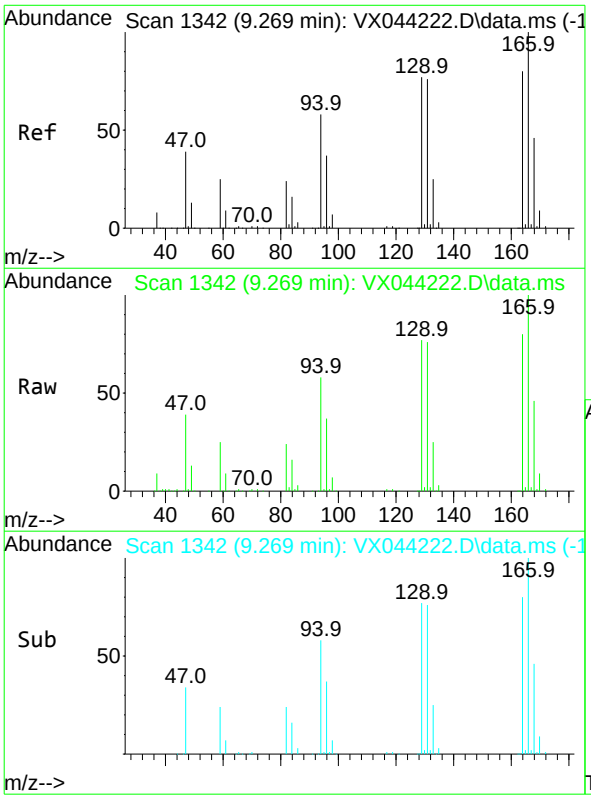
Ion	Ratio	Lower	Upper
117	100		
82	57.3	45.8	68.8
119	31.2	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

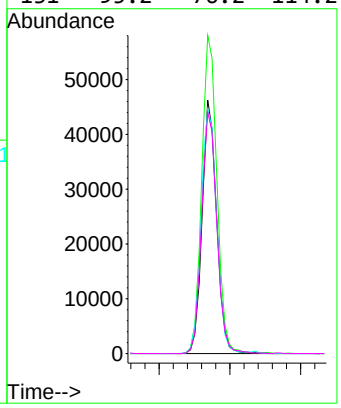
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

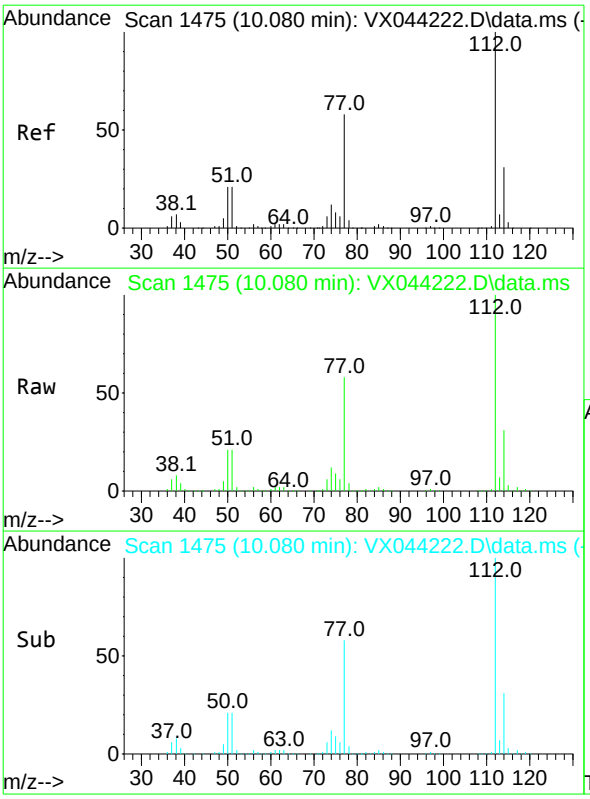


#64
Tetrachloroethene
Concen: 48.379 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:164 Resp: 65888

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	96.5	77.2	115.8
131	95.2	76.2	114.2

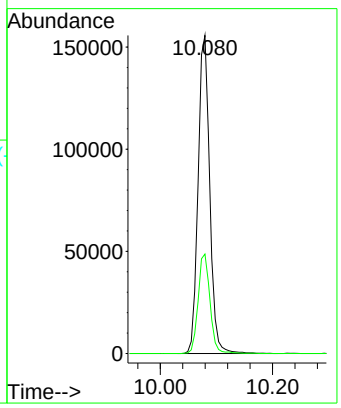




#65
Chlorobenzene
Concen: 50.779 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:112 Resp: 223269

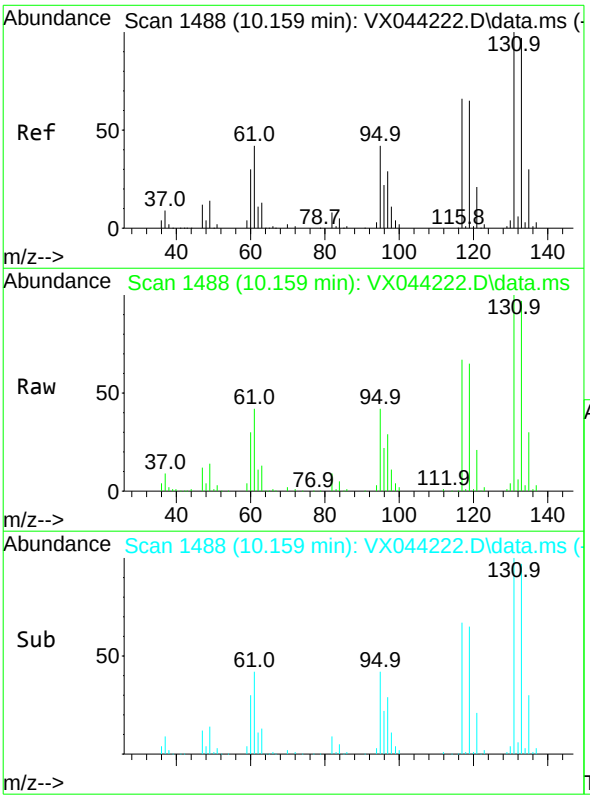
Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

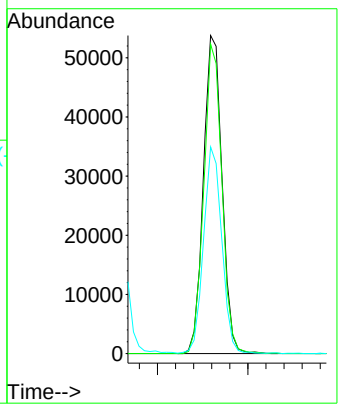
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

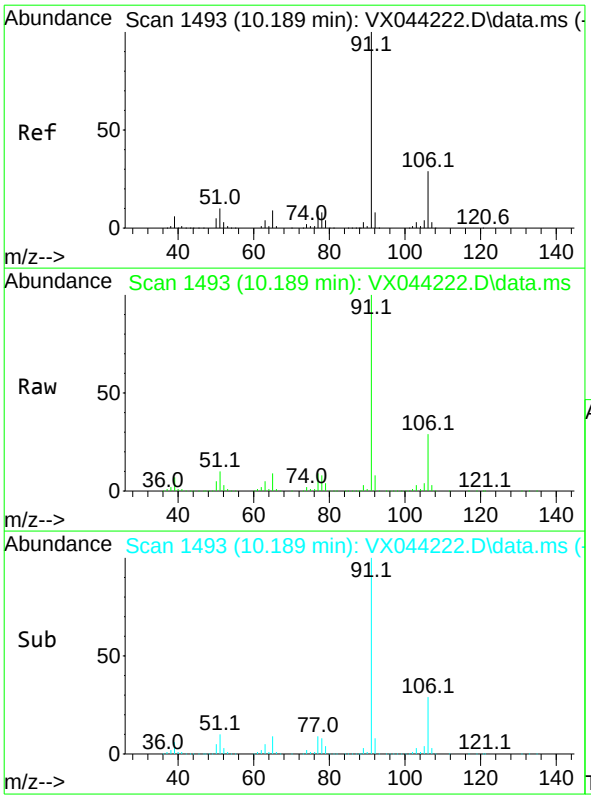


#66
1,1,1,2-Tetrachloroethane
Concen: 54.396 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:131 Resp: 76867

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	141.8
119	63.3	31.6	95.0

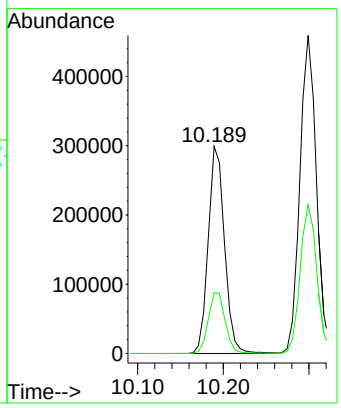




#67
Ethyl Benzene
Concen: 52.050 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 91 Resp: 395430

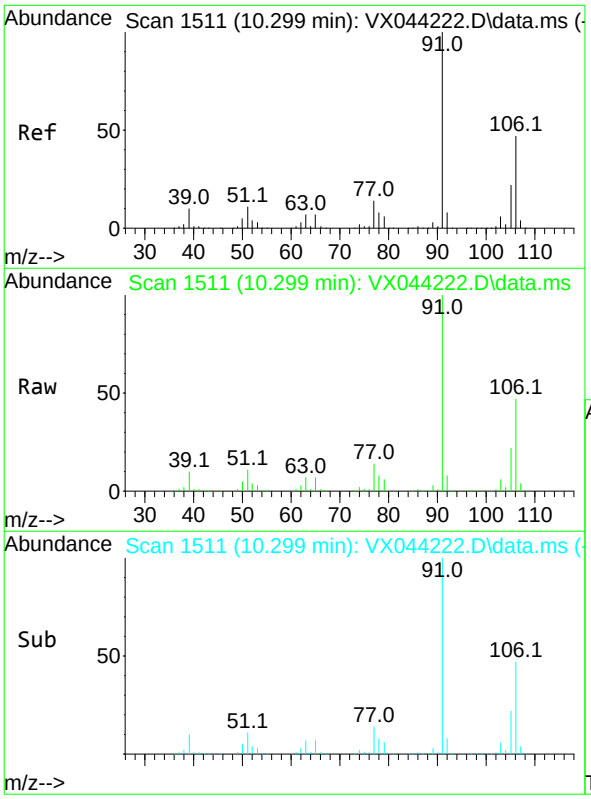
Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

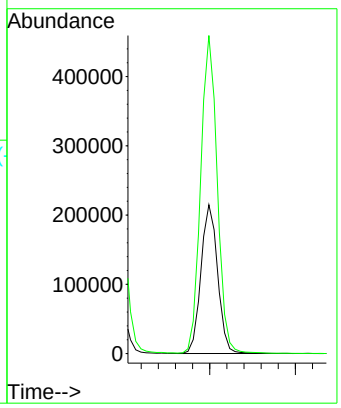
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

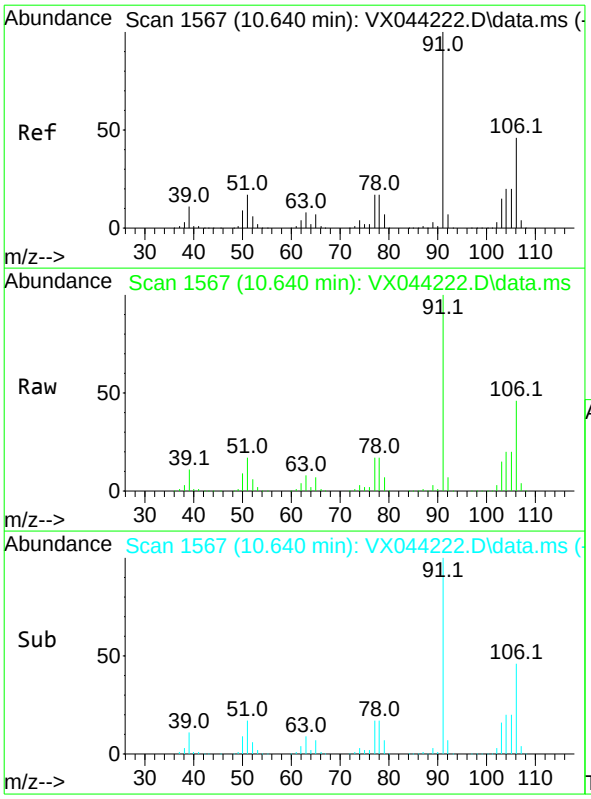


#68
m/p-Xylenes
Concen: 104.094 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:106 Resp: 290181

Ion	Ratio	Lower	Upper
106	100		
91	212.7	170.2	255.2

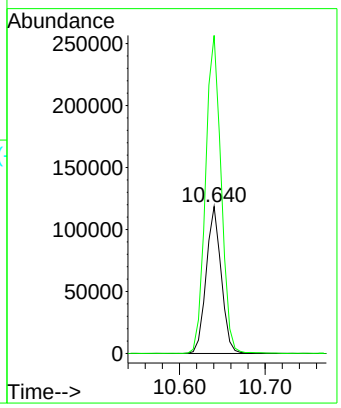




#69
o-Xylene
Concen: 51.141 ug/l
RT: 10.640 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:106 Resp: 144247

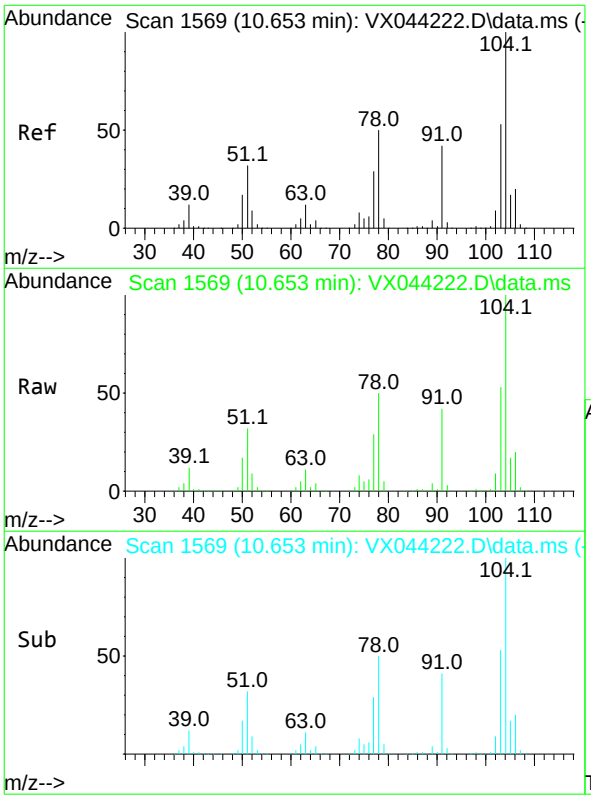
Ion	Ratio	Lower	Upper
106	100		
91	224.7	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

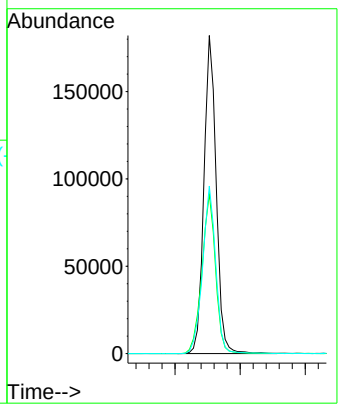
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

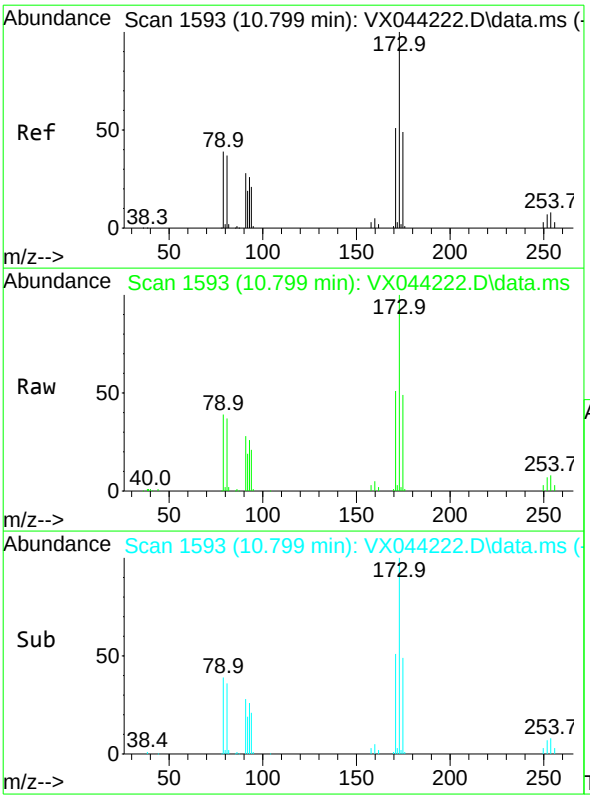


#70
Styrene
Concen: 52.719 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:104 Resp: 238379

Ion	Ratio	Lower	Upper
104	100		
78	55.8	44.6	67.0
103	56.7	45.4	68.0

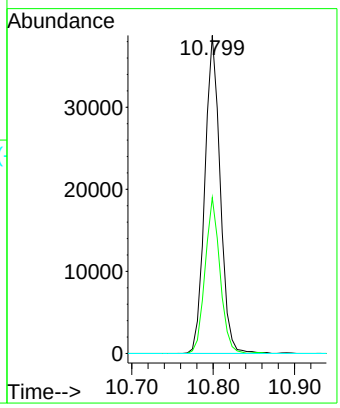




#71
Bromoform
Concen: 51.158 ug/l
RT: 10.799 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:173 Resp: 50667

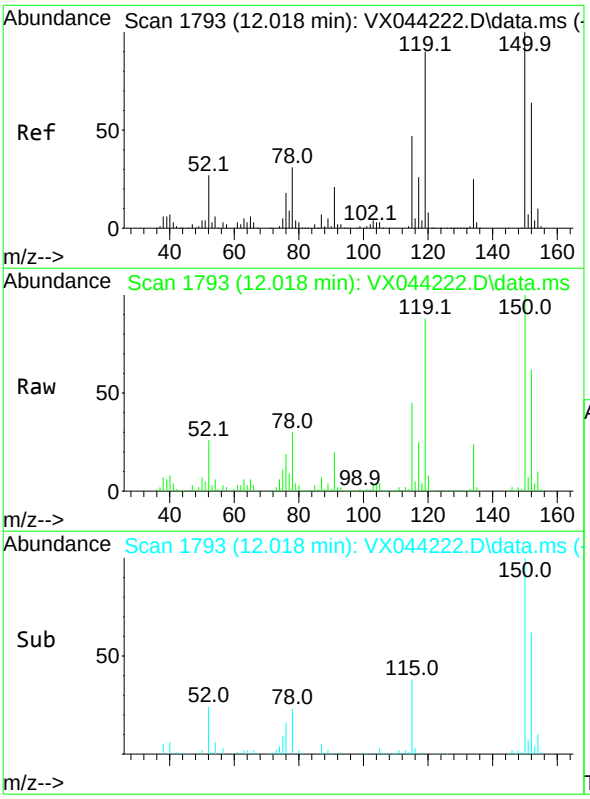
Ion	Ratio	Lower	Upper
173	100		
175	47.6	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

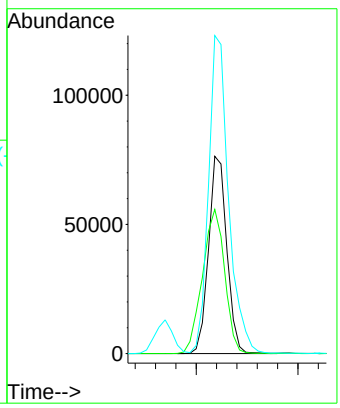
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

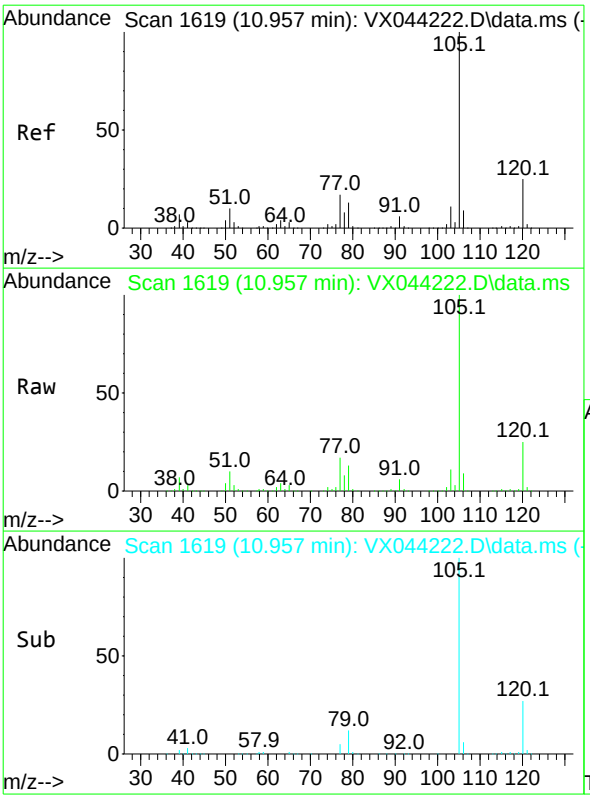


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:152 Resp: 95227

Ion	Ratio	Lower	Upper
152	100		
115	88.9	44.5	133.3
150	176.9	0.0	353.8

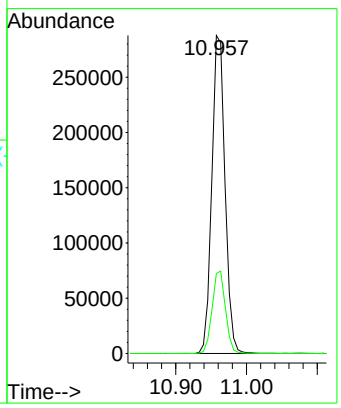




#73
Isopropylbenzene
Concen: 51.100 ug/l
RT: 10.957 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:105 Resp: 372519

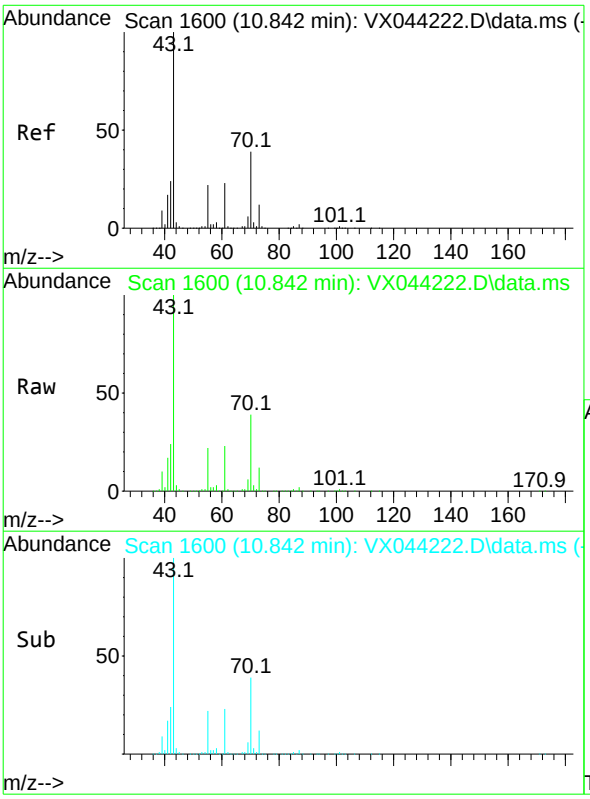
Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

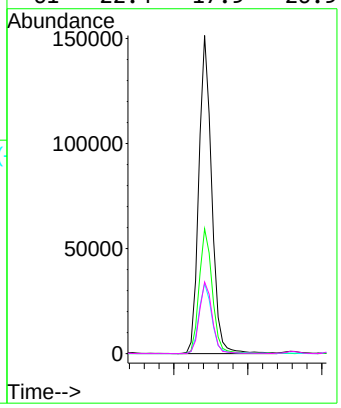
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

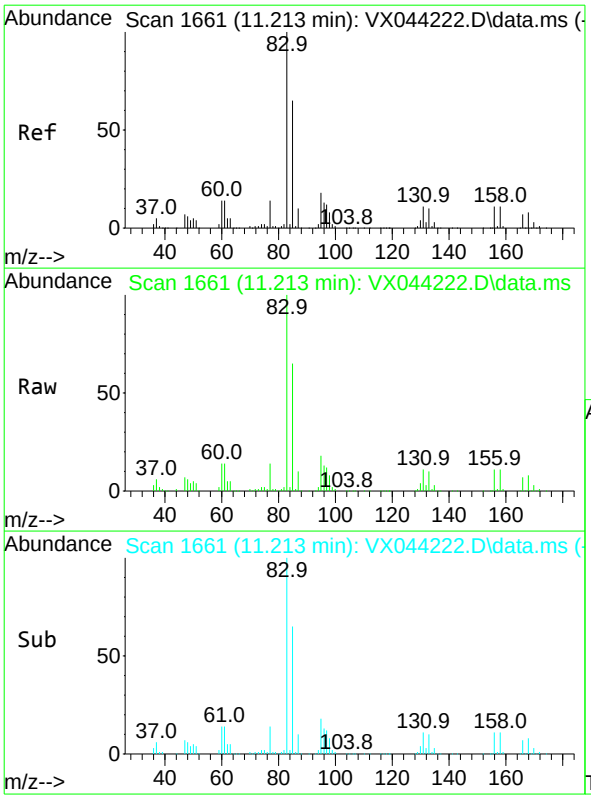


#74
N-amyl acetate
Concen: 54.166 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 182491

Ion	Ratio	Lower	Upper
43	100		
70	39.9	31.9	47.9
55	22.4	17.9	26.9
61	22.4	17.9	26.9

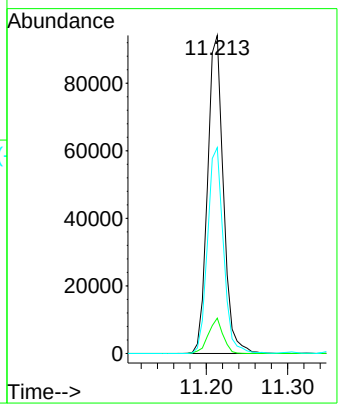




#75
1,1,2,2-Tetrachloroethane
Concen: 50.233 ug/l
RT: 11.213 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 83 Resp: 127193

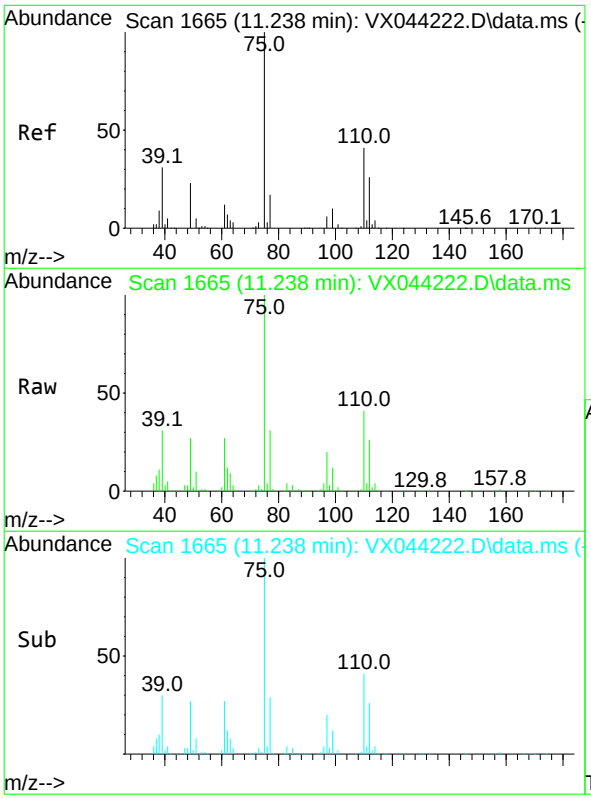
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	64.9	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

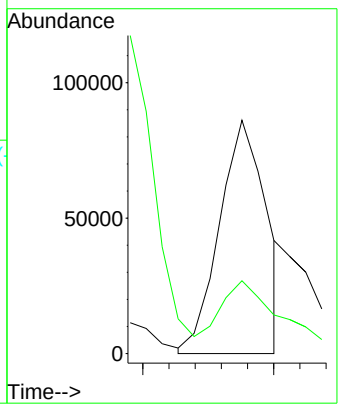
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

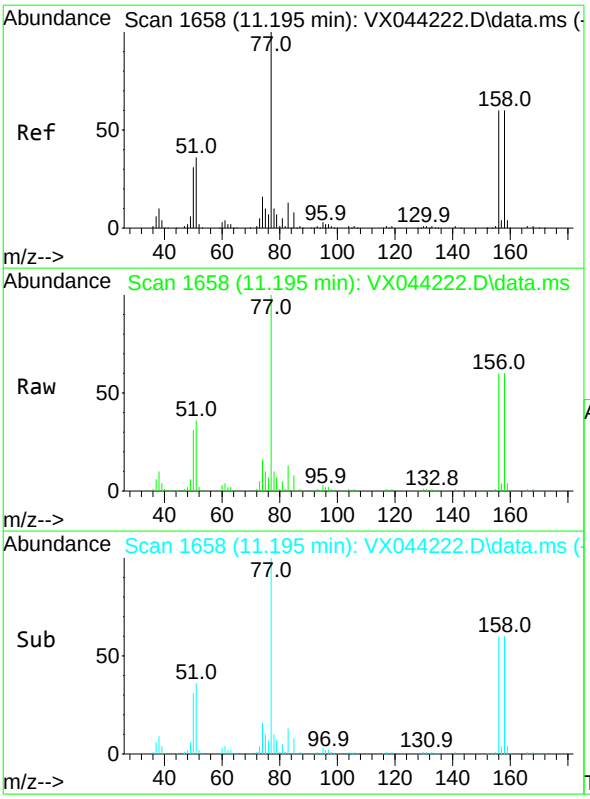


#76
1,2,3-Trichloropropane
Concen: 49.518 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 107003

Ion	Ratio	Lower	Upper
75	100		
77	41.8	20.9	62.7





#77
Bromobenzene
Concen: 50.734 ug/l
RT: 11.195 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

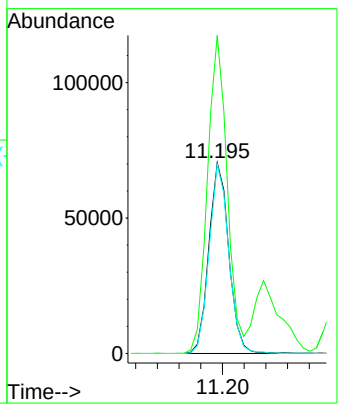
Tgt Ion:156 Resp: 89687

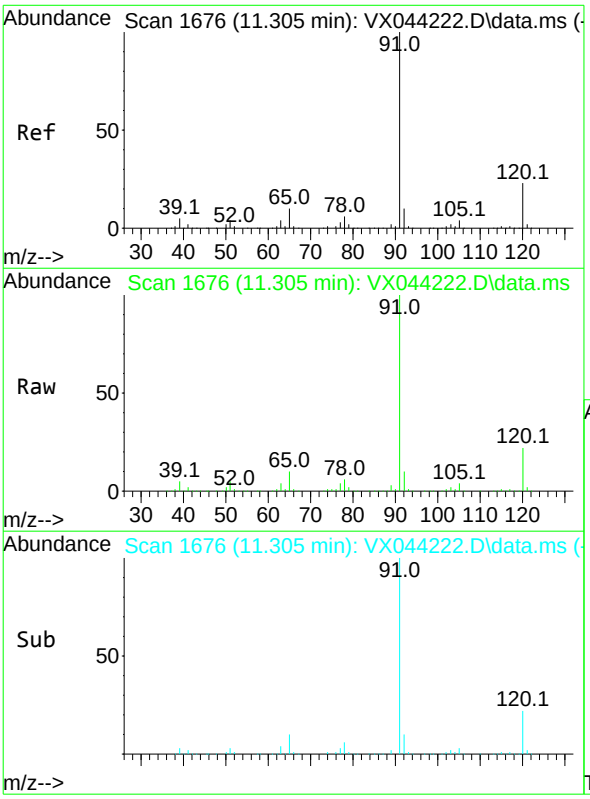
Ion	Ratio	Lower	Upper
156	100		
77	165.2	82.6	247.8
158	97.6	48.8	146.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

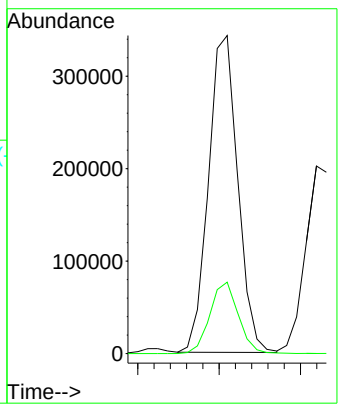


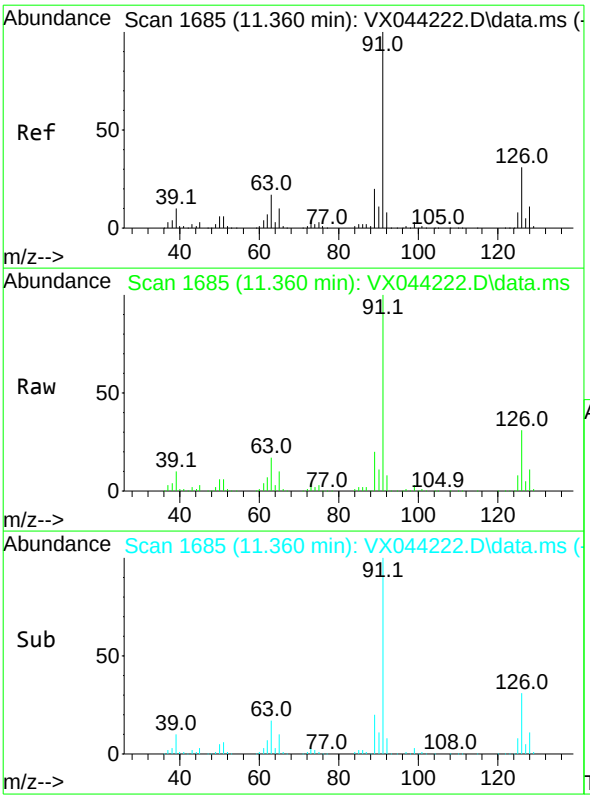


#78
n-propylbenzene
Concen: 53.211 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 91 Resp: 428741

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.0	33.0

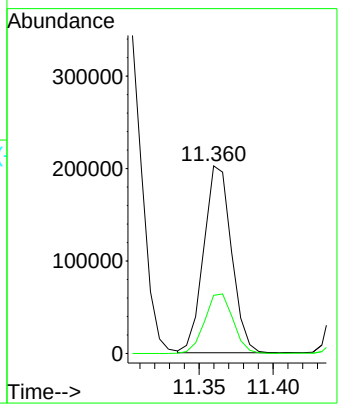




#79
2-Chlorotoluene
Concen: 50.634 ug/l
RT: 11.360 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 91 Resp: 263849

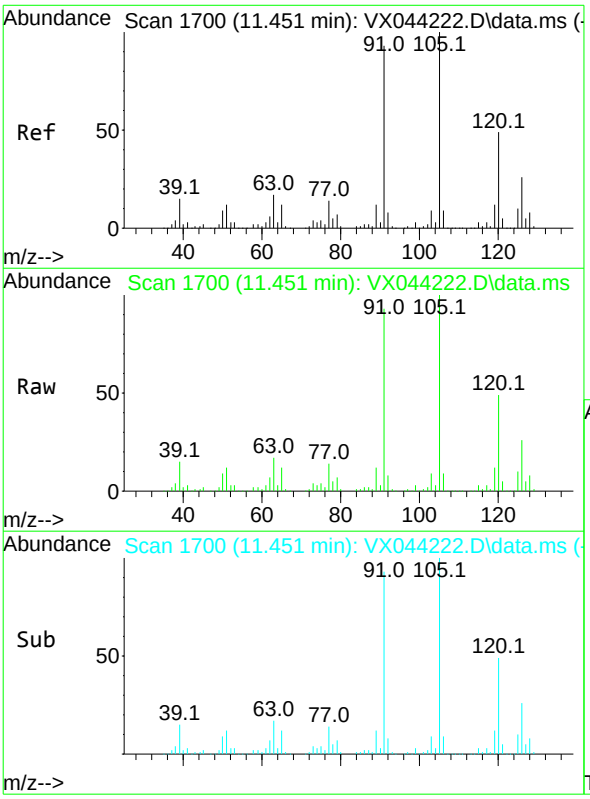
Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

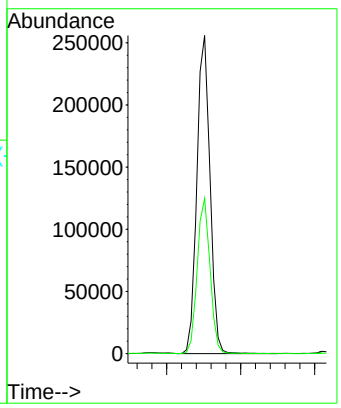
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

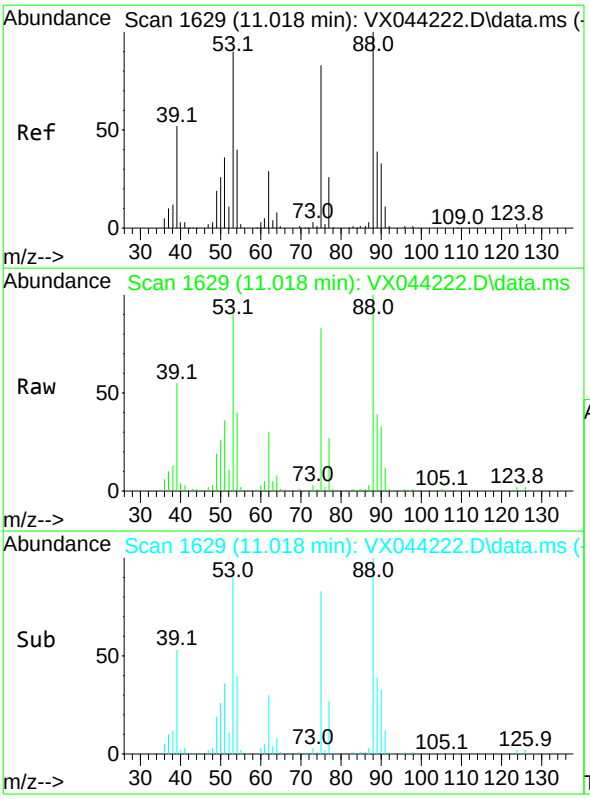


#80
1,3,5-Trimethylbenzene
Concen: 52.102 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:105 Resp: 314986

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.4

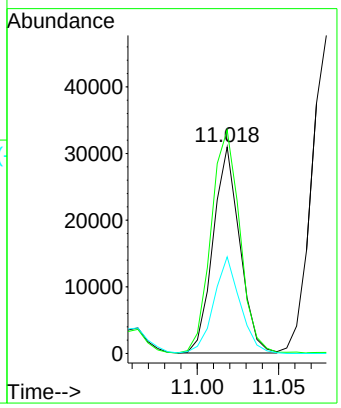




#81
trans-1,4-Dichloro-2-butene
Concen: 47.628 ug/l
RT: 11.018 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 35119

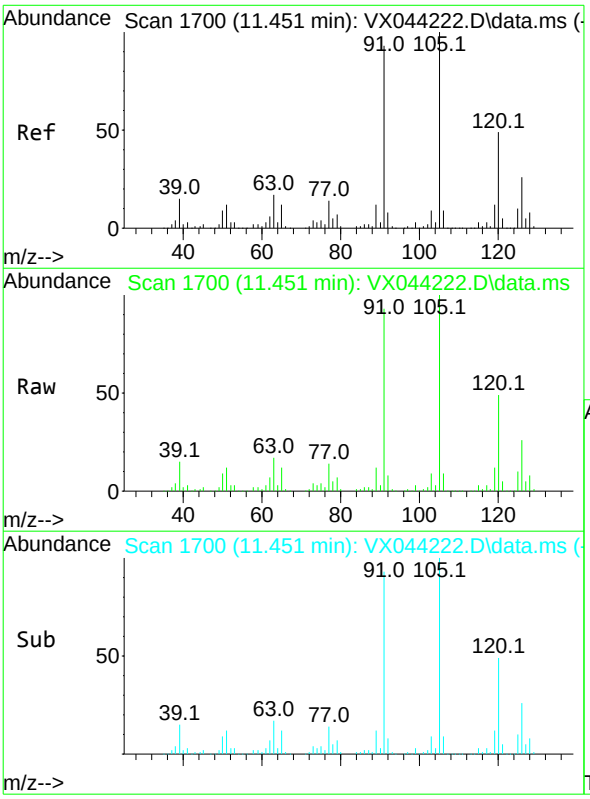
Ion	Ratio	Lower	Upper
75	100		
53	117.0	93.6	140.4
89	46.6	37.3	55.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

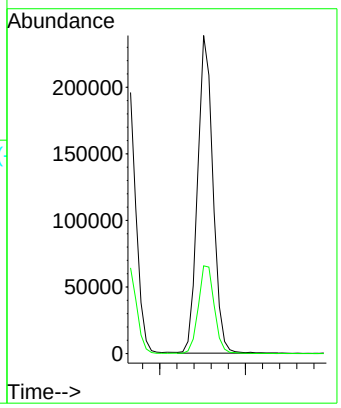
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

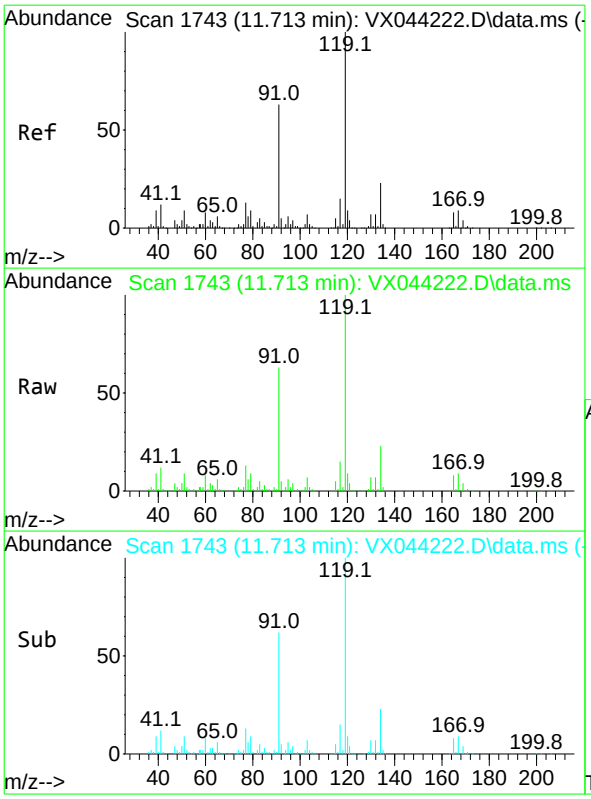


#82
4-Chlorotoluene
Concen: 51.387 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 91 Resp: 296520

Ion	Ratio	Lower	Upper
91	100		
126	29.0	14.5	43.5

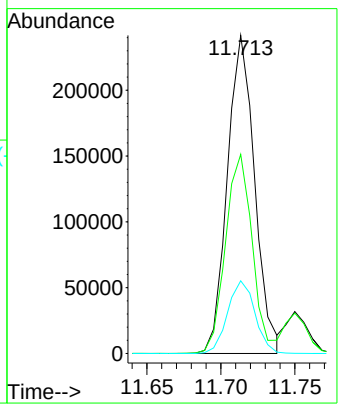




#83
tert-Butylbenzene
Concen: 51.940 ug/l
RT: 11.713 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:119 Resp: 310320

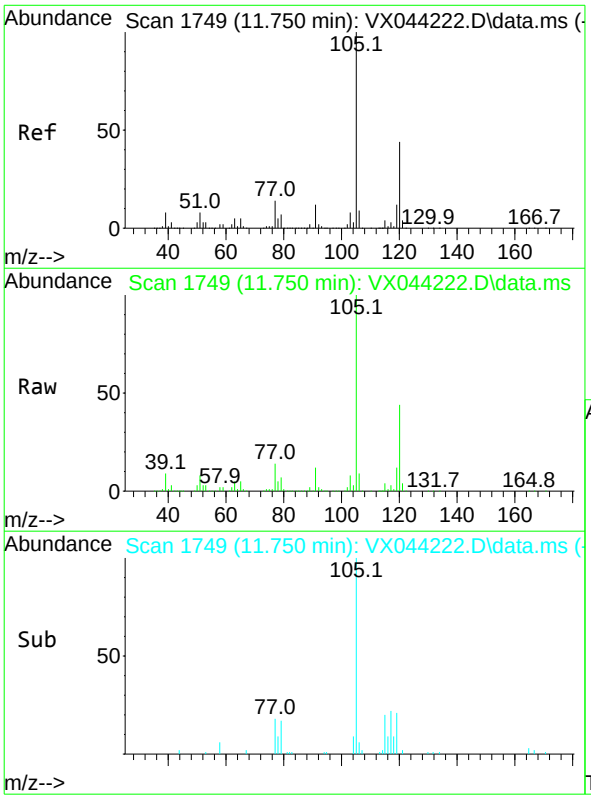
Ion	Ratio	Lower	Upper
119	100		
91	61.7	30.9	92.5
134	22.9	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

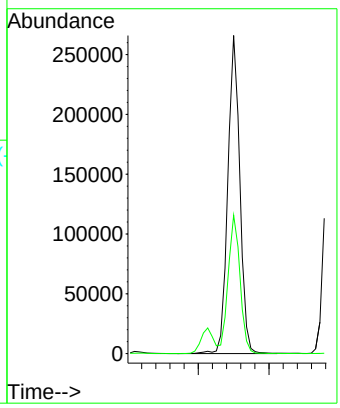
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

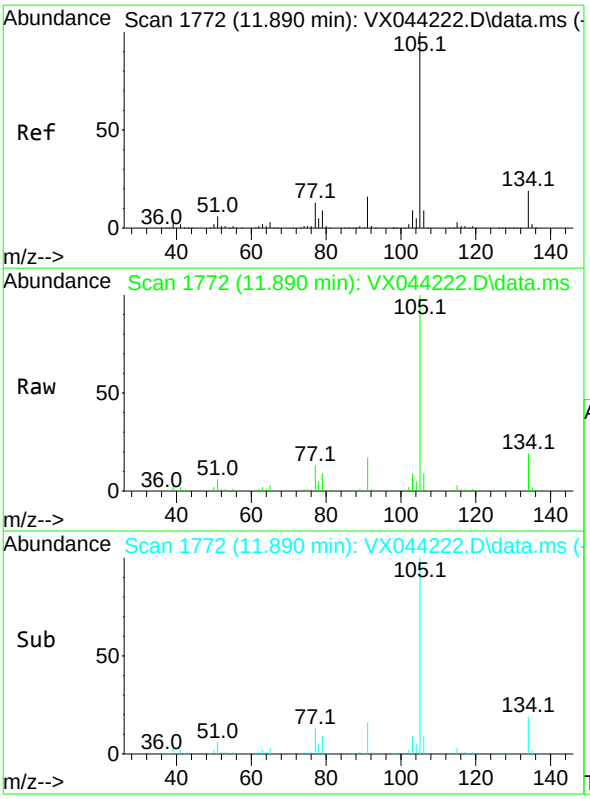


#84
1,2,4-Trimethylbenzene
Concen: 52.776 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:105 Resp: 313338

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.7	65.1





#85
sec-Butylbenzene
Concen: 52.329 ug/l
RT: 11.890 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

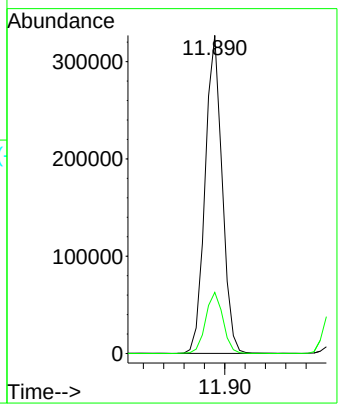
Tgt Ion:105 Resp: 379552

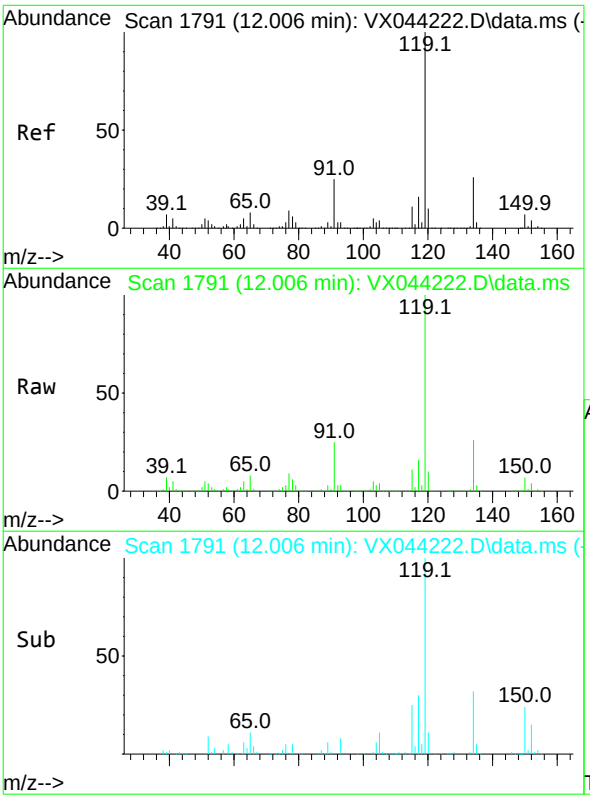
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

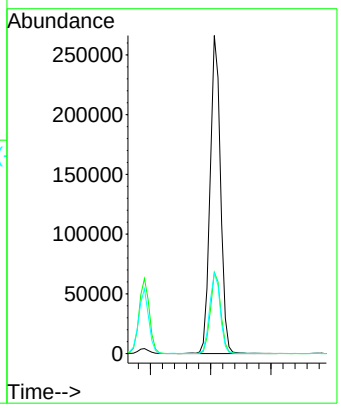


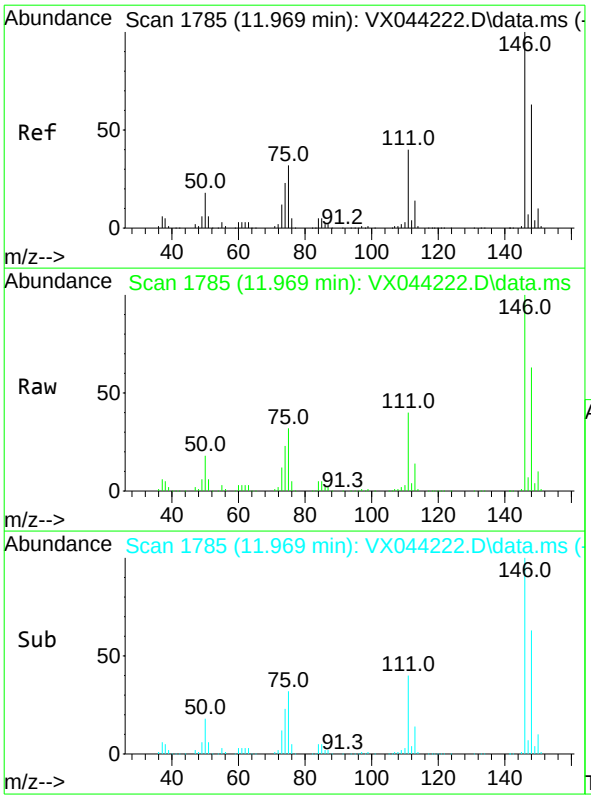


#86
p-Isopropyltoluene
Concen: 52.796 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:119 Resp: 318721

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.4
91	26.0	13.0	39.0

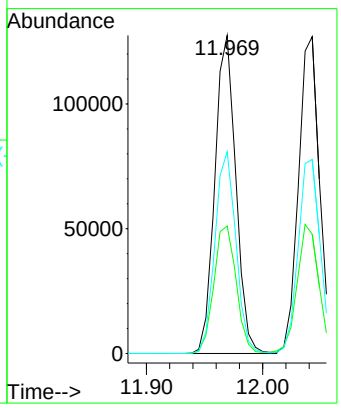




#87
1,3-Dichlorobenzene
Concen: 51.887 ug/l
RT: 11.969 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:146 Resp: 160223

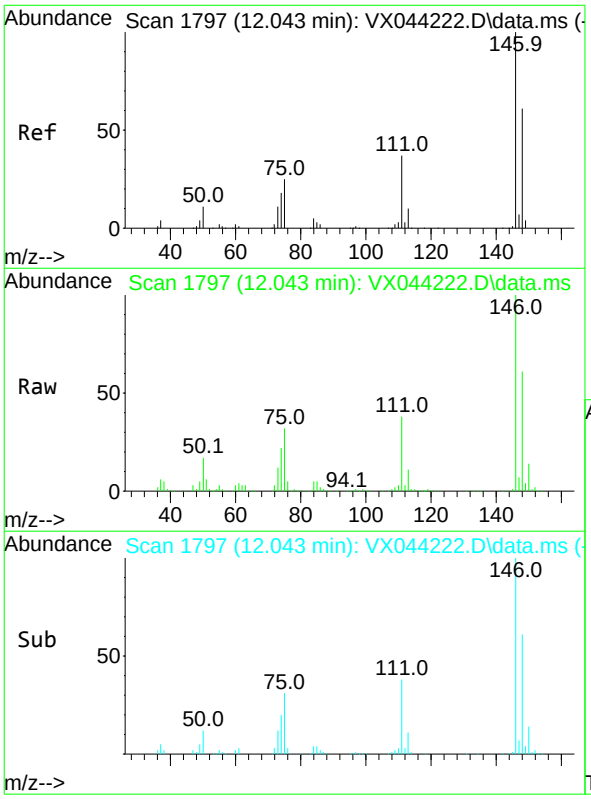
Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.4	64.2
148	63.4	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

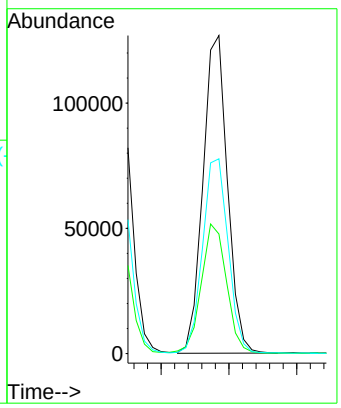
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

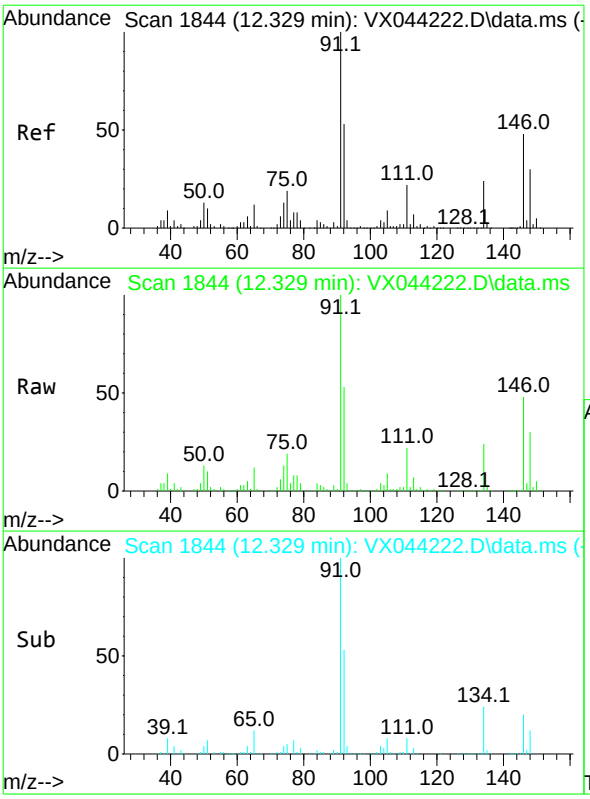


#88
1,4-Dichlorobenzene
Concen: 50.171 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:146 Resp: 159258

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.0	63.0
148	64.5	32.3	96.8





#89
n-Butylbenzene
Concen: 53.354 ug/l
RT: 12.329 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

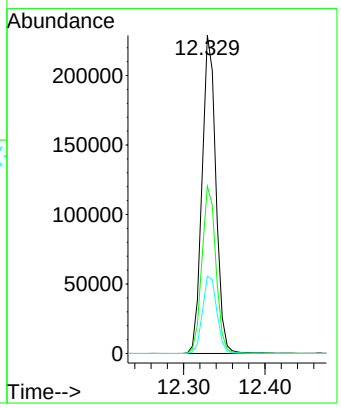
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

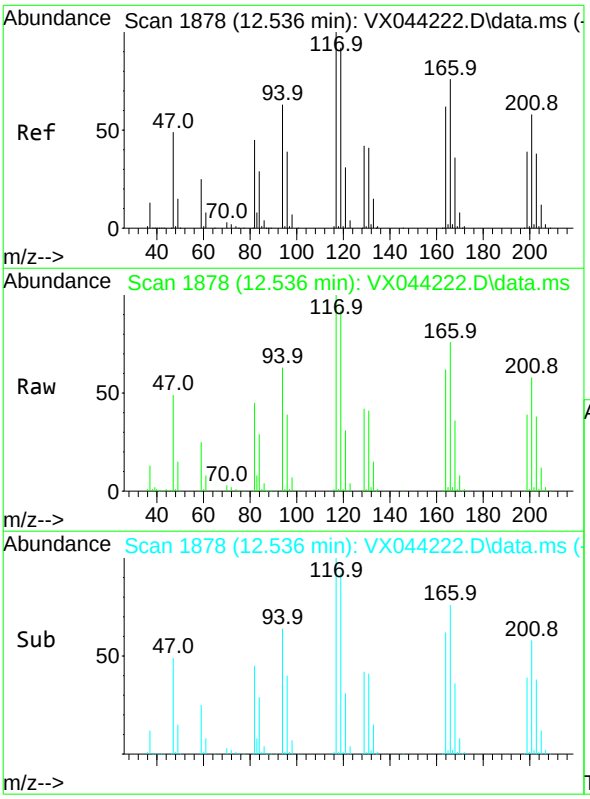
Tgt Ion: 91 Resp: 270840

Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.6	79.7
134	25.2	12.6	37.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

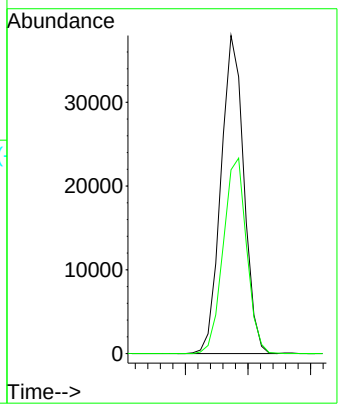


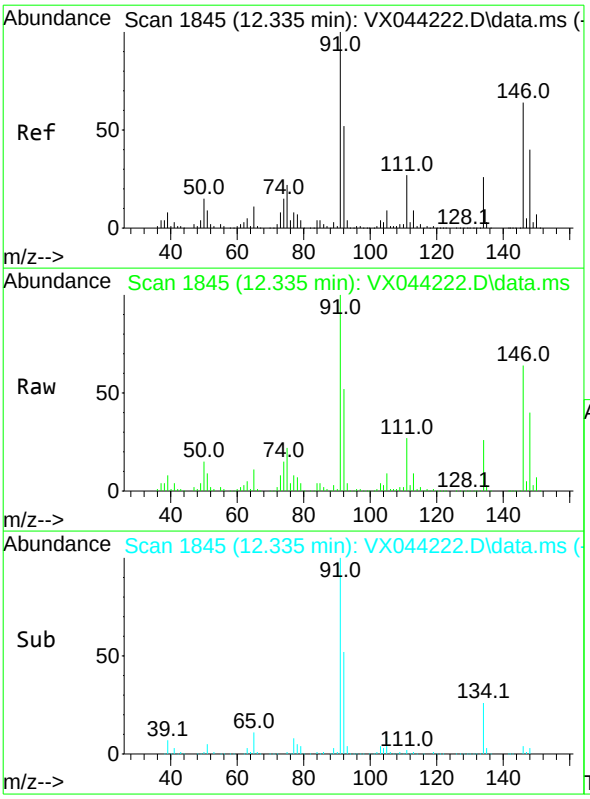


#90
Hexachloroethane
Concen: 54.813 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:117 Resp: 48303

Ion	Ratio	Lower	Upper
117	100		
201	62.8	31.4	94.2

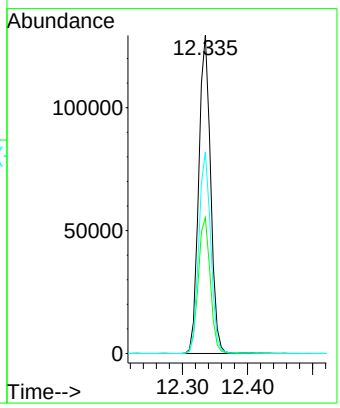




#91
1,2-Dichlorobenzene
Concen: 51.256 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:146 Resp: 164342

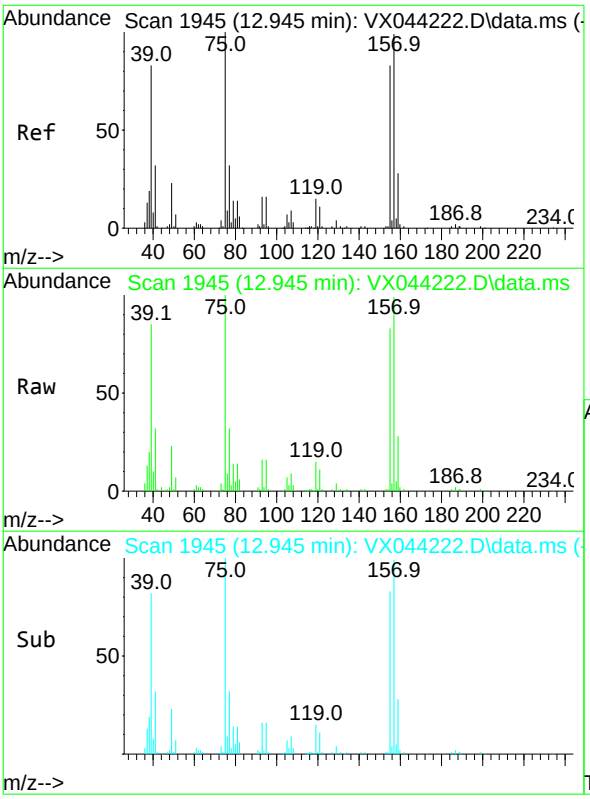
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.4	64.3
148	63.3	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

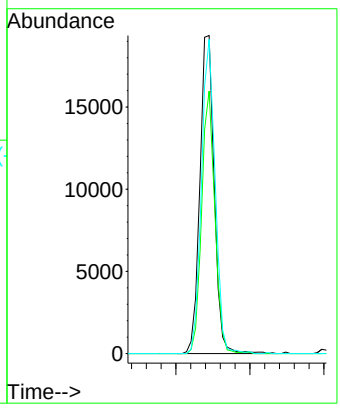
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

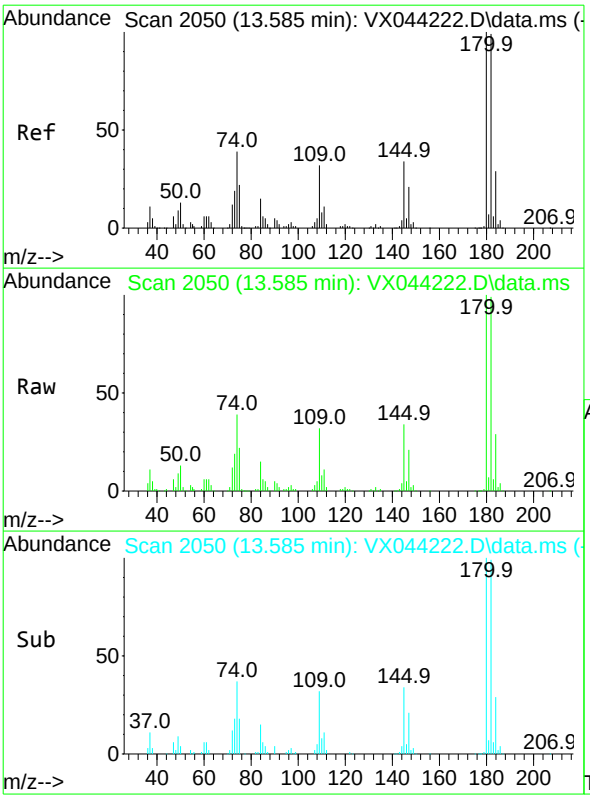


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.951 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 26027

Ion	Ratio	Lower	Upper
75	100		
155	76.2	38.1	114.3
157	94.4	47.2	141.6

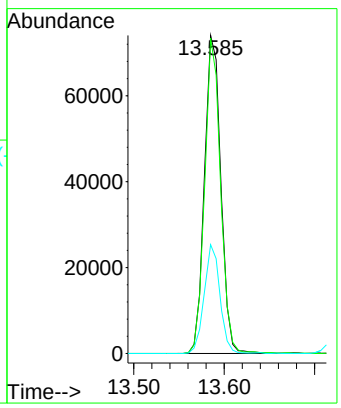




#93
1,2,4-Trichlorobenzene
Concen: 53.005 ug/l
RT: 13.585 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:180 Resp: 93173

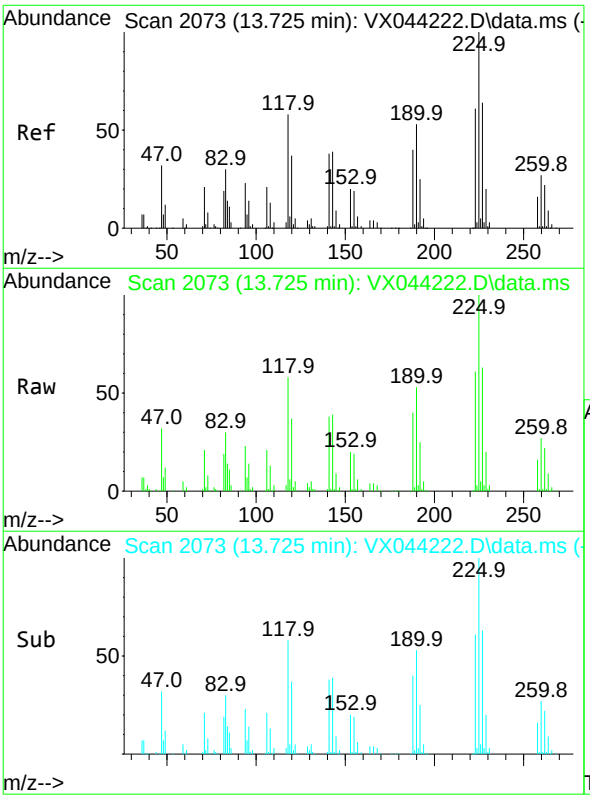
Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.0	144.2
145	33.1	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

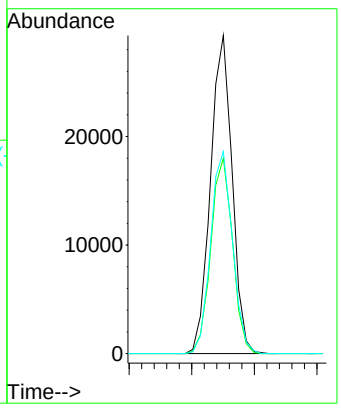
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

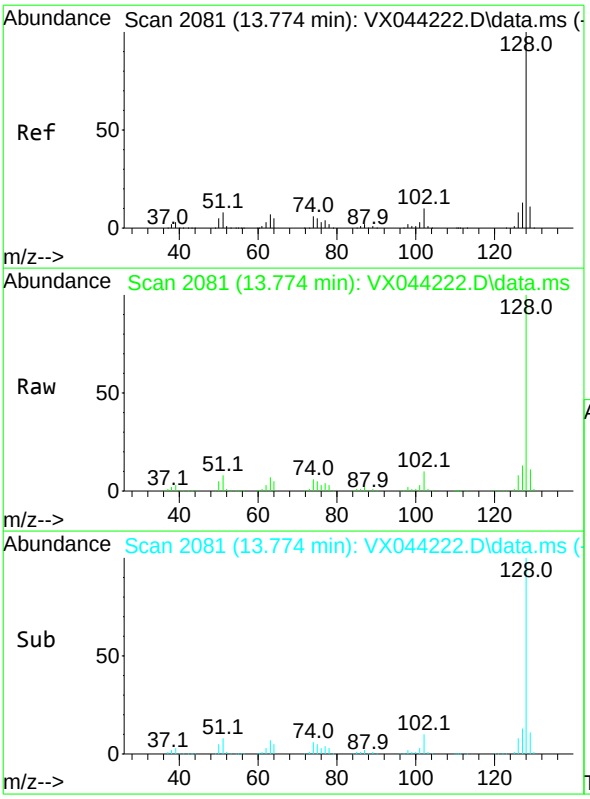


#94
Hexachlorobutadiene
Concen: 49.744 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:225 Resp: 35172

Ion	Ratio	Lower	Upper
225	100		
223	61.6	30.8	92.4
227	64.2	32.1	96.3

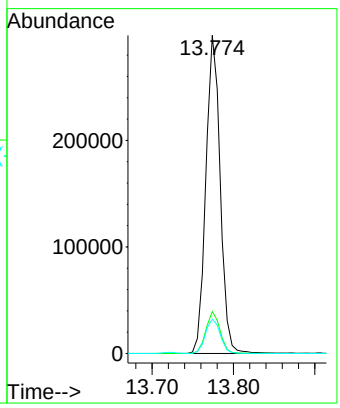




#95
Naphthalene
Concen: 53.230 ug/l
RT: 13.774 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:128 Resp: 365234

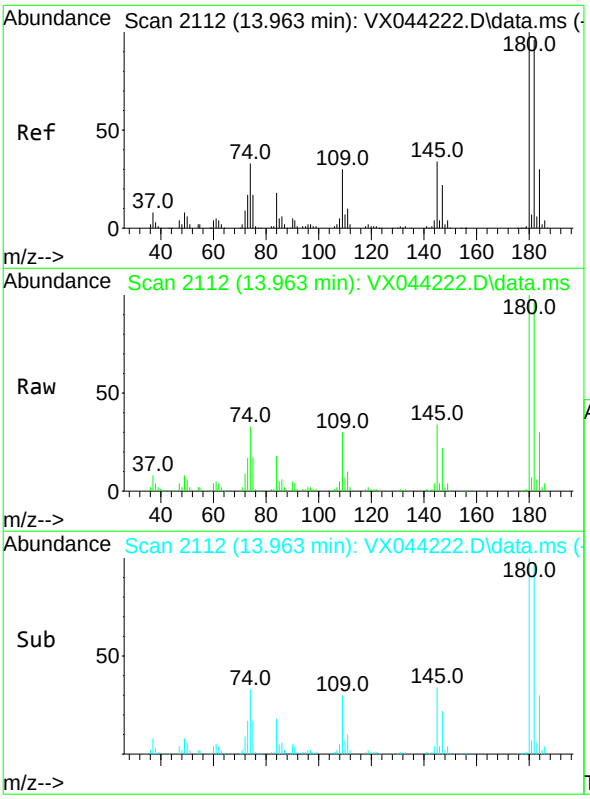
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	11.2	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

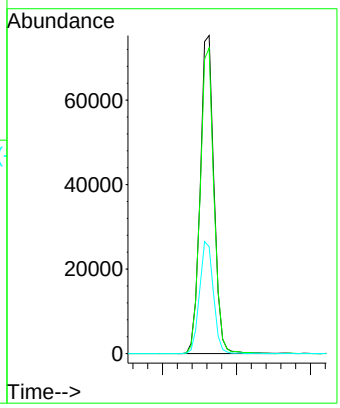
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 52.027 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:180 Resp: 97000

Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.0
145	35.4	17.7	53.1



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.550	168	130101	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	235738	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.055	117	209164	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	97670	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.952	65	224292	98.326 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 196.660%#		
35) Dibromofluoromethane	5.379	113	169582	103.866 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 207.740%#		
50) Toluene-d8	8.647	98	579477	105.201 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 210.400%#		
62) 4-Bromofluorobenzene	11.079	95	203694	105.830 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 211.660%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.167	85	193785	96.329 ug/l	97
3) Chloromethane	1.295	50	186167	96.774 ug/l	99
4) Vinyl Chloride	1.374	62	187739	93.675 ug/l	99
5) Bromomethane	1.593	94	137770	96.897 ug/l	97
6) Chloroethane	1.660	64	109912	88.074 ug/l	95
7) Trichlorofluoromethane	1.862	101	384622	98.030 ug/l	98
8) Diethyl Ether	2.136	74	124039	92.618 ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	149151	93.944 ug/l	99
10) Methyl Iodide	2.441	142	203545	97.275 ug/l	100
11) Tert butyl alcohol	3.008	59	173139	539.406 ug/l	100
12) 1,1-Dichloroethene	2.307	96	144268	98.930 ug/l	100
13) Acrolein	2.240	56	226037	485.718 ug/l	99
14) Allyl chloride	2.654	41	244602	100.703 ug/l	99
15) Acrylonitrile	3.069	53	446747	501.661 ug/l	99
16) Acetone	2.392	43	452955	487.065 ug/l	97
17) Carbon Disulfide	2.496	76	320036	115.453 ug/l	99
18) Methyl Acetate	2.709	43	230998	96.338 ug/l	97
19) Methyl tert-butyl Ether	3.117	73	564545	99.205 ug/l	99
20) Methylene Chloride	2.782	84	168498	96.466 ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	154797	99.880 ug/l	98
22) Diisopropyl ether	3.764	45	538742	98.498 ug/l	99
23) Vinyl Acetate	3.721	43	2395923	538.801 ug/l	100
24) 1,1-Dichloroethane	3.605	63	304626	99.915 ug/l	99
25) 2-Butanone	4.568	43	662768	501.306 ug/l	99
26) 2,2-Dichloropropane	4.471	77	258092	104.201 ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	190127	96.593 ug/l	99
28) Bromochloromethane	4.891	49	144783	96.842 ug/l	99
29) Tetrahydrofuran	5.007	42	412666	486.290 ug/l	99
30) Chloroform	5.093	83	331047	96.642 ug/l	98
31) Cyclohexane	5.458	56	239879	97.433 ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	291065	102.363 ug/l	99
36) 1,1-Dichloropropene	5.684	75	209732	99.376 ug/l	98
37) Ethyl Acetate	4.721	43	266307	102.079 ug/l	100
38) Carbon Tetrachloride	5.672	117	236869	104.249 ug/l	96
39) Methylcyclohexane	7.373	83	259368	102.800 ug/l	98
40) Benzene	6.032	78	638055	99.575 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.928	41	140375	101.332 ug/l		99
42) 1,2-Dichloroethane	6.086	62	261991	99.255 ug/l		99
43) Isopropyl Acetate	6.342	43	427893	104.939 ug/l		99
44) Trichloroethene	7.123	130	158990	99.497 ug/l		99
45) 1,2-Dichloropropane	7.428	63	160913	98.293 ug/l		97
46) Dibromomethane	7.580	93	130316	102.607 ug/l		99
47) Bromodichloromethane	7.818	83	244401	111.423 ug/l		100
48) Methyl methacrylate	7.696	41	203116	102.618 ug/l		99
49) 1,4-Dioxane	7.665	88	73434m	2170.871 ug/l		
51) 4-Methyl-2-Pentanone	8.574	43	1322678	504.496 ug/l		99
52) Toluene	8.714	92	396383	98.506 ug/l		100
53) t-1,3-Dichloropropene	8.976	75	248092	99.321 ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	263014	110.127 ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	157366	98.441 ug/l		98
56) Ethyl methacrylate	9.116	69	271146	107.442 ug/l		99
57) 1,3-Dichloropropane	9.305	76	274642	98.704 ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	671233	527.342 ug/l		100
59) 2-Hexanone	9.433	43	989466	521.401 ug/l		99
60) Dibromochloromethane	9.519	129	178135	99.480 ug/l		99
61) 1,2-Dibromoethane	9.610	107	171458	105.371 ug/l		97
64) Tetrachloroethene	9.269	164	130678	94.131 ug/l		97
65) Chlorobenzene	10.080	112	433179	96.650 ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	153882	106.831 ug/l		99
67) Ethyl Benzene	10.195	91	765930	98.906 ug/l		97
68) m/p-Xylenes	10.299	106	571648	201.171 ug/l		99
69) o-Xylene	10.640	106	280603	97.597 ug/l		100
70) Styrene	10.653	104	480077	104.159 ug/l		97
71) Bromoform	10.799	173	112482	99.723 ug/l	#	98
73) Isopropylbenzene	10.964	105	731955	97.894 ug/l		99
74) N-amyl acetate	10.842	43	371420	107.485 ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.214	83	245395	94.491 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	206786m	93.302 ug/l		
77) Bromobenzene	11.195	156	175647	96.874 ug/l		98
78) n-propylbenzene	11.305	91	836676	101.242 ug/l		99
79) 2-Chlorotoluene	11.366	91	504407	94.377 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	604993	97.570 ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	78453	97.165 ug/l		94
82) 4-Chlorotoluene	11.451	91	588197	99.384 ug/l		99
83) tert-Butylbenzene	11.713	119	606738	99.013 ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	614999	100.994 ug/l		100
85) sec-Butylbenzene	11.890	105	743098	99.889 ug/l		100
86) p-Isopropyltoluene	12.006	119	624416	100.847 ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	317377	100.210 ug/l		99
88) 1,4-Dichlorobenzene	12.043	146	316688	97.271 ug/l		99
89) n-Butylbenzene	12.329	91	564303	108.385 ug/l		99
90) Hexachloroethane	12.536	117	105946	117.218 ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	323040	98.232 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	54588	108.279 ug/l		93
93) 1,2,4-Trichlorobenzene	13.585	180	197899	109.766 ug/l		98
94) Hexachlorobutadiene	13.725	225	72453	99.908 ug/l		97
95) Naphthalene	13.774	128	755181	107.308 ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	206053	107.754 ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

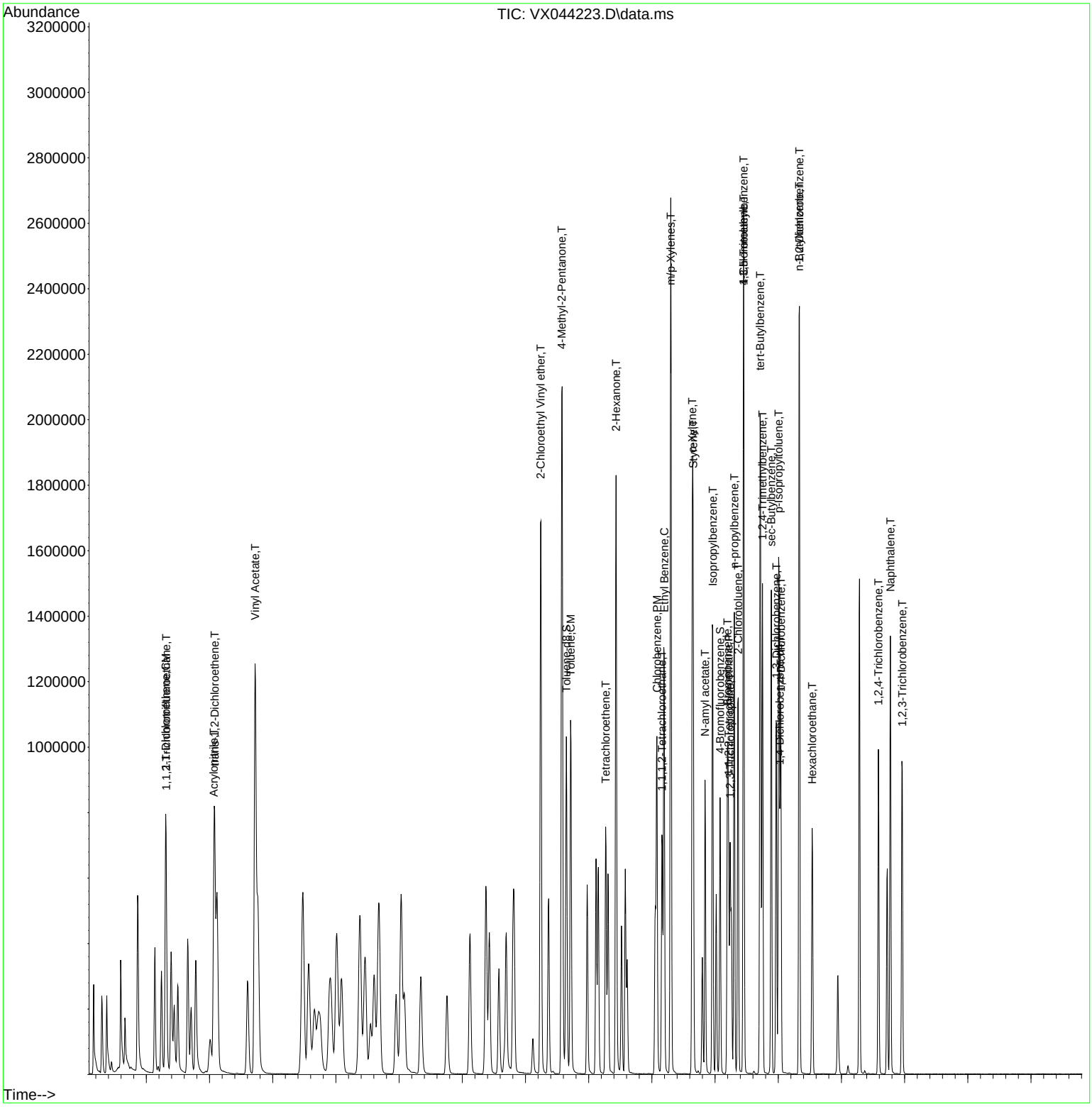
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

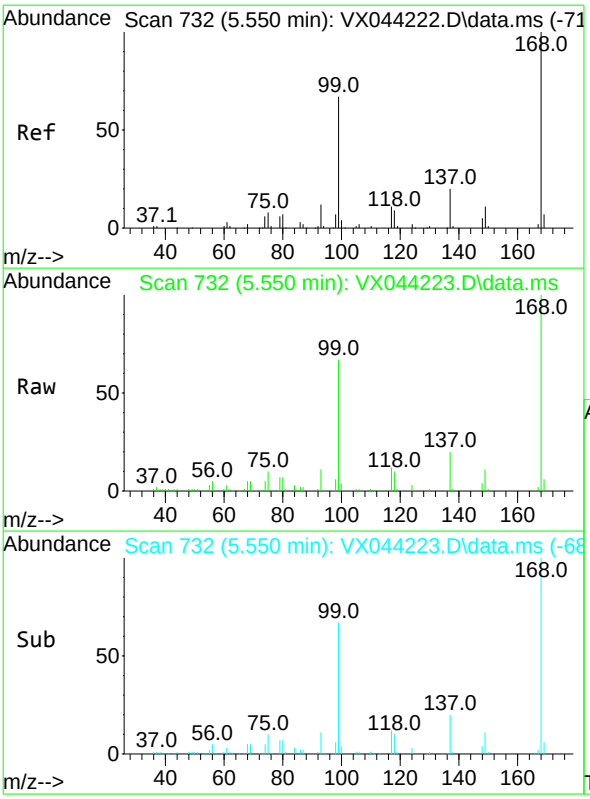
Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

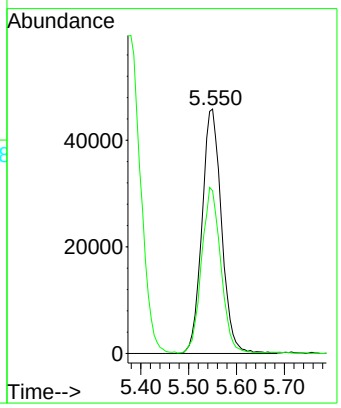




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:168 Resp: 130101

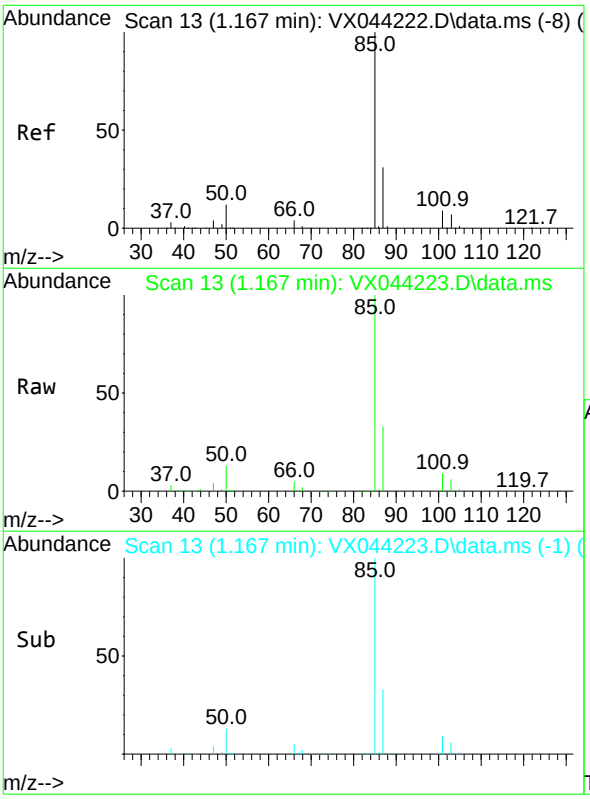
Ion	Ratio	Lower	Upper
168	100		
99	66.4	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

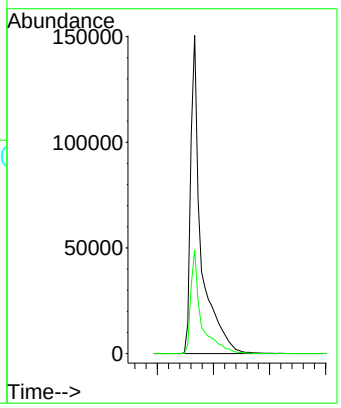
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

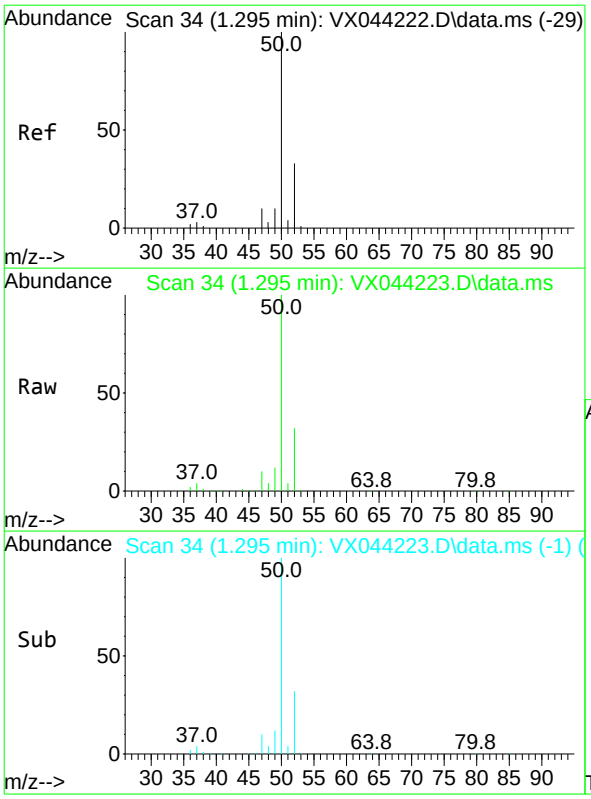


#2
Dichlorodifluoromethane
Concen: 96.329 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 85 Resp: 193785

Ion	Ratio	Lower	Upper
85	100		
87	32.6	15.4	46.4

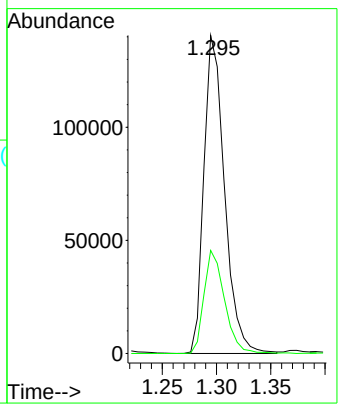




#3
Chloromethane
Concen: 96.774 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 50 Resp: 186167

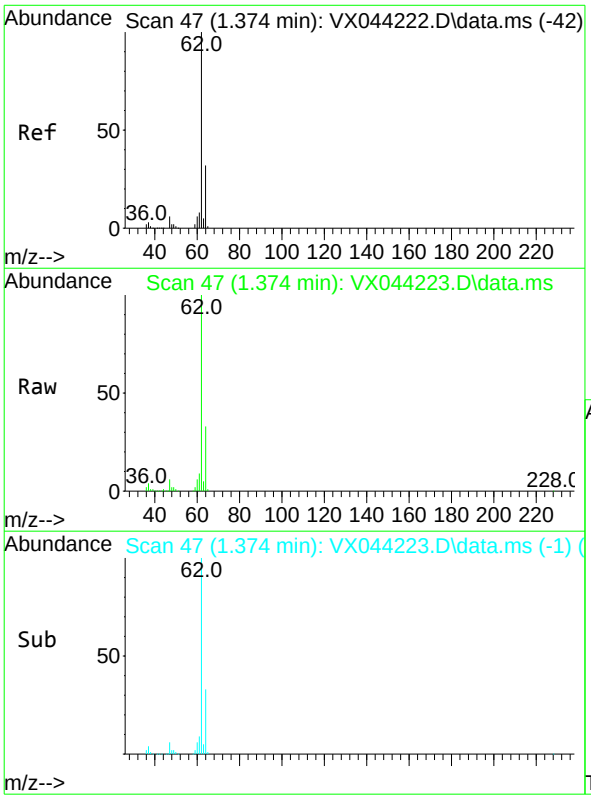
Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

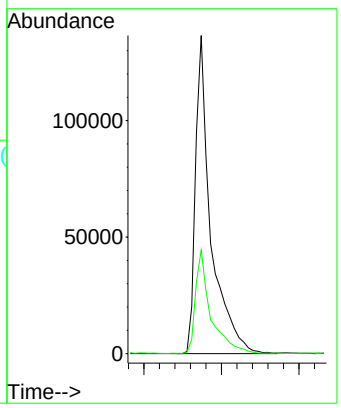
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

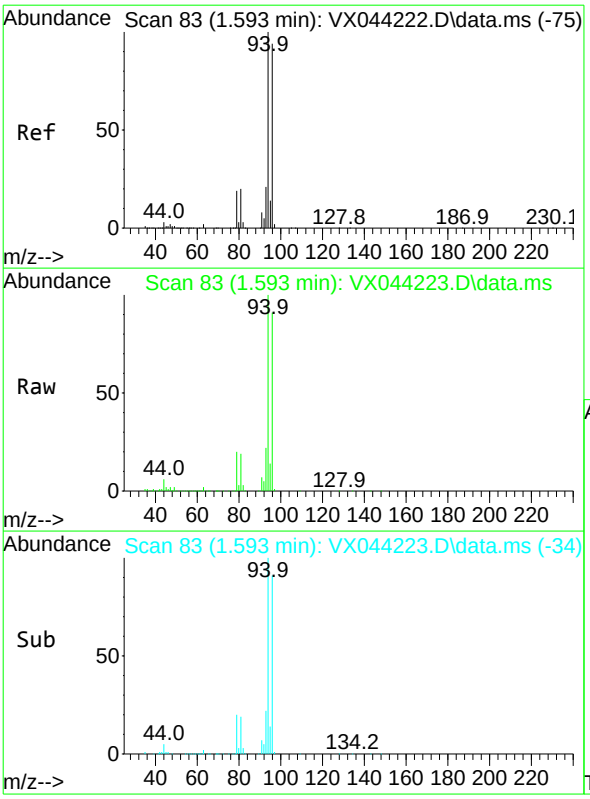


#4
Vinyl Chloride
Concen: 93.675 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 62 Resp: 187739

Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.7	38.5

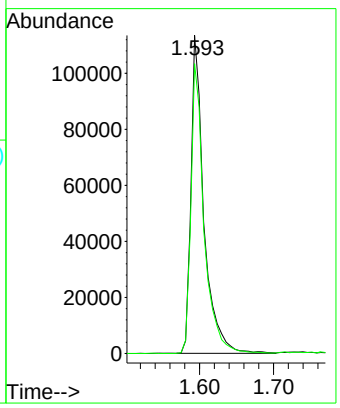




#5
Bromomethane
Concen: 96.897 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 94 Resp: 137770

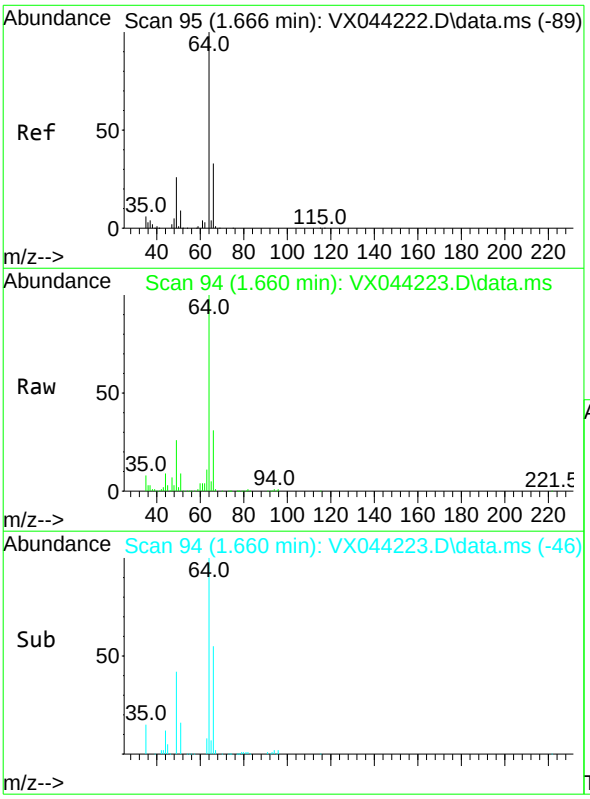
Ion	Ratio	Lower	Upper
94	100		
96	91.1	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

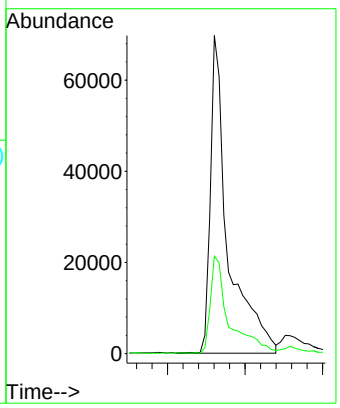
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

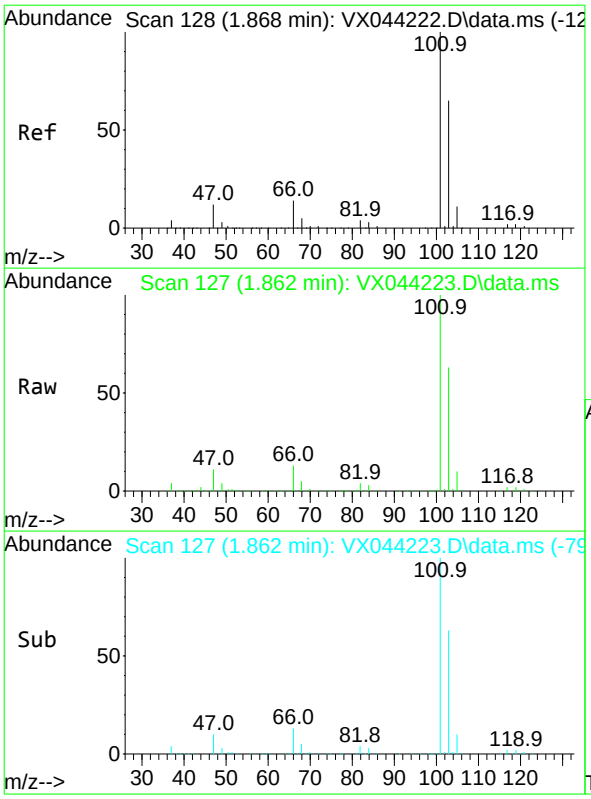


#6
Chloroethane
Concen: 88.074 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 64 Resp: 109912

Ion	Ratio	Lower	Upper
64	100		
66	30.5	26.6	39.8

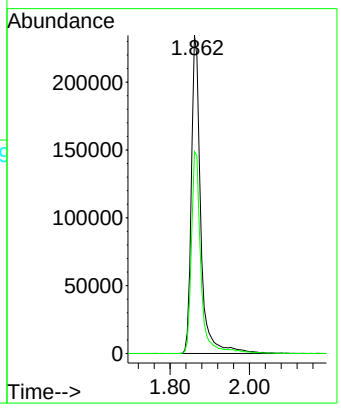




#7
Trichlorofluoromethane
Concen: 98.030 ug/l
RT: 1.862 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:101 Resp: 384622

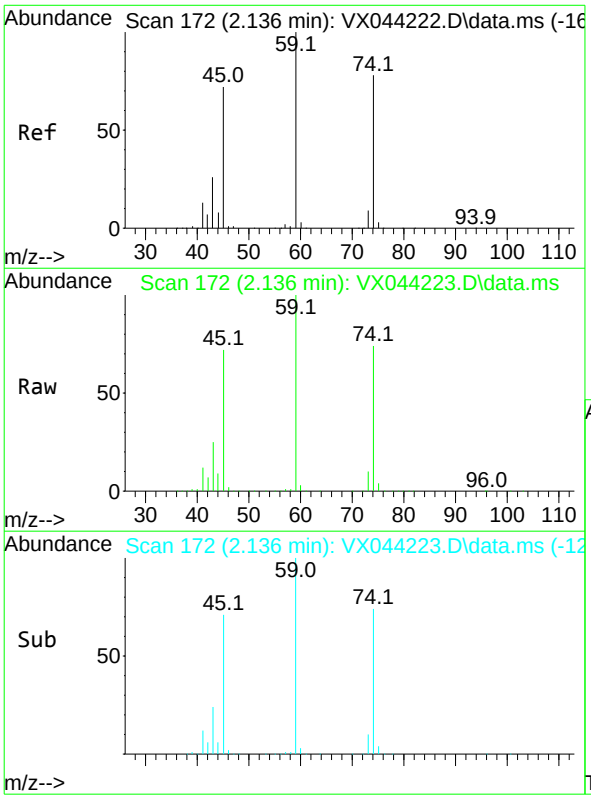
Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

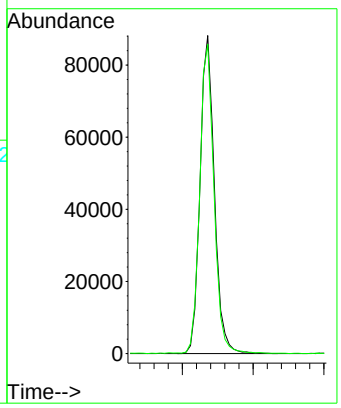
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

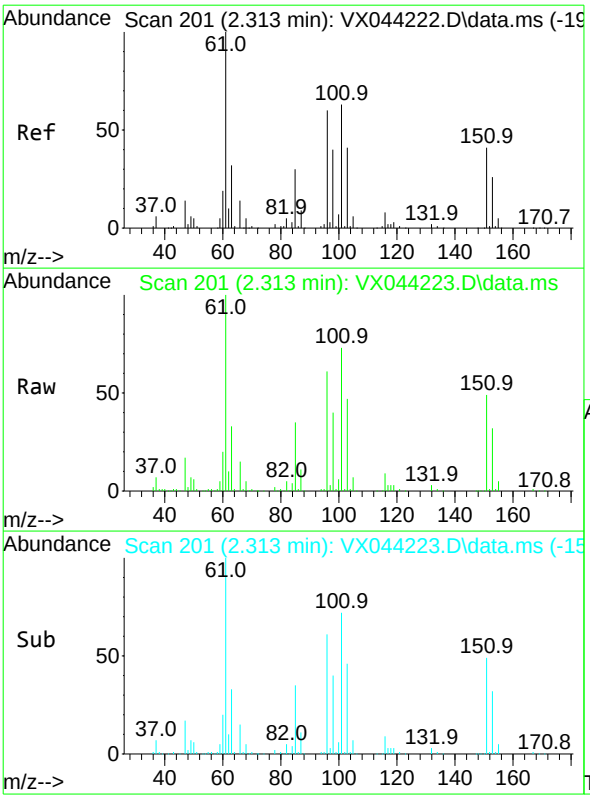


#8
Diethyl Ether
Concen: 92.618 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 74 Resp: 124039

Ion	Ratio	Lower	Upper
74	100		
45	96.3	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 93.944 ug/l
RT: 2.313 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

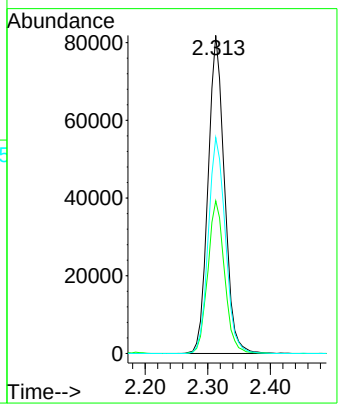
Tgt Ion:101 Resp: 149151

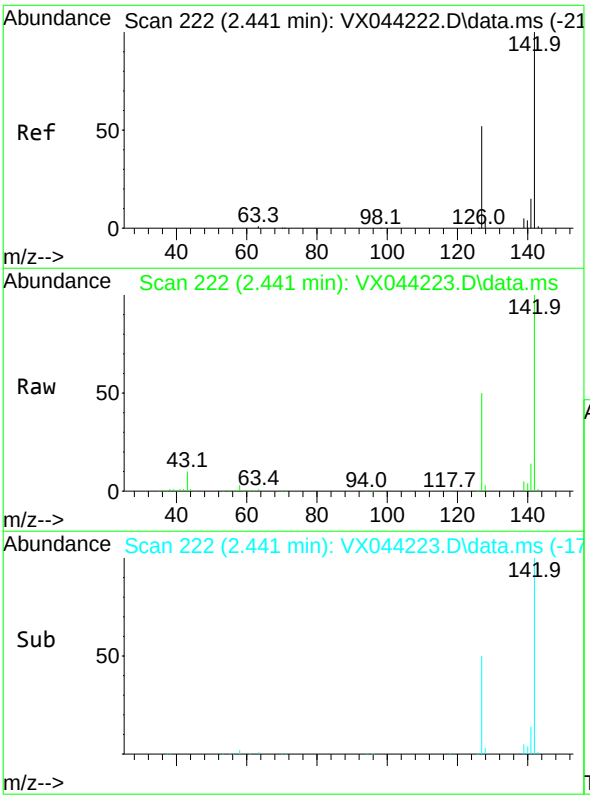
Ion	Ratio	Lower	Upper
101	100		
85	48.9	38.5	57.7
151	70.5	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

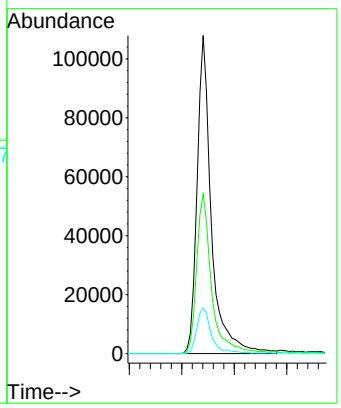


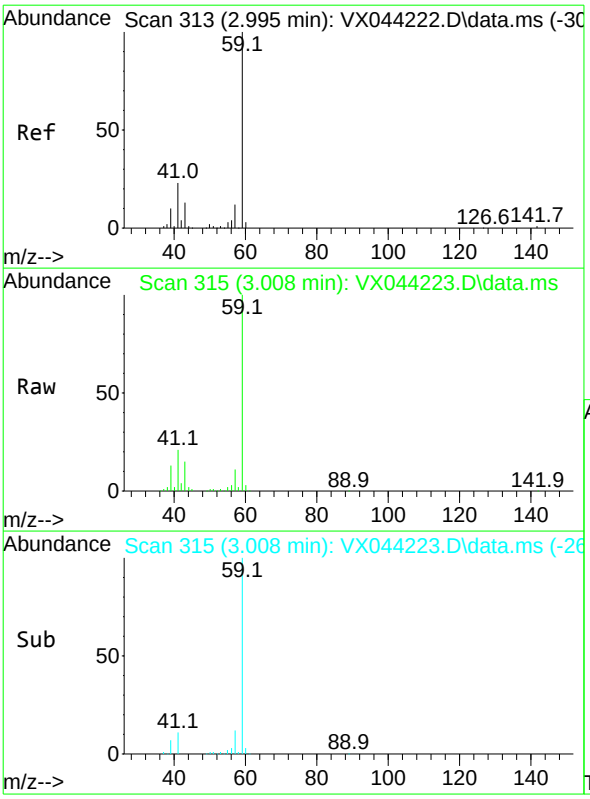


#10
Methyl Iodide
Concen: 97.275 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:142 Resp: 203545

Ion	Ratio	Lower	Upper
142	100		
127	52.4	41.8	62.8
141	14.8	11.5	17.3

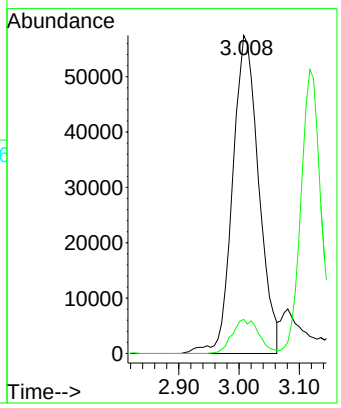




#11
Tert butyl alcohol
Concen: 539.406 ug/l
RT: 3.008 min Scan# 31
Delta R.T. 0.012 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 59 Resp: 173139

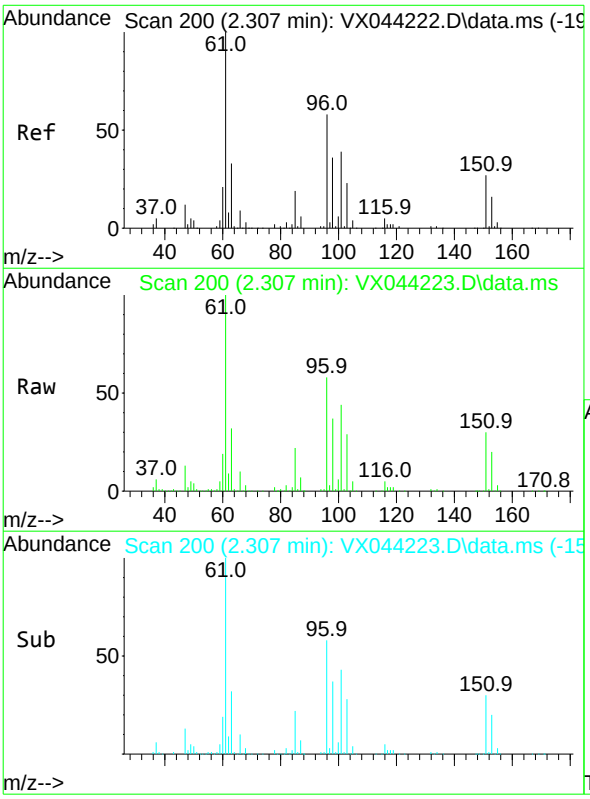
Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

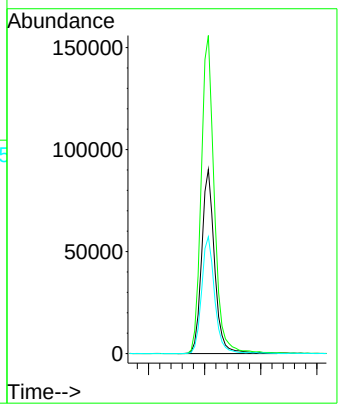
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

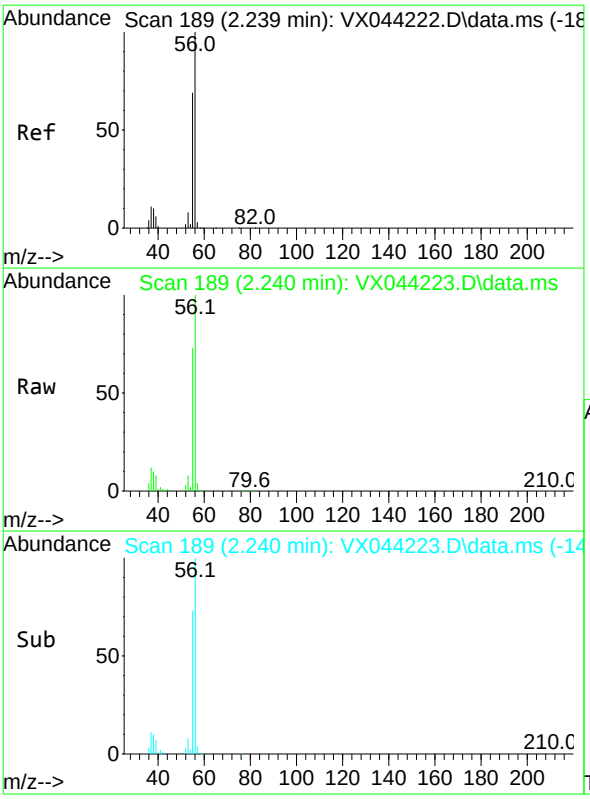


#12
1,1-Dichloroethene
Concen: 98.930 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 96 Resp: 144268

Ion	Ratio	Lower	Upper
96	100		
61	172.7	138.0	207.0
98	63.5	50.0	75.0

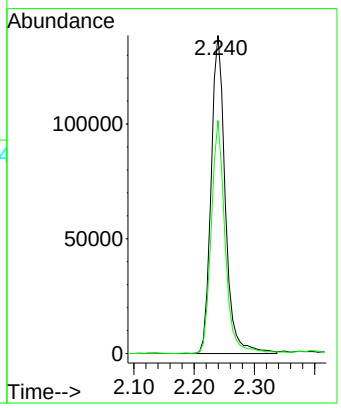




#13
Acrolein
Concen: 485.718 ug/l
RT: 2.240 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 56 Resp: 226037

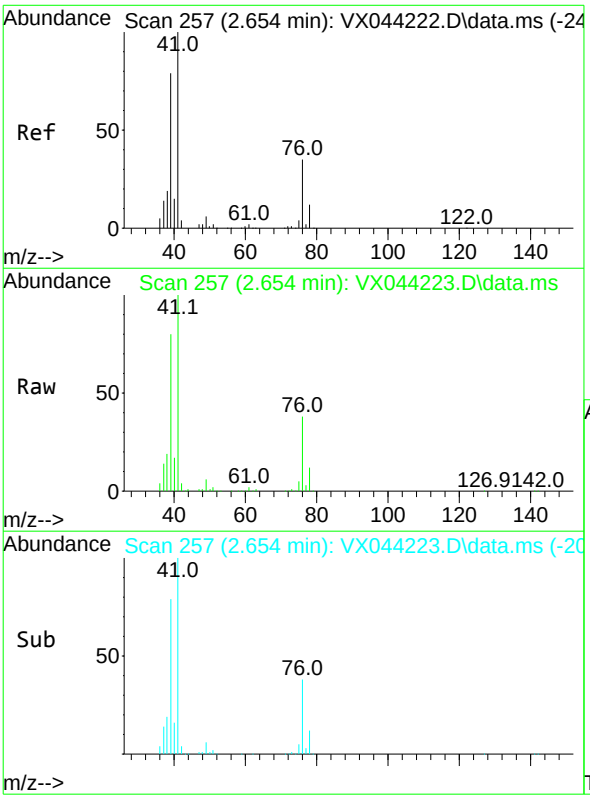
Ion	Ratio	Lower	Upper
56	100		
55	71.7	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

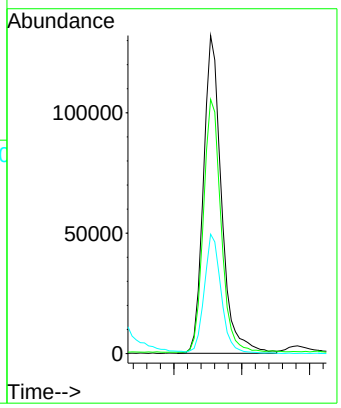
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

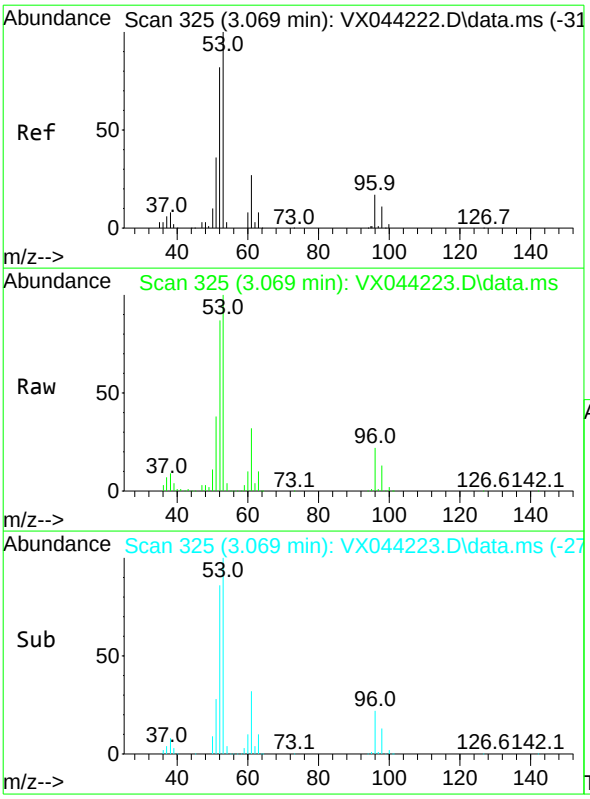


#14
Allyl chloride
Concen: 100.703 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 41 Resp: 244602

Ion	Ratio	Lower	Upper
41	100		
39	77.0	61.9	92.9
76	34.7	27.4	41.2

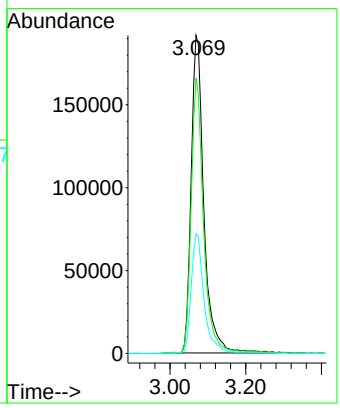




#15
Acrylonitrile
Concen: 501.661 ug/l
RT: 3.069 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 53 Resp: 446747

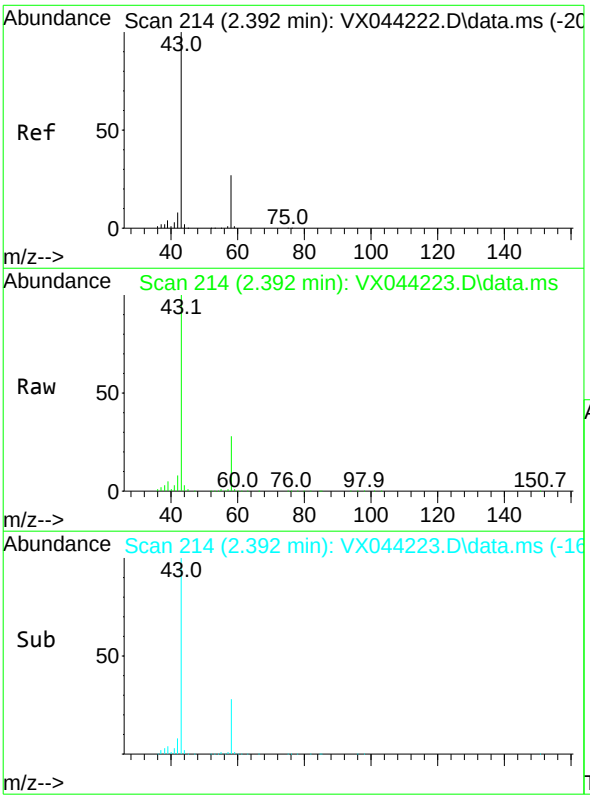
Ion	Ratio	Lower	Upper
53	100		
52	84.0	67.4	101.0
51	37.0	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

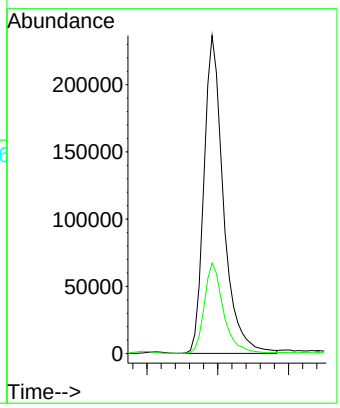
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

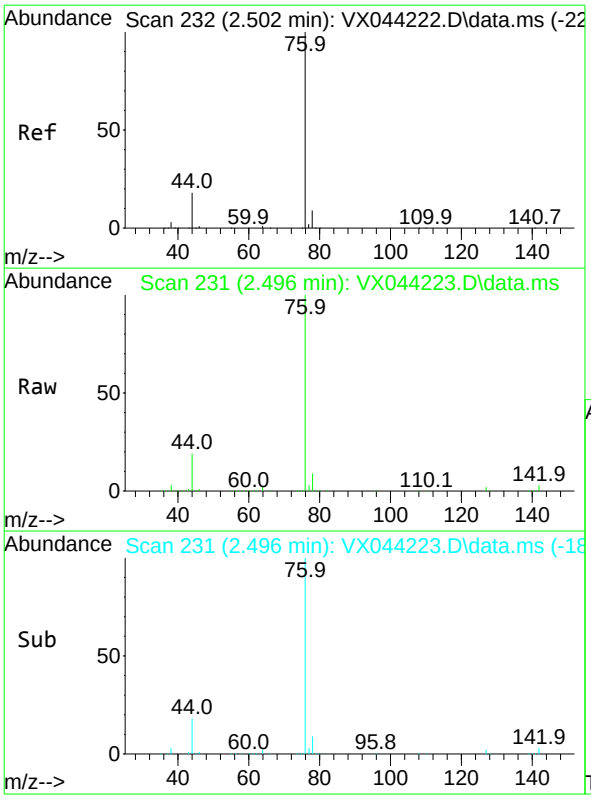


#16
Acetone
Concen: 487.065 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 452955

Ion	Ratio	Lower	Upper
43	100		
58	28.4	21.6	32.4

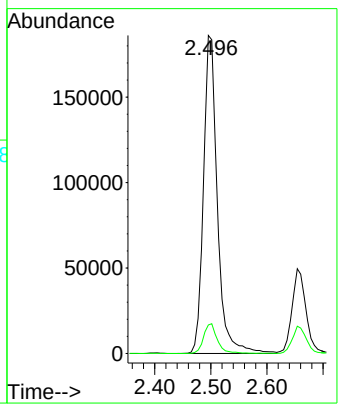




#17
Carbon Disulfide
Concen: 115.453 ug/l
RT: 2.496 min Scan# 23
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 76 Resp: 320036

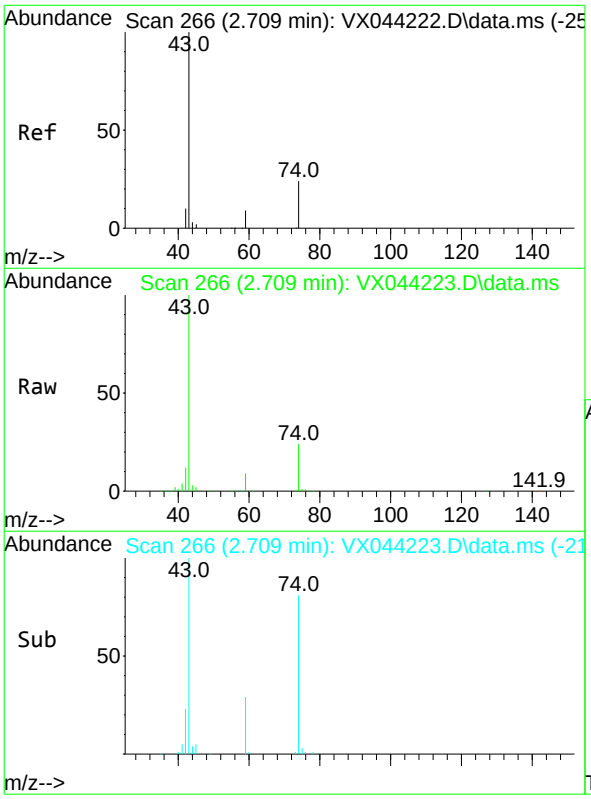
Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

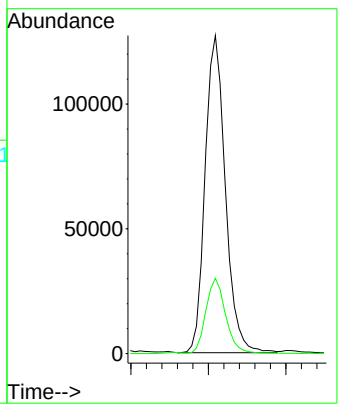
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

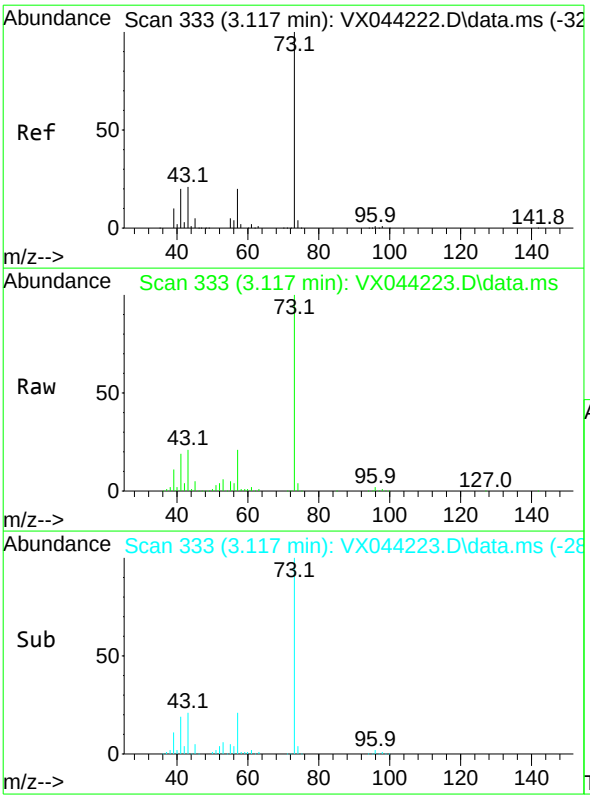


#18
Methyl Acetate
Concen: 96.338 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 230998

Ion	Ratio	Lower	Upper
43	100		
74	23.3	17.7	26.5

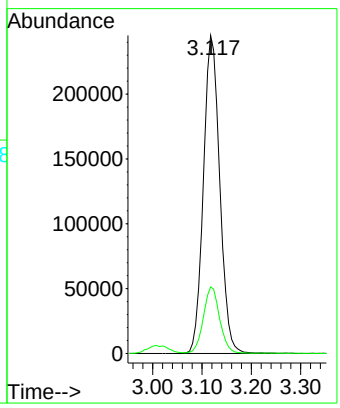




#19
Methyl tert-butyl Ether
Concen: 99.205 ug/l
RT: 3.117 min Scan# 33
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 73 Resp: 564545

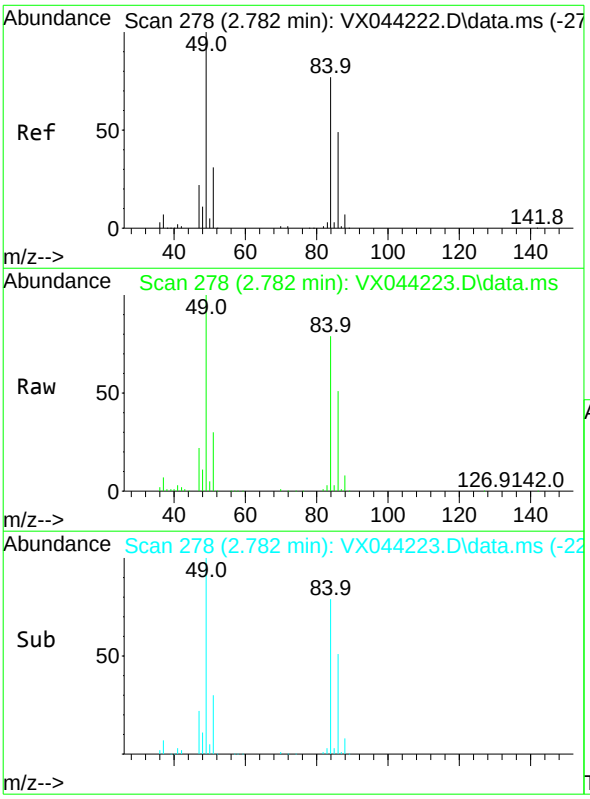
Ion	Ratio	Lower	Upper
73	100		
57	20.8	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

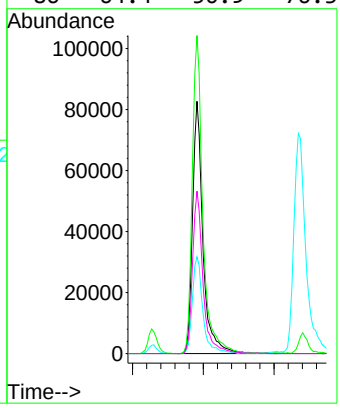
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

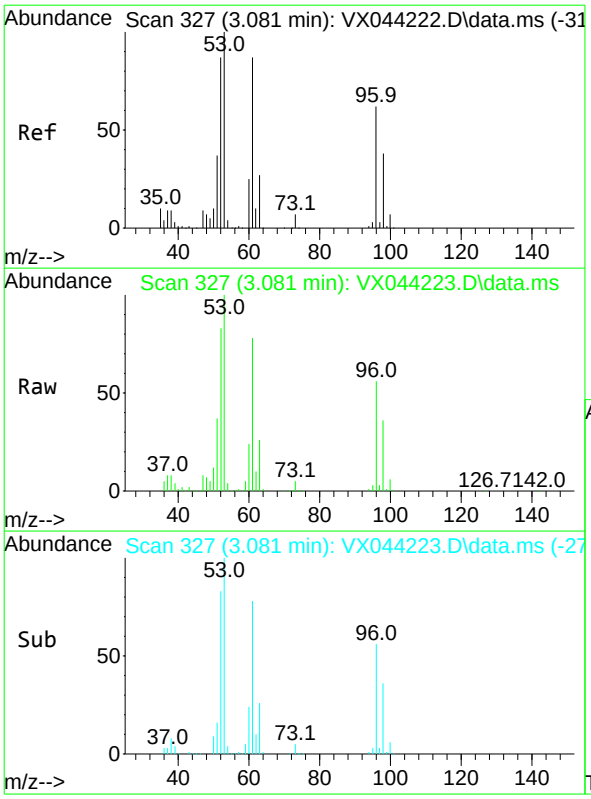


#20
Methylene Chloride
Concen: 96.466 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 84 Resp: 168498

Ion	Ratio	Lower	Upper
84	100		
49	126.1	104.2	156.4
51	38.4	32.2	48.4
86	64.4	50.9	76.3

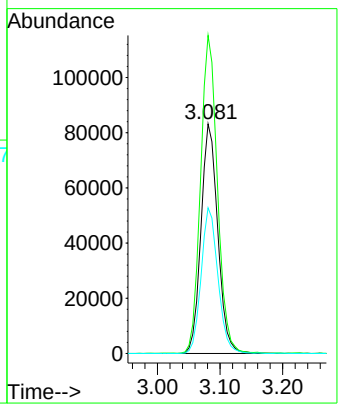




#21
trans-1,2-Dichloroethene
Concen: 99.880 ug/l
RT: 3.081 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 96 Resp: 154797

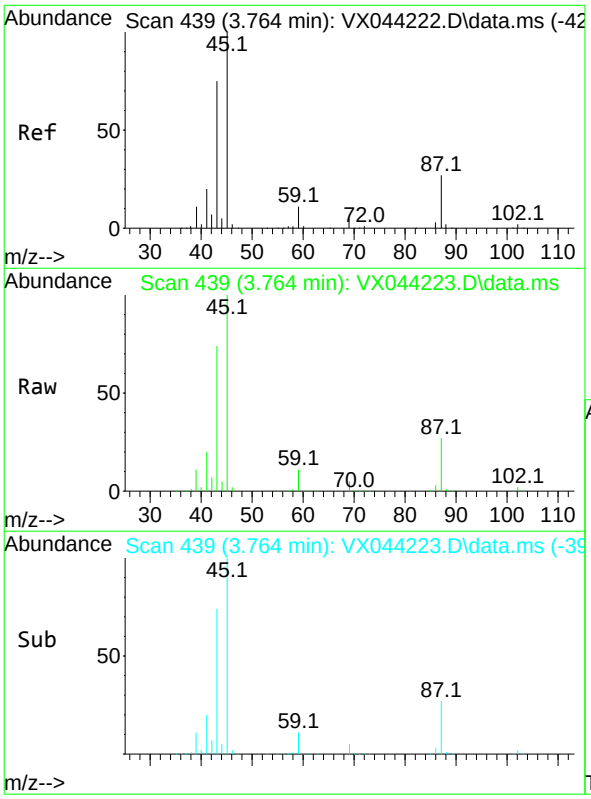
Ion	Ratio	Lower	Upper
96	100		
61	138.4	112.0	168.0
98	63.5	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

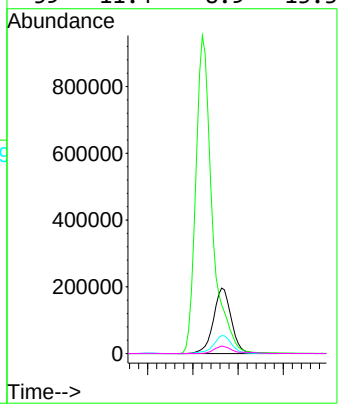
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

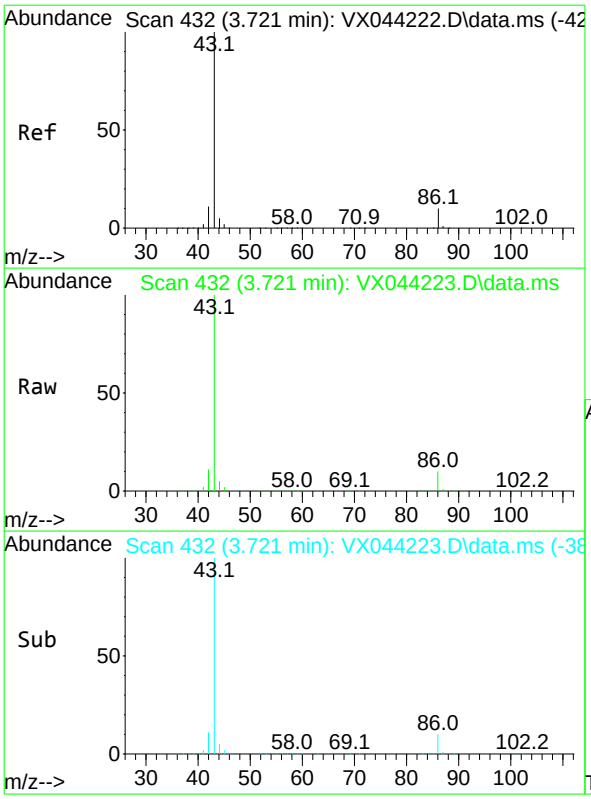


#22
Diisopropyl ether
Concen: 98.498 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 45 Resp: 538742

Ion	Ratio	Lower	Upper
45	100		
43	74.2	60.2	90.2
87	27.4	21.2	31.8
59	11.4	8.9	13.3

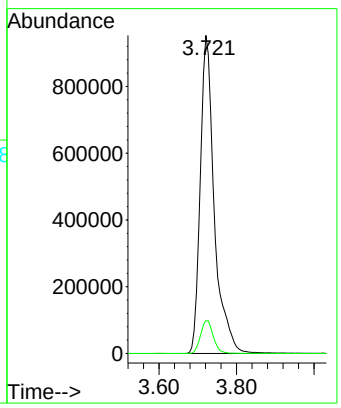




#23
Vinyl Acetate
Concen: 538.801 ug/l
RT: 3.721 min Scan# 43
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 2395923

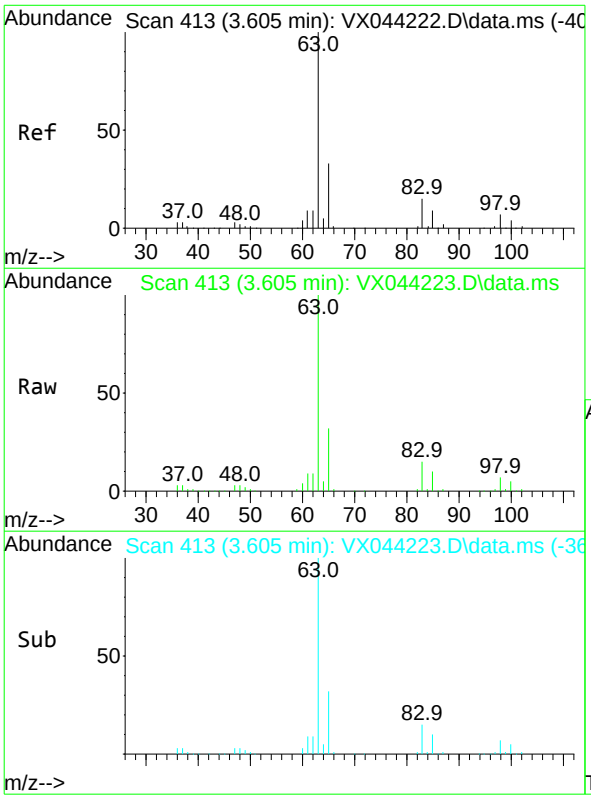
Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

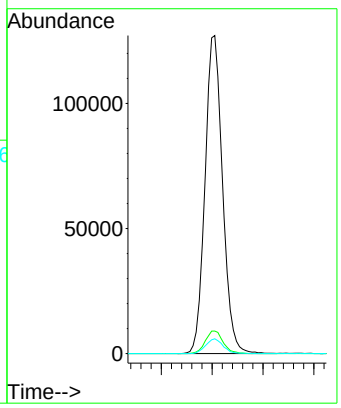
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

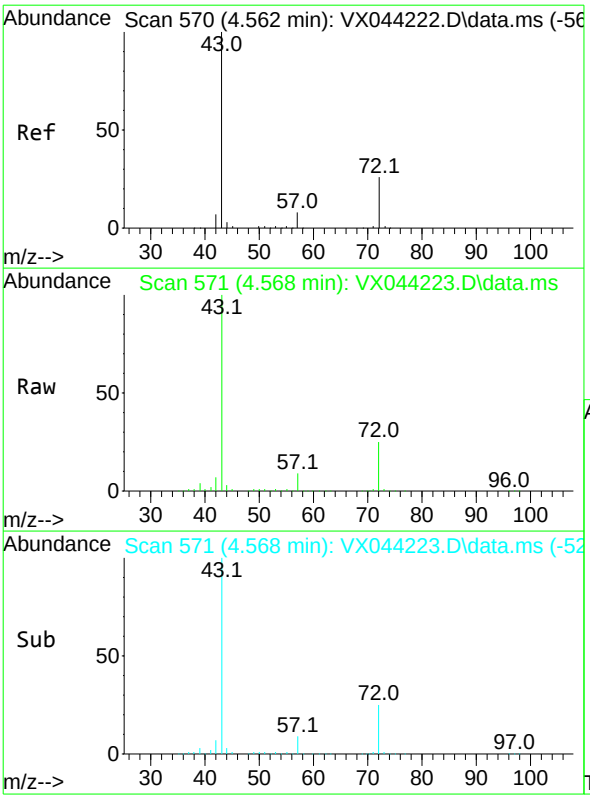


#24
1,1-Dichloroethane
Concen: 99.915 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 63 Resp: 304626

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.6	10.8
100	4.6	2.1	6.3

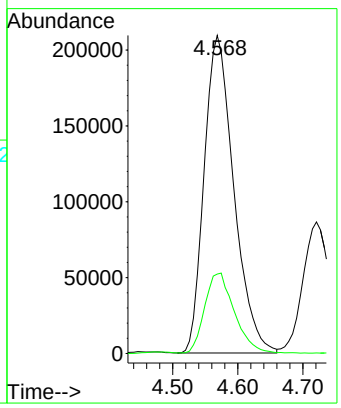




#25
2-Butanone
Concen: 501.306 ug/l
RT: 4.568 min Scan# 57
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 662768

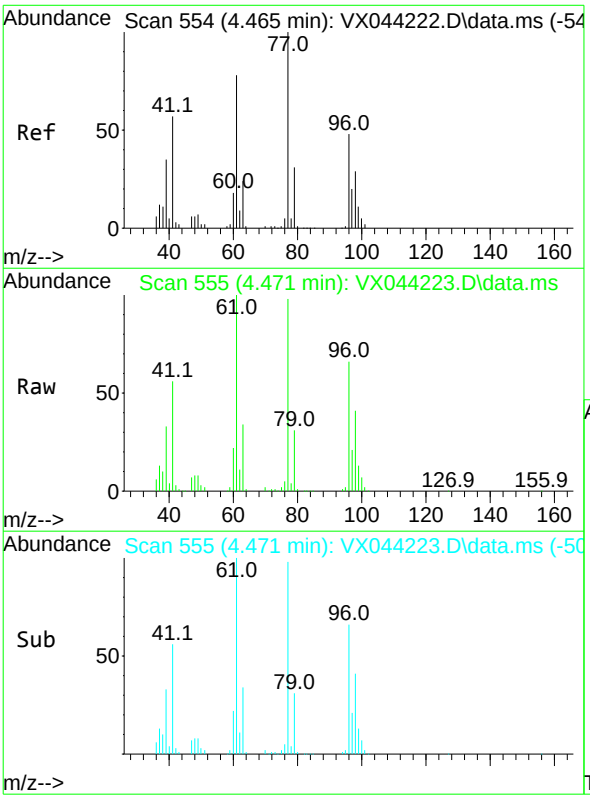
Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

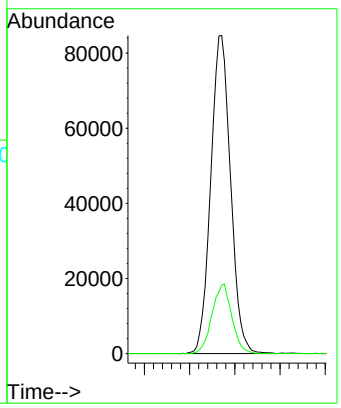
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

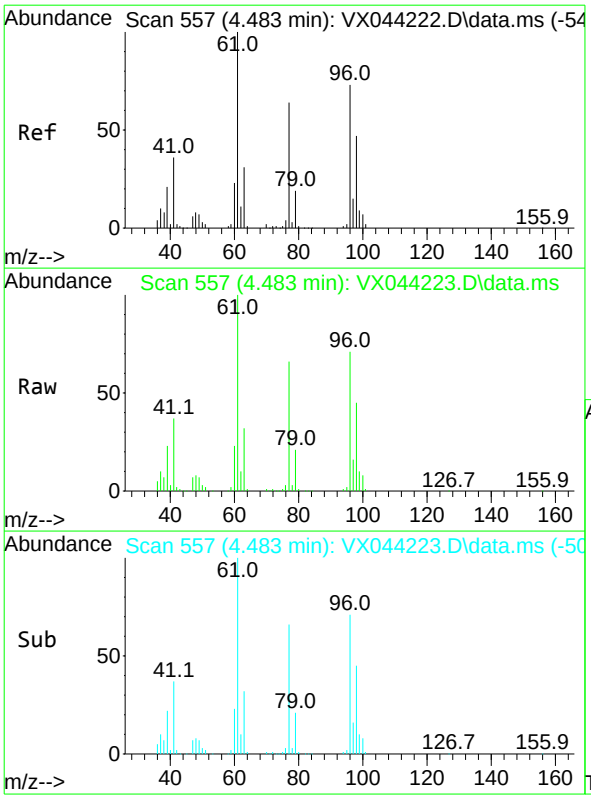


#26
2,2-Dichloropropane
Concen: 104.201 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 77 Resp: 258092

Ion	Ratio	Lower	Upper
77	100		
97	21.8	10.7	32.1

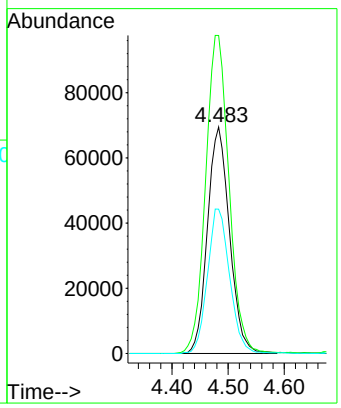




#27
cis-1,2-Dichloroethene
Concen: 96.593 ug/l
RT: 4.483 min Scan# 55
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 96 Resp: 190127

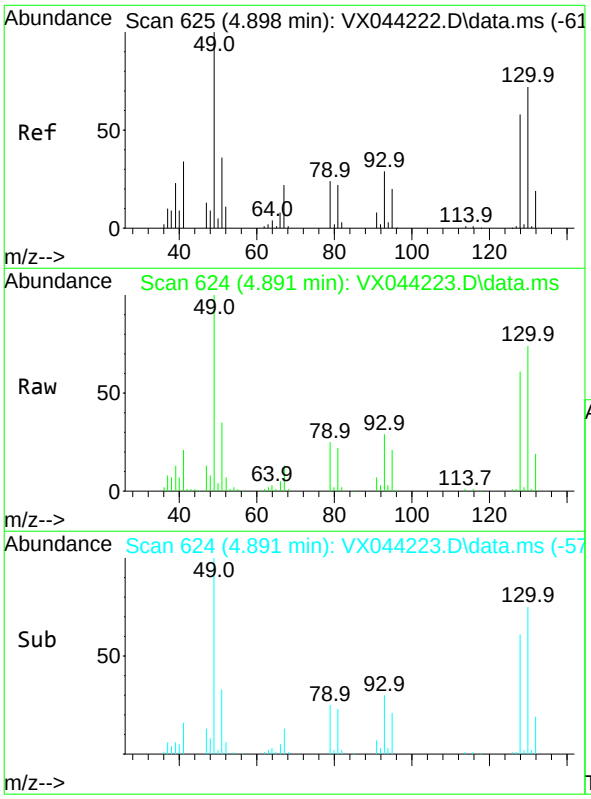
Ion	Ratio	Lower	Upper
96	100		
61	148.5	0.0	299.0
98	64.2	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

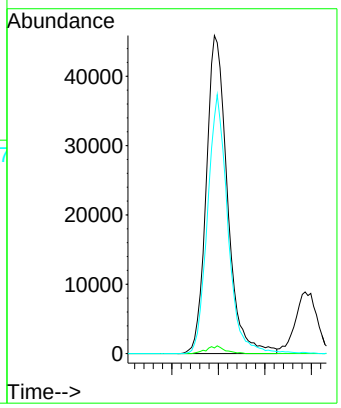
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

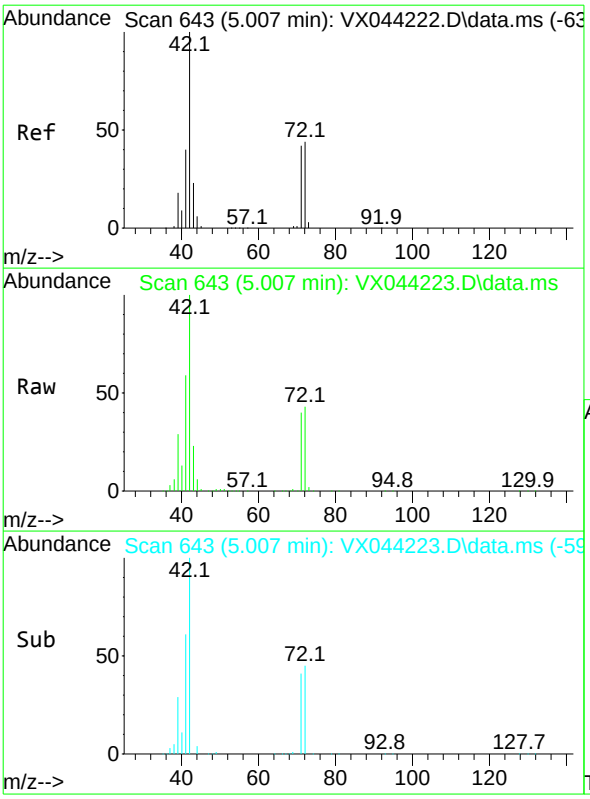


#28
Bromochloromethane
Concen: 96.842 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 49 Resp: 144783

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	78.2	62.1	93.1

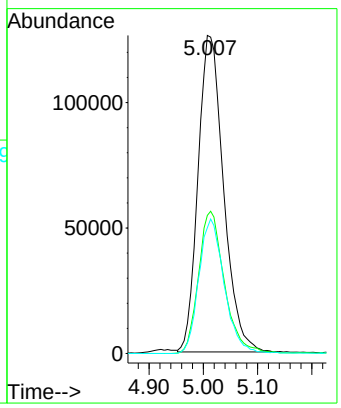




#29
Tetrahydrofuran
Concen: 486.290 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 42 Resp: 412666

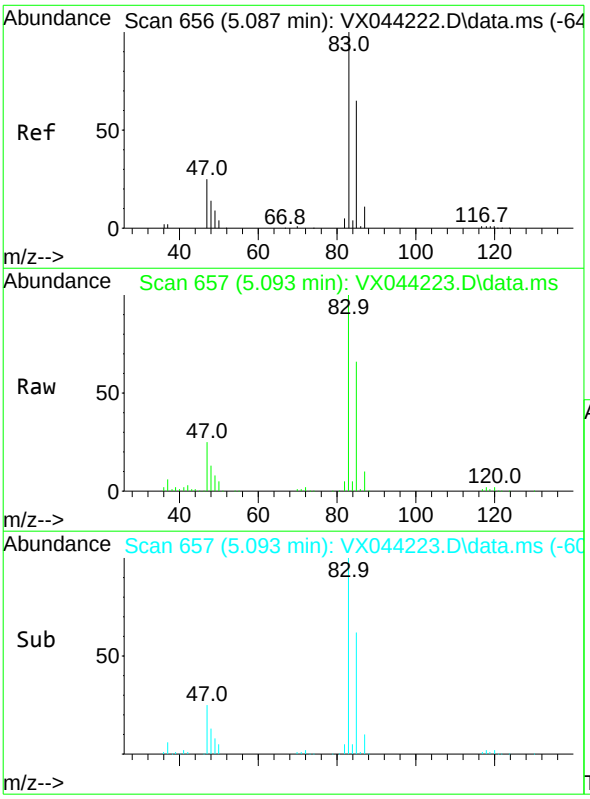
Ion	Ratio	Lower	Upper
42	100		
72	45.6	37.0	55.6
71	42.1	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

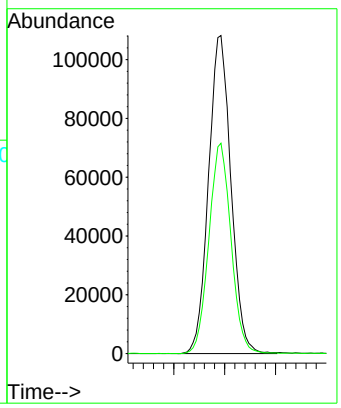
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

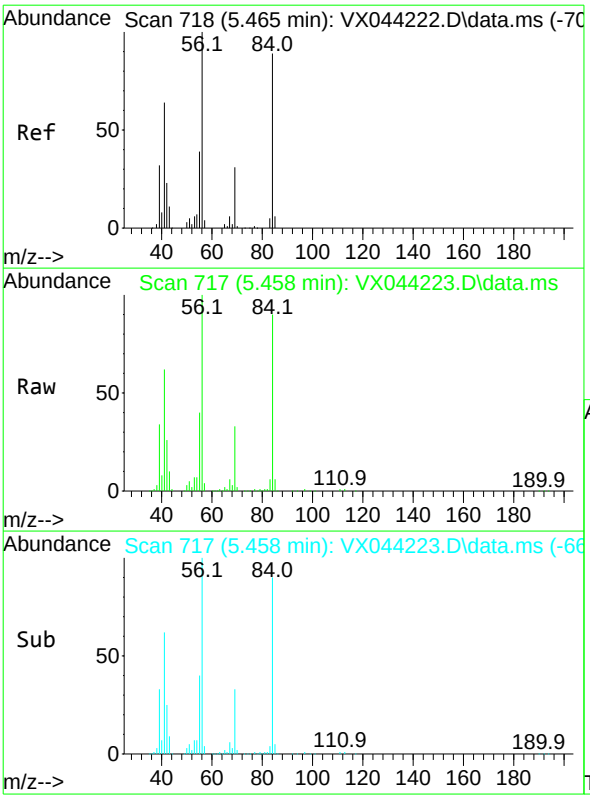


#30
Chloroform
Concen: 96.642 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 83 Resp: 331047

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.6	77.4

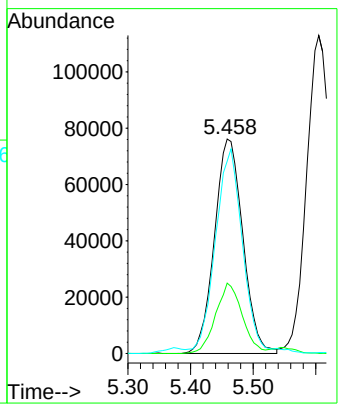




#31
Cyclohexane
Concen: 97.433 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 56 Resp: 239879

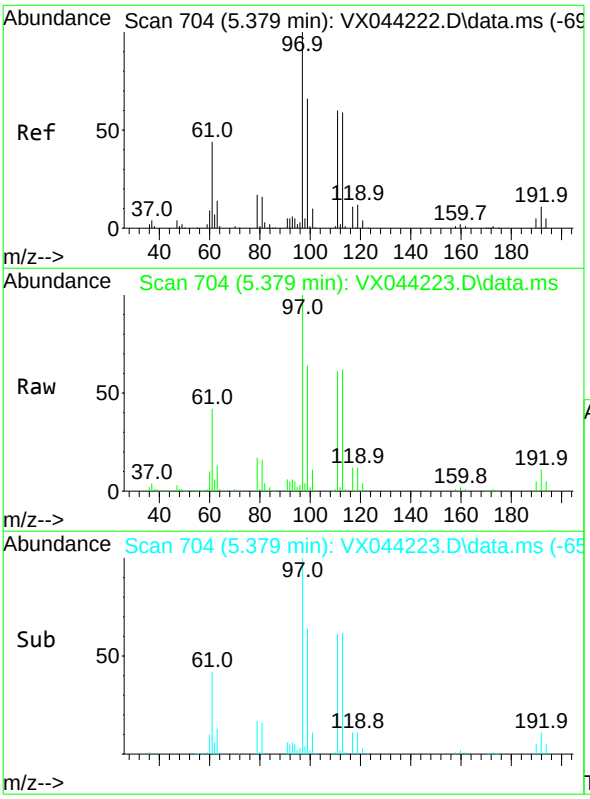
Ion	Ratio	Lower	Upper
56	100		
69	32.8	24.7	37.1
84	87.3	71.0	106.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

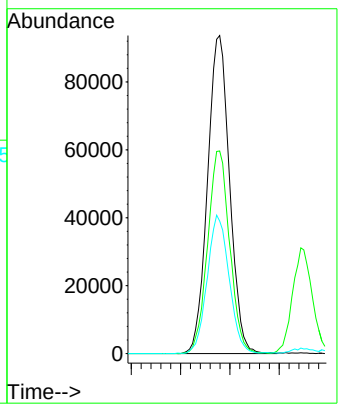
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

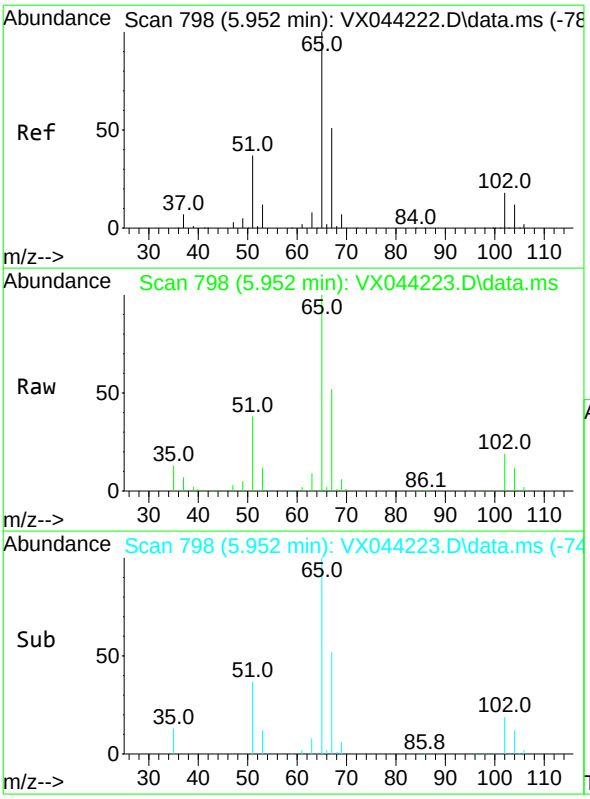


#32
1,1,1-Trichloroethane
Concen: 102.363 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 97 Resp: 291065

Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.8	76.2
61	43.3	35.2	52.8





#33
1,2-Dichloroethane-d4
Concen: 98.326 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

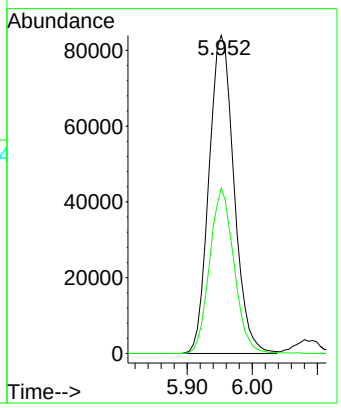
Tgt Ion: 65 Resp: 224292

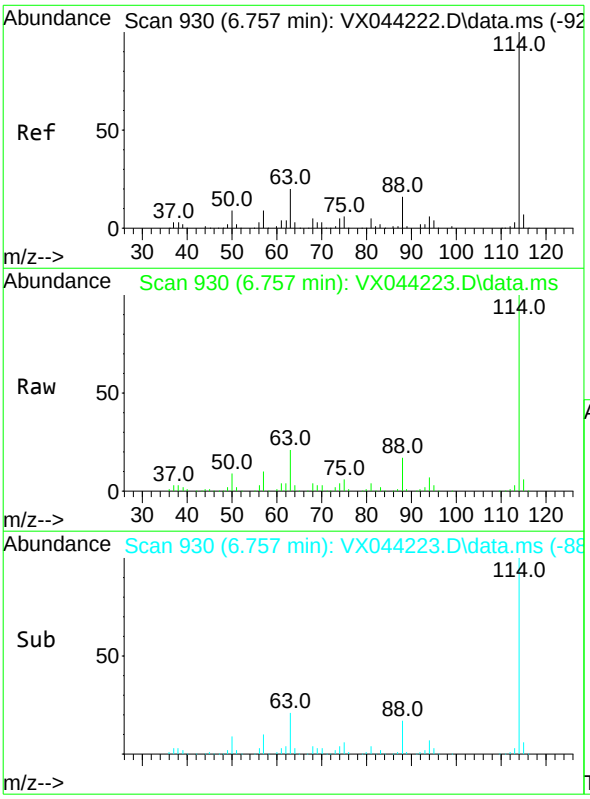
Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

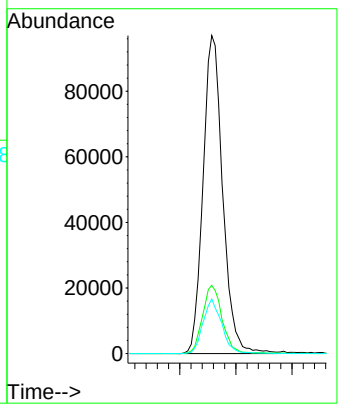


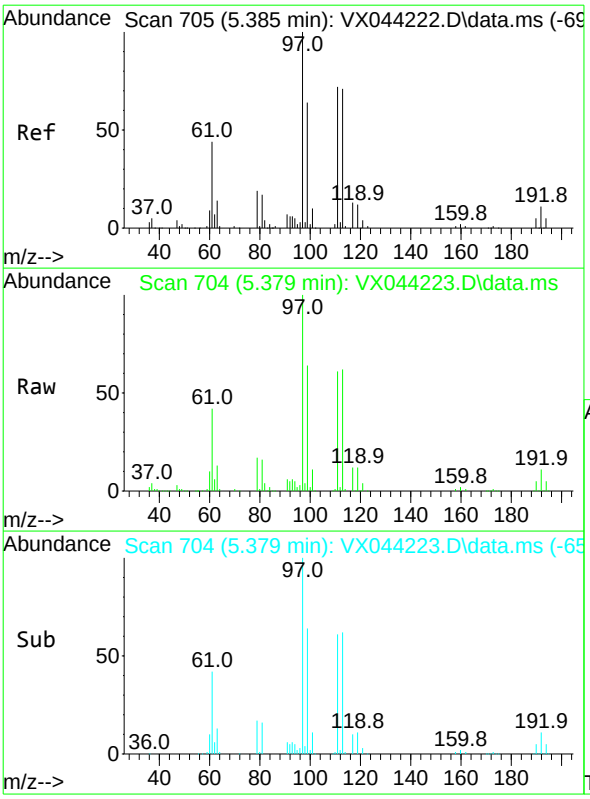


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:114 Resp: 235738

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	40.6
88	17.2	0.0	31.8

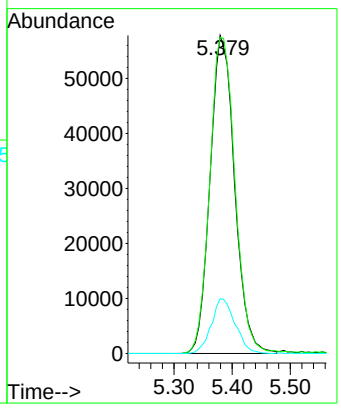




#35
Dibromofluoromethane
Concen: 103.866 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:113 Resp: 169582

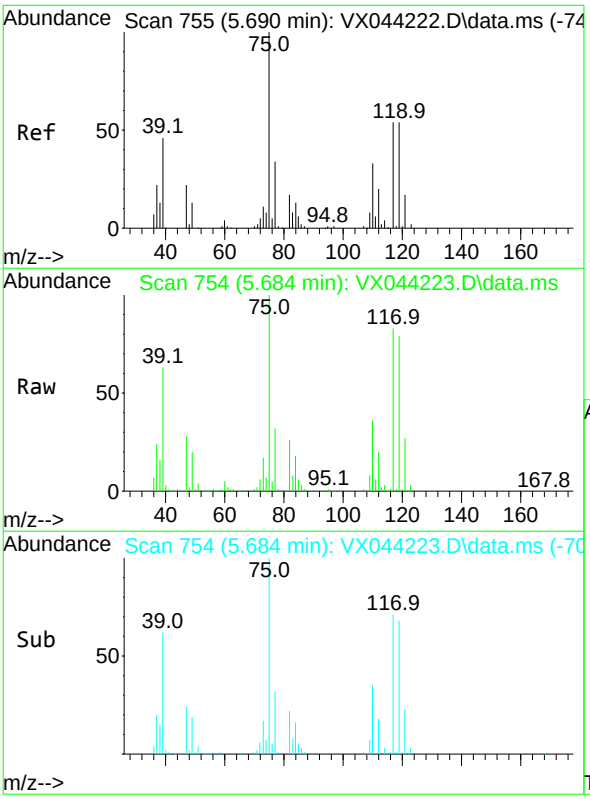
Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.4	120.6
192	16.7	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

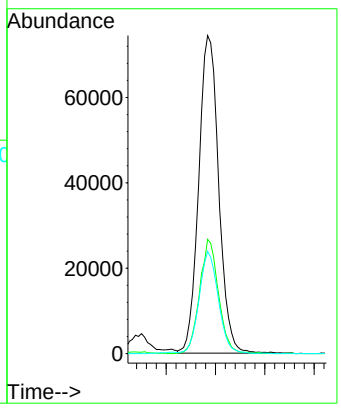
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

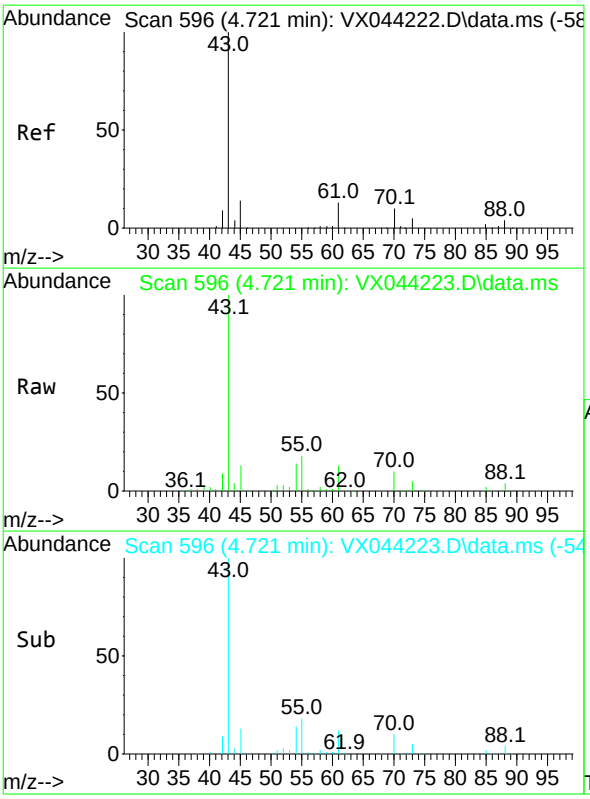


#36
1,1-Dichloropropene
Concen: 99.376 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 209732

Ion	Ratio	Lower	Upper
75	100		
110	33.9	17.3	51.7
77	30.6	25.4	38.0





#37
Ethyl Acetate
Concen: 102.079 ug/l
RT: 4.721 min Scan# 59
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

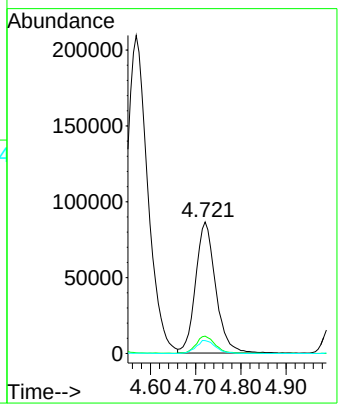
Tgt Ion: 43 Resp: 266307

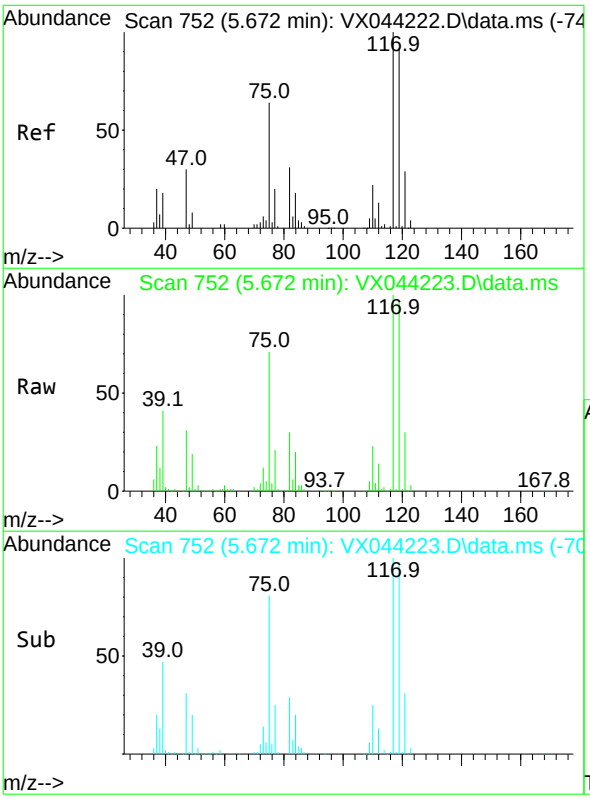
Ion	Ratio	Lower	Upper
43	100		
61	12.5	9.8	14.8
70	9.5	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

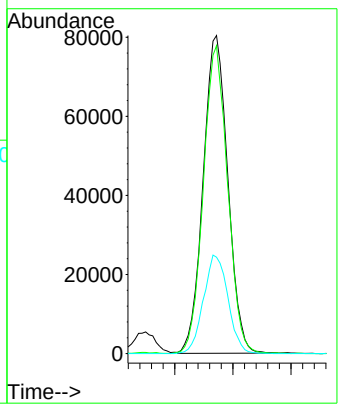


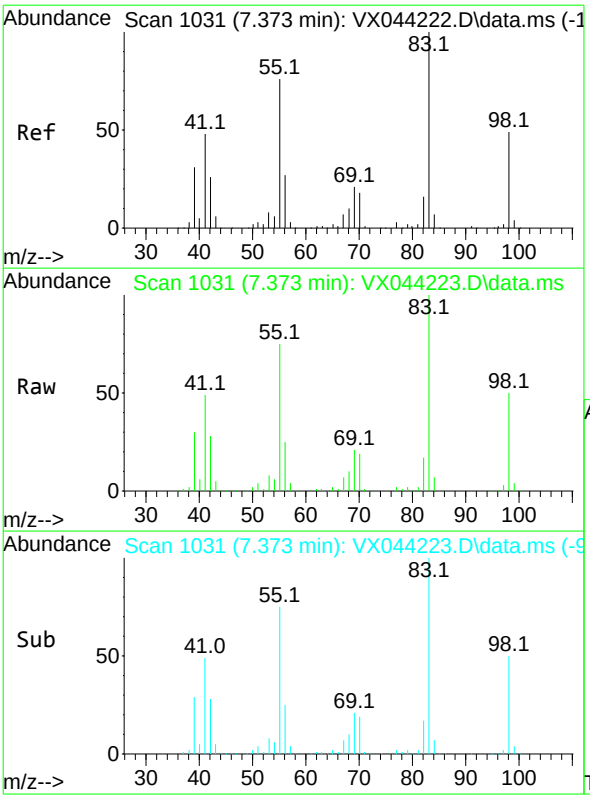


#38
Carbon Tetrachloride
Concen: 104.249 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:117 Resp: 236869

Ion	Ratio	Lower	Upper
117	100		
119	96.7	74.2	111.4
121	30.4	23.0	34.6

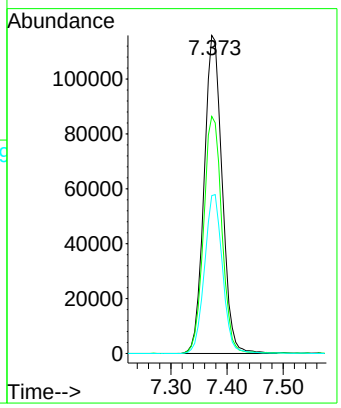




#39
Methylcyclohexane
Concen: 102.800 ug/l
RT: 7.373 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 83 Resp: 259368

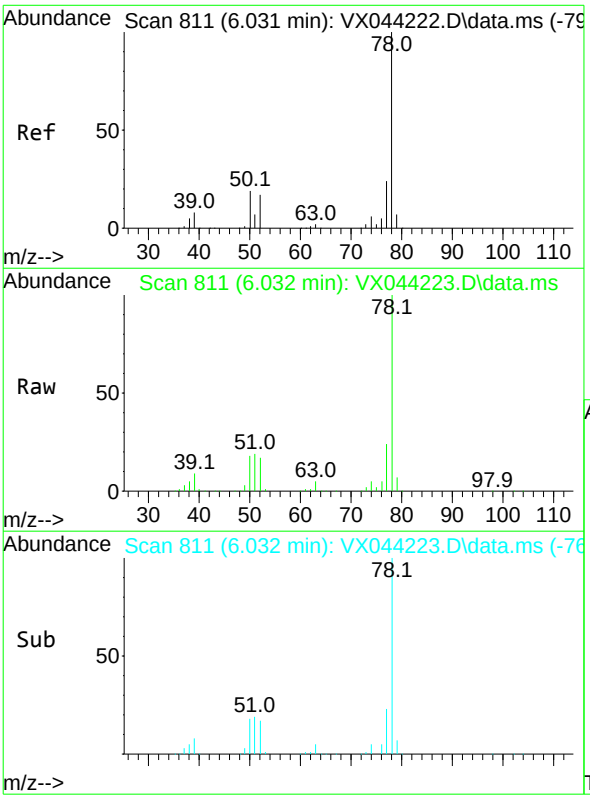
Ion	Ratio	Lower	Upper
83	100		
55	74.5	60.7	91.1
98	49.6	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

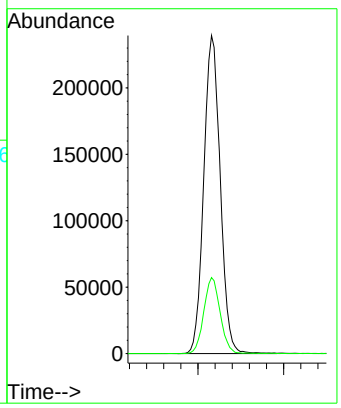
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

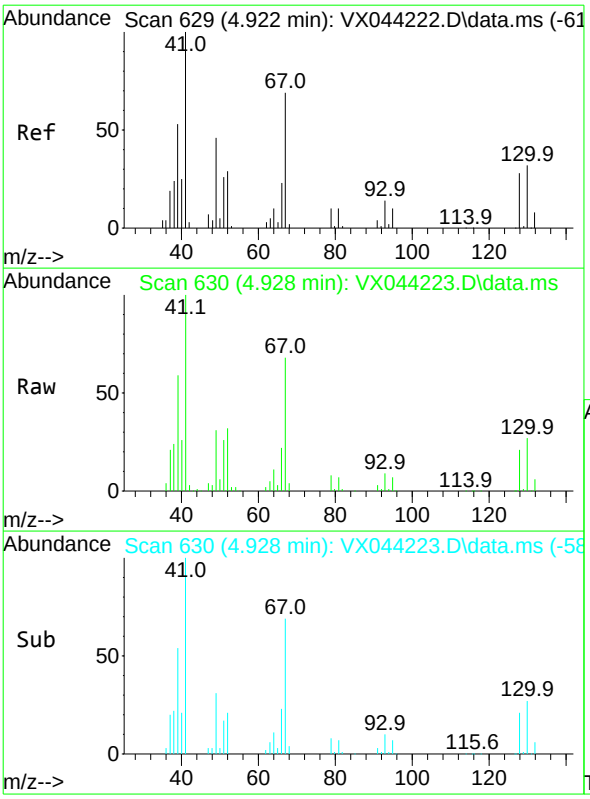


#40
Benzene
Concen: 99.575 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 78 Resp: 638055

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.3	28.9

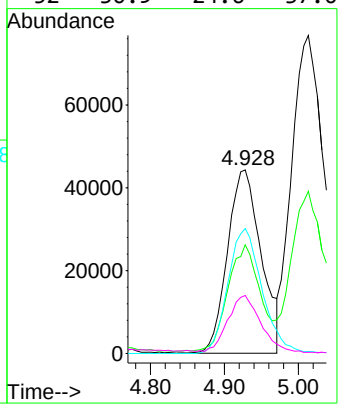




#41
Methacrylonitrile
Concen: 101.332 ug/l
RT: 4.928 min Scan# 63
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 41 Resp: 140375

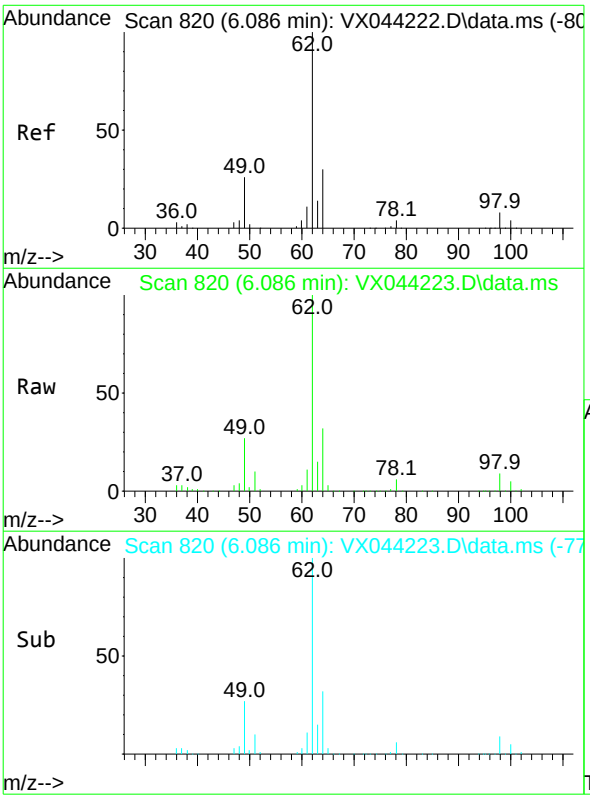
Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.2	66.4
67	69.1	57.2	85.8
52	30.9	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

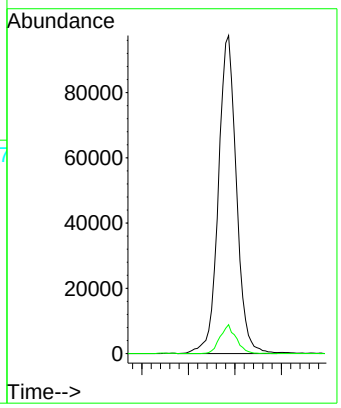
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

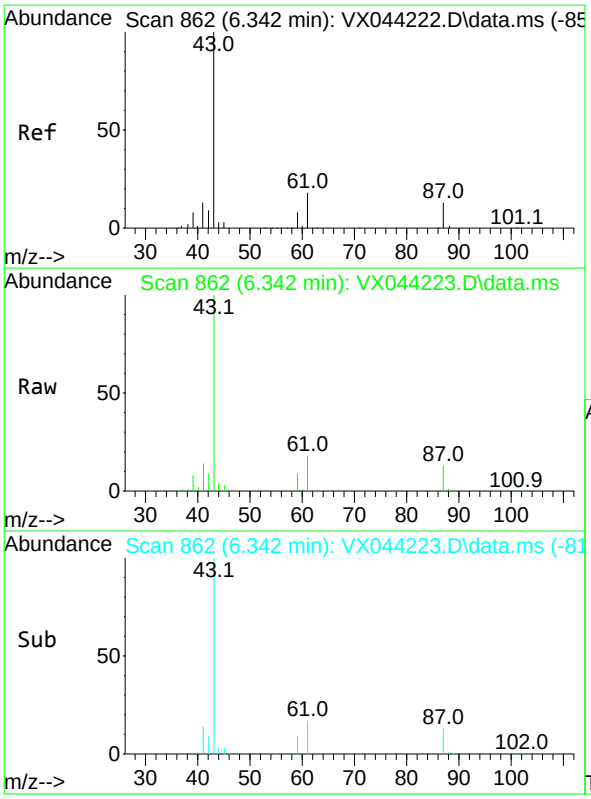


#42
1,2-Dichloroethane
Concen: 99.255 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 62 Resp: 261991

Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	15.8

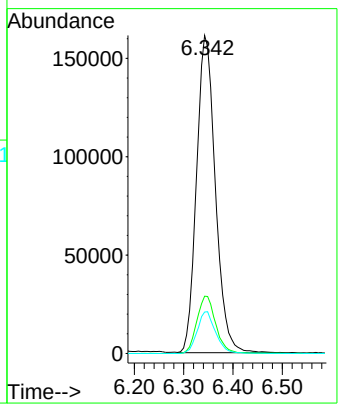




#43
Isopropyl Acetate
Concen: 104.939 ug/l
RT: 6.342 min Scan# 86
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 427893

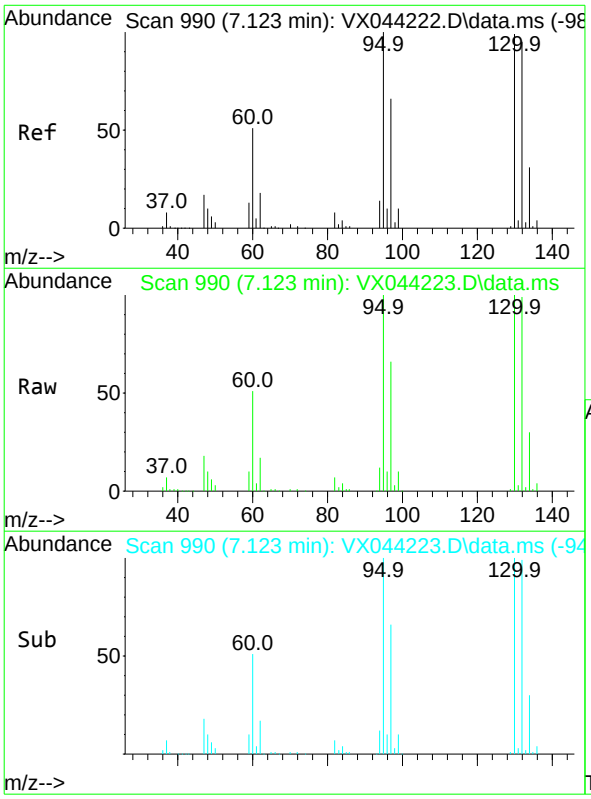
Ion	Ratio	Lower	Upper
43	100		
61	18.2	14.2	21.2
87	12.8	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

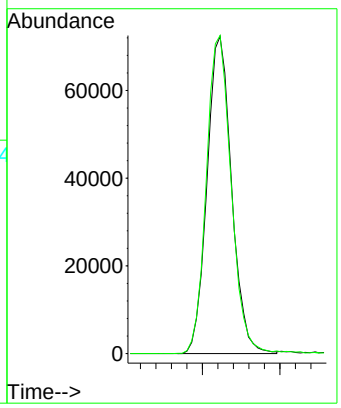
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

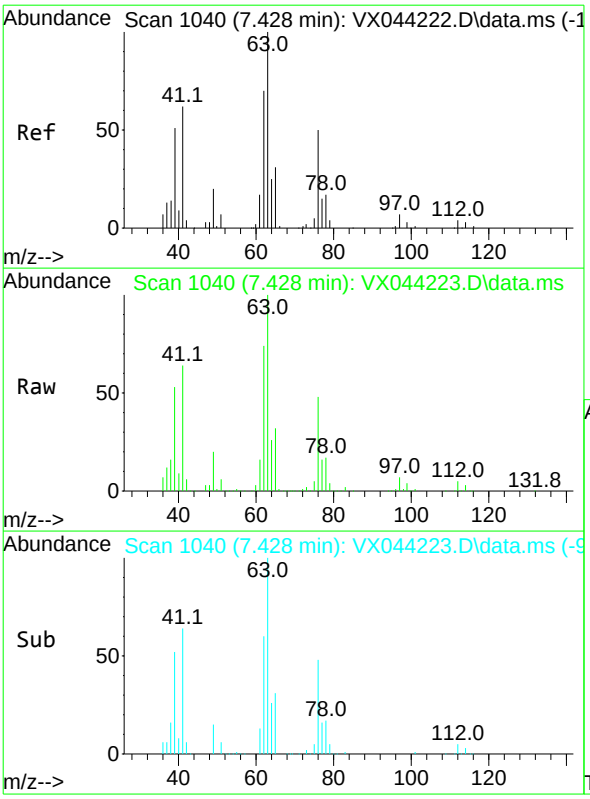


#44
Trichloroethene
Concen: 99.497 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:130 Resp: 158990

Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	201.4

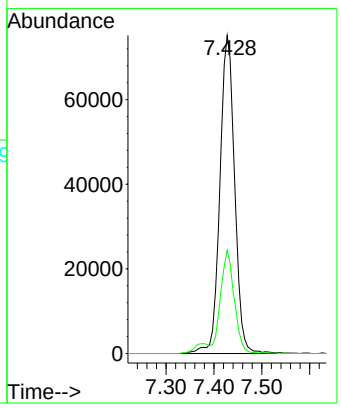




#45
1,2-Dichloropropane
Concen: 98.293 ug/l
RT: 7.428 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 63 Resp: 160913

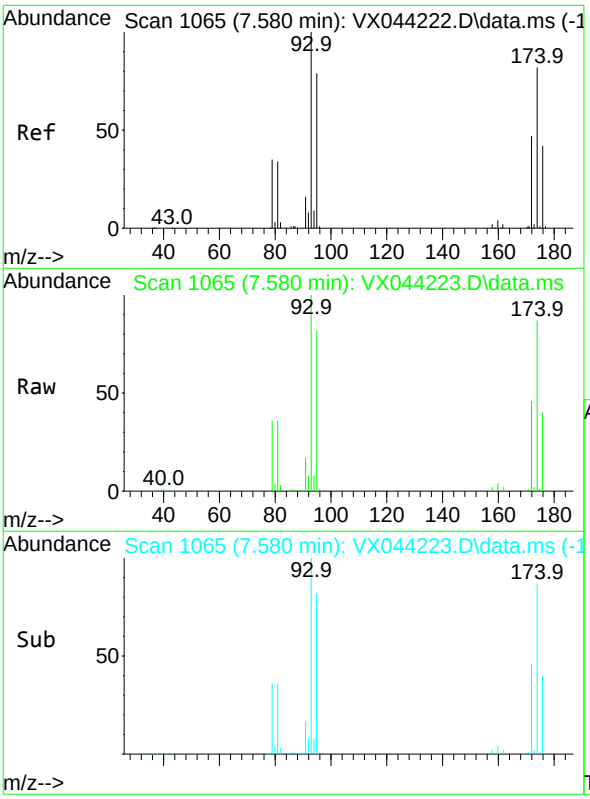
Ion	Ratio	Lower	Upper
63	100		
65	32.5	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

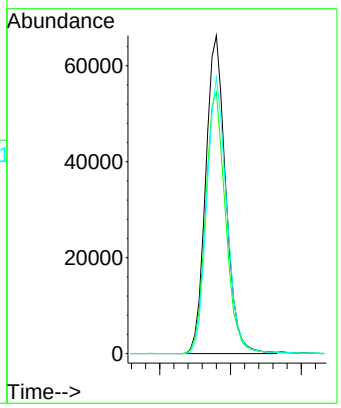
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

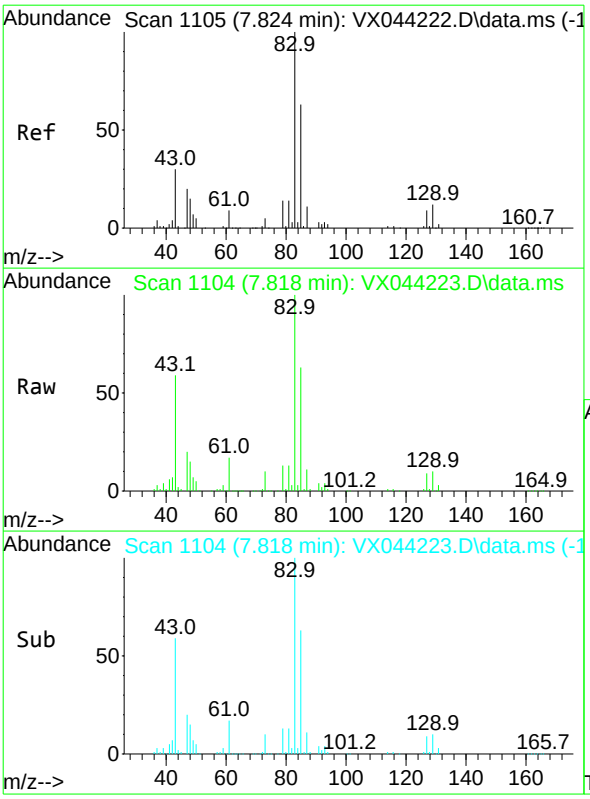


#46
Dibromomethane
Concen: 102.607 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 93 Resp: 130316

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.4	98.2
174	86.1	67.9	101.9

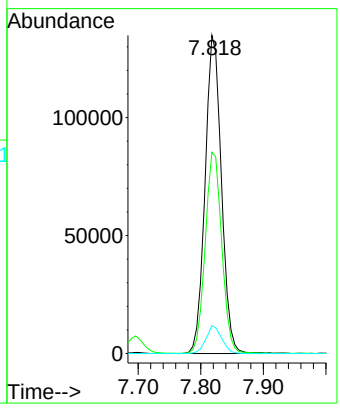




#47
Bromodichloromethane
Concen: 111.423 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 83 Resp: 244401

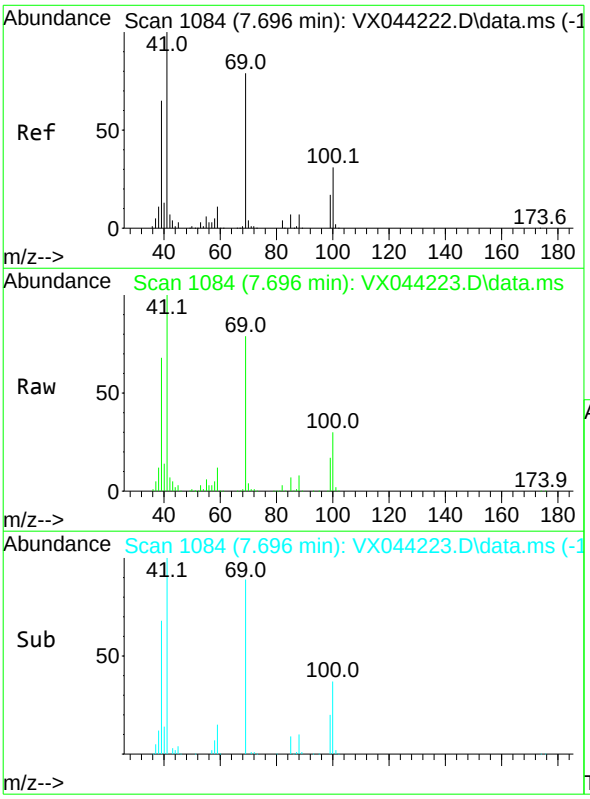
Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	8.8	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

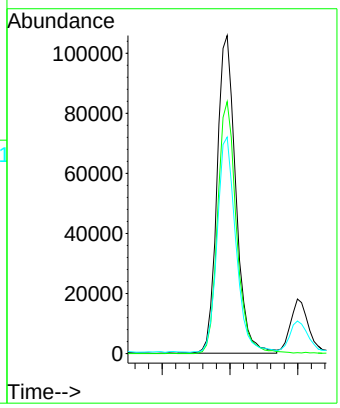
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

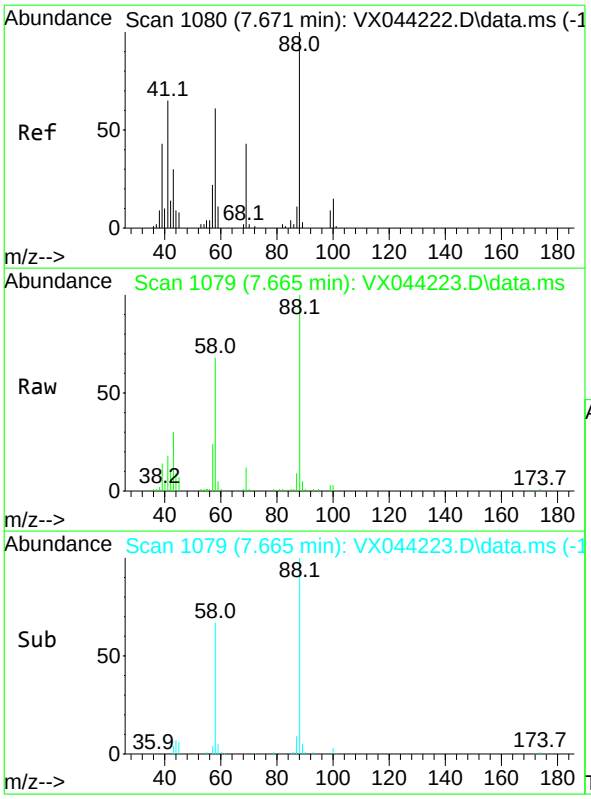


#48
Methyl methacrylate
Concen: 102.618 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 41 Resp: 203116

Ion	Ratio	Lower	Upper
41	100		
69	79.5	62.4	93.6
39	67.4	53.3	79.9

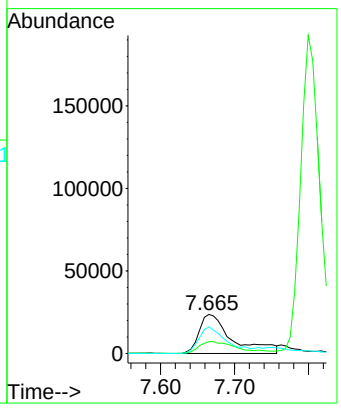




#49
1,4-Dioxane
Concen: 2170.871 ug/l m
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 88 Resp: 73434

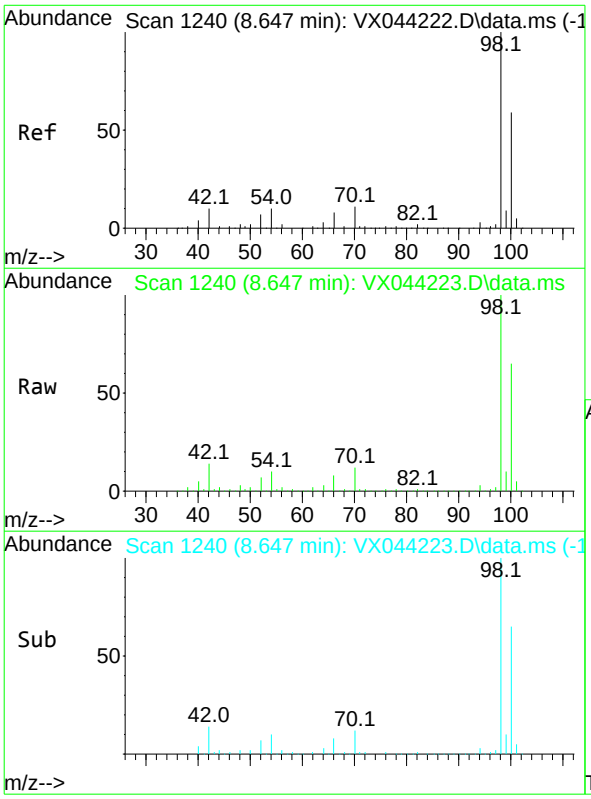
Ion	Ratio	Lower	Upper
88	100		
43	34.9	27.1	40.7
58	57.8	41.0	61.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

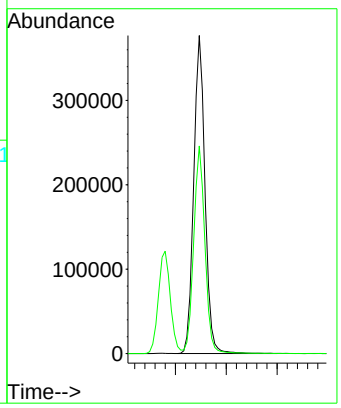
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

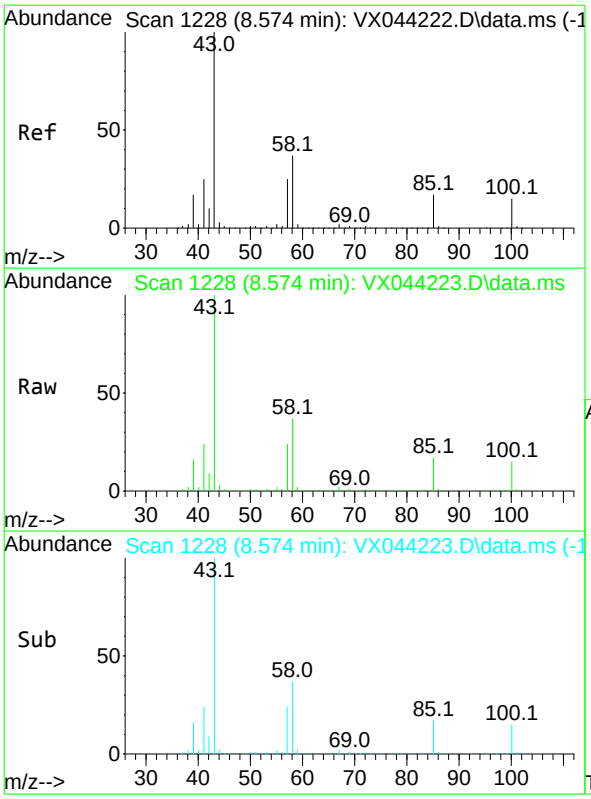


#50
Toluene-d8
Concen: 105.201 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 98 Resp: 579477

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.5	77.3

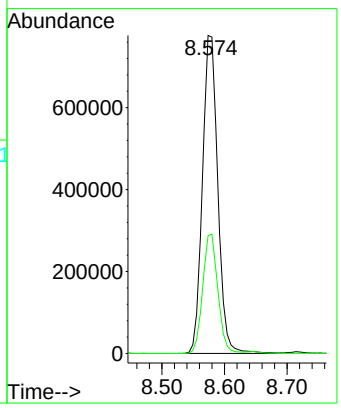




#51
4-Methyl-2-Pentanone
Concen: 504.496 ug/l
RT: 8.574 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 1322678

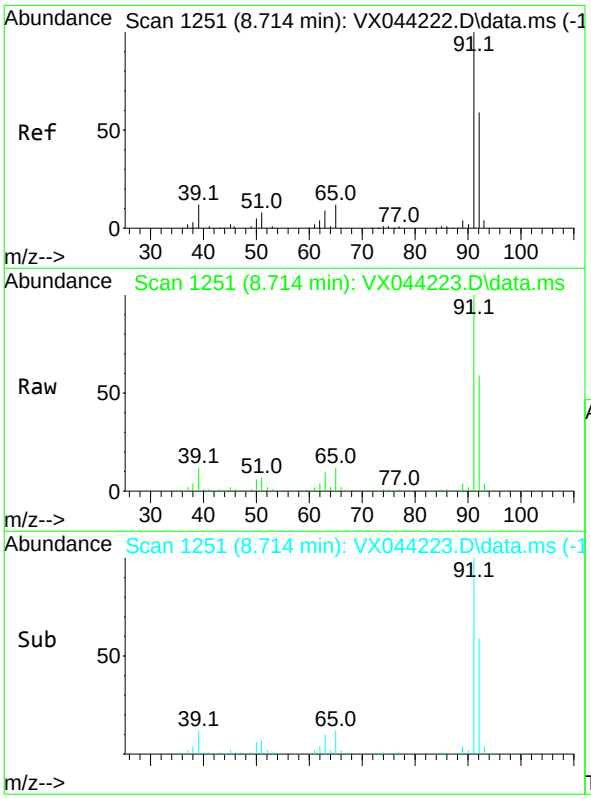
Ion	Ratio	Lower	Upper
43	100		
58	37.0	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

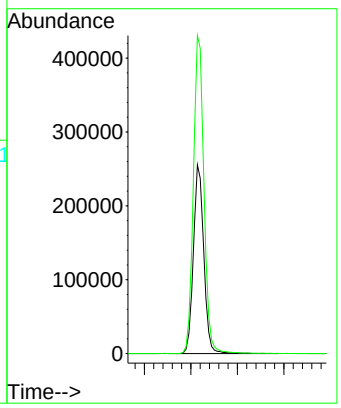
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

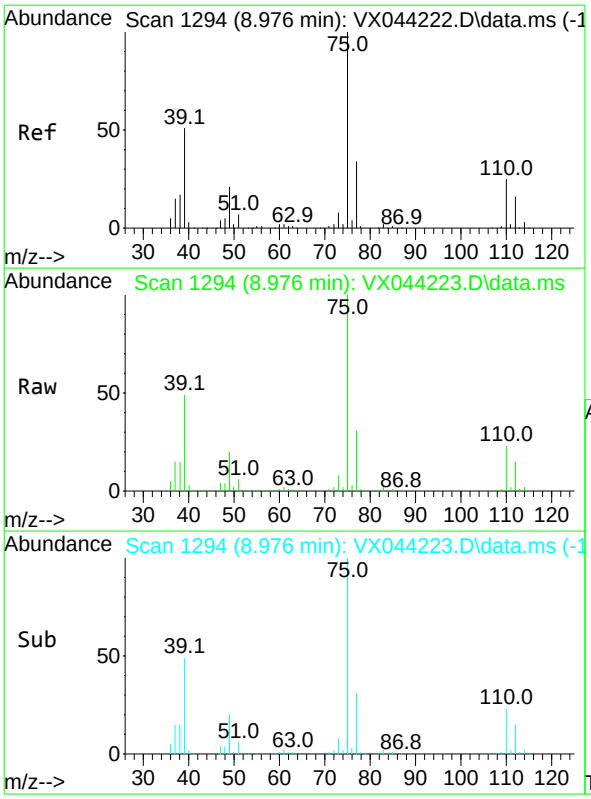


#52
Toluene
Concen: 98.506 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 92 Resp: 396383

Ion	Ratio	Lower	Upper
92	100		
91	171.4	137.0	205.6

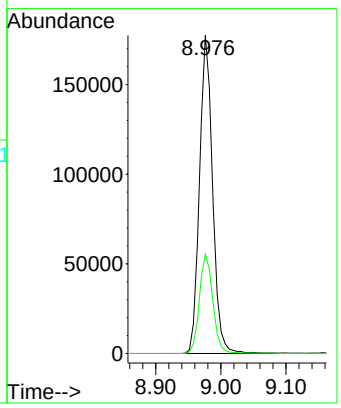




#53
t-1,3-Dichloropropene
Concen: 99.321 ug/l
RT: 8.976 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 248092

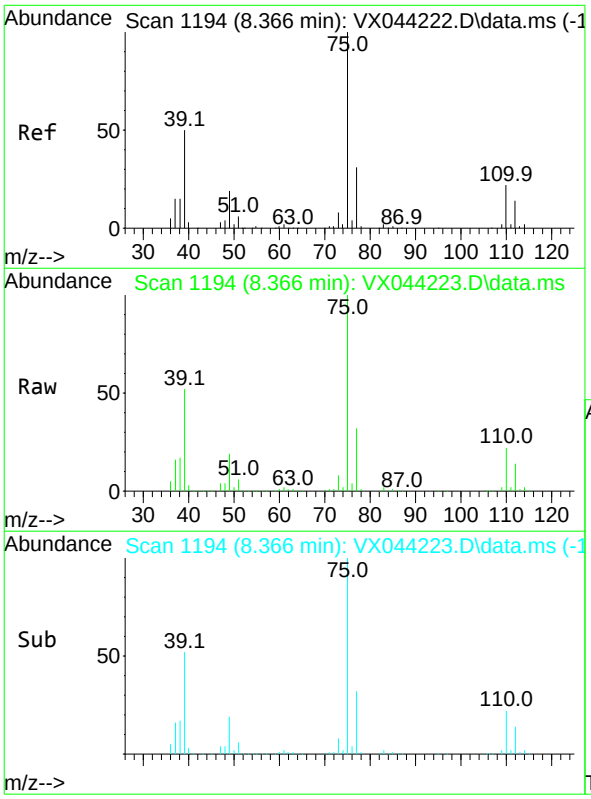
Ion	Ratio	Lower	Upper
75	100		
77	31.2	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

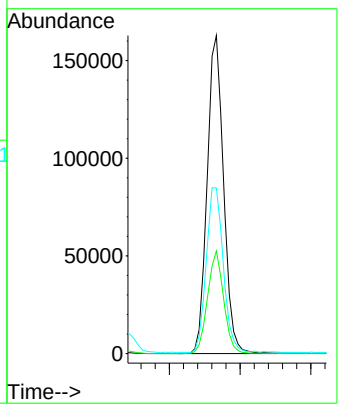
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

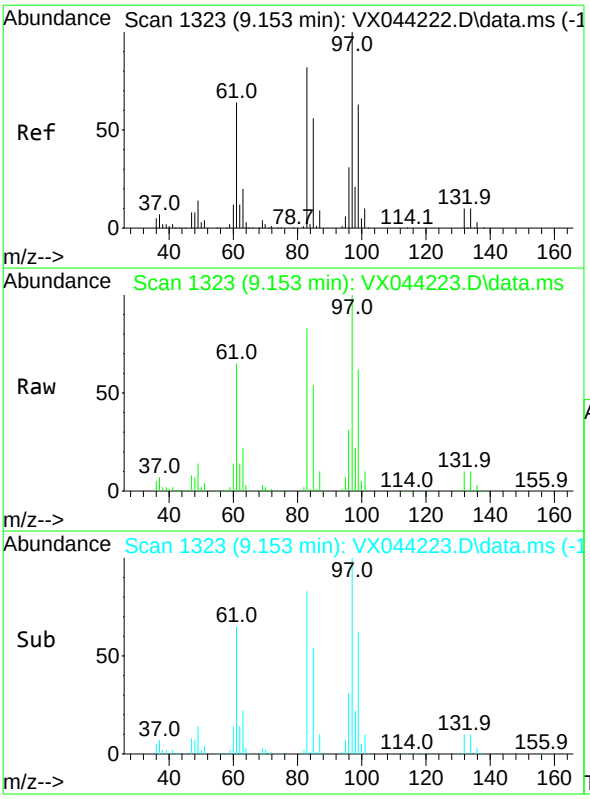


#54
cis-1,3-Dichloropropene
Concen: 110.127 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 263014

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.7	37.1
39	51.8	40.3	60.5

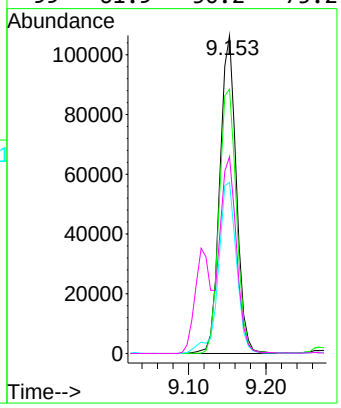




#55
1,1,2-Trichloroethane
Concen: 98.441 ug/l
RT: 9.153 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 97 Resp: 157366

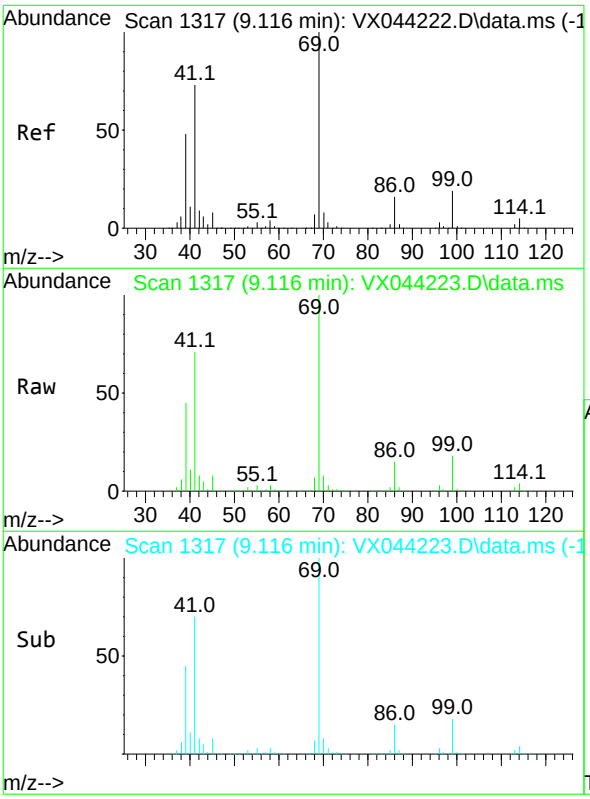
Ion	Ratio	Lower	Upper
97	100		
83	83.1	65.3	97.9
85	53.8	44.6	67.0
99	61.9	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

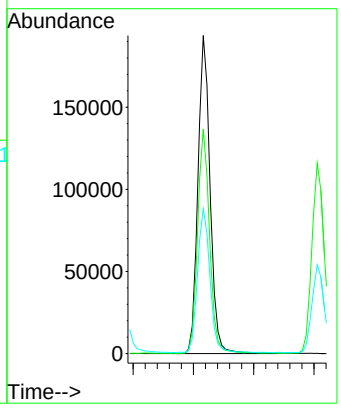
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

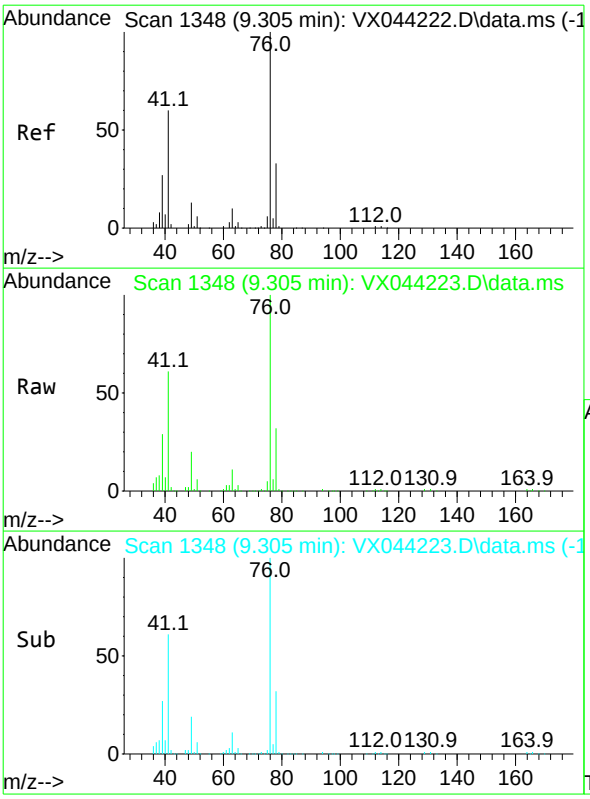


#56
Ethyl methacrylate
Concen: 107.442 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 69 Resp: 271146

Ion	Ratio	Lower	Upper
69	100		
41	69.4	56.6	85.0
39	46.1	37.4	56.0

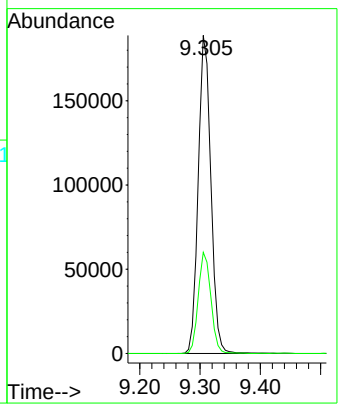




#57
1,3-Dichloropropane
Concen: 98.704 ug/l
RT: 9.305 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 76 Resp: 274642

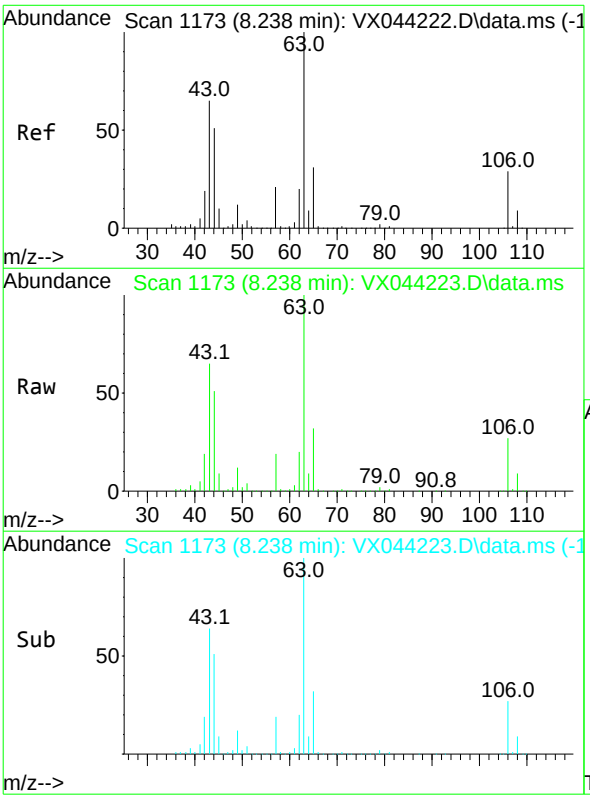
Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

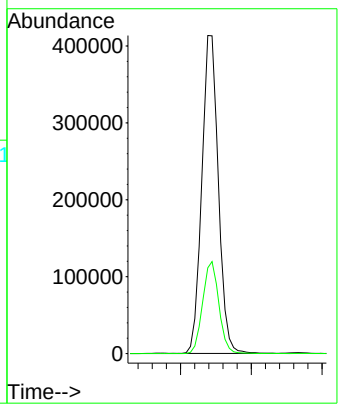
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

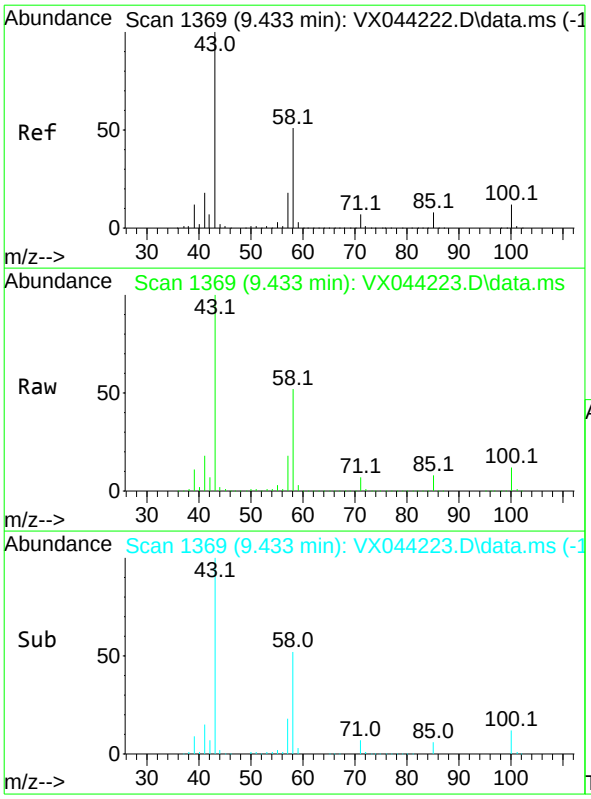


#58
2-Chloroethyl Vinyl ether
Concen: 527.342 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 63 Resp: 671233

Ion	Ratio	Lower	Upper
63	100		
106	28.4	22.8	34.2

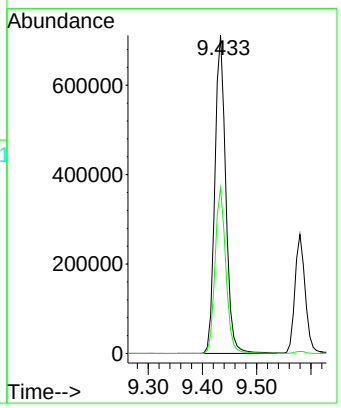




#59
2-Hexanone
Concen: 521.401 ug/l
RT: 9.433 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 989466

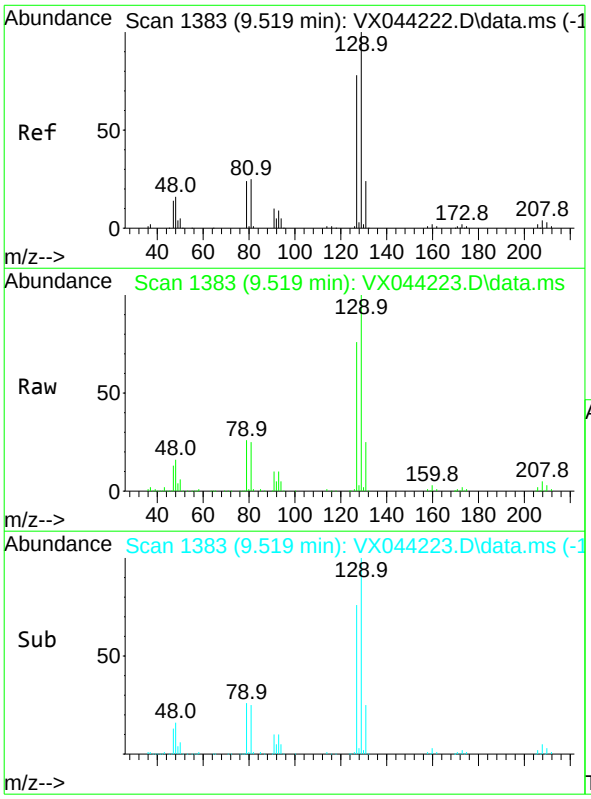
Ion	Ratio	Lower	Upper
43	100		
58	51.9	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

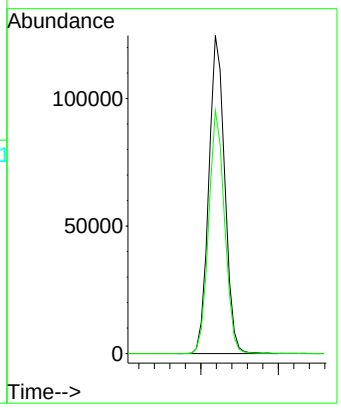
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

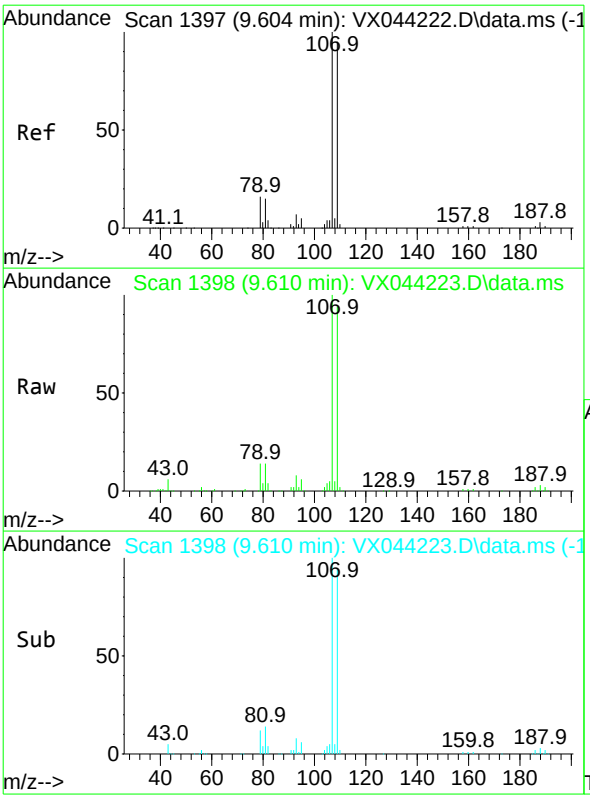


#60
Dibromochloromethane
Concen: 99.480 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:129 Resp: 178135

Ion	Ratio	Lower	Upper
129	100		
127	76.0	38.5	115.3

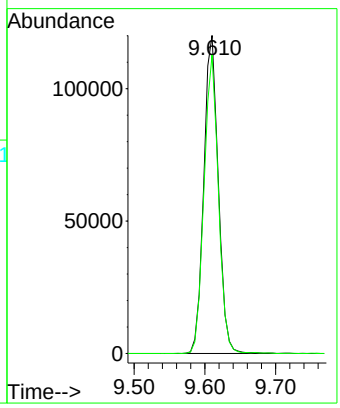




#61
1,2-Dibromoethane
Concen: 105.371 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:107 Resp: 171458

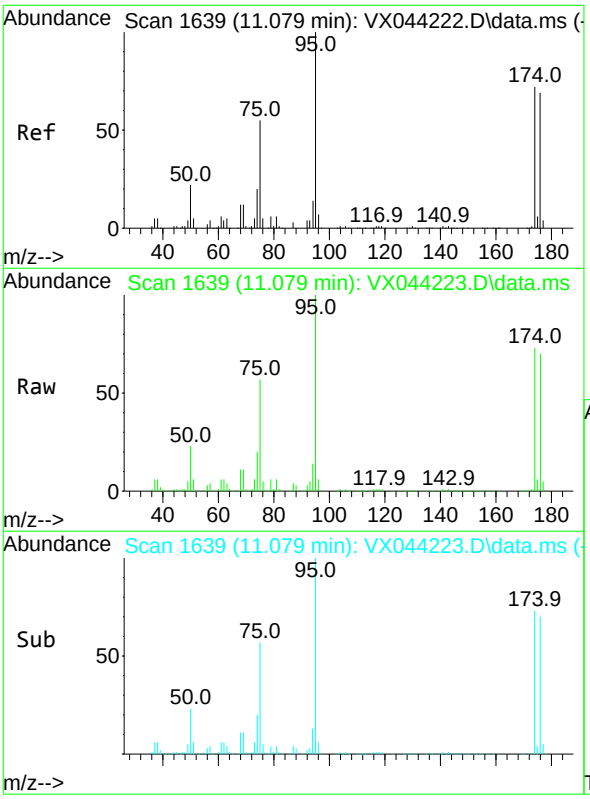
Ion	Ratio	Lower	Upper
107	100		
109	93.1	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

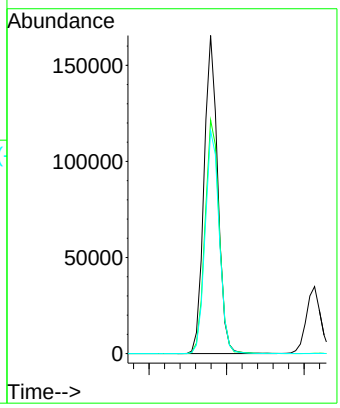
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

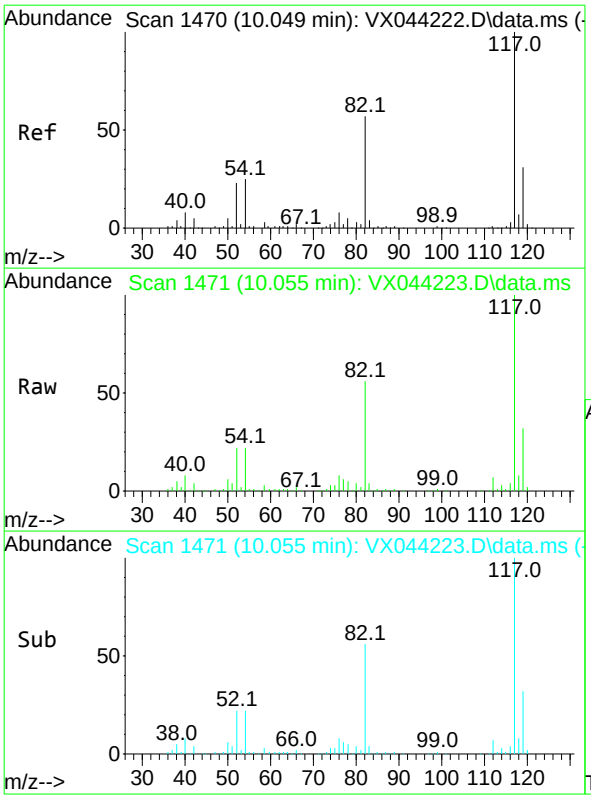


#62
4-Bromofluorobenzene
Concen: 105.830 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 95 Resp: 203694

Ion	Ratio	Lower	Upper
95	100		
174	76.0	0.0	145.8
176	72.0	0.0	137.8

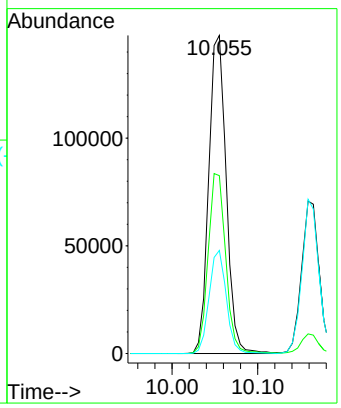




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:117 Resp: 209164

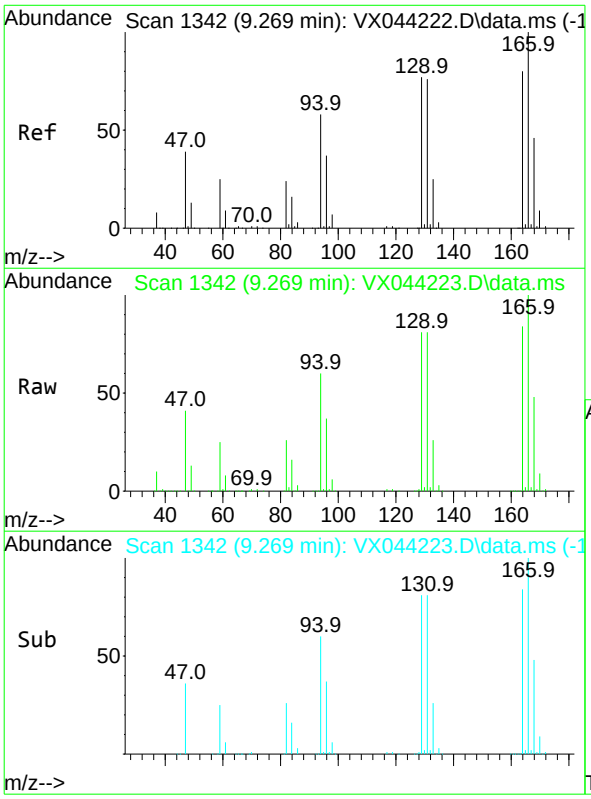
Ion	Ratio	Lower	Upper
117	100		
82	55.9	45.8	68.8
119	32.4	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

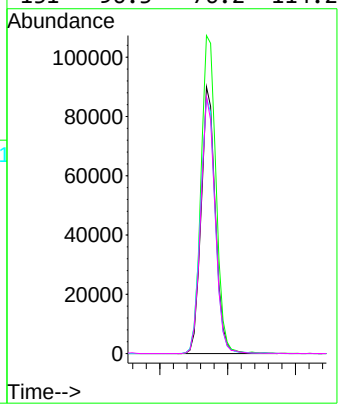
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

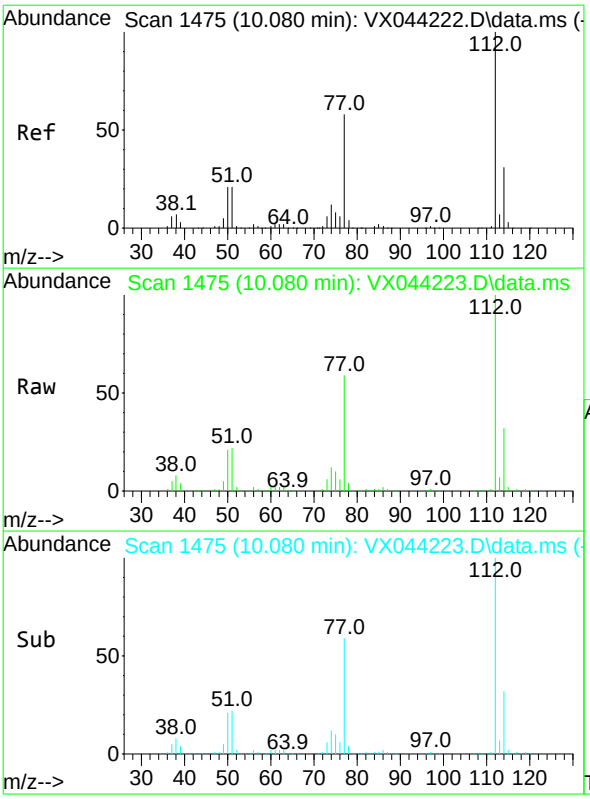


#64
Tetrachloroethene
Concen: 94.131 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:164 Resp: 130678

Ion	Ratio	Lower	Upper
164	100		
166	119.2	100.4	150.6
129	96.1	77.2	115.8
131	96.3	76.2	114.2

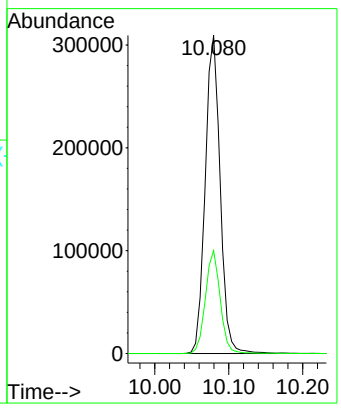




#65
Chlorobenzene
Concen: 96.650 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:112 Resp: 433179

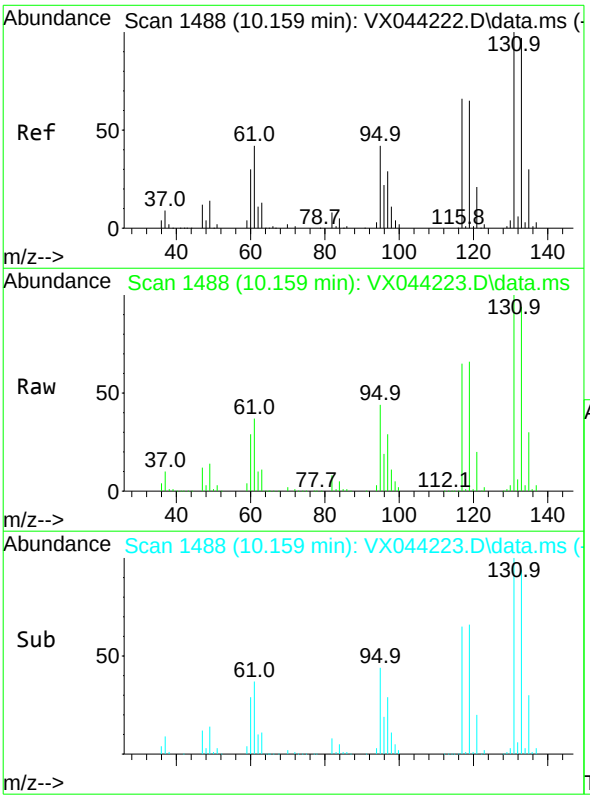
Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

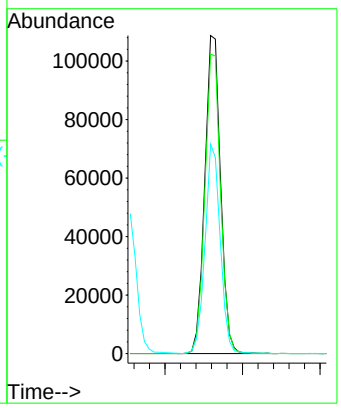
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

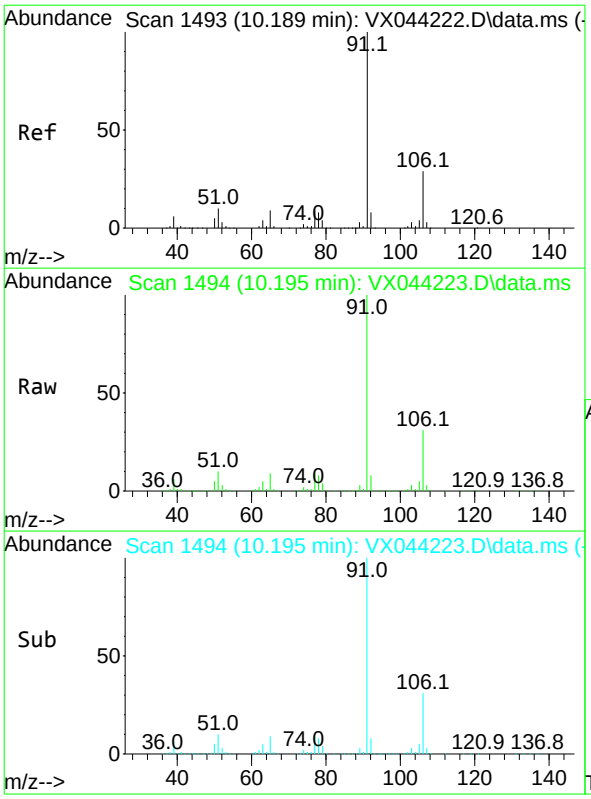


#66
1,1,1,2-Tetrachloroethane
Concen: 106.831 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:131 Resp: 153882

Ion	Ratio	Lower	Upper
131	100		
133	93.6	47.3	141.8
119	63.5	31.6	95.0

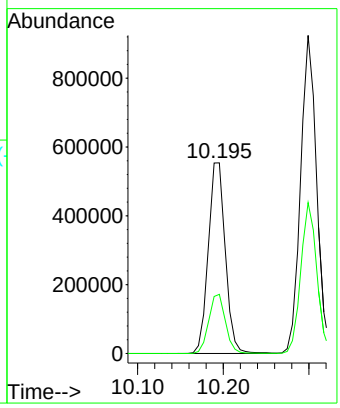




#67
Ethyl Benzene
Concen: 98.906 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 91 Resp: 765930

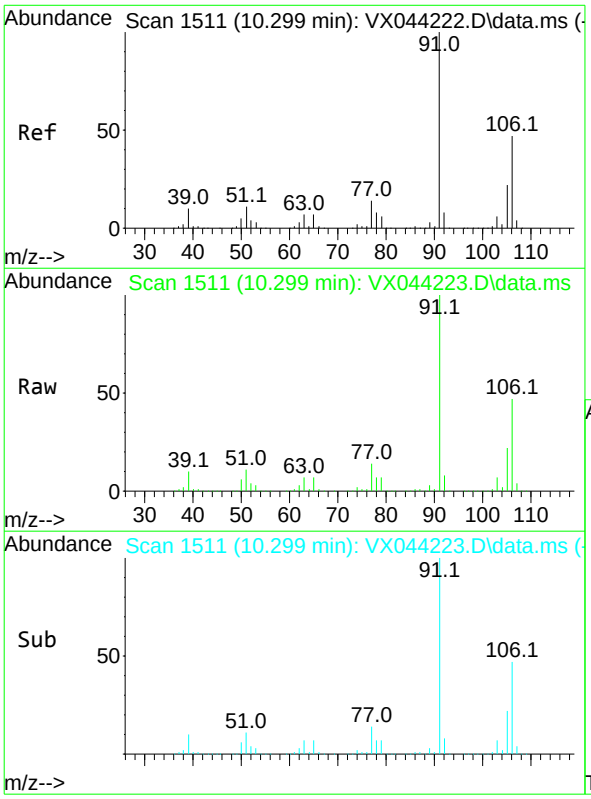
Ion	Ratio	Lower	Upper
91	100		
106	31.0	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

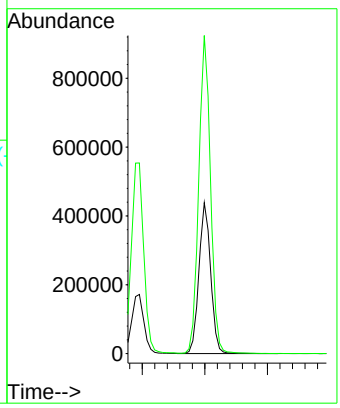
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

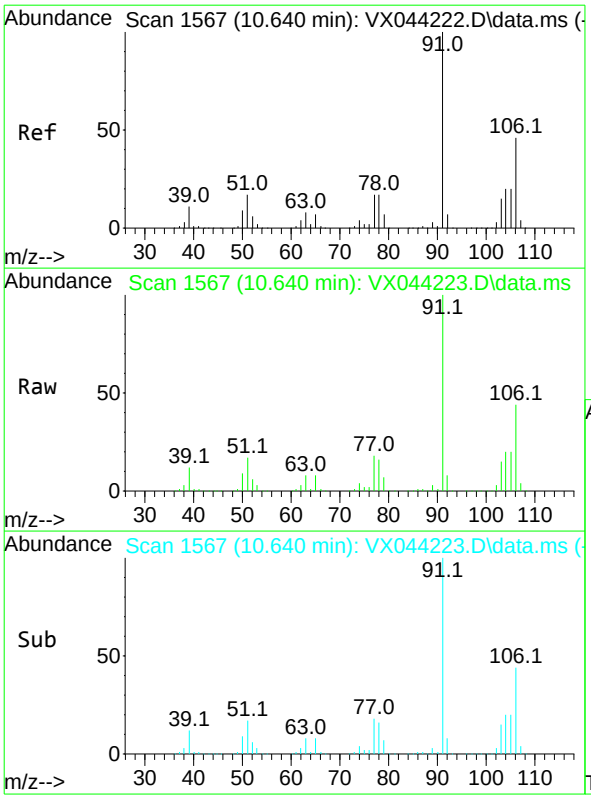


#68
m/p-Xylenes
Concen: 201.171 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:106 Resp: 571648

Ion	Ratio	Lower	Upper
106	100		
91	211.0	170.2	255.2

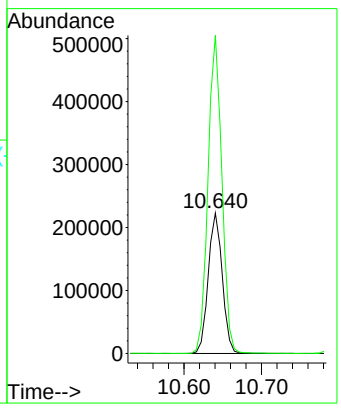




#69
o-Xylene
Concen: 97.597 ug/l
RT: 10.640 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:106 Resp: 280603

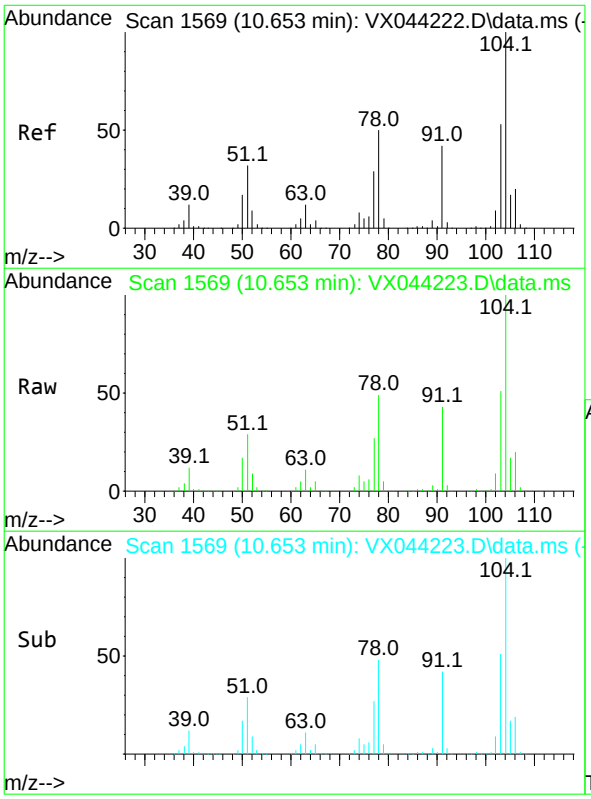
Ion	Ratio	Lower	Upper
106	100		
91	223.9	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

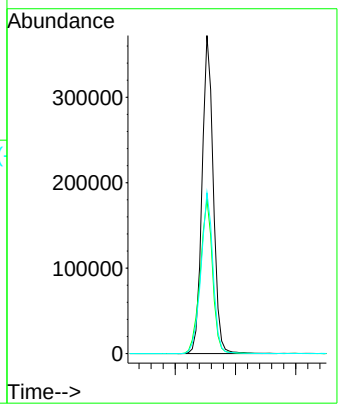
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

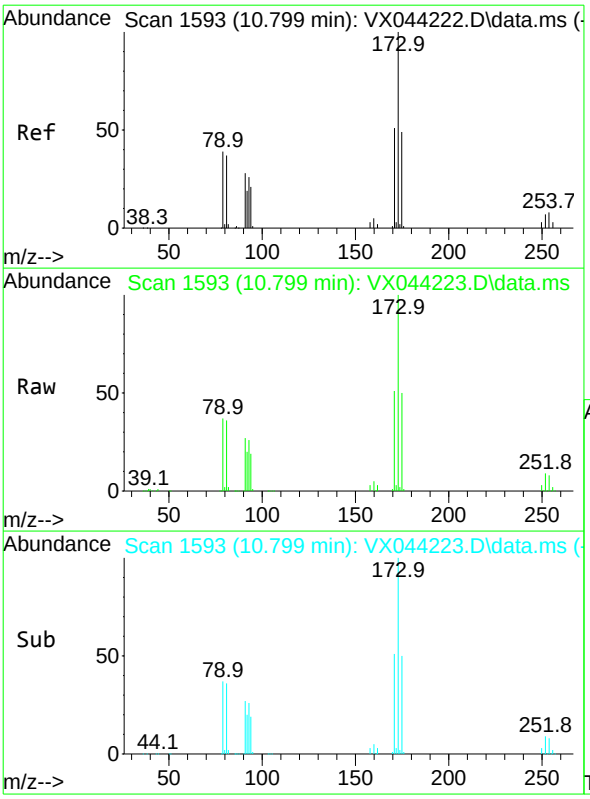


#70
Styrene
Concen: 104.159 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:104 Resp: 480077

Ion	Ratio	Lower	Upper
104	100		
78	53.5	44.6	67.0
103	54.5	45.4	68.0

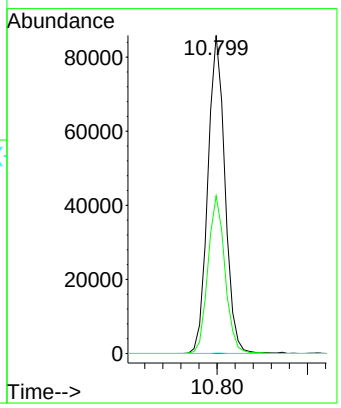




#71
Bromoform
Concen: 99.723 ug/l
RT: 10.799 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:173 Resp: 112482

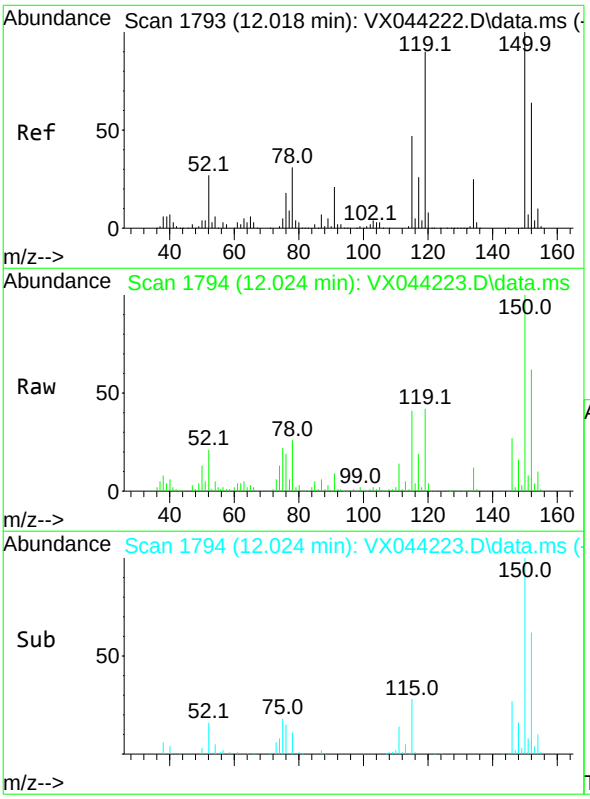
Ion	Ratio	Lower	Upper
173	100		
175	49.2	23.8	71.4
254	0.1	0.0	0.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

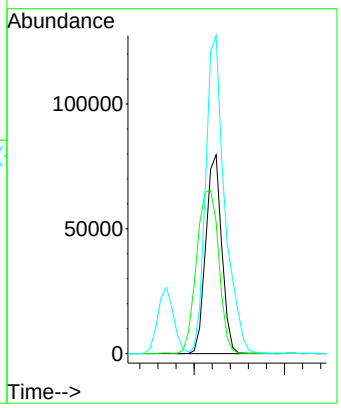
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

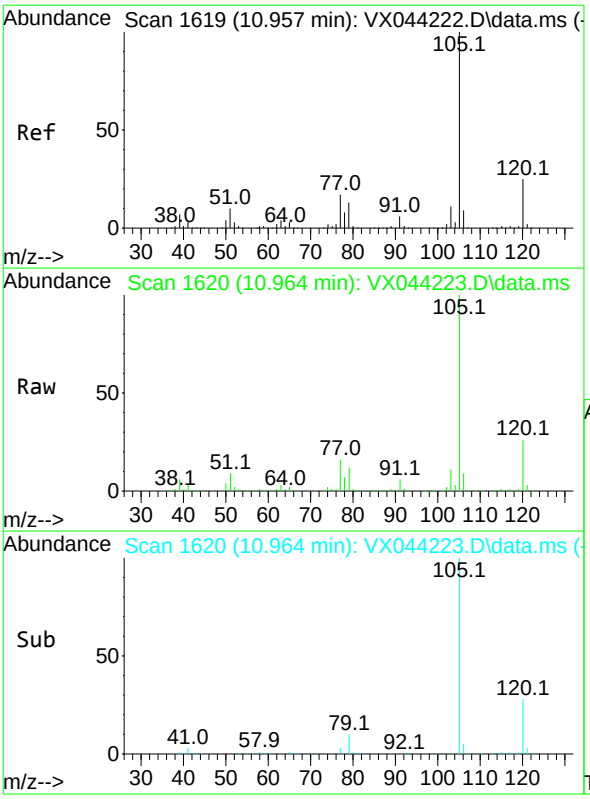


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:152 Resp: 97670

Ion	Ratio	Lower	Upper
152	100		
115	114.3	44.5	133.3
150	190.6	0.0	353.8

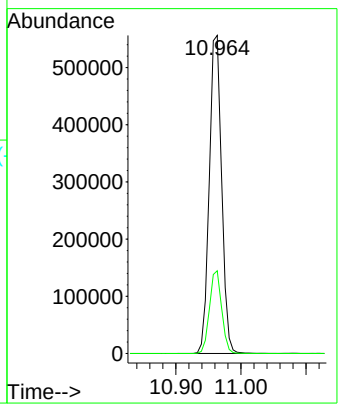




#73
Isopropylbenzene
Concen: 97.894 ug/l
RT: 10.964 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:105 Resp: 731955

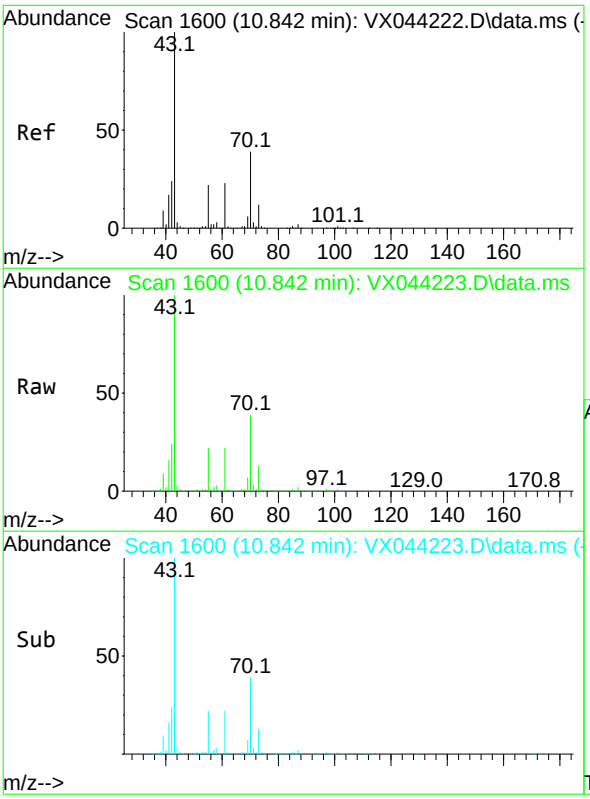
Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

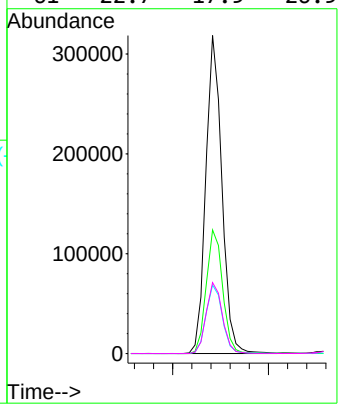
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

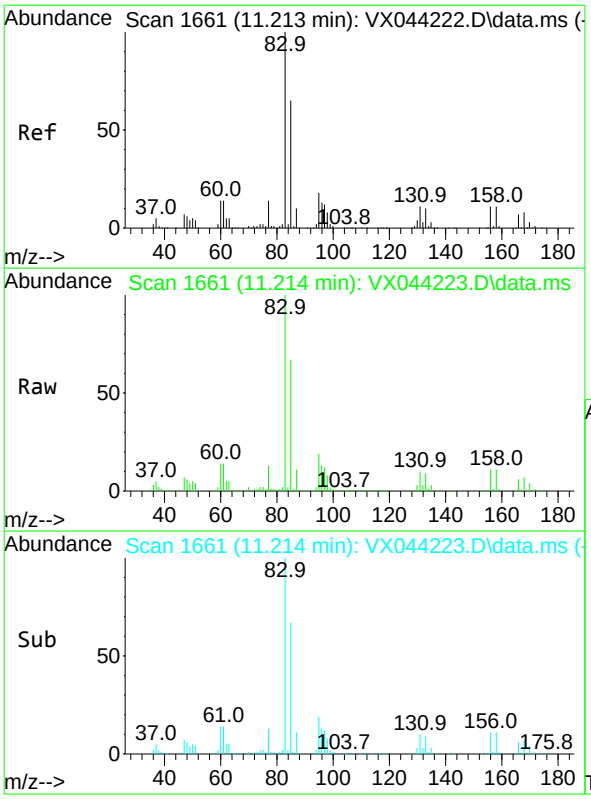


#74
N-amyl acetate
Concen: 107.485 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 371420

Ion	Ratio	Lower	Upper
43	100		
70	39.7	31.9	47.9
55	22.2	17.9	26.9
61	22.7	17.9	26.9





#75
1,1,2,2-Tetrachloroethane
Concen: 94.491 ug/l
RT: 11.214 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

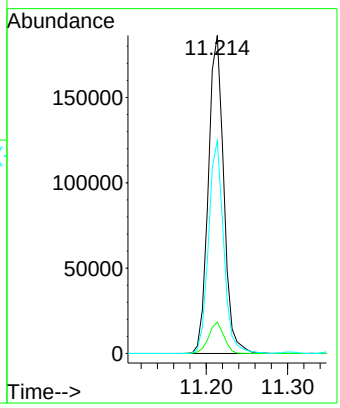
Tgt Ion: 83 Resp: 245395

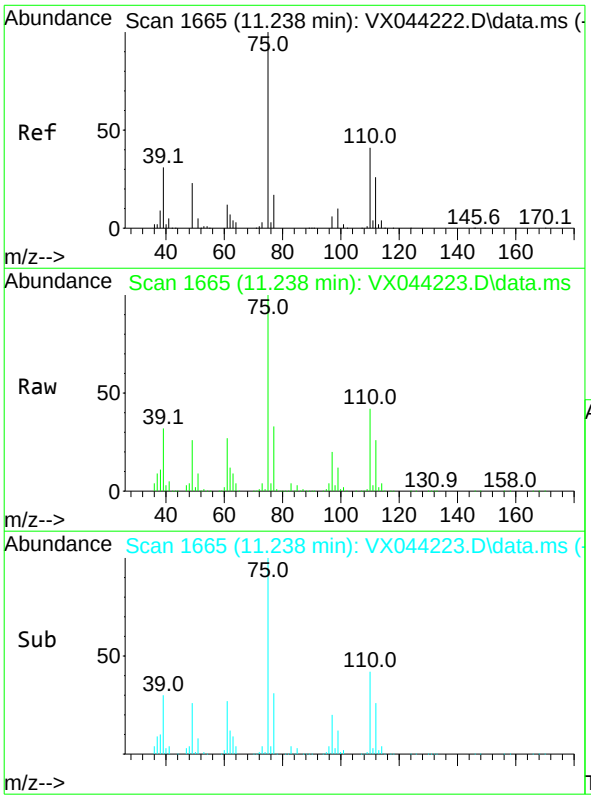
Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.4
85	65.4	32.5	97.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

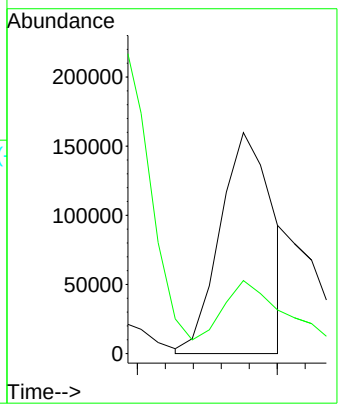


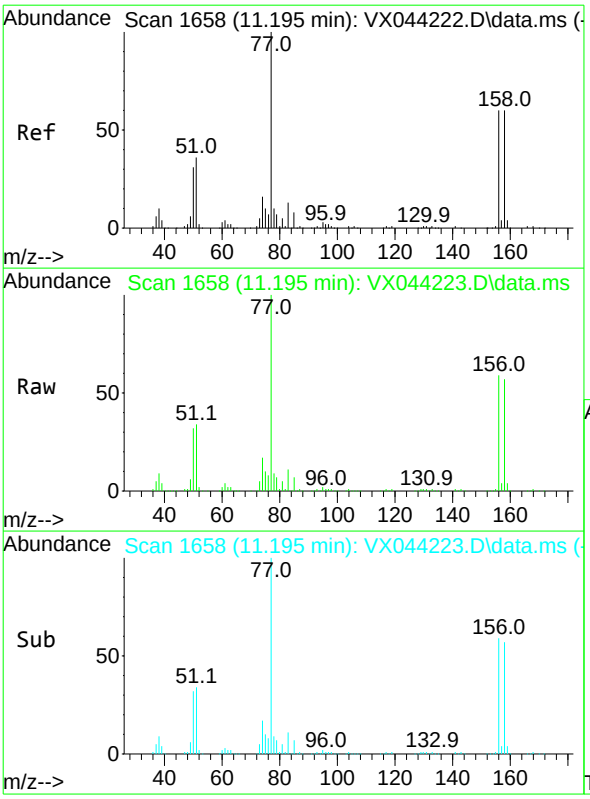


#76
1,2,3-Trichloropropane
Concen: 93.302 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 206786

Ion	Ratio	Lower	Upper
75	100		
77	43.4	20.9	62.7





#77
Bromobenzene
Concen: 96.874 ug/l
RT: 11.195 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

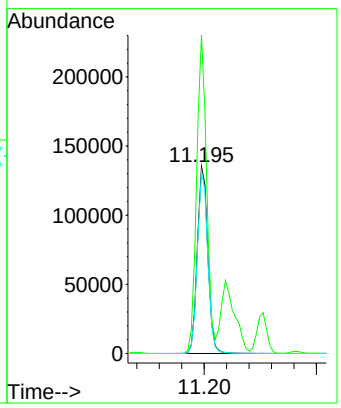
Tgt Ion:156 Resp: 175647

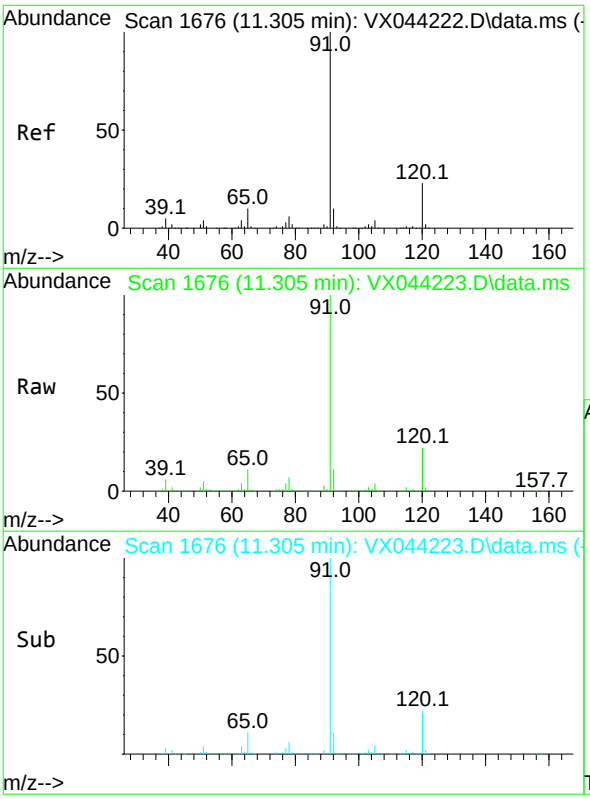
Ion	Ratio	Lower	Upper
156	100		
77	162.7	82.6	247.8
158	96.2	48.8	146.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

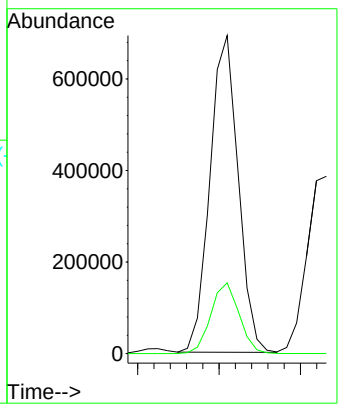


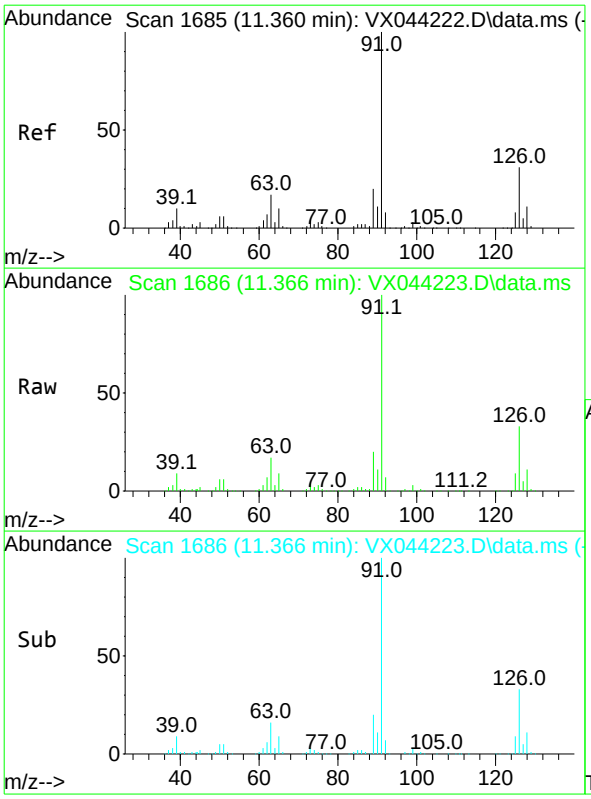


#78
n-propylbenzene
Concen: 101.242 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 91 Resp: 836676

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.0	33.0

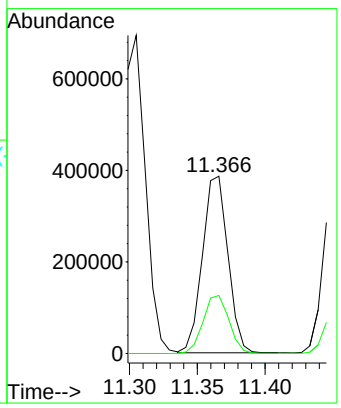




#79
2-Chlorotoluene
Concen: 94.377 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 91 Resp: 504407

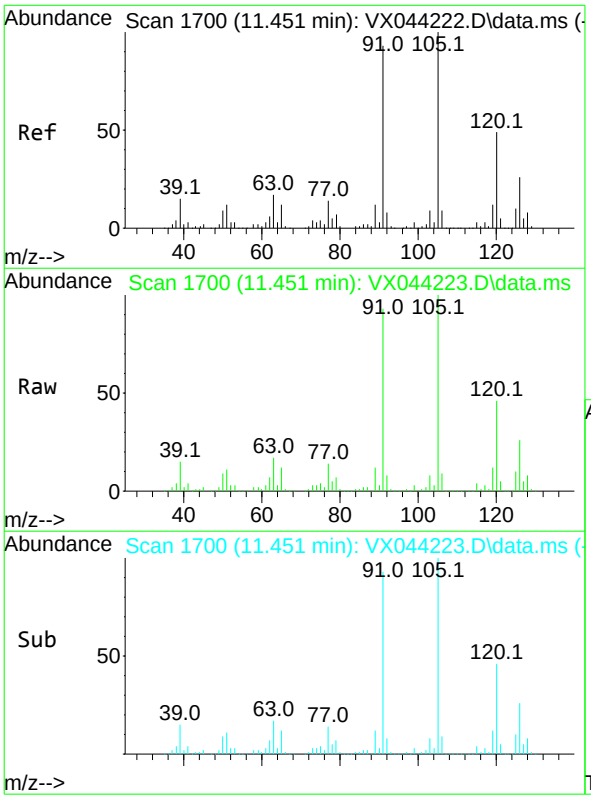
Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

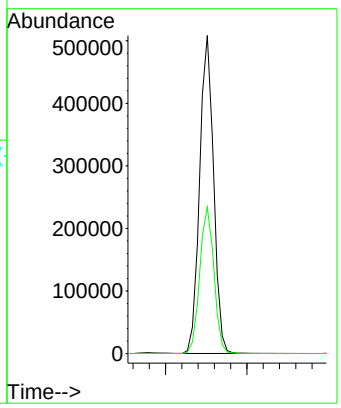
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

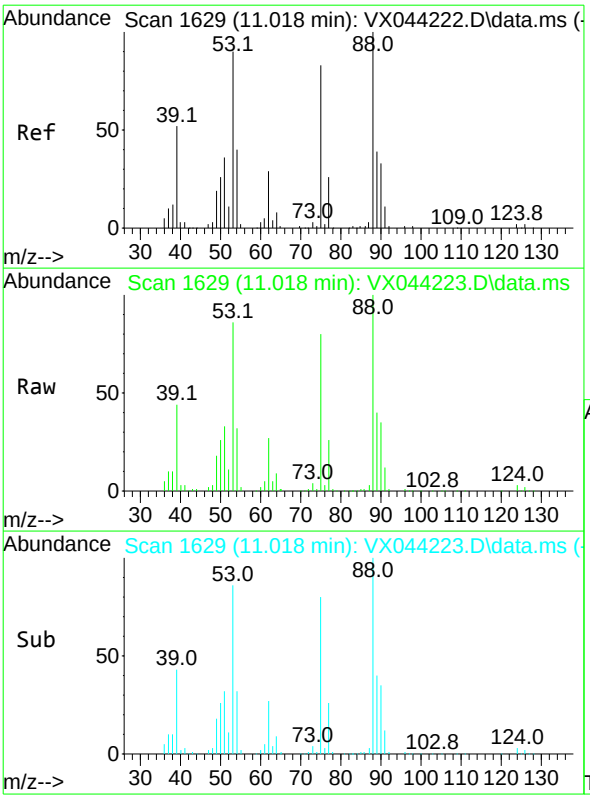


#80
1,3,5-Trimethylbenzene
Concen: 97.570 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:105 Resp: 604993

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.8	71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 97.165 ug/l
RT: 11.018 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

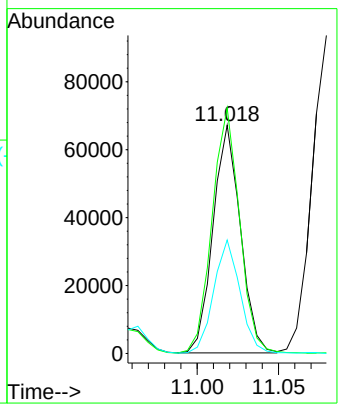
Tgt Ion: 75 Resp: 78453

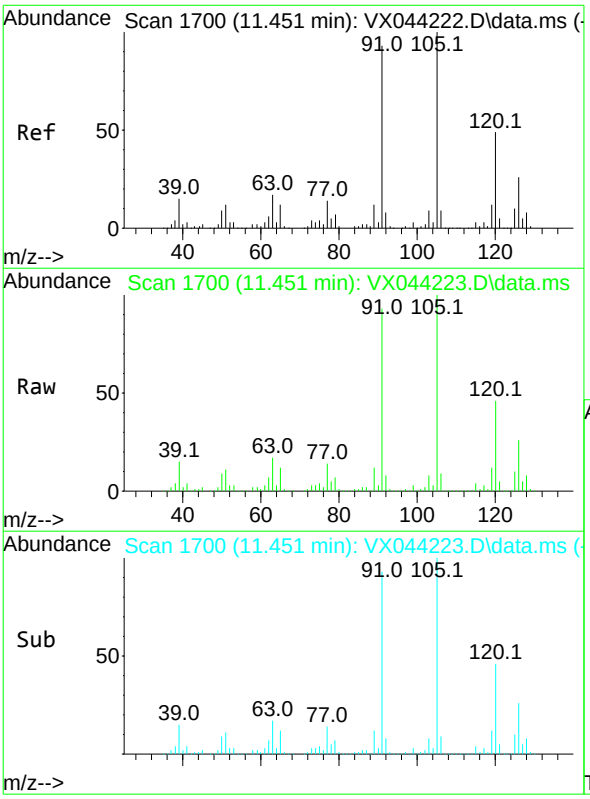
Ion	Ratio	Lower	Upper
75	100		
53	107.9	93.6	140.4
89	47.8	37.3	55.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

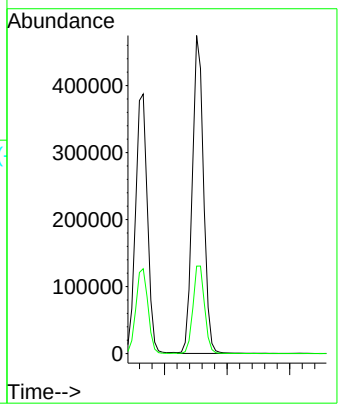


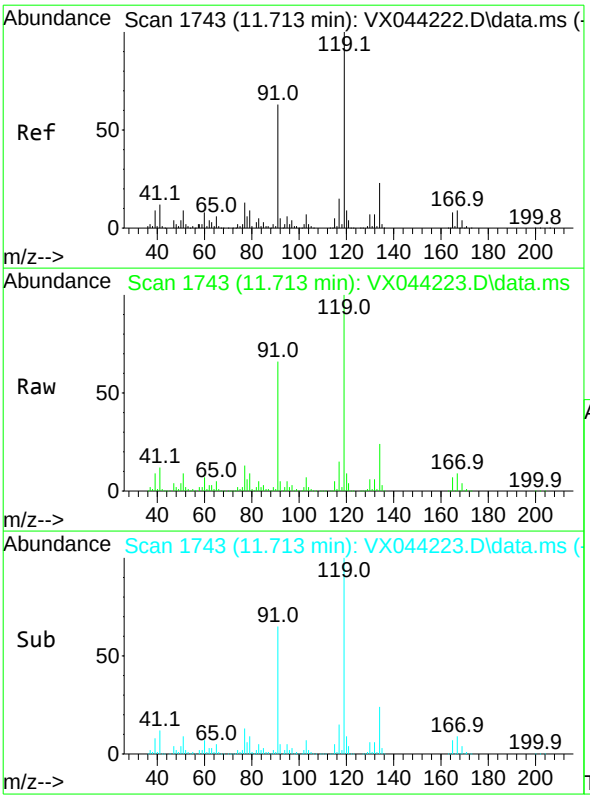


#82
4-Chlorotoluene
Concen: 99.384 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 91 Resp: 588197

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.5	43.5

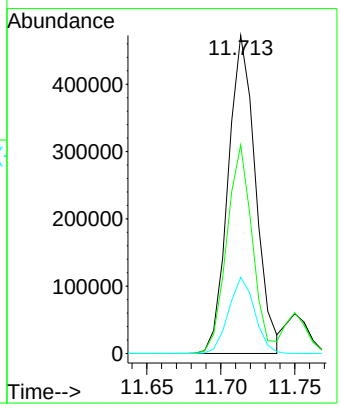




#83
tert-Butylbenzene
Concen: 99.013 ug/l
RT: 11.713 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:119 Resp: 606738

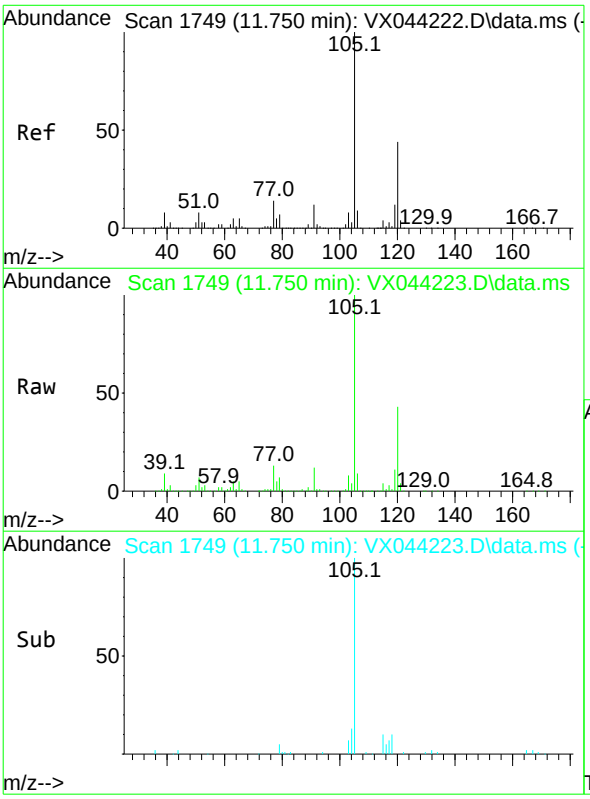
Ion	Ratio	Lower	Upper
119	100		
91	61.5	30.9	92.5
134	22.8	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

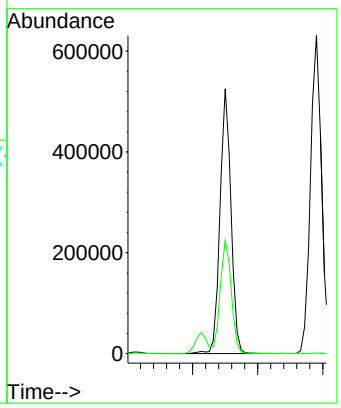
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

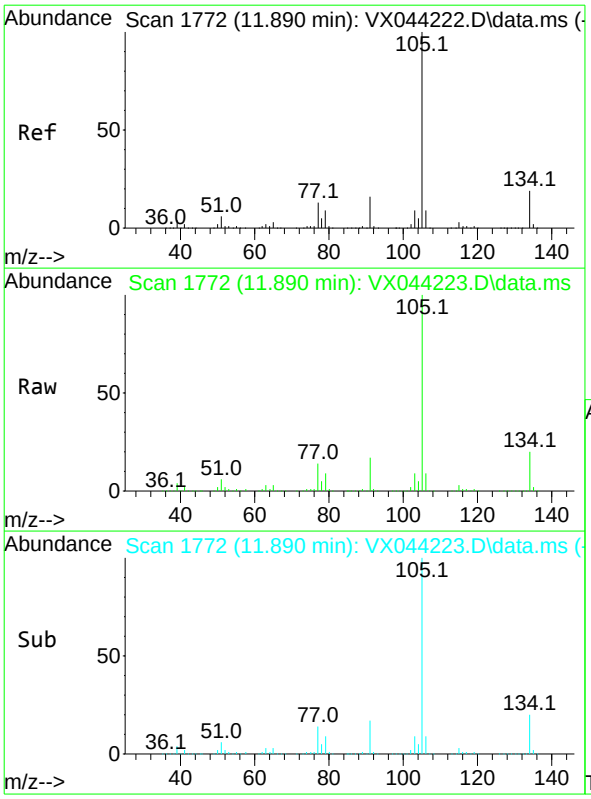


#84
1,2,4-Trimethylbenzene
Concen: 100.994 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:105 Resp: 614999

Ion	Ratio	Lower	Upper
105	100		
120	43.3	21.7	65.1

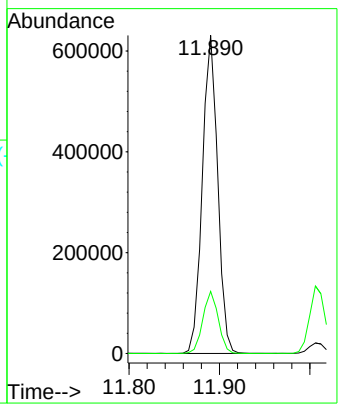




#85
sec-Butylbenzene
Concen: 99.889 ug/l
RT: 11.890 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:105 Resp: 743098

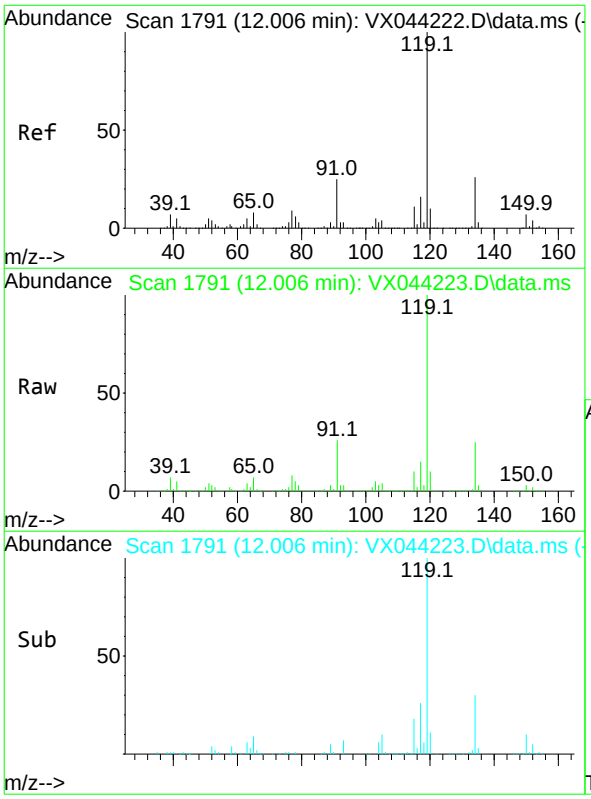
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

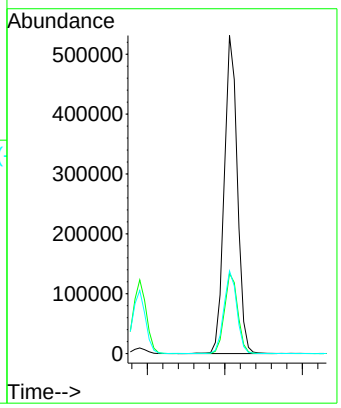
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

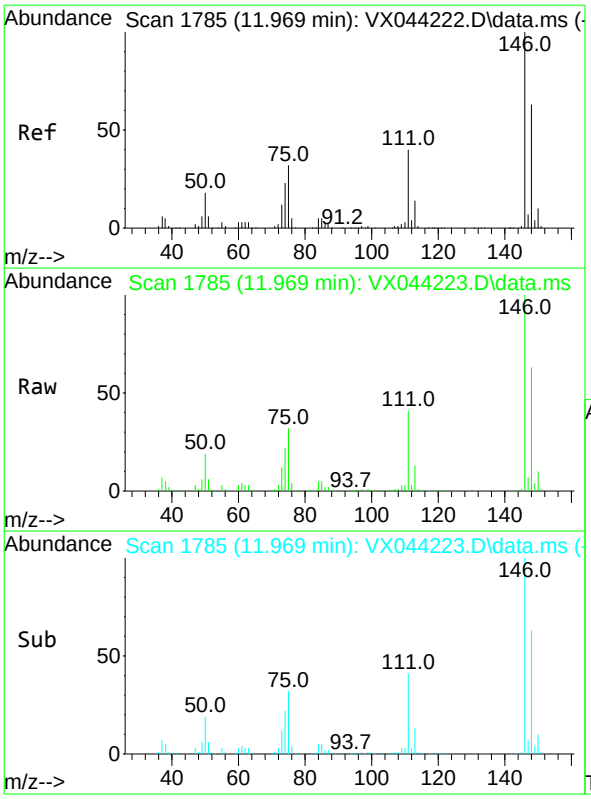


#86
p-Isopropyltoluene
Concen: 100.847 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:119 Resp: 624416

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.8	38.4
91	25.6	13.0	39.0

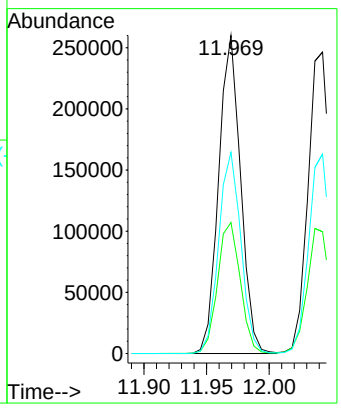




#87
1,3-Dichlorobenzene
Concen: 100.210 ug/l
RT: 11.969 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:146 Resp: 317377

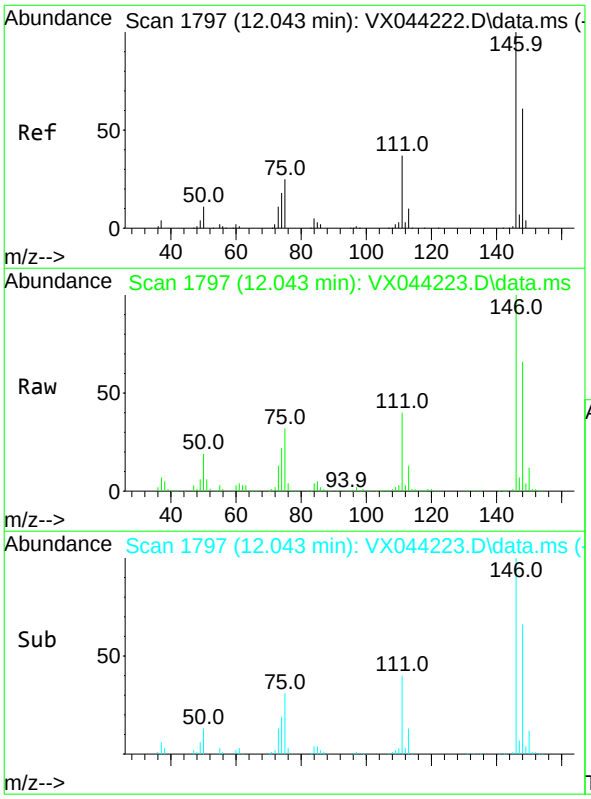
Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.4	64.2
148	64.1	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

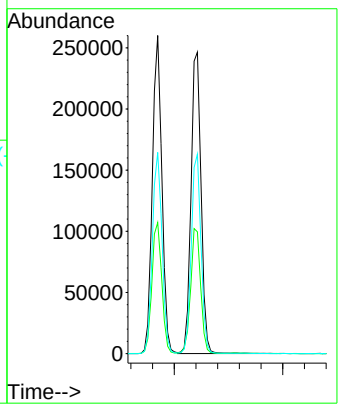
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

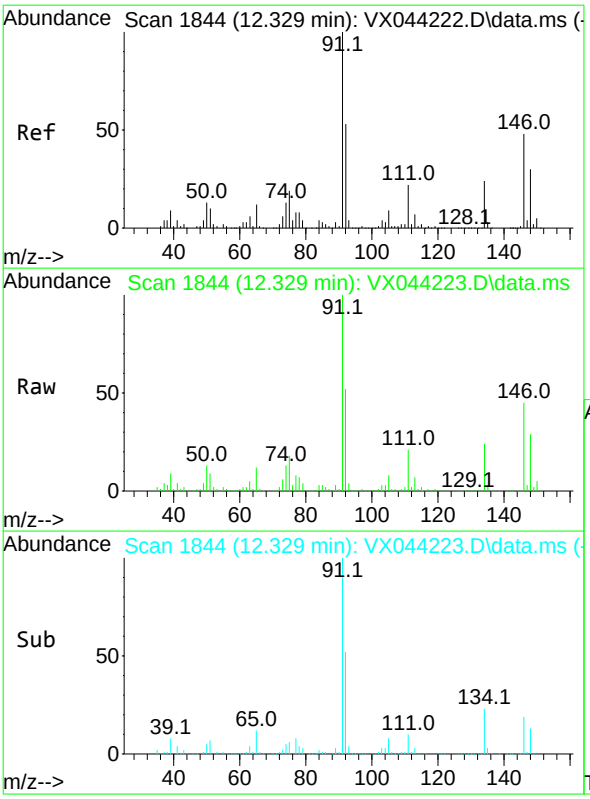


#88
1,4-Dichlorobenzene
Concen: 97.271 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:146 Resp: 316688

Ion	Ratio	Lower	Upper
146	100		
111	41.0	21.0	63.0
148	63.7	32.3	96.8





#89
n-Butylbenzene
Concen: 108.385 ug/l
RT: 12.329 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

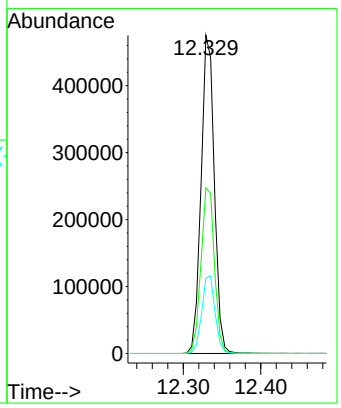
Tgt Ion: 91 Resp: 564303

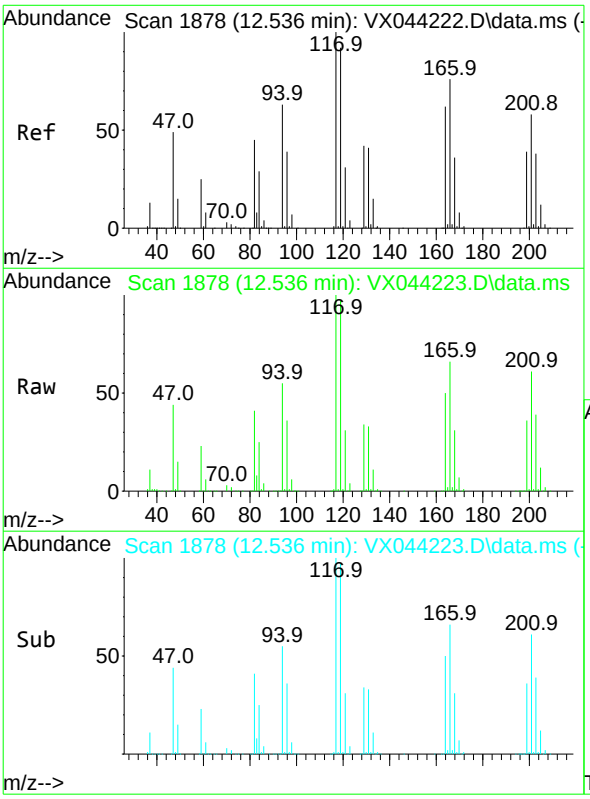
Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.6	79.7
134	24.5	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

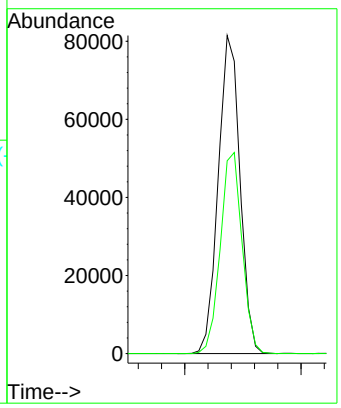


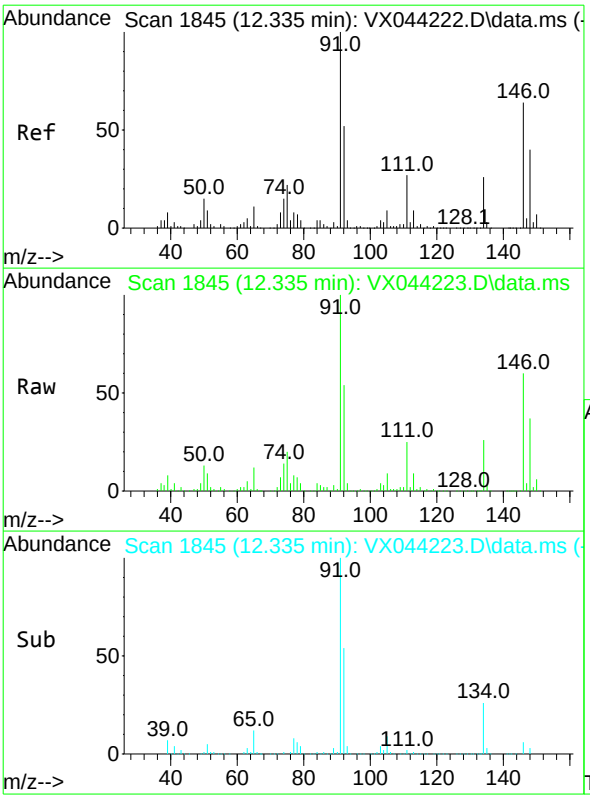


#90
Hexachloroethane
Concen: 117.218 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:117 Resp: 105946

Ion	Ratio	Lower	Upper
117	100		
201	63.2	31.4	94.2





#91
1,2-Dichlorobenzene
Concen: 98.232 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

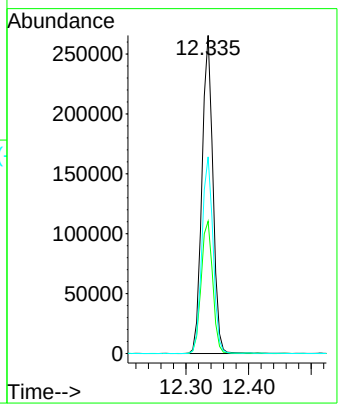
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

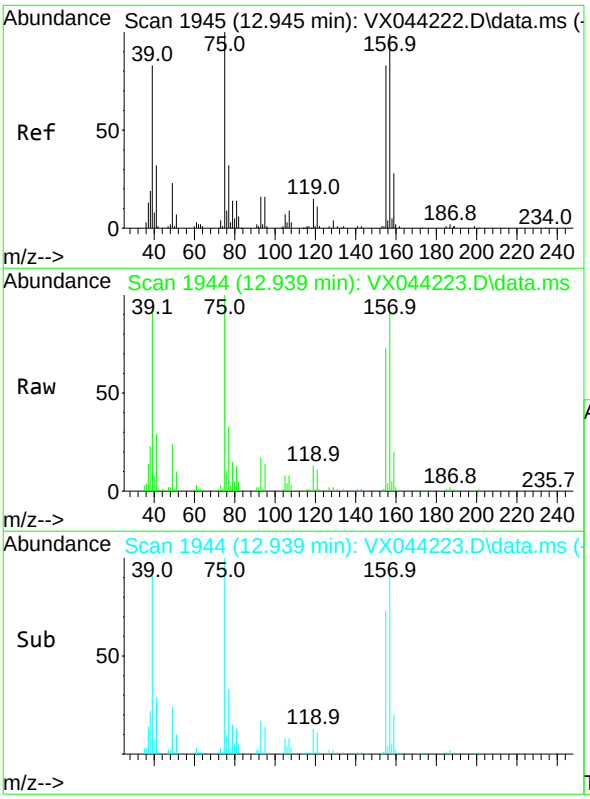
Tgt Ion:146 Resp: 323040

Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.4	64.3
148	62.6	31.6	95.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

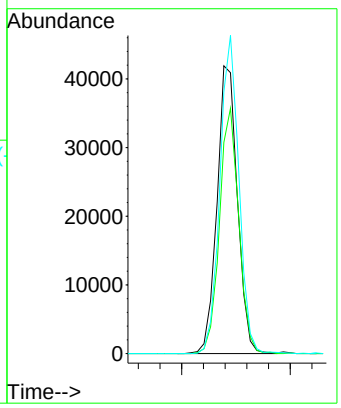


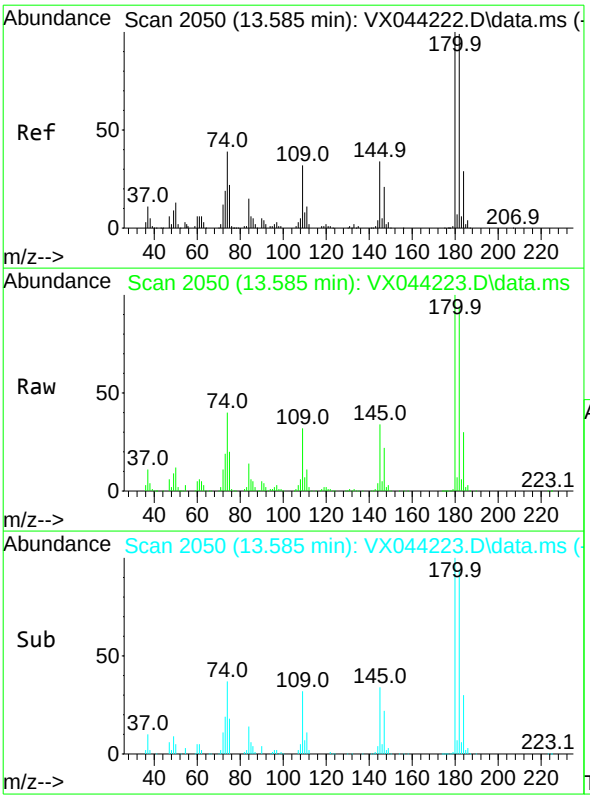


#92
1,2-Dibromo-3-Chloropropane
Concen: 108.279 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 54588

Ion	Ratio	Lower	Upper
75	100		
155	80.6	38.1	114.3
157	102.8	47.2	141.6

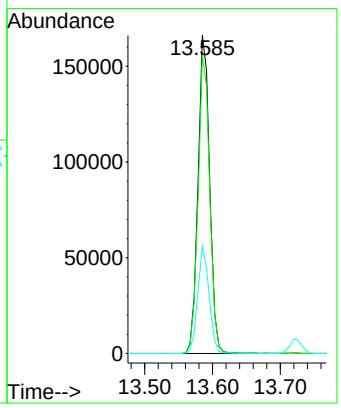




#93
1,2,4-Trichlorobenzene
Concen: 109.766 ug/l
RT: 13.585 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:180 Resp: 197899

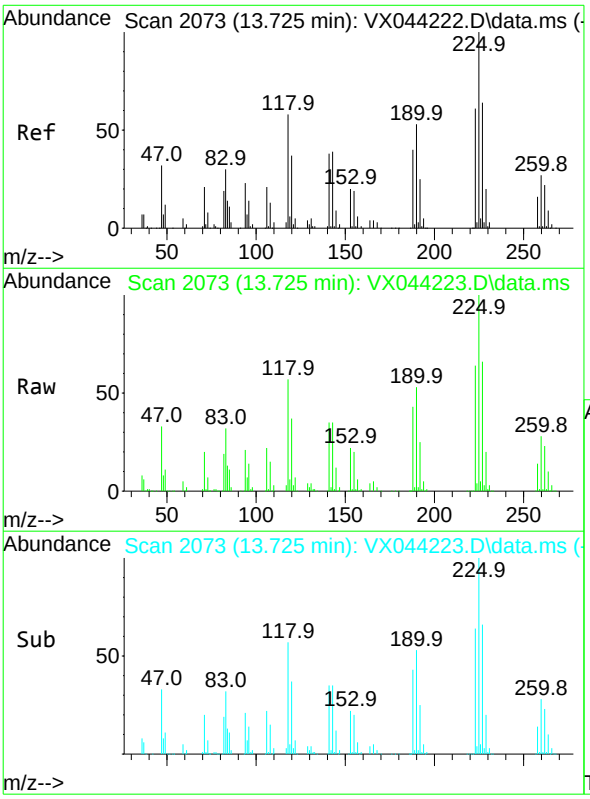
Ion	Ratio	Lower	Upper
180	100		
182	93.5	48.0	144.2
145	32.9	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

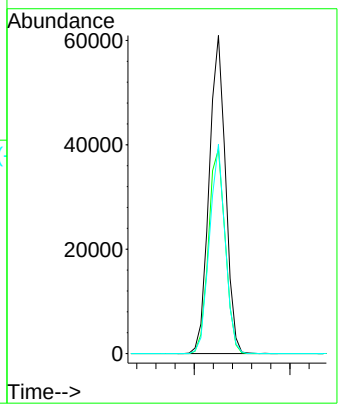
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

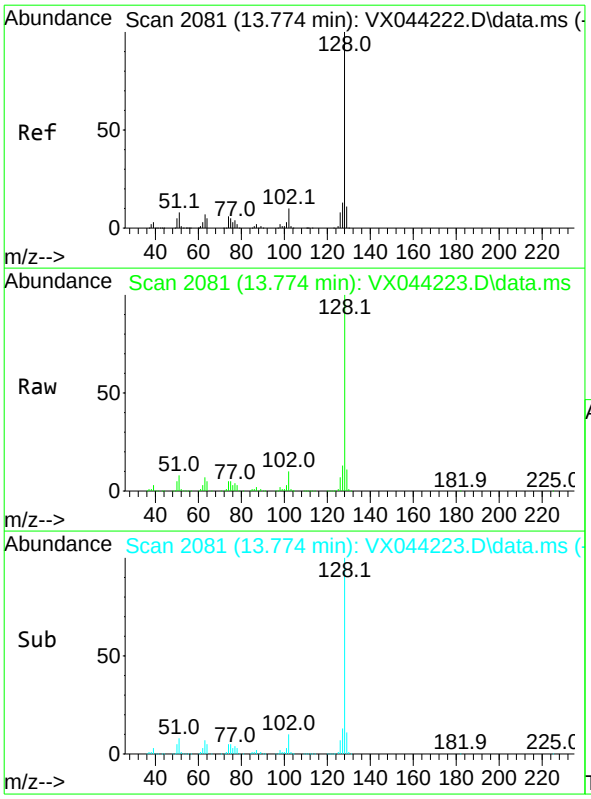


#94
Hexachlorobutadiene
Concen: 99.908 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:225 Resp: 72453

Ion	Ratio	Lower	Upper
225	100		
223	65.5	30.8	92.4
227	62.9	32.1	96.3

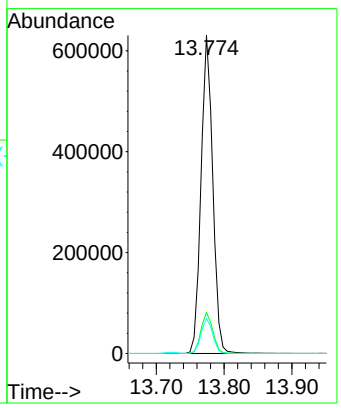




#95
Naphthalene
Concen: 107.308 ug/l
RT: 13.774 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:128 Resp: 755181

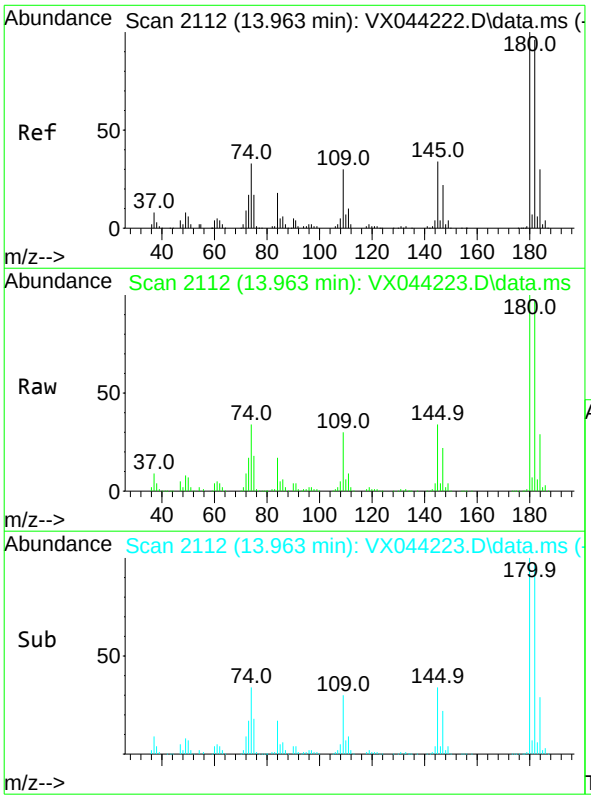
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.9	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

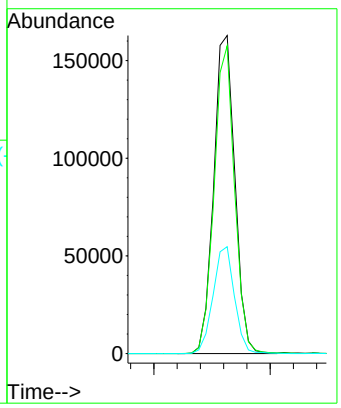
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 107.754 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:180 Resp: 206053

Ion	Ratio	Lower	Upper
180	100		
182	93.8	48.0	144.0
145	34.1	17.7	53.1



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	117957	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	218610	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	190013	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	90898	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	314272	151.956	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 303.920%#			
35) Dibromofluoromethane	5.385	113	231937	153.188	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 306.380%#			
50) Toluene-d8	8.647	98	788876	154.438	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 308.880%#			
62) 4-Bromofluorobenzene	11.079	95	279706	156.709	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 313.420%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	268739	147.342	ug/l	98
3) Chloromethane	1.294	50	261734	150.062	ug/l	97
4) Vinyl Chloride	1.374	62	260651	143.446	ug/l	97
5) Bromomethane	1.593	94	194089	150.562	ug/l	100
6) Chloroethane	1.660	64	150640	133.137	ug/l	98
7) Trichlorofluoromethane	1.861	101	500315	140.645	ug/l	99
8) Diethyl Ether	2.136	74	183845	151.407	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.312	101	219513	152.497	ug/l	99
10) Methyl Iodide	2.441	142	284184	149.795	ug/l	99
11) Tert butyl alcohol	3.014	59	266830	916.880	ug/l	98
12) 1,1-Dichloroethene	2.306	96	211016	159.600	ug/l	96
13) Acrolein	2.239	56	341487	809.350	ug/l	100
14) Allyl chloride	2.654	41	346773	157.465	ug/l	99
15) Acrylonitrile	3.068	53	649783	804.774	ug/l	99
16) Acetone	2.392	43	658120	780.537	ug/l	98
17) Carbon Disulfide	2.495	76	481926	191.754	ug/l	99
18) Methyl Acetate	2.709	43	336516	154.792	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	806360	156.286	ug/l	98
20) Methylene Chloride	2.782	84	236412	149.282	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	221622	157.719	ug/l	99
22) Diisopropyl ether	3.763	45	751292	151.500	ug/l	98
23) Vinyl Acetate	3.727	43	3464902	859.417	ug/l	99
24) 1,1-Dichloroethane	3.605	63	431006	155.921	ug/l	100
25) 2-Butanone	4.568	43	957709	798.973	ug/l	99
26) 2,2-Dichloropropane	4.465	77	367781	163.773	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	269708	151.131	ug/l	99
28) Bromochloromethane	4.897	49	200978	148.269	ug/l	100
29) Tetrahydrofuran	5.013	42	602095	782.561	ug/l	99
30) Chloroform	5.092	83	463606	149.274	ug/l	99
31) Cyclohexane	5.458	56	332026	148.745	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	415253	161.073	ug/l	99
36) 1,1-Dichloropropene	5.684	75	290913	148.642	ug/l	99
37) Ethyl Acetate	4.721	43	376757	155.731	ug/l	99
38) Carbon Tetrachloride	5.672	117	346795	164.587	ug/l	98
39) Methylcyclohexane	7.373	83	368542	157.516	ug/l	99
40) Benzene	6.031	78	887413	149.340	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.928	41	199851	155.569 ug/l	99
42) 1,2-Dichloroethane	6.086	62	369874	151.105 ug/l	100
43) Isopropyl Acetate	6.342	43	617107	163.200 ug/l	99
44) Trichloroethene	7.123	130	224164	151.275 ug/l	100
45) 1,2-Dichloropropane	7.427	63	224224	147.697 ug/l	96
46) Dibromomethane	7.580	93	184590	156.728 ug/l	99
47) Bromodichloromethane	7.818	83	352904	173.496 ug/l	98
48) Methyl methacrylate	7.696	41	292890	159.567 ug/l	98
49) 1,4-Dioxane	7.665	88	101048m	3221.248 ug/l	
51) 4-Methyl-2-Pentanone	8.580	43	1907523	784.573 ug/l	99
52) Toluene	8.714	92	557102	149.294 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	366275	150.167 ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	382226	172.581 ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	222665	150.202 ug/l	98
56) Ethyl methacrylate	9.116	69	389165	166.289 ug/l	99
57) 1,3-Dichloropropane	9.305	76	387086	150.014 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.244	63	970949	822.575 ug/l	100
59) 2-Hexanone	9.433	43	1436300	816.161 ug/l	99
60) Dibromochloromethane	9.525	129	261253	150.105 ug/l	99
61) 1,2-Dibromoethane	9.610	107	242451	160.674 ug/l	97
64) Tetrachloroethene	9.269	164	186443	147.836 ug/l	98
65) Chlorobenzene	10.079	112	608404	149.428 ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	218515	166.991 ug/l	100
67) Ethyl Benzene	10.195	91	1068736	151.917 ug/l	98
68) m/p-Xylenes	10.299	106	806058	312.254 ug/l	98
69) o-Xylene	10.640	106	397084	152.030 ug/l	98
70) Styrene	10.652	104	670887	160.228 ug/l	98
71) Bromoform	10.799	173	169450	150.034 ug/l #	99
73) Isopropylbenzene	10.963	105	1021749	146.832 ug/l	99
74) N-amyl acetate	10.841	43	536496	166.823 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	352591	145.883 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	287602m	139.434 ug/l	
77) Bromobenzene	11.201	156	243975	144.584 ug/l	100
78) n-propylbenzene	11.305	91	1166255	151.637 ug/l	98
79) 2-Chlorotoluene	11.366	91	700673	140.866 ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	853042	147.824 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	117263	152.670 ug/l	93
82) 4-Chlorotoluene	11.451	91	825278	149.831 ug/l	99
83) tert-Butylbenzene	11.713	119	846864	148.495 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	846771	149.414 ug/l	100
85) sec-Butylbenzene	11.890	105	1034419	149.409 ug/l	99
86) p-Isopropyltoluene	12.006	119	875562	151.944 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	443826	150.575 ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	442556	146.058 ug/l	99
89) n-Butylbenzene	12.329	91	808399	166.836 ug/l	100
90) Hexachloroethane	12.536	117	154726	183.942 ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	447931	146.357 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	83565	178.106 ug/l	93
93) 1,2,4-Trichlorobenzene	13.585	180	288519	171.952 ug/l	98
94) Hexachlorobutadiene	13.725	225	103961	154.036 ug/l	98
95) Naphthalene	13.774	128	1094997	167.187 ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	293760	165.064 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

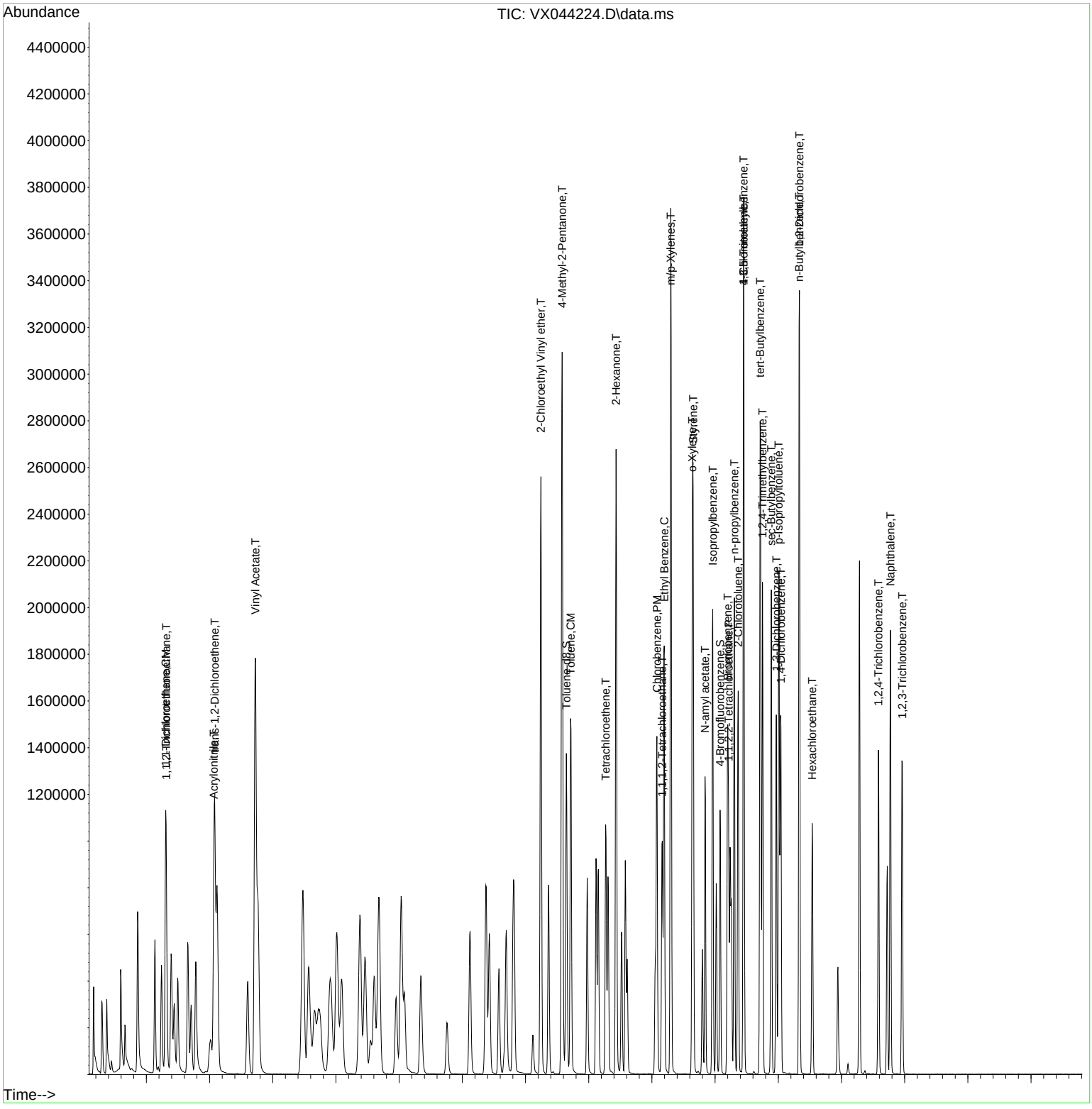
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

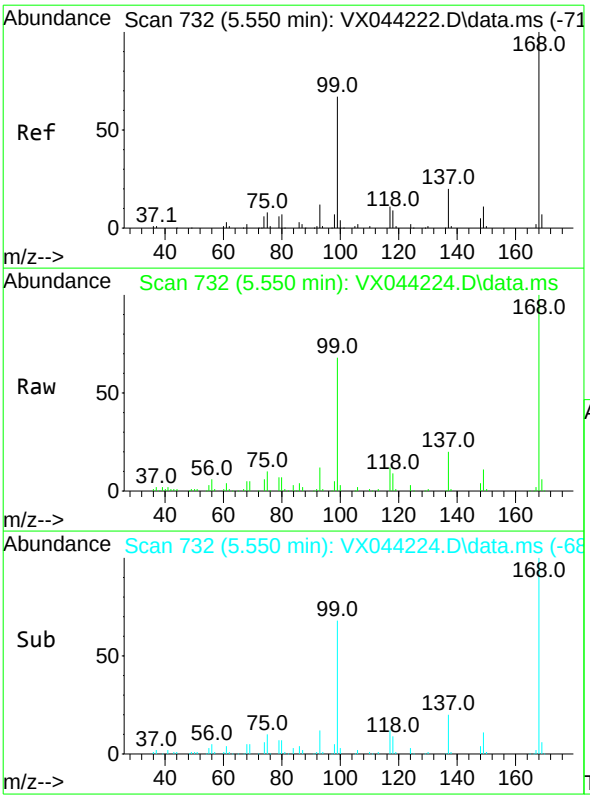
Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

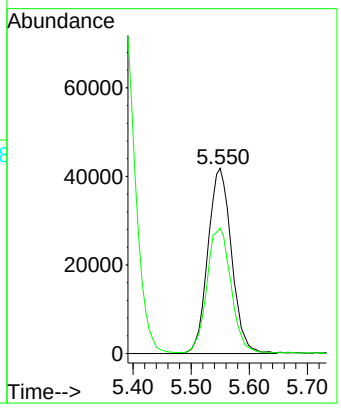




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:168 Resp: 117957

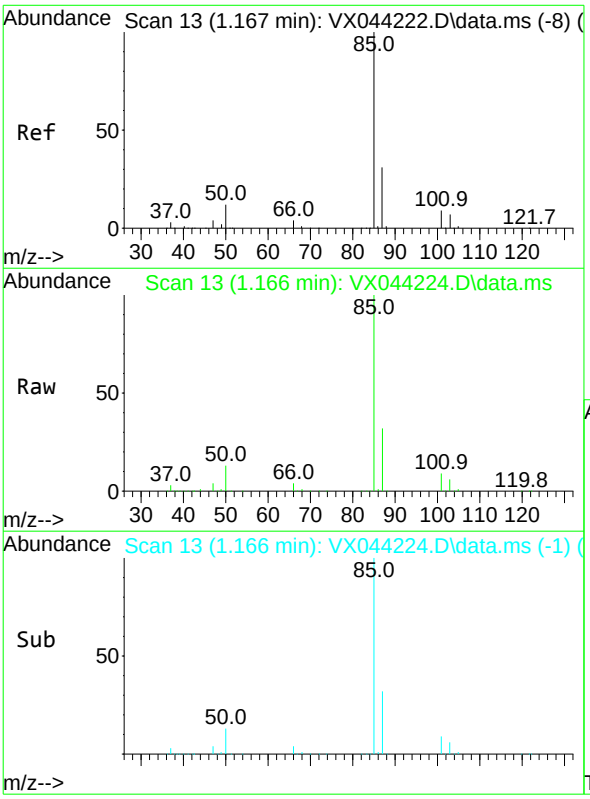
Ion	Ratio	Lower	Upper
168	100		
99	67.2	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

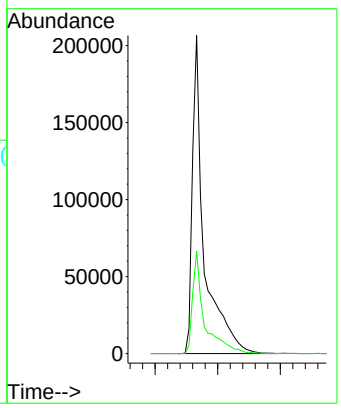
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

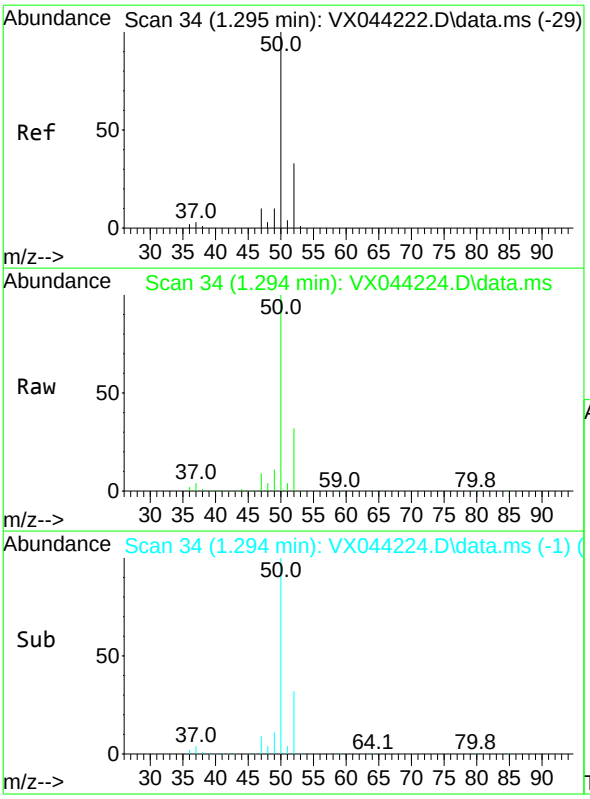


#2
Dichlorodifluoromethane
Concen: 147.342 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 85 Resp: 268739

Ion	Ratio	Lower	Upper
85	100		
87	32.2	15.4	46.4

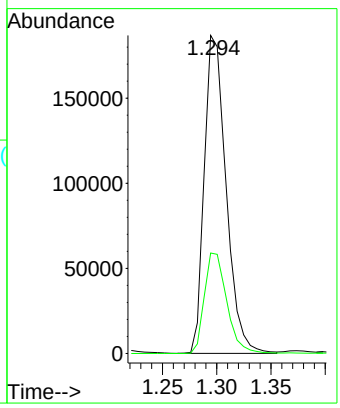




#3
Chloromethane
Concen: 150.062 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 50 Resp: 261734

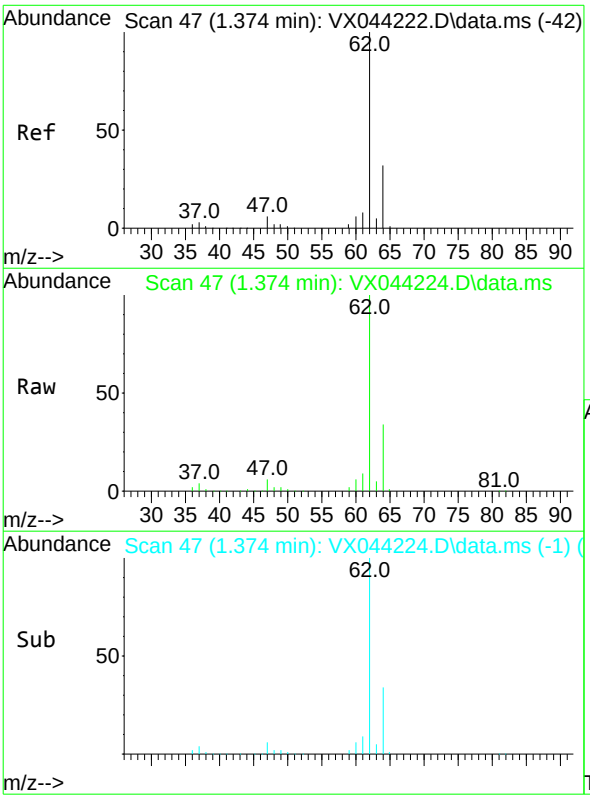
Ion	Ratio	Lower	Upper
50	100		
52	31.6	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

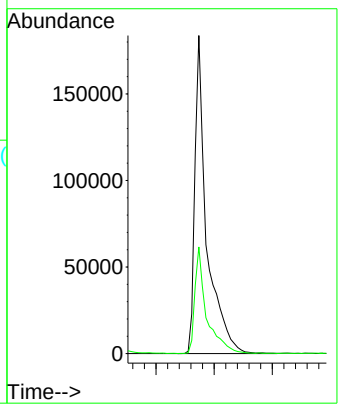
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

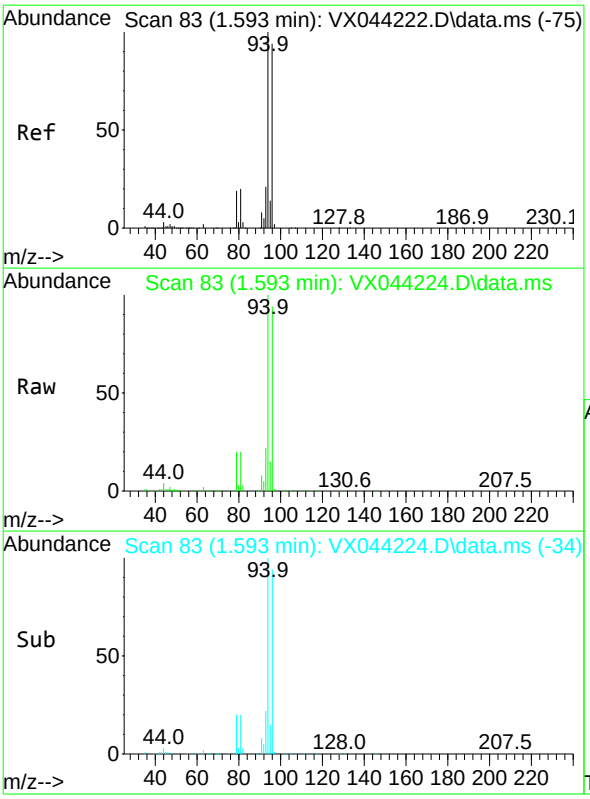


#4
Vinyl Chloride
Concen: 143.446 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 62 Resp: 260651

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.7	38.5

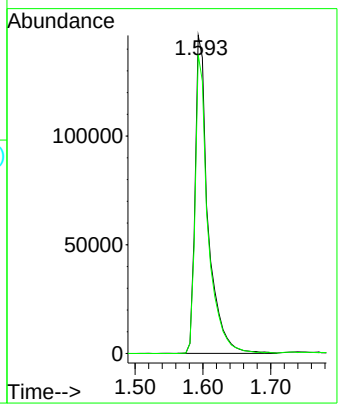




#5
Bromomethane
Concen: 150.562 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 94 Resp: 194089

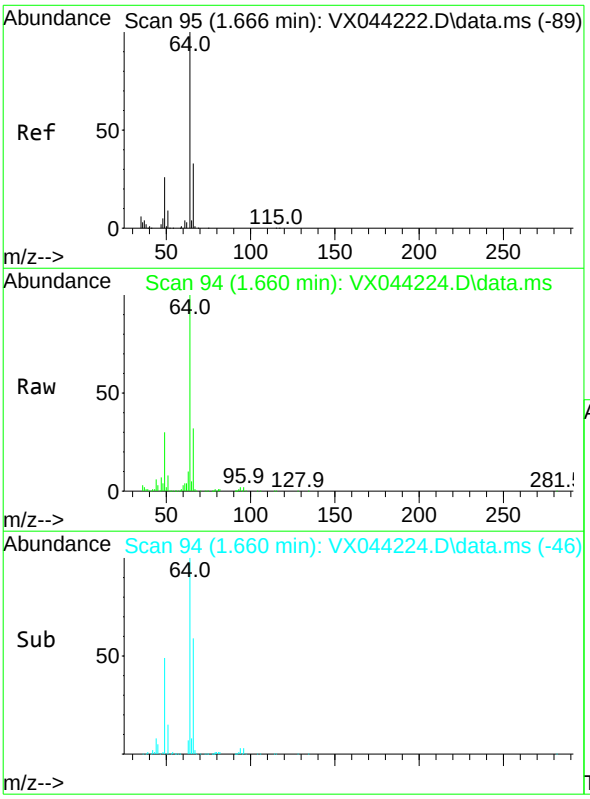
Ion	Ratio	Lower	Upper
94	100		
96	94.0	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

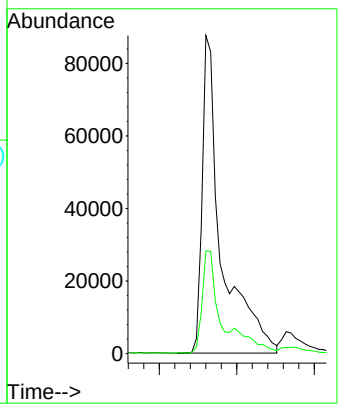
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

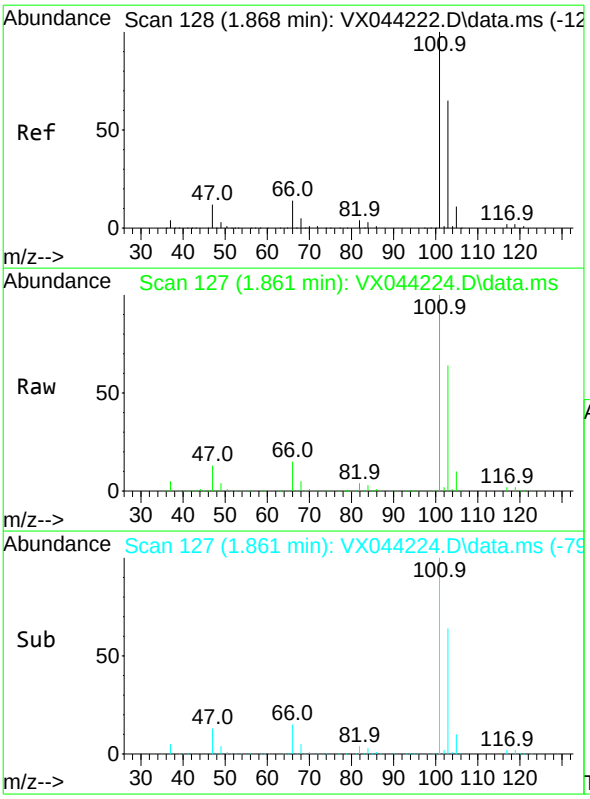


#6
Chloroethane
Concen: 133.137 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 64 Resp: 150640

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.6	39.8

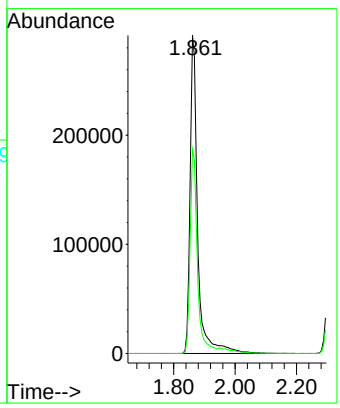




#7
Trichlorofluoromethane
Concen: 140.645 ug/l
RT: 1.861 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:101 Resp: 500315

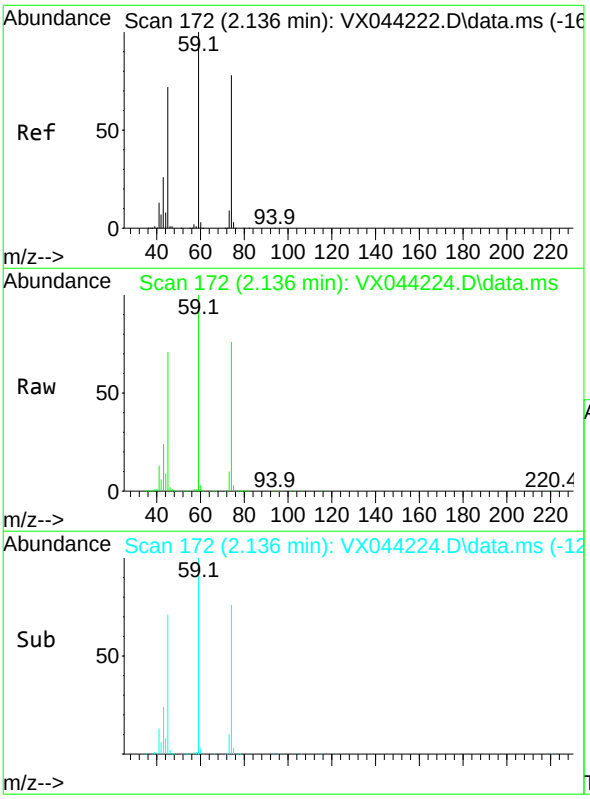
Ion	Ratio	Lower	Upper
101	100		
103	64.2	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

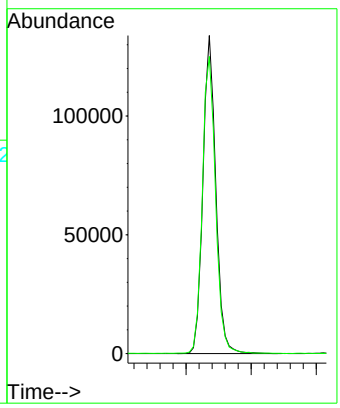
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

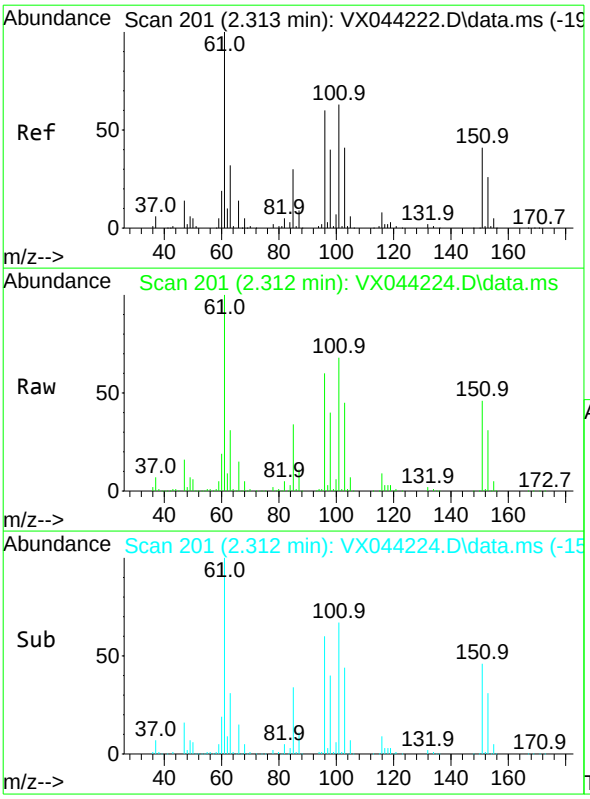


#8
Diethyl Ether
Concen: 151.407 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 74 Resp: 183845

Ion	Ratio	Lower	Upper
74	100		
45	96.6	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 152.497 ug/l
RT: 2.312 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

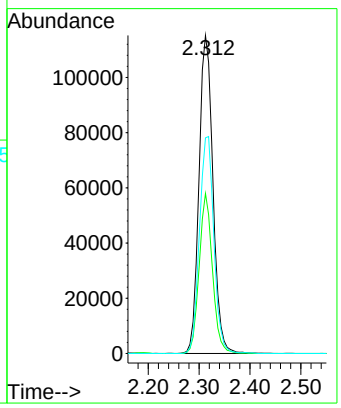
Tgt Ion:101 Resp: 219513

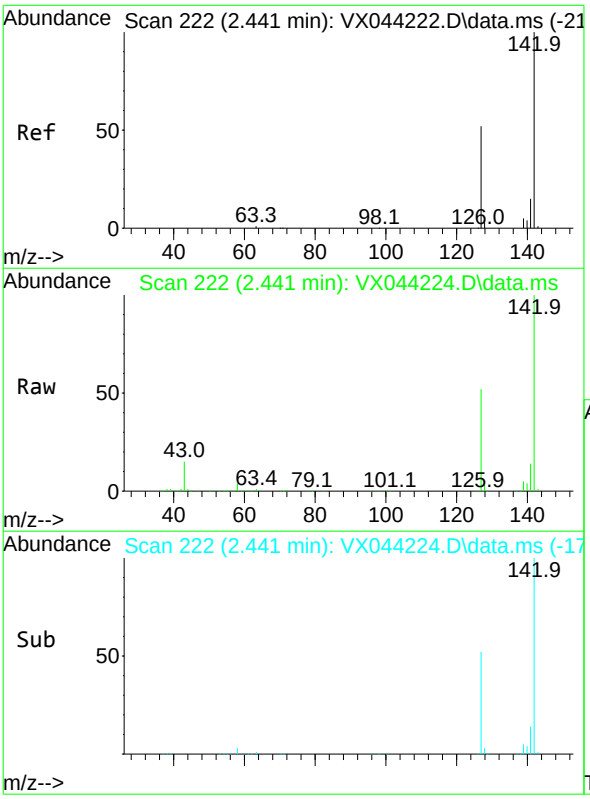
Ion	Ratio	Lower	Upper
101	100		
85	47.8	38.5	57.7
151	70.5	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

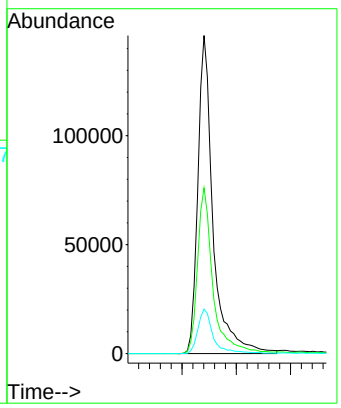


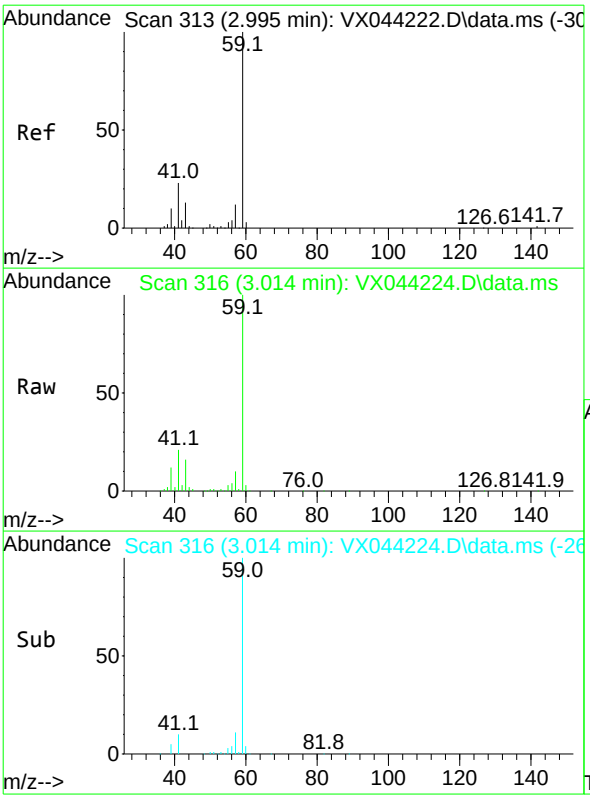


#10
Methyl Iodide
Concen: 149.795 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:142 Resp: 284184

Ion	Ratio	Lower	Upper
142	100		
127	52.8	41.8	62.8
141	14.2	11.5	17.3

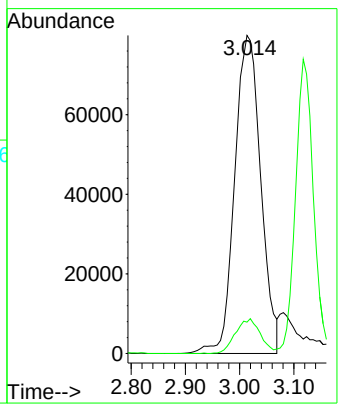




#11
Tert butyl alcohol
Concen: 916.880 ug/l
RT: 3.014 min Scan# 31
Delta R.T. 0.018 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 59 Resp: 266830

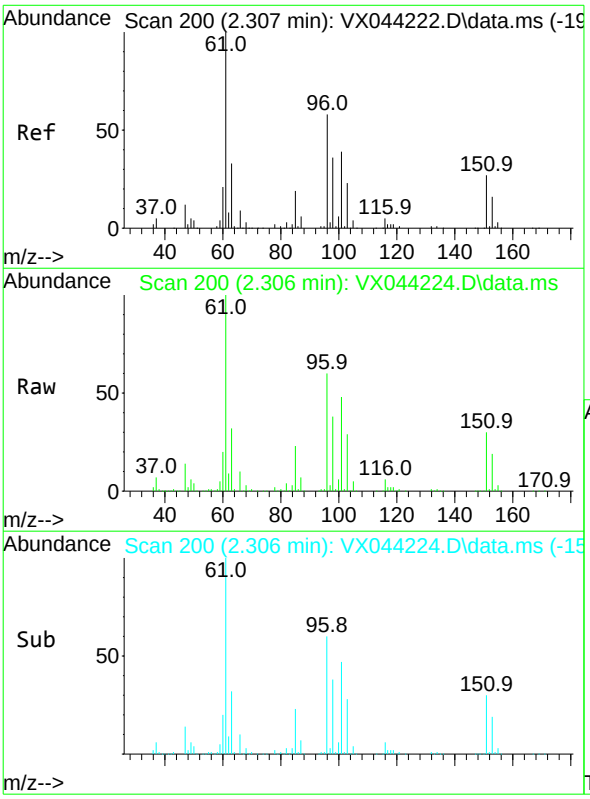
Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

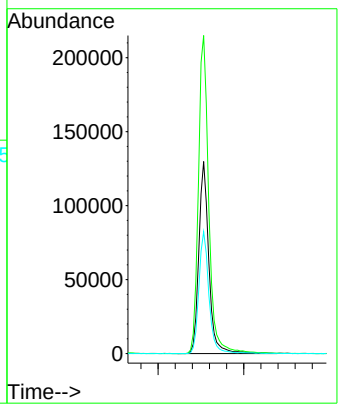
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

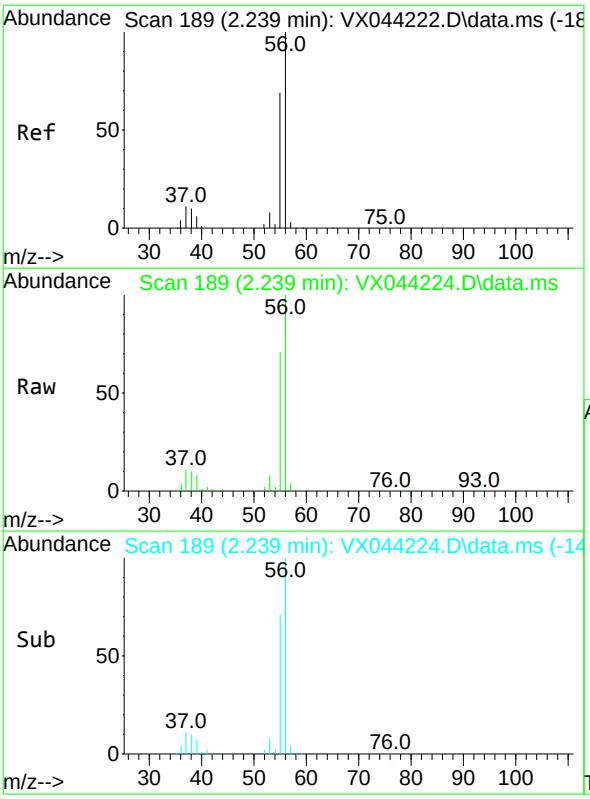


#12
1,1-Dichloroethene
Concen: 159.600 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 96 Resp: 211016

Ion	Ratio	Lower	Upper
96	100		
61	165.6	138.0	207.0
98	63.5	50.0	75.0

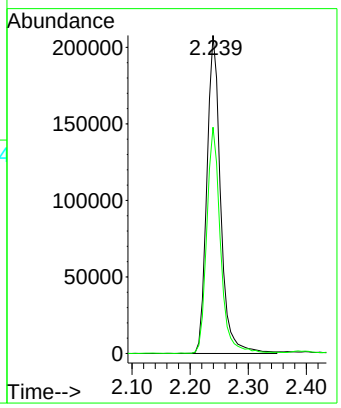




#13
Acrolein
Concen: 809.350 ug/l
RT: 2.239 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 56 Resp: 341487

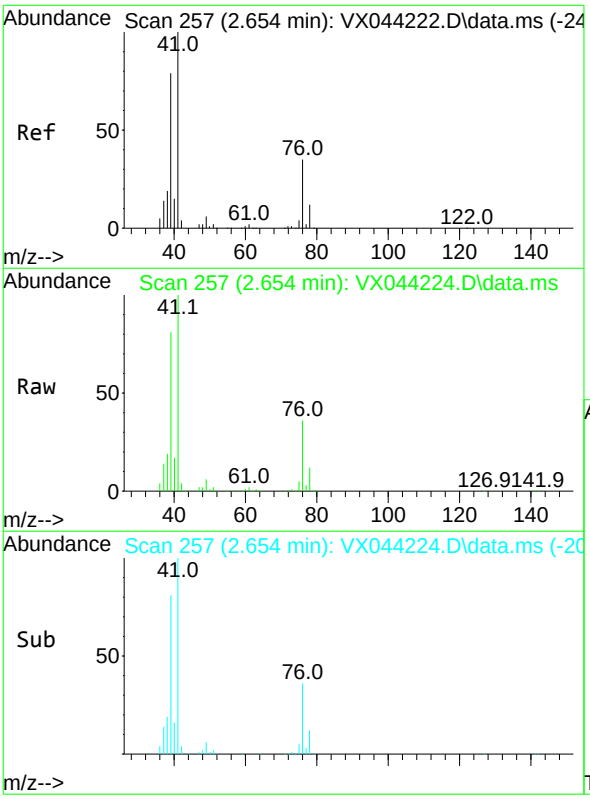
Ion	Ratio	Lower	Upper
56	100		
55	70.8	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

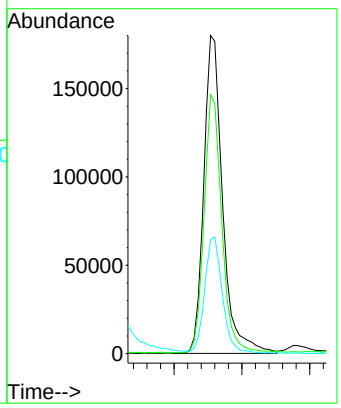
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

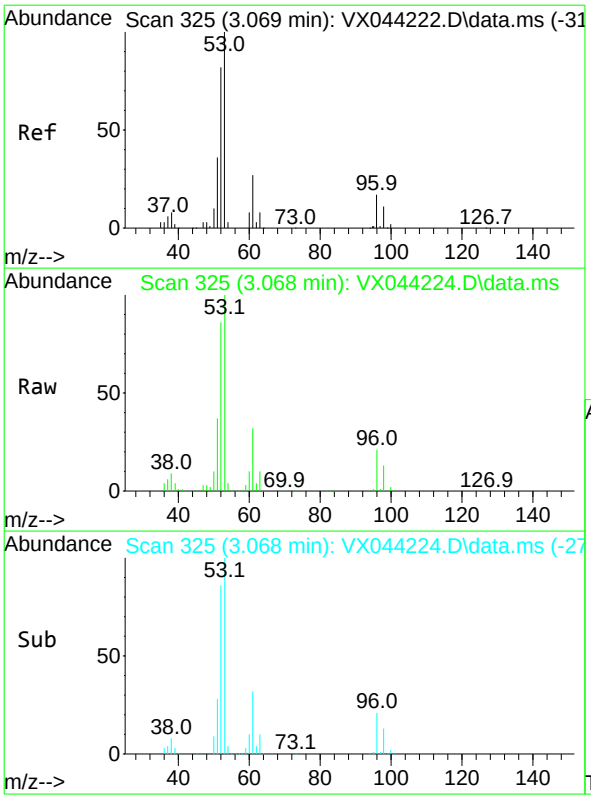


#14
Allyl chloride
Concen: 157.465 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 41 Resp: 346773

Ion	Ratio	Lower	Upper
41	100		
39	76.1	61.9	92.9
76	34.5	27.4	41.2

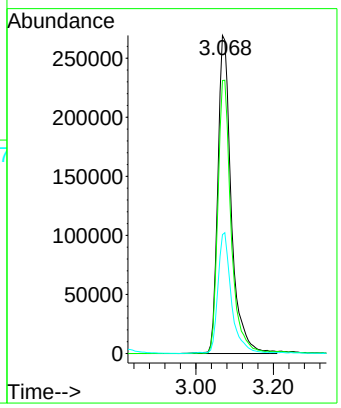




#15
Acrylonitrile
Concen: 804.774 ug/l
RT: 3.068 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 53 Resp: 649783

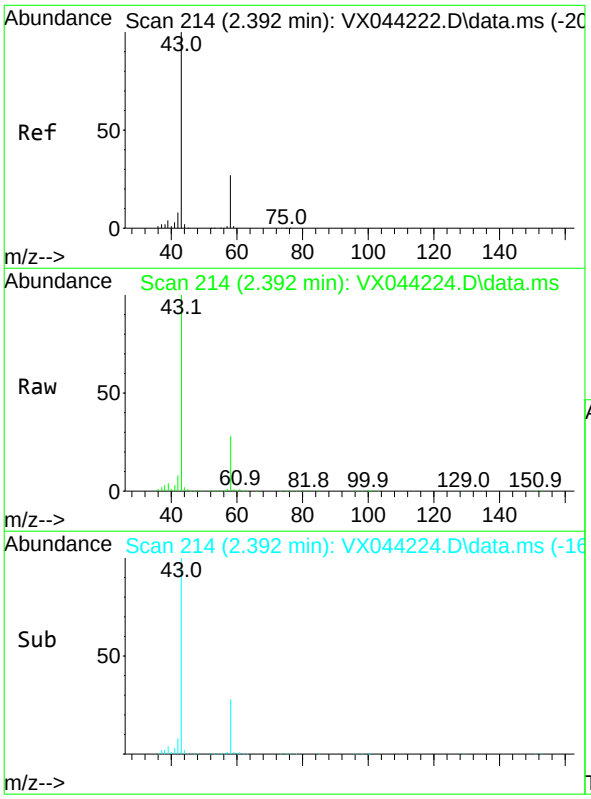
Ion	Ratio	Lower	Upper
53	100		
52	83.9	67.4	101.0
51	37.0	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

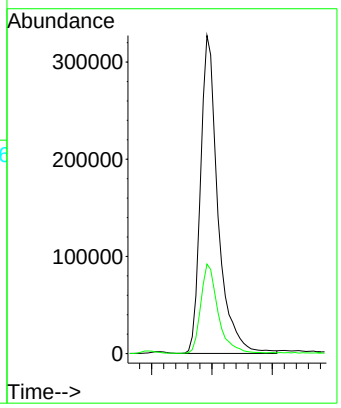
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

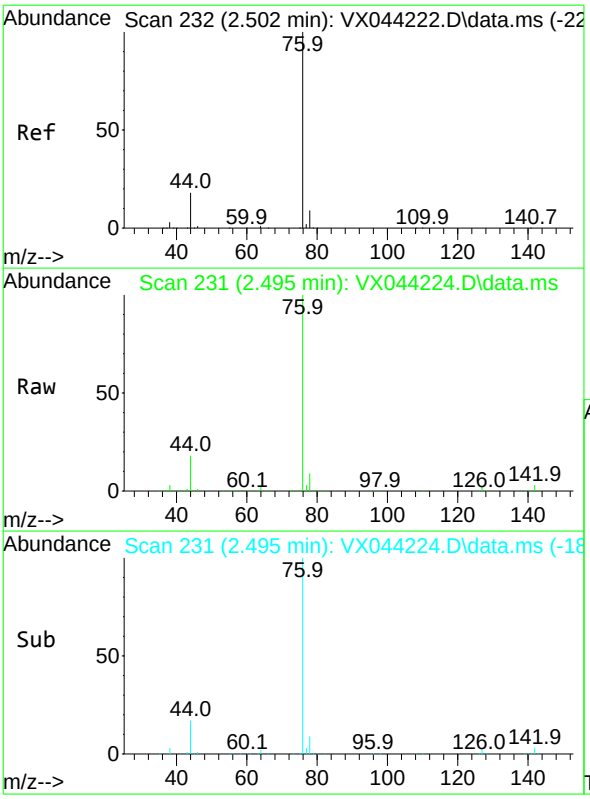


#16
Acetone
Concen: 780.537 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 658120

Ion	Ratio	Lower	Upper
43	100		
58	28.1	21.6	32.4

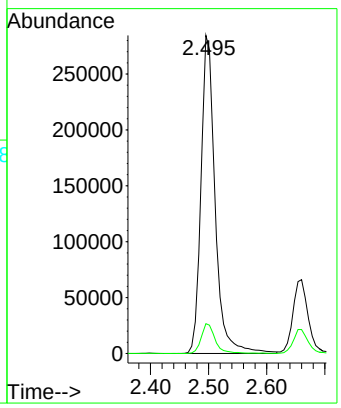




#17
Carbon Disulfide
Concen: 191.754 ug/l
RT: 2.495 min Scan# 23
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 76 Resp: 481926

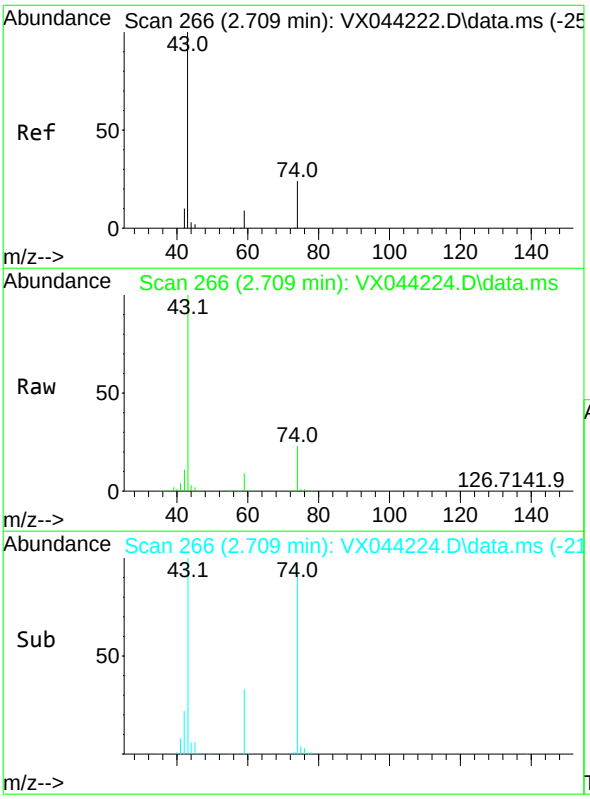
Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

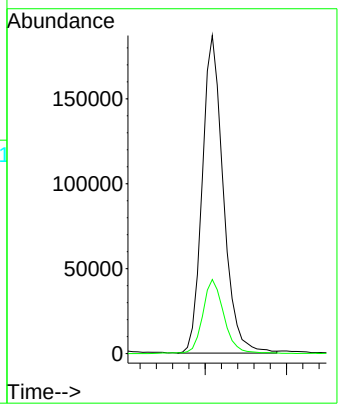
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

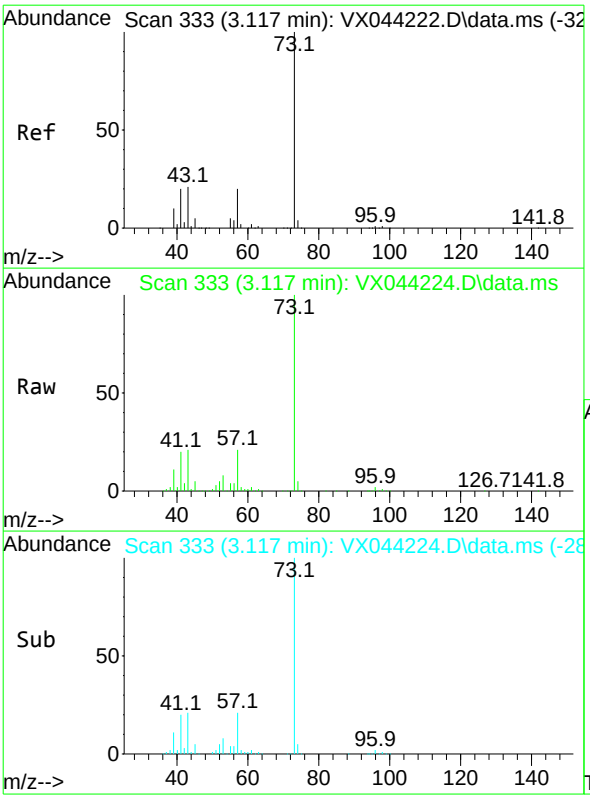


#18
Methyl Acetate
Concen: 154.792 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 336516

Ion	Ratio	Lower	Upper
43	100		
74	23.7	17.7	26.5

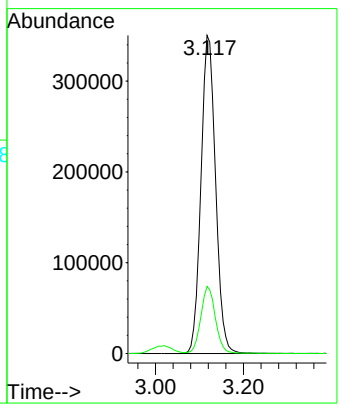




#19
Methyl tert-butyl Ether
Concen: 156.286 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 73 Resp: 806360

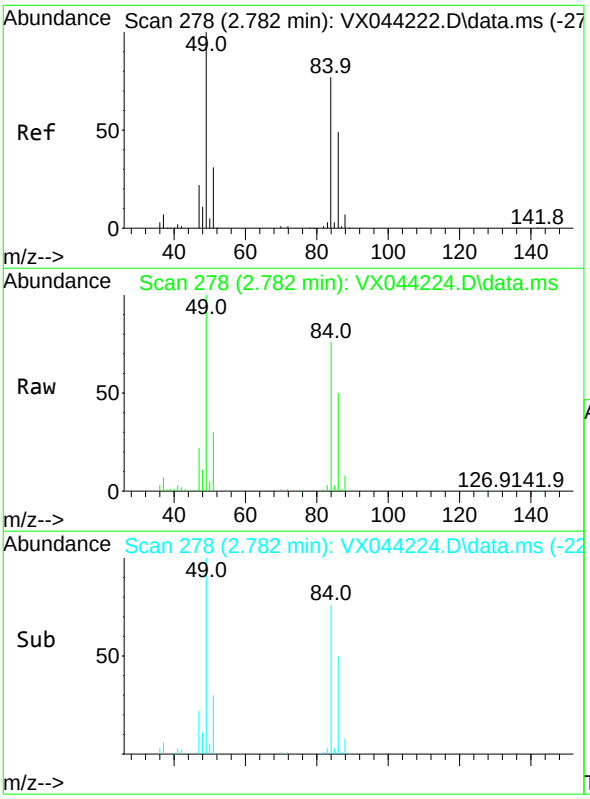
Ion	Ratio	Lower	Upper
73	100		
57	21.1	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

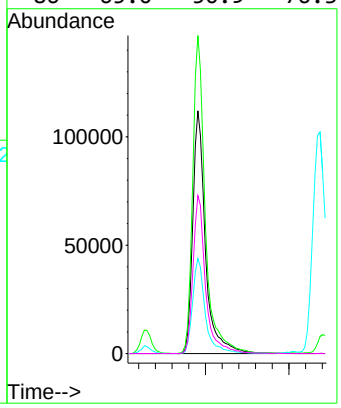
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

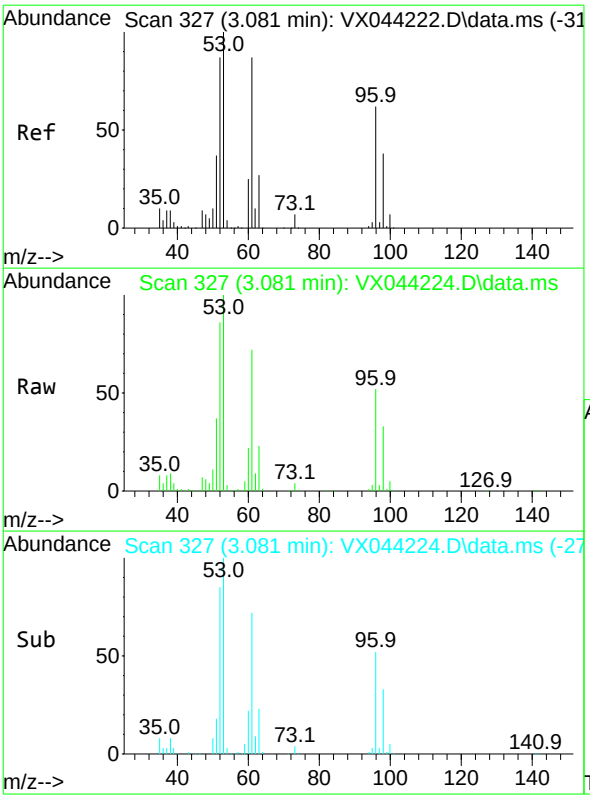


#20
Methylene Chloride
Concen: 149.282 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 84 Resp: 236412

Ion	Ratio	Lower	Upper
84	100		
49	130.9	104.2	156.4
51	39.1	32.2	48.4
86	65.0	50.9	76.3





#21
trans-1,2-Dichloroethene
Concen: 157.719 ug/l
RT: 3.081 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

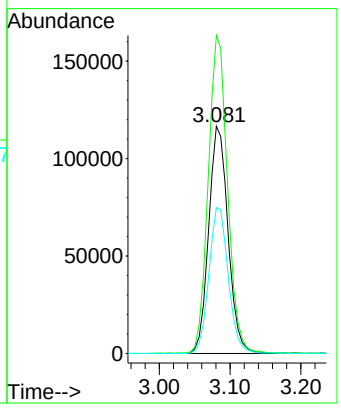
Tgt Ion: 96 Resp: 221622

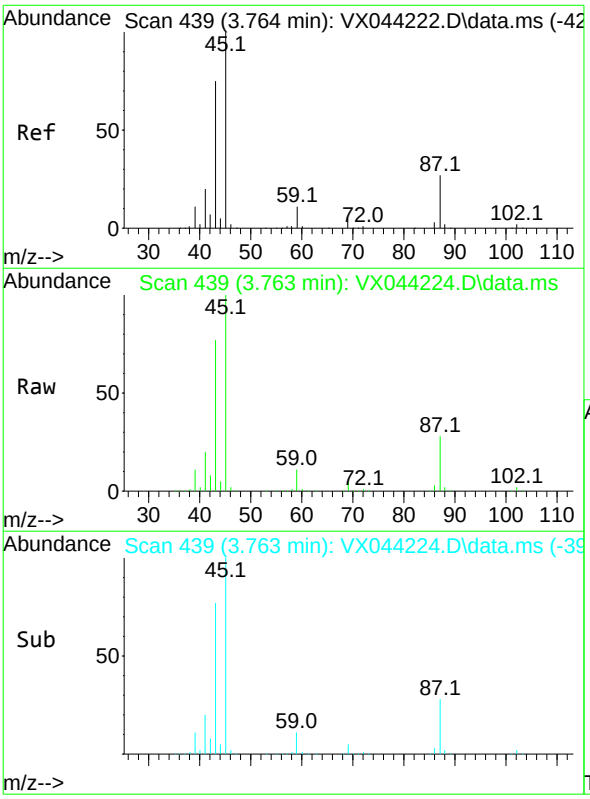
Ion	Ratio	Lower	Upper
96	100		
61	139.7	112.0	168.0
98	64.2	48.8	73.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

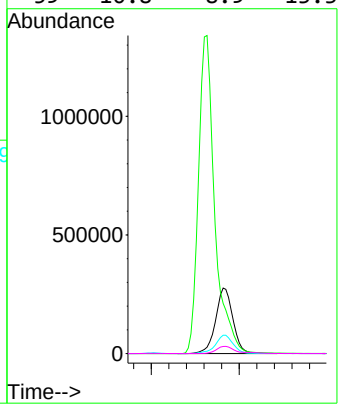


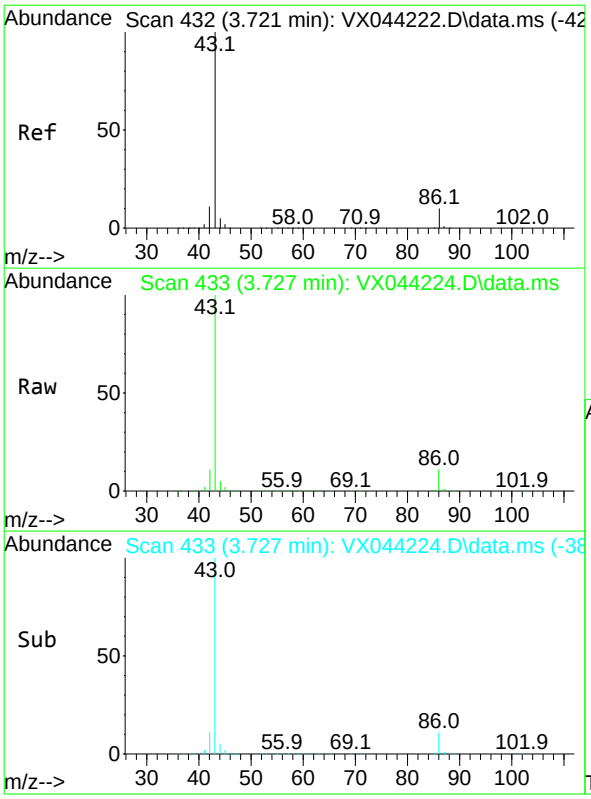


#22
Diisopropyl ether
Concen: 151.500 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 45 Resp: 751292

Ion	Ratio	Lower	Upper
45	100		
43	76.6	60.2	90.2
87	28.0	21.2	31.8
59	10.8	8.9	13.3





#23
Vinyl Acetate
Concen: 859.417 ug/l
RT: 3.727 min Scan# 43
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

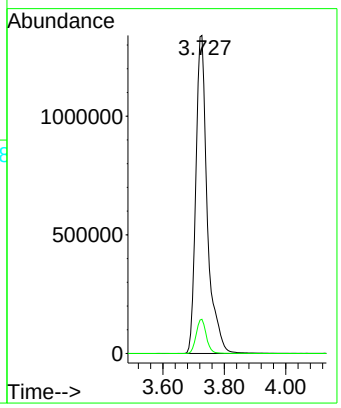
Tgt Ion: 43 Resp: 3464902

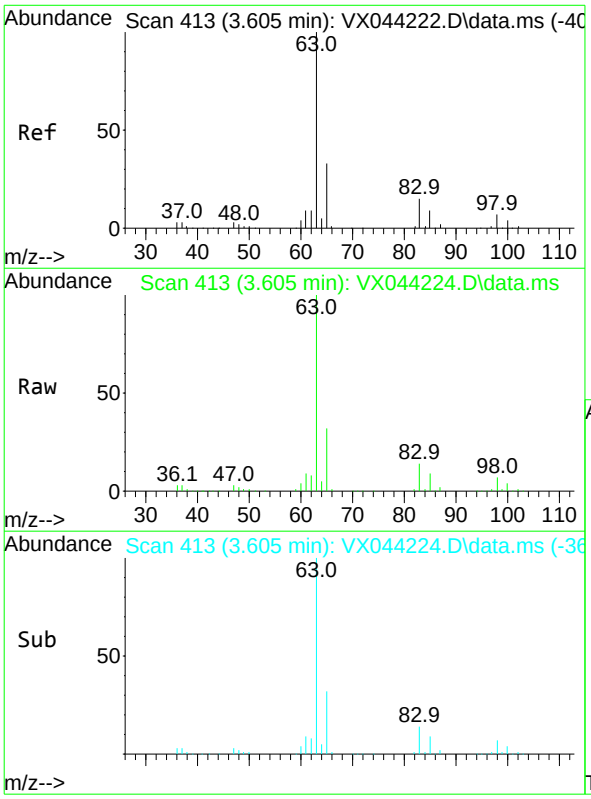
Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.2	12.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

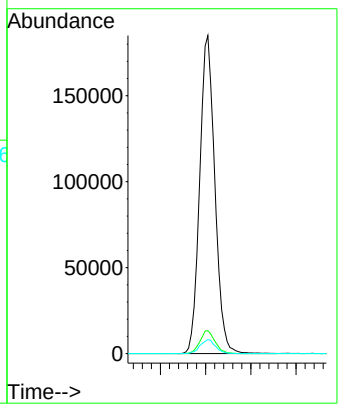


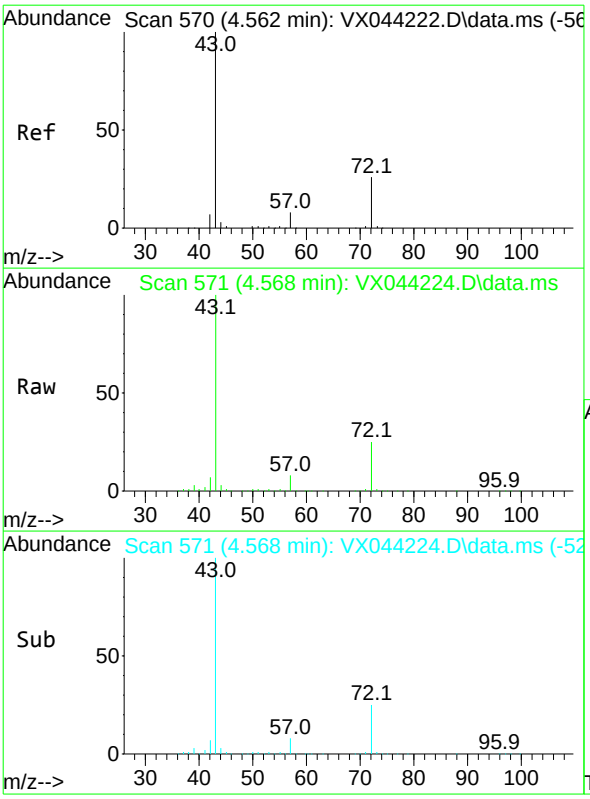


#24
1,1-Dichloroethane
Concen: 155.921 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 63 Resp: 431006

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	4.4	2.1	6.3

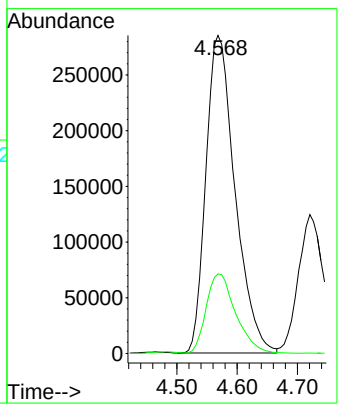




#25
2-Butanone
Concen: 798.973 ug/l
RT: 4.568 min Scan# 57
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 957709

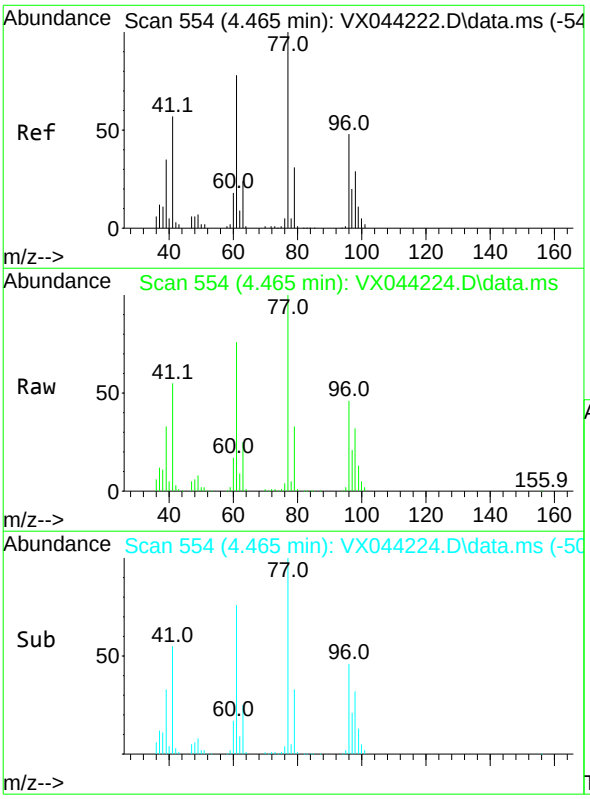
Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

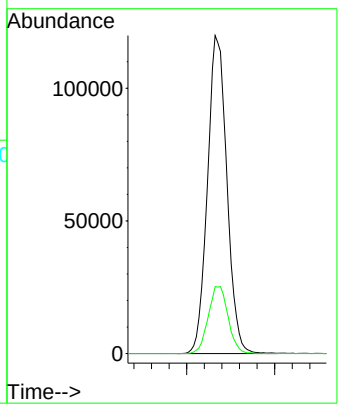
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

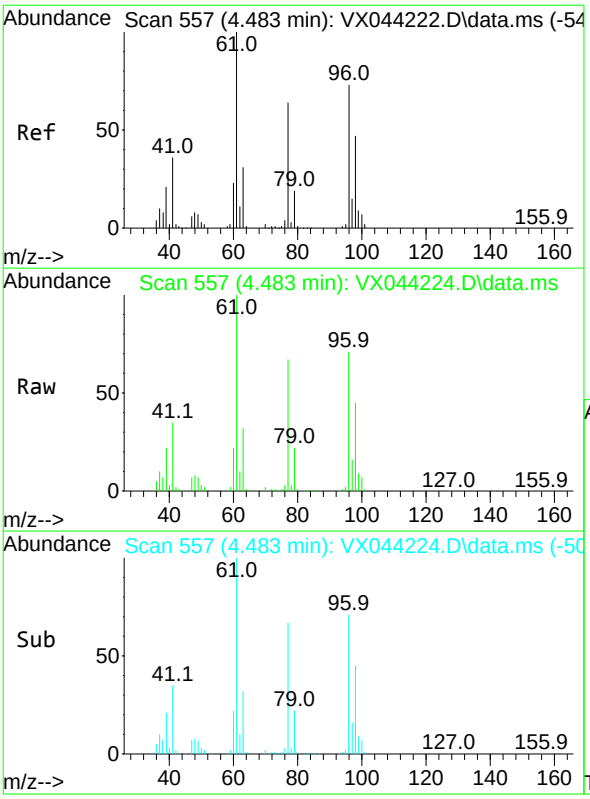


#26
2,2-Dichloropropane
Concen: 163.773 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 77 Resp: 367781

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.7	32.1

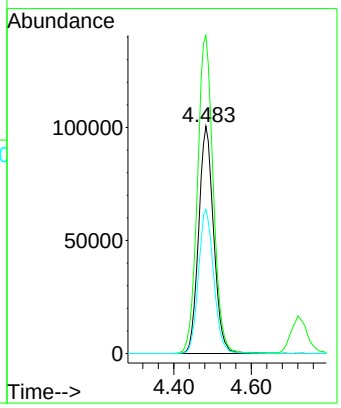




#27
cis-1,2-Dichloroethene
Concen: 151.131 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 96 Resp: 269708

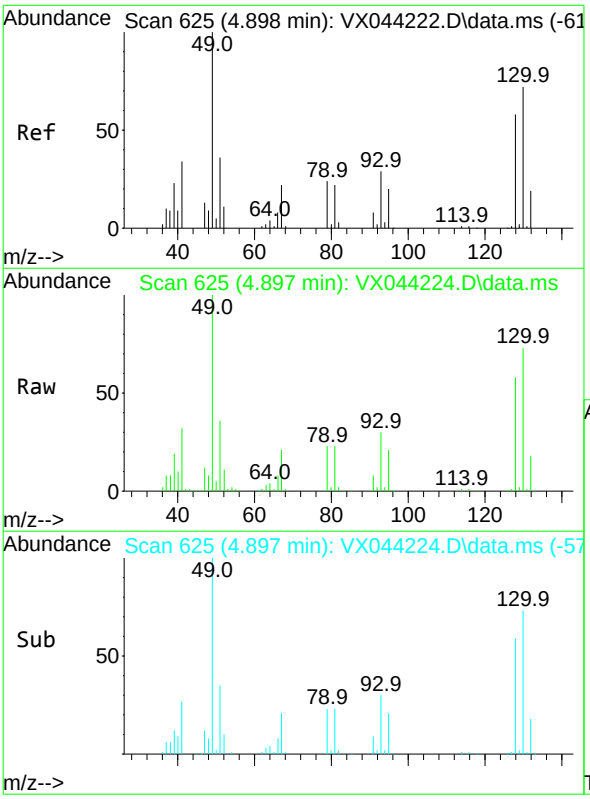
Ion	Ratio	Lower	Upper
96	100		
61	147.2	0.0	299.0
98	64.7	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

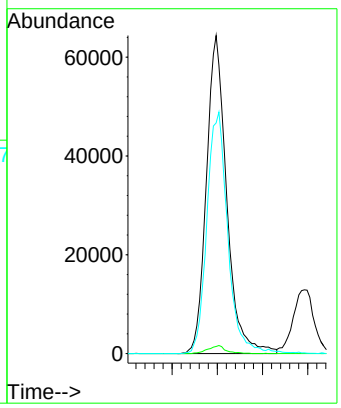
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

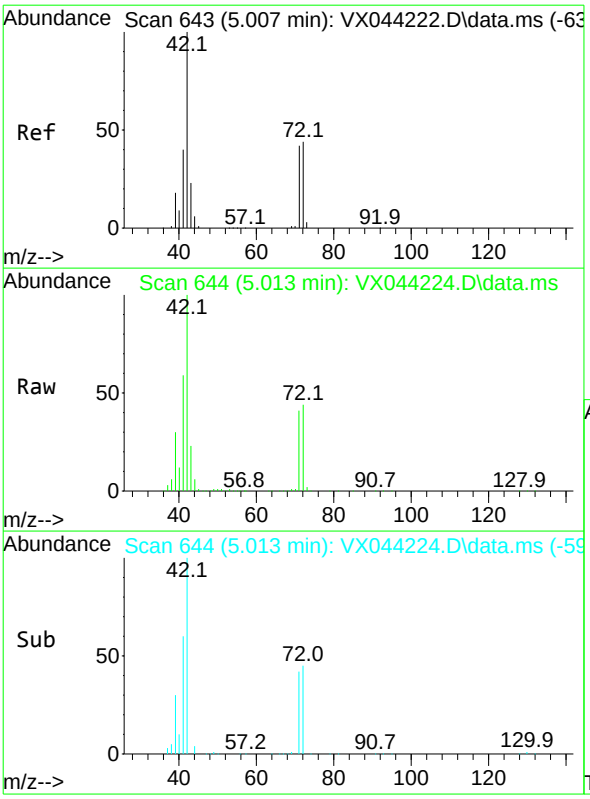


#28
Bromochloromethane
Concen: 148.269 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 49 Resp: 200978

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	77.2	62.1	93.1

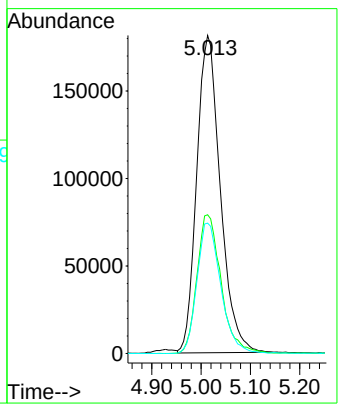




#29
Tetrahydrofuran
Concen: 782.561 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 42 Resp: 602095

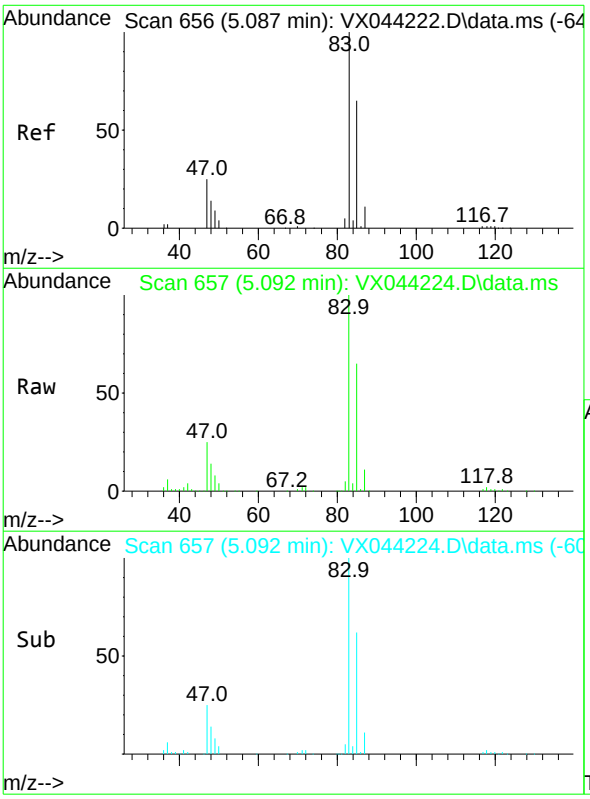
Ion	Ratio	Lower	Upper
42	100		
72	44.8	37.0	55.6
71	41.7	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

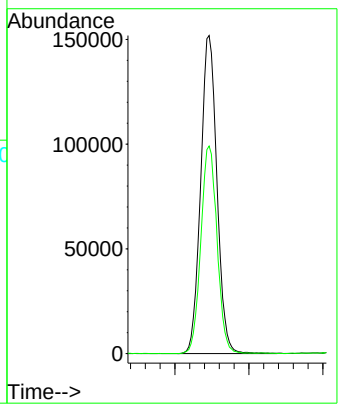
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

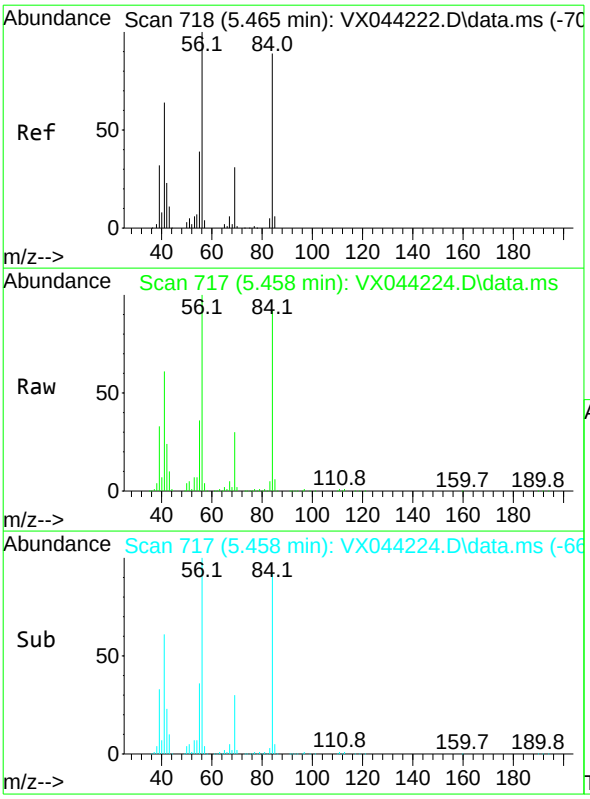


#30
Chloroform
Concen: 149.274 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 83 Resp: 463606

Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.6	77.4





#31
Cyclohexane
Concen: 148.745 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

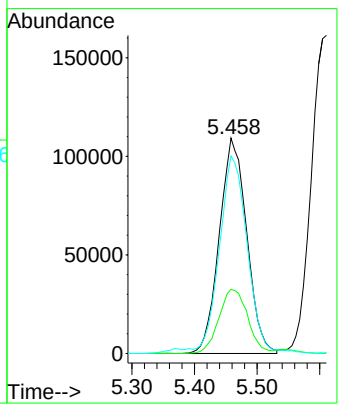
Tgt Ion: 56 Resp: 332026

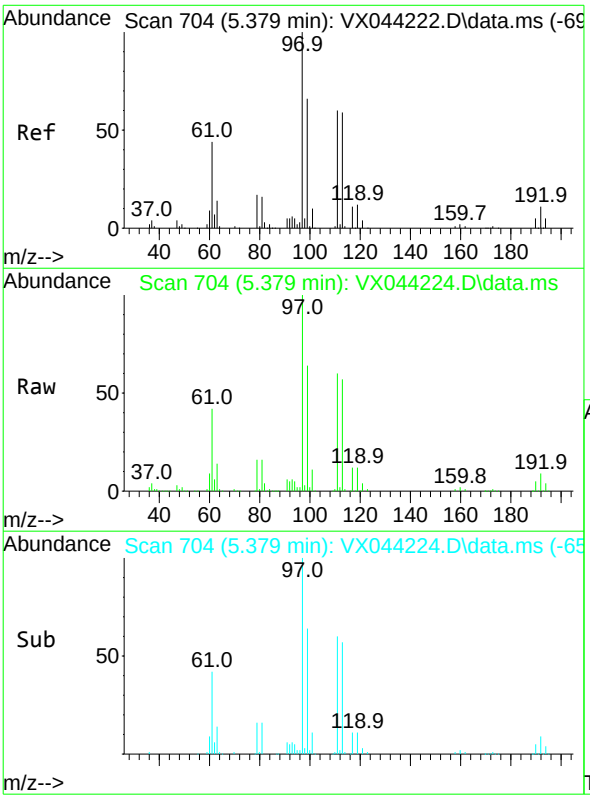
Ion	Ratio	Lower	Upper
56	100		
69	29.8	24.7	37.1
84	90.1	71.0	106.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

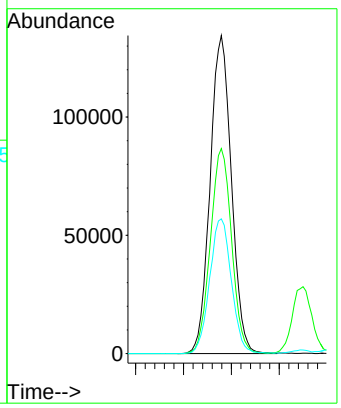


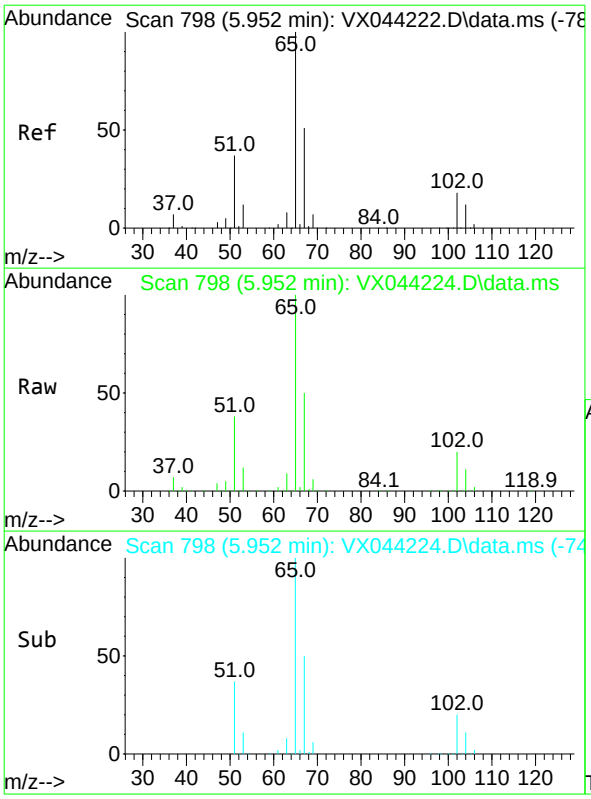


#32
1,1,1-Trichloroethane
Concen: 161.073 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 97 Resp: 415253

Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.8	76.2
61	43.2	35.2	52.8

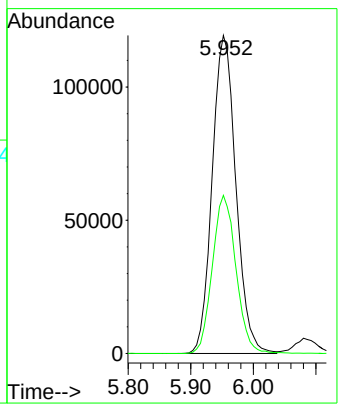




#33
1,2-Dichloroethane-d4
Concen: 151.956 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 65 Resp: 314272

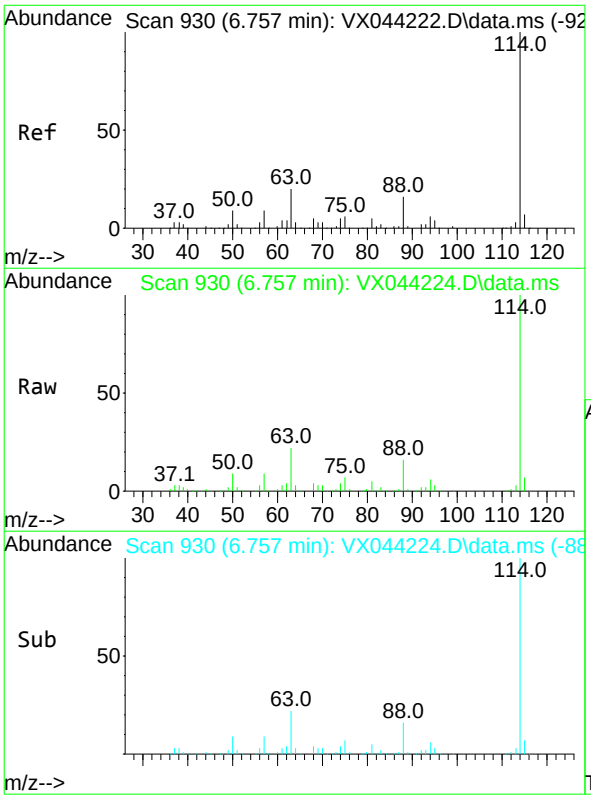
Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

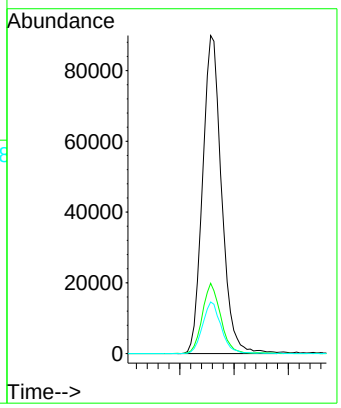
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

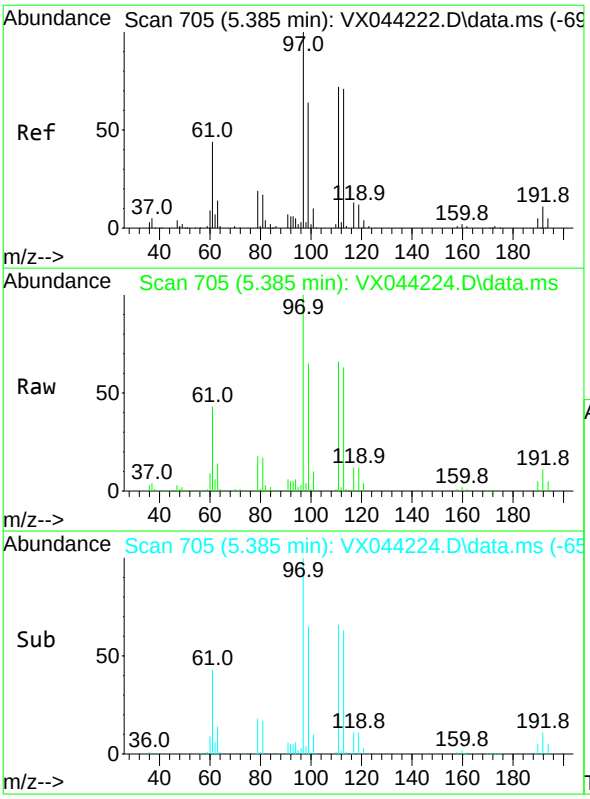


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:114 Resp: 218610

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	40.6
88	16.2	0.0	31.8

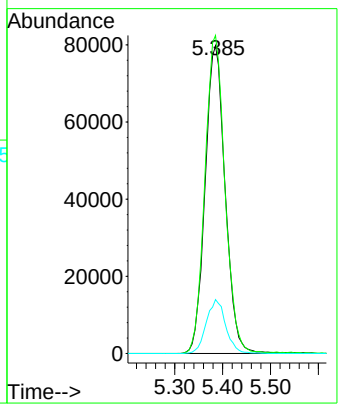




#35
Dibromofluoromethane
Concen: 153.188 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:113 Resp: 231937

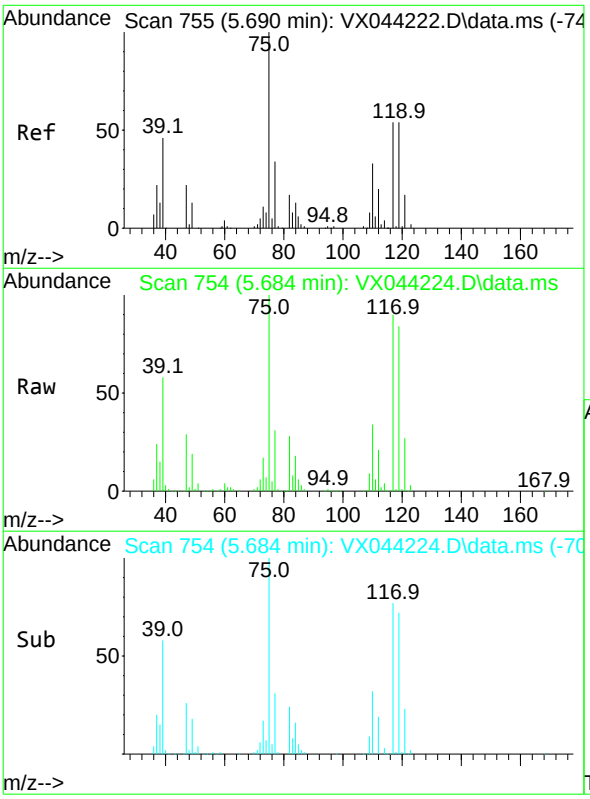
Ion	Ratio	Lower	Upper
113	100		
111	103.1	80.4	120.6
192	17.0	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

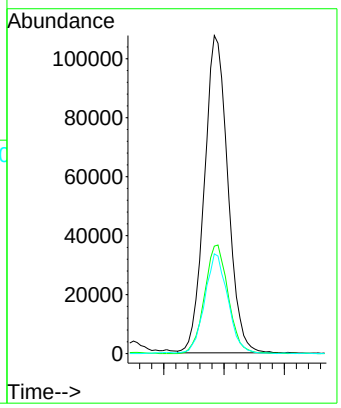
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

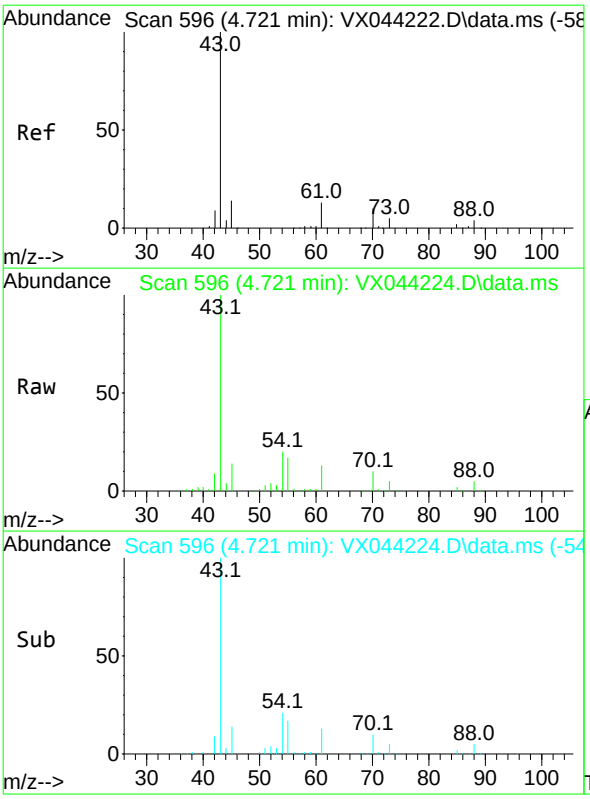


#36
1,1-Dichloropropene
Concen: 148.642 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 290913

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.3	51.7
77	31.1	25.4	38.0

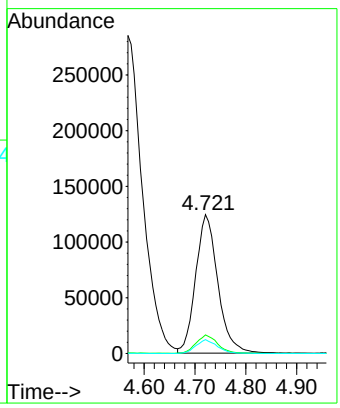




#37
Ethyl Acetate
Concen: 155.731 ug/l
RT: 4.721 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 376757

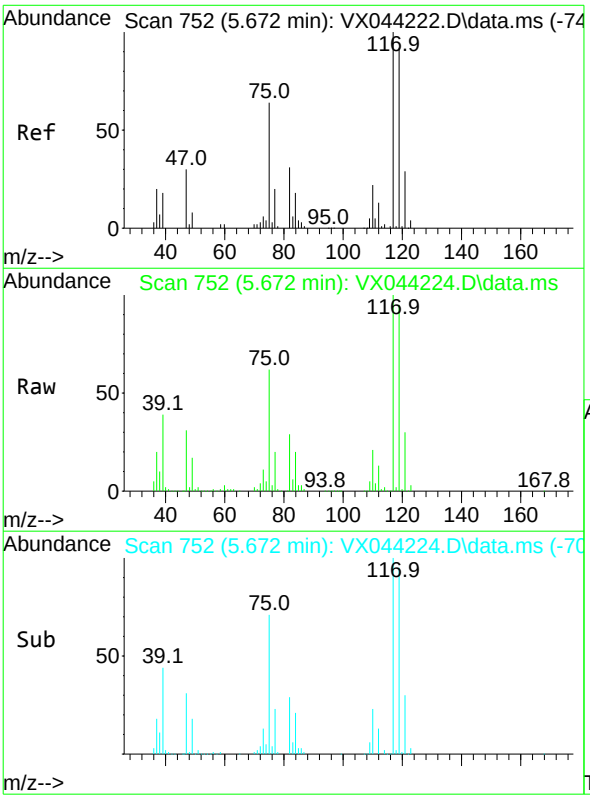
Ion	Ratio	Lower	Upper
43	100		
61	13.2	9.8	14.8
70	9.6	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

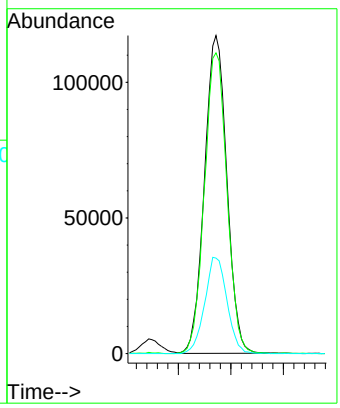
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

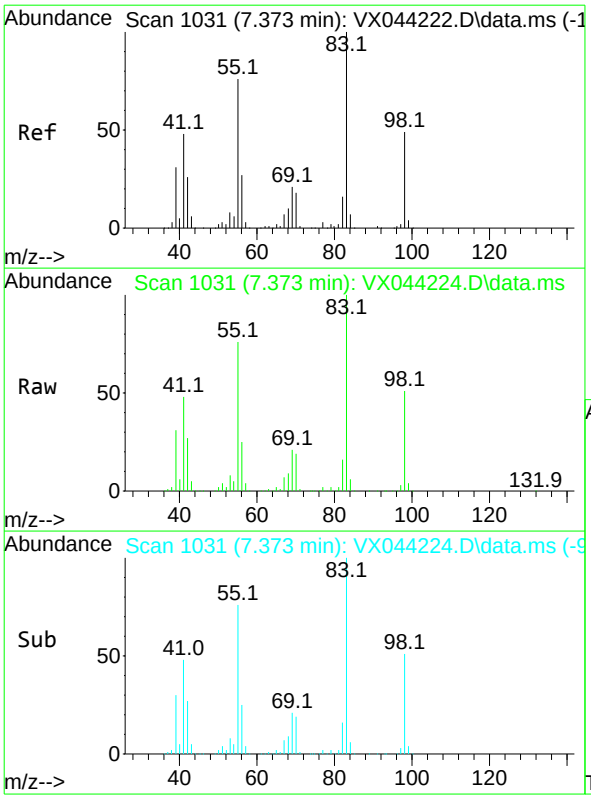


#38
Carbon Tetrachloride
Concen: 164.587 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:117 Resp: 346795

Ion	Ratio	Lower	Upper
117	100		
119	94.6	74.2	111.4
121	30.1	23.0	34.6





#39
Methylcyclohexane
Concen: 157.516 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

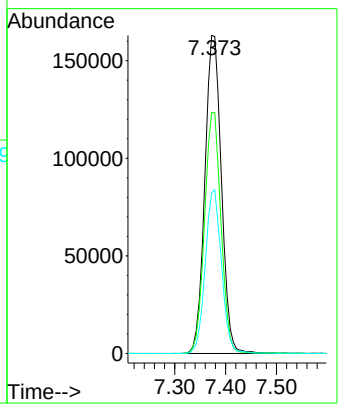
Tgt Ion: 83 Resp: 368542

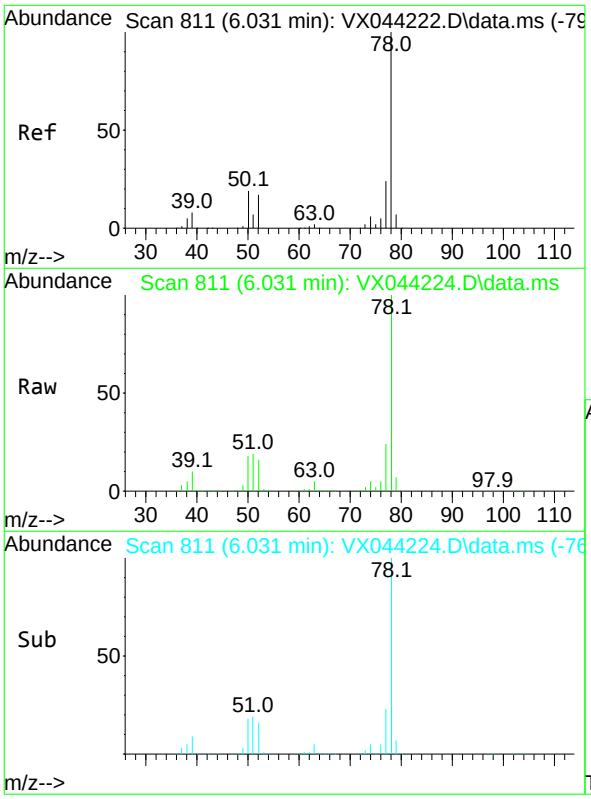
Ion	Ratio	Lower	Upper
83	100		
55	75.8	60.7	91.1
98	50.5	38.9	58.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

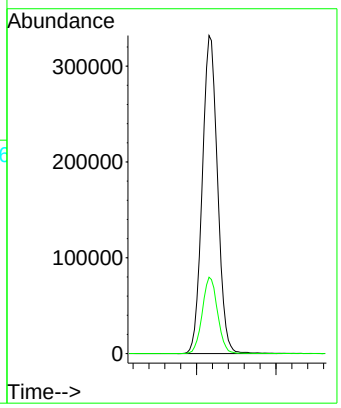


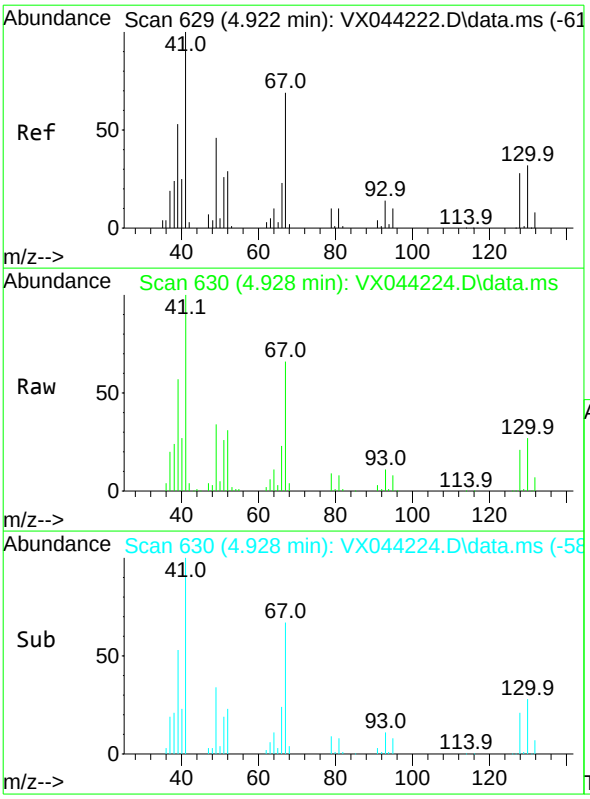


#40
Benzene
Concen: 149.340 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 78 Resp: 887413

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.3	28.9

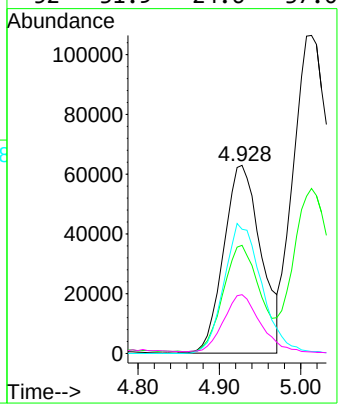




#41
Methacrylonitrile
Concen: 155.569 ug/l
RT: 4.928 min Scan# 63
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 41 Resp: 199851

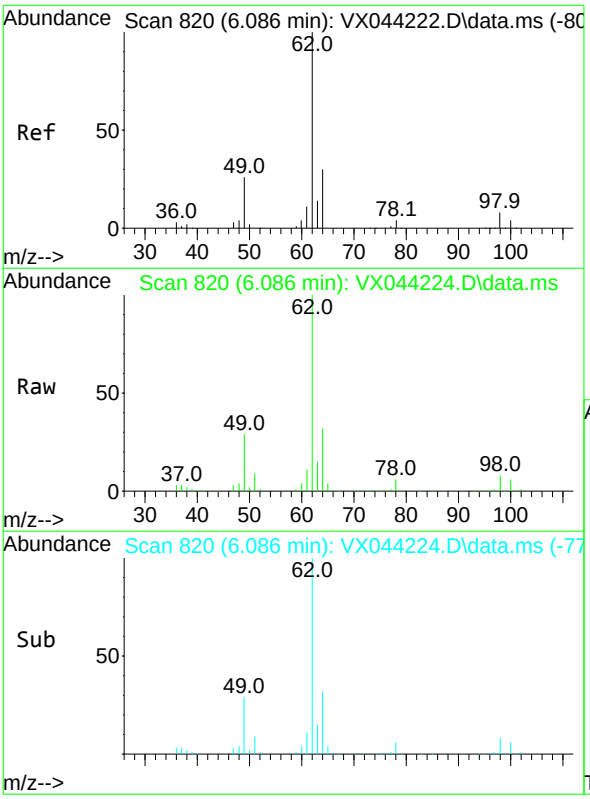
Ion	Ratio	Lower	Upper
41	100		
39	54.5	44.2	66.4
67	70.2	57.2	85.8
52	31.9	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

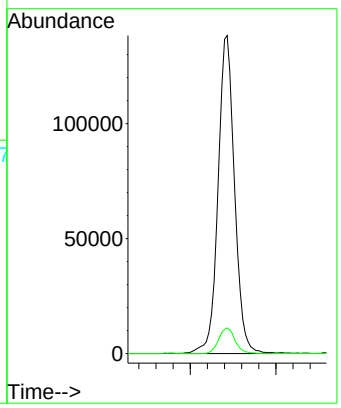
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

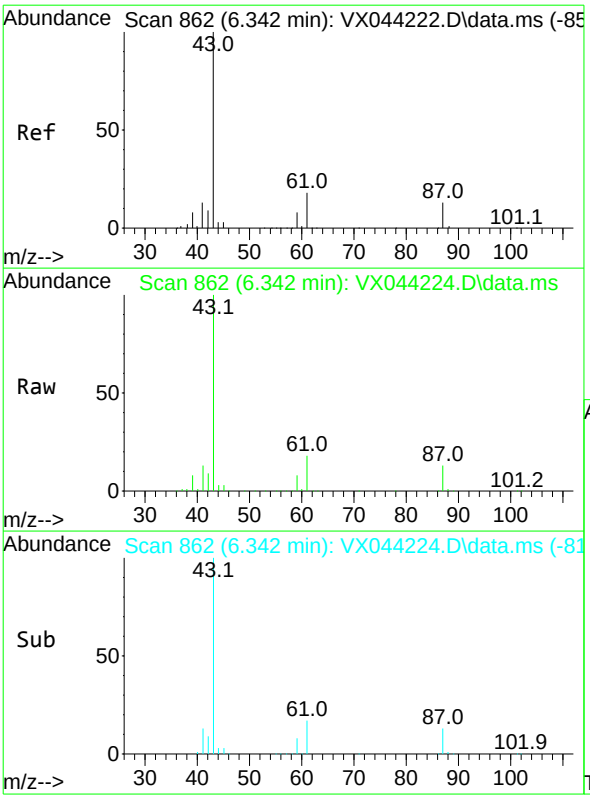


#42
1,2-Dichloroethane
Concen: 151.105 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 62 Resp: 369874

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	15.8





#43
Isopropyl Acetate
Concen: 163.200 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

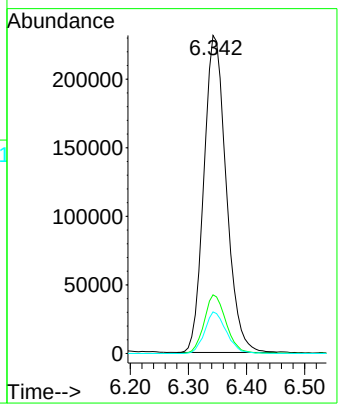
Tgt Ion: 43 Resp: 617107

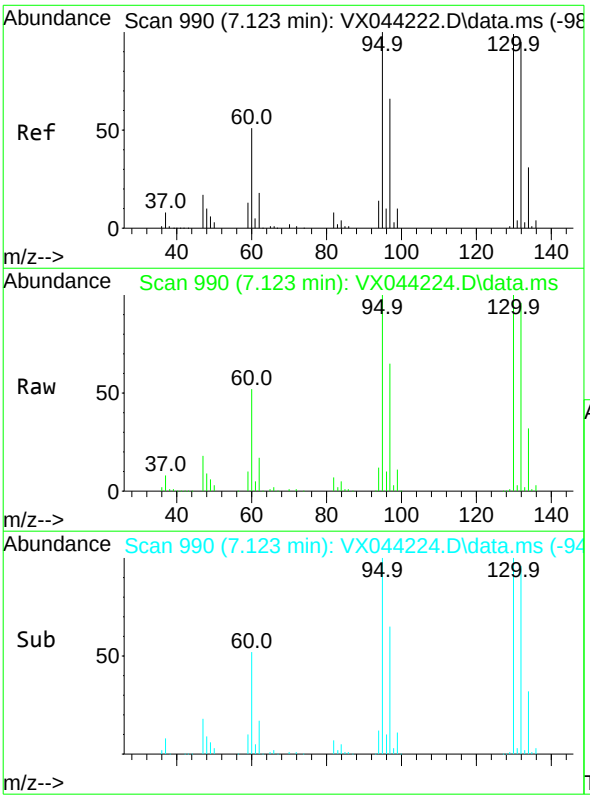
Ion	Ratio	Lower	Upper
43	100		
61	18.2	14.2	21.2
87	12.8	10.2	15.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

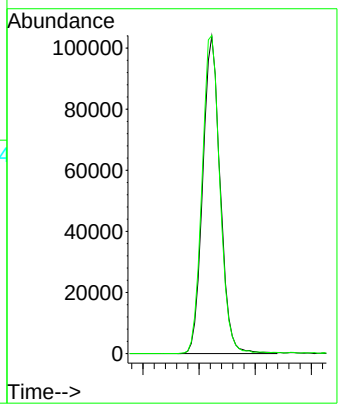


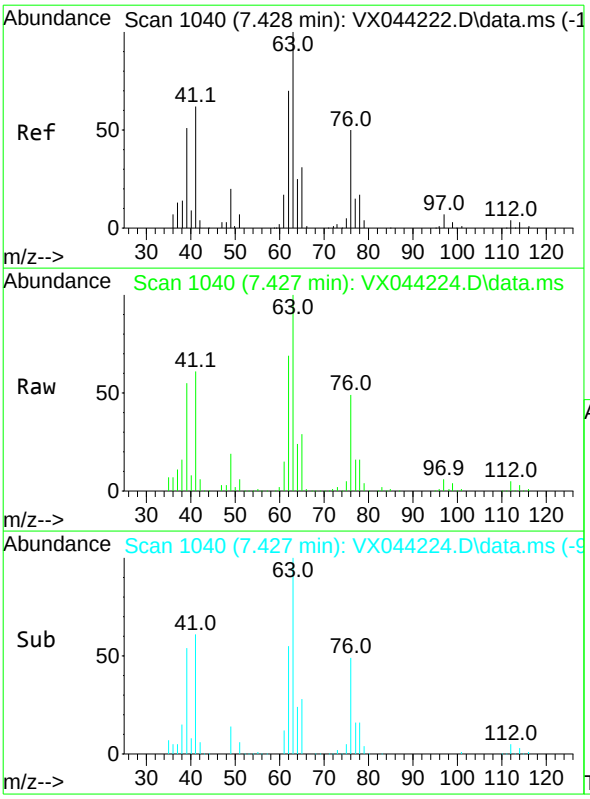


#44
Trichloroethene
Concen: 151.275 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:130 Resp: 224164

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	201.4

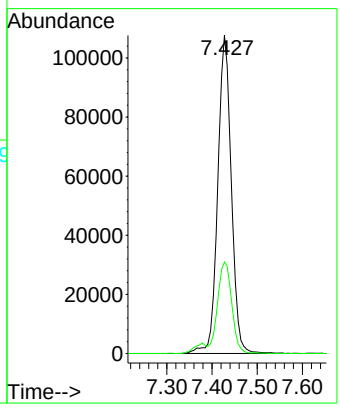




#45
1,2-Dichloropropane
Concen: 147.697 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 63 Resp: 224224

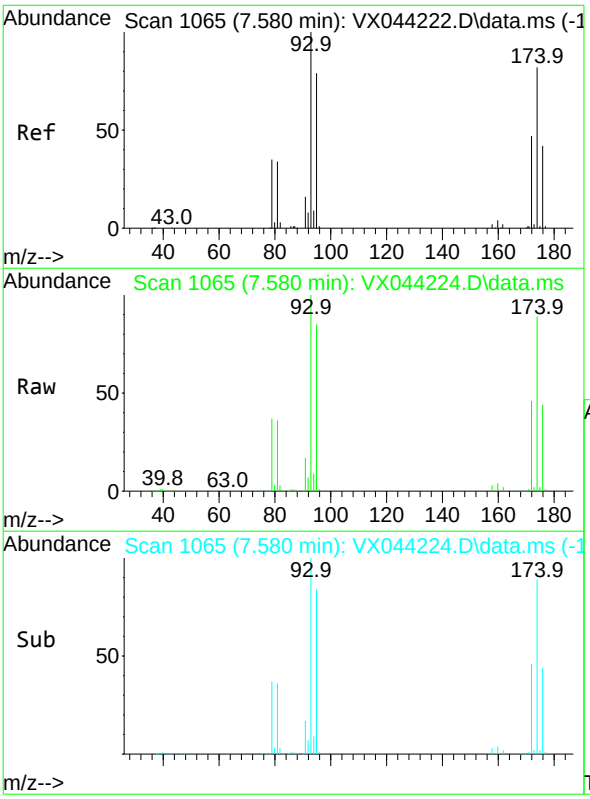
Ion	Ratio	Lower	Upper
63	100		
65	28.8	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

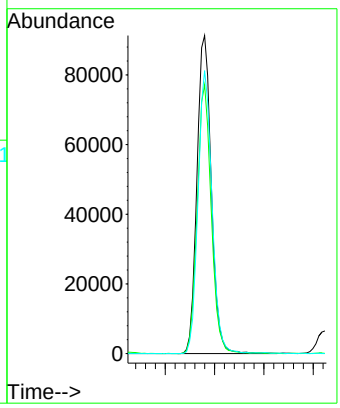
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

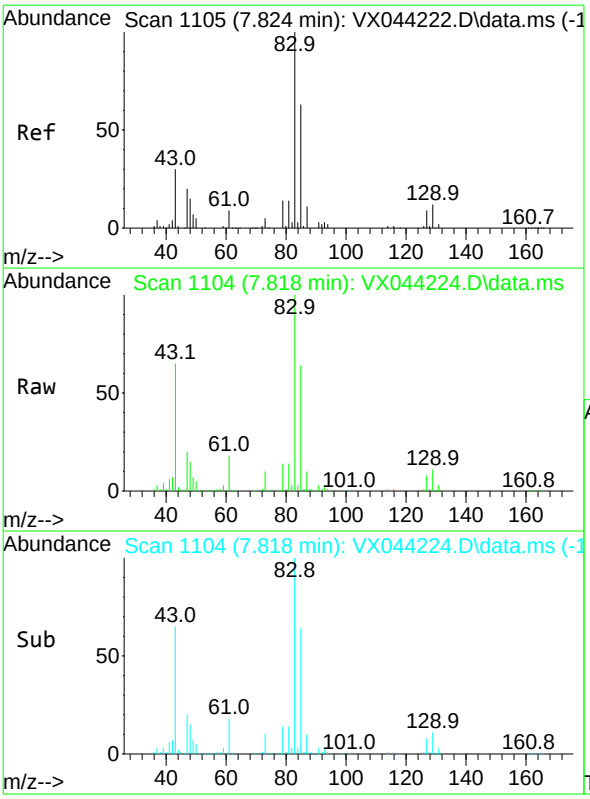


#46
Dibromomethane
Concen: 156.728 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 93 Resp: 184590

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.4	98.2
174	86.7	67.9	101.9

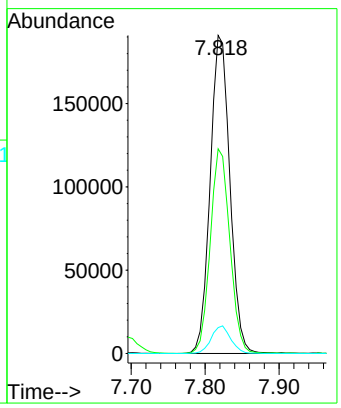




#47
Bromodichloromethane
Concen: 173.496 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 83 Resp: 352904

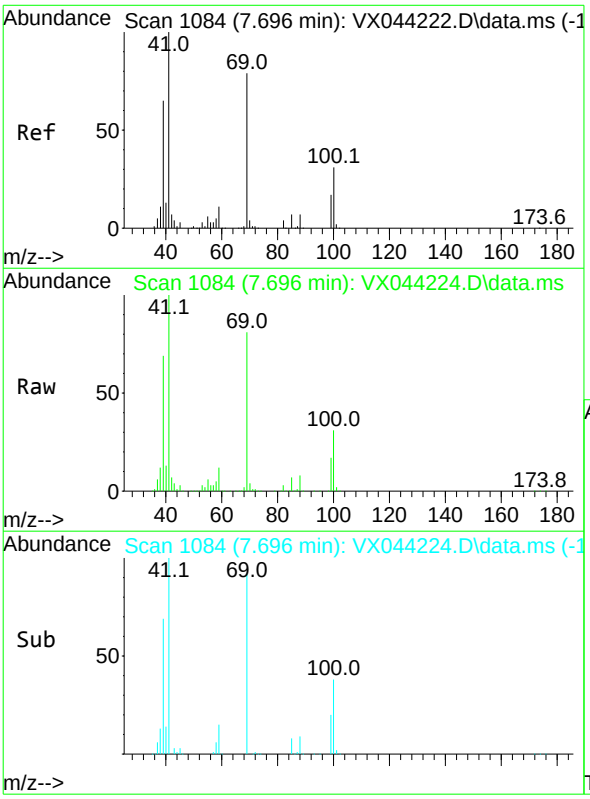
Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.6	75.8
127	8.1	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

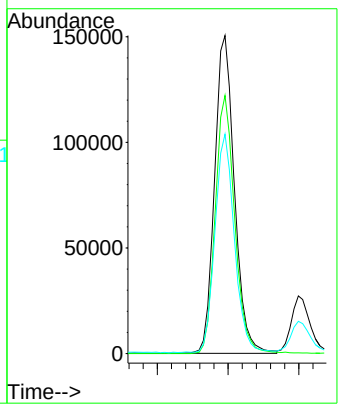
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

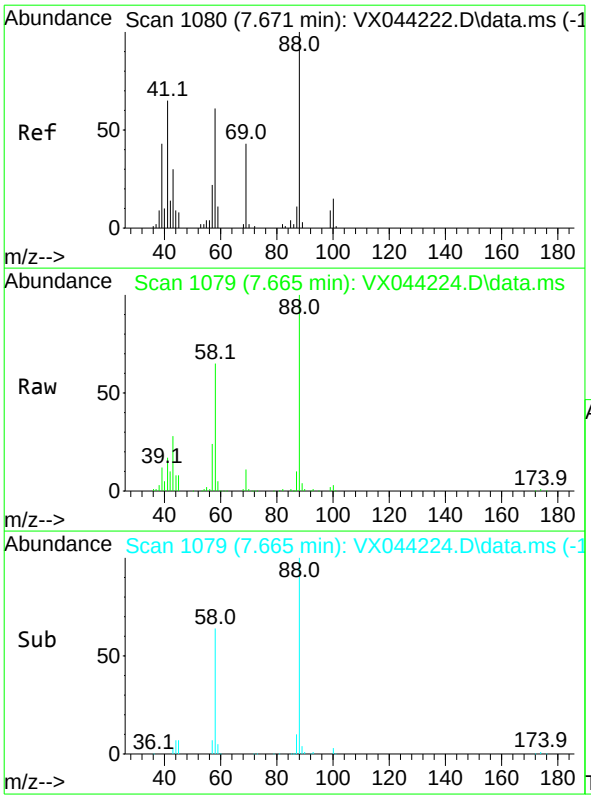


#48
Methyl methacrylate
Concen: 159.567 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 41 Resp: 292890

Ion	Ratio	Lower	Upper
41	100		
69	80.0	62.4	93.6
39	67.8	53.3	79.9

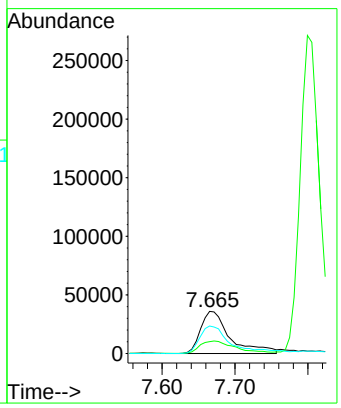




#49
1,4-Dioxane
Concen: 3221.248 ug/l m
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 88 Resp: 101048

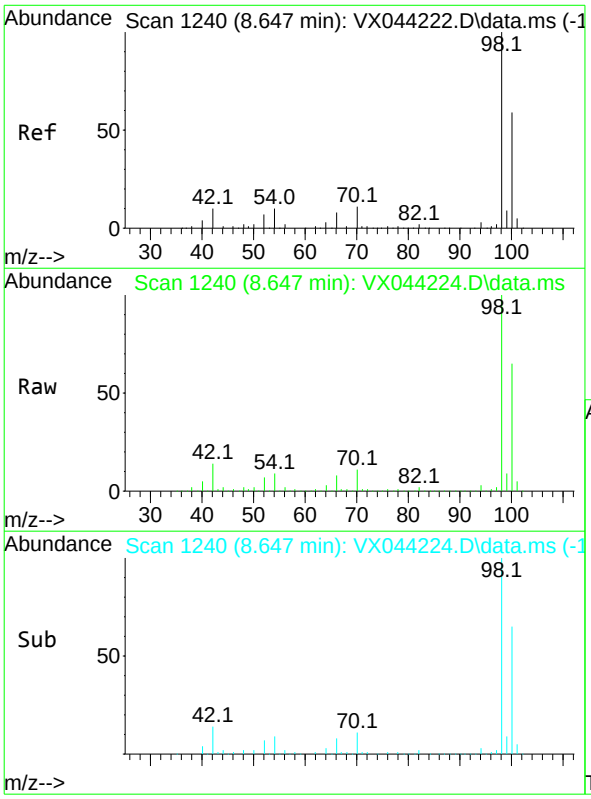
Ion	Ratio	Lower	Upper
88	100		
43	35.1	27.1	40.7
58	69.6	41.0	61.4#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

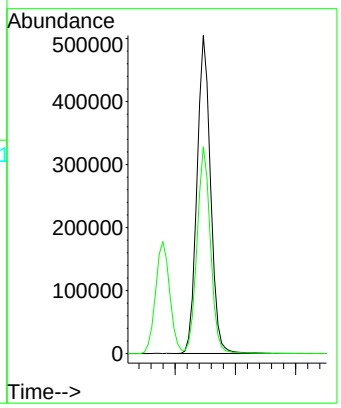
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

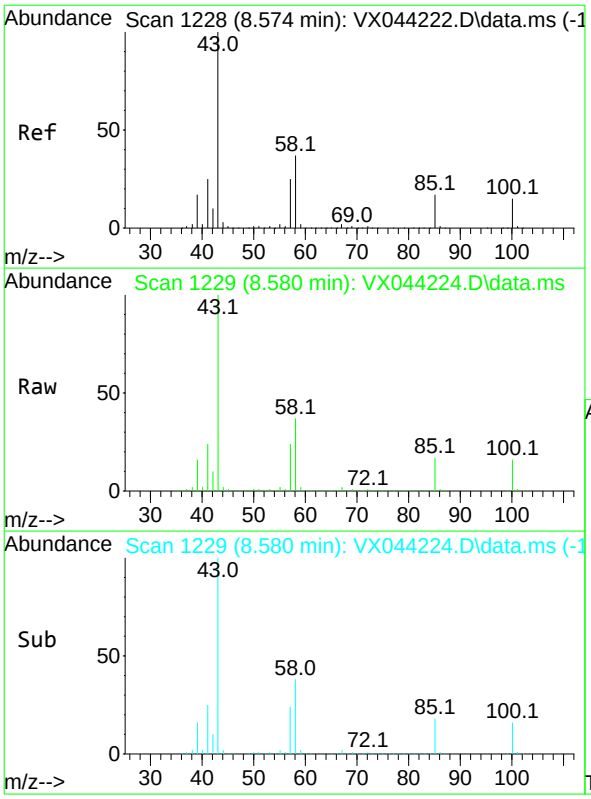


#50
Toluene-d8
Concen: 154.438 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 98 Resp: 788876

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.5	77.3

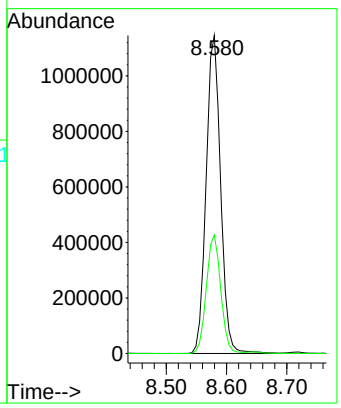




#51
4-Methyl-2-Pentanone
Concen: 784.573 ug/l
RT: 8.580 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 1907523

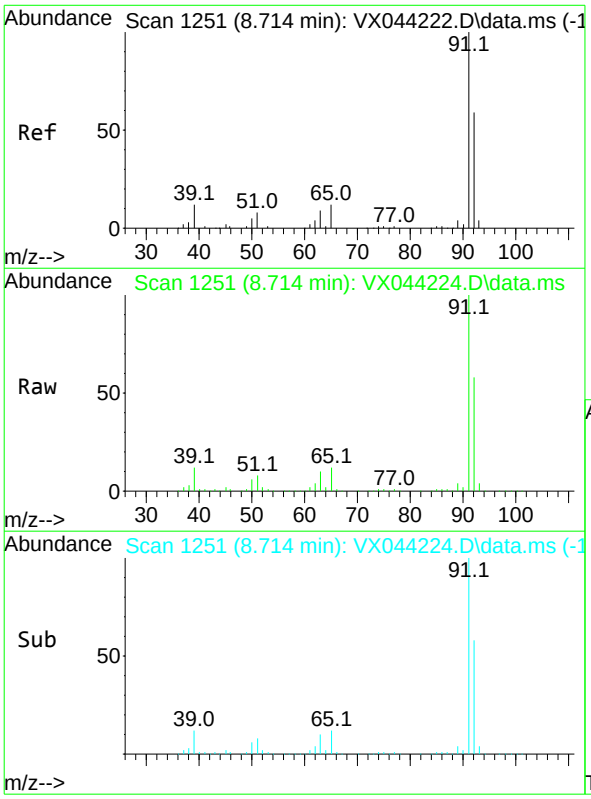
Ion	Ratio	Lower	Upper
43	100		
58	37.1	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

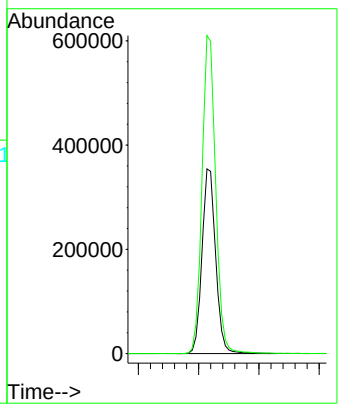
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

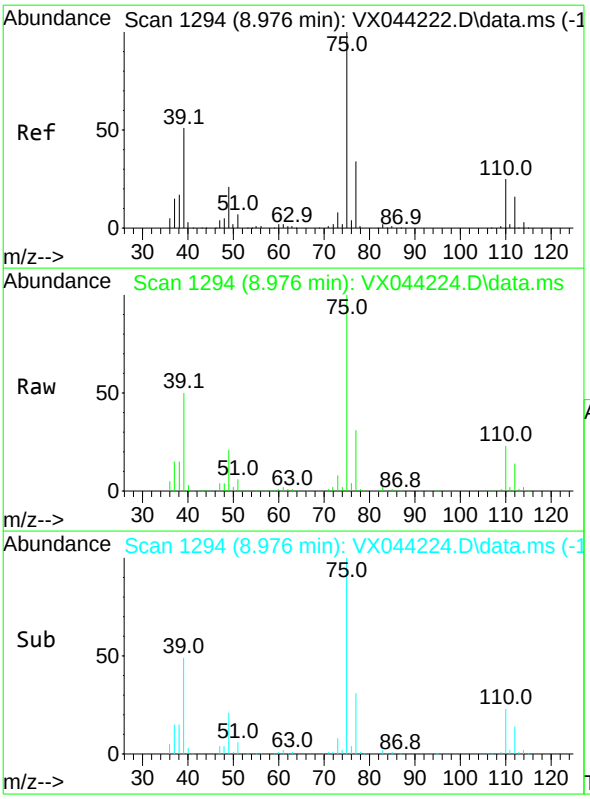


#52
Toluene
Concen: 149.294 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 92 Resp: 557102

Ion	Ratio	Lower	Upper
92	100		
91	172.4	137.0	205.6

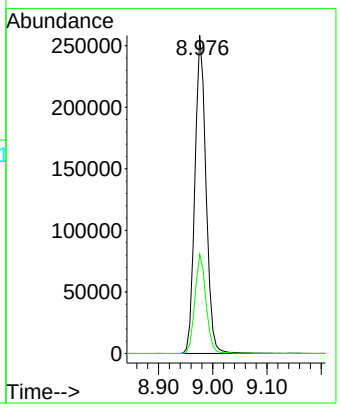




#53
t-1,3-Dichloropropene
Concen: 150.167 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 366275

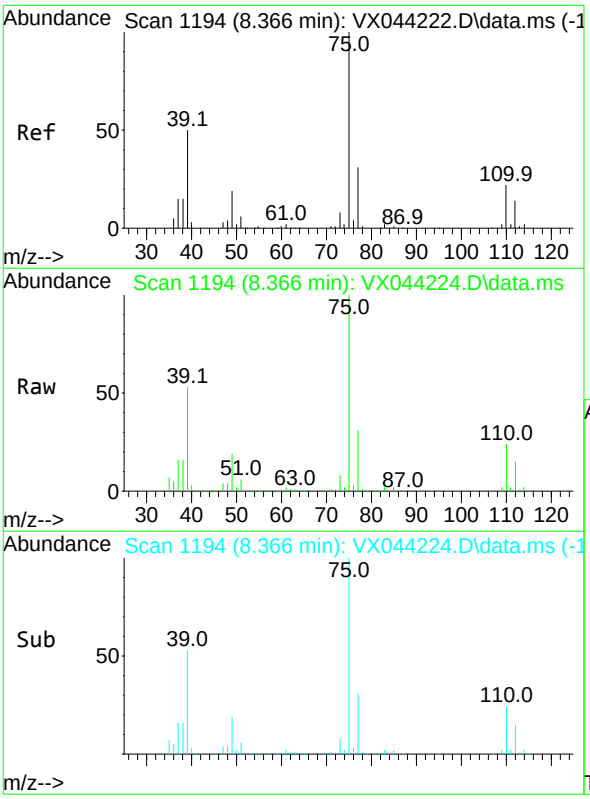
Ion	Ratio	Lower	Upper
75	100		
77	31.1	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

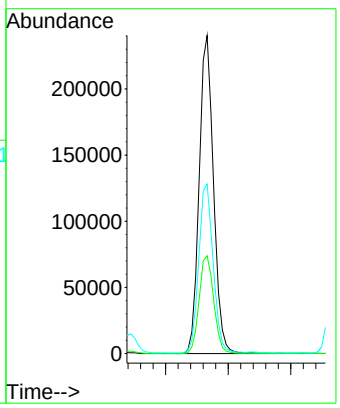
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

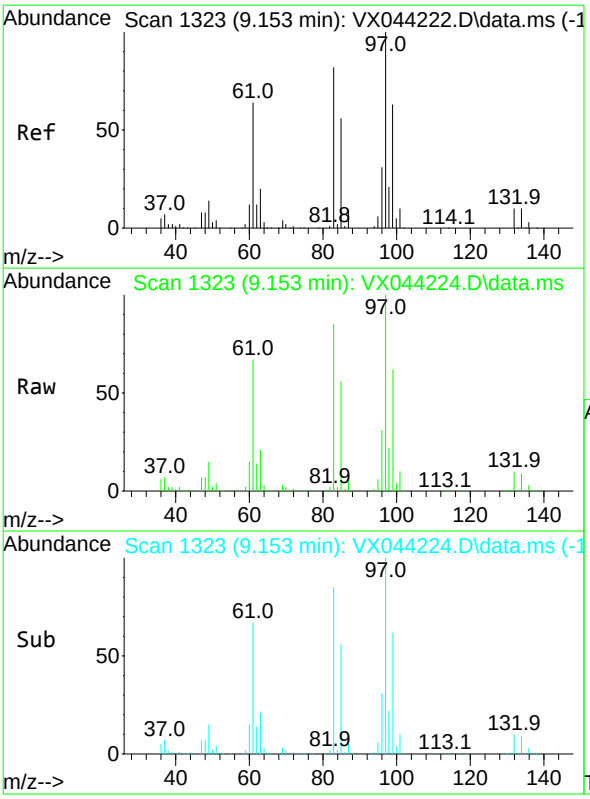


#54
cis-1,3-Dichloropropene
Concen: 172.581 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 382226

Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.7	37.1
39	53.1	40.3	60.5

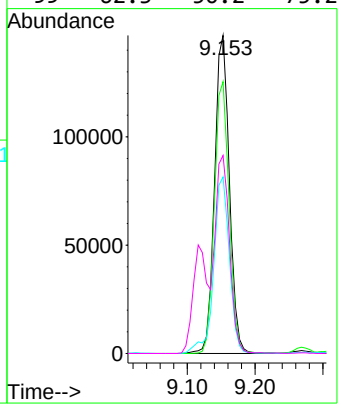




#55
1,1,2-Trichloroethane
Concen: 150.202 ug/l
RT: 9.153 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 97 Resp: 222665

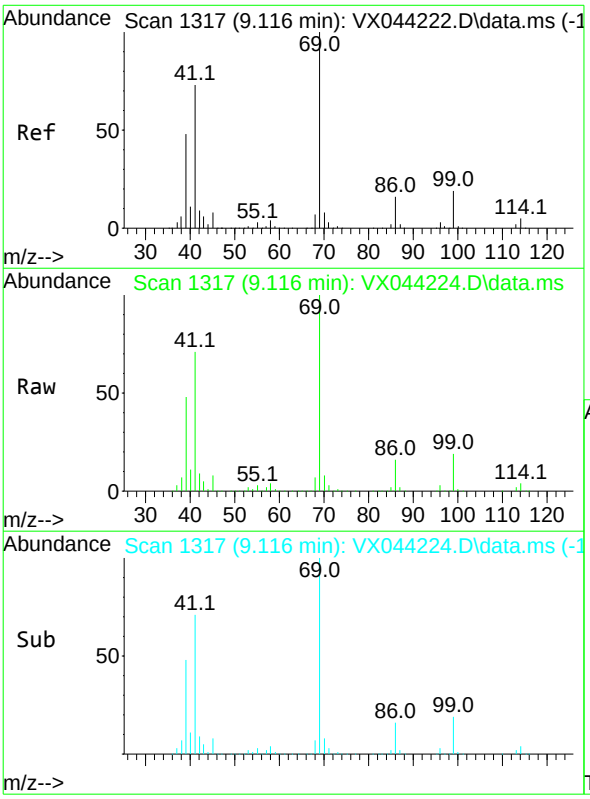
Ion	Ratio	Lower	Upper
97	100		
83	85.5	65.3	97.9
85	55.5	44.6	67.0
99	62.3	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

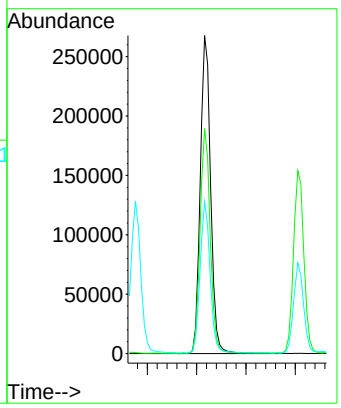
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

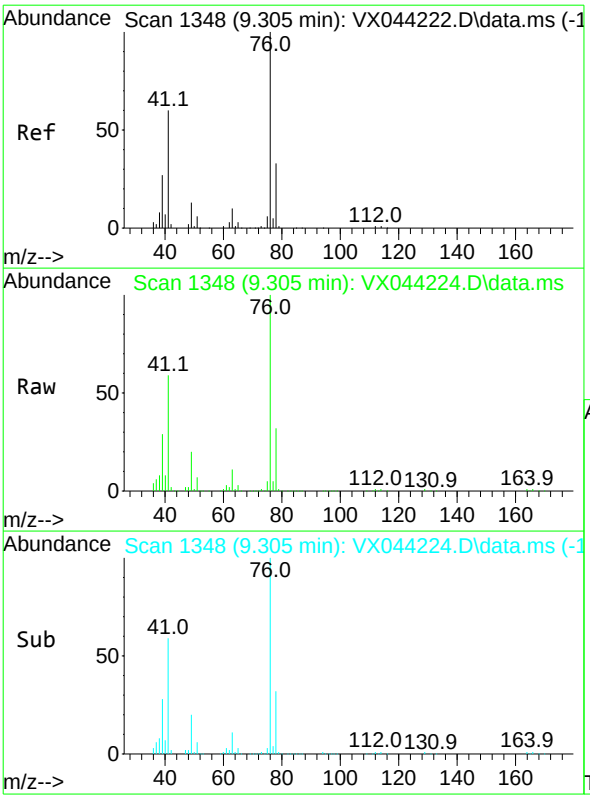


#56
Ethyl methacrylate
Concen: 166.289 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 69 Resp: 389165

Ion	Ratio	Lower	Upper
69	100		
41	69.4	56.6	85.0
39	46.2	37.4	56.0

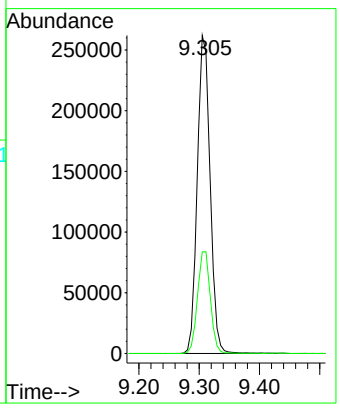




#57
1,3-Dichloropropane
Concen: 150.014 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 76 Resp: 387086

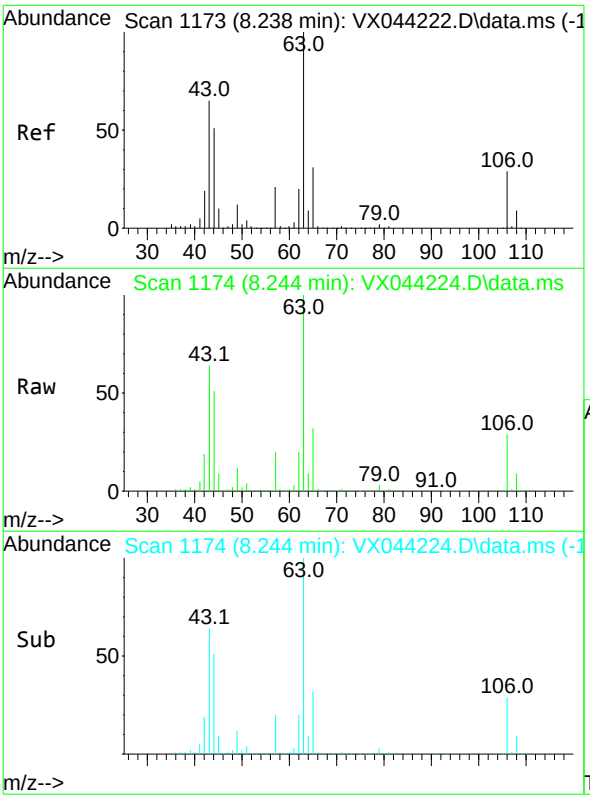
Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

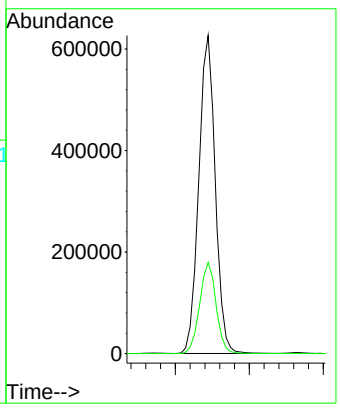
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

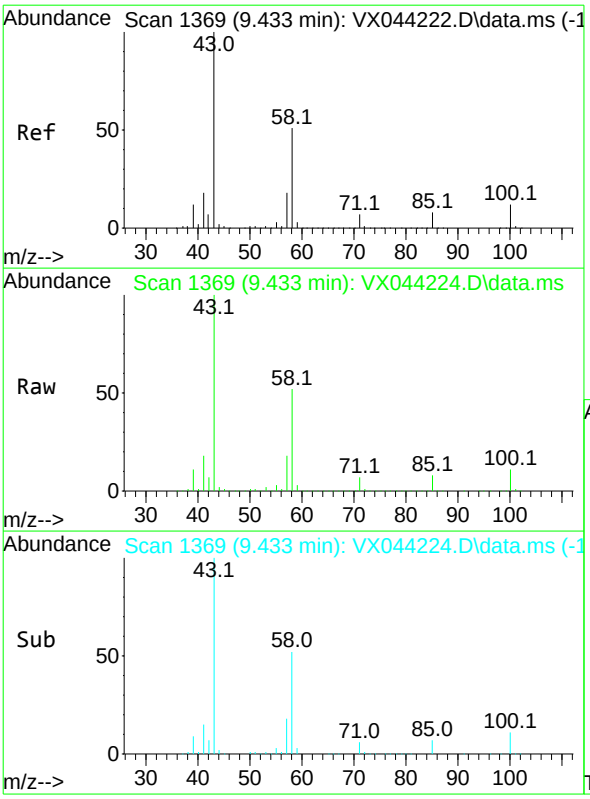


#58
2-Chloroethyl Vinyl ether
Concen: 822.575 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 63 Resp: 970949

Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.8	34.2





#59
2-Hexanone
Concen: 816.161 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

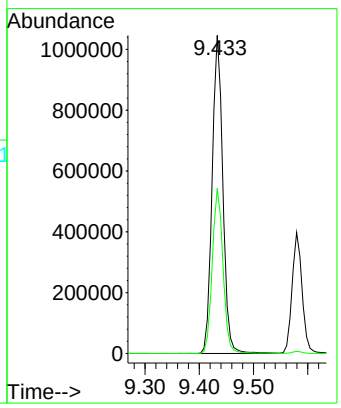
Tgt Ion: 43 Resp: 1436300

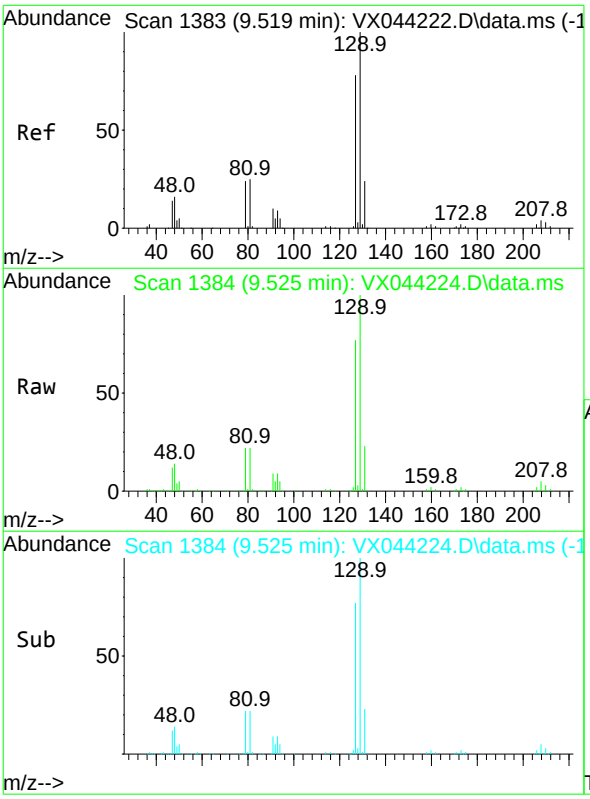
Ion	Ratio	Lower	Upper
43	100		
58	52.0	25.7	77.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

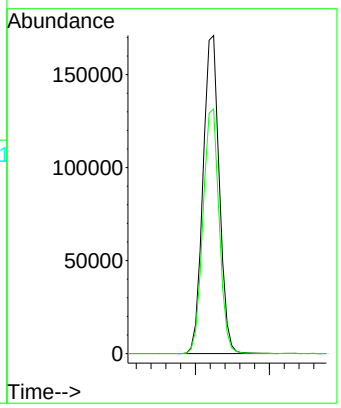


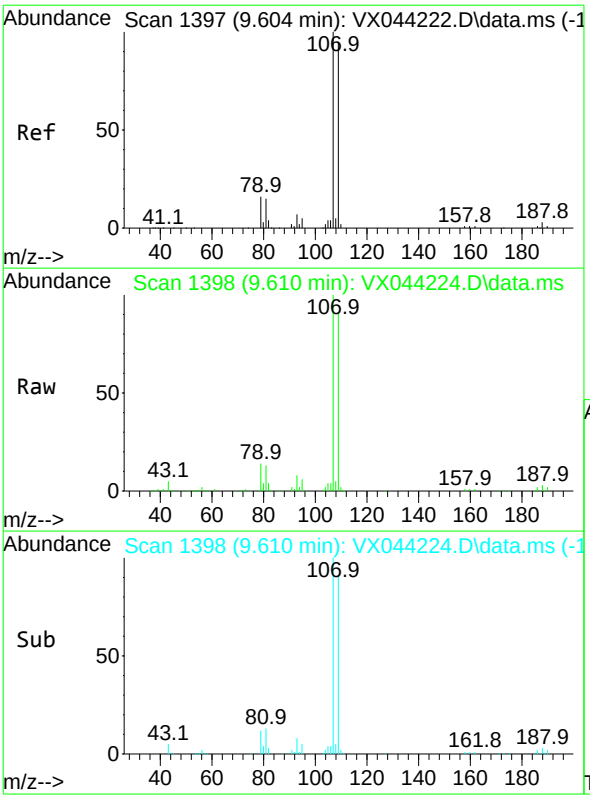


#60
Dibromochloromethane
Concen: 150.105 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:129 Resp: 261253

Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.5	115.3

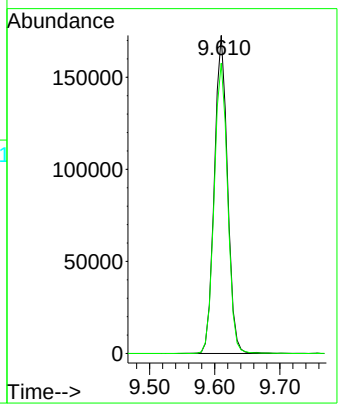




#61
1,2-Dibromoethane
Concen: 160.674 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:107 Resp: 242451

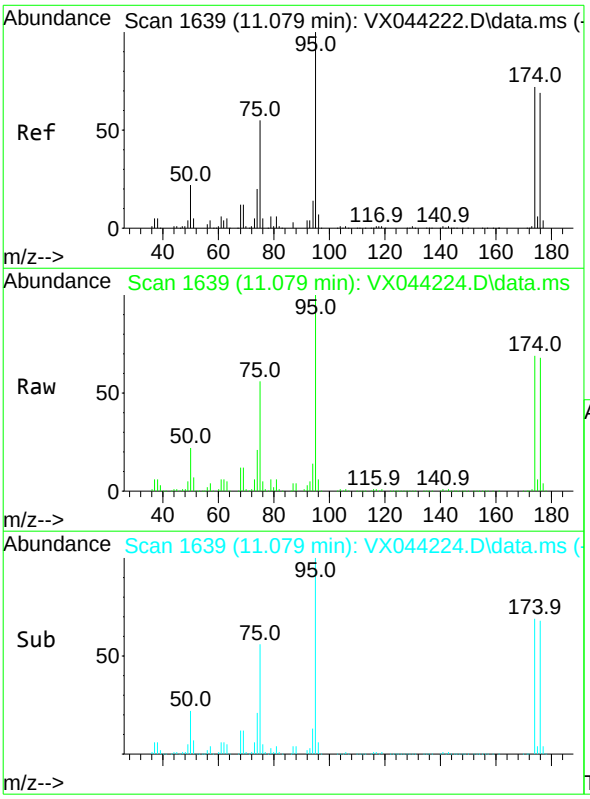
Ion	Ratio	Lower	Upper
107	100		
109	93.4	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

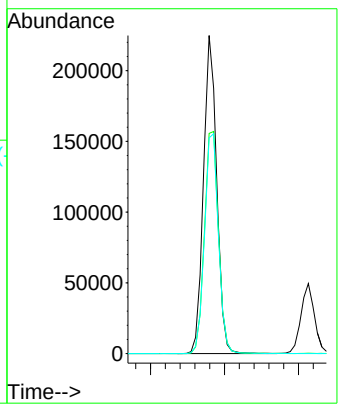
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

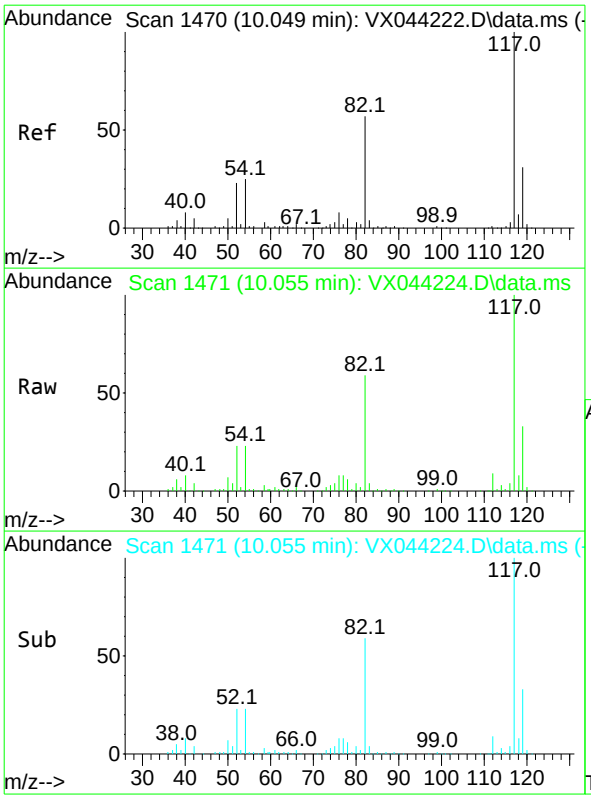


#62
4-Bromofluorobenzene
Concen: 156.709 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 95 Resp: 279706

Ion	Ratio	Lower	Upper
95	100		
174	74.1	0.0	145.8
176	72.6	0.0	137.8

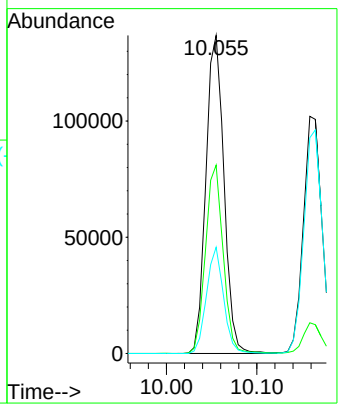




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:117 Resp: 190013

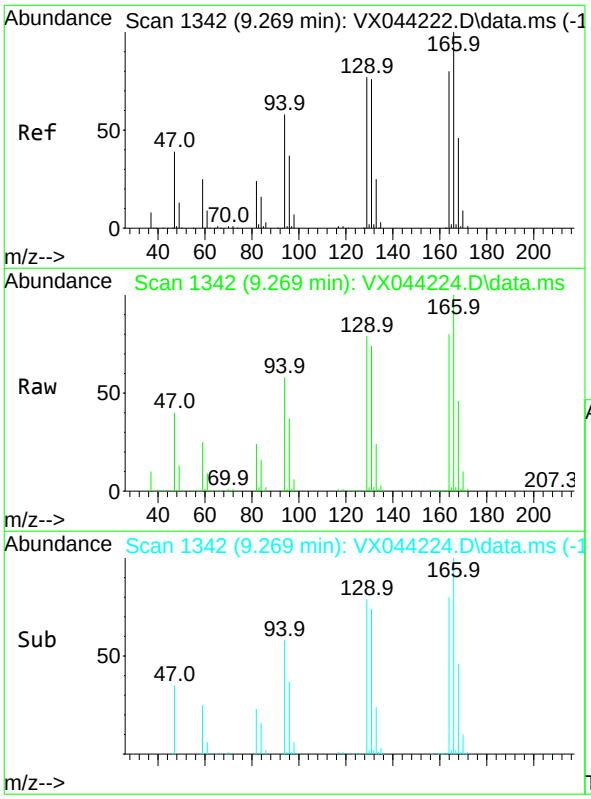
Ion	Ratio	Lower	Upper
117	100		
82	59.2	45.8	68.8
119	33.4	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

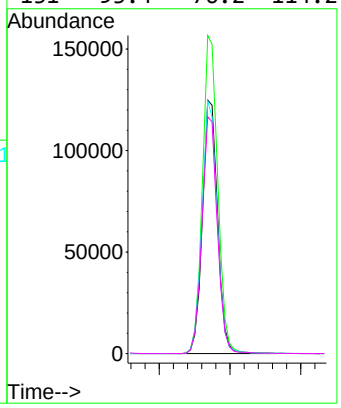
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

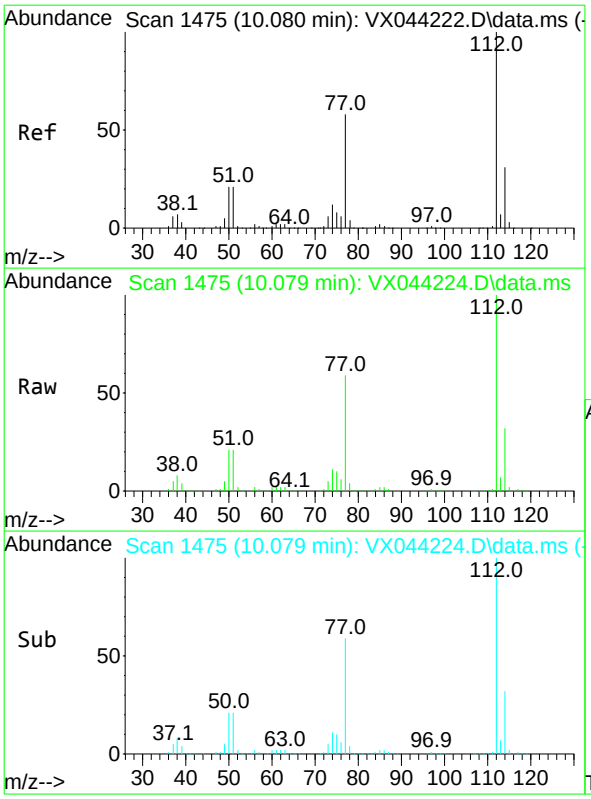


#64
Tetrachloroethene
Concen: 147.836 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:164 Resp: 186443

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	99.7	77.2	115.8
131	93.4	76.2	114.2

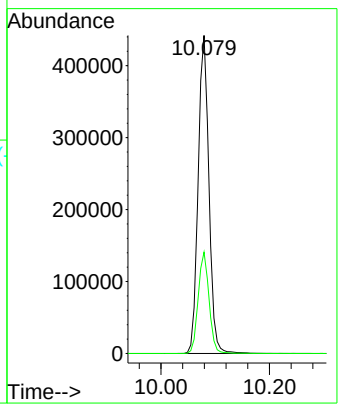




#65
Chlorobenzene
Concen: 149.428 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:112 Resp: 608404

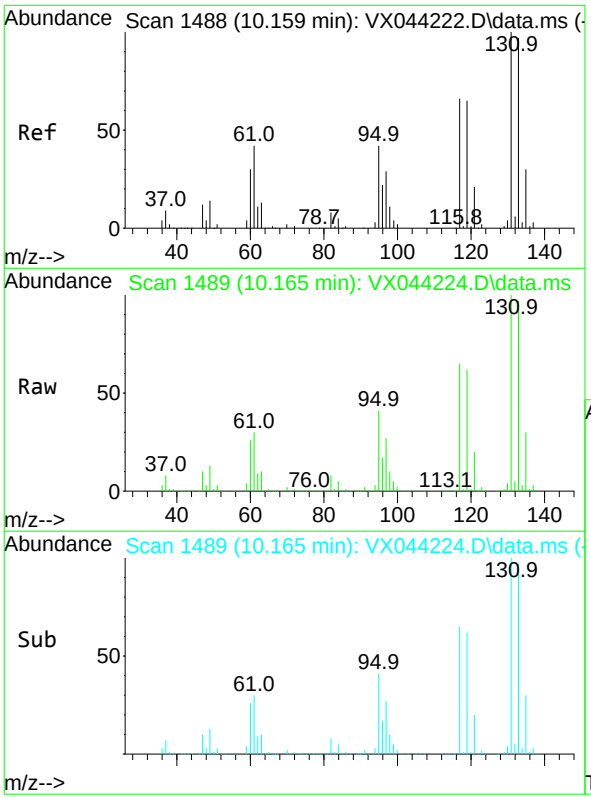
Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

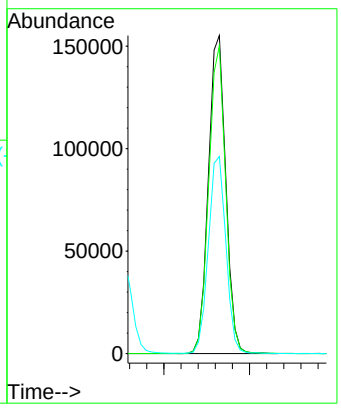
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

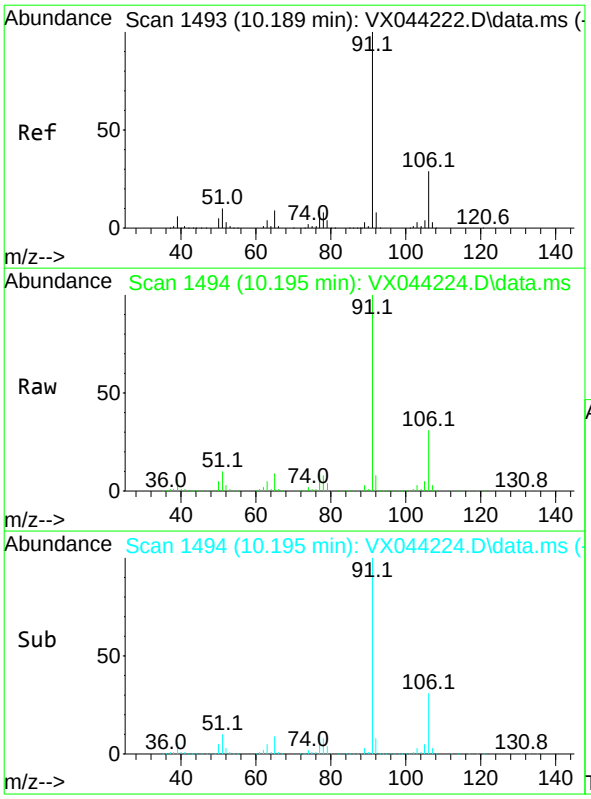


#66
1,1,1,2-Tetrachloroethane
Concen: 166.991 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:131 Resp: 218515

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	141.8
119	62.7	31.6	95.0

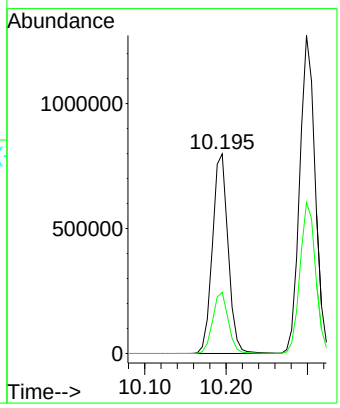




#67
Ethyl Benzene
Concen: 151.917 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 1068736

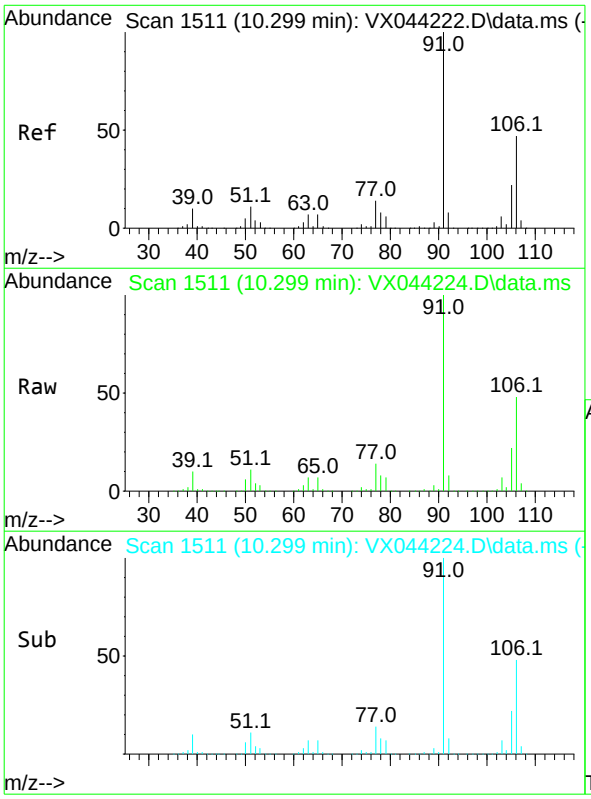
Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

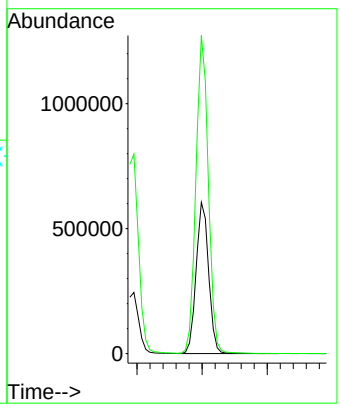
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

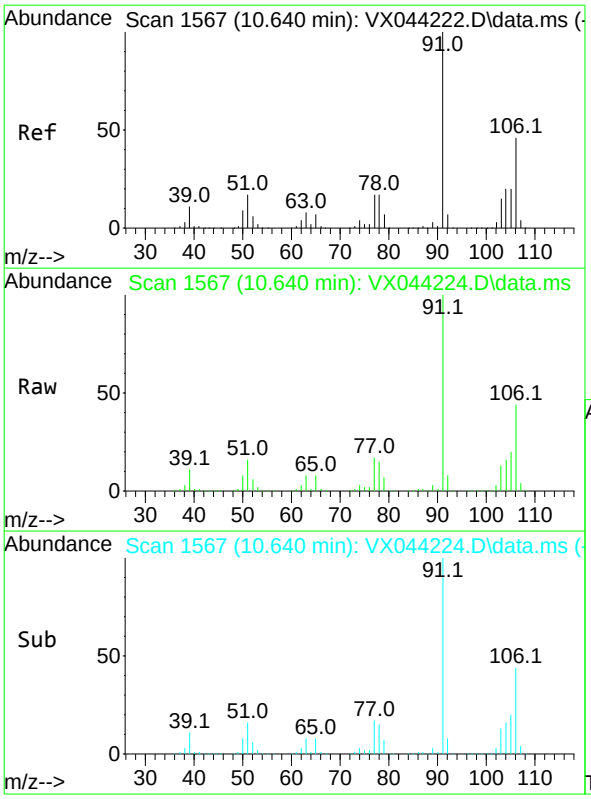


#68
m/p-Xylenes
Concen: 312.254 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:106 Resp: 806058

Ion	Ratio	Lower	Upper
106	100		
91	208.8	170.2	255.2

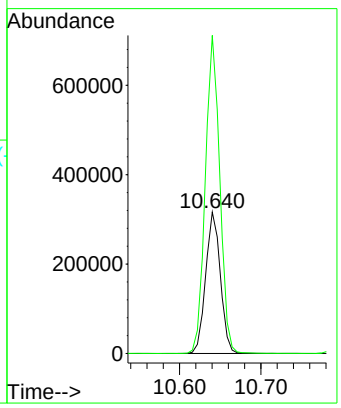




#69
o-Xylene
Concen: 152.030 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:106 Resp: 397084

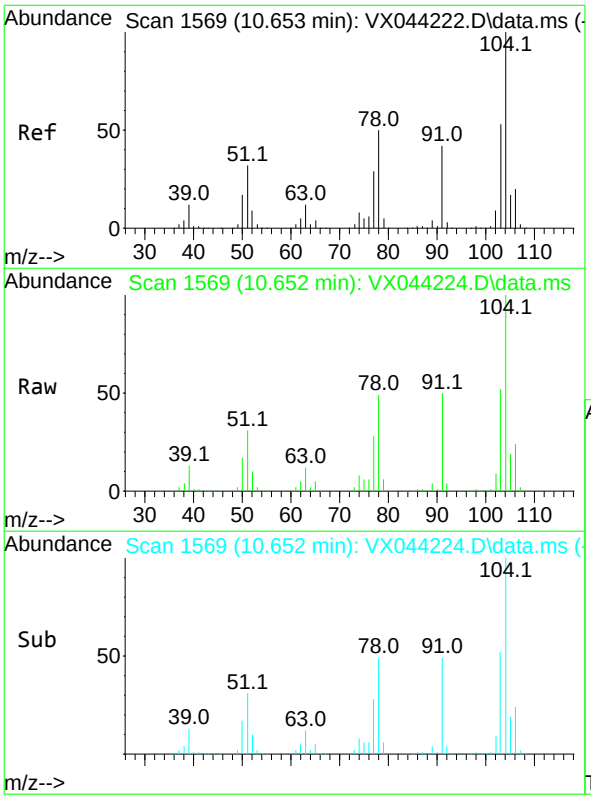
Ion	Ratio	Lower	Upper
106	100		
91	221.5	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

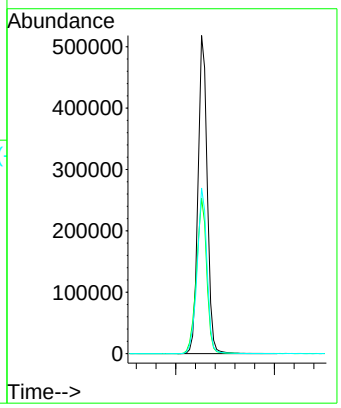
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

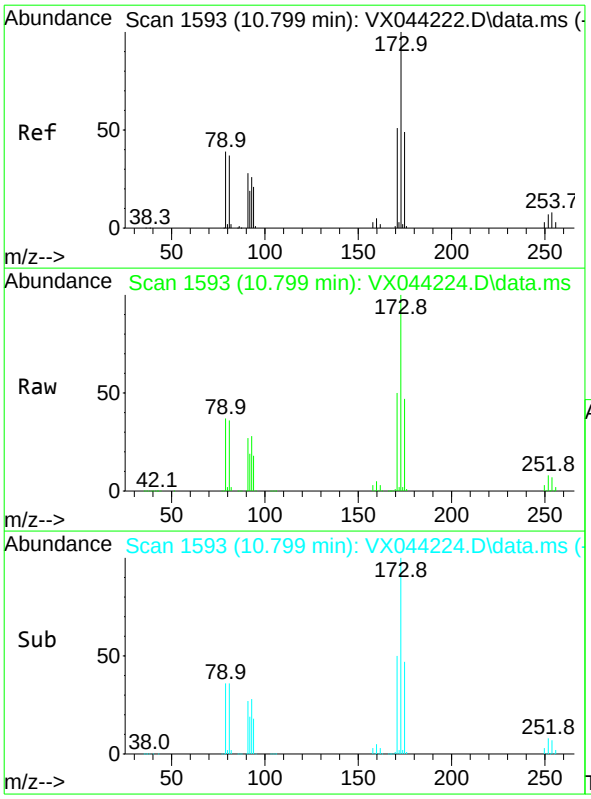


#70
Styrene
Concen: 160.228 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:104 Resp: 670887

Ion	Ratio	Lower	Upper
104	100		
78	54.2	44.6	67.0
103	55.9	45.4	68.0





#71
Bromoform
Concen: 150.034 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

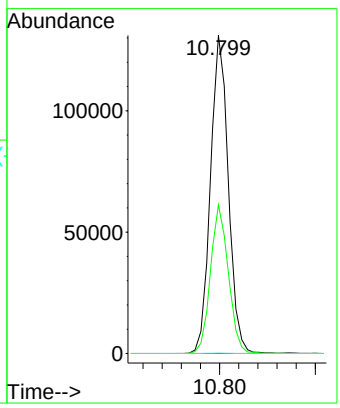
Tgt Ion:173 Resp: 169450

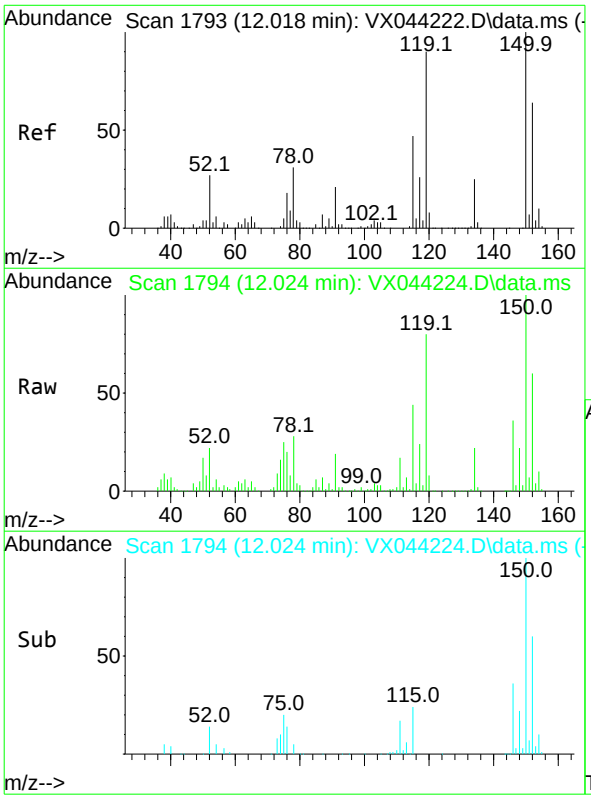
Ion	Ratio	Lower	Upper
173	100		
175	46.8	23.8	71.4
254	0.1	0.0	0.0#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

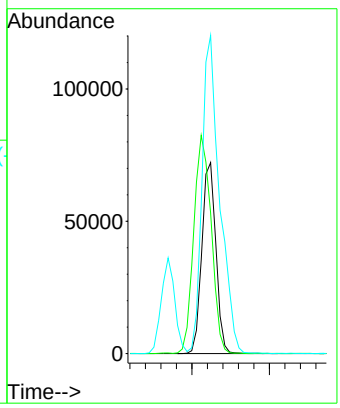


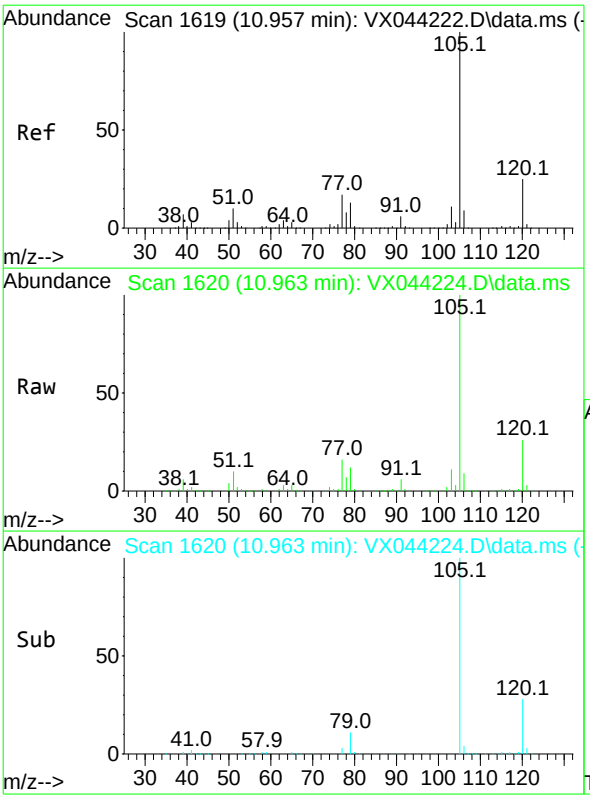


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:152 Resp: 90898

Ion	Ratio	Lower	Upper
152	100		
115	142.2	44.5	133.3#
150	208.8	0.0	353.8

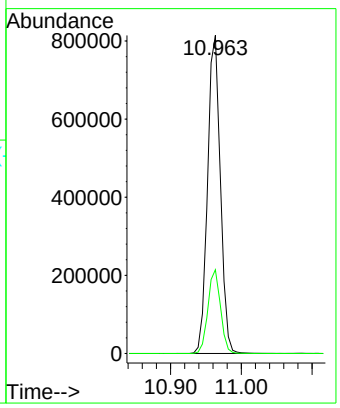




#73
Isopropylbenzene
Concen: 146.832 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:105 Resp: 1021749

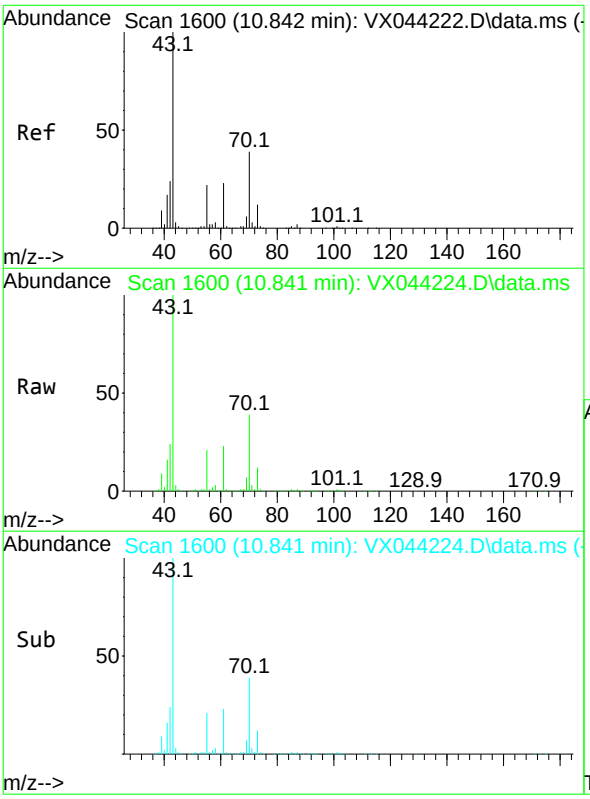
Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

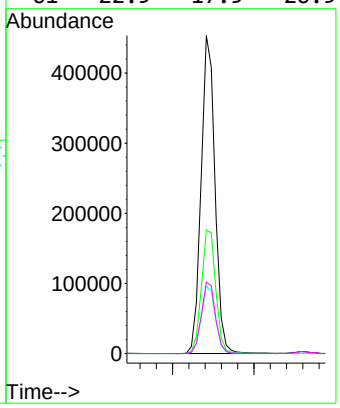
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

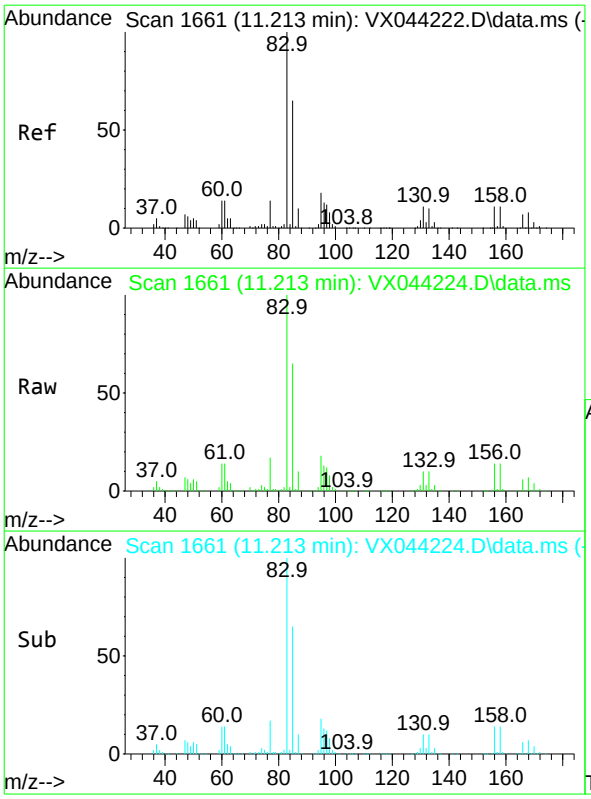


#74
N-amyl acetate
Concen: 166.823 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 536496

Ion	Ratio	Lower	Upper
43	100		
70	40.3	31.9	47.9
55	21.6	17.9	26.9
61	22.9	17.9	26.9

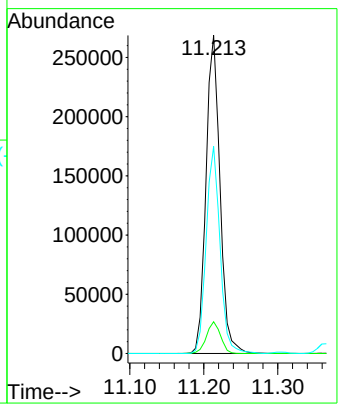




#75
1,1,2,2-Tetrachloroethane
Concen: 145.883 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 83 Resp: 352591

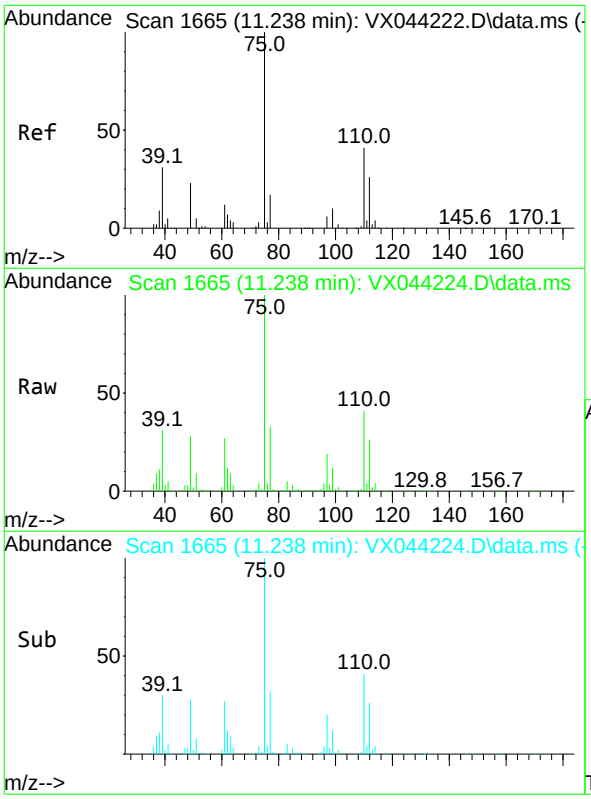
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	64.4	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

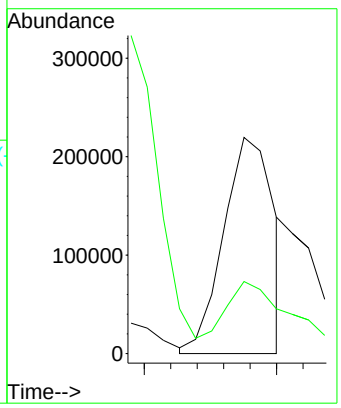
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

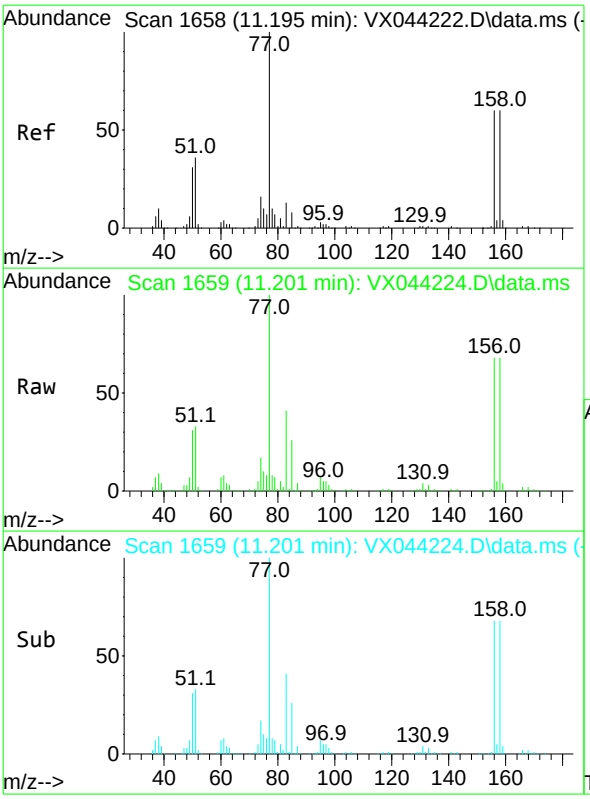


#76
1,2,3-Trichloropropane
Concen: 139.434 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 287602

Ion	Ratio	Lower	Upper
75	100		
77	45.2	20.9	62.7





#77
Bromobenzene
Concen: 144.584 ug/l
RT: 11.201 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

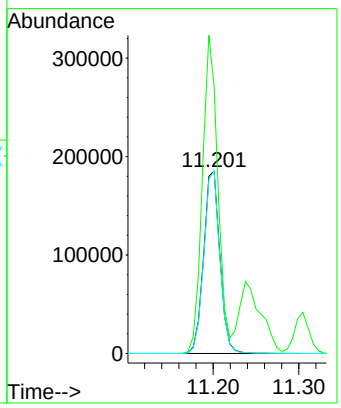
Tgt Ion:156 Resp: 243975

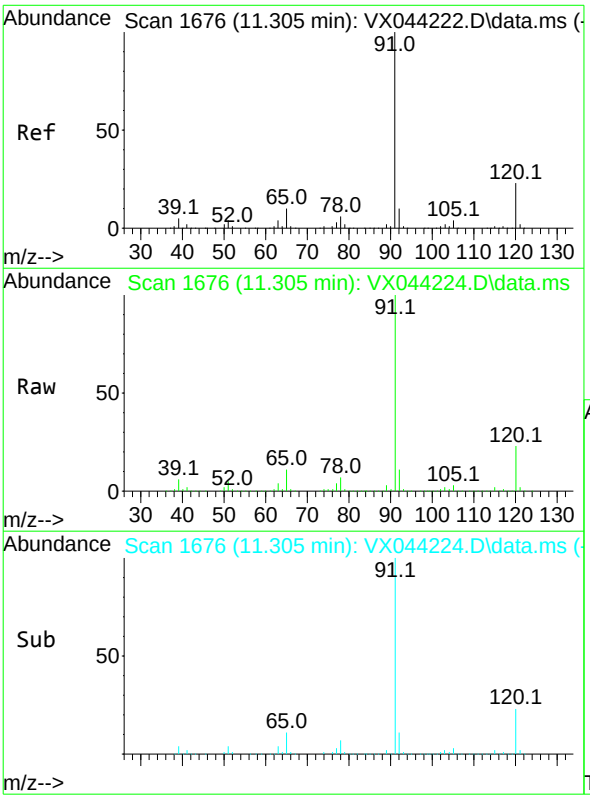
Ion	Ratio	Lower	Upper
156	100		
77	165.5	82.6	247.8
158	98.2	48.8	146.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

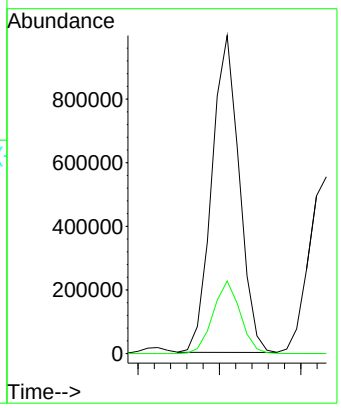


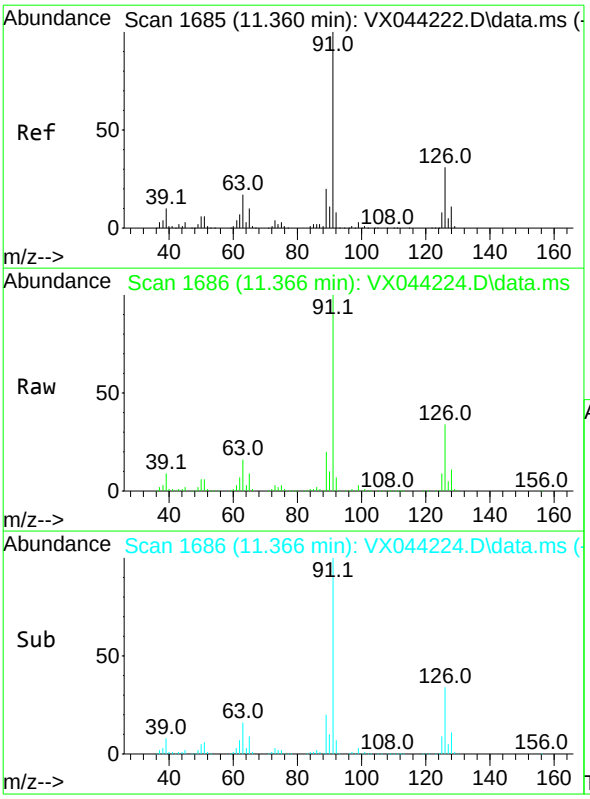


#78
n-propylbenzene
Concen: 151.637 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 1166255

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.0	33.0

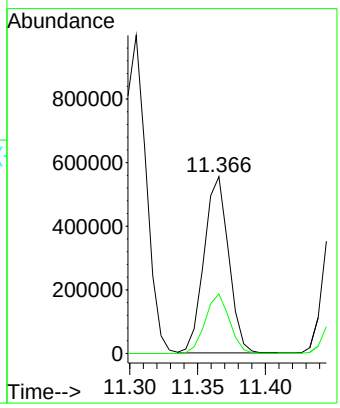




#79
2-Chlorotoluene
Concen: 140.866 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 700673

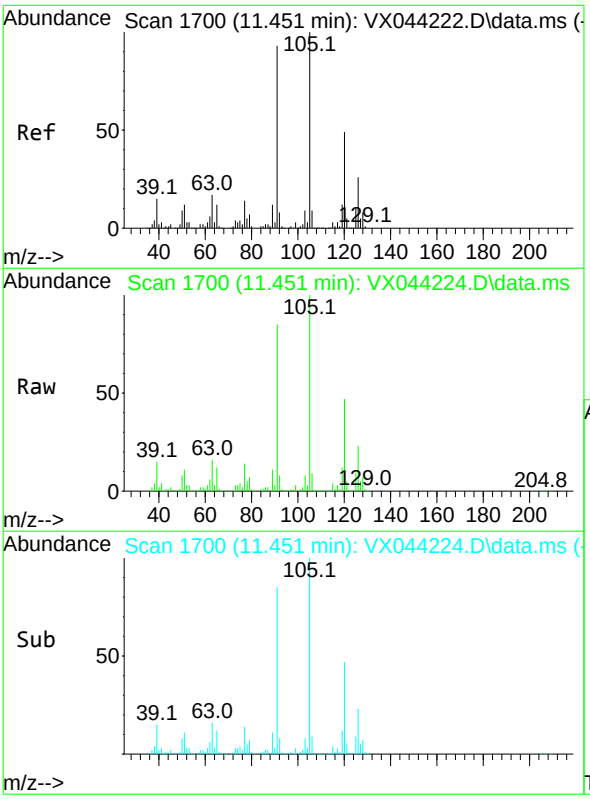
Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

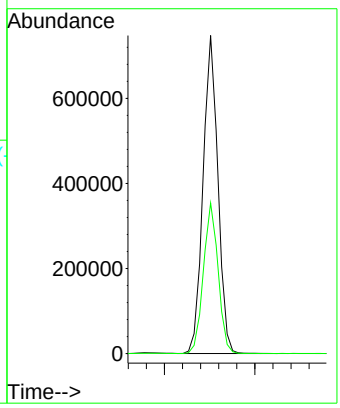
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

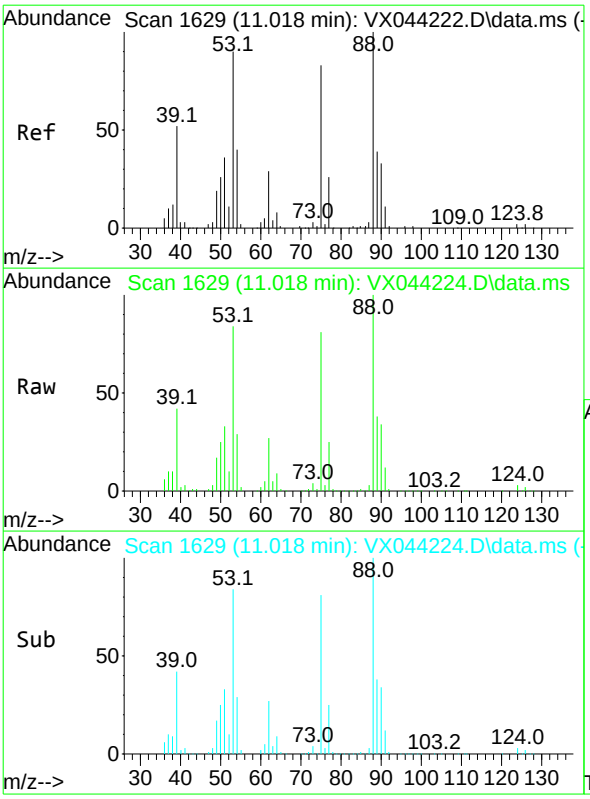


#80
1,3,5-Trimethylbenzene
Concen: 147.824 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:105 Resp: 853042

Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.8	71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 152.670 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

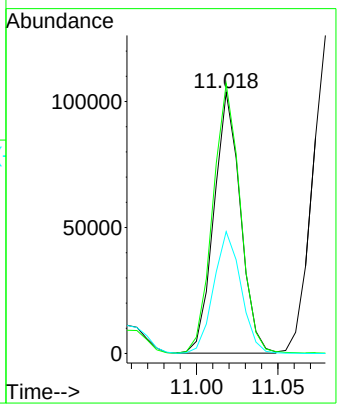
Tgt Ion: 75 Resp: 117263

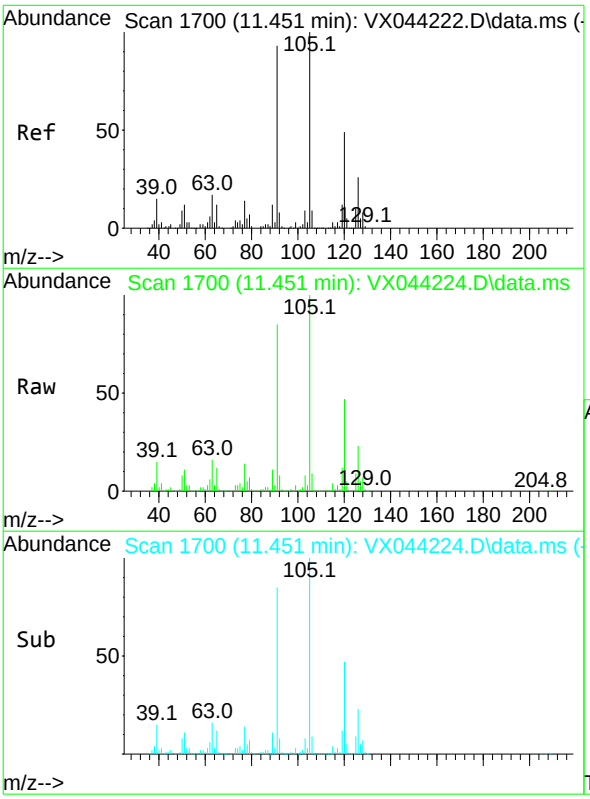
Ion	Ratio	Lower	Upper
75	100		
53	107.3	93.6	140.4
89	48.2	37.3	55.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

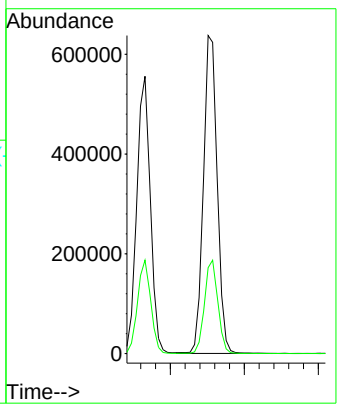


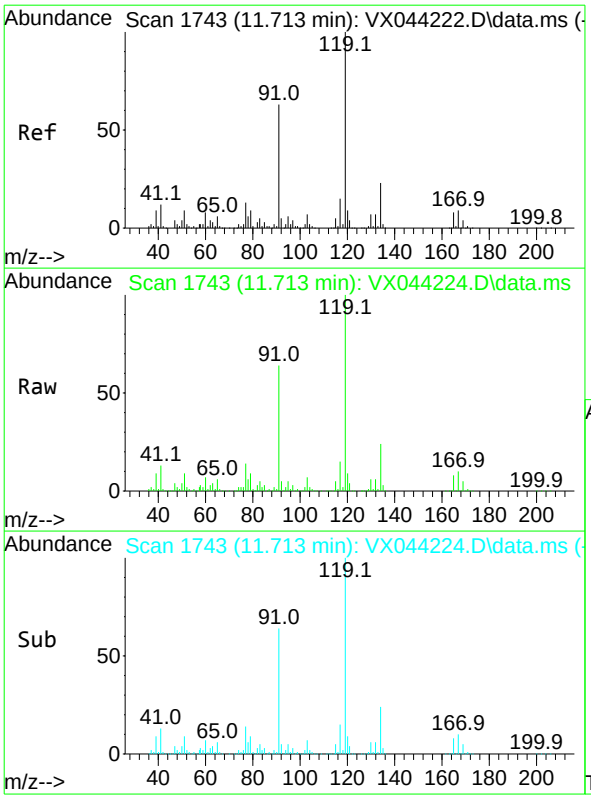


#82
4-Chlorotoluene
Concen: 149.831 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 825278

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.5	43.5

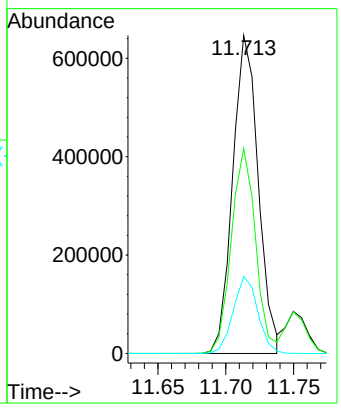




#83
tert-Butylbenzene
Concen: 148.495 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:119 Resp: 846864

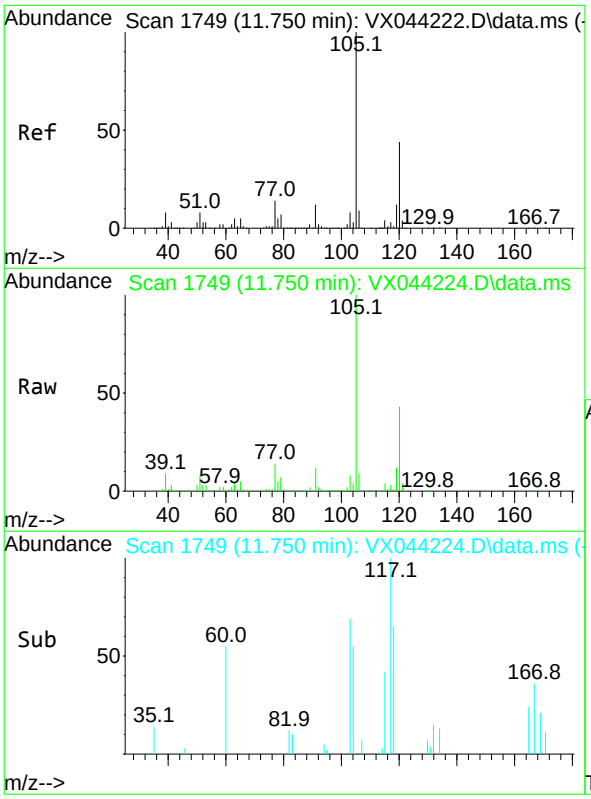
Ion	Ratio	Lower	Upper
119	100		
91	61.3	30.9	92.5
134	23.3	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

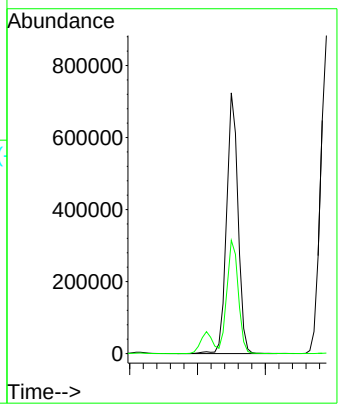
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

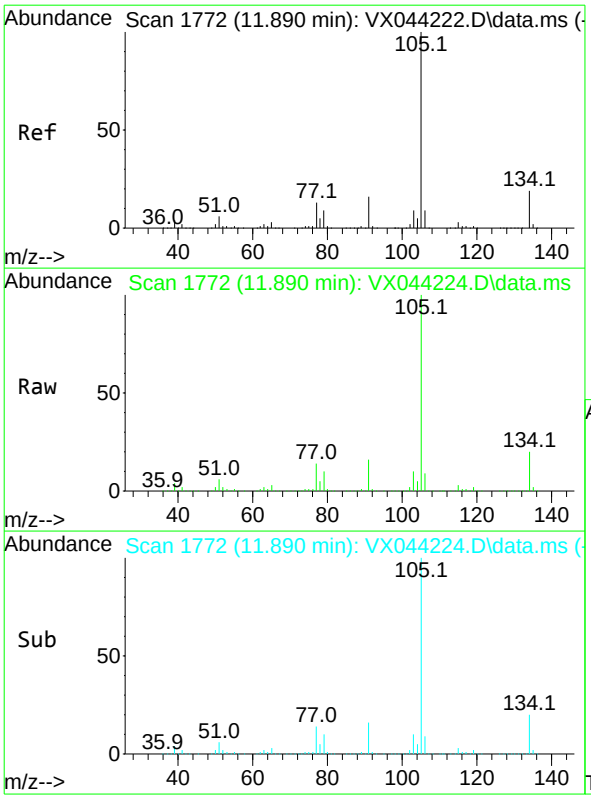


#84
1,2,4-Trimethylbenzene
Concen: 149.414 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:105 Resp: 846771

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.7	65.1





#85
sec-Butylbenzene
Concen: 149.409 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

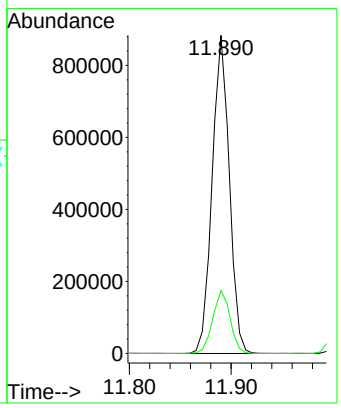
Tgt Ion:105 Resp: 1034419

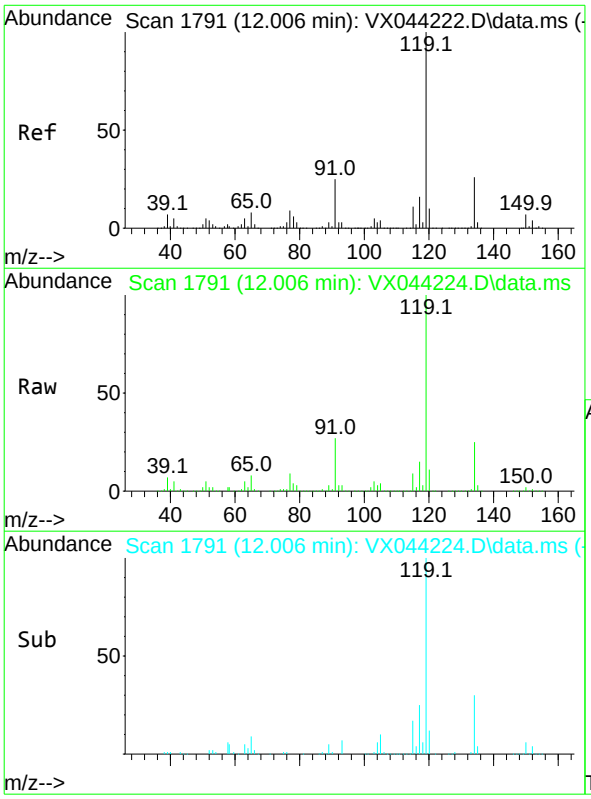
Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

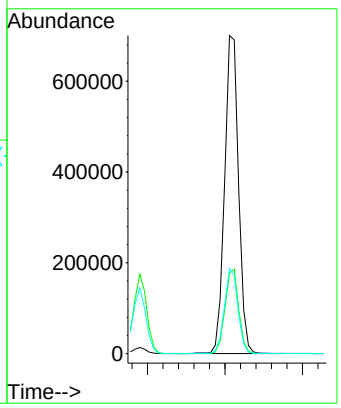


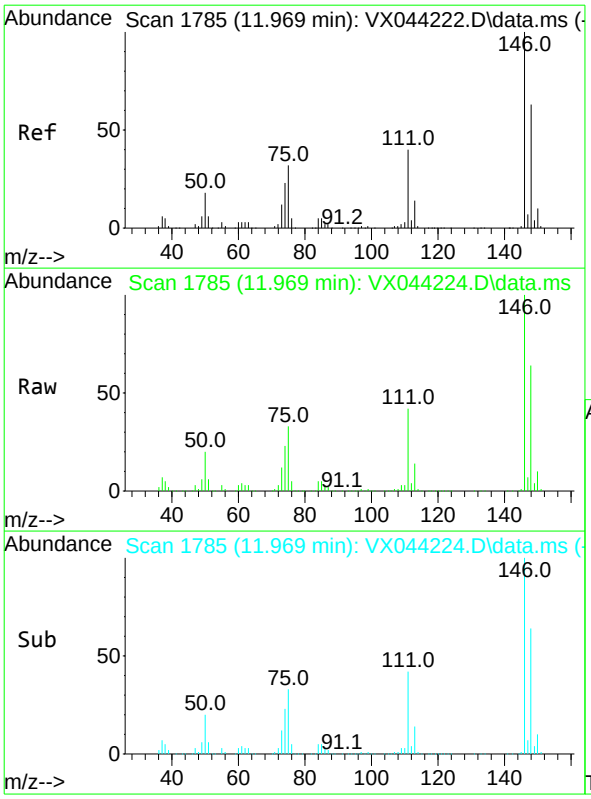


#86
p-Isopropyltoluene
Concen: 151.944 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:119 Resp: 875562

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	25.7	13.0	39.0





#87
1,3-Dichlorobenzene
Concen: 150.575 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

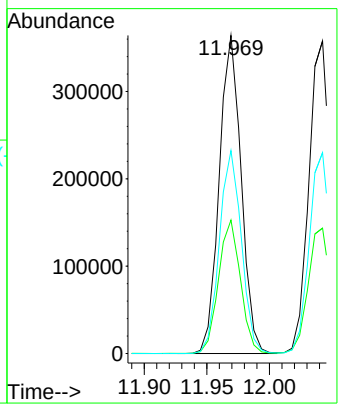
Tgt Ion:146 Resp: 443826

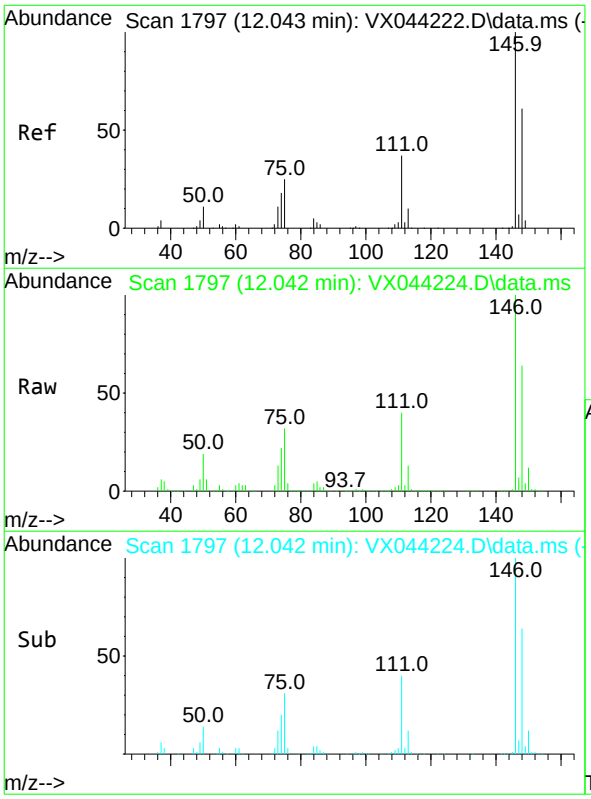
Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.4	64.2
148	64.0	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

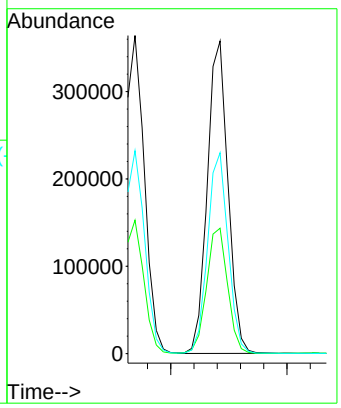


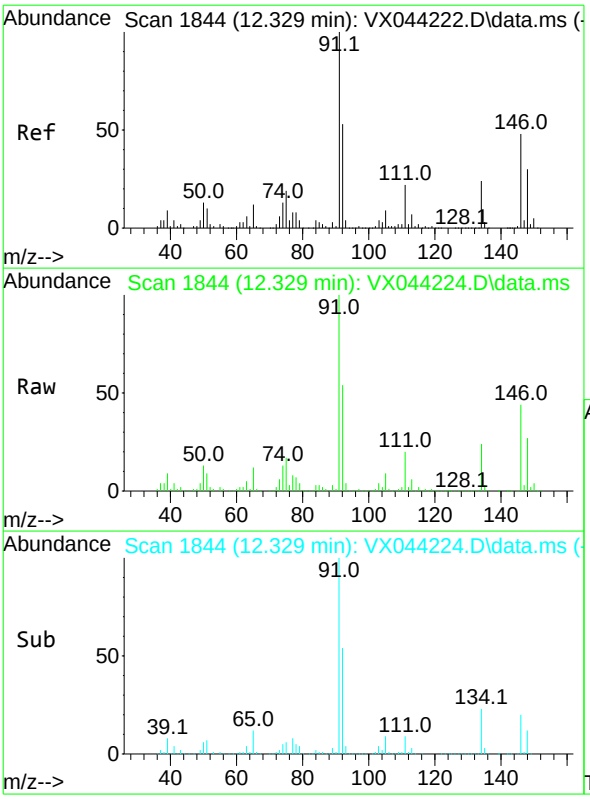


#88
1,4-Dichlorobenzene
Concen: 146.058 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:146 Resp: 442556

Ion	Ratio	Lower	Upper
146	100		
111	40.8	21.0	63.0
148	63.7	32.3	96.8

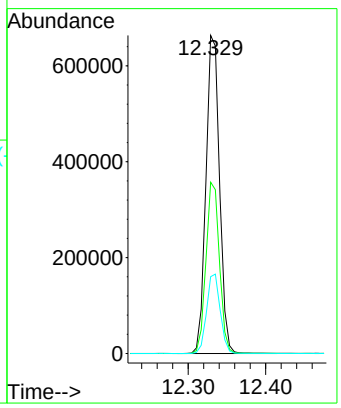




#89
n-Butylbenzene
Concen: 166.836 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 808399

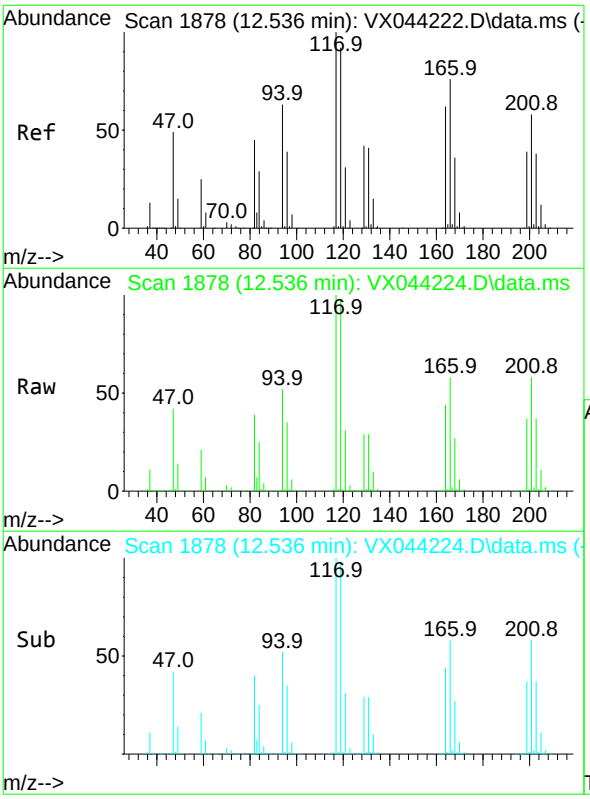
Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.6	79.7
134	25.0	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

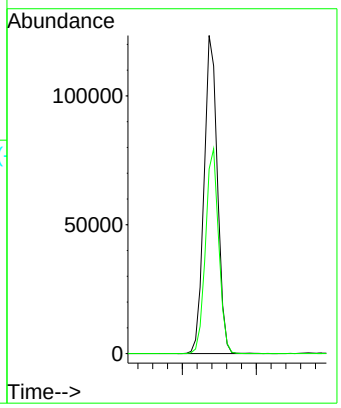
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

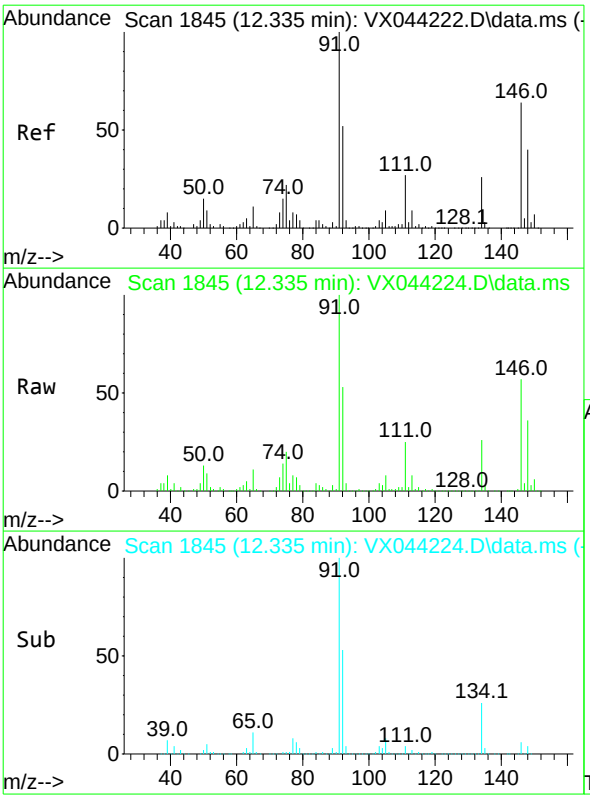


#90
Hexachloroethane
Concen: 183.942 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:117 Resp: 154726

Ion	Ratio	Lower	Upper
117	100		
201	63.5	31.4	94.2





#91
1,2-Dichlorobenzene
Concen: 146.357 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

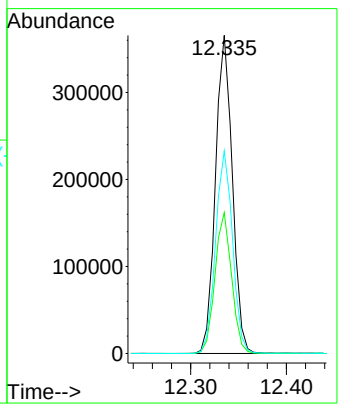
Tgt Ion:146 Resp: 447931

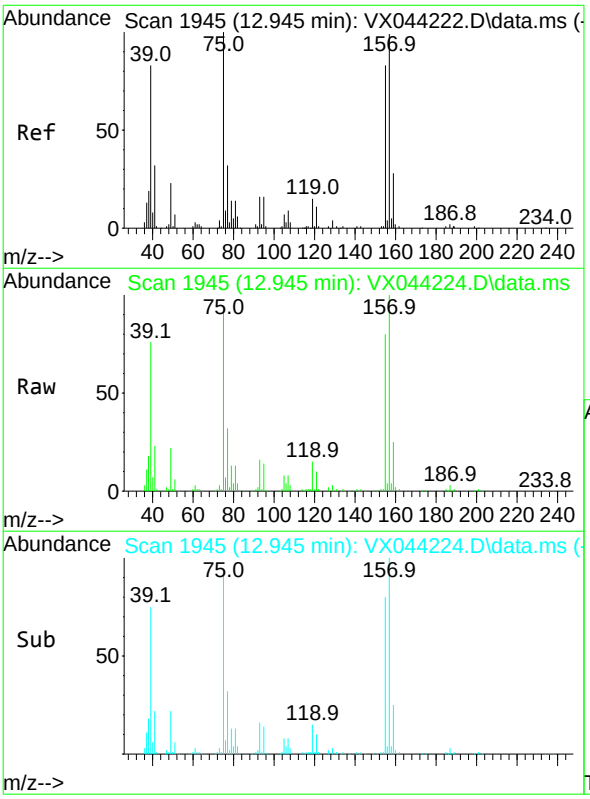
Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.4	64.3
148	64.2	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

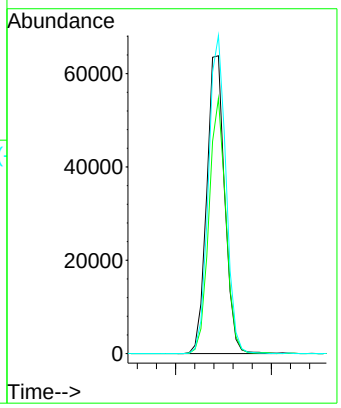


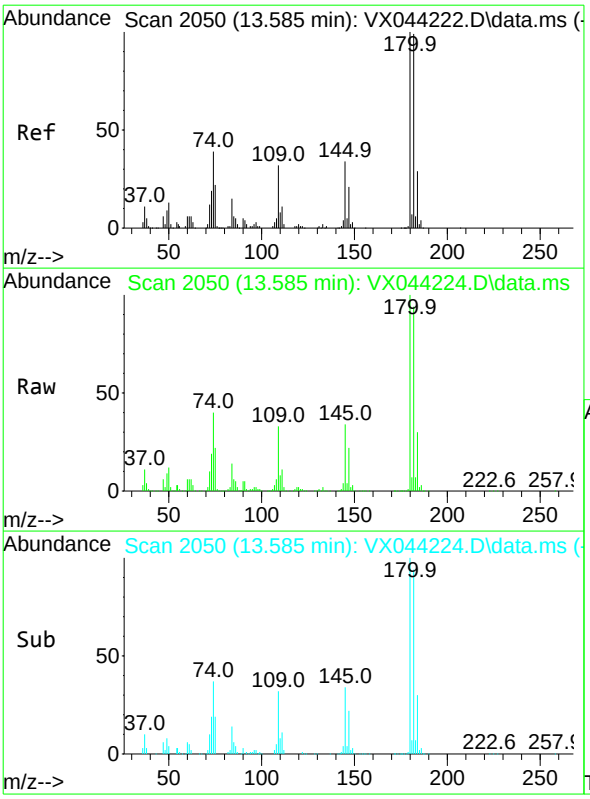


#92
1,2-Dibromo-3-Chloropropane
Concen: 178.106 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 83565

Ion	Ratio	Lower	Upper
75	100		
155	79.8	38.1	114.3
157	103.3	47.2	141.6

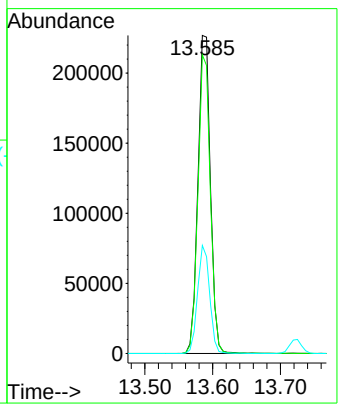




#93
1,2,4-Trichlorobenzene
Concen: 171.952 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:180 Resp: 288519

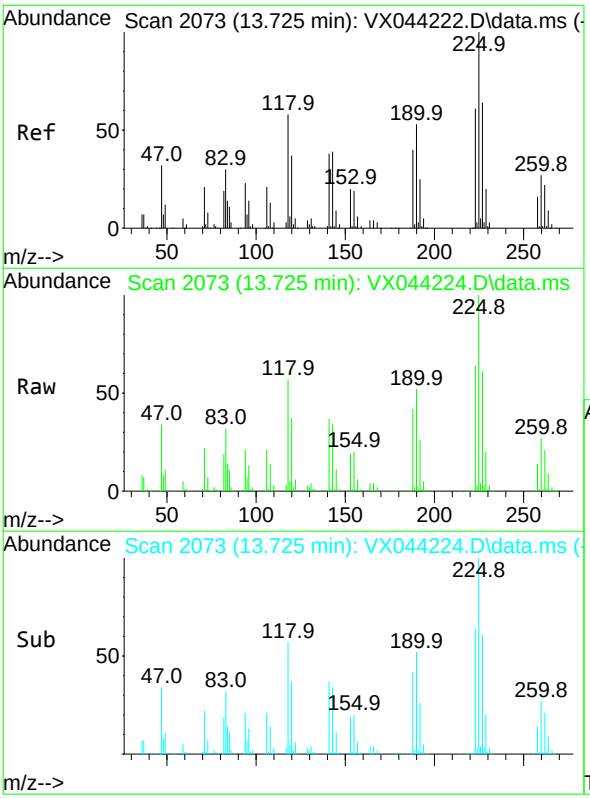
Ion	Ratio	Lower	Upper
180	100		
182	93.3	48.0	144.2
145	33.0	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

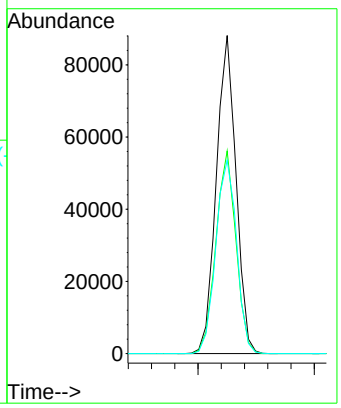
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

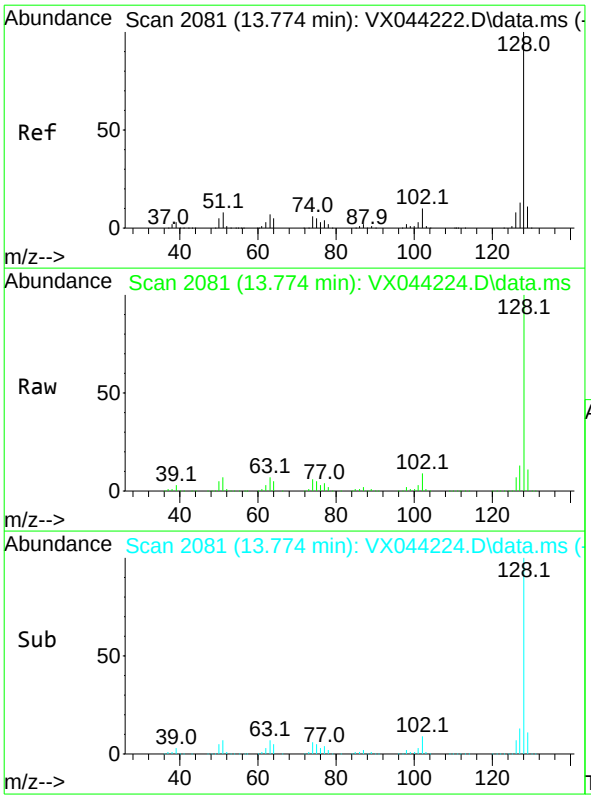


#94
Hexachlorobutadiene
Concen: 154.036 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:225 Resp: 103961

Ion	Ratio	Lower	Upper
225	100		
223	64.7	30.8	92.4
227	64.0	32.1	96.3

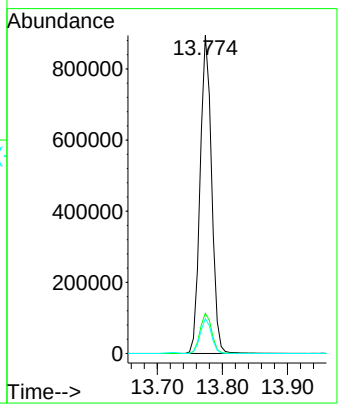




#95
Naphthalene
Concen: 167.187 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:128 Resp: 1094997

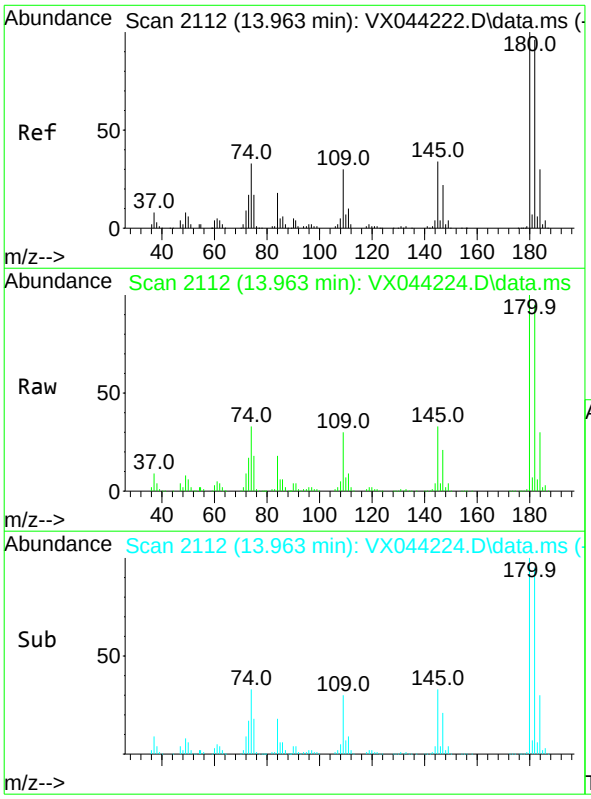
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.8	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

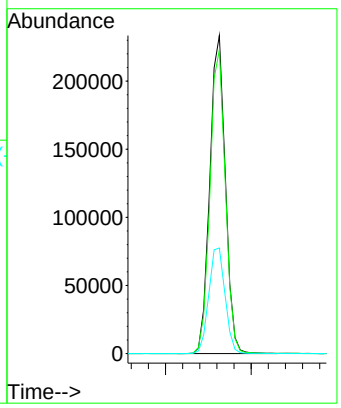
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 165.064 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:180 Resp: 293760

Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.0	144.0
145	34.9	17.7	53.1



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	134203	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	237295	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	210572	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	99879	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	107407	45.646	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 91.300%			
35) Dibromofluoromethane	5.379	113	77619	47.228	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.460%			
50) Toluene-d8	8.647	98	271508	48.968	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.940%			
62) 4-Bromofluorobenzene	11.079	95	97061	50.098	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	104566	50.390	ug/l	98
3) Chloromethane	1.294	50	92633	46.681	ug/l	98
4) Vinyl Chloride	1.374	62	97702	47.260	ug/l	97
5) Bromomethane	1.593	94	67357	45.926	ug/l	99
6) Chloroethane	1.666	64	62821	48.801	ug/l	100
7) Trichlorofluoromethane	1.867	101	203619	50.311	ug/l	99
8) Diethyl Ether	2.136	74	63075	45.658	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.312	101	82498	50.374	ug/l	99
10) Methyl Iodide	2.441	142	100043	46.349	ug/l	100
11) Tert butyl alcohol	3.001	59	77494	233.680	ug/l	100
12) 1,1-Dichloroethene	2.306	96	74177	49.311	ug/l	99
13) Acrolein	2.233	56	111927	233.162	ug/l	97
14) Allyl chloride	2.654	41	124635	49.744	ug/l	100
15) Acrylonitrile	3.068	53	221037	240.620	ug/l	100
16) Acetone	2.386	43	260267	271.312	ug/l	98
17) Carbon Disulfide	2.501	76	149824	52.397	ug/l	98
18) Methyl Acetate	2.709	43	115569	46.725	ug/l	93
19) Methyl tert-butyl Ether	3.117	73	281413	47.940	ug/l	99
20) Methylene Chloride	2.782	84	83188	46.170	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	77471	48.459	ug/l	98
22) Diisopropyl ether	3.763	45	264732	46.922	ug/l	98
23) Vinyl Acetate	3.721	43	1185779	258.510	ug/l	99
24) 1,1-Dichloroethane	3.605	63	151134	48.056	ug/l	98
25) 2-Butanone	4.562	43	346052	253.747	ug/l	100
26) 2,2-Dichloropropane	4.465	77	140196	54.872	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	94838	46.709	ug/l	99
28) Bromochloromethane	4.891	49	69139	44.832	ug/l	99
29) Tetrahydrofuran	5.007	42	208362	238.031	ug/l	98
30) Chloroform	5.092	83	163372	46.235	ug/l	94
31) Cyclohexane	5.458	56	125567	49.443	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	146348	49.895	ug/l	99
36) 1,1-Dichloropropene	5.684	75	106889	50.314	ug/l	98
37) Ethyl Acetate	4.721	43	137017	52.176	ug/l	99
38) Carbon Tetrachloride	5.672	117	118390	51.763	ug/l	97
39) Methylcyclohexane	7.373	83	139077	54.761	ug/l	99
40) Benzene	6.031	78	316391	49.052	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	68251	48.945 ug/l	98
42) 1,2-Dichloroethane	6.086	62	132744	49.960 ug/l	100
43) Isopropyl Acetate	6.342	43	211889	51.624 ug/l	100
44) Trichloroethene	7.123	130	80008	49.741 ug/l	98
45) 1,2-Dichloropropane	7.427	63	78321	47.528 ug/l	98
46) Dibromomethane	7.574	93	65491	51.227 ug/l	99
47) Bromodichloromethane	7.818	83	116783	52.893 ug/l	99
48) Methyl methacrylate	7.690	41	101318	50.852 ug/l	98
49) 1,4-Dioxane	7.665	88	30522m	923.966 ug/l	
51) 4-Methyl-2-Pentanone	8.574	43	673069	255.038 ug/l	99
52) Toluene	8.714	92	199281	49.199 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	120696	50.864 ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	128875	53.607 ug/l	96
55) 1,1,2-Trichloroethane	9.153	97	81362	50.562 ug/l	96
56) Ethyl methacrylate	9.116	69	134357	52.890 ug/l	98
57) 1,3-Dichloropropane	9.305	76	137705	49.165 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	332599	259.586 ug/l	100
59) 2-Hexanone	9.433	43	519476	271.943 ug/l	99
60) Dibromochloromethane	9.518	129	83515	49.073 ug/l	99
61) 1,2-Dibromoethane	9.610	107	85024	51.909 ug/l	97
64) Tetrachloroethene	9.269	164	66669	47.702 ug/l	98
65) Chlorobenzene	10.079	112	217180	48.133 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	74531	51.396 ug/l	100
67) Ethyl Benzene	10.189	91	385605	49.461 ug/l	99
68) m/p-Xylenes	10.299	106	285774	99.896 ug/l	99
69) o-Xylene	10.640	106	144001	49.750 ug/l	98
70) Styrene	10.652	104	239508	51.617 ug/l	98
71) Bromoform	10.799	173	50972	50.269 ug/l #	99
73) Isopropylbenzene	10.963	105	374769	49.014 ug/l	99
74) N-amyl acetate	10.841	43	183763	52.003 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	126615	47.676 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	103796m	46.544 ug/l	
77) Bromobenzene	11.195	156	87767	47.335 ug/l	99
78) n-propylbenzene	11.305	91	429443	50.816 ug/l	99
79) 2-Chlorotoluene	11.366	91	259860	47.546 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	313435	49.431 ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	37038	47.861 ug/l	97
82) 4-Chlorotoluene	11.451	91	297641	49.178 ug/l	100
83) tert-Butylbenzene	11.713	119	309463	49.384 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	313433	50.333 ug/l	100
85) sec-Butylbenzene	11.890	105	381109	50.097 ug/l	100
86) p-Isopropyltoluene	12.006	119	320882	50.678 ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	159094	49.122 ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	160742	48.280 ug/l	99
89) n-Butylbenzene	12.329	91	283284	53.207 ug/l	99
90) Hexachloroethane	12.536	117	48734	52.727 ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	160039	47.589 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	26738	51.864 ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	99449	53.940 ug/l	98
94) Hexachlorobutadiene	13.725	225	37651	50.770 ug/l	98
95) Naphthalene	13.774	128	365781	50.827 ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	100209	51.244 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

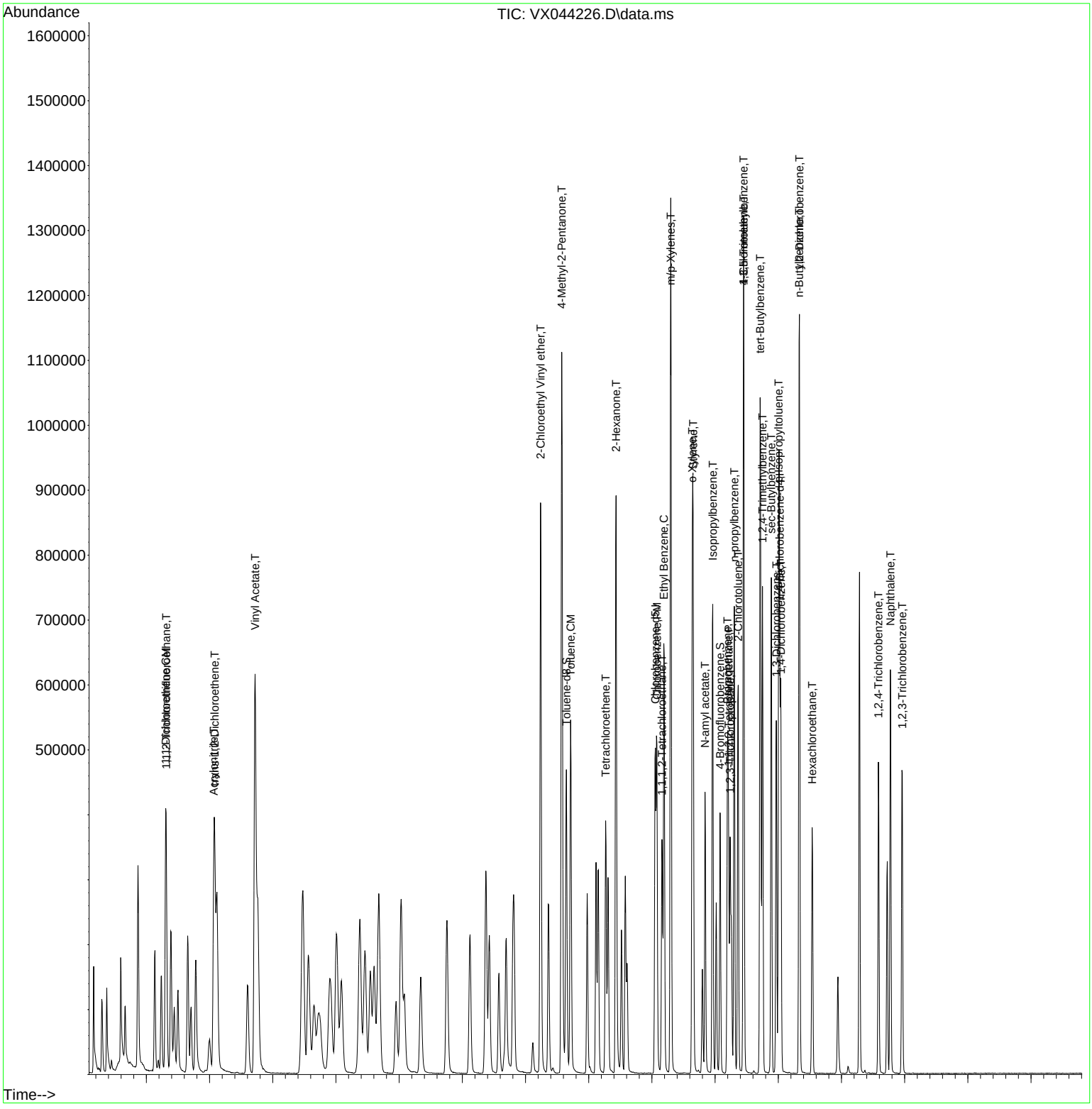
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

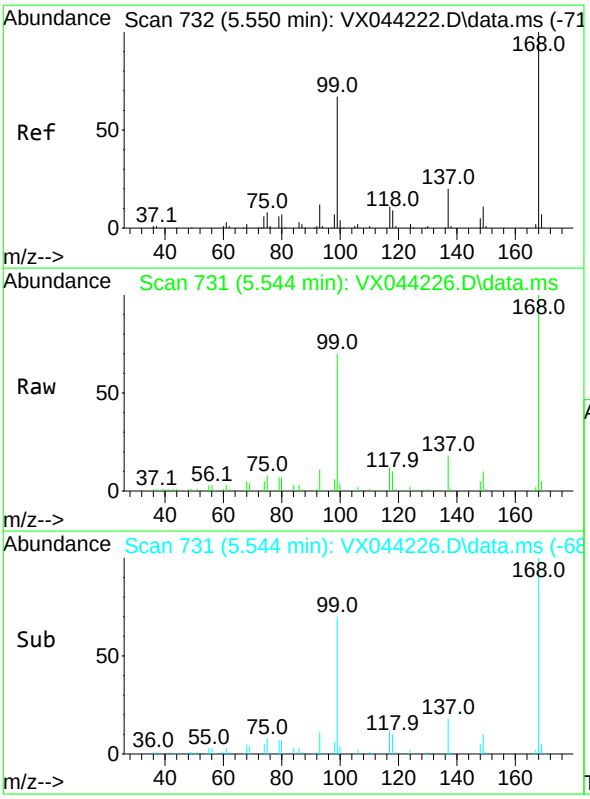
Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

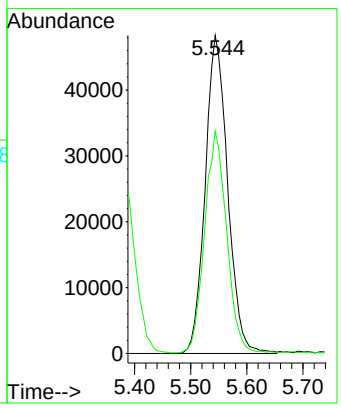




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:168 Resp: 134203

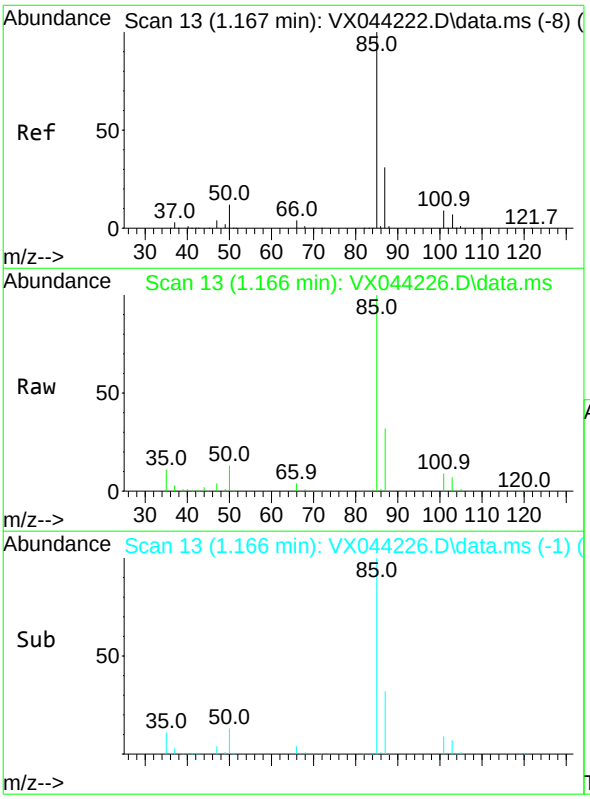
Ion	Ratio	Lower	Upper
168	100		
99	69.7	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

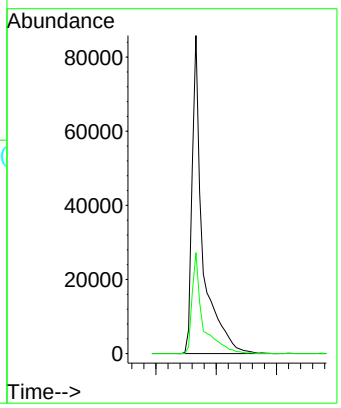
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

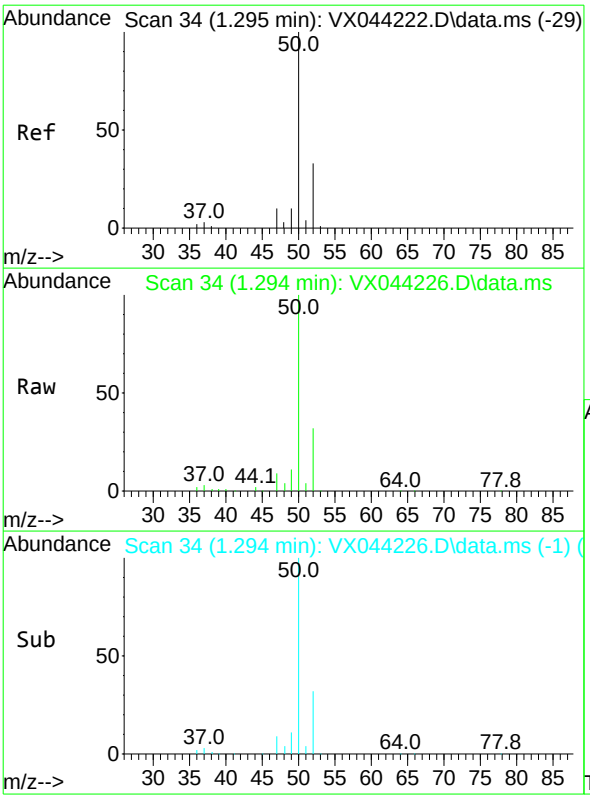


#2
Dichlorodifluoromethane
Concen: 50.390 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 85 Resp: 104566

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.4	46.4

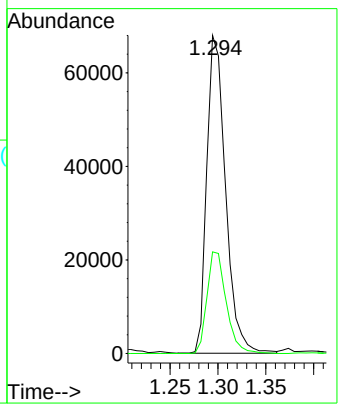




#3
Chloromethane
Concen: 46.681 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 50 Resp: 92633

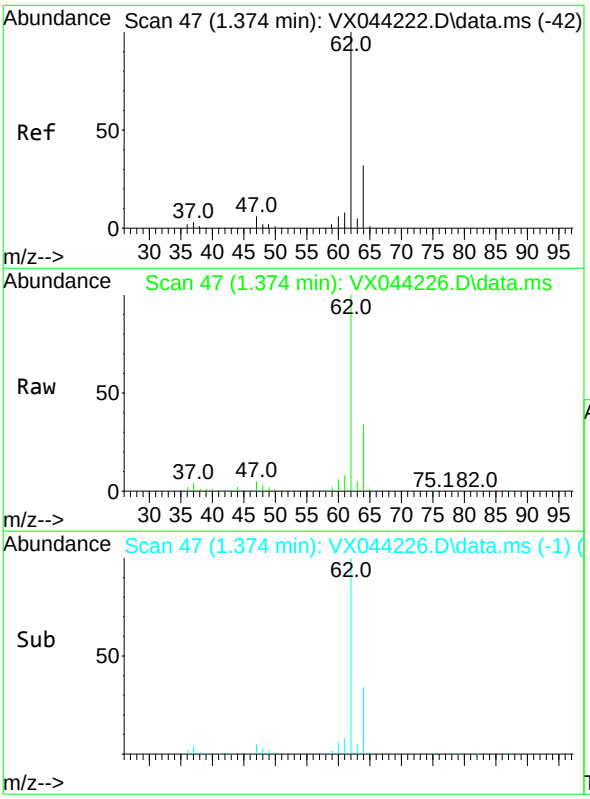
Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

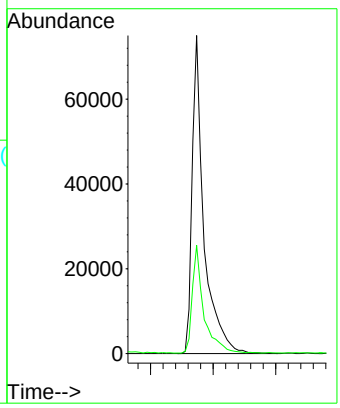
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

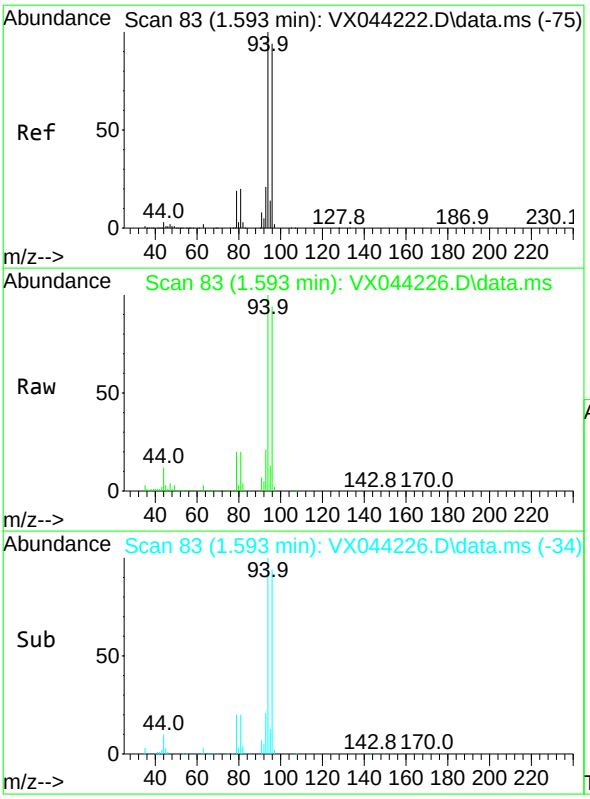


#4
Vinyl Chloride
Concen: 47.260 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 62 Resp: 97702

Ion	Ratio	Lower	Upper
62	100		
64	33.9	25.7	38.5

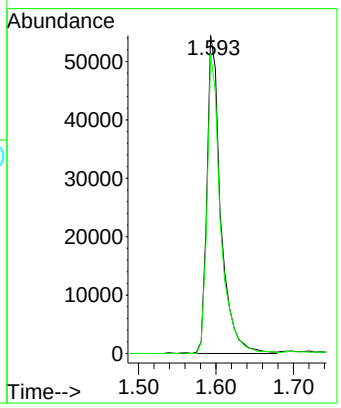




#5
Bromomethane
Concen: 45.926 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 94 Resp: 67357

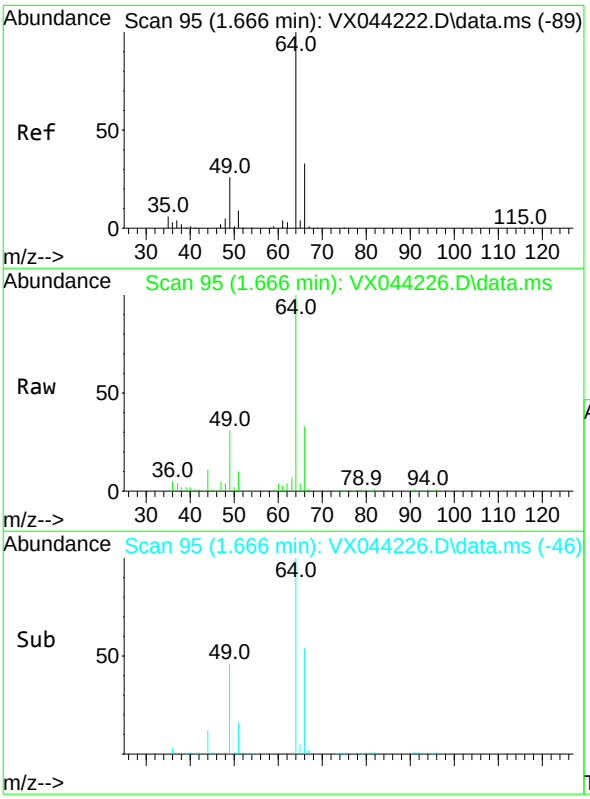
Ion	Ratio	Lower	Upper
94	100		
96	94.2	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

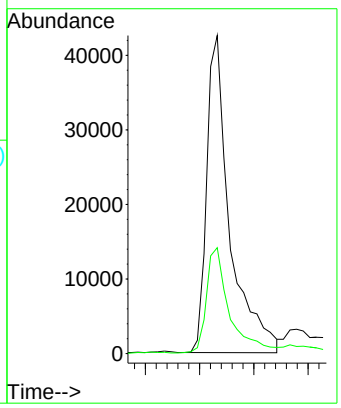
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

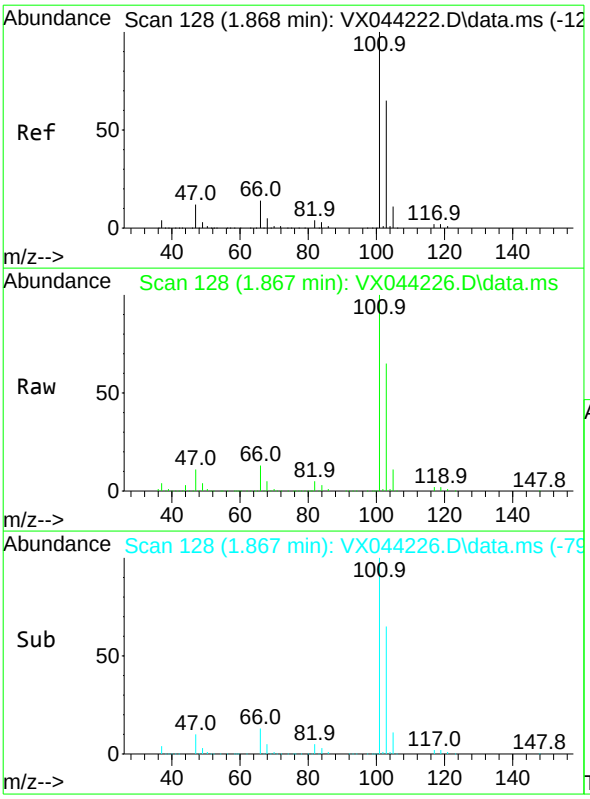


#6
Chloroethane
Concen: 48.801 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 64 Resp: 62821

Ion	Ratio	Lower	Upper
64	100		
66	33.2	26.6	39.8

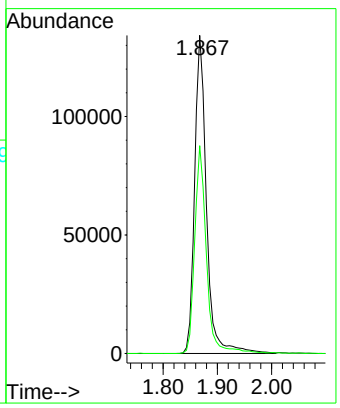




#7
Trichlorofluoromethane
Concen: 50.311 ug/l
RT: 1.867 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:101 Resp: 203619

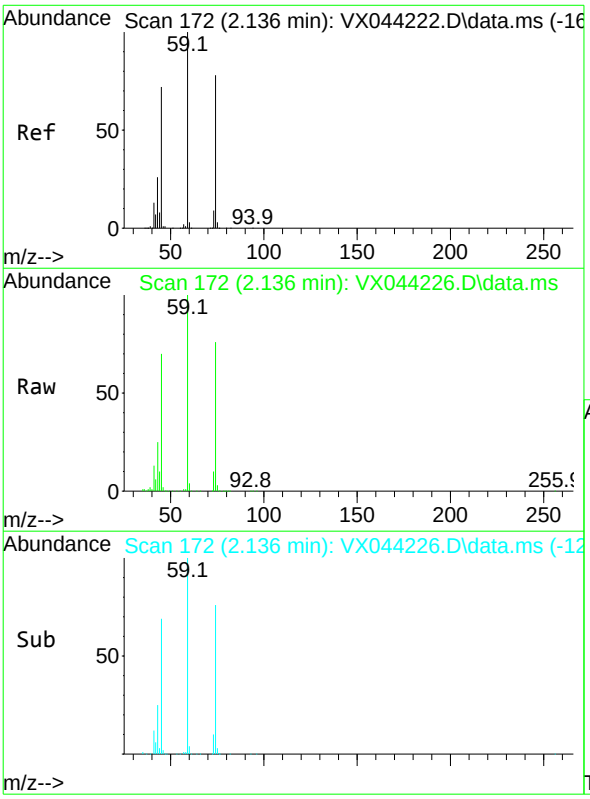
Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

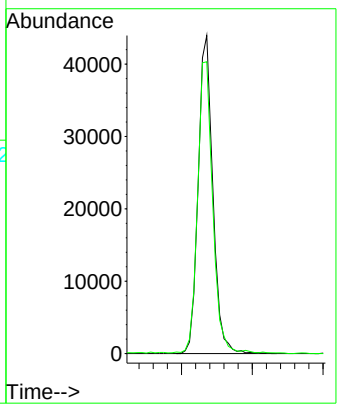
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

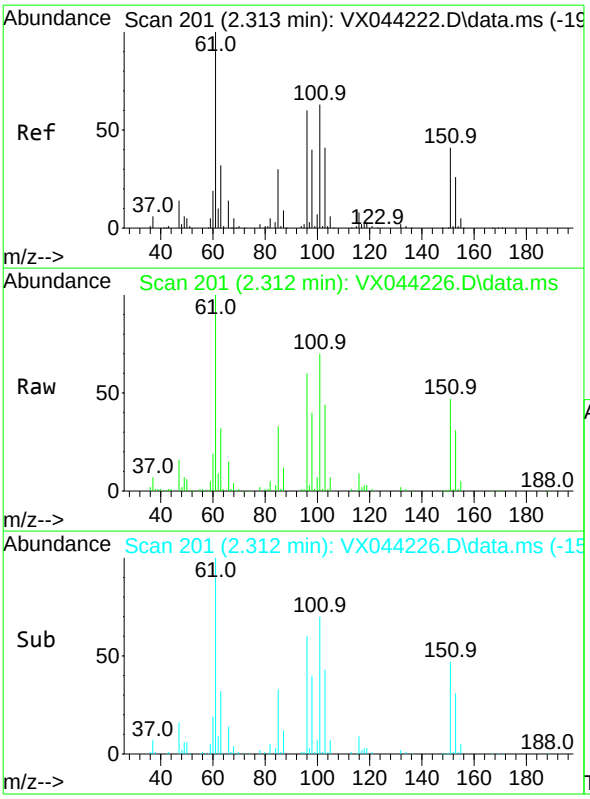


#8
Diethyl Ether
Concen: 45.658 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 74 Resp: 63075

Ion	Ratio	Lower	Upper
74	100		
45	94.4	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.374 ug/l
RT: 2.312 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

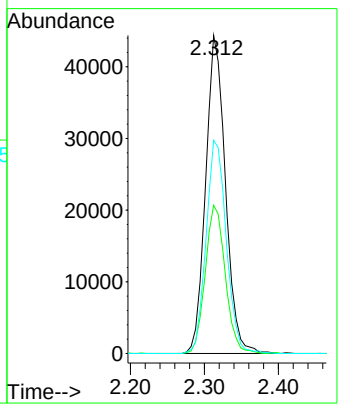
Tgt Ion:101 Resp: 82498

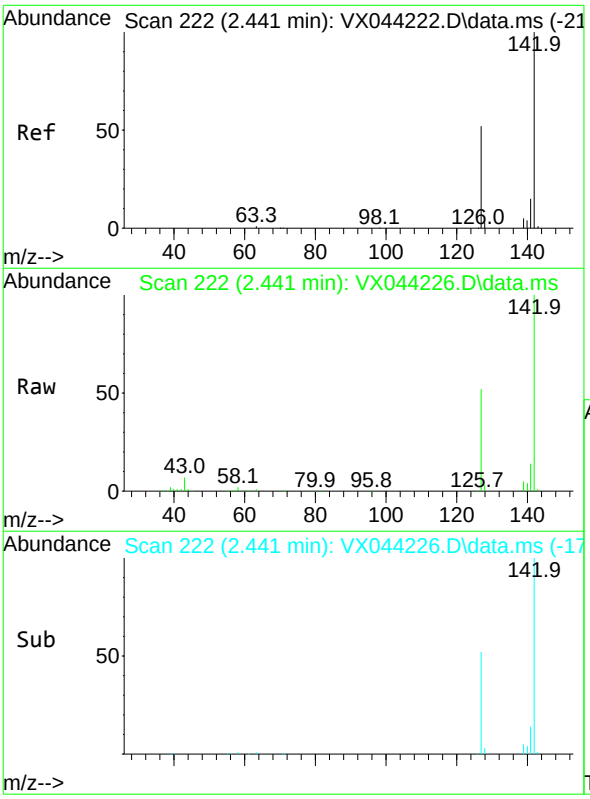
Ion	Ratio	Lower	Upper
101	100		
85	47.1	38.5	57.7
151	68.6	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

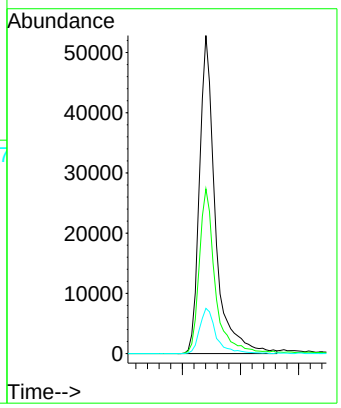


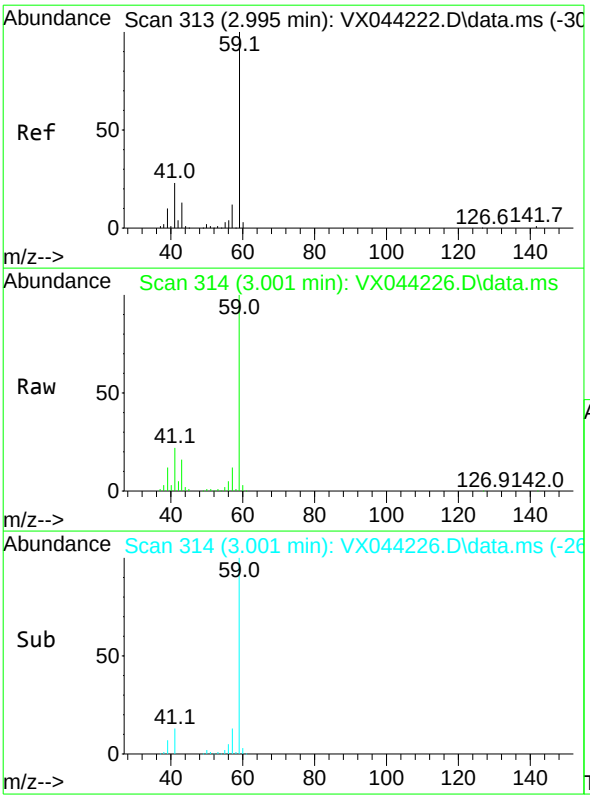


#10
Methyl Iodide
Concen: 46.349 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:142 Resp: 100043

Ion	Ratio	Lower	Upper
142	100		
127	52.3	41.8	62.8
141	14.8	11.5	17.3

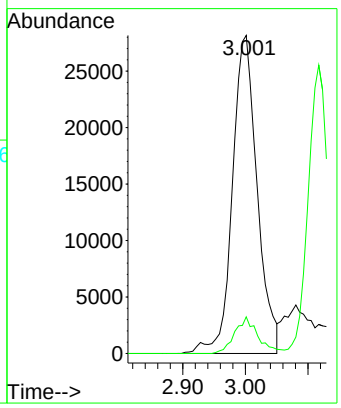




#11
Tert butyl alcohol
Concen: 233.680 ug/l
RT: 3.001 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 59 Resp: 77494

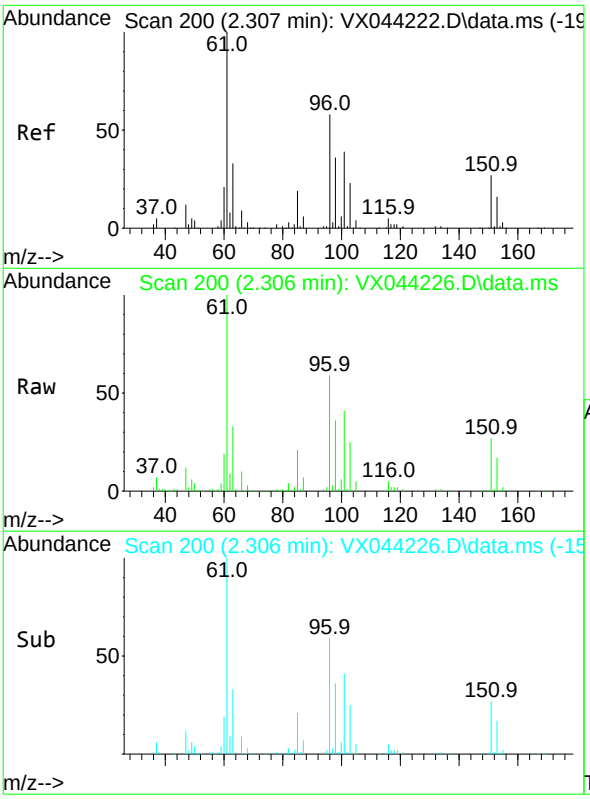
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

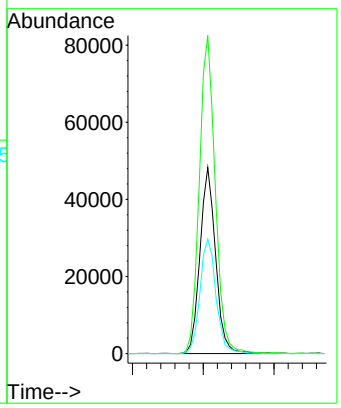
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

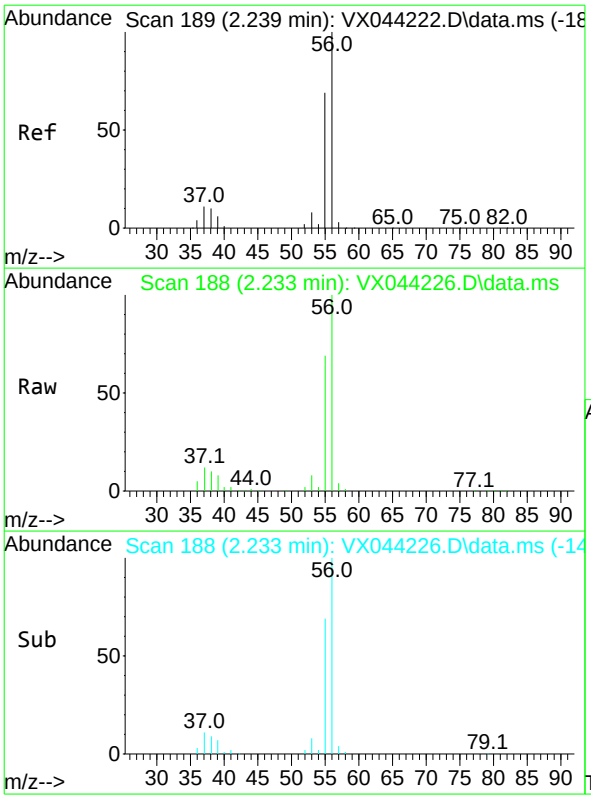


#12
1,1-Dichloroethene
Concen: 49.311 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 96 Resp: 74177

Ion	Ratio	Lower	Upper
96	100		
61	170.9	138.0	207.0
98	61.6	50.0	75.0

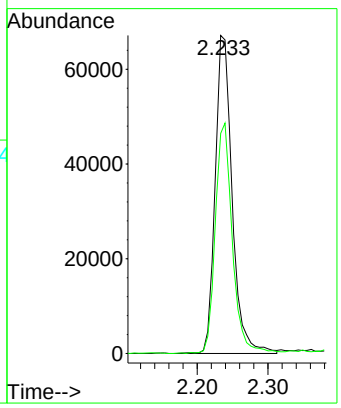




#13
Acrolein
Concen: 233.162 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 56 Resp: 111927

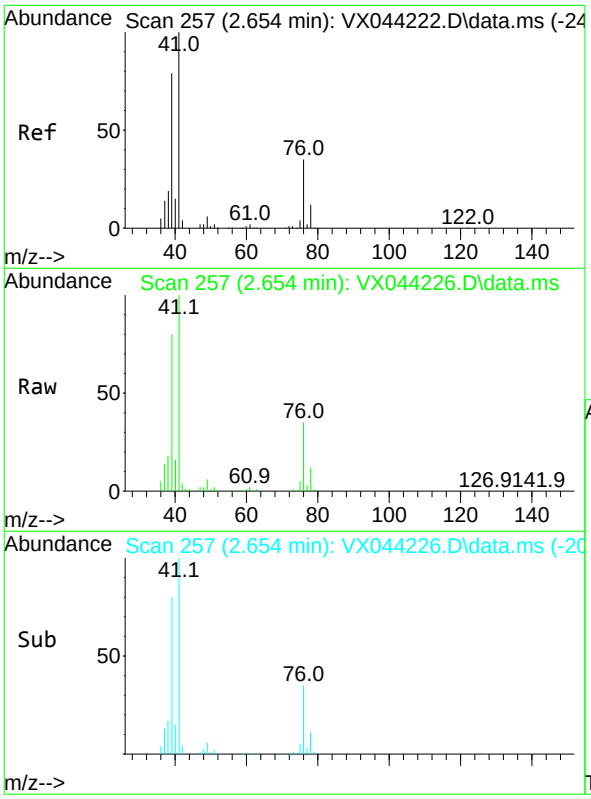
Ion	Ratio	Lower	Upper
56	100		
55	72.8	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

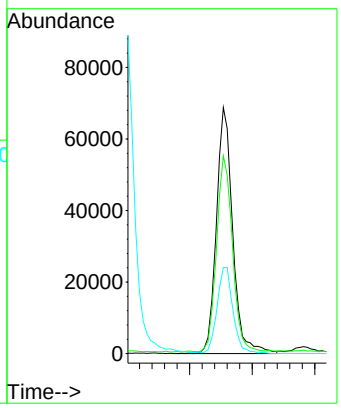
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

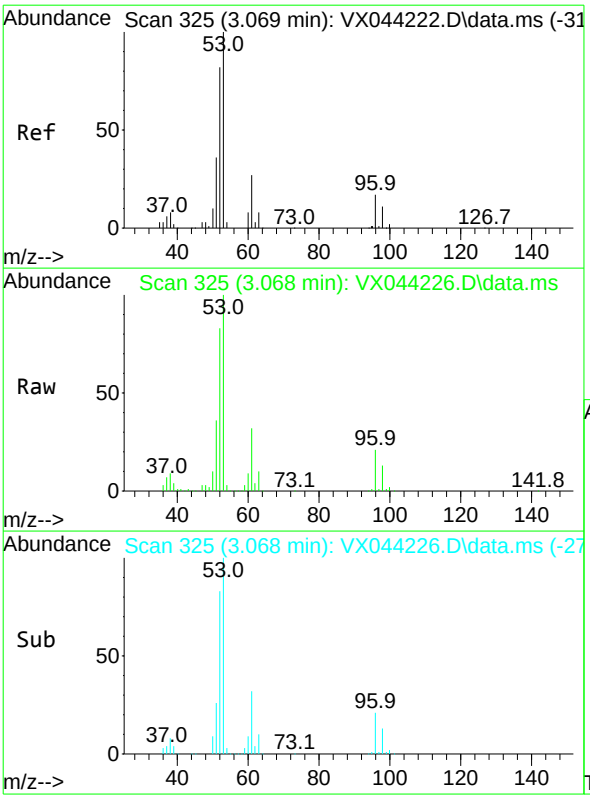


#14
Allyl chloride
Concen: 49.744 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 41 Resp: 124635

Ion	Ratio	Lower	Upper
41	100		
39	77.3	61.9	92.9
76	34.4	27.4	41.2





#15
Acrylonitrile
Concen: 240.620 ug/l
RT: 3.068 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

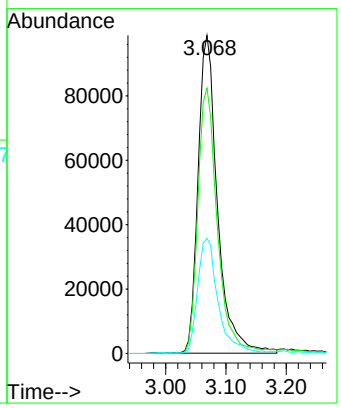
Tgt Ion: 53 Resp: 221037

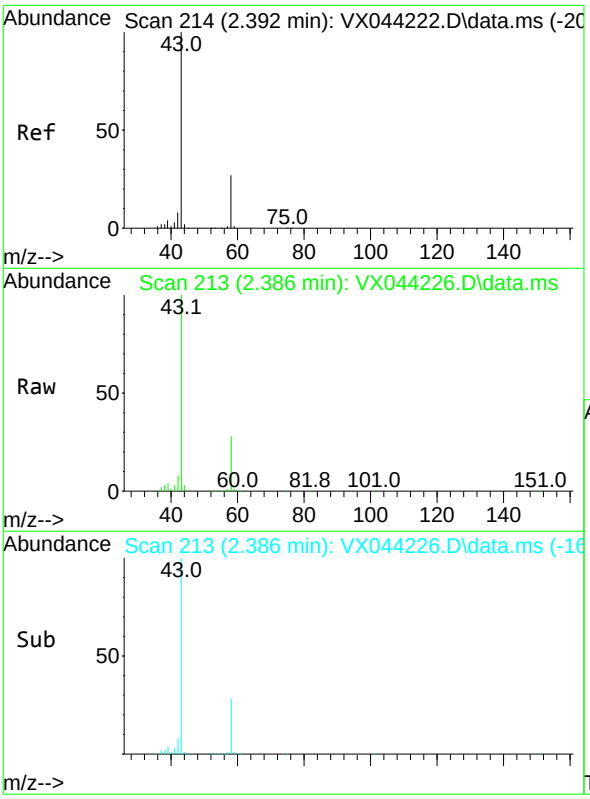
Ion	Ratio	Lower	Upper
53	100		
52	84.3	67.4	101.0
51	37.6	30.3	45.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

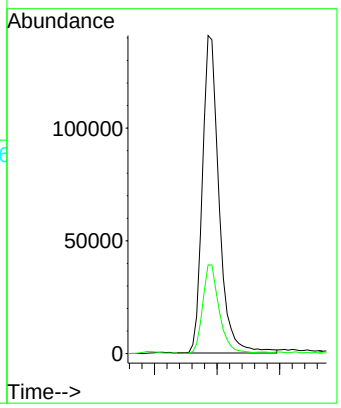


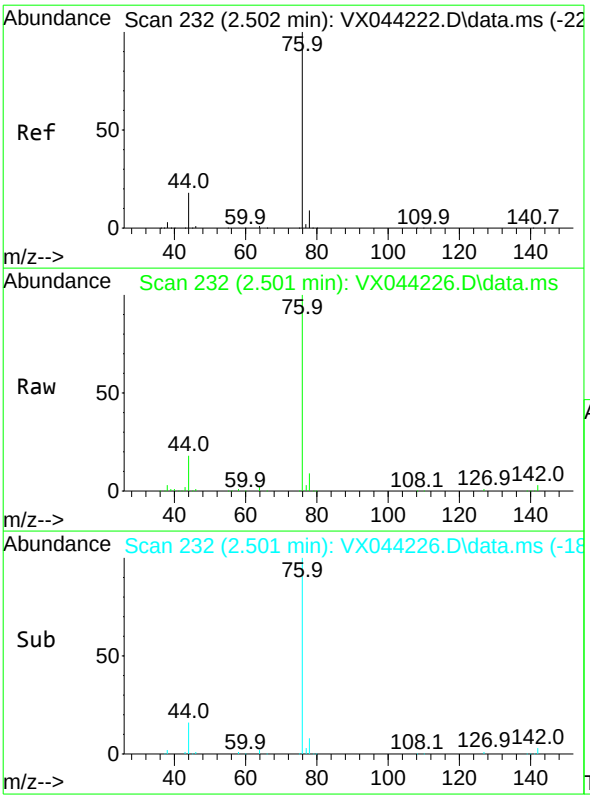


#16
Acetone
Concen: 271.312 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 260267

Ion	Ratio	Lower	Upper
43	100		
58	27.8	21.6	32.4

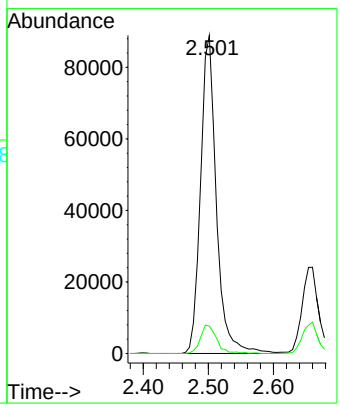




#17
Carbon Disulfide
Concen: 52.397 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 76 Resp: 149824

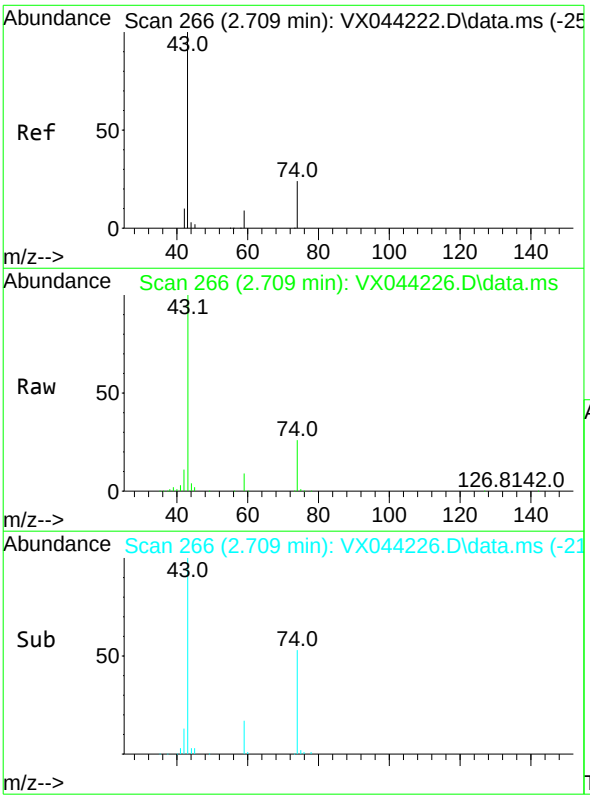
Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

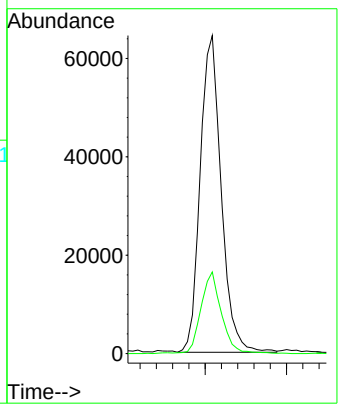
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

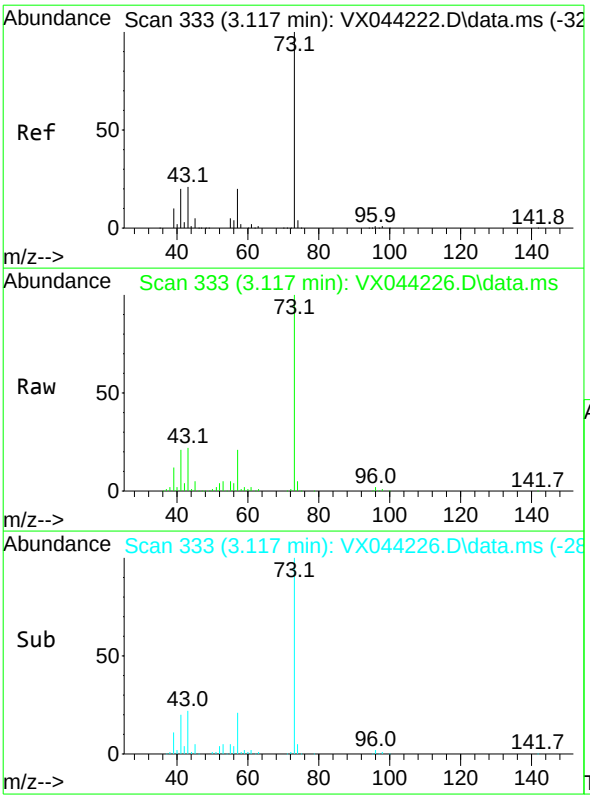


#18
Methyl Acetate
Concen: 46.725 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 115569

Ion	Ratio	Lower	Upper
43	100		
74	25.3	17.7	26.5





#19
Methyl tert-butyl Ether
Concen: 47.940 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

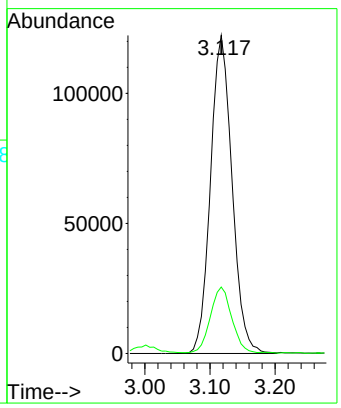
Tgt Ion: 73 Resp: 281413

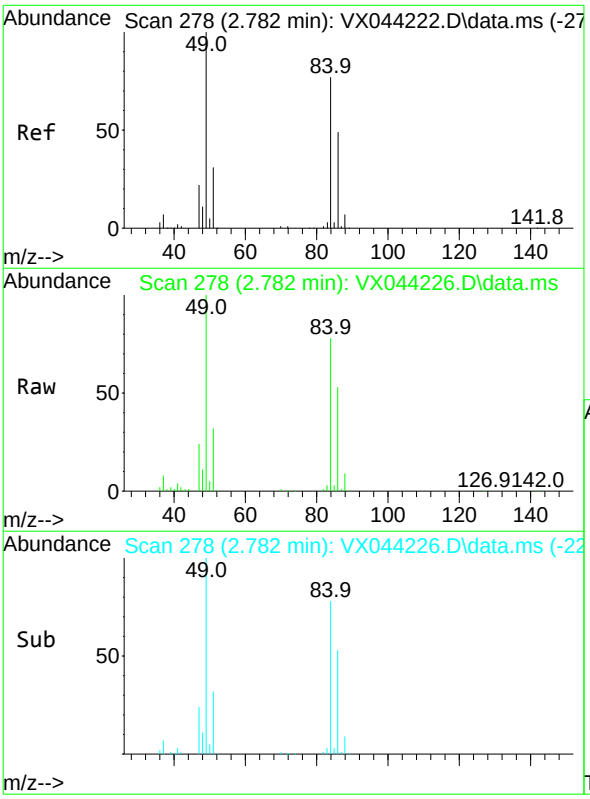
Ion	Ratio	Lower	Upper
73	100		
57	20.8	16.2	24.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

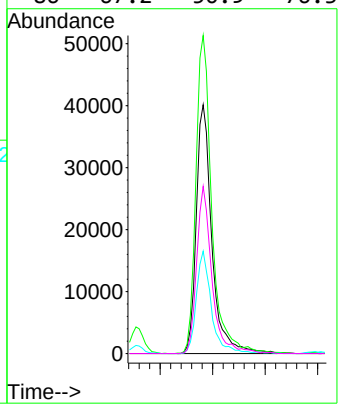


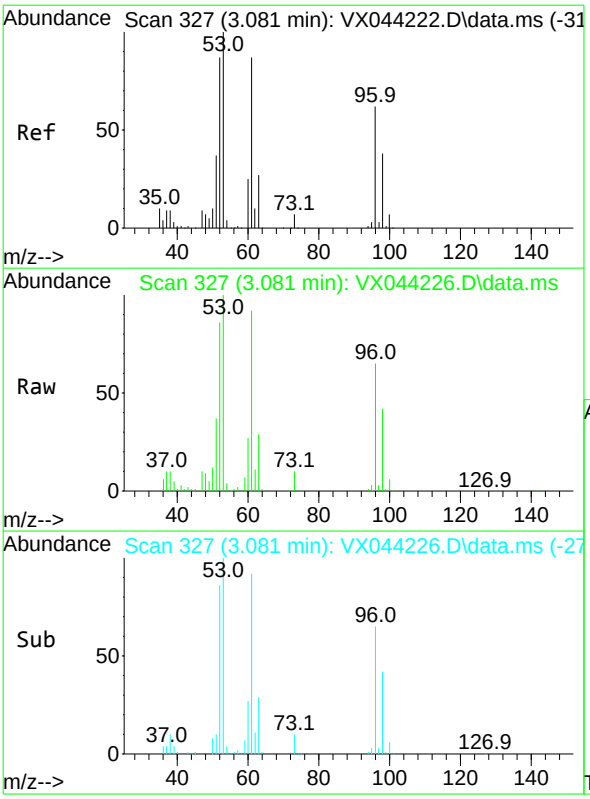


#20
Methylene Chloride
Concen: 46.170 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 84 Resp: 83188

Ion	Ratio	Lower	Upper
84	100		
49	127.6	104.2	156.4
51	41.1	32.2	48.4
86	67.2	50.9	76.3

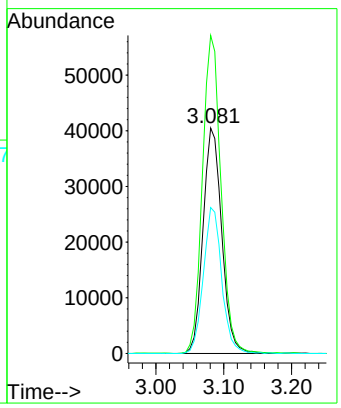




#21
trans-1,2-Dichloroethene
Concen: 48.459 ug/l
RT: 3.081 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 96 Resp: 77471

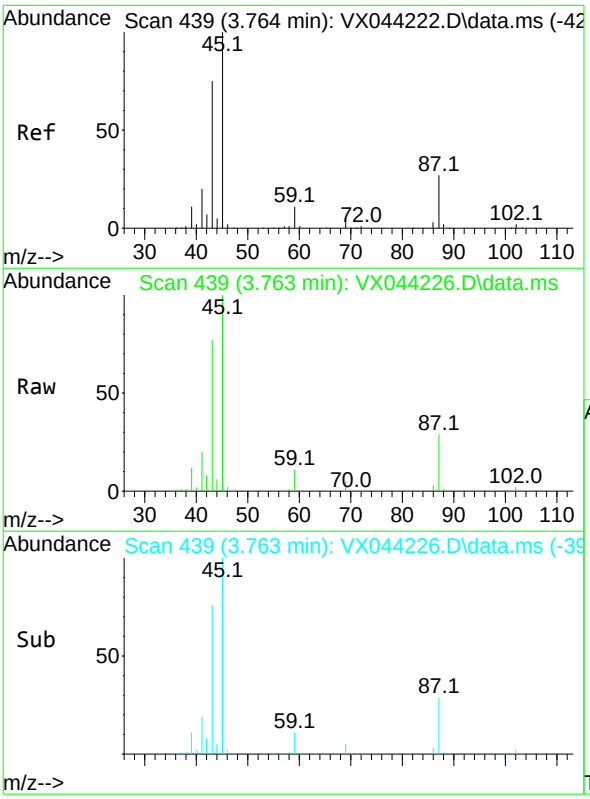
Ion	Ratio	Lower	Upper
96	100		
61	141.0	112.0	168.0
98	64.7	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

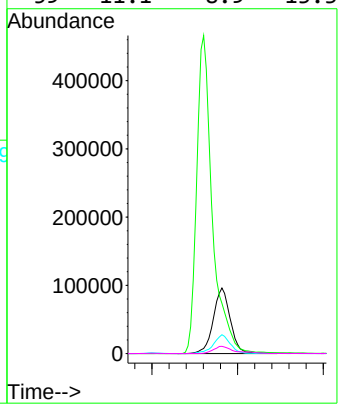
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

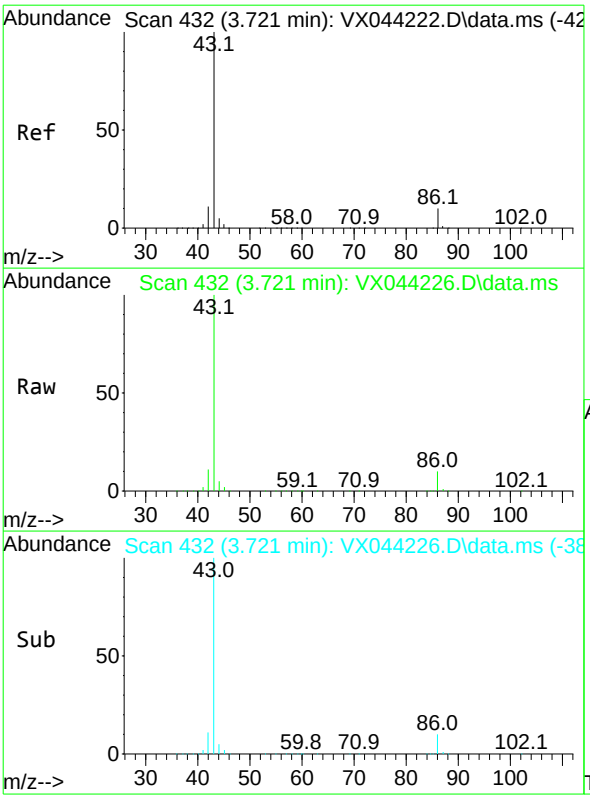


#22
Diisopropyl ether
Concen: 46.922 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 45 Resp: 264732

Ion	Ratio	Lower	Upper
45	100		
43	76.6	60.2	90.2
87	28.8	21.2	31.8
59	11.1	8.9	13.3

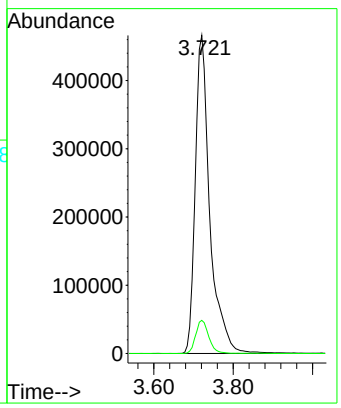




#23
Vinyl Acetate
Concen: 258.510 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 1185779

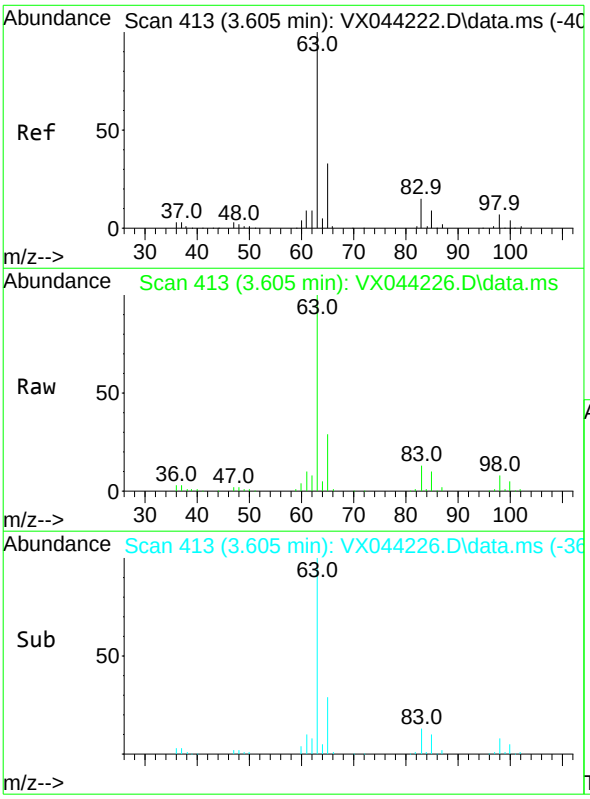
Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

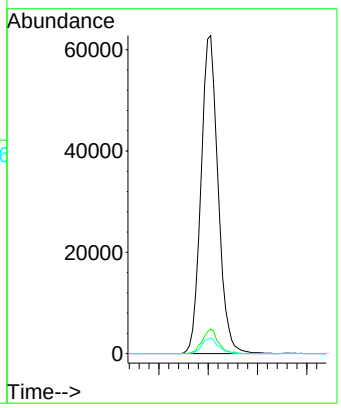
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

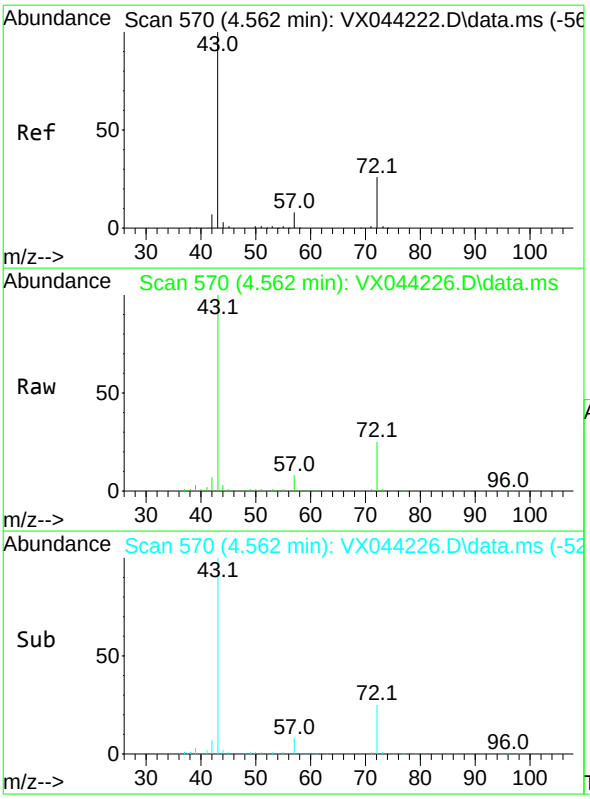


#24
1,1-Dichloroethane
Concen: 48.056 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 63 Resp: 151134

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.6	10.8
100	4.8	2.1	6.3

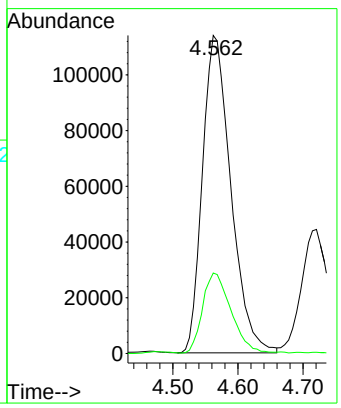




#25
2-Butanone
Concen: 253.747 ug/l
RT: 4.562 min Scan# 57
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 346052

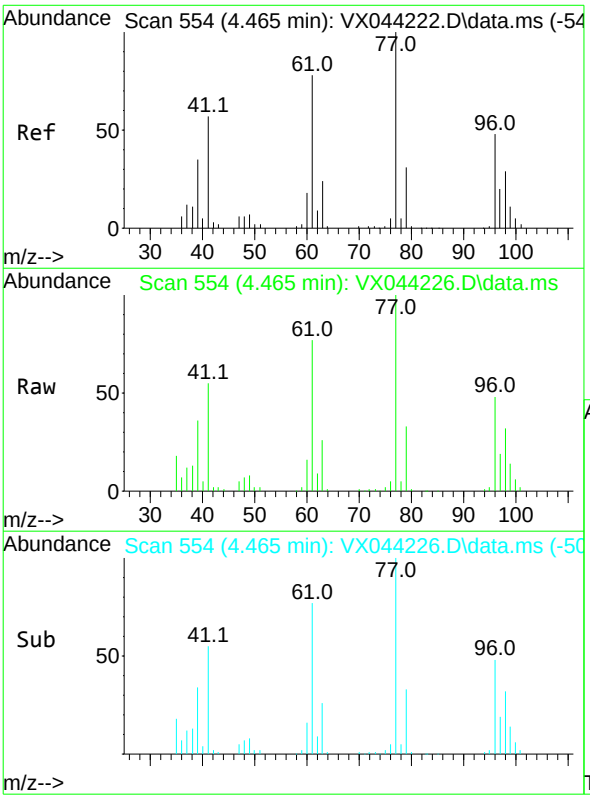
Ion	Ratio	Lower	Upper
43	100		
72	25.2	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

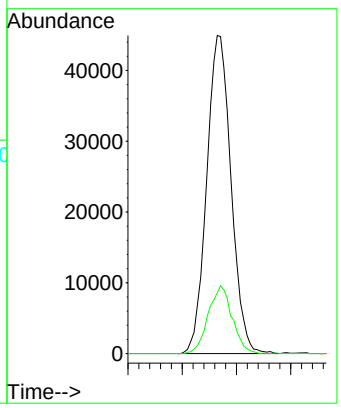
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

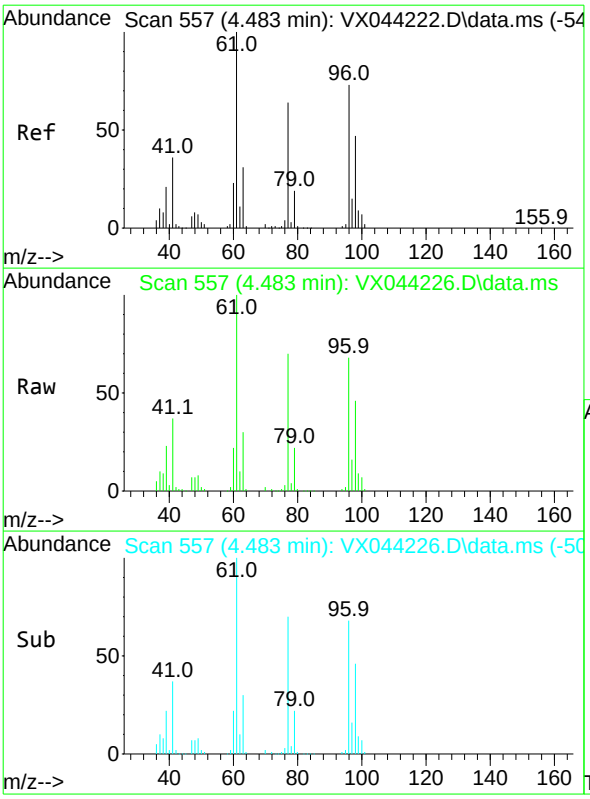


#26
2,2-Dichloropropane
Concen: 54.872 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 77 Resp: 140196

Ion	Ratio	Lower	Upper
77	100		
97	20.8	10.7	32.1

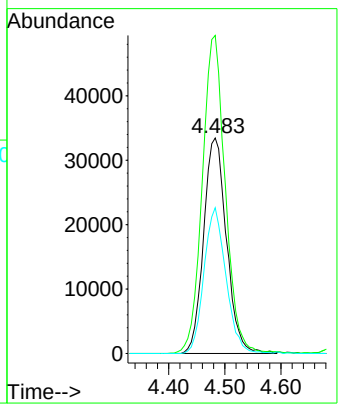




#27
cis-1,2-Dichloroethene
Concen: 46.709 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 96 Resp: 94838

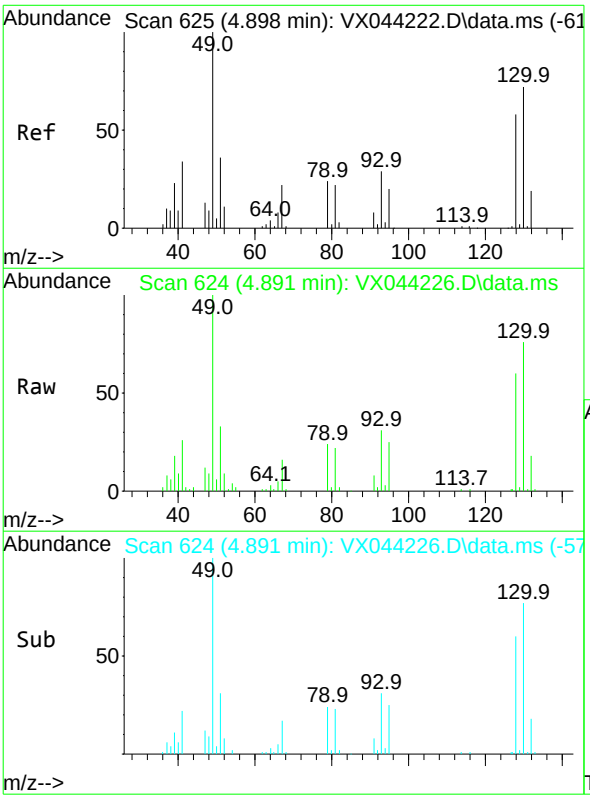
Ion	Ratio	Lower	Upper
96	100		
61	147.7	0.0	299.0
98	64.9	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

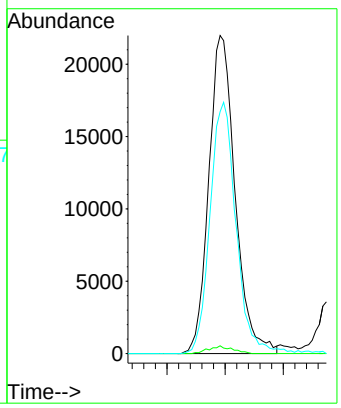
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

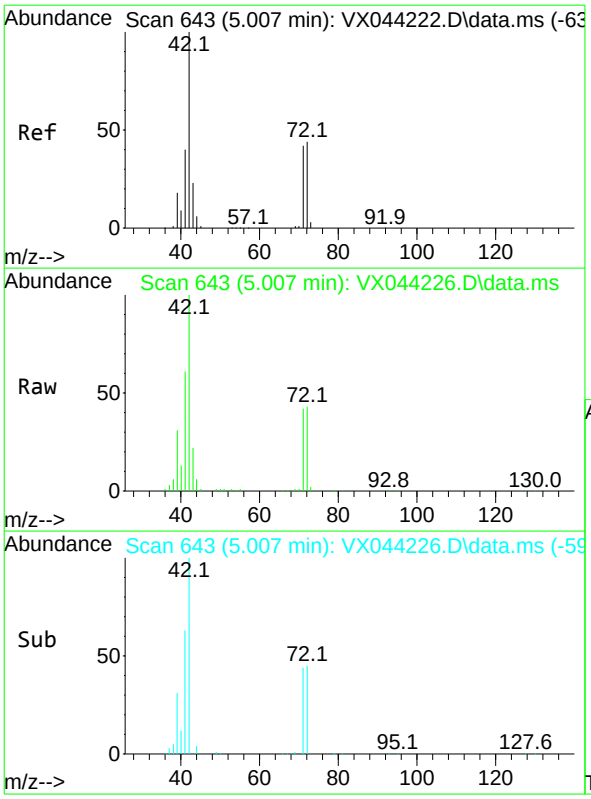


#28
Bromochloromethane
Concen: 44.832 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 49 Resp: 69139

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	78.1	62.1	93.1

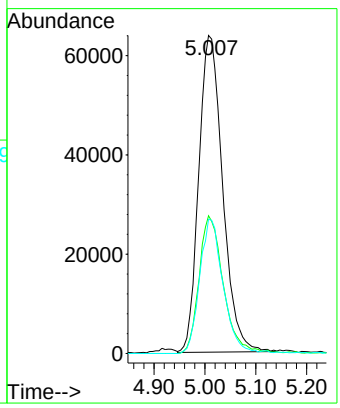




#29
Tetrahydrofuran
Concen: 238.031 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 42 Resp: 208362

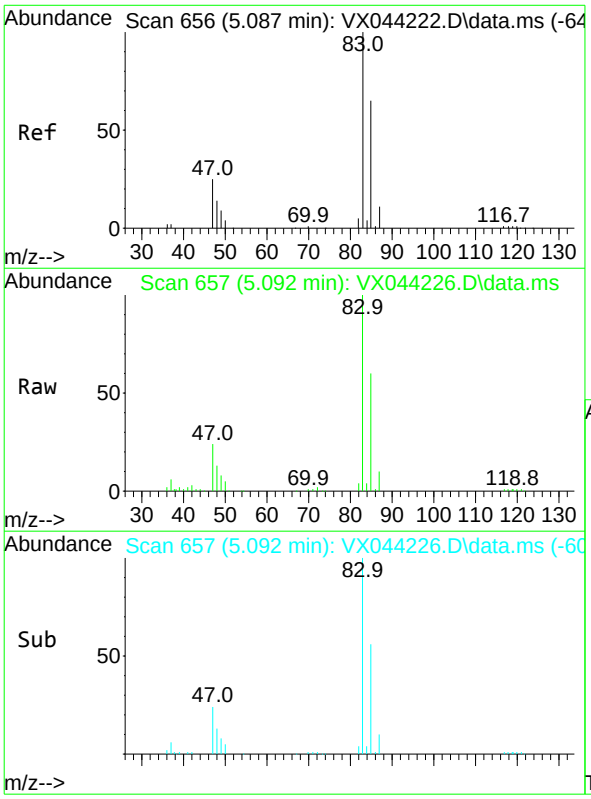
Ion	Ratio	Lower	Upper
42	100		
72	44.2	37.0	55.6
71	41.5	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

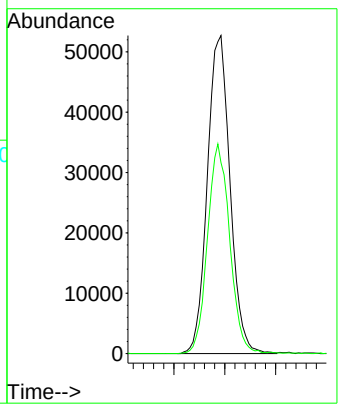
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

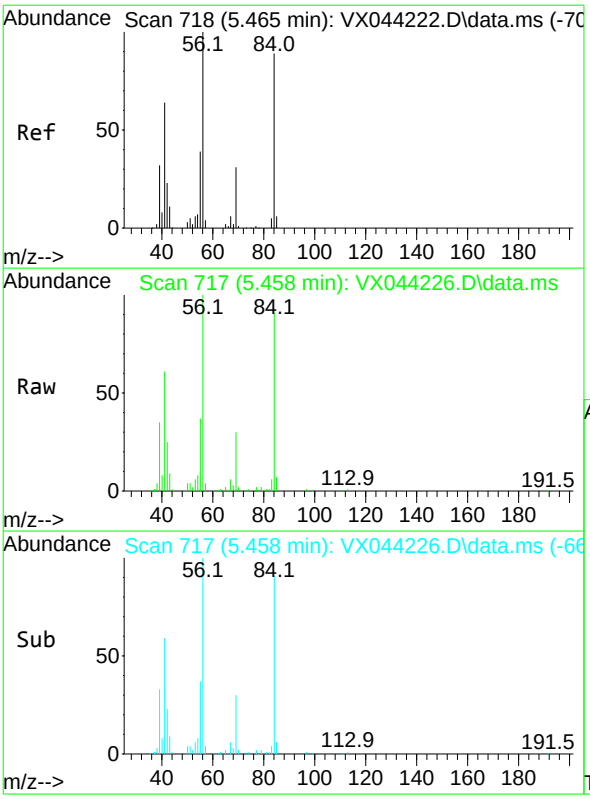


#30
Chloroform
Concen: 46.235 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 83 Resp: 163372

Ion	Ratio	Lower	Upper
83	100		
85	60.0	51.6	77.4

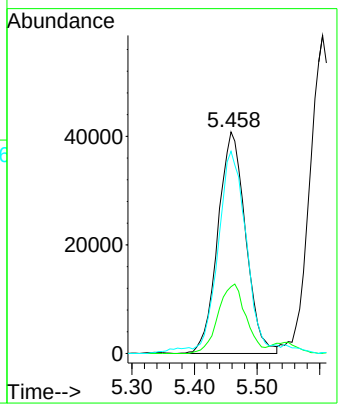




#31
Cyclohexane
Concen: 49.443 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 56 Resp: 125567

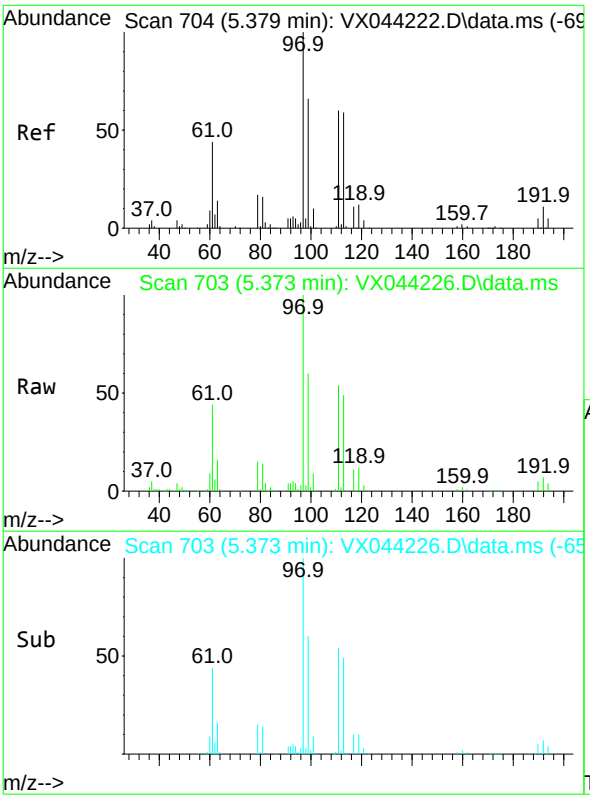
Ion	Ratio	Lower	Upper
56	100		
69	30.2	24.7	37.1
84	88.8	71.0	106.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

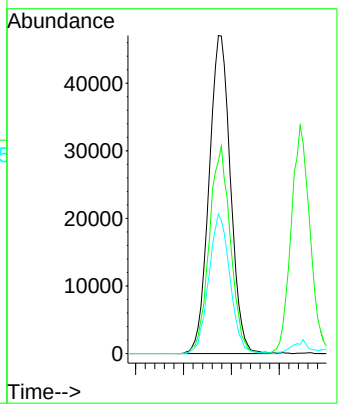
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

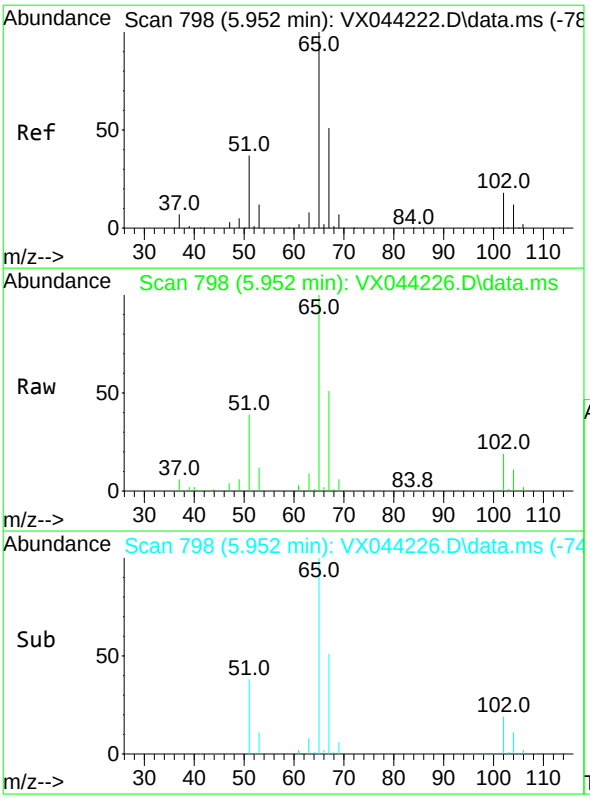


#32
1,1,1-Trichloroethane
Concen: 49.895 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 97 Resp: 146348

Ion	Ratio	Lower	Upper
97	100		
99	64.2	50.8	76.2
61	43.3	35.2	52.8

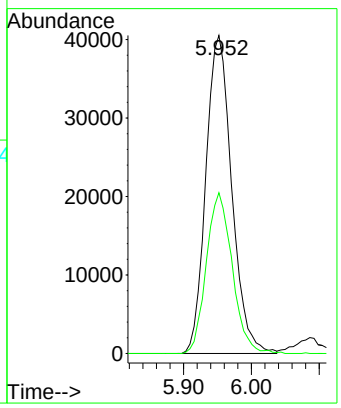




#33
1,2-Dichloroethane-d4
Concen: 45.646 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 65 Resp: 107407

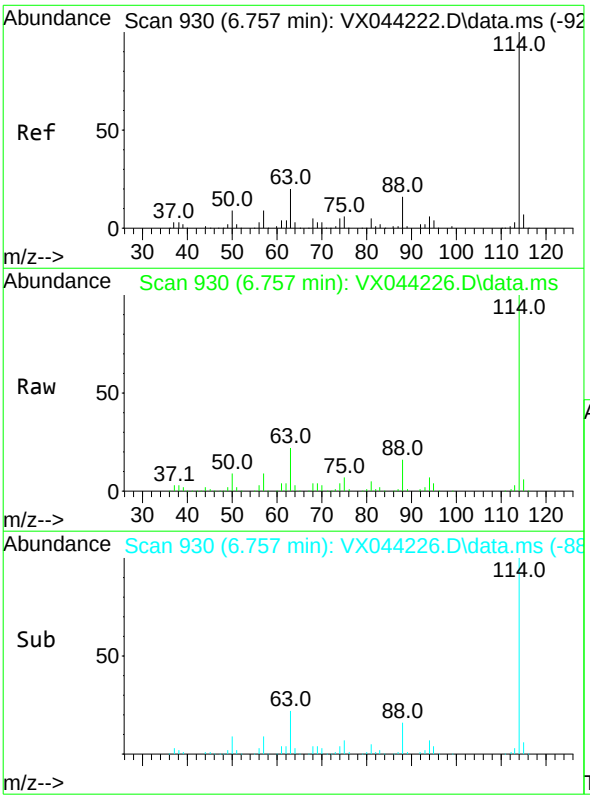
Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

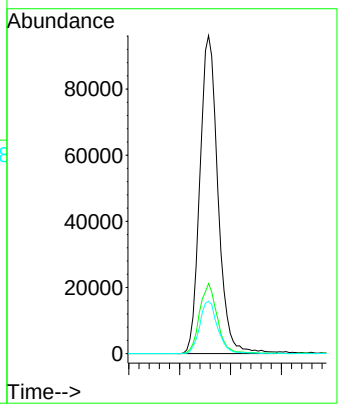
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

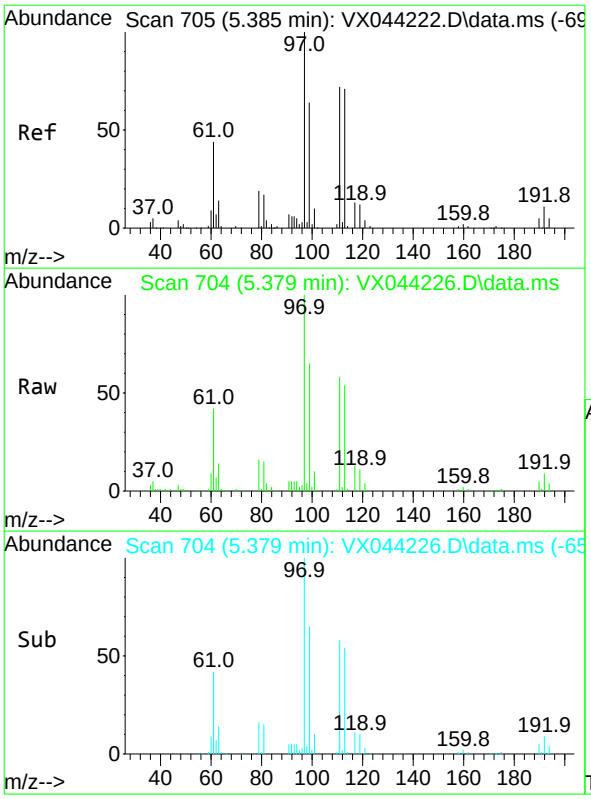


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:114 Resp: 237295

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	40.6
88	16.4	0.0	31.8

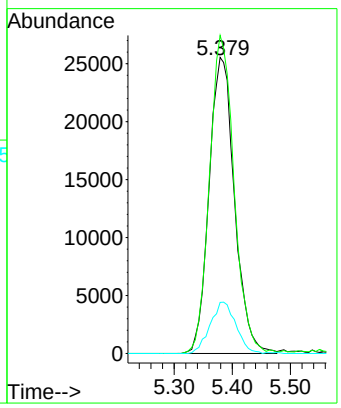




#35
Dibromofluoromethane
Concen: 47.228 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:113 Resp: 77619

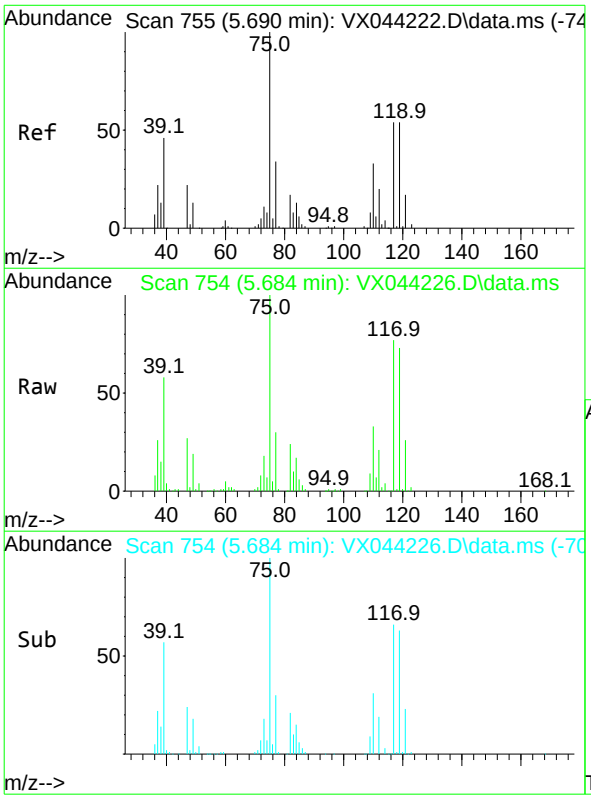
Ion	Ratio	Lower	Upper
113	100		
111	103.8	80.4	120.6
192	17.5	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

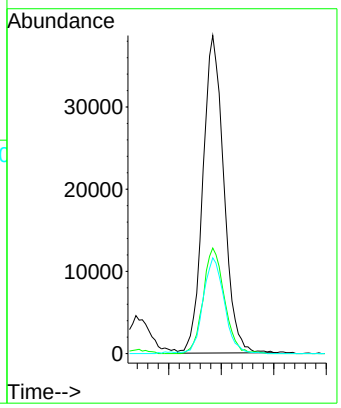
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

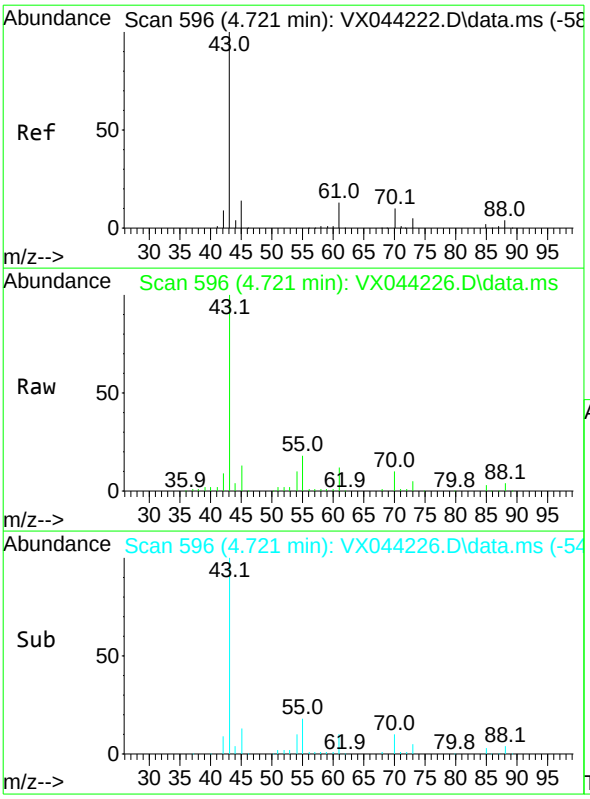


#36
1,1-Dichloropropene
Concen: 50.314 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 106889

Ion	Ratio	Lower	Upper
75	100		
110	33.8	17.3	51.7
77	30.5	25.4	38.0

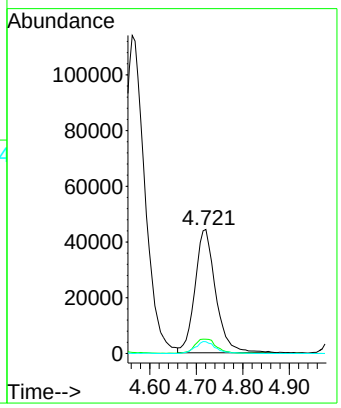




#37
Ethyl Acetate
Concen: 52.176 ug/l
RT: 4.721 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 137017

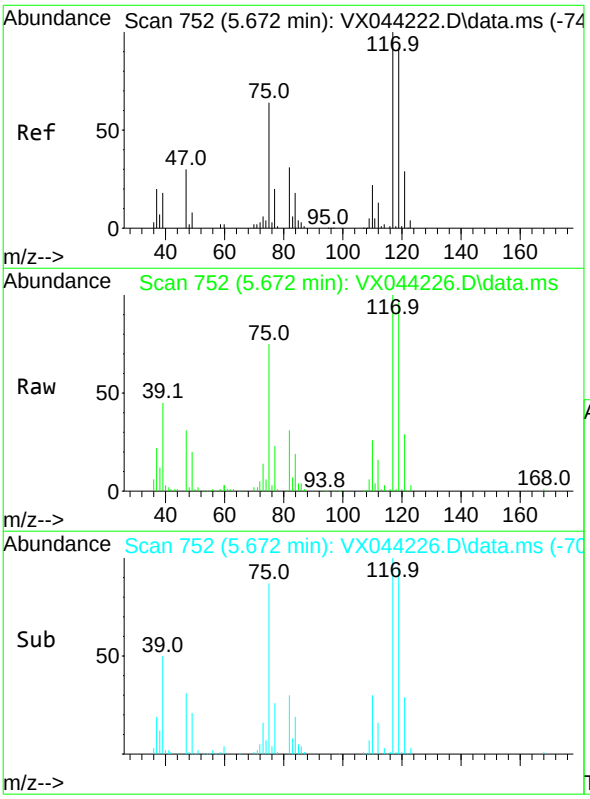
Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.8	14.8
70	9.4	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

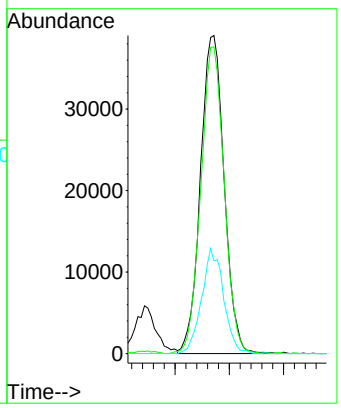
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

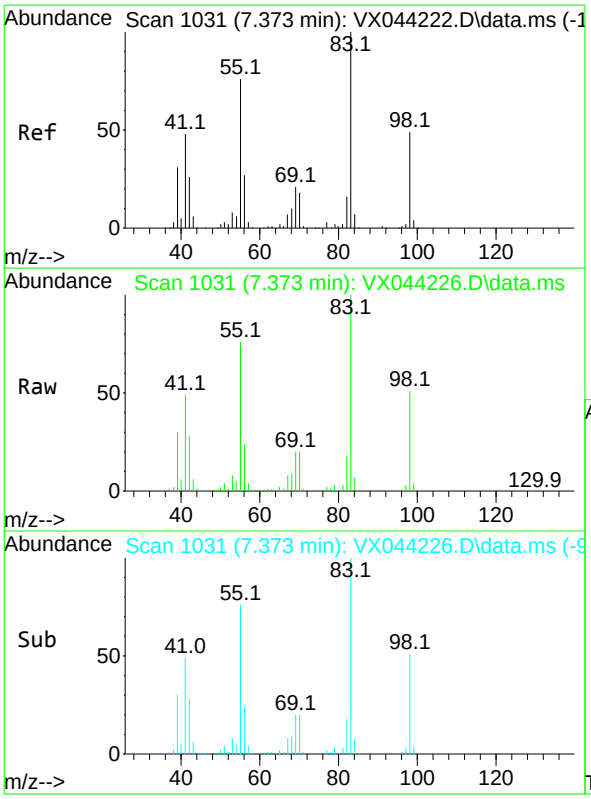


#38
Carbon Tetrachloride
Concen: 51.763 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:117 Resp: 118390

Ion	Ratio	Lower	Upper
117	100		
119	96.0	74.2	111.4
121	29.1	23.0	34.6

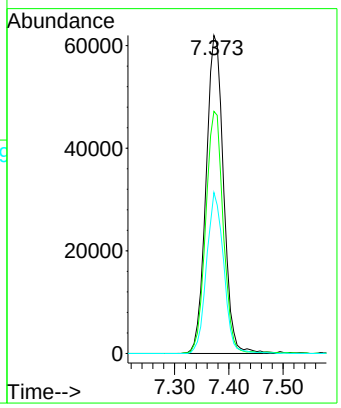




#39
Methylcyclohexane
Concen: 54.761 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 83 Resp: 139077

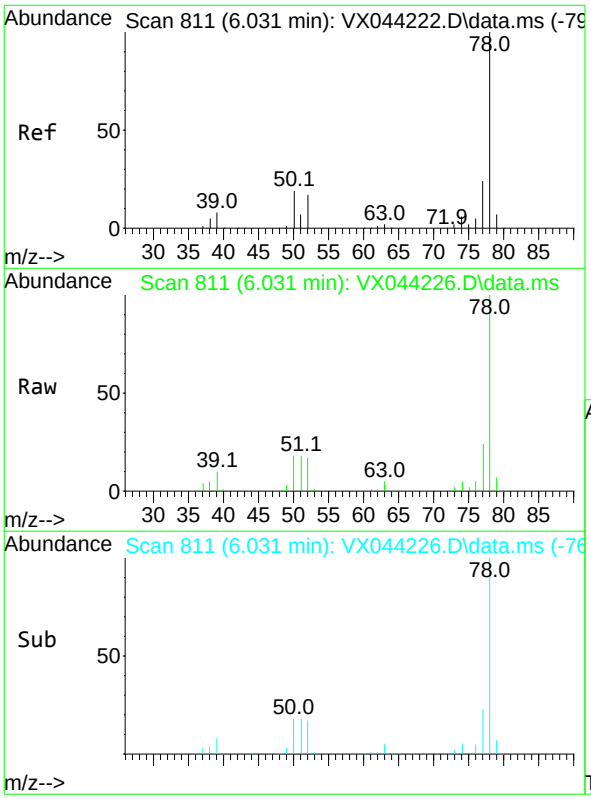
Ion	Ratio	Lower	Upper
83	100		
55	76.1	60.7	91.1
98	50.6	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

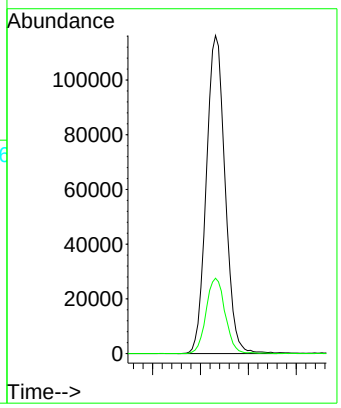
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

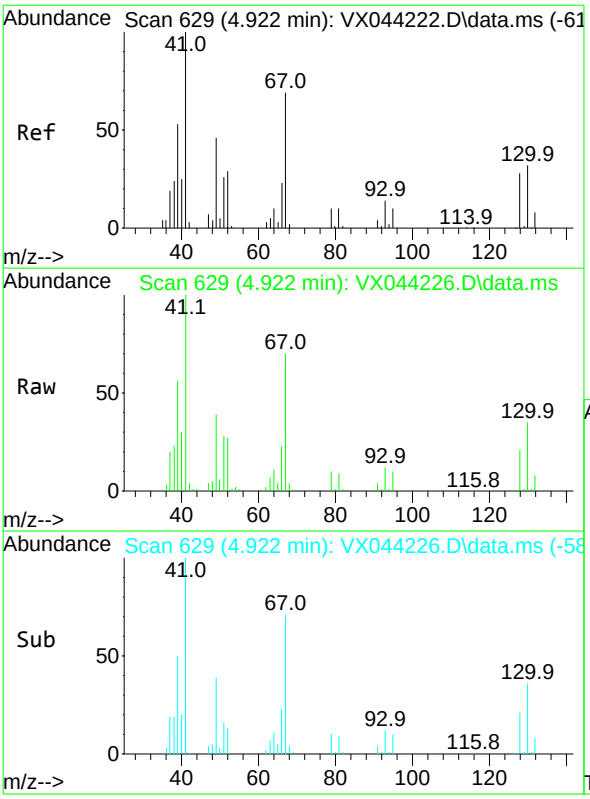


#40
Benzene
Concen: 49.052 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 78 Resp: 316391

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.3	28.9

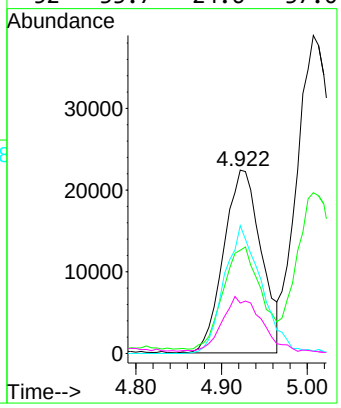




#41
Methacrylonitrile
Concen: 48.945 ug/l
RT: 4.922 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 41 Resp: 68251

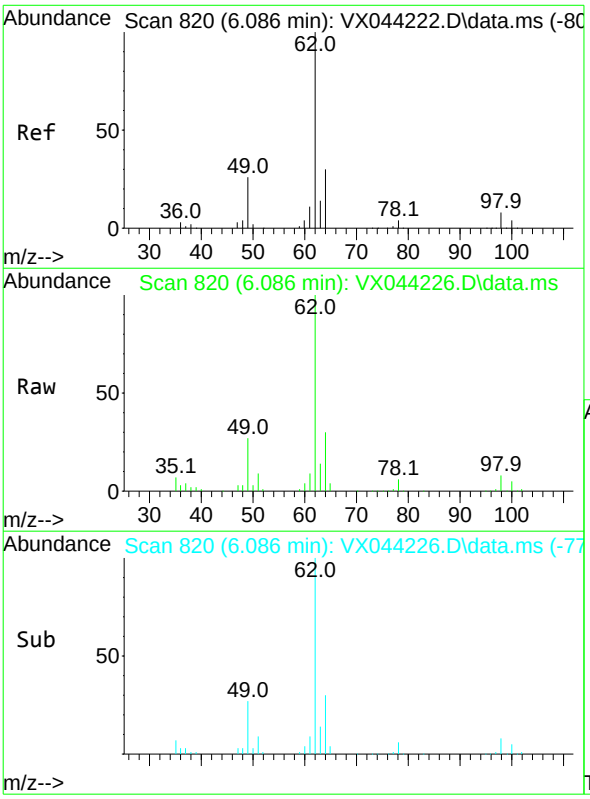
Ion	Ratio	Lower	Upper
41	100		
39	56.3	44.2	66.4
67	69.8	57.2	85.8
52	33.7	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

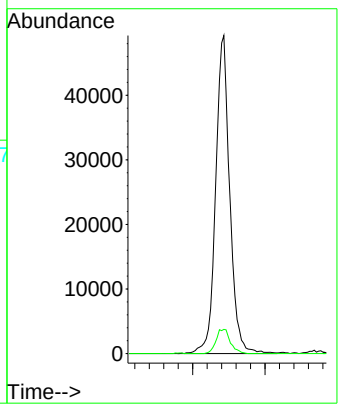
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

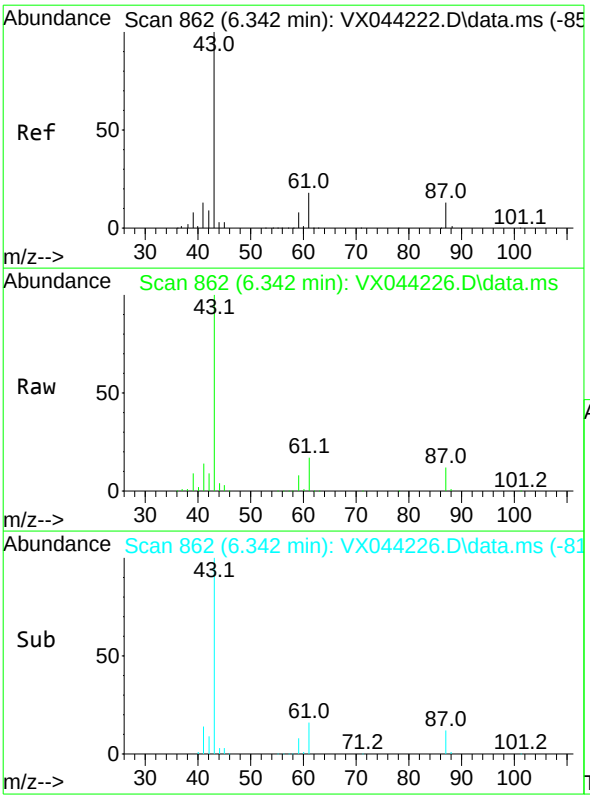


#42
1,2-Dichloroethane
Concen: 49.960 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 62 Resp: 132744

Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	15.8

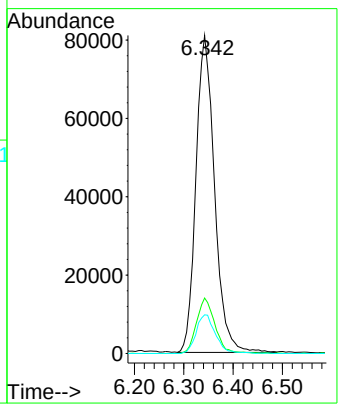




#43
Isopropyl Acetate
Concen: 51.624 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 211889

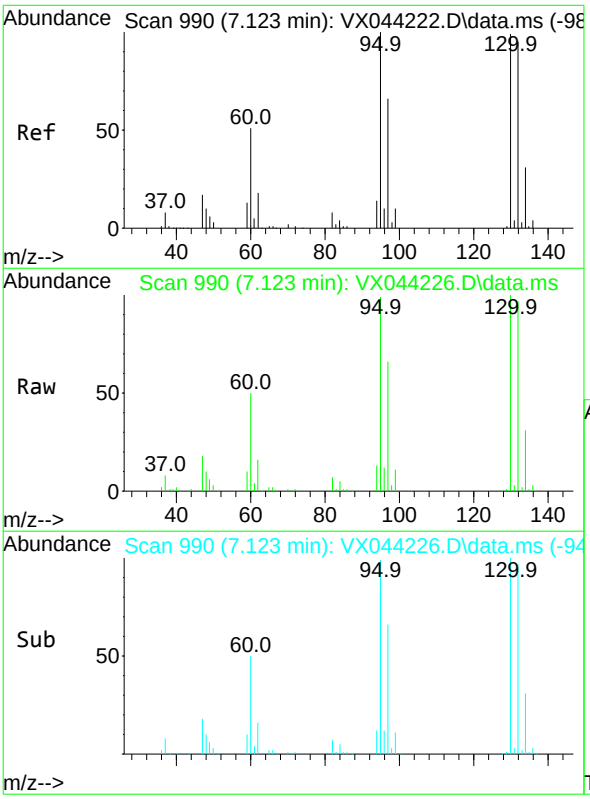
Ion	Ratio	Lower	Upper
43	100		
61	17.4	14.2	21.2
87	12.7	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

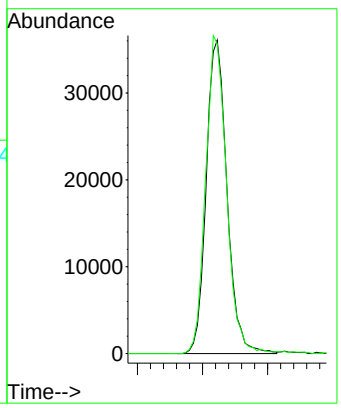
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

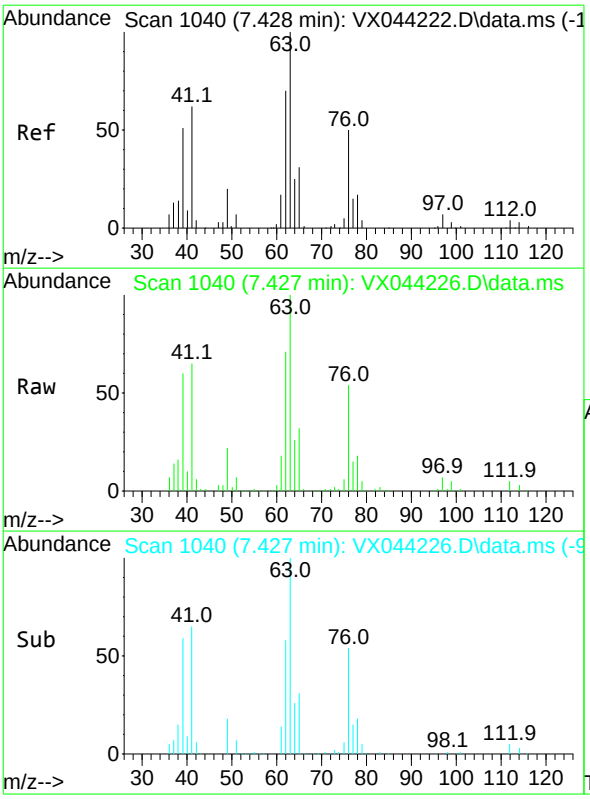


#44
Trichloroethene
Concen: 49.741 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:130 Resp: 80008

Ion	Ratio	Lower	Upper
130	100		
95	98.8	0.0	201.4

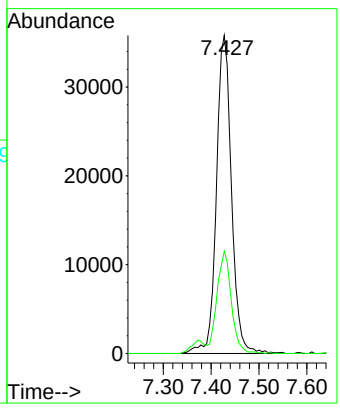




#45
1,2-Dichloropropane
Concen: 47.528 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 63 Resp: 78321

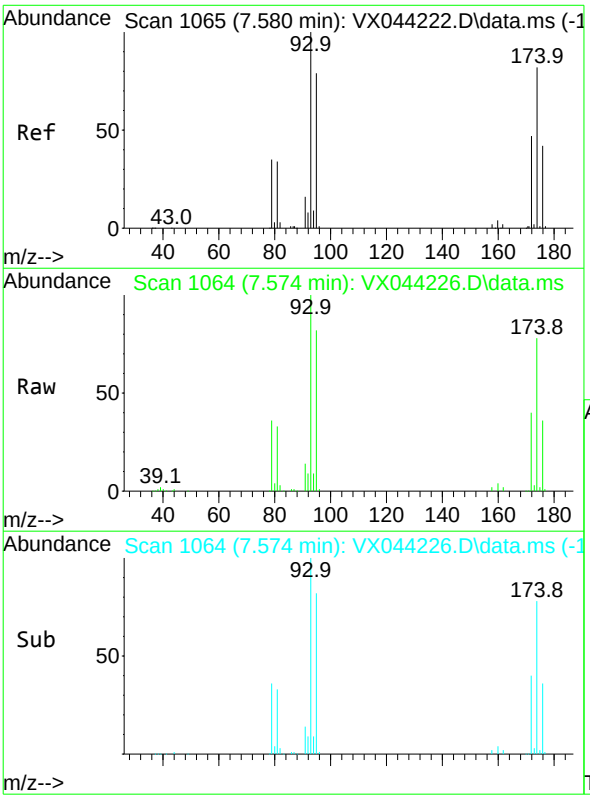
Ion	Ratio	Lower	Upper
63	100		
65	32.1	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

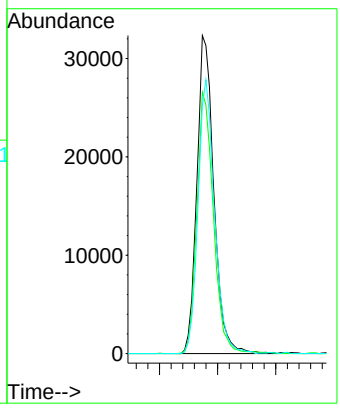
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

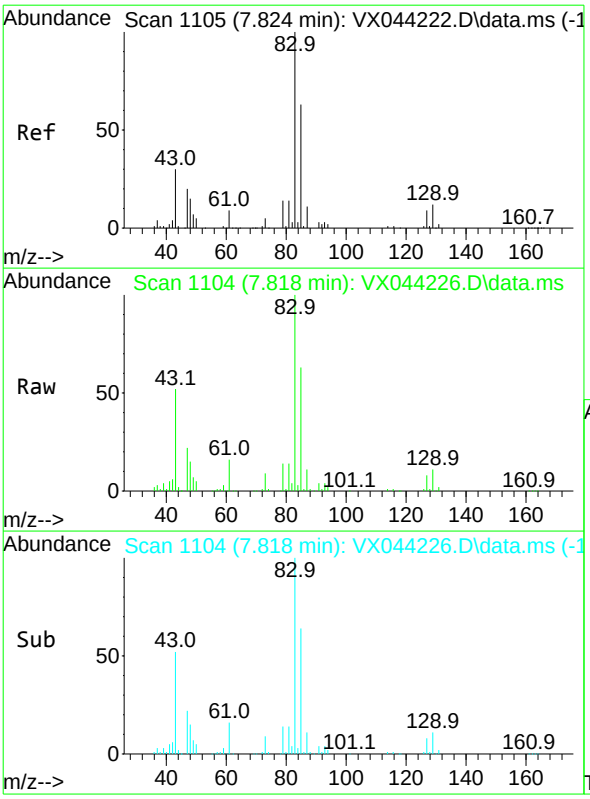


#46
Dibromomethane
Concen: 51.227 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 93 Resp: 65491

Ion	Ratio	Lower	Upper
93	100		
95	80.5	65.4	98.2
174	84.0	67.9	101.9

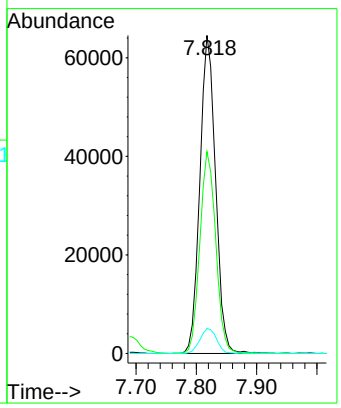




#47
Bromodichloromethane
Concen: 52.893 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 83 Resp: 116783

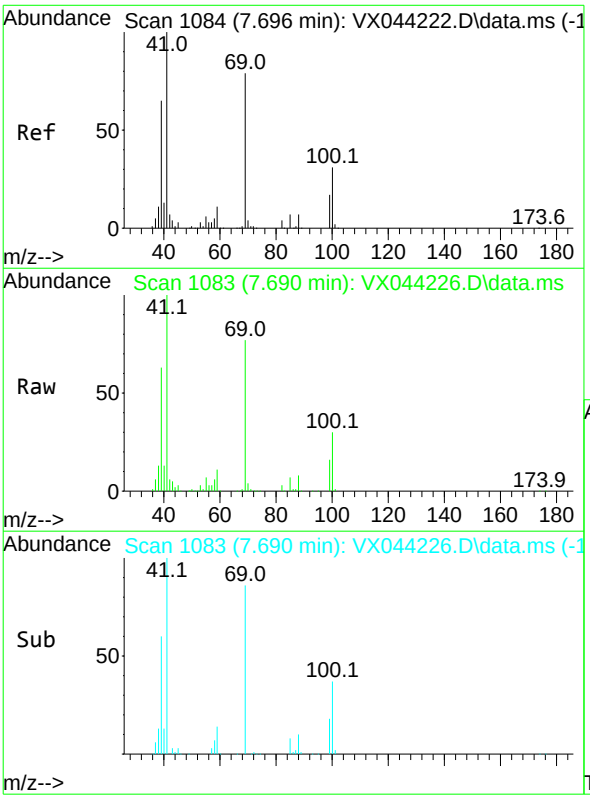
Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.6	75.8
127	7.9	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations APPROVED

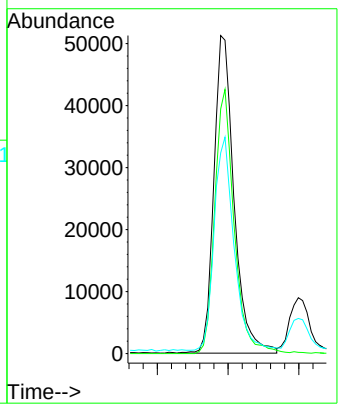
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

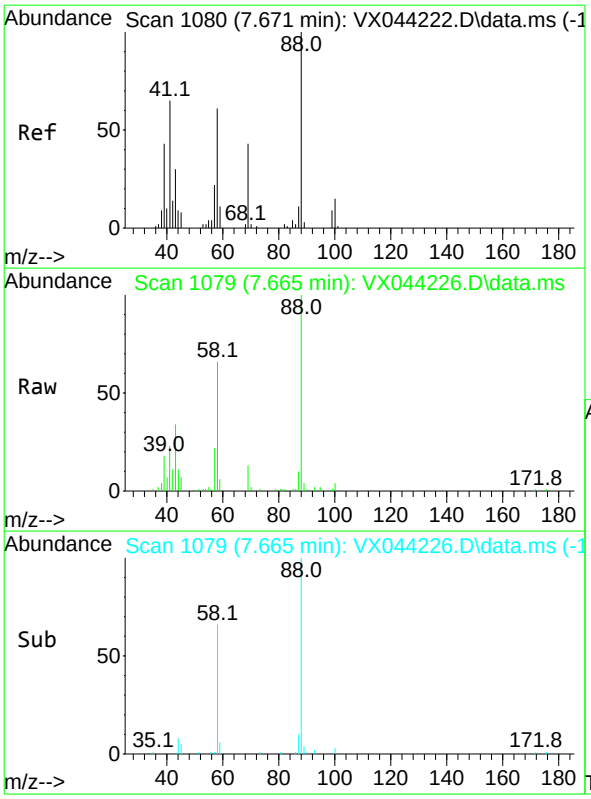


#48
Methyl methacrylate
Concen: 50.852 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 41 Resp: 101318

Ion	Ratio	Lower	Upper
41	100		
69	79.9	62.4	93.6
39	66.0	53.3	79.9





#49
1,4-Dioxane
Concen: 923.966 ug/l m
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

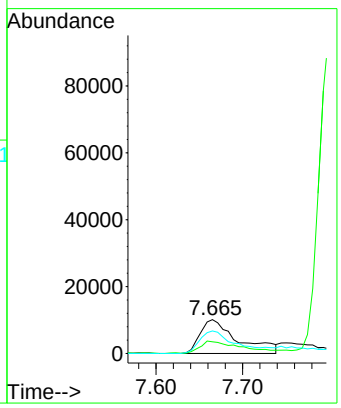
Tgt Ion: 88 Resp: 30522

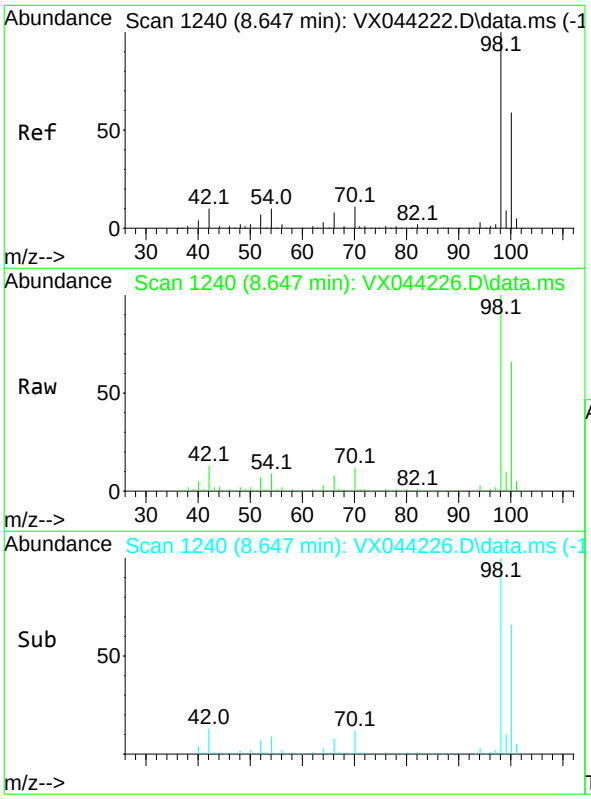
Ion	Ratio	Lower	Upper
88	100		
43	44.4	27.1	40.7#
58	60.6	41.0	61.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

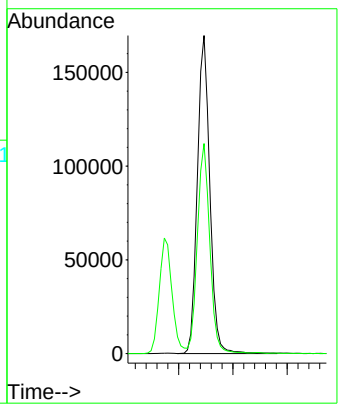


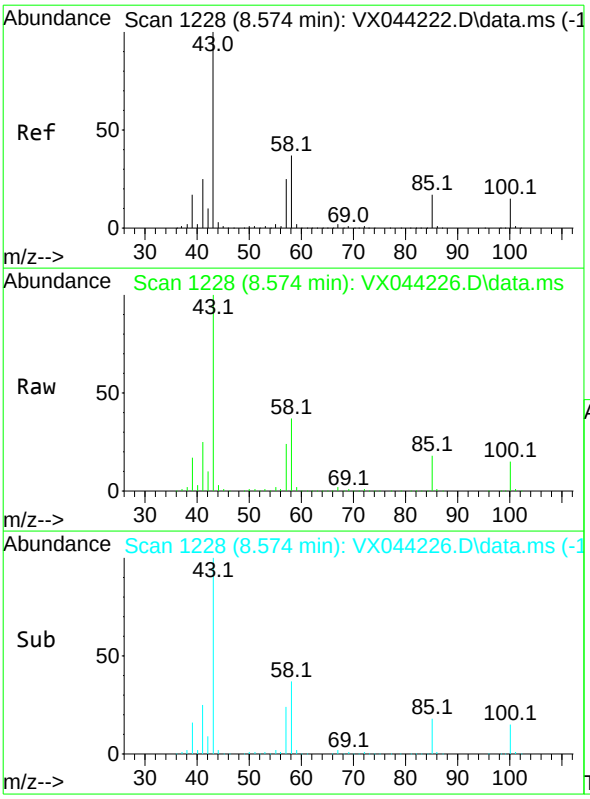


#50
Toluene-d8
Concen: 48.968 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 98 Resp: 271508

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.5	77.3

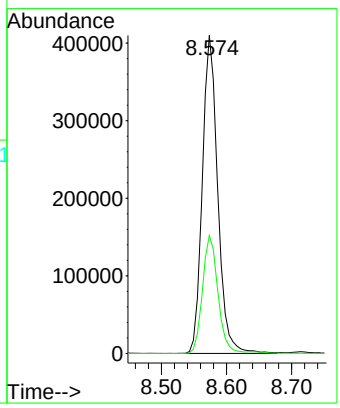




#51
4-Methyl-2-Pentanone
Concen: 255.038 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 673069

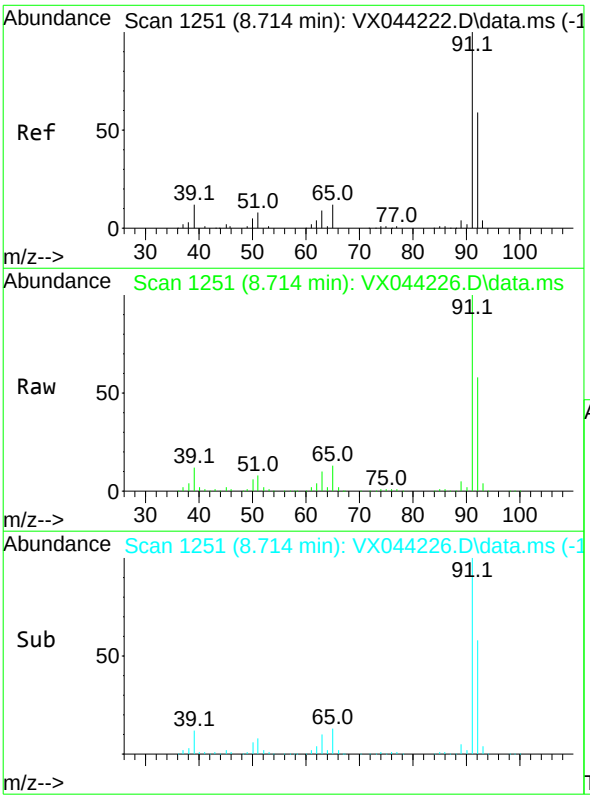
Ion	Ratio	Lower	Upper
43	100		
58	37.0	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

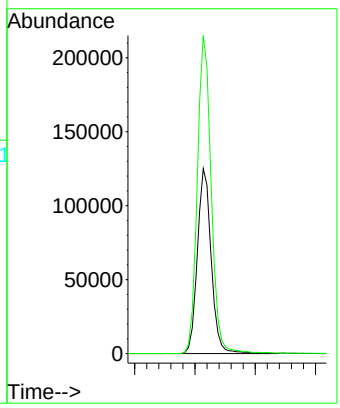
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

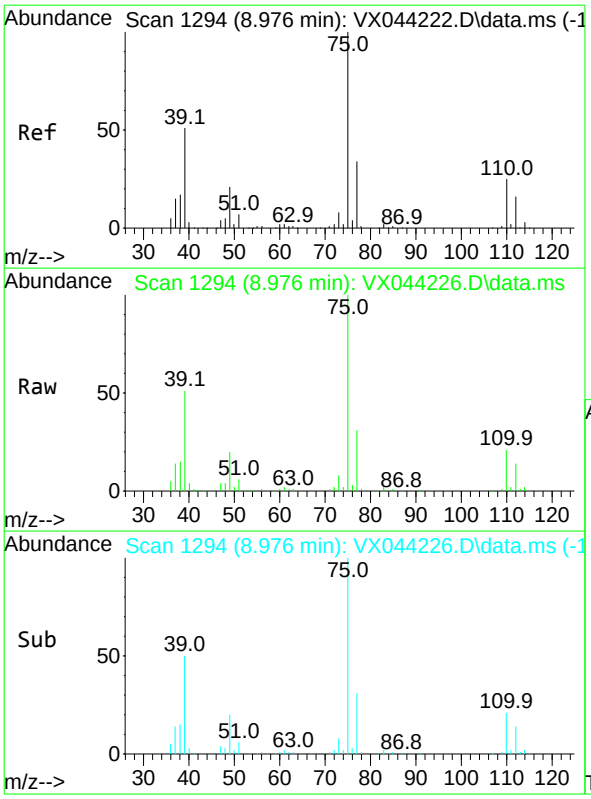


#52
Toluene
Concen: 49.199 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 92 Resp: 199281

Ion	Ratio	Lower	Upper
92	100		
91	173.2	137.0	205.6

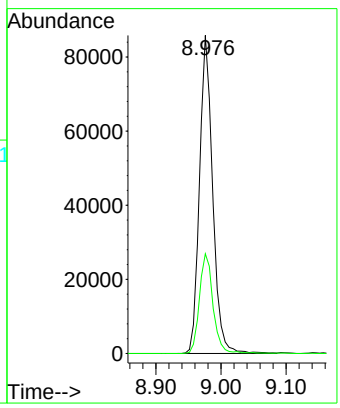




#53
t-1,3-Dichloropropene
Concen: 50.864 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 120696

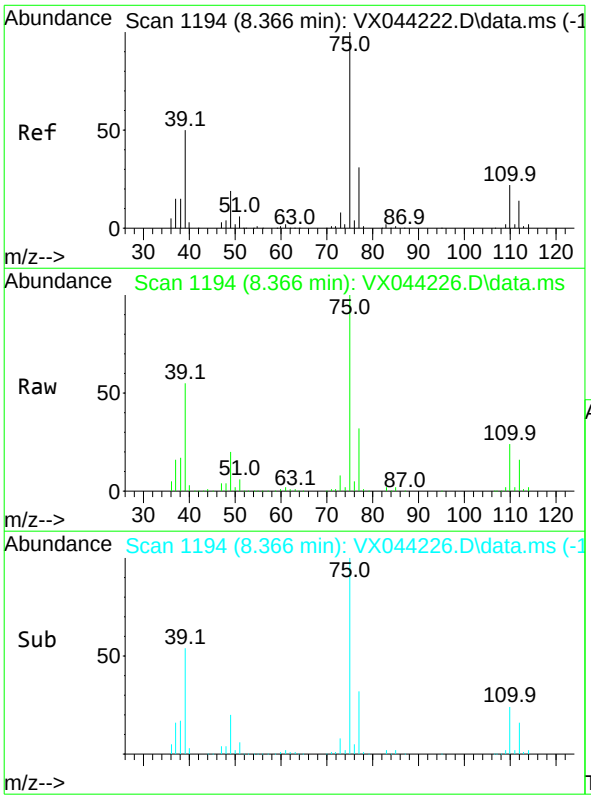
Ion	Ratio	Lower	Upper
75	100		
77	31.4	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

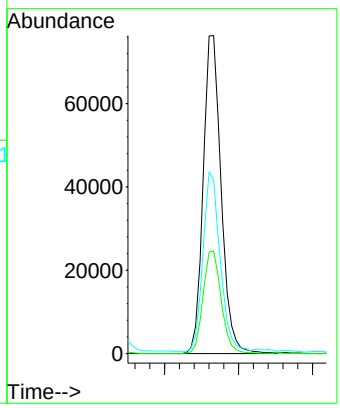
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

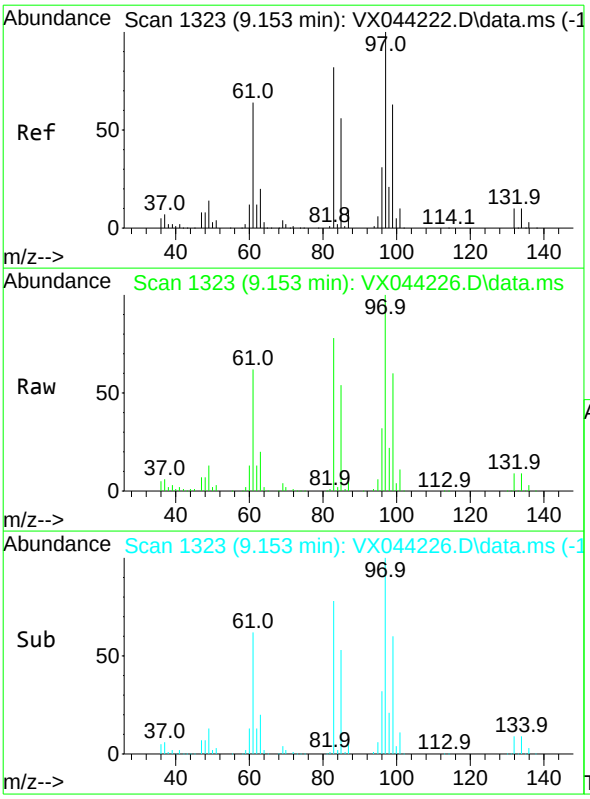


#54
cis-1,3-Dichloropropene
Concen: 53.607 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 128875

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.7	37.1
39	53.9	40.3	60.5

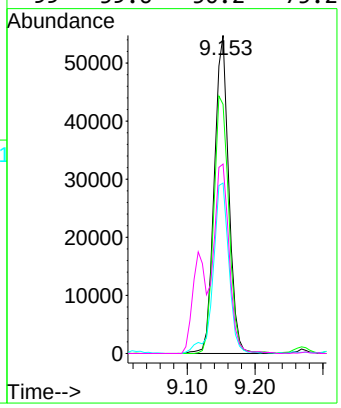




#55
1,1,2-Trichloroethane
Concen: 50.562 ug/l
RT: 9.153 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 97 Resp: 81362

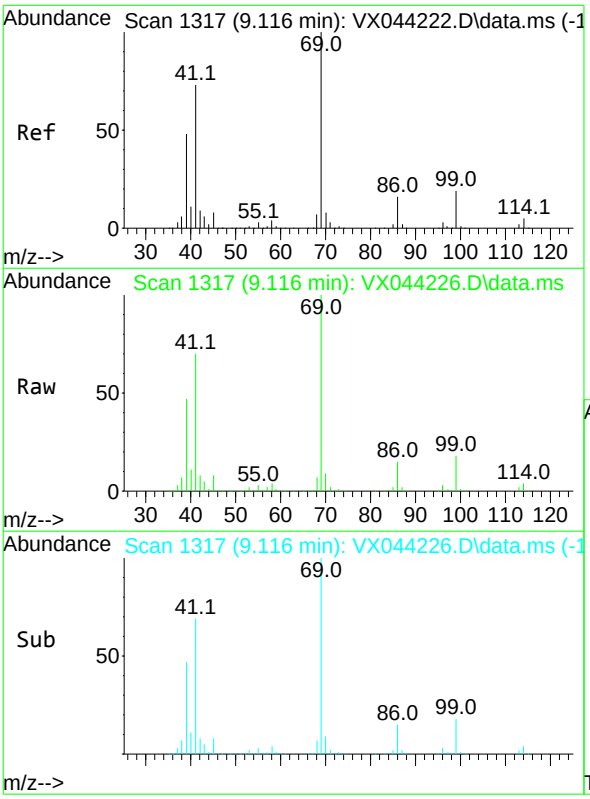
Ion	Ratio	Lower	Upper
97	100		
83	78.3	65.3	97.9
85	53.6	44.6	67.0
99	59.6	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

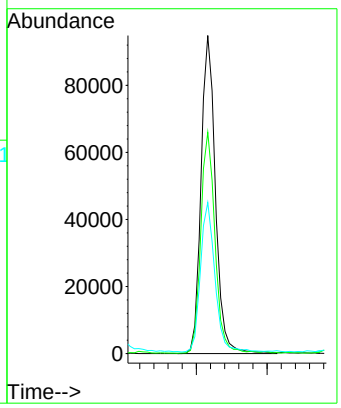
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

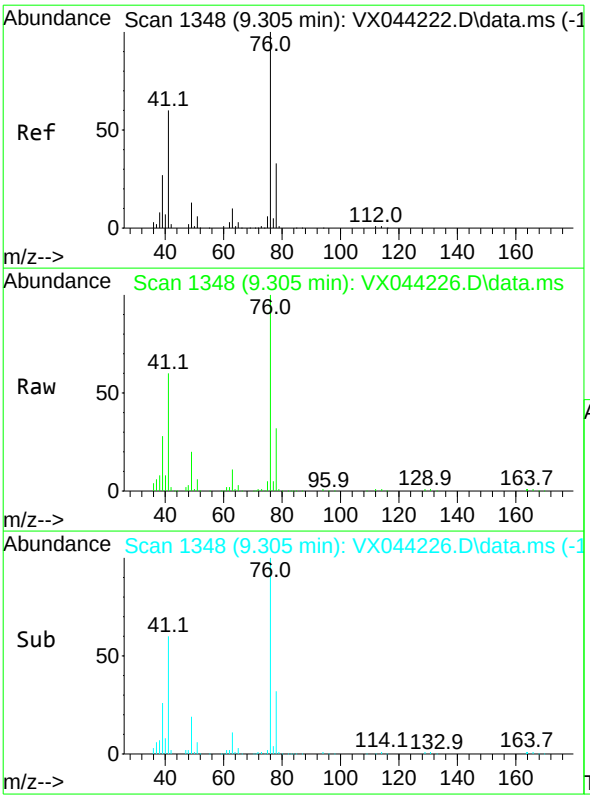


#56
Ethyl methacrylate
Concen: 52.890 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 69 Resp: 134357

Ion	Ratio	Lower	Upper
69	100		
41	68.6	56.6	85.0
39	47.2	37.4	56.0

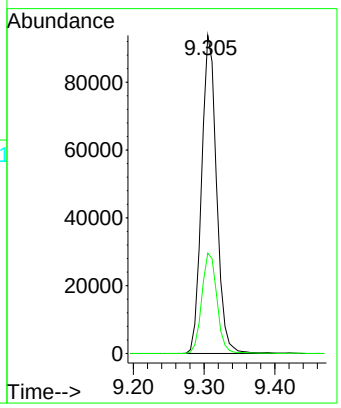




#57
1,3-Dichloropropane
Concen: 49.165 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 76 Resp: 137705

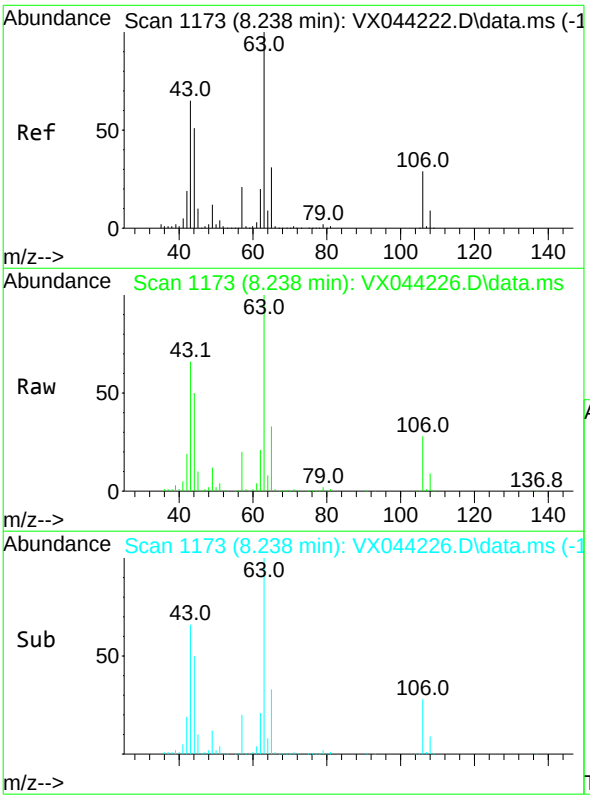
Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

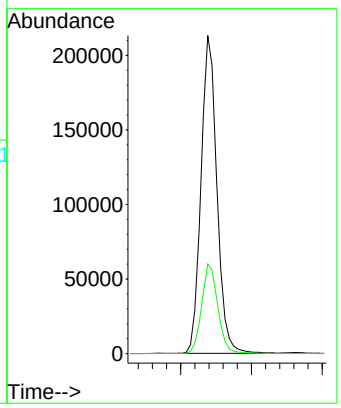
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

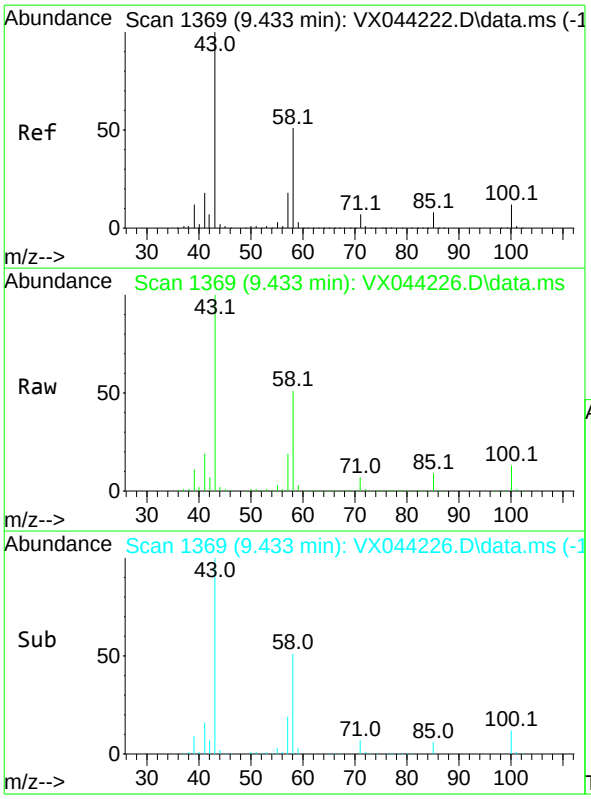


#58
2-Chloroethyl Vinyl ether
Concen: 259.586 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 63 Resp: 332599

Ion	Ratio	Lower	Upper
63	100		
106	28.6	22.8	34.2

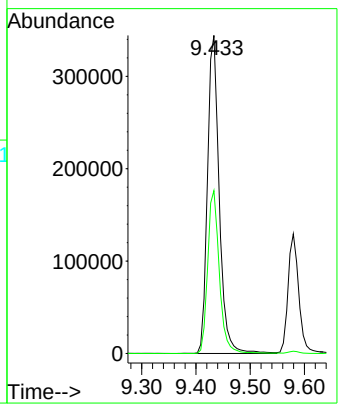




#59
2-Hexanone
Concen: 271.943 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 519476

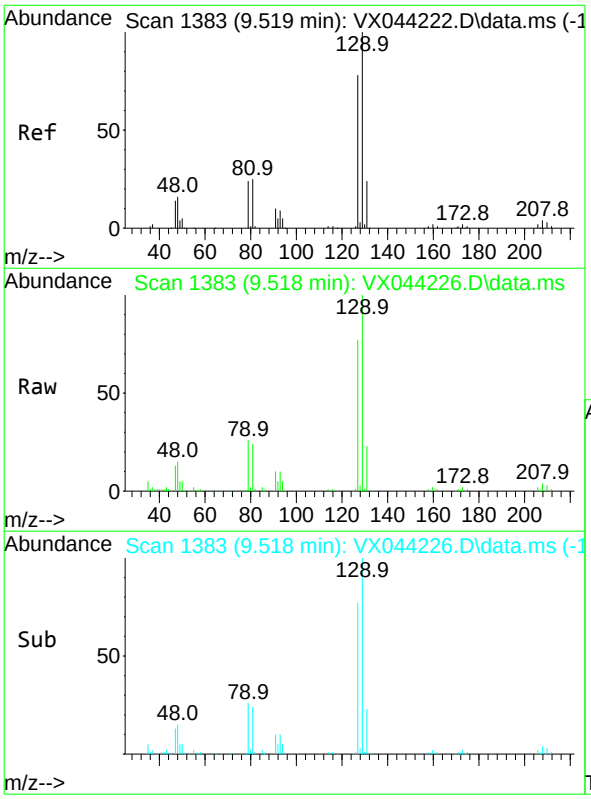
Ion	Ratio	Lower	Upper
43	100		
58	50.7	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

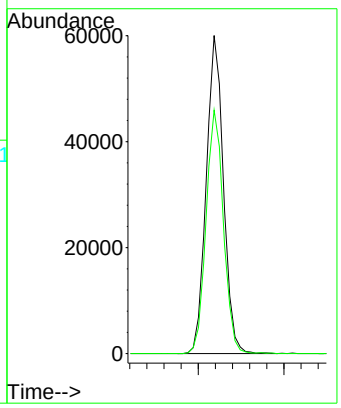
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

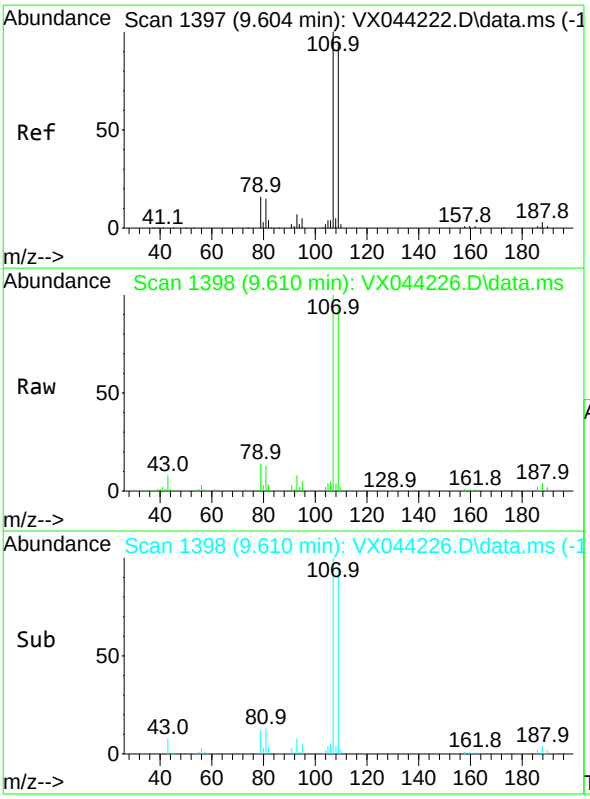


#60
Dibromochloromethane
Concen: 49.073 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:129 Resp: 83515

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.3

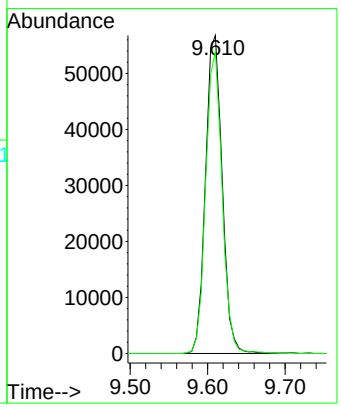




#61
1,2-Dibromoethane
Concen: 51.909 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:107 Resp: 85024

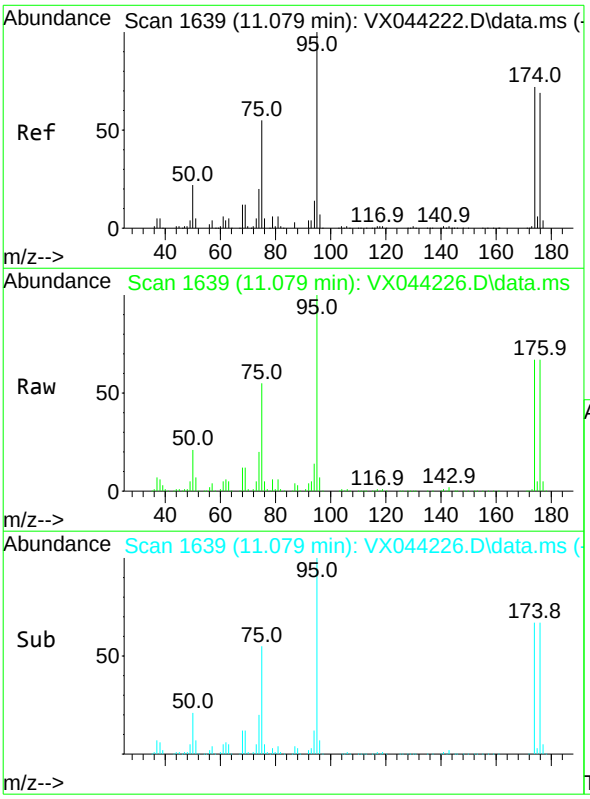
Ion	Ratio	Lower	Upper
107	100		
109	93.7	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

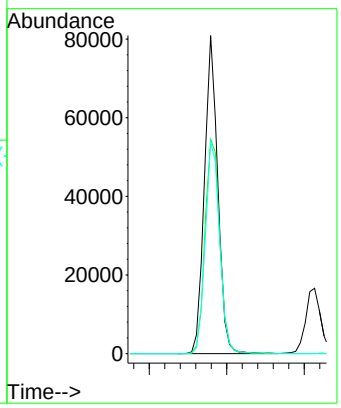
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

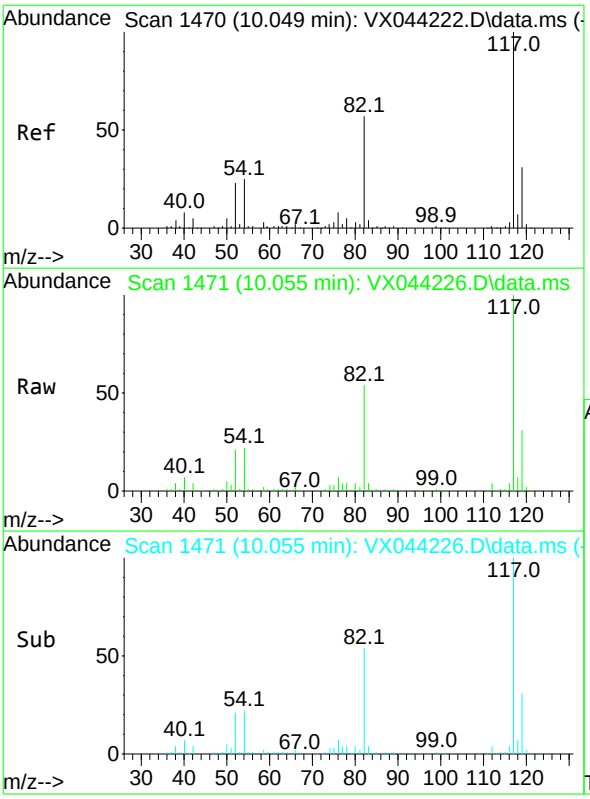


#62
4-Bromofluorobenzene
Concen: 50.098 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 95 Resp: 97061

Ion	Ratio	Lower	Upper
95	100		
174	74.3	0.0	145.8
176	71.4	0.0	137.8

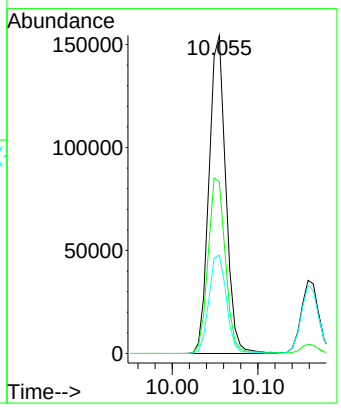




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:117 Resp: 210572

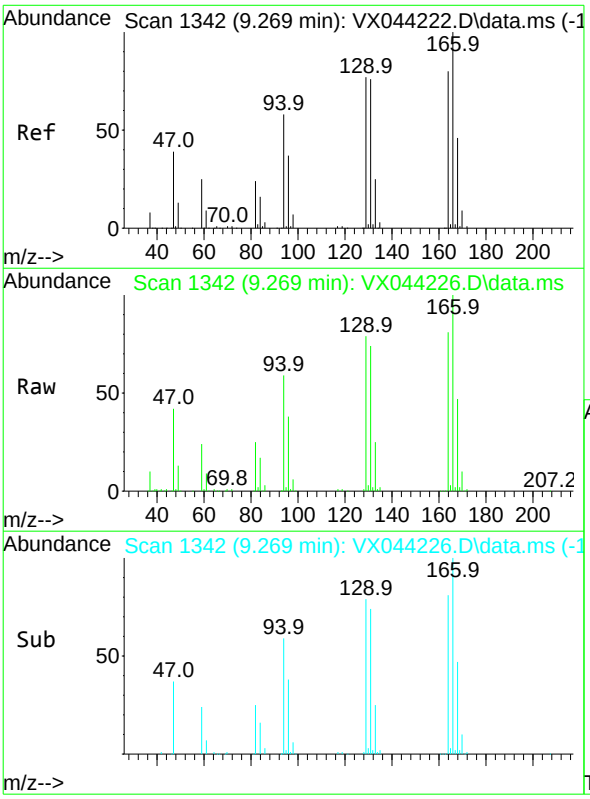
Ion	Ratio	Lower	Upper
117	100		
82	54.0	45.8	68.8
119	31.0	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

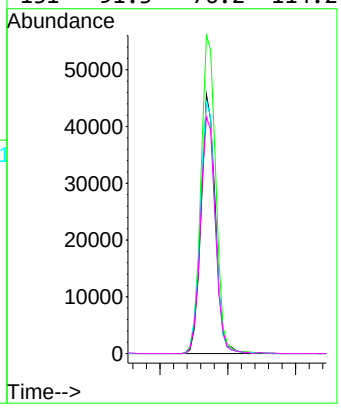
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

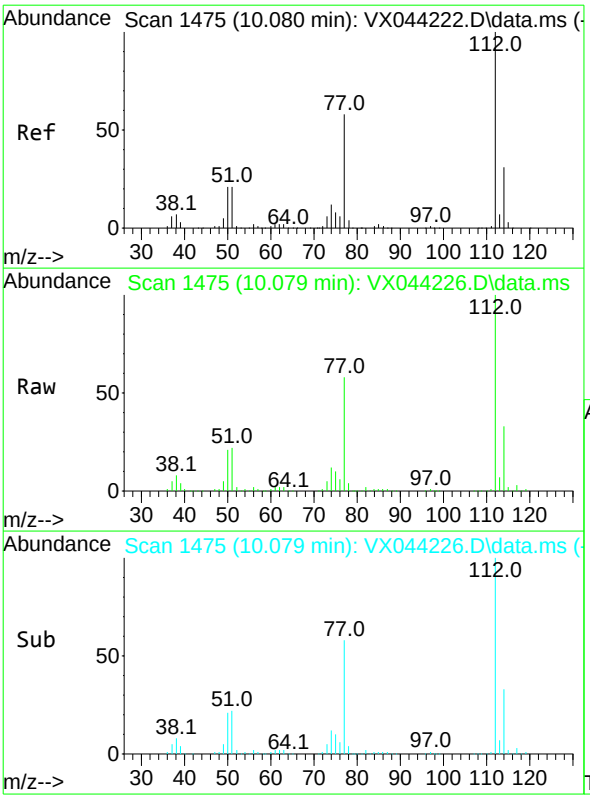


#64
Tetrachloroethene
Concen: 47.702 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:164 Resp: 66669

Ion	Ratio	Lower	Upper
164	100		
166	122.8	100.4	150.6
129	97.2	77.2	115.8
131	91.3	76.2	114.2

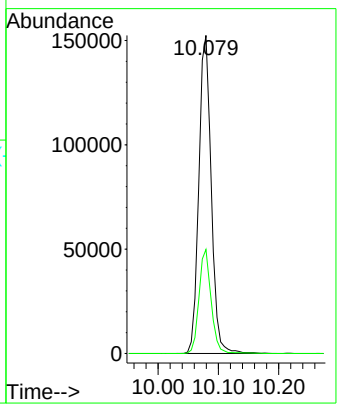




#65
Chlorobenzene
Concen: 48.133 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:112 Resp: 217180

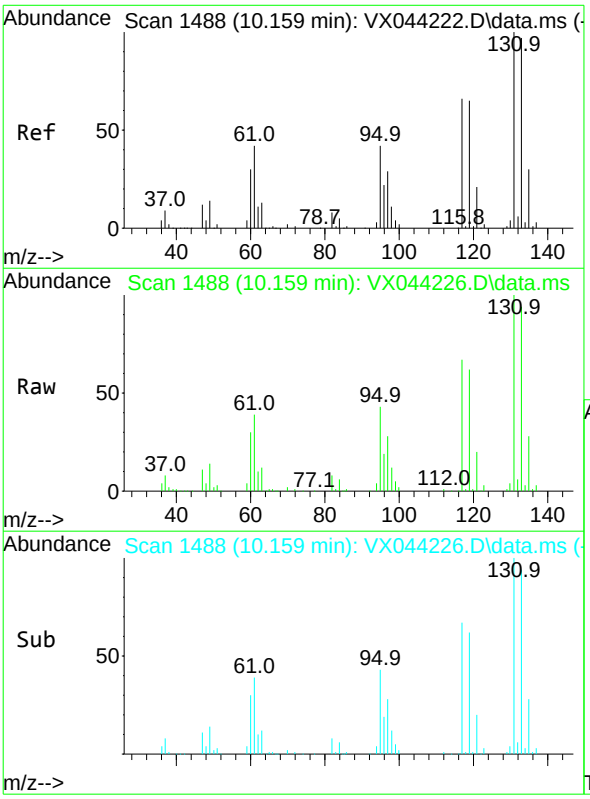
Ion	Ratio	Lower	Upper
112	100		
114	32.7	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

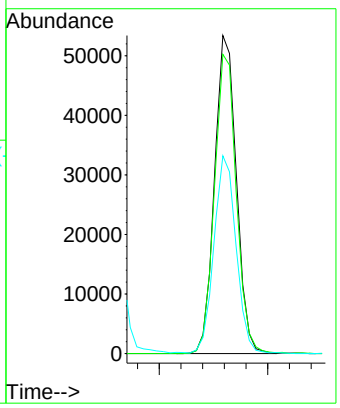
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

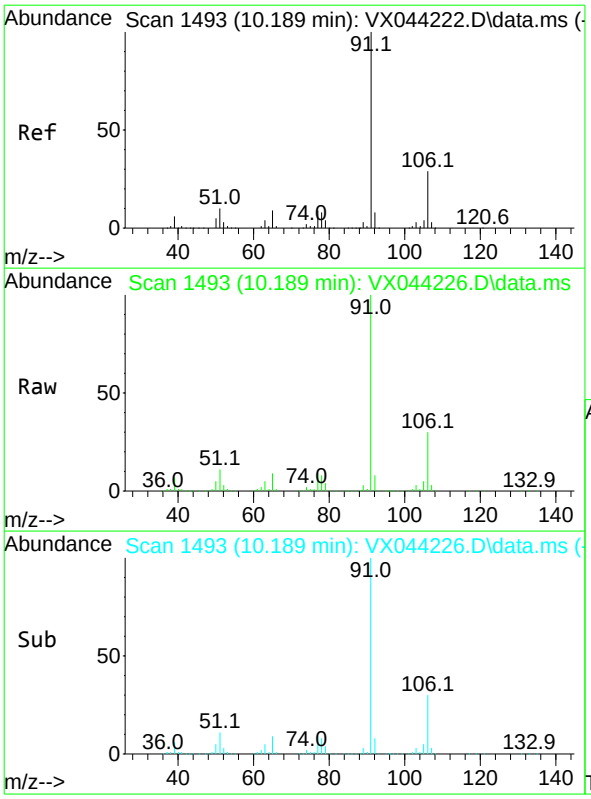


#66
1,1,1,2-Tetrachloroethane
Concen: 51.396 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:131 Resp: 74531

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.3	141.8
119	63.3	31.6	95.0

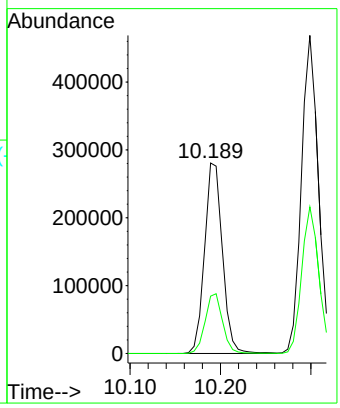




#67
Ethyl Benzene
Concen: 49.461 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 91 Resp: 385605

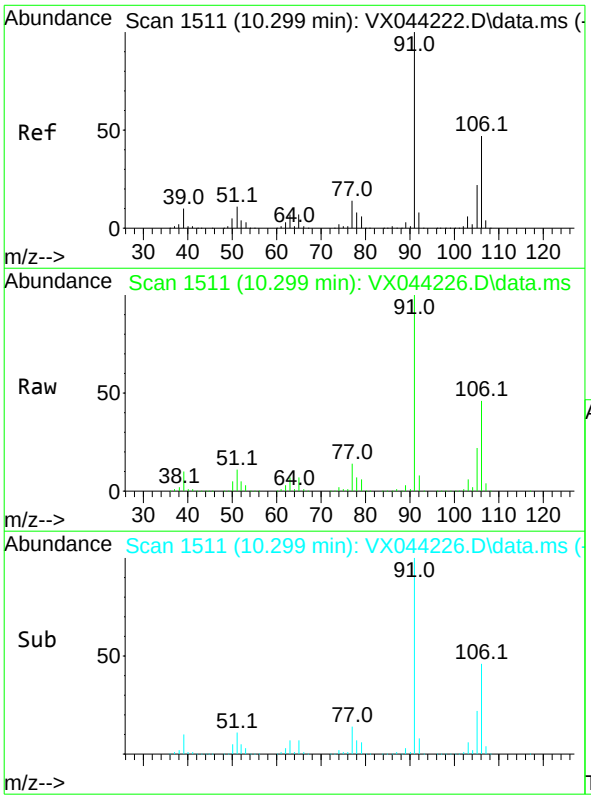
Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

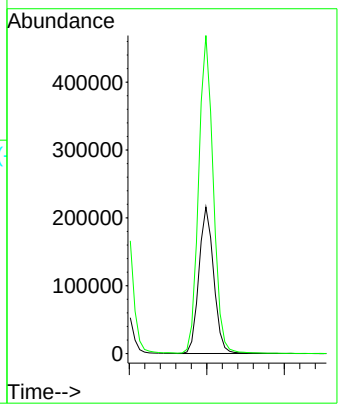
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

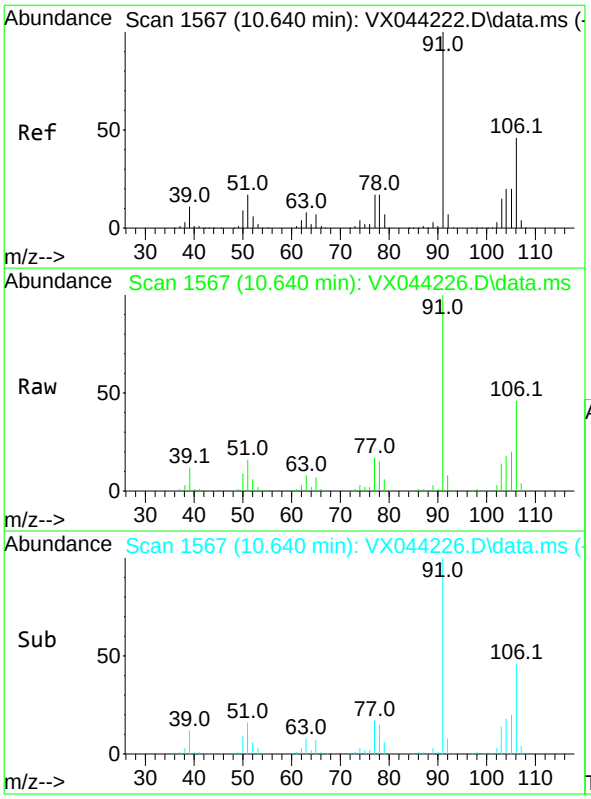


#68
m/p-Xylenes
Concen: 99.896 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:106 Resp: 285774

Ion	Ratio	Lower	Upper
106	100		
91	214.6	170.2	255.2

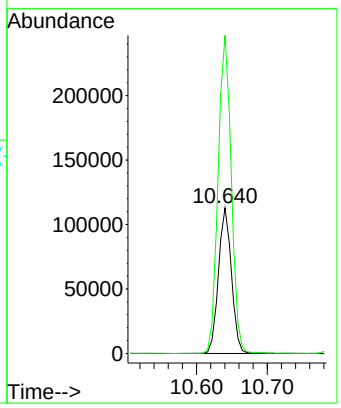




#69
o-Xylene
Concen: 49.750 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:106 Resp: 144001

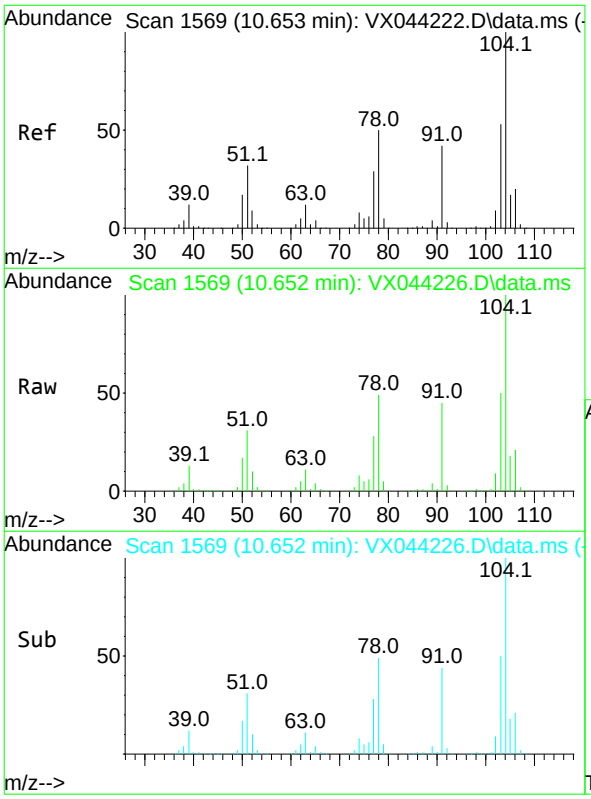
Ion	Ratio	Lower	Upper
106	100		
91	221.9	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

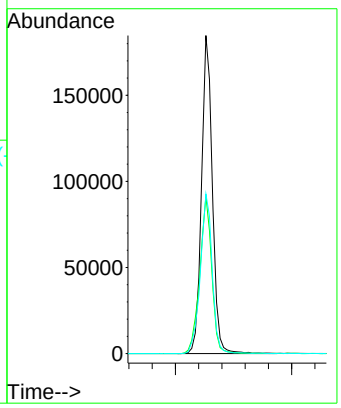
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

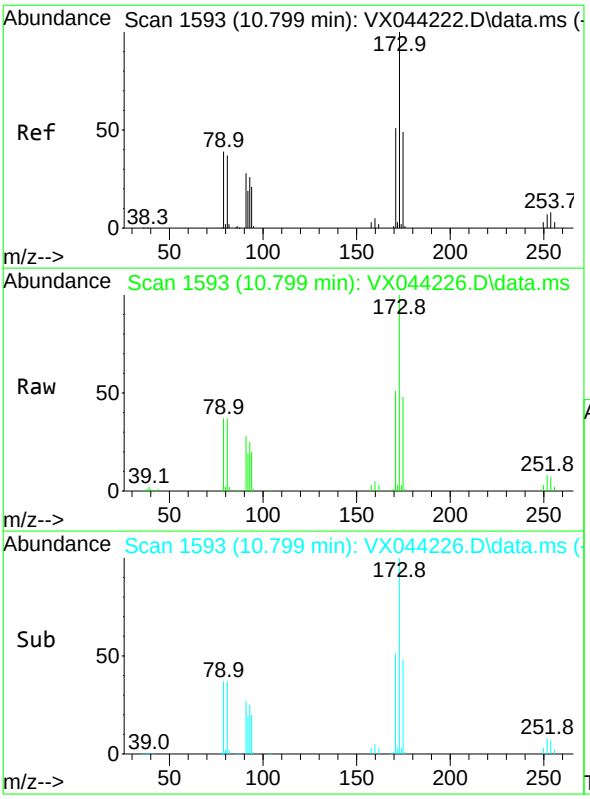


#70
Styrene
Concen: 51.617 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:104 Resp: 239508

Ion	Ratio	Lower	Upper
104	100		
78	54.5	44.6	67.0
103	54.9	45.4	68.0

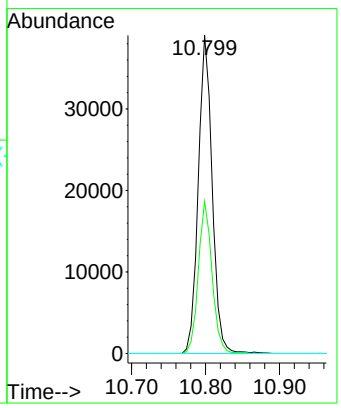




#71
Bromoform
Concen: 50.269 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:173 Resp: 50972

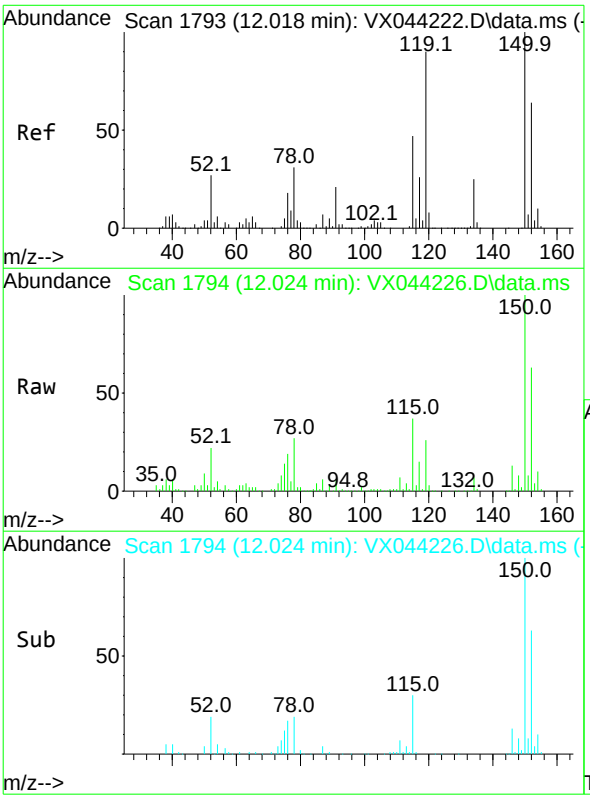
Ion	Ratio	Lower	Upper
173	100		
175	47.1	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

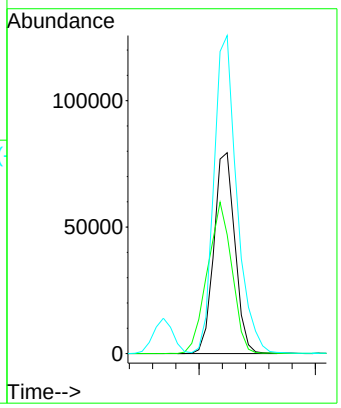
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

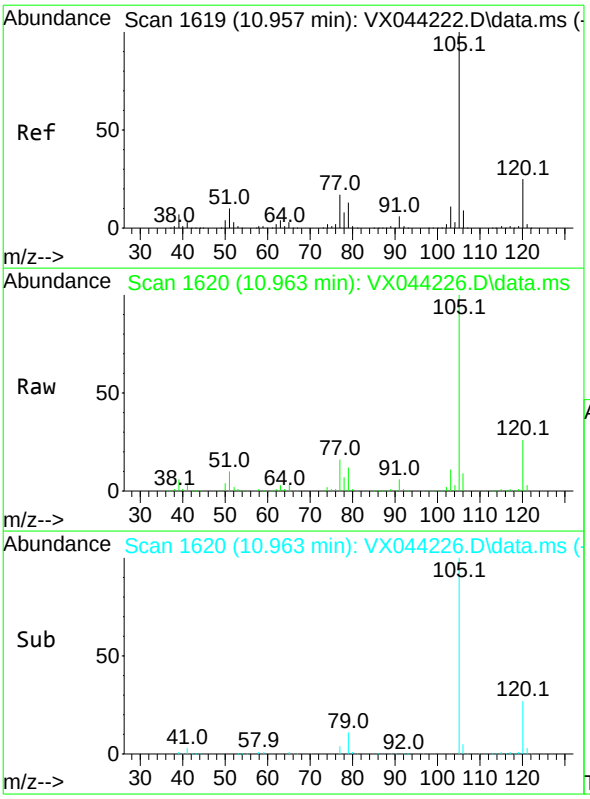


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:152 Resp: 99879

Ion	Ratio	Lower	Upper
152	100		
115	87.8	44.5	133.3
150	172.2	0.0	353.8

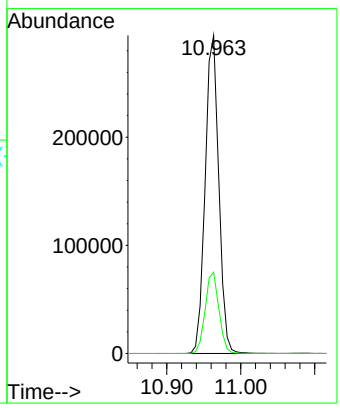




#73
Isopropylbenzene
Concen: 49.014 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:105 Resp: 374769

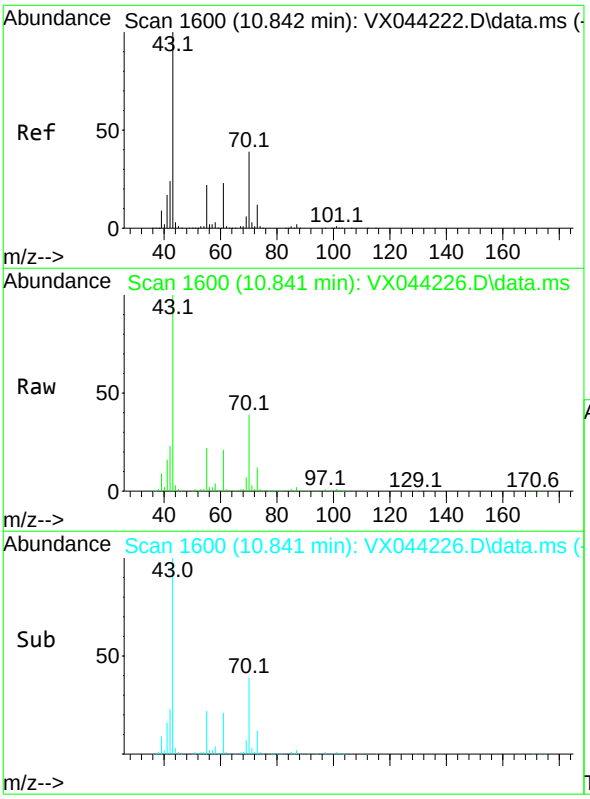
Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

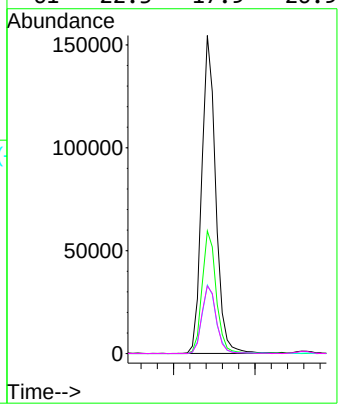
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

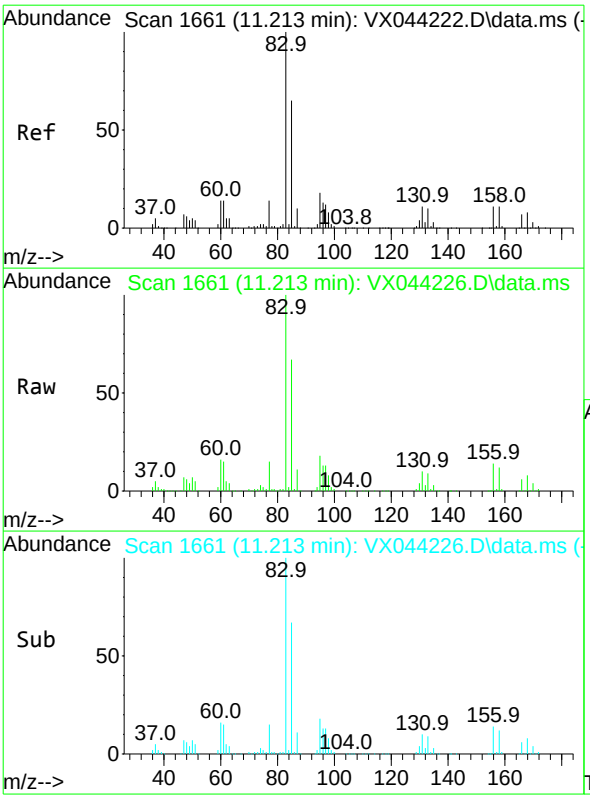


#74
N-amyl acetate
Concen: 52.003 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 183763

Ion	Ratio	Lower	Upper
43	100		
70	39.0	31.9	47.9
55	22.4	17.9	26.9
61	22.3	17.9	26.9

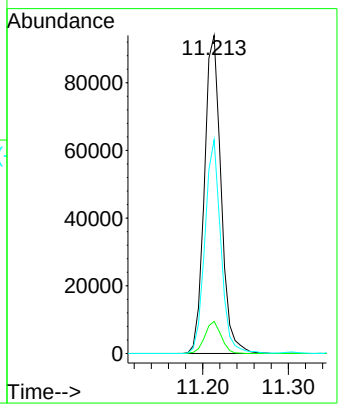




#75
1,1,2,2-Tetrachloroethane
Concen: 47.676 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 83 Resp: 126615

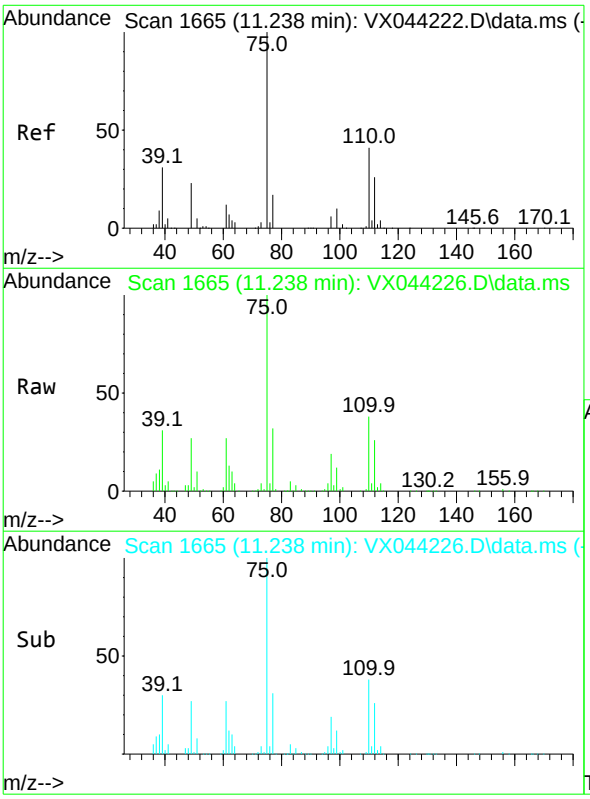
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	64.4	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

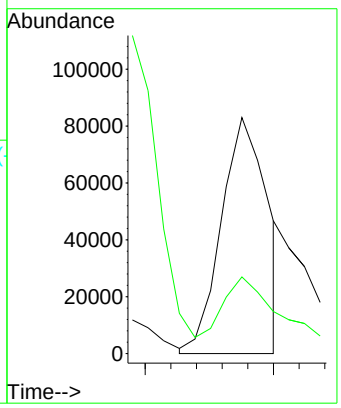
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

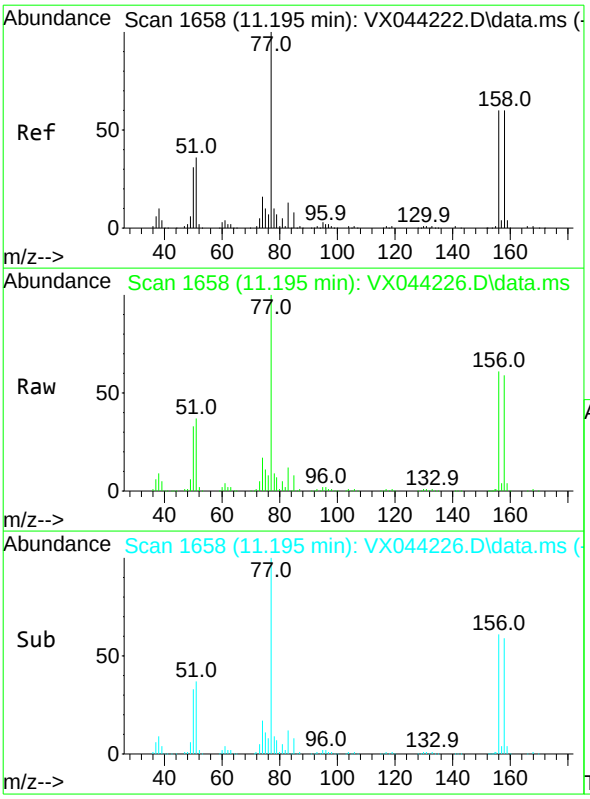


#76
1,2,3-Trichloropropane
Concen: 46.544 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 103796

Ion	Ratio	Lower	Upper
75	100		
77	43.4	20.9	62.7





#77
Bromobenzene
Concen: 47.335 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

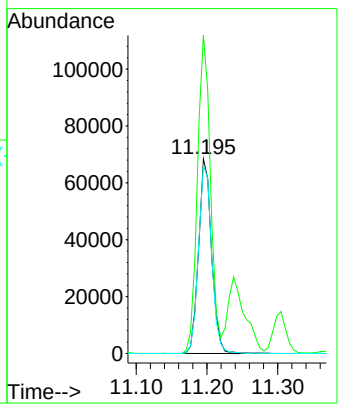
Tgt Ion:156 Resp: 87767

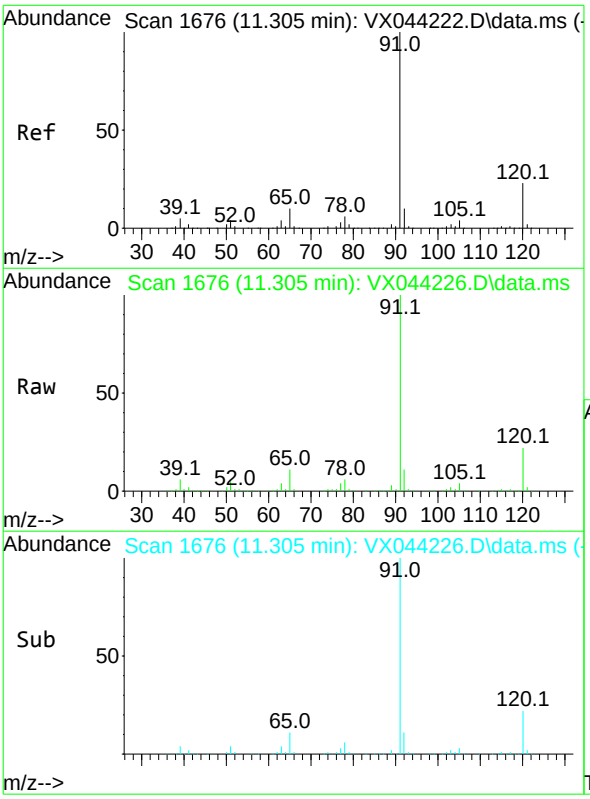
Ion	Ratio	Lower	Upper
156	100		
77	163.4	82.6	247.8
158	98.0	48.8	146.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

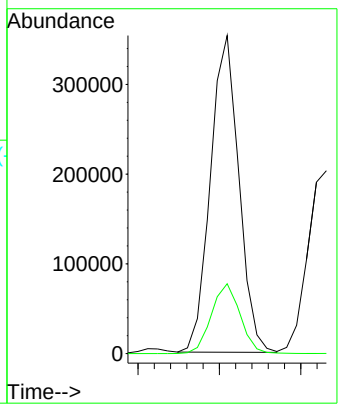


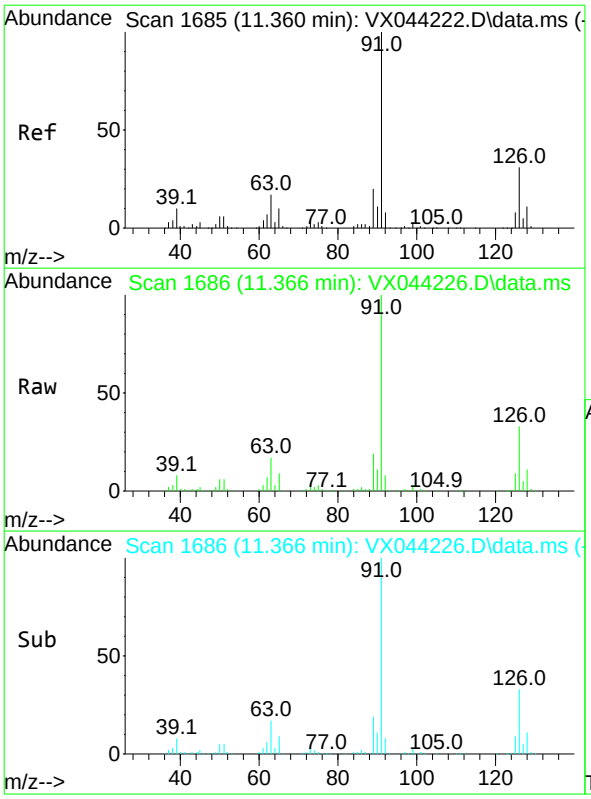


#78
n-propylbenzene
Concen: 50.816 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 91 Resp: 429443

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.0	33.0





#79
2-Chlorotoluene
Concen: 47.546 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

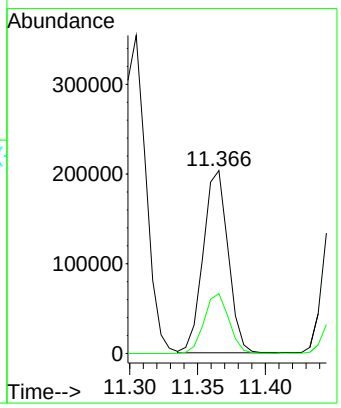
Tgt Ion: 91 Resp: 259860

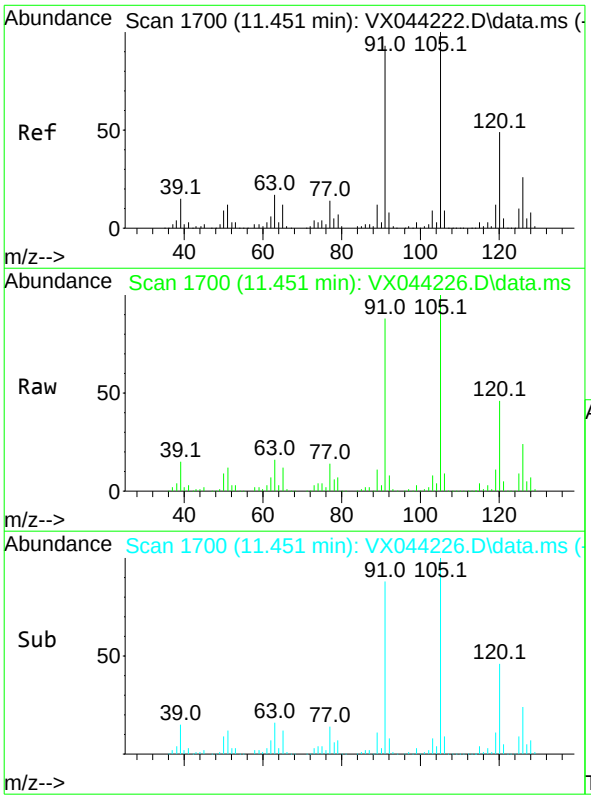
Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.4	49.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

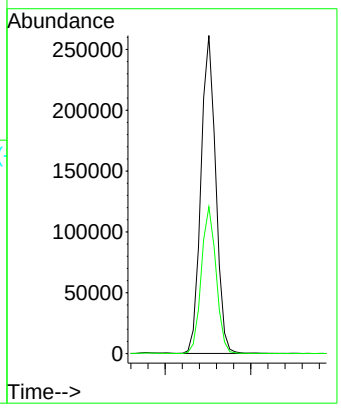


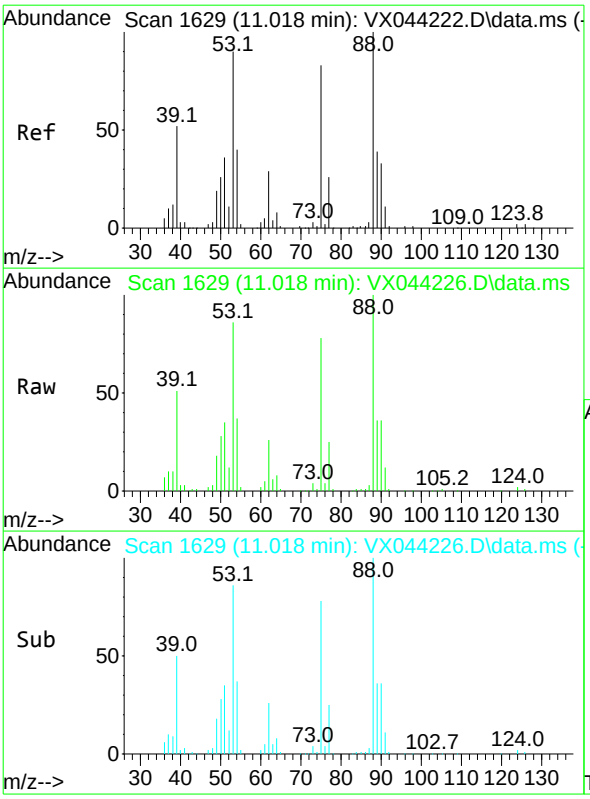


#80
1,3,5-Trimethylbenzene
Concen: 49.431 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:105 Resp: 313435

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.8	71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 47.861 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

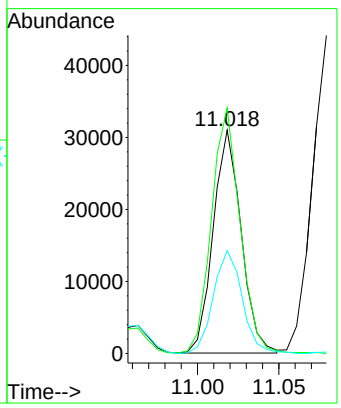
Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

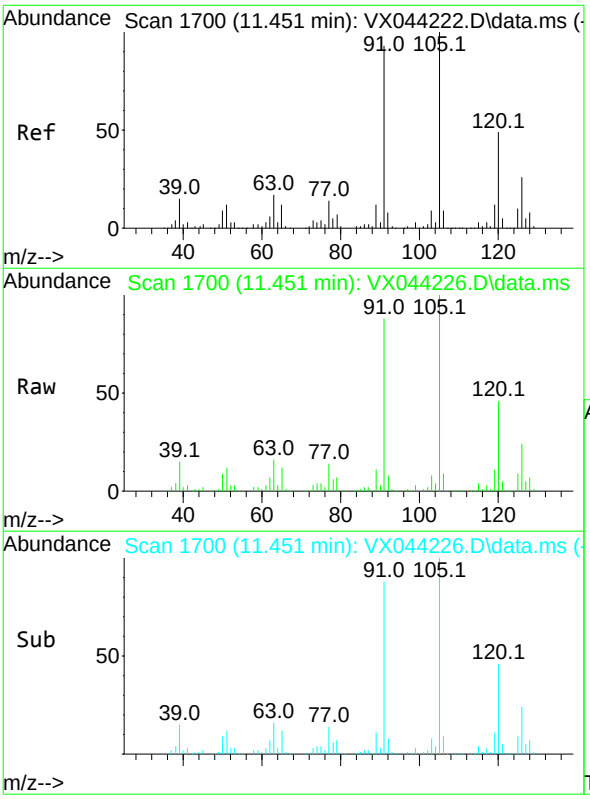
Tgt Ion: 75 Resp: 37038

Ion	Ratio	Lower	Upper
75	100		
53	112.6	93.6	140.4
89	47.5	37.3	55.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

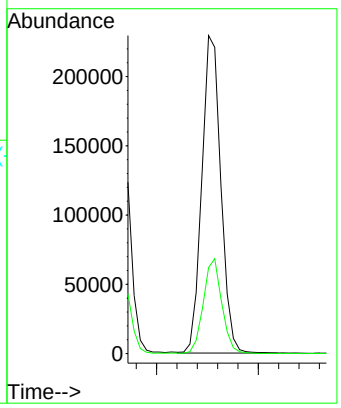


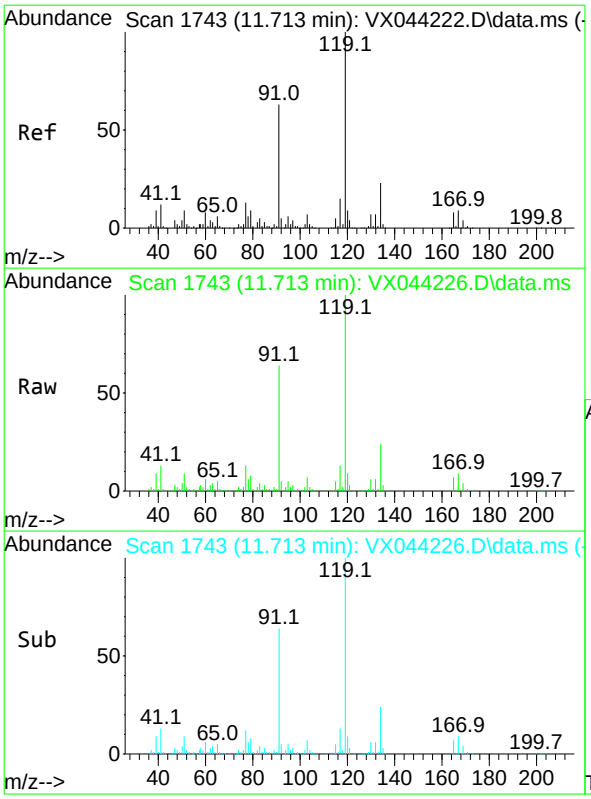


#82
4-Chlorotoluene
Concen: 49.178 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 91 Resp: 297641

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.5	43.5

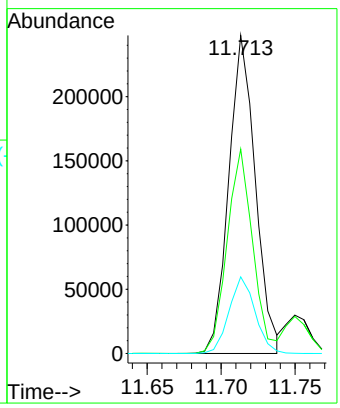




#83
tert-Butylbenzene
Concen: 49.384 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:119 Resp: 309463

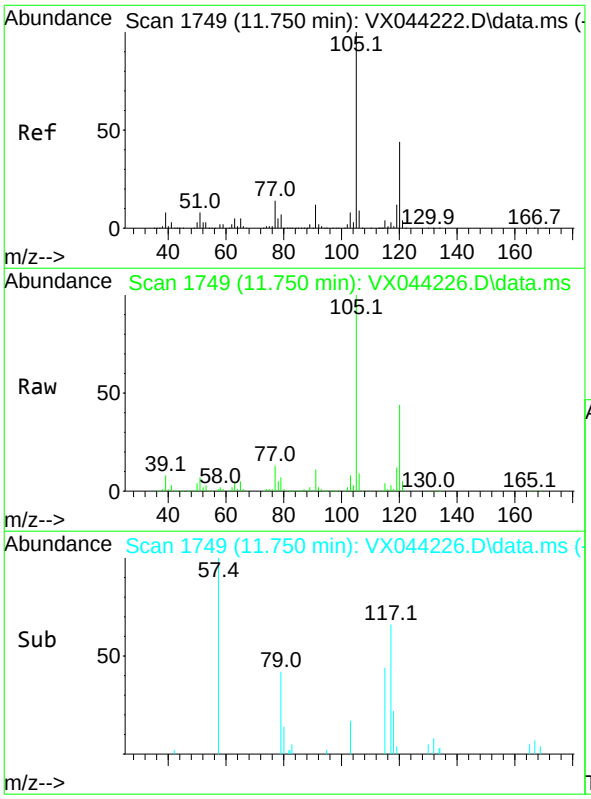
Ion	Ratio	Lower	Upper
119	100		
91	62.1	30.9	92.5
134	23.6	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

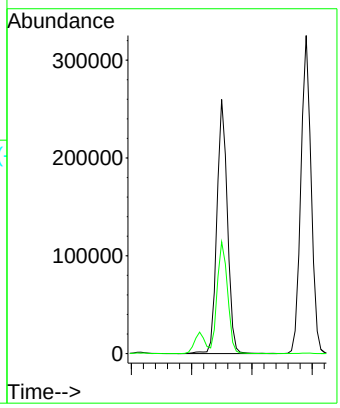
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

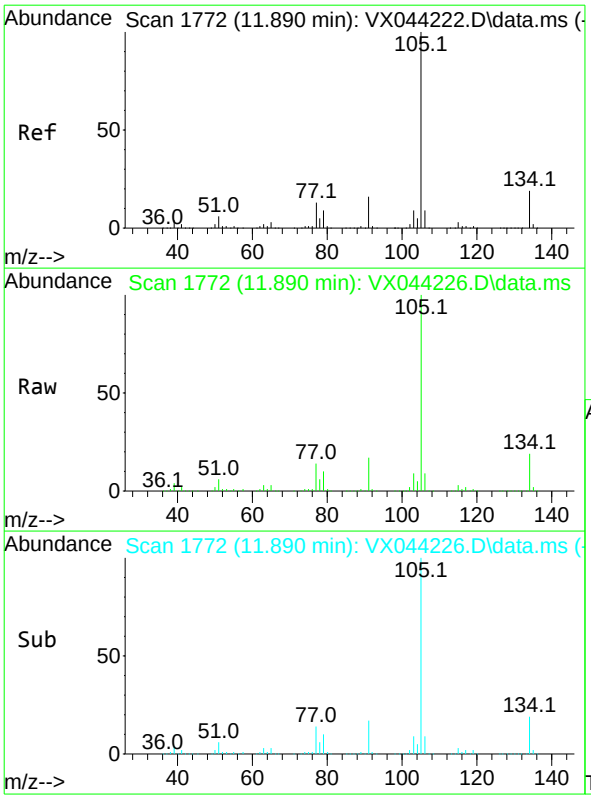


#84
1,2,4-Trimethylbenzene
Concen: 50.333 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:105 Resp: 313433

Ion	Ratio	Lower	Upper
105	100		
120	43.3	21.7	65.1





#85
sec-Butylbenzene
Concen: 50.097 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

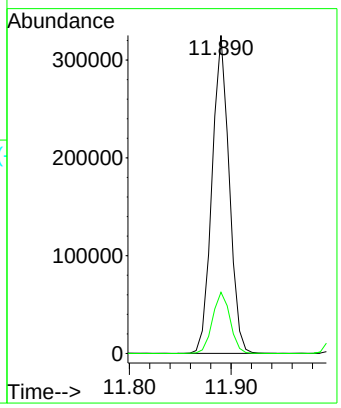
Tgt Ion:105 Resp: 381109

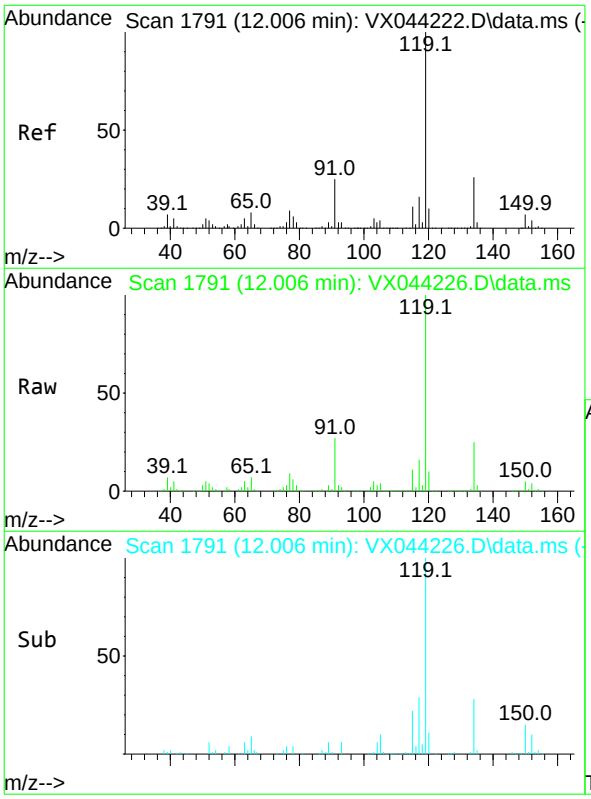
Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

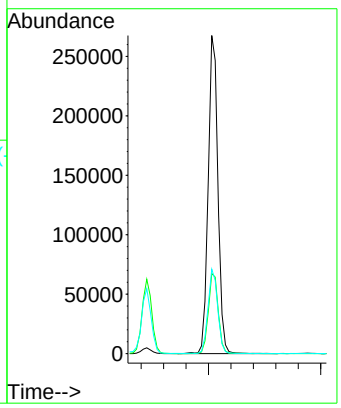


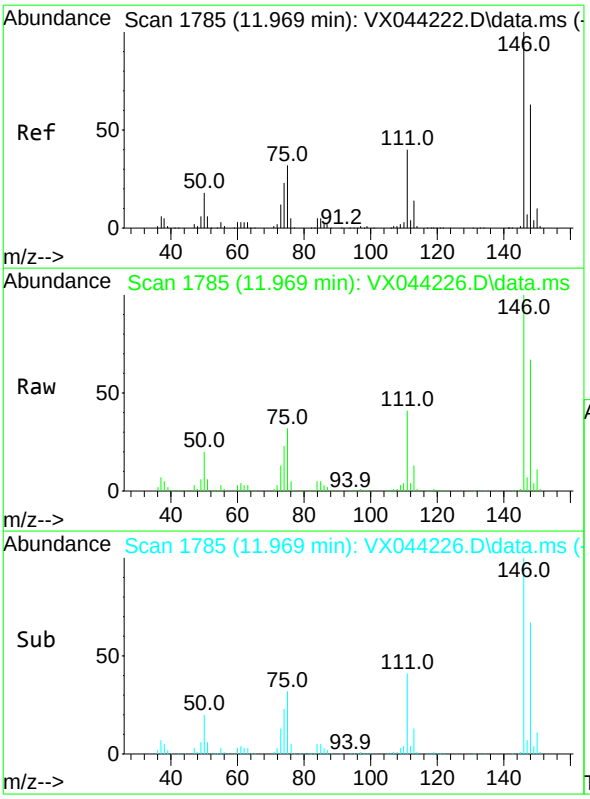


#86
p-Isopropyltoluene
Concen: 50.678 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:119 Resp: 320882

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.8	38.4
91	26.3	13.0	39.0

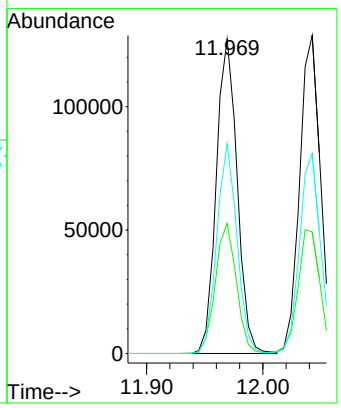




#87
1,3-Dichlorobenzene
Concen: 49.122 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:146 Resp: 159094

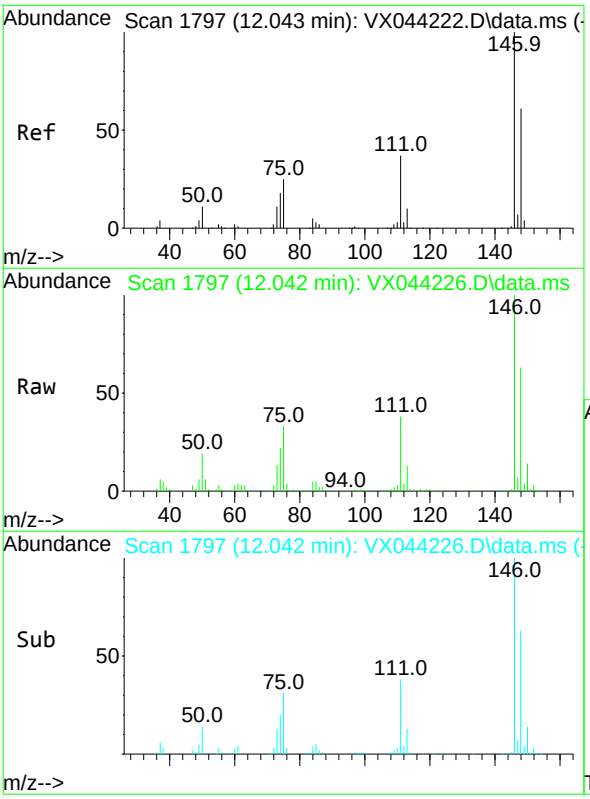
Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.4	64.2
148	64.7	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

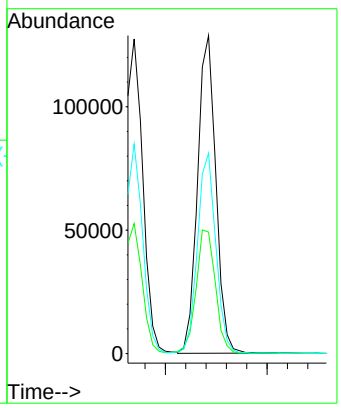
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

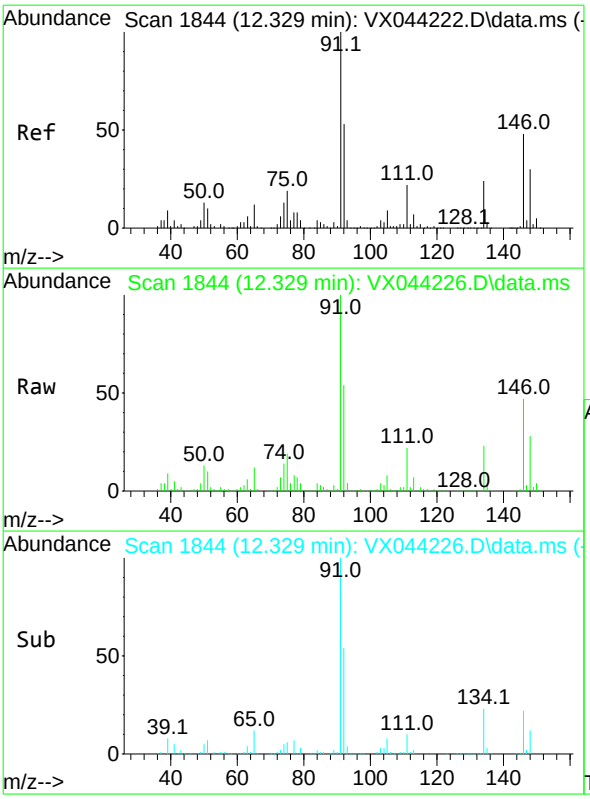


#88
1,4-Dichlorobenzene
Concen: 48.280 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:146 Resp: 160742

Ion	Ratio	Lower	Upper
146	100		
111	41.1	21.0	63.0
148	63.6	32.3	96.8





#89
n-Butylbenzene
Concen: 53.207 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

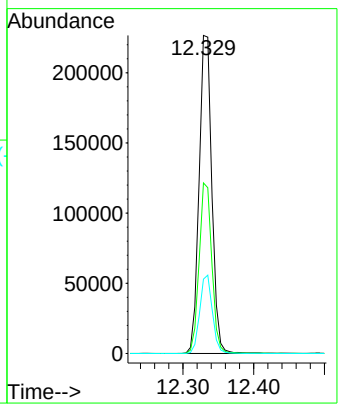
Tgt Ion: 91 Resp: 283284

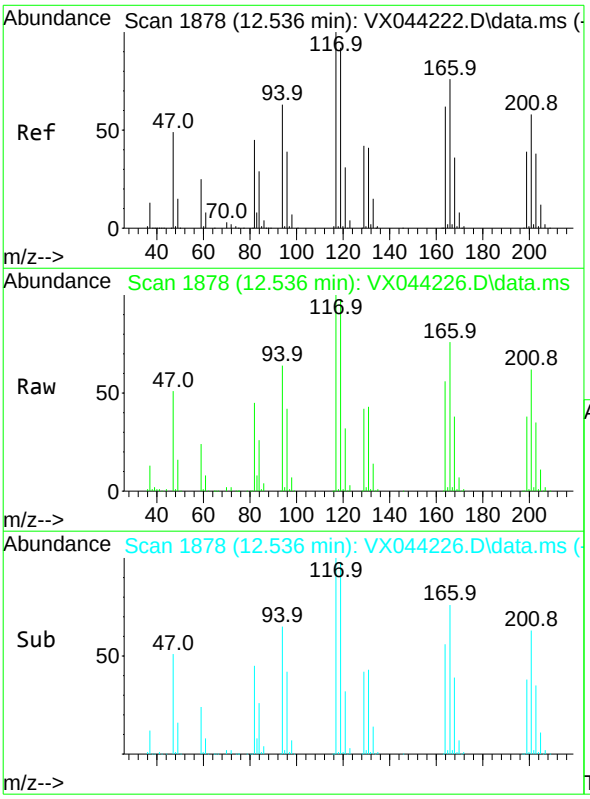
Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.6	79.7
134	24.3	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

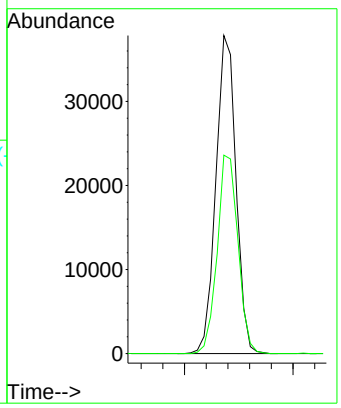


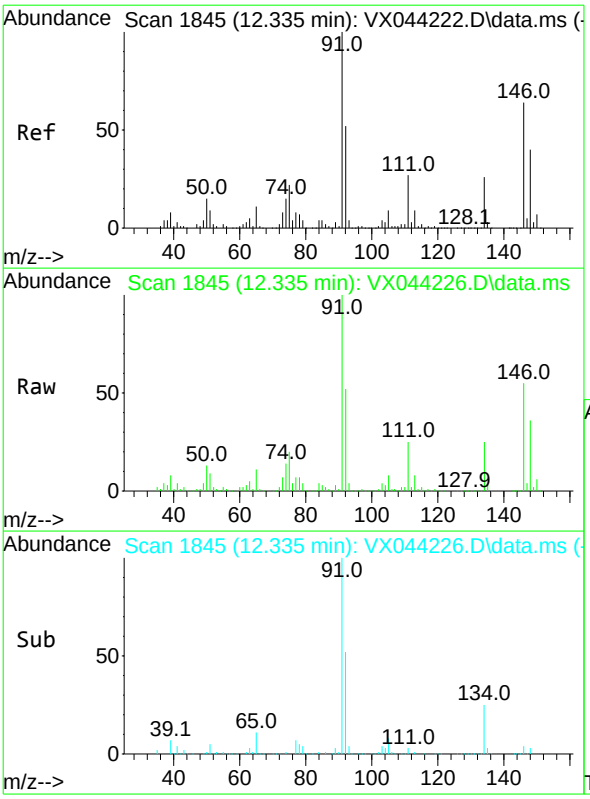


#90
Hexachloroethane
Concen: 52.727 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:117 Resp: 48734

Ion	Ratio	Lower	Upper
117	100		
201	64.3	31.4	94.2

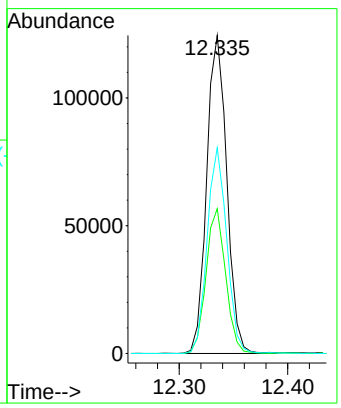




#91
1,2-Dichlorobenzene
Concen: 47.589 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:146 Resp: 160039

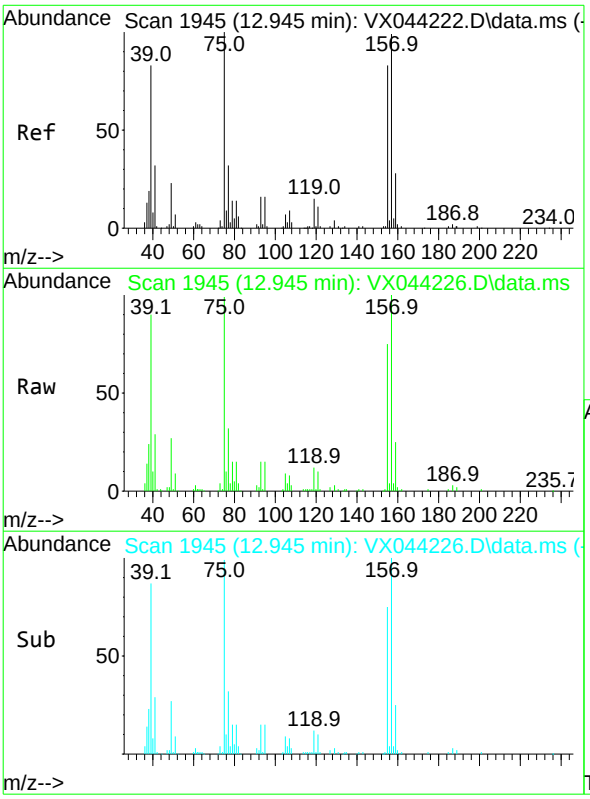
Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.4	64.3
148	63.4	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

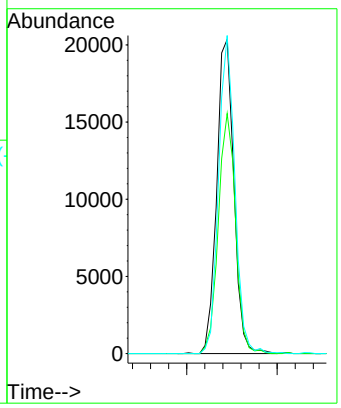
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

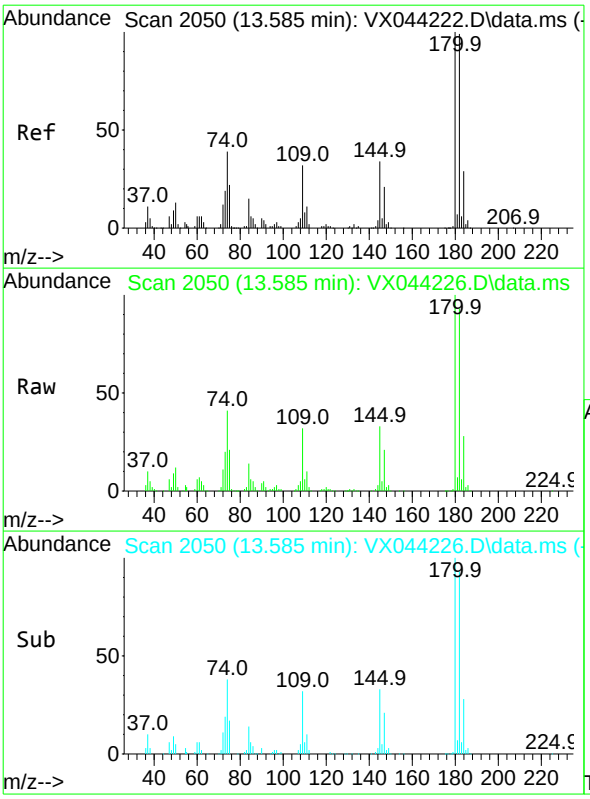


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.864 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 26738

Ion	Ratio	Lower	Upper
75	100		
155	76.5	38.1	114.3
157	96.3	47.2	141.6





#93
1,2,4-Trichlorobenzene
Concen: 53.940 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

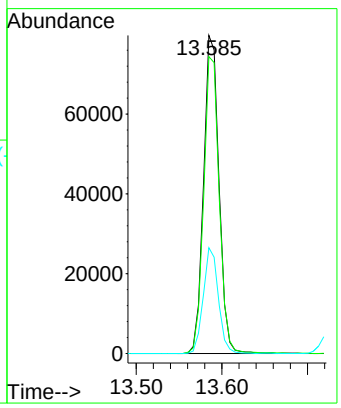
Tgt Ion:180 Resp: 99449

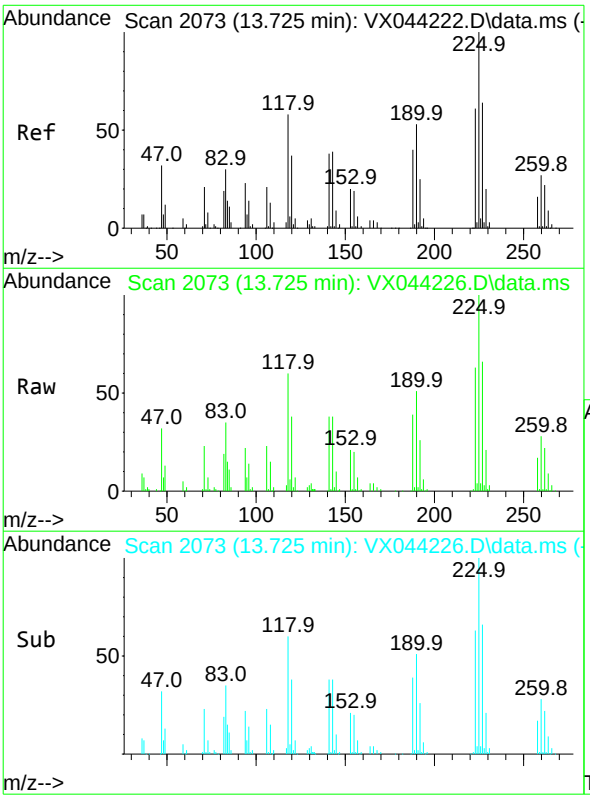
Ion	Ratio	Lower	Upper
180	100		
182	94.3	48.0	144.2
145	32.6	16.6	49.7

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

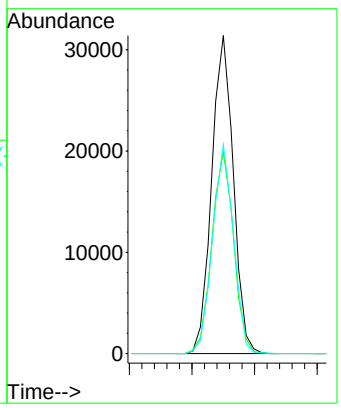


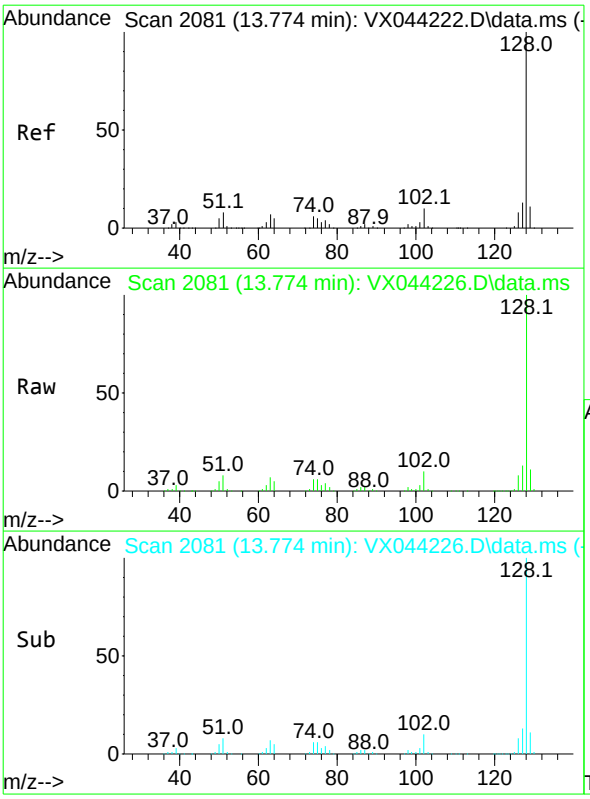


#94
Hexachlorobutadiene
Concen: 50.770 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:225 Resp: 37651

Ion	Ratio	Lower	Upper
225	100		
223	63.9	30.8	92.4
227	63.7	32.1	96.3

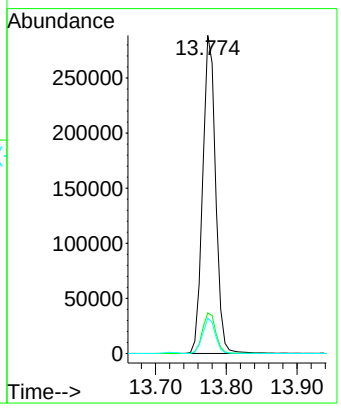




#95
Naphthalene
Concen: 50.827 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:128 Resp: 365781

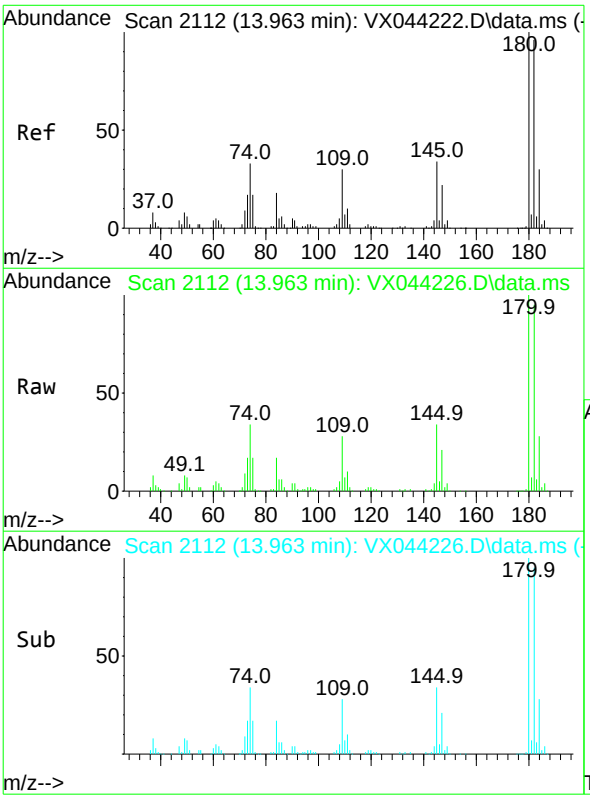
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	10.9	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations
APPROVED

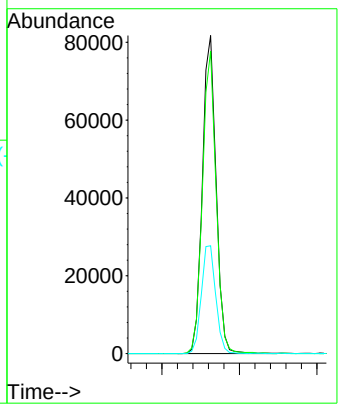
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 51.244 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:180 Resp: 100209

Ion	Ratio	Lower	Upper
180	100		
182	95.2	48.0	144.0
145	35.7	17.7	53.1



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	107	0.00
2	T	Dichlorodifluoromethane	0.773	0.779	-0.8	106	0.00
3	P	Chloromethane	0.739	0.690	6.6	98	0.00
4	C	Vinyl Chloride	0.770	0.728	5.5#	99	0.00
5	T	Bromomethane	0.546	0.502	8.1	97	0.00
6	T	Chloroethane	0.480	0.468	2.5	94	0.00
7	T	Trichlorofluoromethane	1.508	1.517	-0.6	105	0.00
8	T	Diethyl Ether	0.515	0.470	8.7	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.610	0.615	-0.8	107	0.00
10	T	Methyl Iodide	0.804	0.745	7.3	94	0.00
11	T	Tert butyl alcohol	0.124	0.115	7.3	102	0.00
12	CM	1,1-Dichloroethene	0.560	0.553	1.3#	99	0.00
13	T	Acrolein	0.179	0.167	6.7	96	0.00
14	T	Allyl chloride	0.933	0.929	0.4	98	0.00
15	T	Acrylonitrile	0.342	0.329	3.8	98	0.00
16	T	Acetone	0.357	0.388	-8.7	109	0.00
17	T	Carbon Disulfide	1.065	1.116	-4.8	104	0.00
18	T	Methyl Acetate	0.922	0.861	6.6	96	0.00
19	T	Methyl tert-butyl Ether	2.187	2.097	4.1	97	0.00
20	T	Methylene Chloride	0.671	0.620	7.6	96	0.00
21	T	trans-1,2-Dichloroethene	0.596	0.577	3.2	100	0.00
22	T	Diisopropyl ether	2.102	1.973	6.1	97	0.00
23	T	Vinyl Acetate	1.709	1.767	-3.4	99	0.00
24	P	1,1-Dichloroethane	1.172	1.126	3.9	97	0.00
25	T	2-Butanone	0.508	0.516	-1.6	100	0.00
26	T	2,2-Dichloropropane	0.952	1.045	-9.8	107	0.00
27	T	cis-1,2-Dichloroethene	0.756	0.707	6.5	98	0.00
28	T	Bromochloromethane	0.575	0.515	10.4	93	0.00
29	T	Tetrahydrofuran	0.326	0.311	4.6	98	0.00
30	C	Chloroform	1.316	1.217	7.5#	97	0.00
31	T	Cyclohexane	0.946	0.936	1.1	102	0.00
32	T	1,1,1-Trichloroethane	1.093	1.090	0.3	99	0.00
33	S	1,2-Dichloroethane-d4	0.877	0.800	8.8	93	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35	S	Dibromofluoromethane	0.346	0.327	5.5	91	0.00
36	T	1,1-Dichloropropene	0.448	0.450	-0.4	103	0.00
37	T	Ethyl Acetate	0.553	0.577	-4.3	101	0.00
38	T	Carbon Tetrachloride	0.482	0.499	-3.5	101	0.00
39	T	Methylcyclohexane	0.535	0.586	-9.5	107	0.00
40	TM	Benzene	1.359	1.333	1.9	96	0.00
41	T	Methacrylonitrile	0.294	0.288	2.0	97	0.00
42	TM	1,2-Dichloroethane	0.560	0.559	0.2	97	0.00
43	T	Isopropyl Acetate	0.865	0.893	-3.2	99	0.00
44	TM	Trichloroethene	0.339	0.337	0.6	98	0.00
45	C	1,2-Dichloropropane	0.347	0.330	4.9#	94	0.00
46	T	Dibromomethane	0.269	0.276	-2.6	98	0.00
47	T	Bromodichloromethane	0.465	0.492	-5.8	98	0.00
48	T	Methyl methacrylate	0.420	0.427	-1.7	98	0.00

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.006	14.3	87	0.00
50	S	Toluene-d8	1.168	1.144	2.1	93	0.00
51	T	4-Methyl-2-Pentanone	0.556	0.567	-2.0	98	0.00
52	CM	Toluene	0.853	0.840	1.5#	97	0.00
53	T	t-1,3-Dichloropropene	0.455	0.509	-11.9	101	0.00
54	T	cis-1,3-Dichloropropene	0.507	0.543	-7.1	97	0.00
55	T	1,1,2-Trichloroethane	0.339	0.343	-1.2	97	0.00
56	T	Ethyl methacrylate	0.535	0.566	-5.8	100	0.00
57	T	1,3-Dichloropropane	0.590	0.580	1.7	96	0.00
58	T	2-Chloroethyl Vinyl ether	0.270	0.280	-3.7	97	0.00
59	T	2-Hexanone	0.403	0.438	-8.7	101	0.00
60	T	Dibromochloromethane	0.326	0.352	-8.0	97	0.00
61	T	1,2-Dibromoethane	0.345	0.358	-3.8	99	0.00
62	S	4-Bromofluorobenzene	0.408	0.409	-0.2	94	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
64	T	Tetrachloroethene	0.332	0.317	4.5	101	0.00
65	PM	Chlorobenzene	1.071	1.031	3.7	97	0.00
66	T	1,1,1,2-Tetrachloroethane	0.344	0.354	-2.9	97	0.00
67	C	Ethyl Benzene	1.851	1.831	1.1#	98	0.00
68	T	m/p-Xylenes	0.679	0.679	0.0	98	0.00
69	T	o-Xylene	0.687	0.684	0.4	100	0.00
70	T	Styrene	1.102	1.137	-3.2	100	0.00
71	P	Bromoform	0.219	0.242	-10.5	101	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73	T	Isopropylbenzene	3.828	3.752	2.0	101	0.00
74	T	N-amyl acetate	1.769	1.840	-4.0	101	0.00
75	P	1,1,2,2-Tetrachloroethane	1.329	1.268	4.6	100	0.00
76	T	1,2,3-Trichloropropane	1.116	1.039	6.9	97	0.00
77	T	Bromobenzene	0.928	0.879	5.3	98	0.00
78	T	n-propylbenzene	4.231	4.300	-1.6	100	0.00
79	T	2-Chlorotoluene	2.736	2.602	4.9	98	0.00
80	T	1,3,5-Trimethylbenzene	3.174	3.138	1.1	100	0.00
81	T	trans-1,4-Dichloro-2-butene	0.347	0.371	-6.9	105	0.00
82	T	4-Chlorotoluene	3.030	2.980	1.7	100	0.00
83	T	tert-Butylbenzene	3.137	3.098	1.2	100	0.00
84	T	1,2,4-Trimethylbenzene	3.117	3.138	-0.7	100	0.00
85	T	sec-Butylbenzene	3.808	3.816	-0.2	100	0.00
86	T	p-Isopropyltoluene	3.170	3.213	-1.4	101	0.00
87	T	1,3-Dichlorobenzene	1.621	1.593	1.7	99	0.00
88	T	1,4-Dichlorobenzene	1.667	1.609	3.5	101	0.00
89	T	n-Butylbenzene	2.665	2.836	-6.4	105	0.00
90	T	Hexachloroethane	0.463	0.488	-5.4	101	0.00
91	T	1,2-Dichlorobenzene	1.683	1.602	4.8	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.258	0.268	-3.9	103	0.00
93	T	1,2,4-Trichlorobenzene	0.923	0.996	-7.9	107	0.00
94	T	Hexachlorobutadiene	0.371	0.377	-1.6	107	0.00
95	T	Naphthalene	3.603	3.662	-1.6	100	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.979	1.003	-2.5	103	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	107	0.00
2	T	Dichlorodifluoromethane	50.000	50.390	-0.8	106	0.00
3	P	Chloromethane	50.000	46.681	6.6	98	0.00
4	C	Vinyl Chloride	50.000	47.260	5.5#	99	0.00
5	T	Bromomethane	50.000	45.926	8.1	97	0.00
6	T	Chloroethane	50.000	48.801	2.4	94	0.00
7	T	Trichlorofluoromethane	50.000	50.311	-0.6	105	0.00
8	T	Diethyl Ether	50.000	45.658	8.7	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.374	-0.7	107	0.00
10	T	Methyl Iodide	50.000	46.349	7.3	94	0.00
11	T	Tert butyl alcohol	250.000	233.680	6.5	102	0.00
12	CM	1,1-Dichloroethene	50.000	49.311	1.4#	99	0.00
13	T	Acrolein	250.000	233.162	6.7	96	0.00
14	T	Allyl chloride	50.000	49.744	0.5	98	0.00
15	T	Acrylonitrile	250.000	240.620	3.8	98	0.00
16	T	Acetone	250.000	271.312	-8.5	109	0.00
17	T	Carbon Disulfide	50.000	52.397	-4.8	104	0.00
18	T	Methyl Acetate	50.000	46.725	6.5	96	0.00
19	T	Methyl tert-butyl Ether	50.000	47.940	4.1	97	0.00
20	T	Methylene Chloride	50.000	46.170	7.7	96	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.459	3.1	100	0.00
22	T	Diisopropyl ether	50.000	46.922	6.2	97	0.00
23	T	Vinyl Acetate	250.000	258.510	-3.4	99	0.00
24	P	1,1-Dichloroethane	50.000	48.056	3.9	97	0.00
25	T	2-Butanone	250.000	253.747	-1.5	100	0.00
26	T	2,2-Dichloropropane	50.000	54.872	-9.7	107	0.00
27	T	cis-1,2-Dichloroethene	50.000	46.709	6.6	98	0.00
28	T	Bromochloromethane	50.000	44.832	10.3	93	0.00
29	T	Tetrahydrofuran	250.000	238.031	4.8	98	0.00
30	C	Chloroform	50.000	46.235	7.5#	97	0.00
31	T	Cyclohexane	50.000	49.443	1.1	102	0.00
32	T	1,1,1-Trichloroethane	50.000	49.895	0.2	99	0.00
33	S	1,2-Dichloroethane-d4	50.000	45.646	8.7	93	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35	S	Dibromofluoromethane	50.000	47.228	5.5	91	0.00
36	T	1,1-Dichloropropene	50.000	50.314	-0.6	103	0.00
37	T	Ethyl Acetate	50.000	52.176	-4.4	101	0.00
38	T	Carbon Tetrachloride	50.000	51.763	-3.5	101	0.00
39	T	Methylcyclohexane	50.000	54.761	-9.5	107	0.00
40	TM	Benzene	50.000	49.052	1.9	96	0.00
41	T	Methacrylonitrile	50.000	48.945	2.1	97	0.00
42	TM	1,2-Dichloroethane	50.000	49.960	0.1	97	0.00
43	T	Isopropyl Acetate	50.000	51.624	-3.2	99	0.00
44	TM	Trichloroethene	50.000	49.741	0.5	98	0.00
45	C	1,2-Dichloropropane	50.000	47.528	4.9#	94	0.00
46	T	Dibromomethane	50.000	51.227	-2.5	98	0.00
47	T	Bromodichloromethane	50.000	52.893	-5.8	98	0.00
48	T	Methyl methacrylate	50.000	50.852	-1.7	98	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	923.966	7.6	87	0.00
50	S	Toluene-d8	50.000	48.968	2.1	93	0.00
51	T	4-Methyl-2-Pentanone	250.000	255.038	-2.0	98	0.00
52	CM	Toluene	50.000	49.199	1.6#	97	0.00
53	T	t-1,3-Dichloropropene	50.000	50.864	-1.7	101	0.00
54	T	cis-1,3-Dichloropropene	50.000	53.607	-7.2	97	0.00
55	T	1,1,2-Trichloroethane	50.000	50.562	-1.1	97	0.00
56	T	Ethyl methacrylate	50.000	52.890	-5.8	100	0.00
57	T	1,3-Dichloropropane	50.000	49.165	1.7	96	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	259.586	-3.8	97	0.00
59	T	2-Hexanone	250.000	271.943	-8.8	101	0.00
60	T	Dibromochloromethane	50.000	49.073	1.9	97	0.00
61	T	1,2-Dibromoethane	50.000	51.909	-3.8	99	0.00
62	S	4-Bromofluorobenzene	50.000	50.098	-0.2	94	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	103	0.00
64	T	Tetrachloroethene	50.000	47.702	4.6	101	0.00
65	PM	Chlorobenzene	50.000	48.133	3.7	97	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.396	-2.8	97	0.00
67	C	Ethyl Benzene	50.000	49.461	1.1#	98	0.00
68	T	m/p-Xylenes	100.000	99.896	0.1	98	0.00
69	T	o-Xylene	50.000	49.750	0.5	100	0.00
70	T	Styrene	50.000	51.617	-3.2	100	0.00
71	P	Bromoform	50.000	50.269	-0.5	101	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73	T	Isopropylbenzene	50.000	49.014	2.0	101	0.00
74	T	N-amyl acetate	50.000	52.003	-4.0	101	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	47.676	4.6	100	0.00
76	T	1,2,3-Trichloropropane	50.000	46.544	6.9	97	0.00
77	T	Bromobenzene	50.000	47.335	5.3	98	0.00
78	T	n-propylbenzene	50.000	50.816	-1.6	100	0.00
79	T	2-Chlorotoluene	50.000	47.546	4.9	98	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.431	1.1	100	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	47.861	4.3	105	0.00
82	T	4-Chlorotoluene	50.000	49.178	1.6	100	0.00
83	T	tert-Butylbenzene	50.000	49.384	1.2	100	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.333	-0.7	100	0.00
85	T	sec-Butylbenzene	50.000	50.097	-0.2	100	0.00
86	T	p-Isopropyltoluene	50.000	50.678	-1.4	101	0.00
87	T	1,3-Dichlorobenzene	50.000	49.122	1.8	99	0.00
88	T	1,4-Dichlorobenzene	50.000	48.280	3.4	101	0.00
89	T	n-Butylbenzene	50.000	53.207	-6.4	105	0.00
90	T	Hexachloroethane	50.000	52.727	-5.5	101	0.00
91	T	1,2-Dichlorobenzene	50.000	47.589	4.8	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.864	-3.7	103	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.940	-7.9	107	0.00
94	T	Hexachlorobutadiene	50.000	50.770	-1.5	107	0.00
95	T	Naphthalene	50.000	50.827	-1.7	100	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.244	-2.5	103	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VX044397.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/18/2024 21:48

Lab File ID: VX044397.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.795		2.85	20
Chloromethane	0.739	0.800	0.1	8.25	20
Vinyl Chloride	0.770	0.816		5.97	20
Bromomethane	0.546	0.536		-1.83	20
Chloroethane	0.480	0.583		21.46	20
Trichlorofluoromethane	1.508	1.283		-14.92	20
1,1,2-Trichlorotrifluoroethane	0.610	0.605		-0.82	20
1,1-Dichloroethene	0.560	0.606		8.21	20
Acetone	0.357	0.316		-11.48	20
Carbon Disulfide	1.065	1.175		10.33	20
Methyl tert-butyl Ether	2.187	2.162		-1.14	20
Methyl Acetate	0.922	0.917		-0.54	20
Methylene Chloride	0.671	0.694		3.43	20
trans-1,2-Dichloroethene	0.596	0.622		4.36	20
1,1-Dichloroethane	1.172	1.235	0.1	5.38	20
Cyclohexane	0.946	0.938		-0.85	20
2-Butanone	0.508	0.502		-1.18	20
Carbon Tetrachloride	0.482	0.502		4.15	20
cis-1,2-Dichloroethene	0.756	0.766		1.32	20
Bromochloromethane	0.575	0.549		-4.52	20
Chloroform	1.316	1.307		-0.68	20
1,1,1-Trichloroethane	1.093	1.128		3.2	20
Methylcyclohexane	0.535	0.545		1.87	20
Benzene	1.359	1.475		8.54	20
1,2-Dichloroethane	0.560	0.564		0.71	20
Trichloroethene	0.339	0.355		4.72	20
1,2-Dichloropropane	0.347	0.365		5.19	20
Bromodichloromethane	0.465	0.515		10.75	20
4-Methyl-2-Pentanone	0.556	0.569		2.34	20
Toluene	0.853	0.893		4.69	20
t-1,3-Dichloropropene	0.455	0.481		5.71	20
cis-1,3-Dichloropropene	0.507	0.550		8.48	20
1,1,2-Trichloroethane	0.339	0.364		7.38	20
2-Hexanone	0.403	0.416		3.23	20
Dibromochloromethane	0.326	0.357		9.51	20
1,2-Dibromoethane	0.345	0.374		8.41	20
Tetrachloroethene	0.332	0.350		5.42	20
Chlorobenzene	1.071	1.130	0.3	5.51	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/18/2024 21:48

Lab File ID: VX044397.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.951		5.4	20
m/p-Xylenes	0.679	0.742		9.28	20
o-Xylene	0.687	0.733		6.7	20
Styrene	1.102	1.211		9.89	20
Bromoform	0.219	0.252	0.1	15.07	20
Isopropylbenzene	3.828	4.037		5.46	20
1,1,2,2-Tetrachloroethane	1.329	1.368	0.3	2.93	20
1,3-Dichlorobenzene	1.621	1.711		5.55	20
1,4-Dichlorobenzene	1.667	1.693		1.56	20
1,2-Dichlorobenzene	1.684	1.757		4.34	20
1,2-Dibromo-3-Chloropropane	0.258	0.249		-3.49	20
1,2,4-Trichlorobenzene	0.923	0.990		7.26	20
1,2,3-Trichlorobenzene	0.979	1.012		3.37	20
1,2-Dichloroethane-d4	0.877	0.798		-9.01	20
Dibromofluoromethane	0.346	0.354		2.31	20
Toluene-d8	1.168	1.174		0.51	20
4-Bromofluorobenzene	0.408	0.401		-1.72	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Sample Results: **VX044397.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044397.D
Acq On : 18 Dec 2024 21:48
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 00:54:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	135217	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	239936	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	204282	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	94679	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	107888	45.507	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 91.020%			
35) Dibromofluoromethane	5.379	113	85012	51.157	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.320%			
50) Toluene-d8	8.647	98	281622	50.233	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.460%			
62) 4-Bromofluorobenzene	11.079	95	96109	49.060	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.120%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	107432	51.383	ug/l	98
3) Chloromethane	1.295	50	108198	54.116	ug/l	100
4) Vinyl Chloride	1.374	62	110360	52.982	ug/l	98
5) Bromomethane	1.593	94	72410	49.001	ug/l	99
6) Chloroethane	1.666	64	78870	60.808	ug/l	97
7) Trichlorofluoromethane	1.868	101	173515	42.551	ug/l	99
8) Diethyl Ether	2.130	74	68057	48.894	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	81792	49.568	ug/l	98
10) Methyl Iodide	2.441	142	120260	55.298	ug/l	97
11) Tert butyl alcohol	2.989	59	77901	233.146	ug/l	98
12) 1,1-Dichloroethene	2.307	96	81977	54.088	ug/l	98
13) Acrolein	2.233	56	139192	287.785	ug/l	99
14) Allyl chloride	2.654	41	132780	52.597	ug/l	97
15) Acrylonitrile	3.069	53	244567	264.238	ug/l	99
16) Acetone	2.386	43	213764	221.165	ug/l	98
17) Carbon Disulfide	2.502	76	158857	55.140	ug/l	99
18) Methyl Acetate	2.709	43	124059	49.781	ug/l	95
19) Methyl tert-butyl Ether	3.117	73	292313	49.423	ug/l	99
20) Methylene Chloride	2.782	84	93795	51.666	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	84135	52.232	ug/l	96
22) Diisopropyl ether	3.764	45	287589	50.590	ug/l	97
23) Vinyl Acetate	3.721	43	1248223	270.083	ug/l	98
24) 1,1-Dichloroethane	3.605	63	166932	52.681	ug/l	99
25) 2-Butanone	4.562	43	339552	247.114	ug/l	98
26) 2,2-Dichloropropane	4.471	77	111451	43.294	ug/l	94
27) cis-1,2-Dichloroethene	4.483	96	103578	50.631	ug/l	96
28) Bromochloromethane	4.891	49	74260	47.791	ug/l	99
29) Tetrahydrofuran	5.007	42	217698	246.831	ug/l	99
30) Chloroform	5.093	83	176742	49.644	ug/l	100
31) Cyclohexane	5.458	56	126871	49.582	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	152533	51.614	ug/l	100
36) 1,1-Dichloropropene	5.690	75	110493	51.438	ug/l	98
37) Ethyl Acetate	4.721	43	136208	51.297	ug/l	98
38) Carbon Tetrachloride	5.672	117	120403	52.064	ug/l	95
39) Methylcyclohexane	7.379	83	130669	50.884	ug/l	97
40) Benzene	6.031	78	353789	54.246	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044397.D
Acq On : 18 Dec 2024 21:48
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 19 00:54:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	74342	52.726	ug/l		97
42) 1,2-Dichloroethane	6.080	62	135405	50.400	ug/l		97
43) Isopropyl Acetate	6.342	43	215421	51.907	ug/l		98
44) Trichloroethene	7.123	130	85228	52.403	ug/l		99
45) 1,2-Dichloropropane	7.428	63	87563	52.551	ug/l		95
46) Dibromomethane	7.580	93	68412	52.923	ug/l		95
47) Bromodichloromethane	7.824	83	123638	55.381	ug/l		99
48) Methyl methacrylate	7.696	41	100291	49.782	ug/l		96
49) 1,4-Dioxane	7.665	88	25452	762.005	ug/l	#	77
51) 4-Methyl-2-Pentanone	8.574	43	682557	255.786	ug/l		98
52) Toluene	8.720	92	214145	52.287	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	115357	48.259	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	131957	54.285	ug/l		100
55) 1,1,2-Trichloroethane	9.153	97	87322	53.669	ug/l		97
56) Ethyl methacrylate	9.116	69	136992	53.333	ug/l		96
57) 1,3-Dichloropropane	9.305	76	147976	52.251	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	319257	246.430	ug/l		100
59) 2-Hexanone	9.433	43	498511	258.095	ug/l		99
60) Dibromochloromethane	9.519	129	85744	49.779	ug/l		100
61) 1,2-Dibromoethane	9.610	107	89694	54.158	ug/l		97
64) Tetrachloroethene	9.275	164	71547	52.769	ug/l		96
65) Chlorobenzene	10.079	112	230882	52.745	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	79028	56.175	ug/l		98
67) Ethyl Benzene	10.195	91	398506	52.690	ug/l		96
68) m/p-Xylenes	10.299	106	303258	109.271	ug/l		96
69) o-Xylene	10.640	106	149680	53.305	ug/l		97
70) Styrene	10.653	104	247455	54.971	ug/l		97
71) Bromoform	10.799	173	51387	52.002	ug/l	#	99
73) Isopropylbenzene	10.964	105	382227	52.735	ug/l		99
74) N-amyl acetate	10.842	43	175282	52.327	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	129501	51.441	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	106791m	50.517	ug/l		
77) Bromobenzene	11.195	156	91662	52.151	ug/l		98
78) n-propylbenzene	11.305	91	428354	53.471	ug/l		99
79) 2-Chlorotoluene	11.366	91	259611	50.109	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	312728	52.028	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	32905	45.206	ug/l		97
82) 4-Chlorotoluene	11.451	91	296313	51.648	ug/l		100
83) tert-Butylbenzene	11.713	119	315339	53.085	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	314902	53.346	ug/l		99
85) sec-Butylbenzene	11.890	105	378572	52.496	ug/l		99
86) p-Isopropyltoluene	12.006	119	308993	51.481	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	161986	52.762	ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	160295	50.790	ug/l		98
89) n-Butylbenzene	12.329	91	265516	52.608	ug/l		99
90) Hexachloroethane	12.536	117	48574	55.440	ug/l		96
91) 1,2-Dichlorobenzene	12.335	146	166397	52.197	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	23556	48.201	ug/l		92
93) 1,2,4-Trichlorobenzene	13.585	180	93745	53.639	ug/l		97
94) Hexachlorobutadiene	13.725	225	37797	53.766	ug/l		98
95) Naphthalene	13.774	128	341241	50.021	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	95779	51.669	ug/l		98

Sample Results: **VX044397.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044397.D
Acq On : 18 Dec 2024 21:48
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 00:54:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

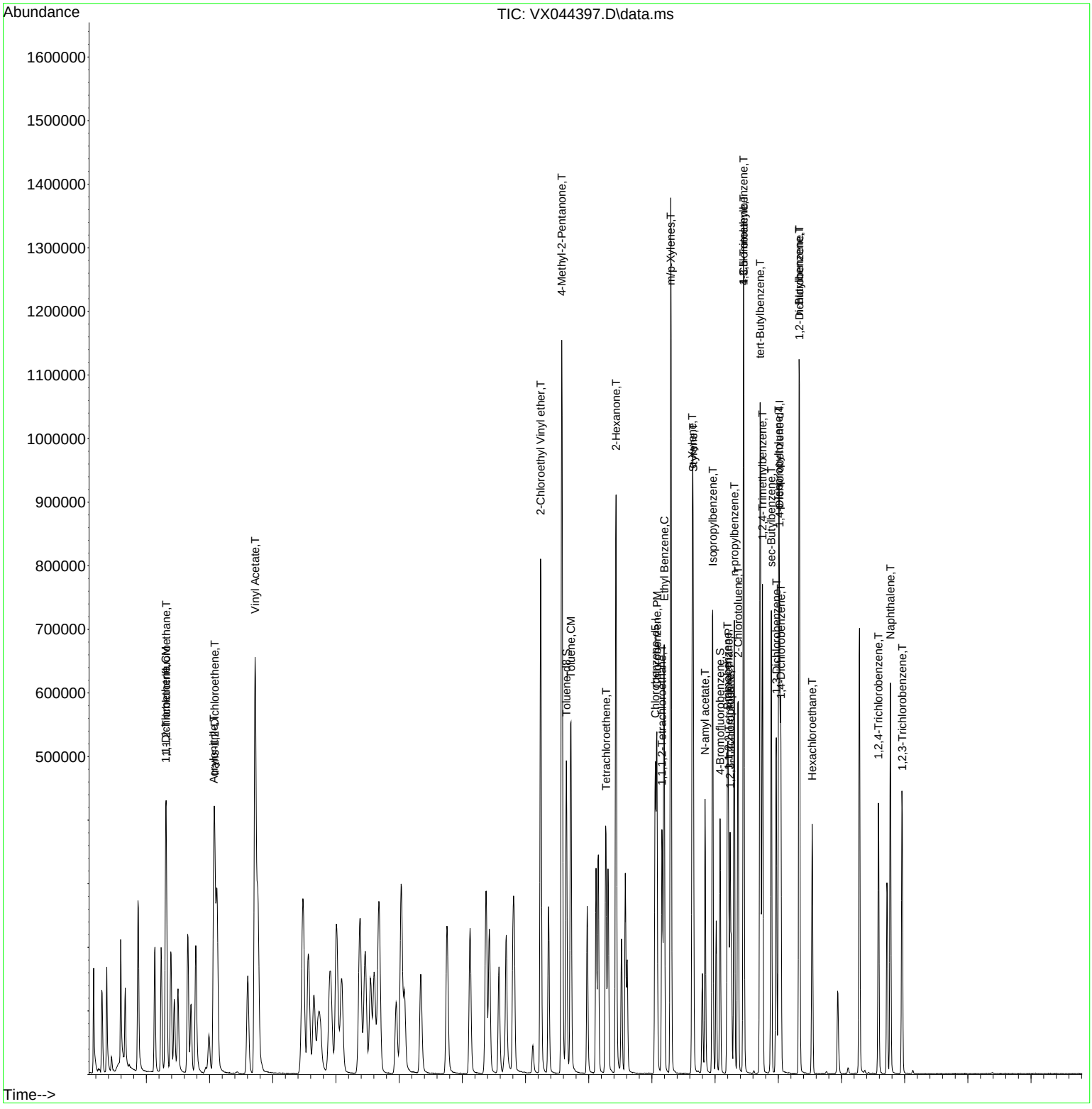
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044397.D
Acq On : 18 Dec 2024 21:48
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

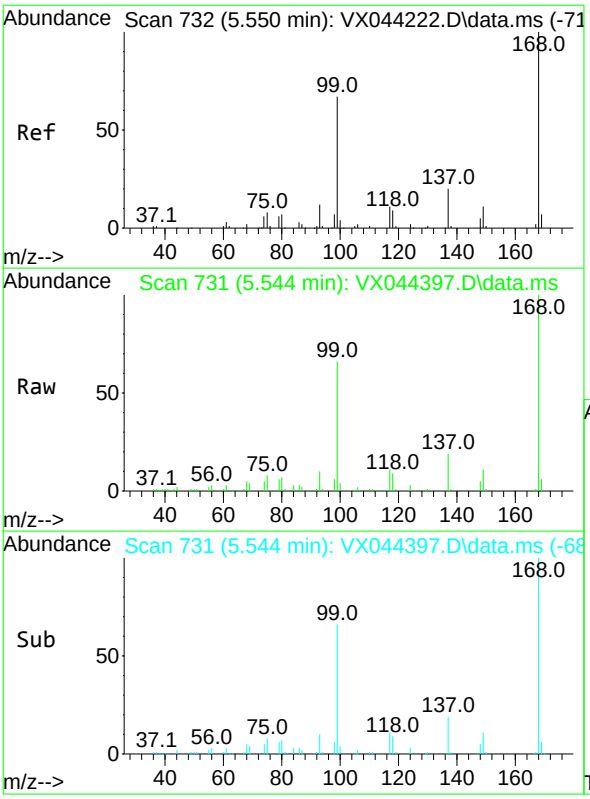
Quant Time: Dec 19 00:54:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

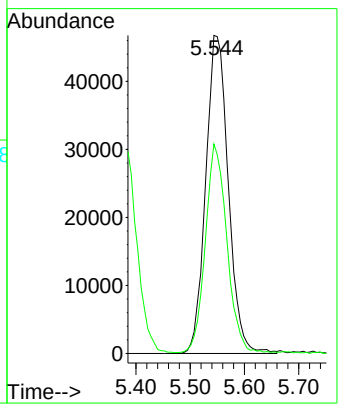




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:168 Resp: 135217

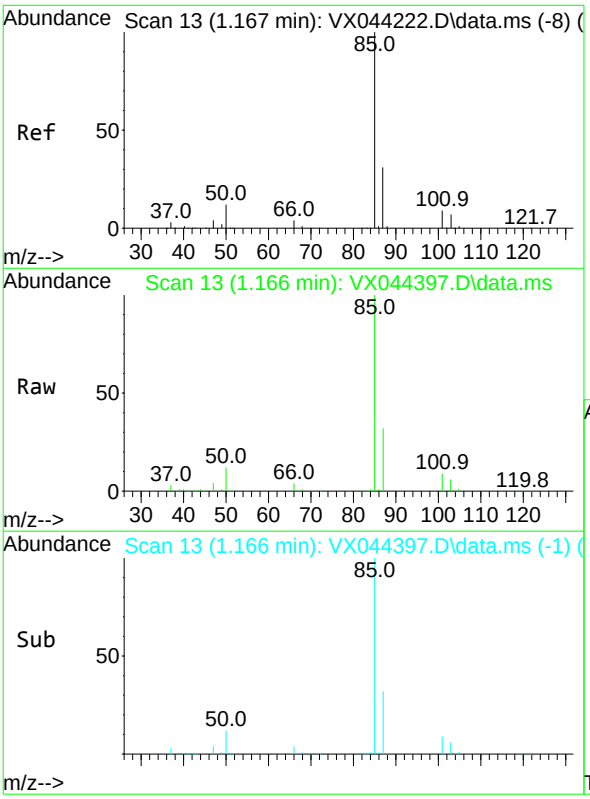
Ion	Ratio	Lower	Upper
168	100		
99	65.5	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

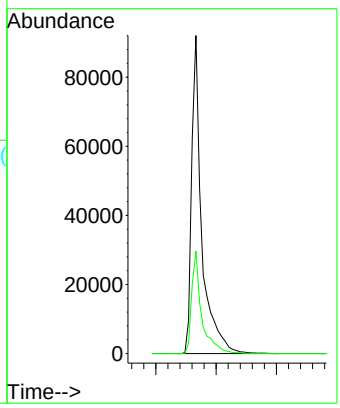
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

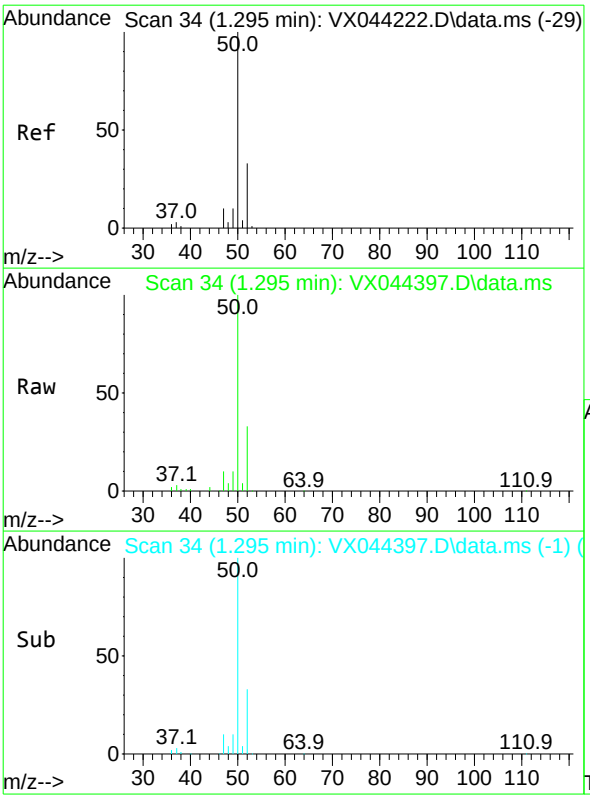


#2
Dichlorodifluoromethane
Concen: 51.383 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 85 Resp: 107432

Ion	Ratio	Lower	Upper
85	100		
87	32.2	15.4	46.4

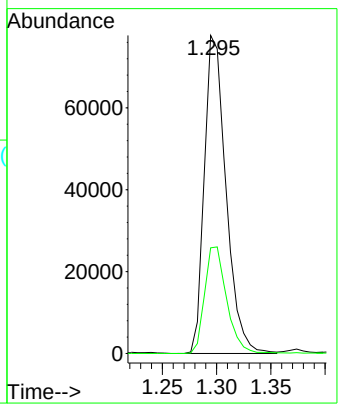




#3
Chloromethane
Concen: 54.116 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 50 Resp: 108198

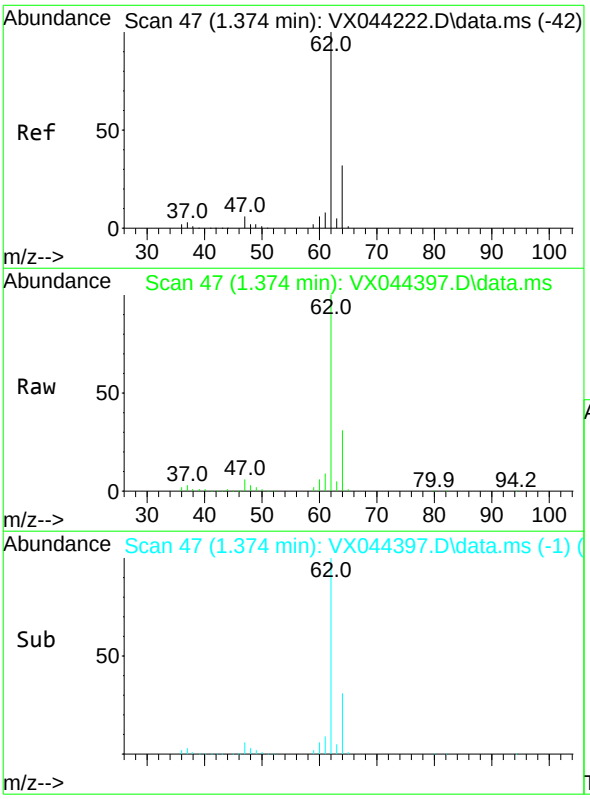
Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

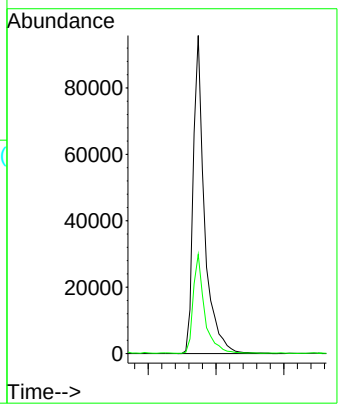
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

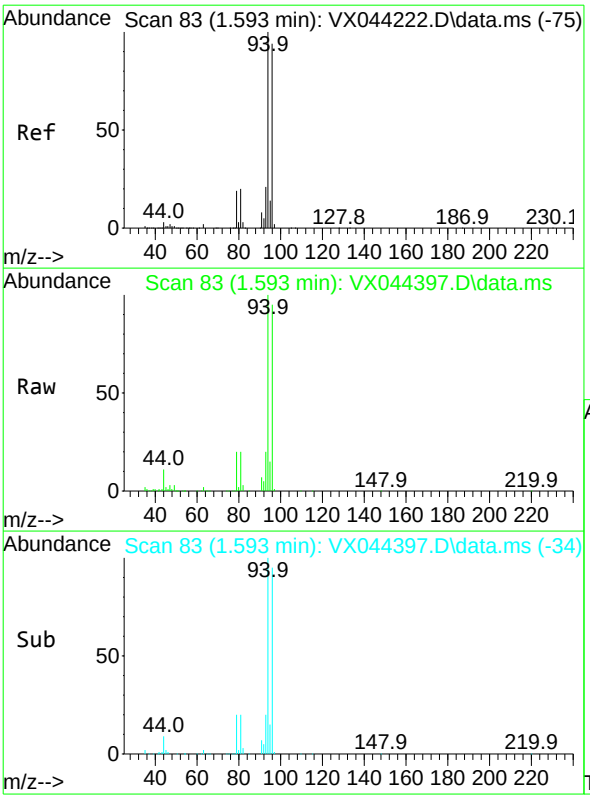


#4
Vinyl Chloride
Concen: 52.982 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 62 Resp: 110360

Ion	Ratio	Lower	Upper
62	100		
64	31.1	25.7	38.5

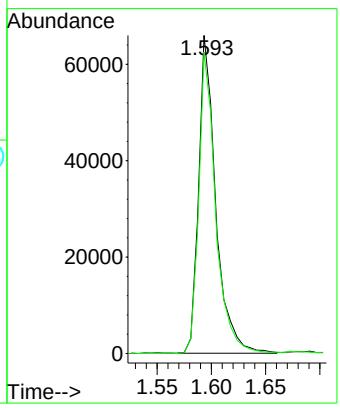




#5
Bromomethane
Concen: 49.001 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 94 Resp: 72410

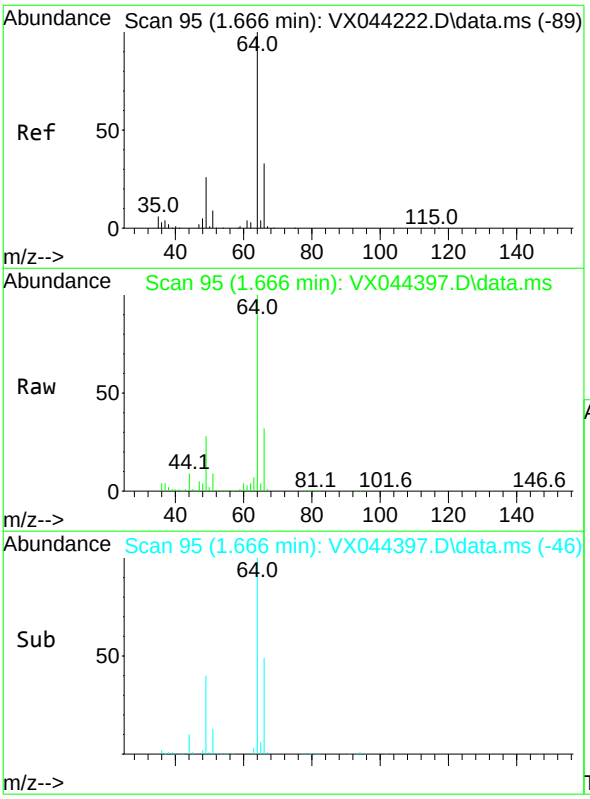
Ion	Ratio	Lower	Upper
94	100		
96	94.8	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

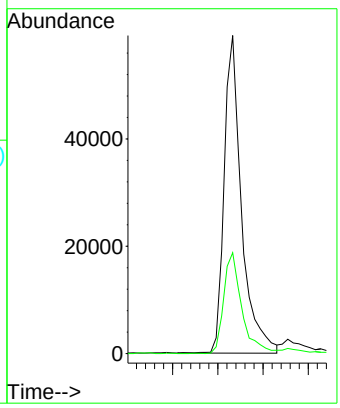
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

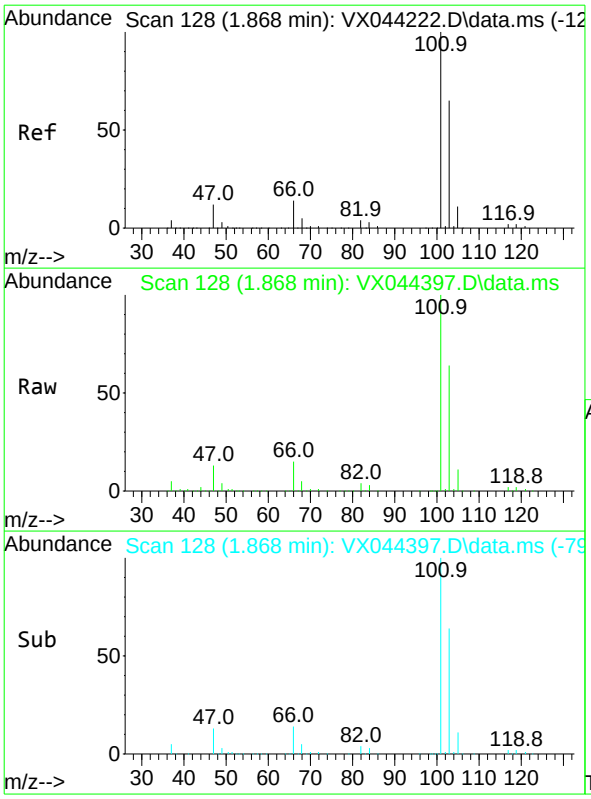


#6
Chloroethane
Concen: 60.808 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 64 Resp: 78870

Ion	Ratio	Lower	Upper
64	100		
66	31.8	26.6	39.8

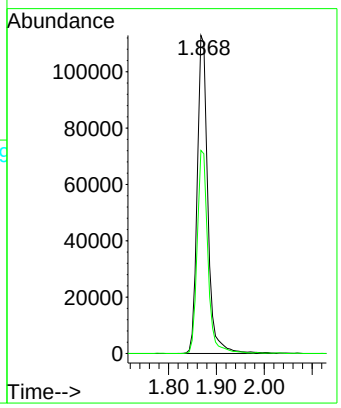




#7
Trichlorofluoromethane
Concen: 42.551 ug/l
RT: 1.868 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:101 Resp: 173515

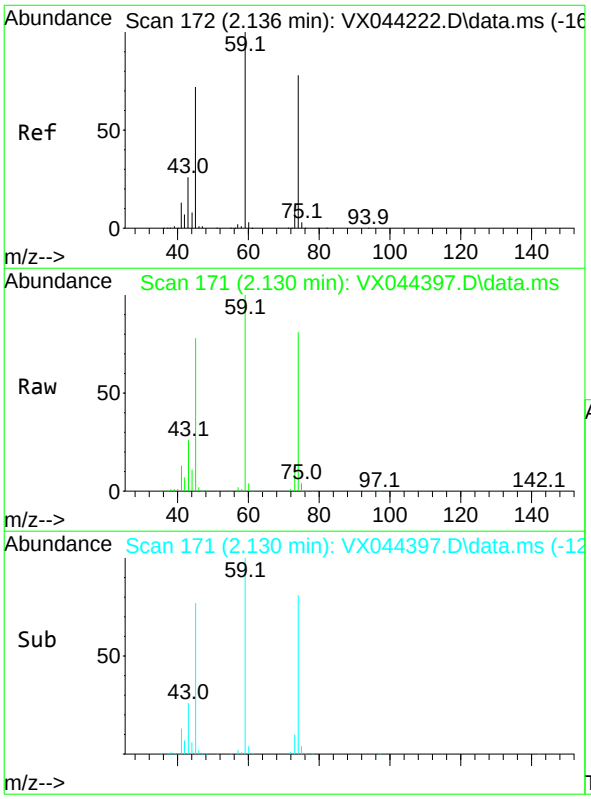
Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

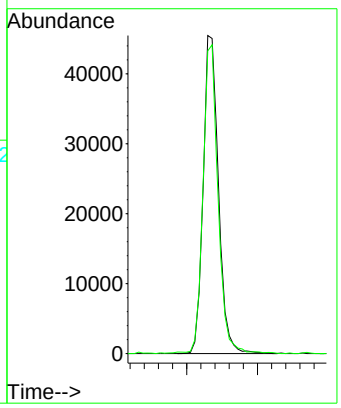
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

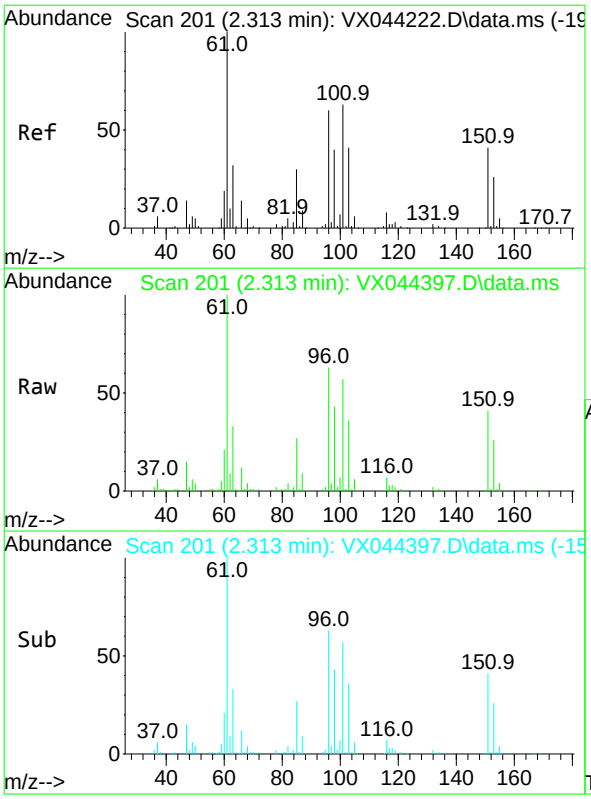


#8
Diethyl Ether
Concen: 48.894 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 74 Resp: 68057

Ion	Ratio	Lower	Upper
74	100		
45	96.2	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.568 ug/l
RT: 2.313 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

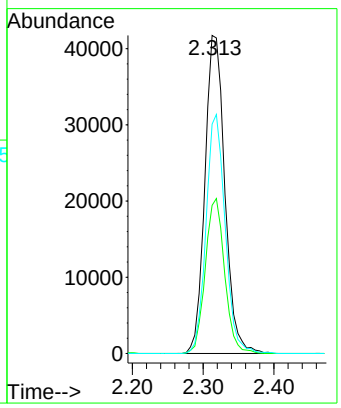
Tgt Ion:101 Resp: 81792

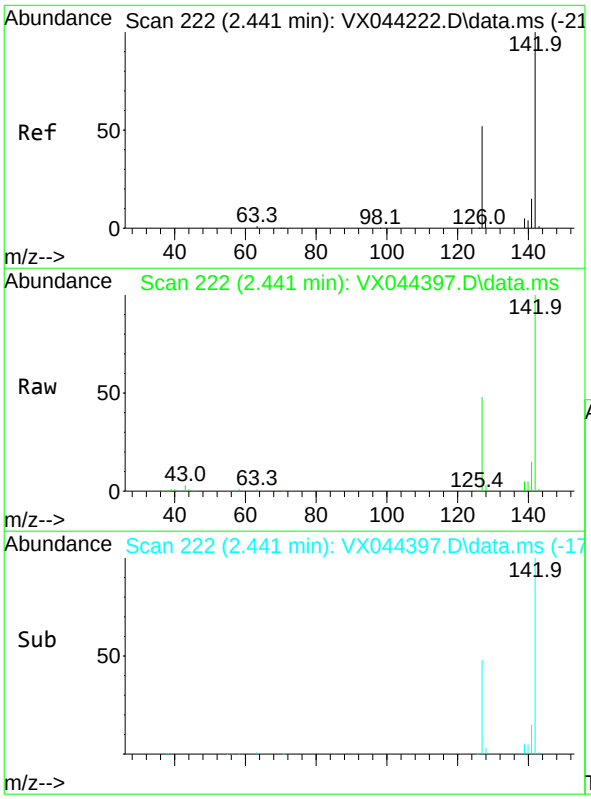
Ion	Ratio	Lower	Upper
101	100		
85	47.2	38.5	57.7
151	72.2	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

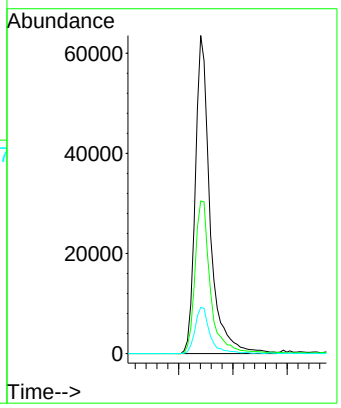


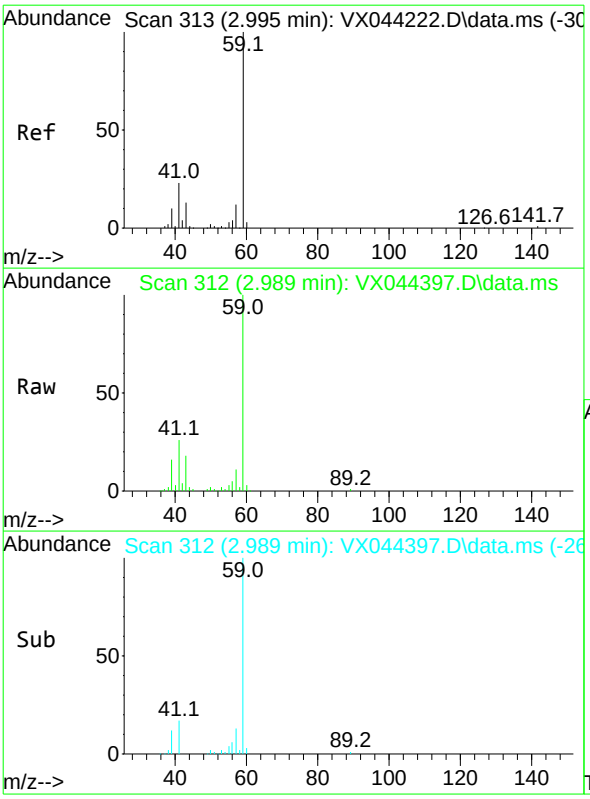


#10
Methyl Iodide
Concen: 55.298 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:142 Resp: 120260

Ion	Ratio	Lower	Upper
142	100		
127	50.0	41.8	62.8
141	14.8	11.5	17.3

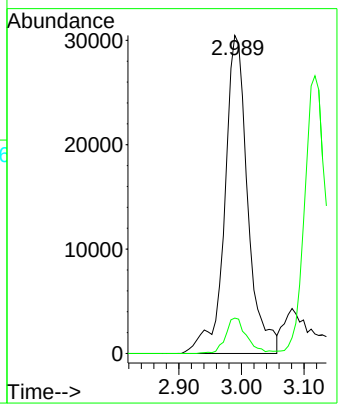




#11
Tert butyl alcohol
Concen: 233.146 ug/l
RT: 2.989 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 59 Resp: 77901

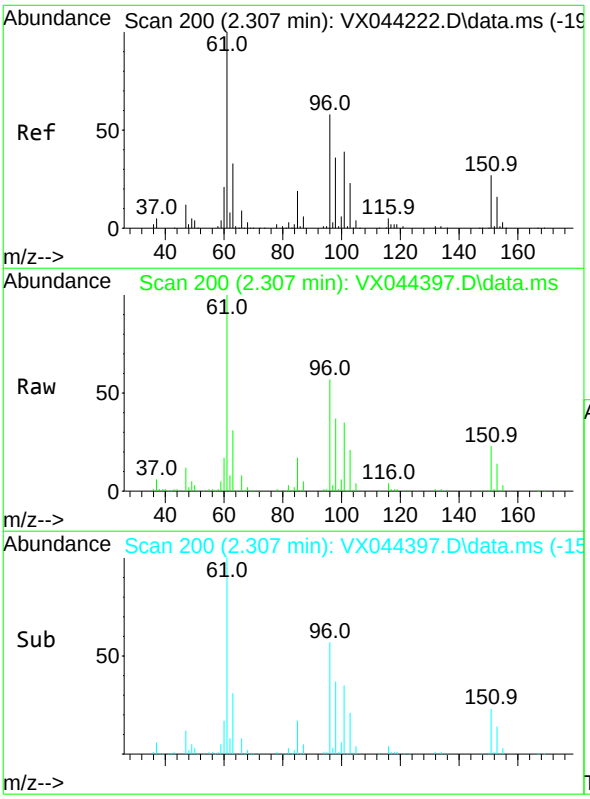
Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

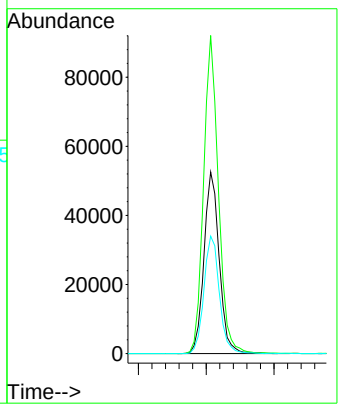
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

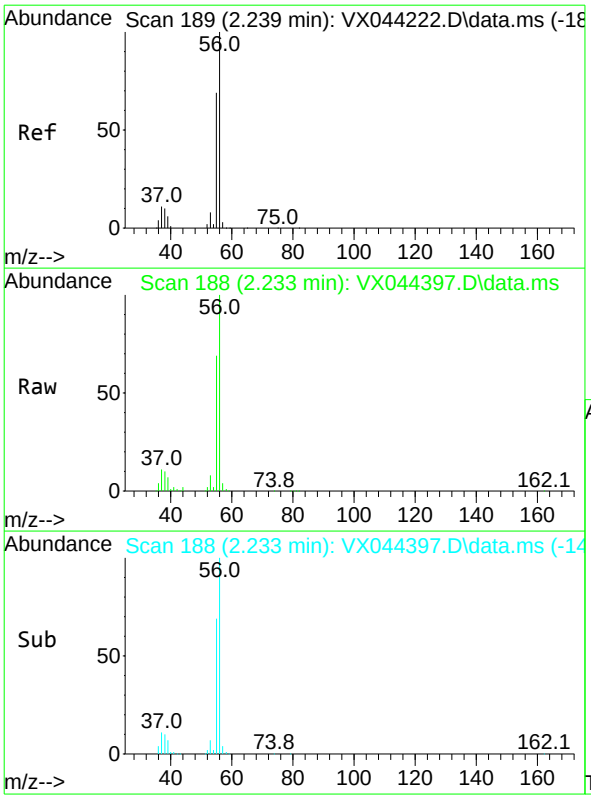


#12
1,1-Dichloroethene
Concen: 54.088 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 96 Resp: 81977

Ion	Ratio	Lower	Upper
96	100		
61	175.1	138.0	207.0
98	64.7	50.0	75.0

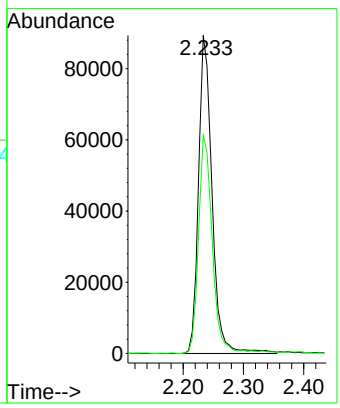




#13
Acrolein
Concen: 287.785 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 56 Resp: 139192

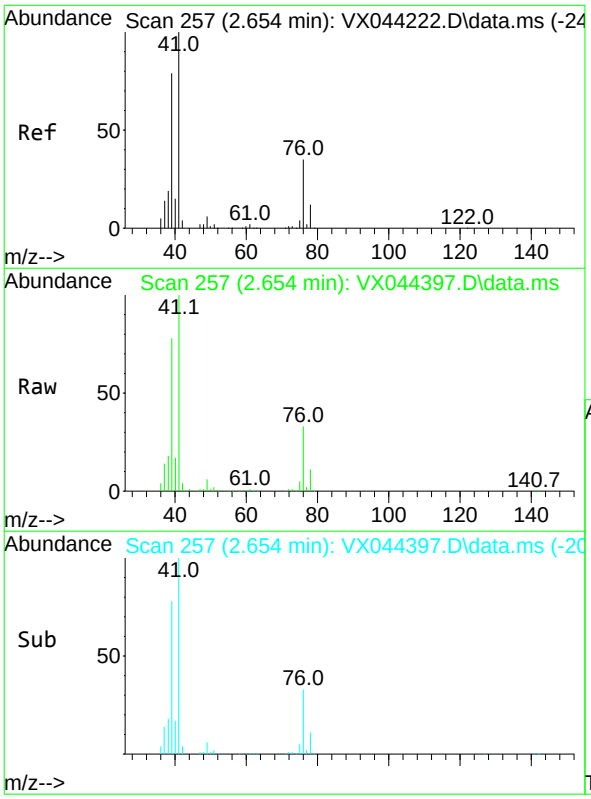
Ion	Ratio	Lower	Upper
56	100		
55	69.7	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

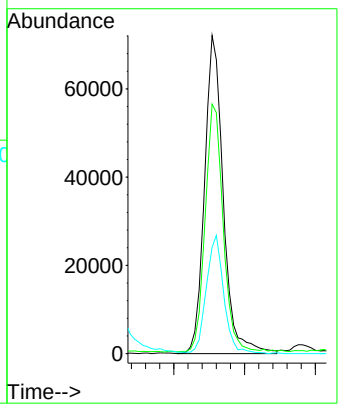
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

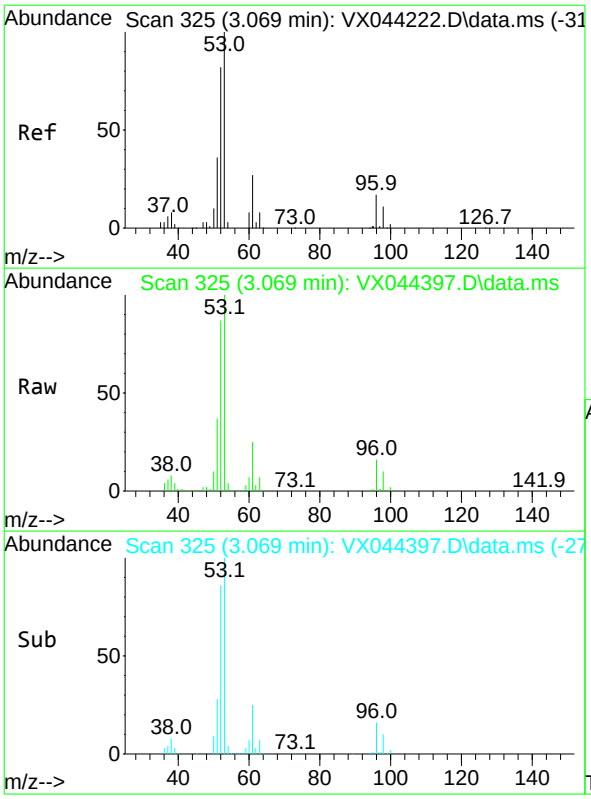


#14
Allyl chloride
Concen: 52.597 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 41 Resp: 132780

Ion	Ratio	Lower	Upper
41	100		
39	74.3	61.9	92.9
76	34.6	27.4	41.2

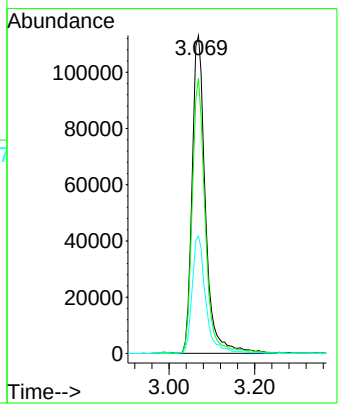




#15
Acrylonitrile
Concen: 264.238 ug/l
RT: 3.069 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 53 Resp: 244567

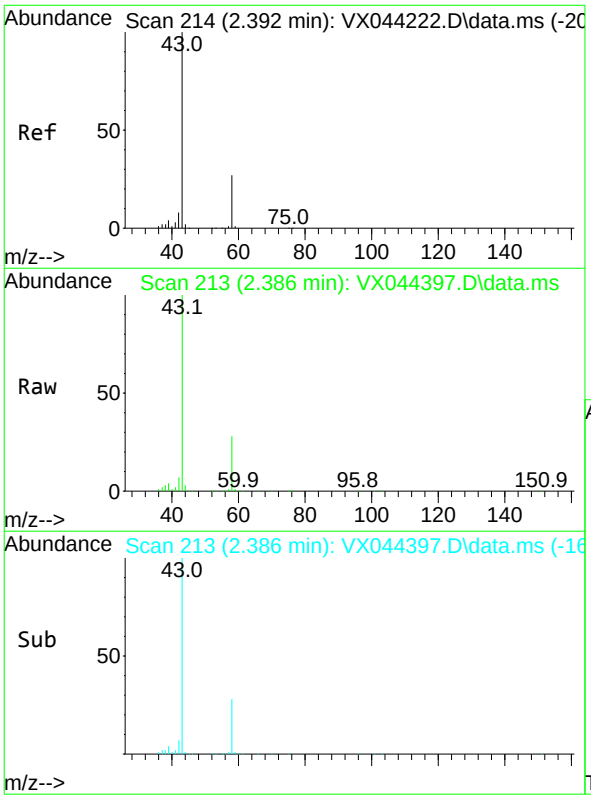
Ion	Ratio	Lower	Upper
53	100		
52	84.6	67.4	101.0
51	37.4	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

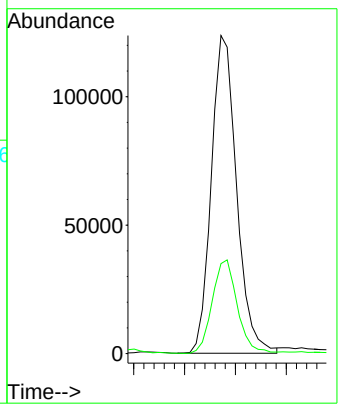
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

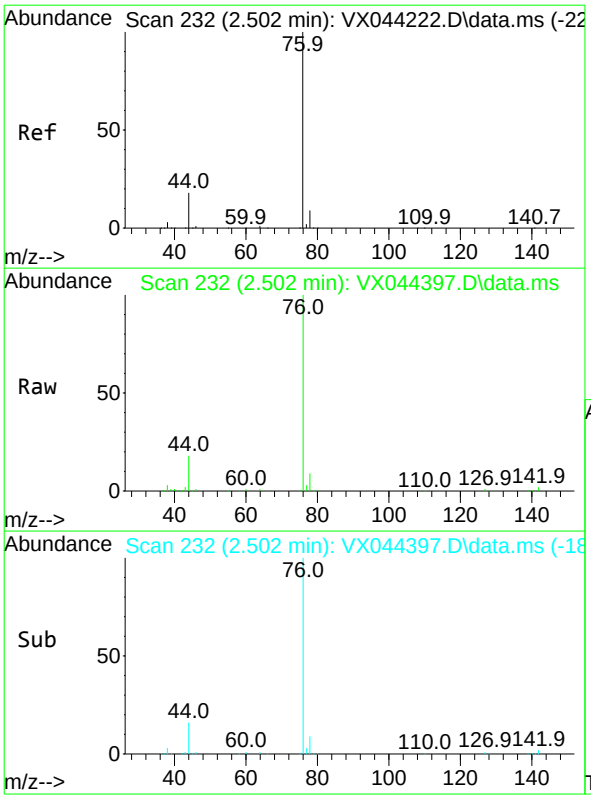


#16
Acetone
Concen: 221.165 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 43 Resp: 213764

Ion	Ratio	Lower	Upper
43	100		
58	28.2	21.6	32.4





#17
Carbon Disulfide
Concen: 55.140 ug/l
RT: 2.502 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

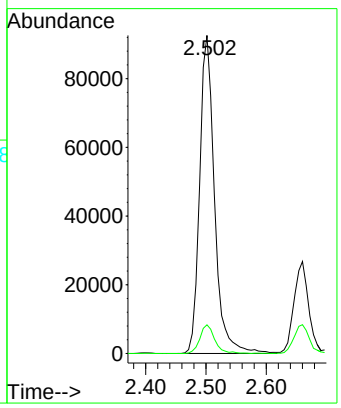
Tgt Ion: 76 Resp: 158857

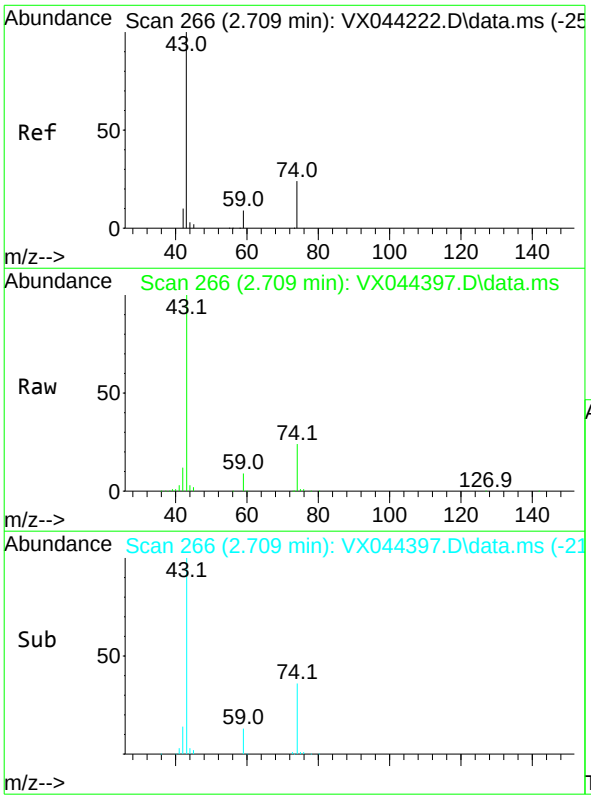
Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

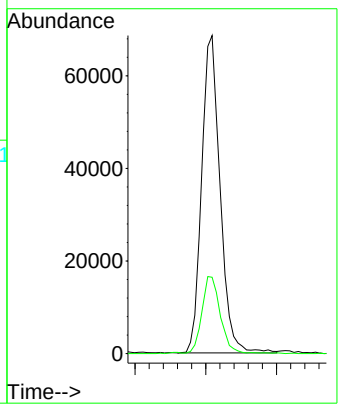


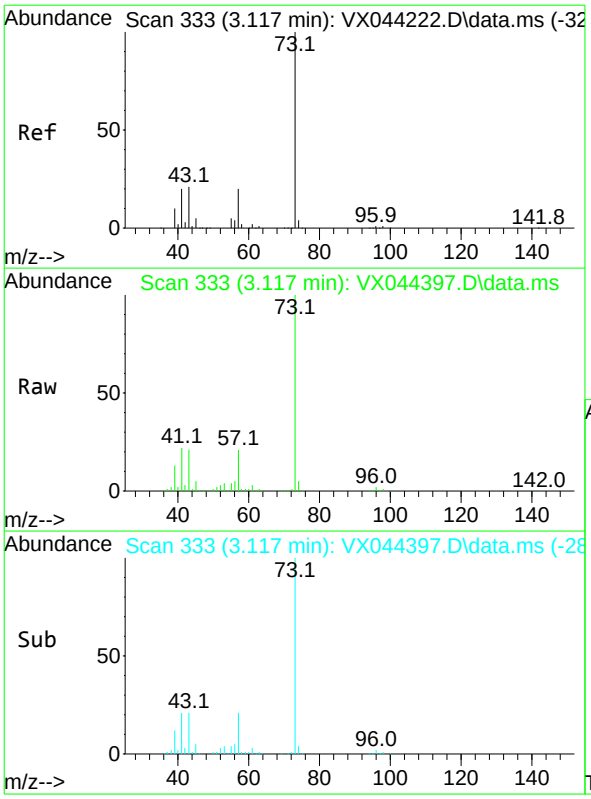


#18
Methyl Acetate
Concen: 49.781 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 43 Resp: 124059

Ion	Ratio	Lower	Upper
43	100		
74	24.4	17.7	26.5

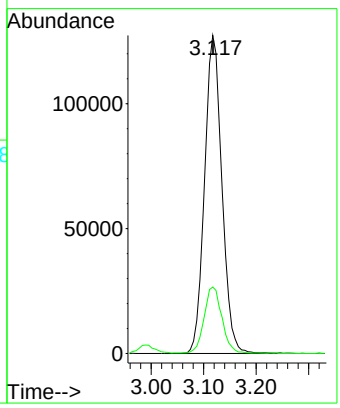




#19
Methyl tert-butyl Ether
Concen: 49.423 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 73 Resp: 292313

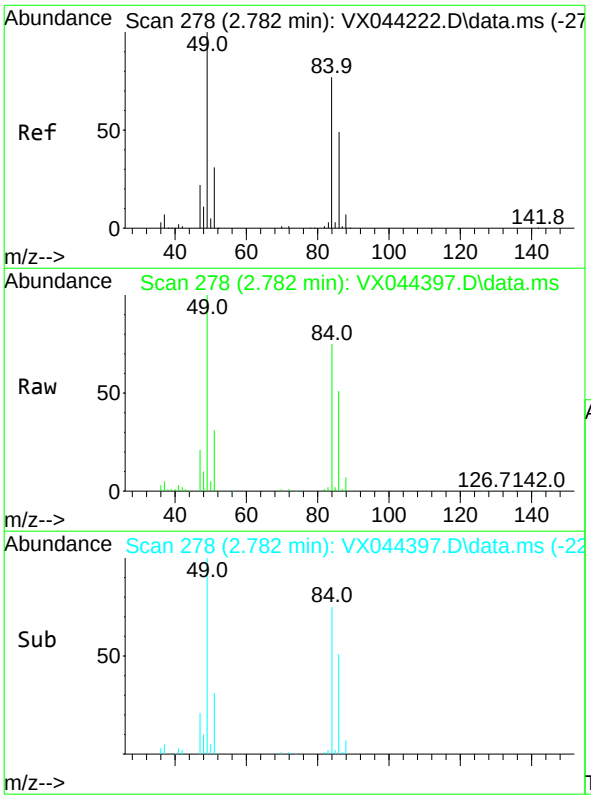
Ion	Ratio	Lower	Upper
73	100		
57	20.8	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

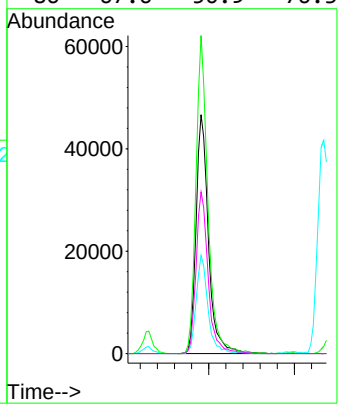
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

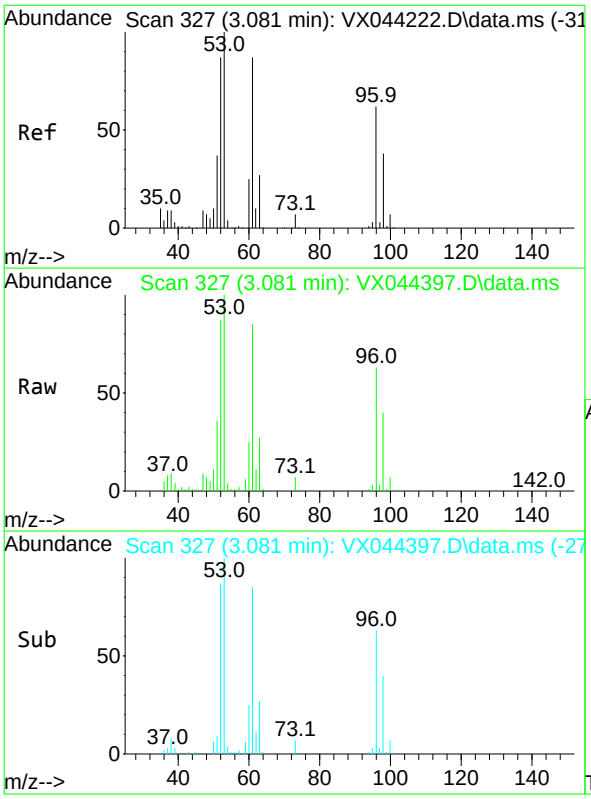


#20
Methylene Chloride
Concen: 51.666 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 84 Resp: 93795

Ion	Ratio	Lower	Upper
84	100		
49	133.2	104.2	156.4
51	41.1	32.2	48.4
86	67.6	50.9	76.3





#21
trans-1,2-Dichloroethene
Concen: 52.232 ug/l
RT: 3.081 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

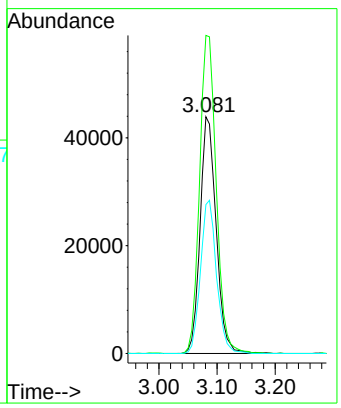
Tgt Ion: 96 Resp: 84135

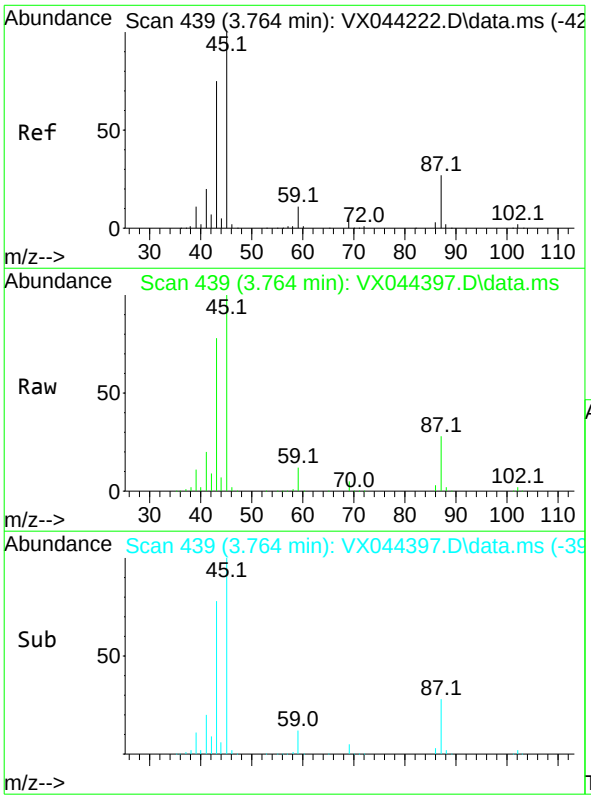
Ion	Ratio	Lower	Upper
96	100		
61	134.4	112.0	168.0
98	62.9	48.8	73.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

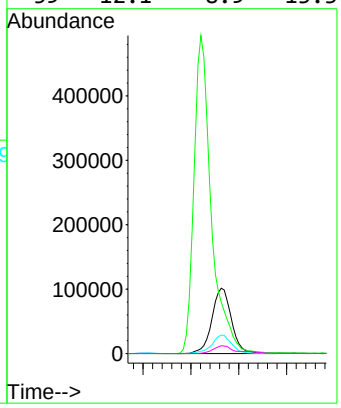


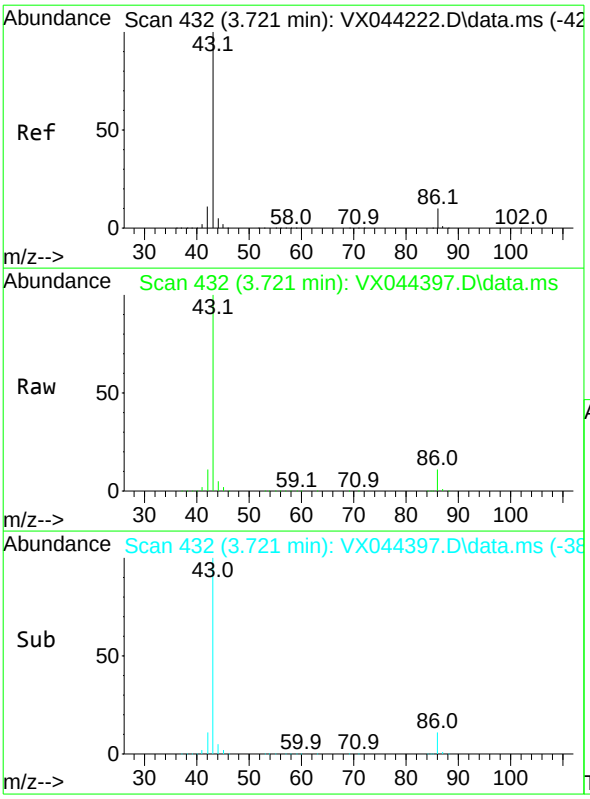


#22
Diisopropyl ether
Concen: 50.590 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 45 Resp: 287589

Ion	Ratio	Lower	Upper
45	100		
43	78.2	60.2	90.2
87	28.2	21.2	31.8
59	12.1	8.9	13.3





#23
Vinyl Acetate
Concen: 270.083 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

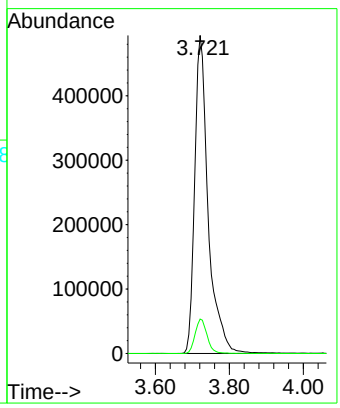
Tgt Ion: 43 Resp: 1248223

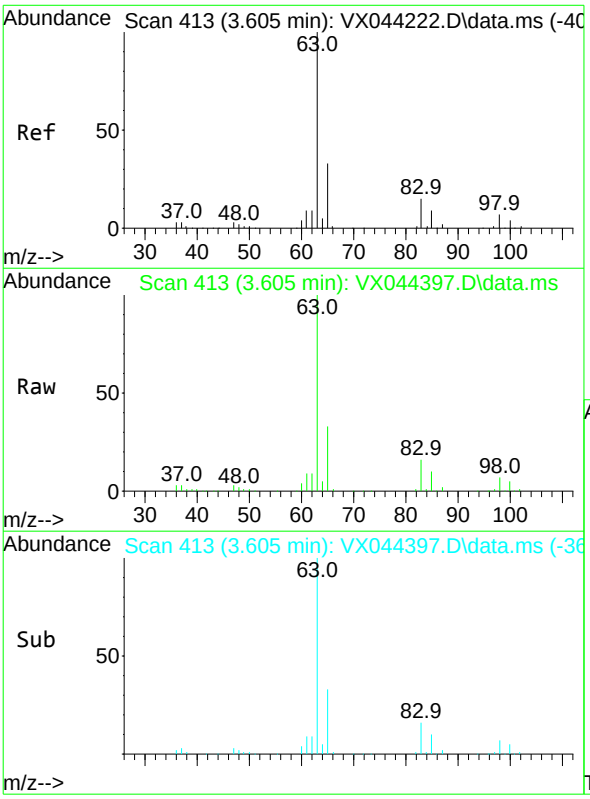
Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.2	12.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

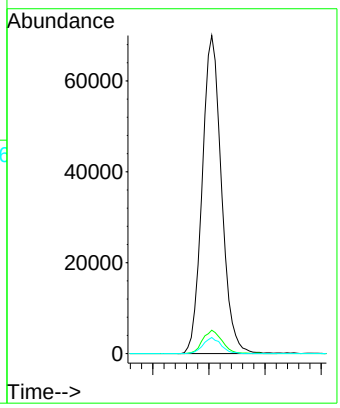


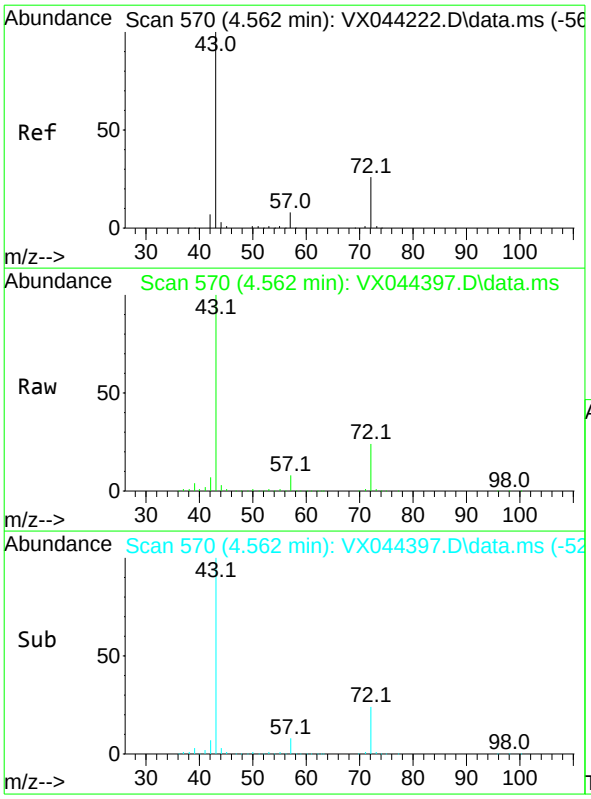


#24
1,1-Dichloroethane
Concen: 52.681 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 63 Resp: 166932

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.6	10.8
100	5.1	2.1	6.3

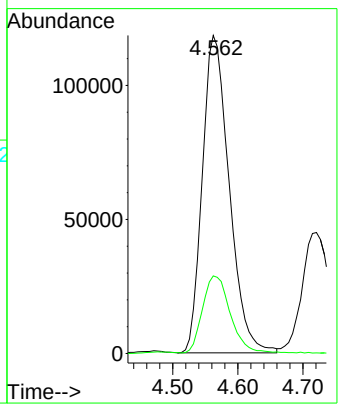




#25
2-Butanone
Concen: 247.114 ug/l
RT: 4.562 min Scan# 57
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 43 Resp: 339552

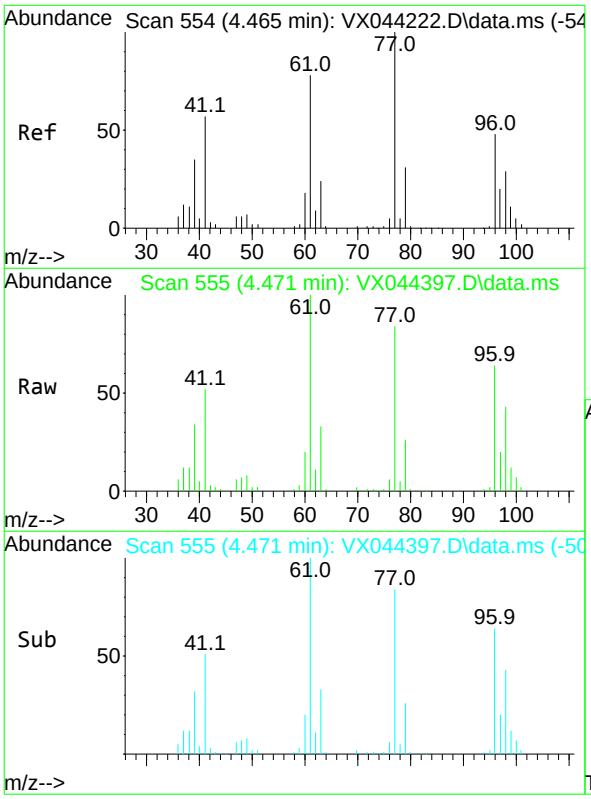
Ion	Ratio	Lower	Upper
43	100		
72	24.2	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

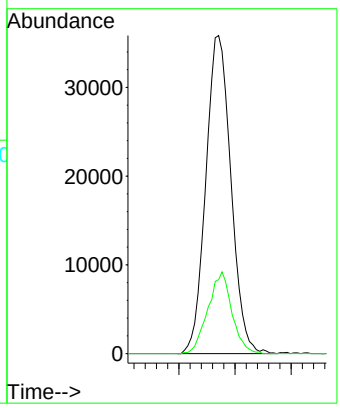
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

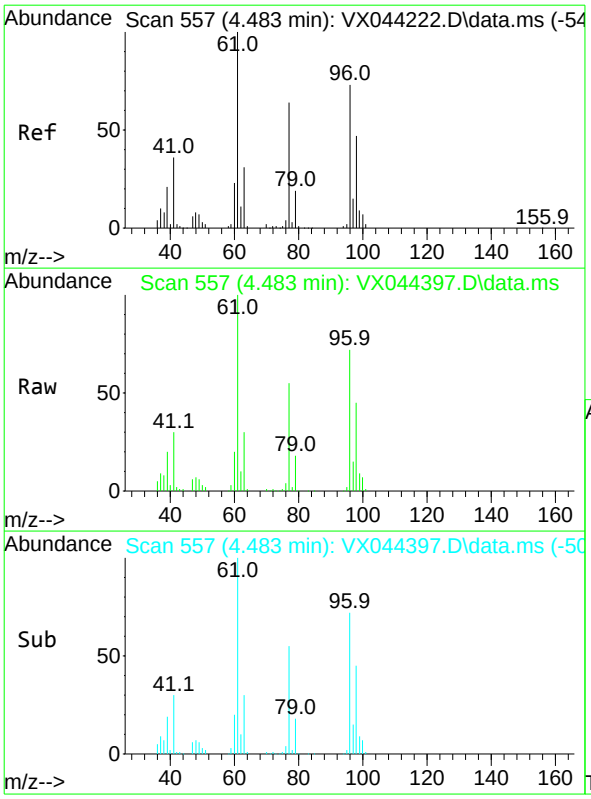


#26
2,2-Dichloropropane
Concen: 43.294 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 77 Resp: 111451

Ion	Ratio	Lower	Upper
77	100		
97	24.4	10.7	32.1

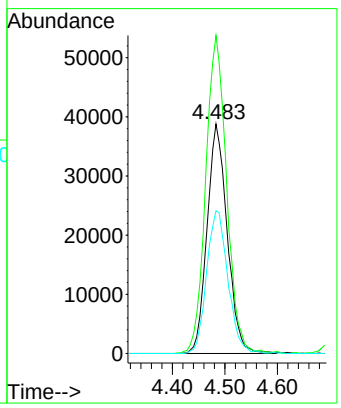




#27
cis-1,2-Dichloroethene
Concen: 50.631 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 96 Resp: 103578

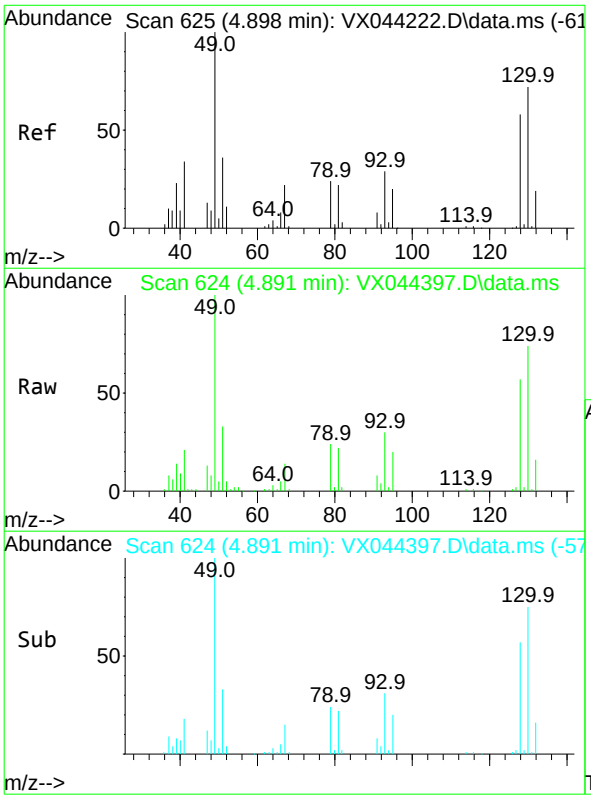
Ion	Ratio	Lower	Upper
96	100		
61	143.4	0.0	299.0
98	65.7	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

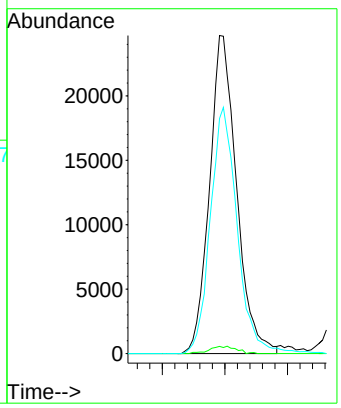
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

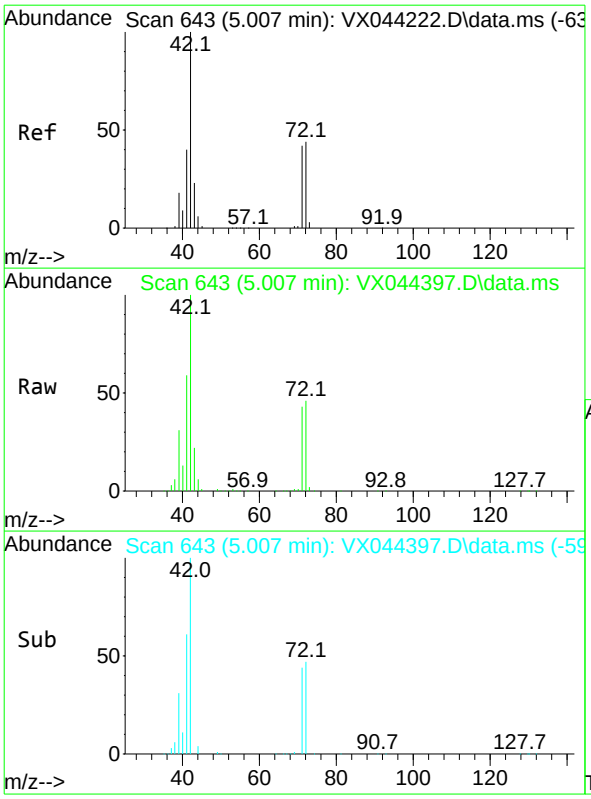


#28
Bromochloromethane
Concen: 47.791 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 49 Resp: 74260

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	77.0	62.1	93.1

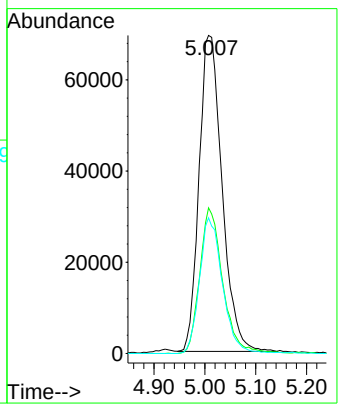




#29
Tetrahydrofuran
Concen: 246.831 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 42 Resp: 217698

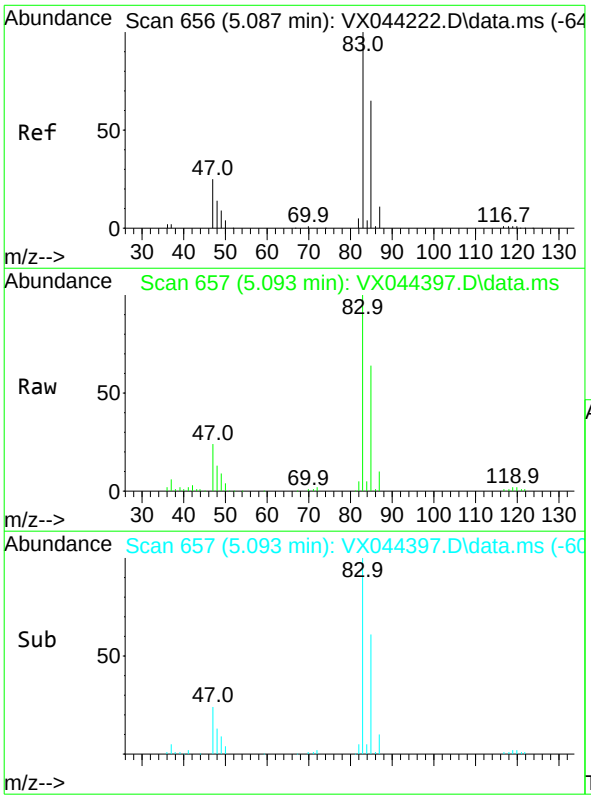
Ion	Ratio	Lower	Upper
42	100		
72	46.0	37.0	55.6
71	42.8	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

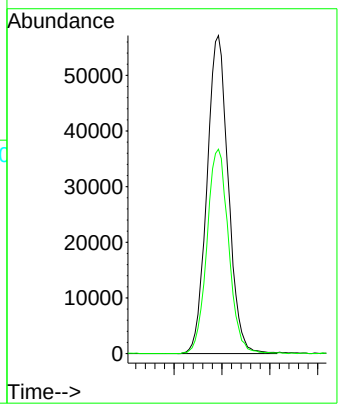
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

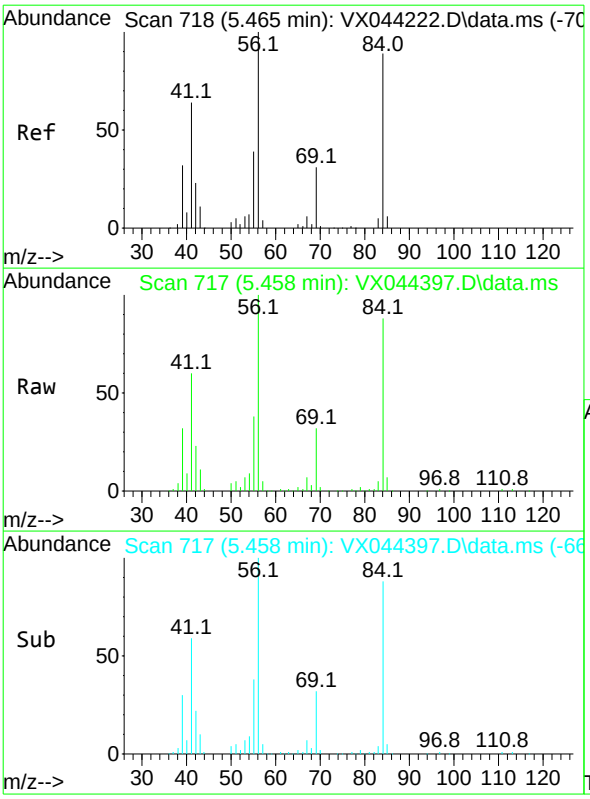


#30
Chloroform
Concen: 49.644 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 83 Resp: 176742

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.6	77.4





#31
Cyclohexane
Concen: 49.582 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

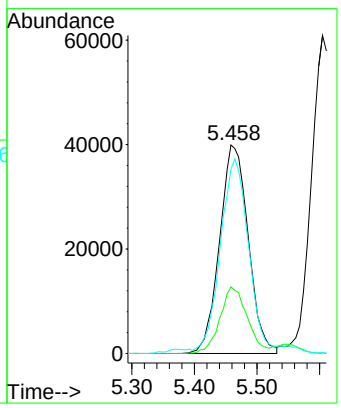
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

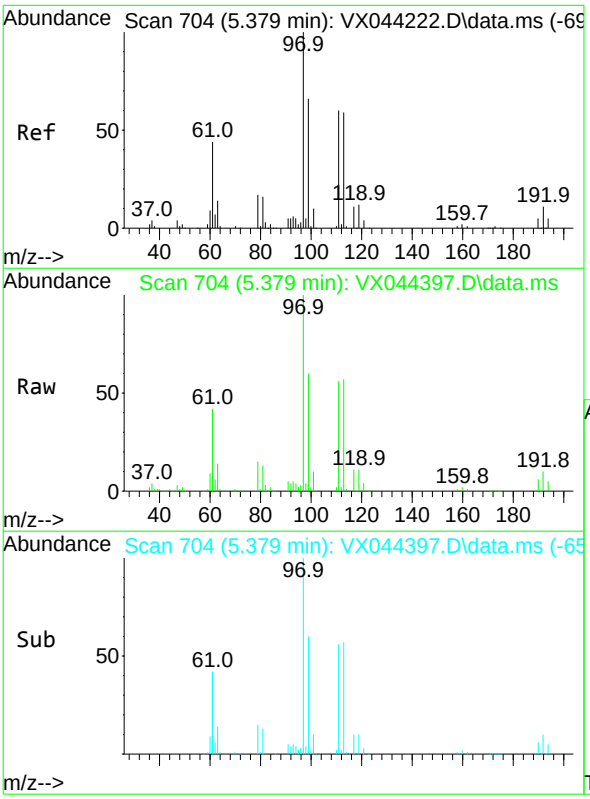
Tgt Ion: 56 Resp: 126871

Ion	Ratio	Lower	Upper
56	100		
69	31.9	24.7	37.1
84	86.3	71.0	106.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

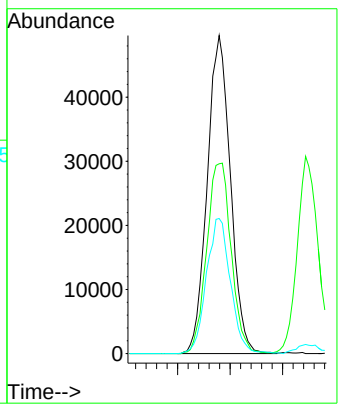


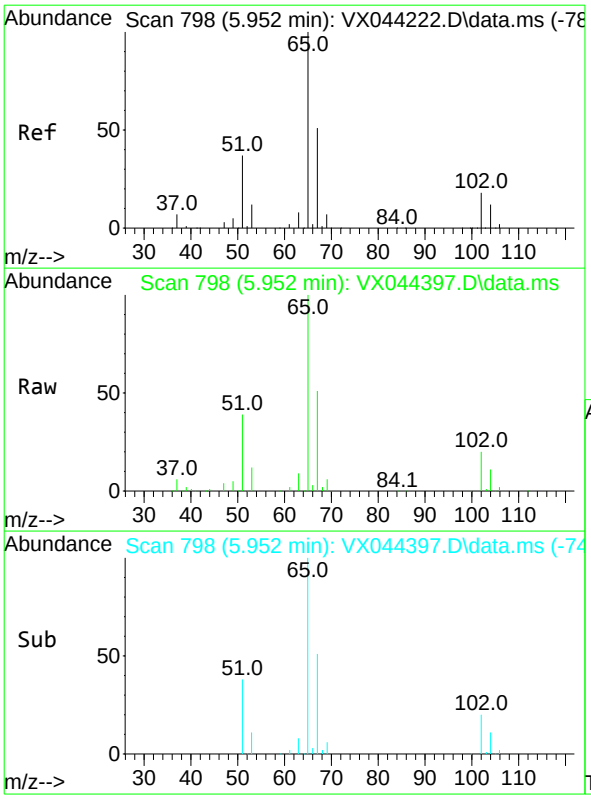


#32
1,1,1-Trichloroethane
Concen: 51.614 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 97 Resp: 152533

Ion	Ratio	Lower	Upper
97	100		
99	63.2	50.8	76.2
61	43.9	35.2	52.8

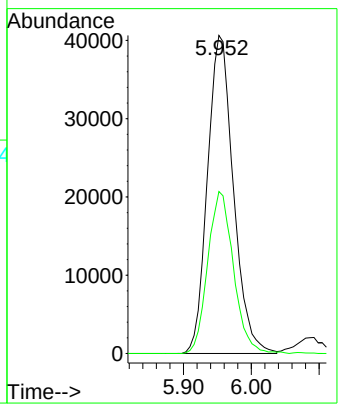




#33
1,2-Dichloroethane-d4
Concen: 45.507 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 65 Resp: 107888

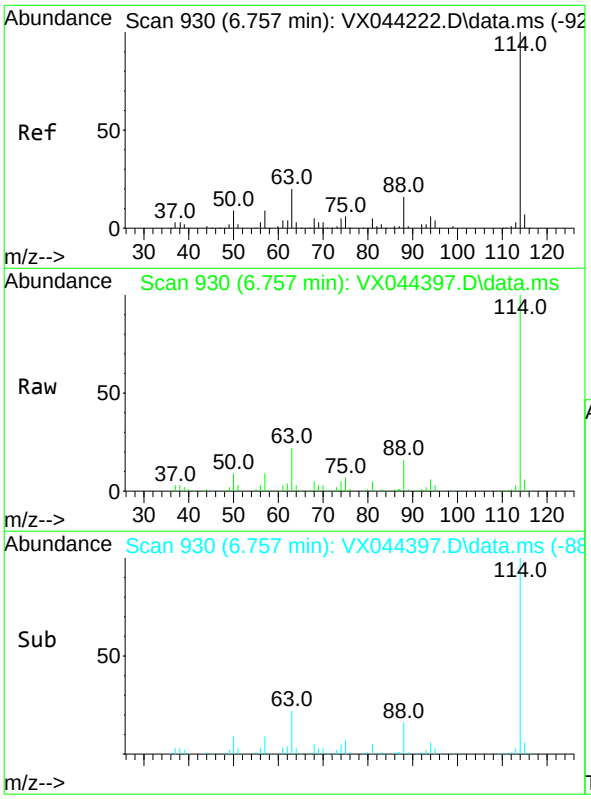
Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

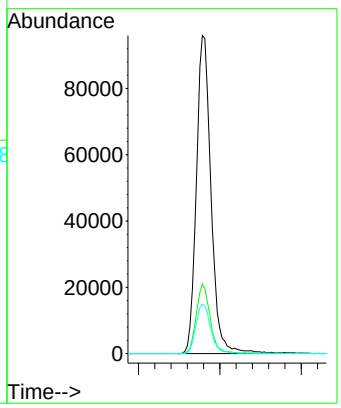
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

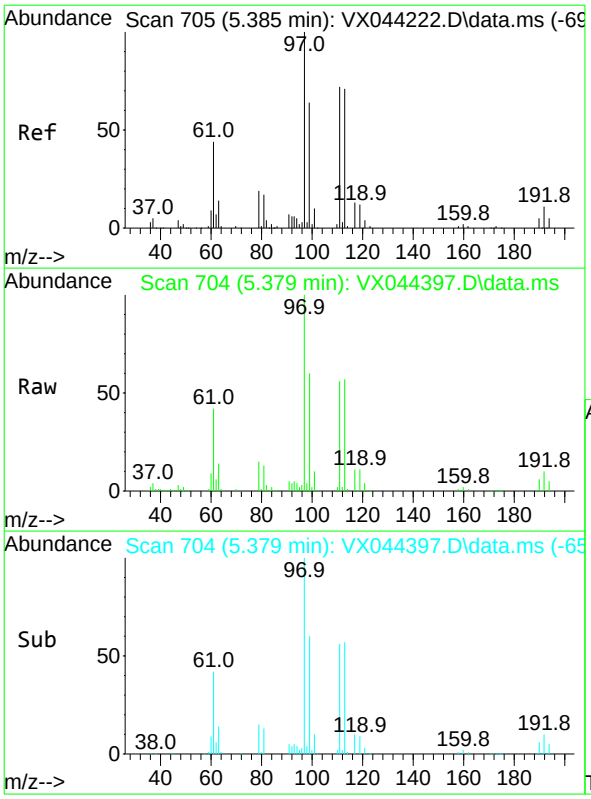


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:114 Resp: 239936

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	40.6
88	15.6	0.0	31.8

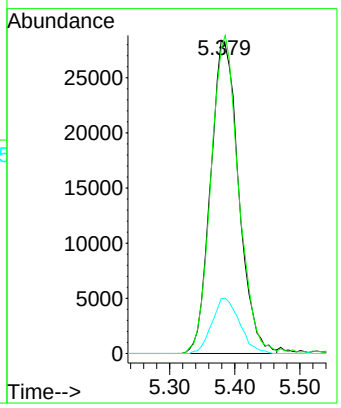




#35
Dibromofluoromethane
Concen: 51.157 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:113 Resp: 85012

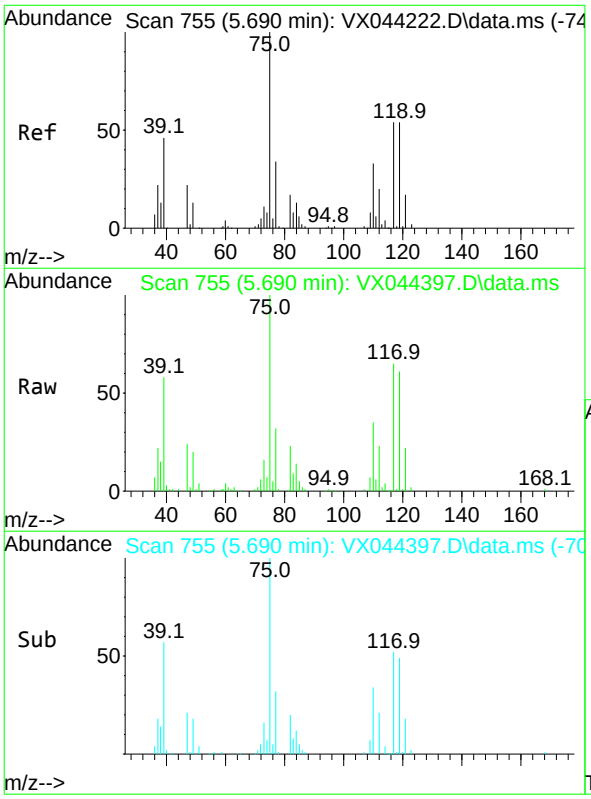
Ion	Ratio	Lower	Upper
113	100		
111	100.2	80.4	120.6
192	17.4	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

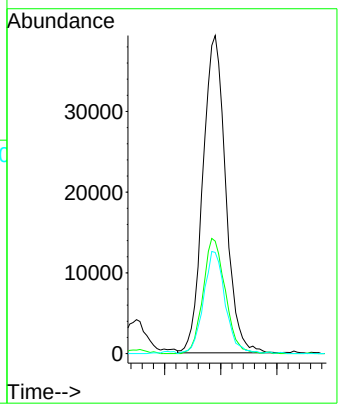
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

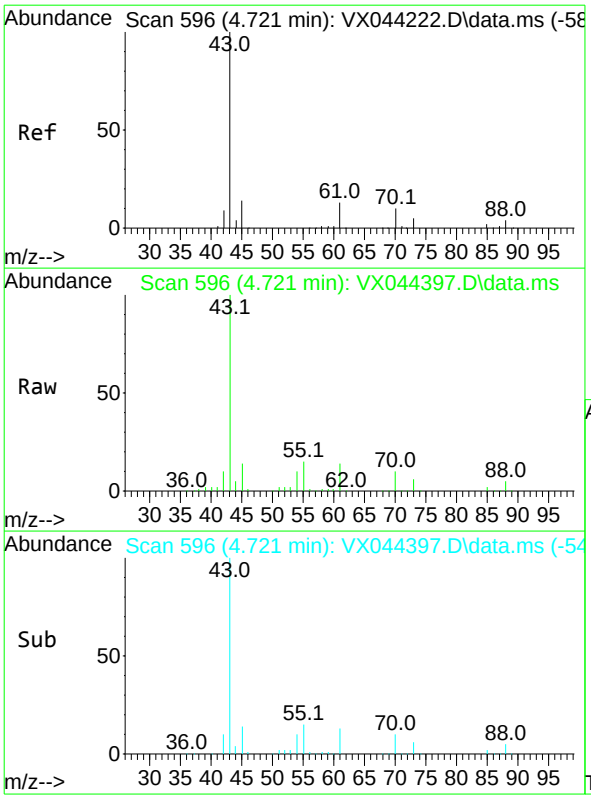


#36
1,1-Dichloropropene
Concen: 51.438 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 75 Resp: 110493

Ion	Ratio	Lower	Upper
75	100		
110	35.4	17.3	51.7
77	30.8	25.4	38.0





#37
Ethyl Acetate
Concen: 51.297 ug/l
RT: 4.721 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

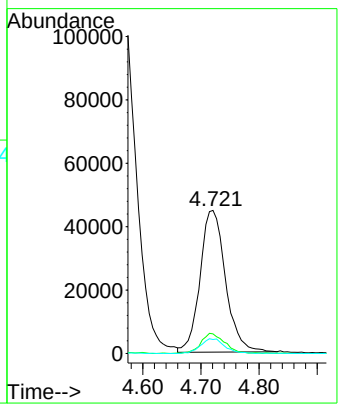
Tgt Ion: 43 Resp: 136208

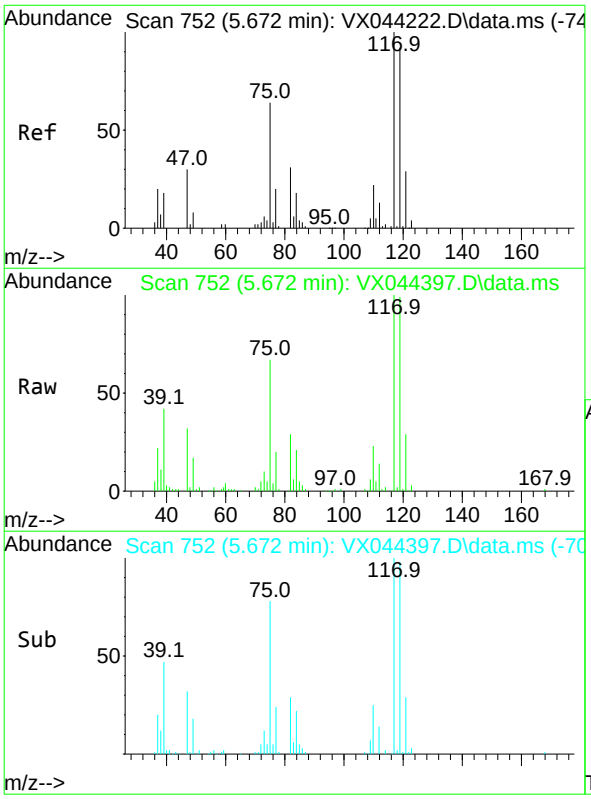
Ion	Ratio	Lower	Upper
43	100		
61	13.2	9.8	14.8
70	9.8	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

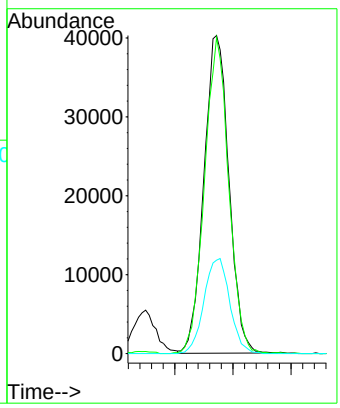


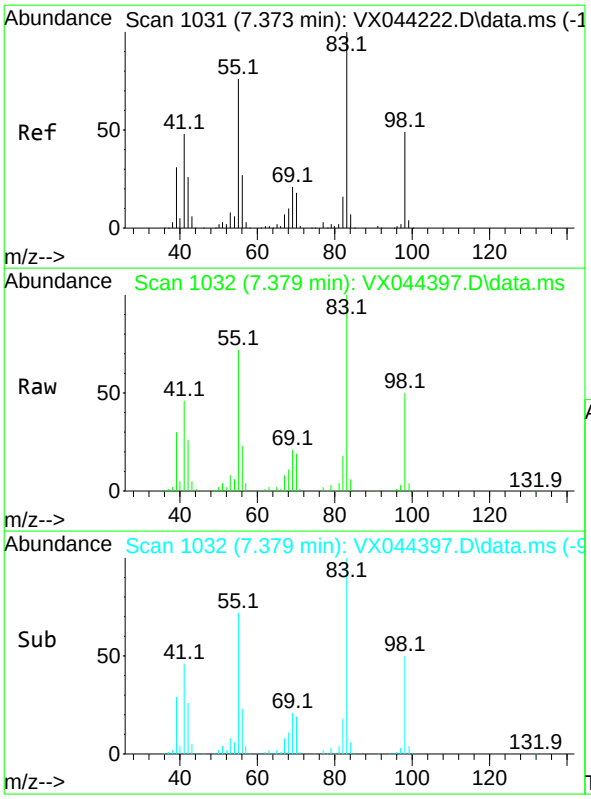


#38
Carbon Tetrachloride
Concen: 52.064 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:117 Resp: 120403

Ion	Ratio	Lower	Upper
117	100		
119	99.3	74.2	111.4
121	29.4	23.0	34.6

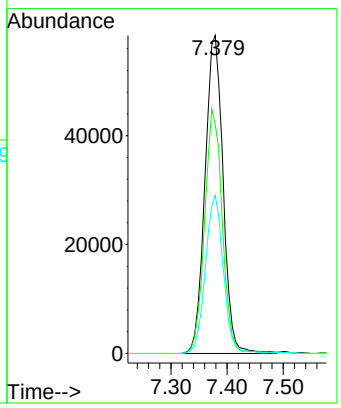




#39
Methylcyclohexane
Concen: 50.884 ug/l
RT: 7.379 min Scan# 10
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 83 Resp: 130669

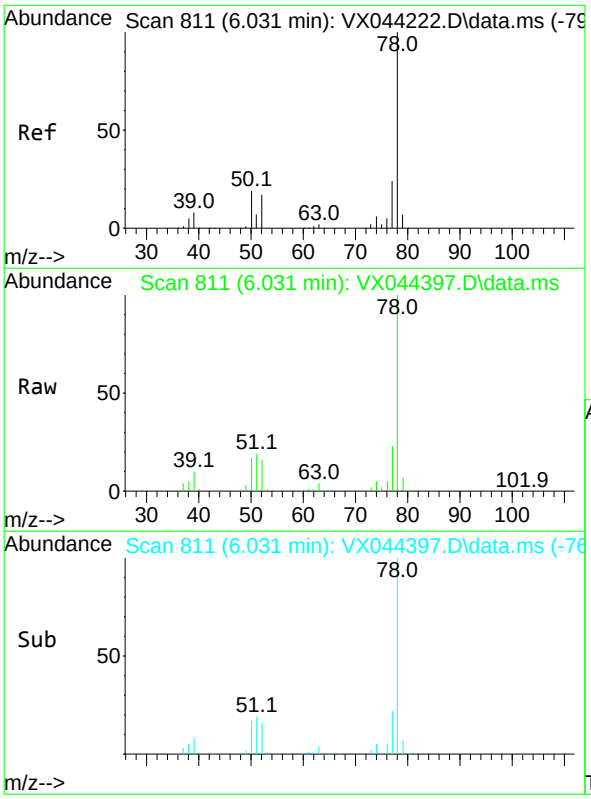
Ion	Ratio	Lower	Upper
83	100		
55	72.1	60.7	91.1
98	49.8	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

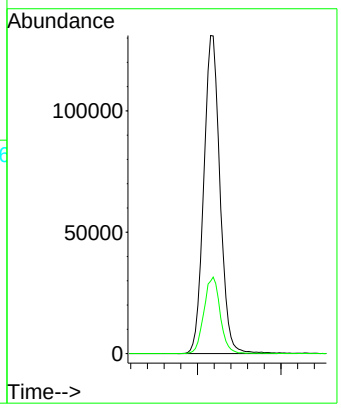
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

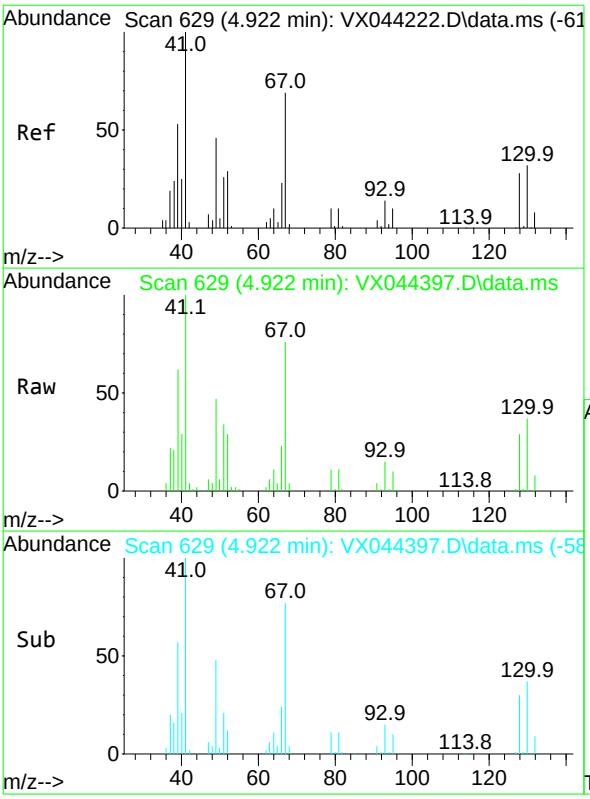


#40
Benzene
Concen: 54.246 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 78 Resp: 353789

Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.3	28.9





#41
Methacrylonitrile
Concen: 52.726 ug/l
RT: 4.922 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

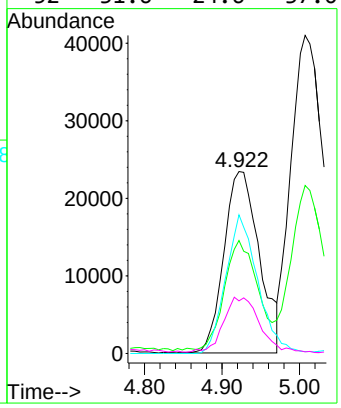
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

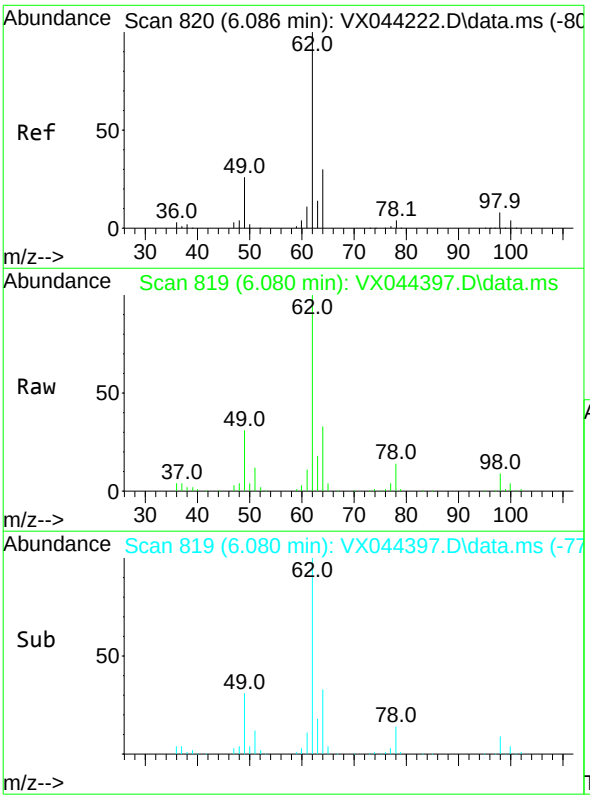
Tgt Ion: 41 Resp: 74342

Ion	Ratio	Lower	Upper
41	100		
39	57.4	44.2	66.4
67	69.0	57.2	85.8
52	31.6	24.6	37.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

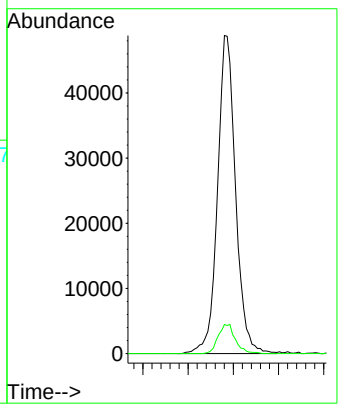


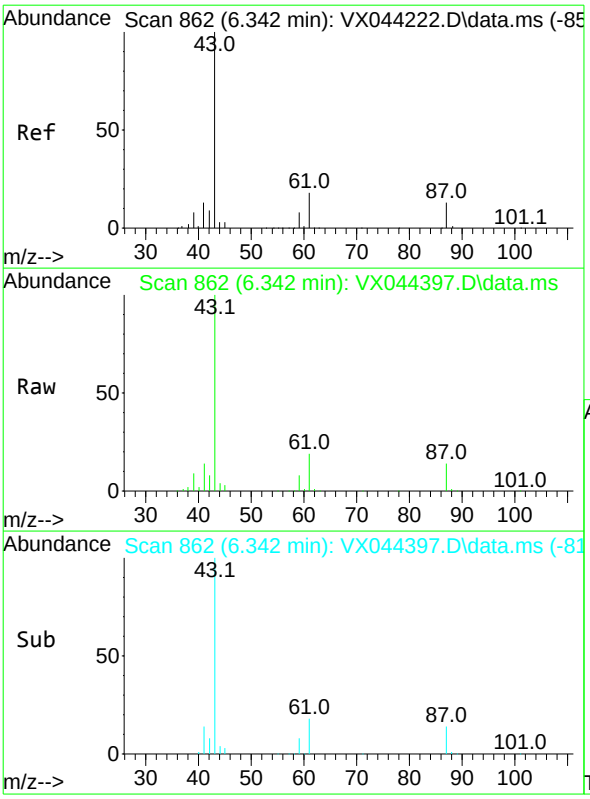


#42
1,2-Dichloroethane
Concen: 50.400 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 62 Resp: 135405

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	15.8

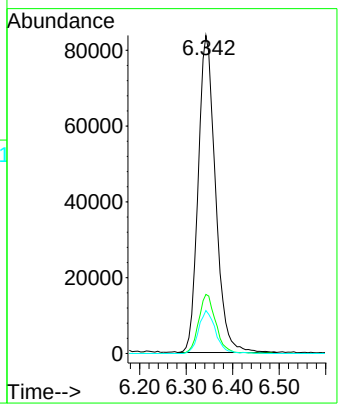




#43
Isopropyl Acetate
Concen: 51.907 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 43 Resp: 215421

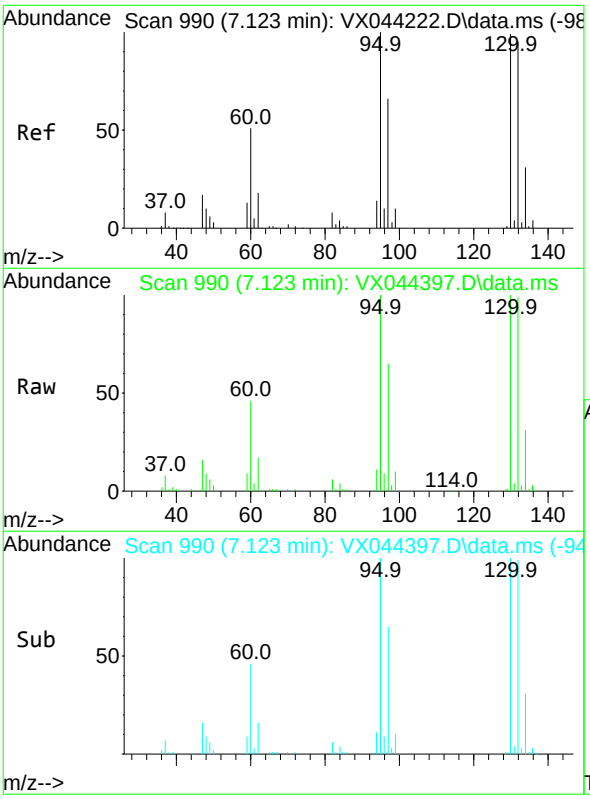
Ion	Ratio	Lower	Upper
43	100		
61	18.6	14.2	21.2
87	13.2	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

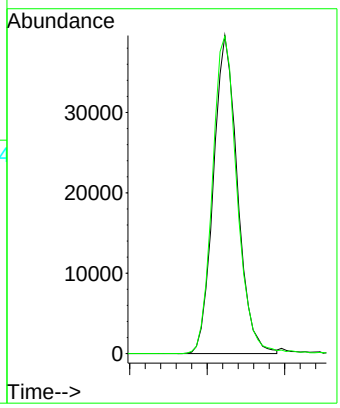
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

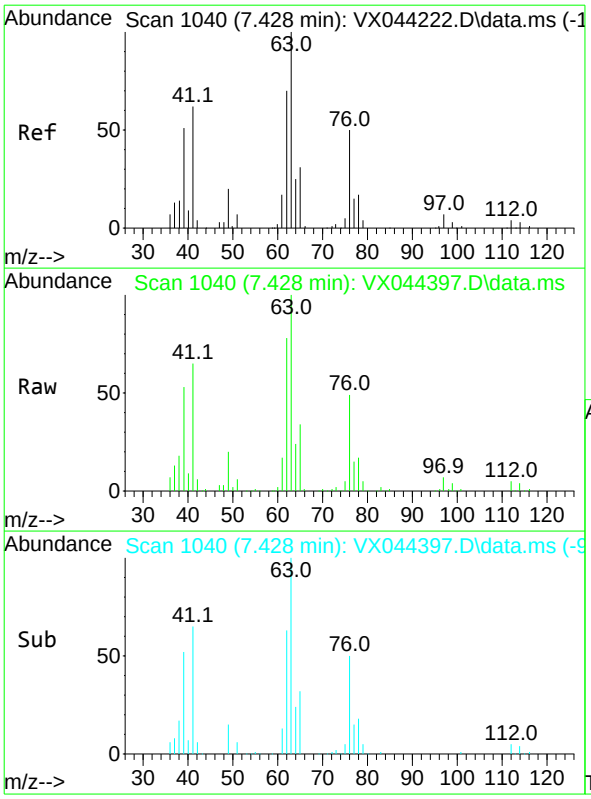


#44
Trichloroethene
Concen: 52.403 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:130 Resp: 85228

Ion	Ratio	Lower	Upper
130	100		
95	99.8	0.0	201.4





#45
1,2-Dichloropropane
Concen: 52.551 ug/l
RT: 7.428 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

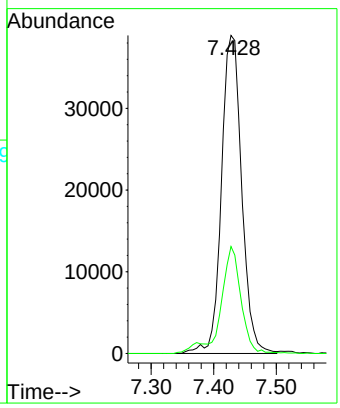
Tgt Ion: 63 Resp: 87563

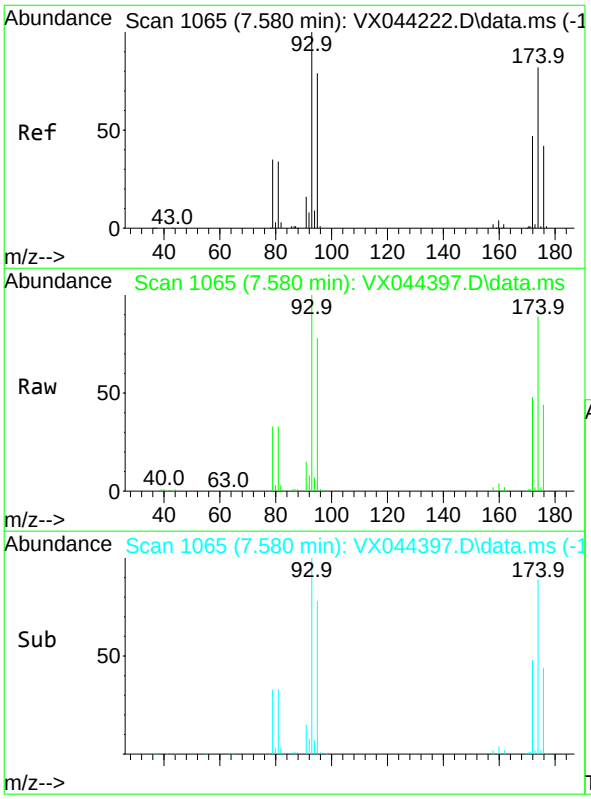
Ion	Ratio	Lower	Upper
63	100		
65	33.3	24.6	37.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

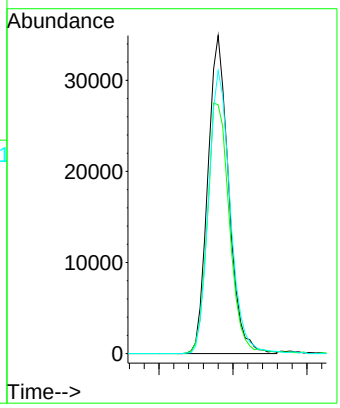


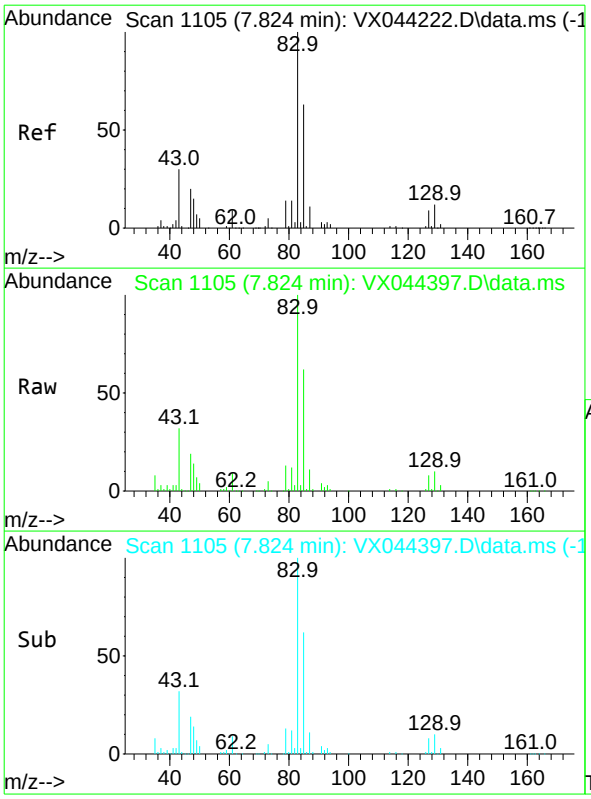


#46
Dibromomethane
Concen: 52.923 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 93 Resp: 68412

Ion	Ratio	Lower	Upper
93	100		
95	83.6	65.4	98.2
174	92.0	67.9	101.9





#47
Bromodichloromethane
Concen: 55.381 ug/l
RT: 7.824 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

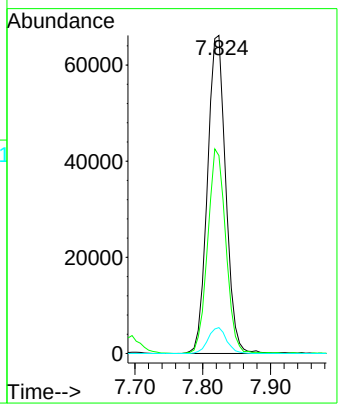
Tgt Ion: 83 Resp: 123638

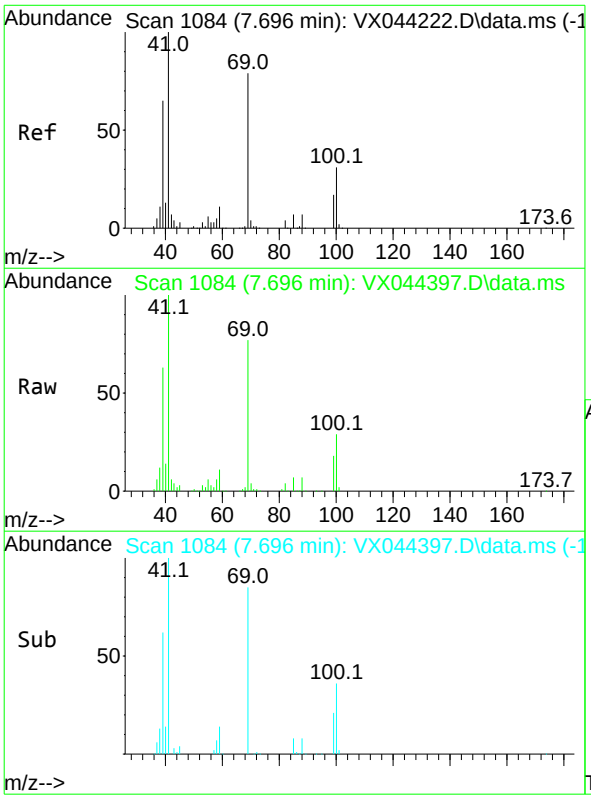
Ion	Ratio	Lower	Upper
83	100		
85	62.2	50.6	75.8
127	8.1	7.3	10.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

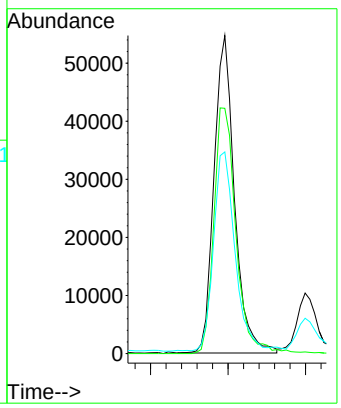


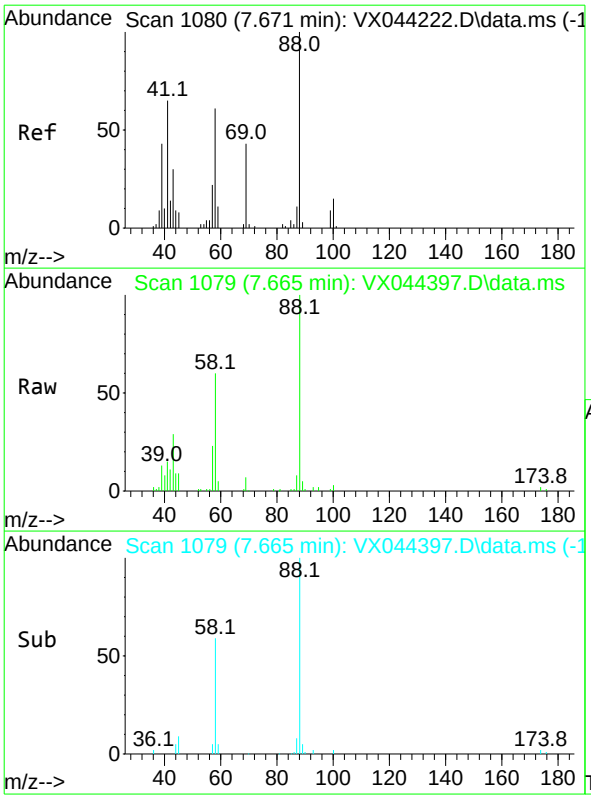


#48
Methyl methacrylate
Concen: 49.782 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 41 Resp: 100291

Ion	Ratio	Lower	Upper
41	100		
69	83.8	62.4	93.6
39	65.6	53.3	79.9





#49
1,4-Dioxane
Concen: 762.005 ug/l
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

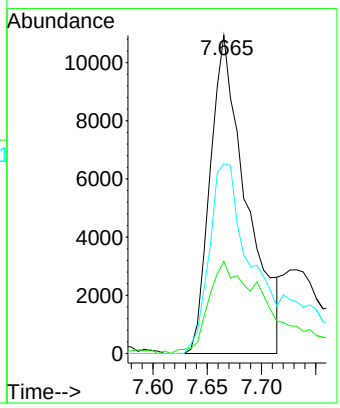
Tgt Ion: 88 Resp: 25452

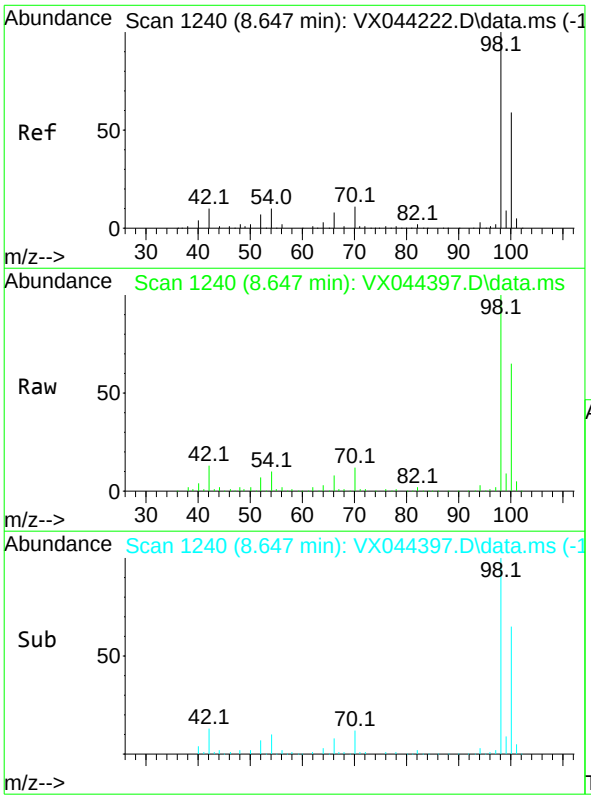
Ion	Ratio	Lower	Upper
88	100		
43	47.8	27.1	40.7#
58	67.0	41.0	61.4#

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

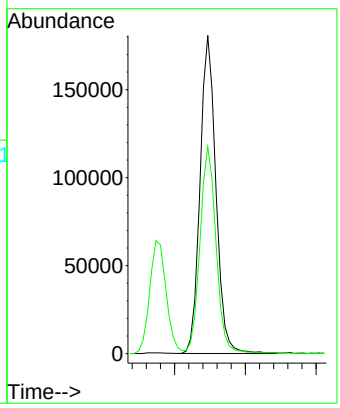


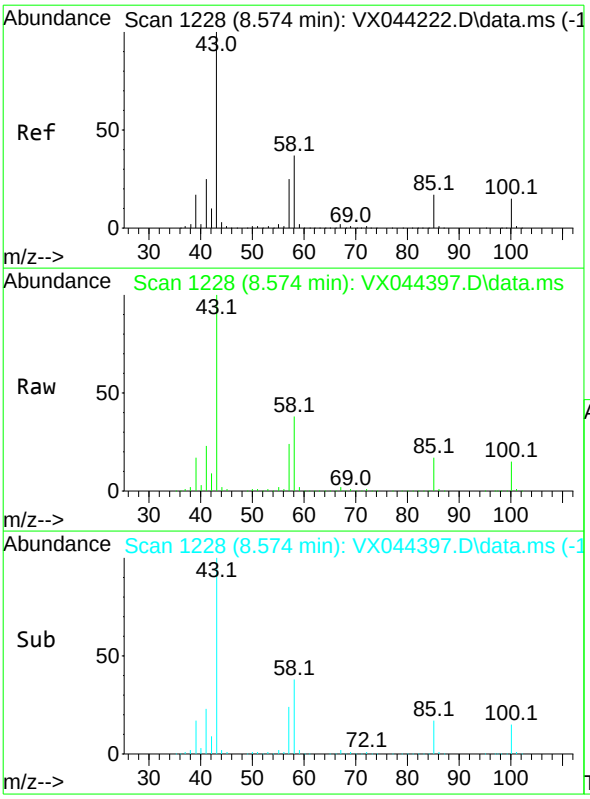


#50
Toluene-d8
Concen: 50.233 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 98 Resp: 281622

Ion	Ratio	Lower	Upper
98	100		
100	66.1	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 255.786 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

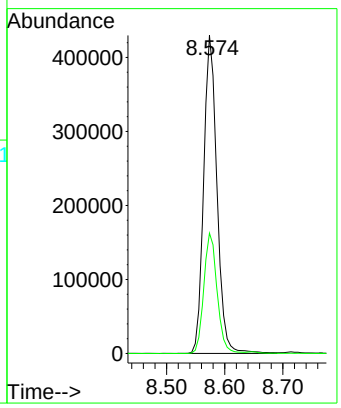
Tgt Ion: 43 Resp: 682557

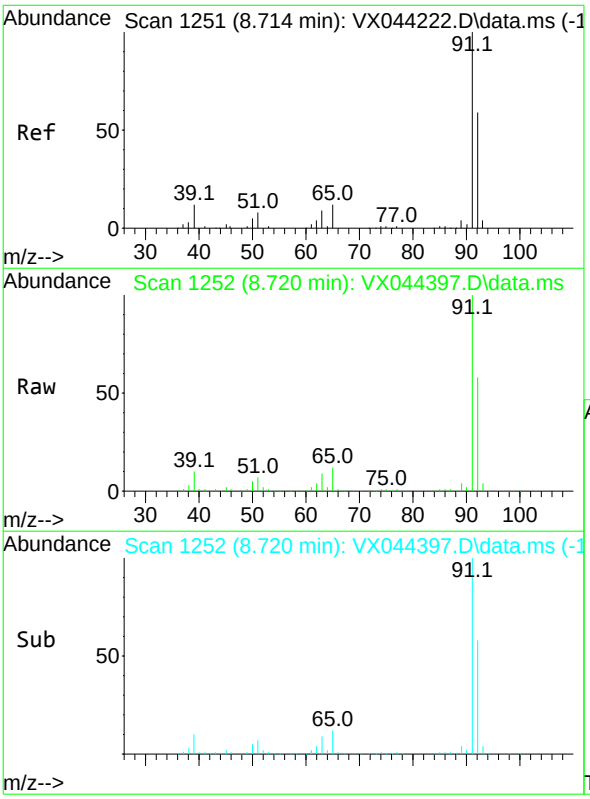
Ion	Ratio	Lower	Upper
43	100		
58	37.9	29.4	44.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

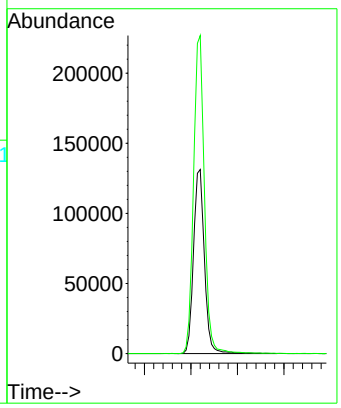


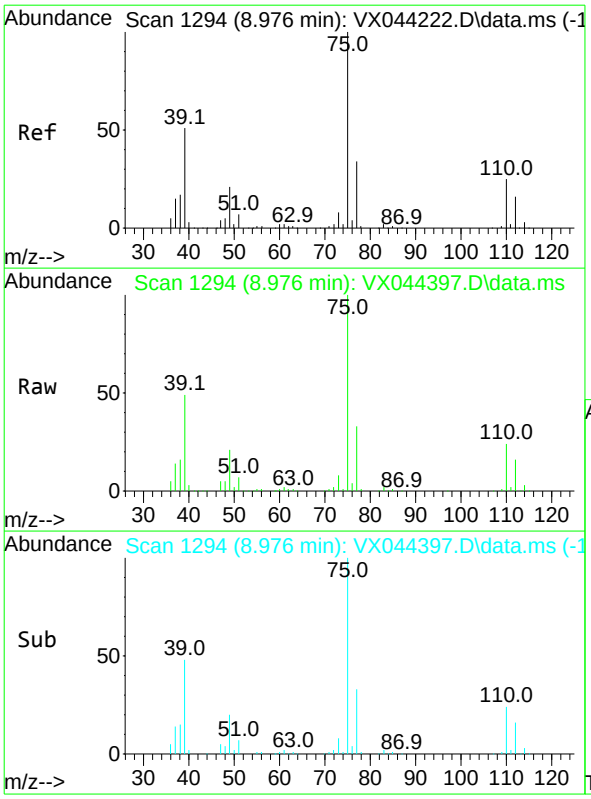


#52
Toluene
Concen: 52.287 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 92 Resp: 214145

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.0	205.6

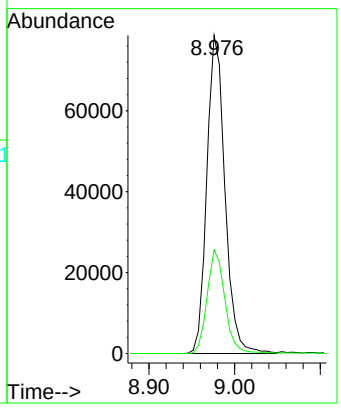




#53
t-1,3-Dichloropropene
Concen: 48.259 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 75 Resp: 115357

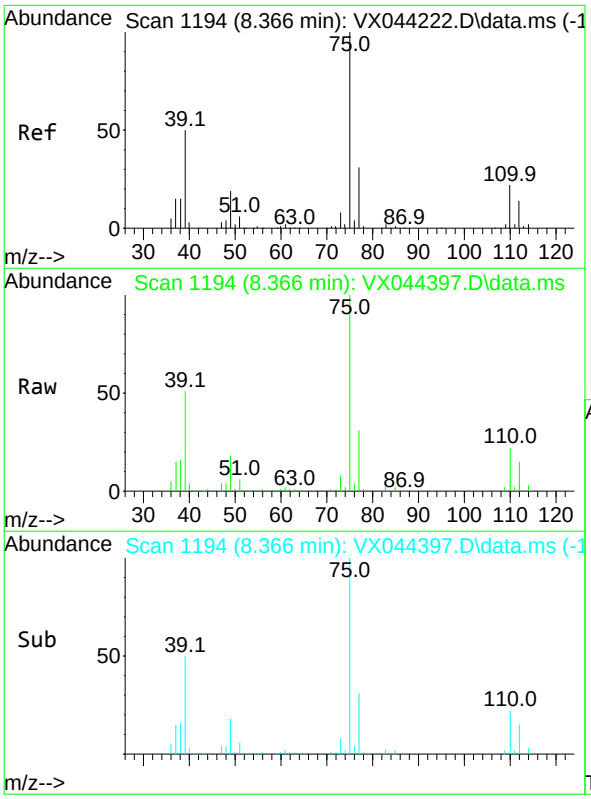
Ion	Ratio	Lower	Upper
75	100		
77	32.6	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

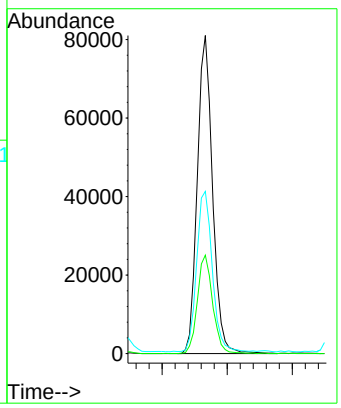
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

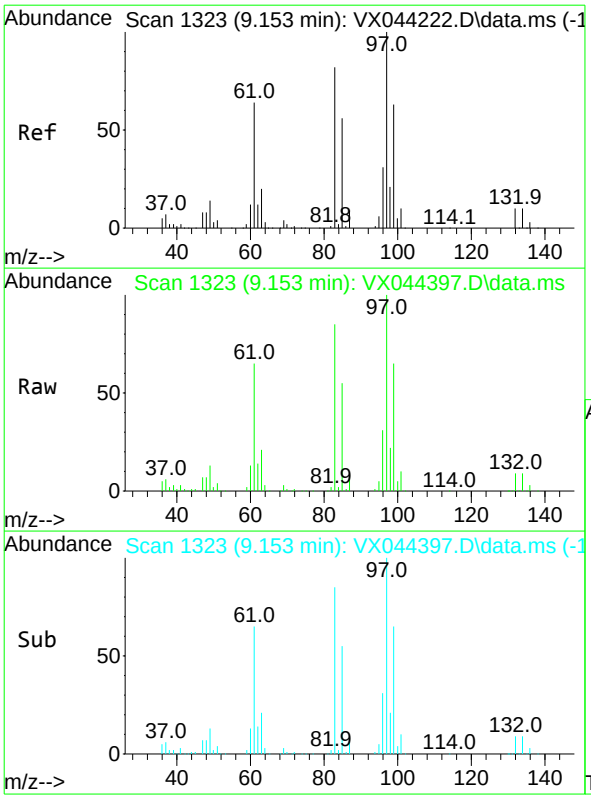


#54
cis-1,3-Dichloropropene
Concen: 54.285 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 75 Resp: 131957

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.7	37.1
39	50.5	40.3	60.5





#55
1,1,2-Trichloroethane
Concen: 53.669 ug/l
RT: 9.153 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

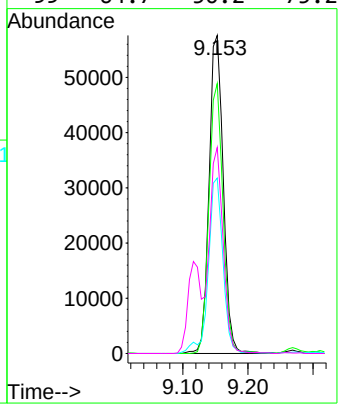
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

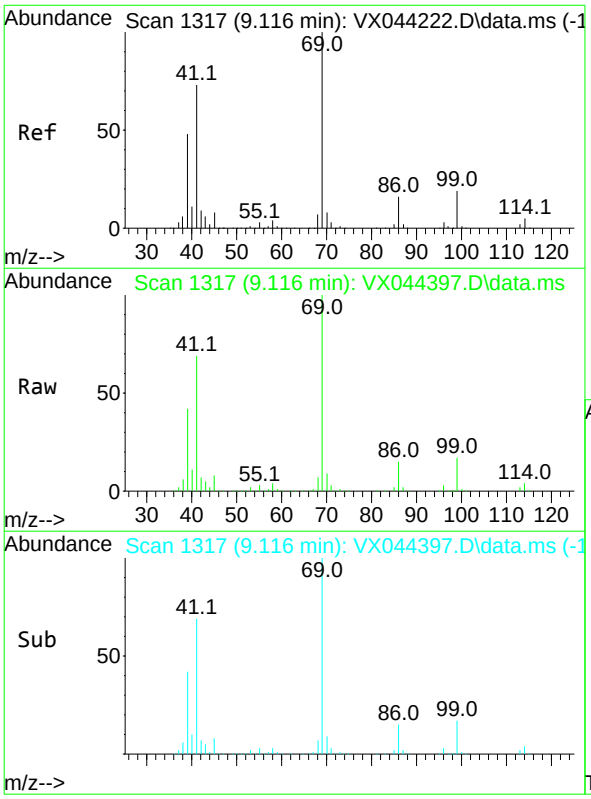
Tgt Ion: 97 Resp: 87322

Ion	Ratio	Lower	Upper
97	100		
83	84.8	65.3	97.9
85	55.2	44.6	67.0
99	64.7	50.2	75.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

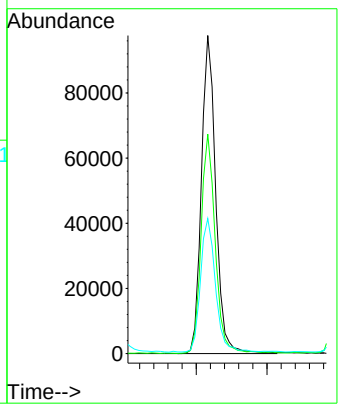


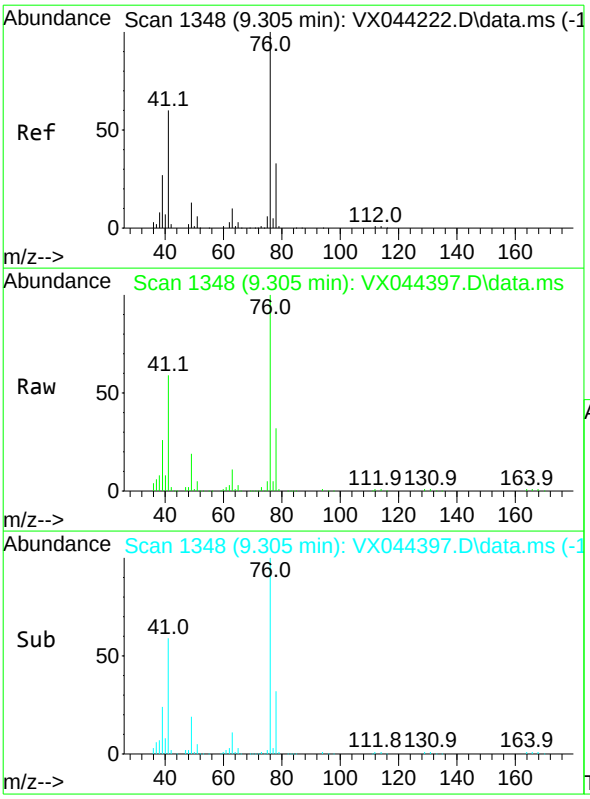


#56
Ethyl methacrylate
Concen: 53.333 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 69 Resp: 136992

Ion	Ratio	Lower	Upper
69	100		
41	68.5	56.6	85.0
39	43.6	37.4	56.0

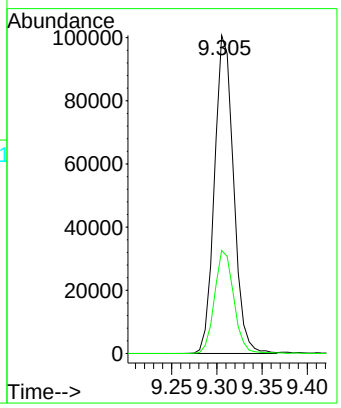




#57
1,3-Dichloropropane
Concen: 52.251 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 76 Resp: 147976

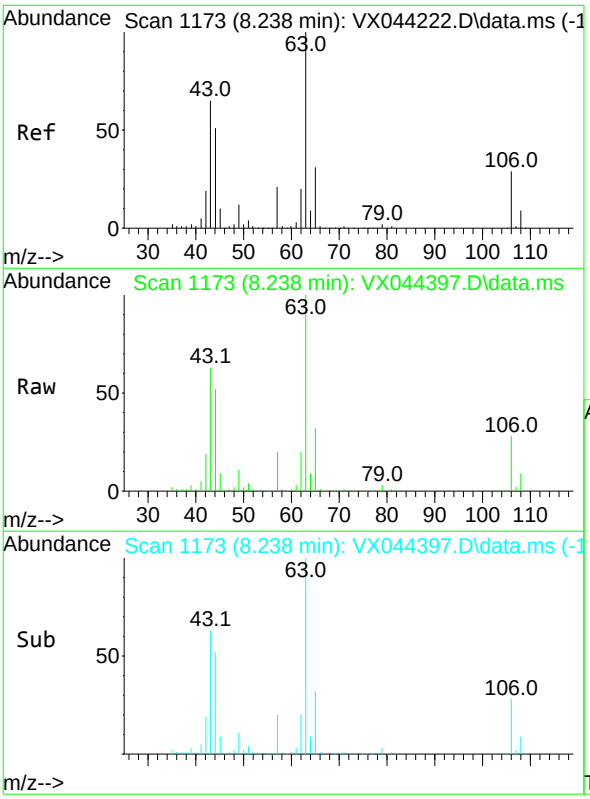
Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

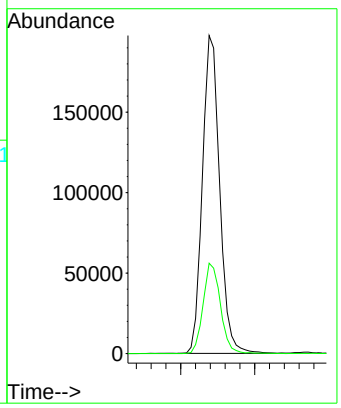
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

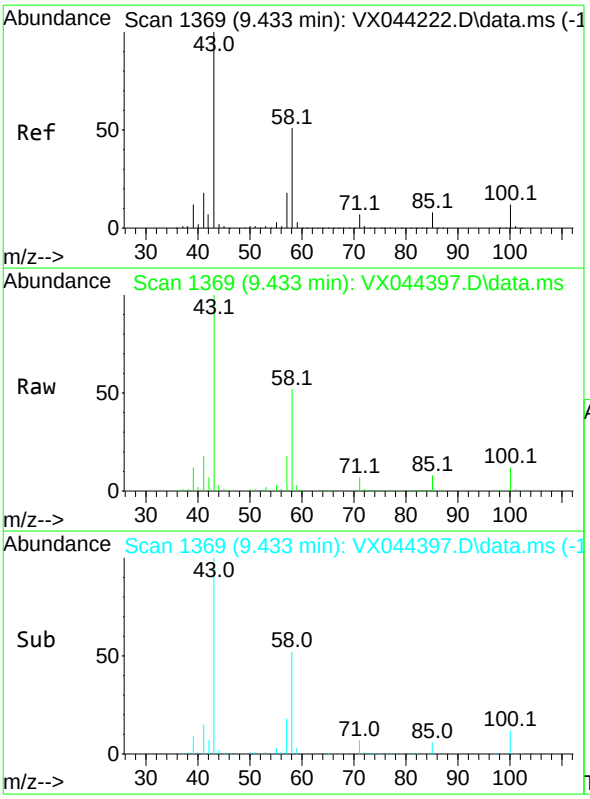


#58
2-Chloroethyl Vinyl ether
Concen: 246.430 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 63 Resp: 319257

Ion	Ratio	Lower	Upper
63	100		
106	28.7	22.8	34.2





#59
2-Hexanone
Concen: 258.095 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

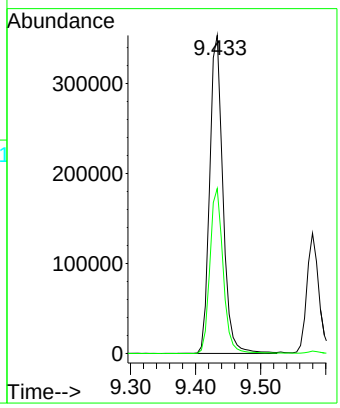
Tgt Ion: 43 Resp: 498511

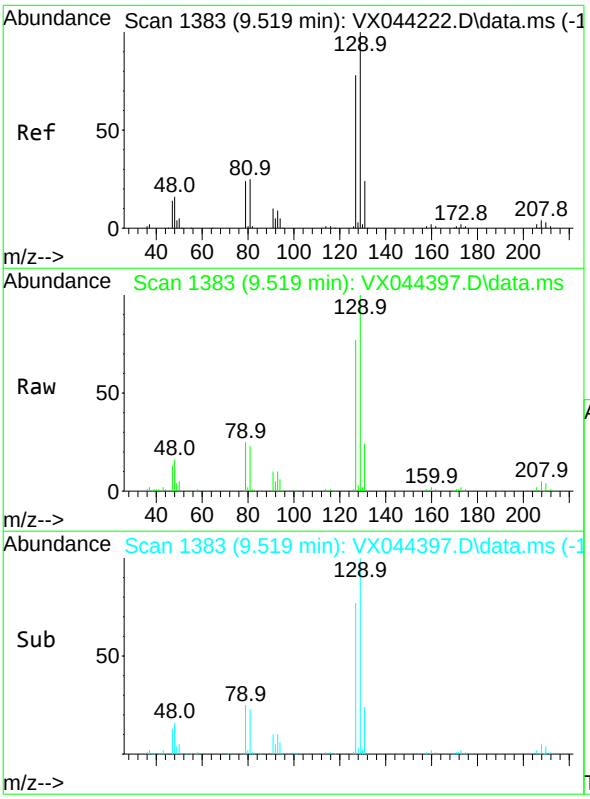
Ion	Ratio	Lower	Upper
43	100		
58	52.1	25.7	77.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

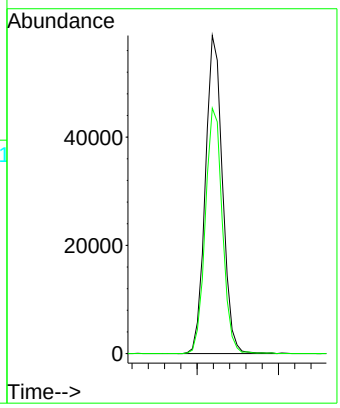


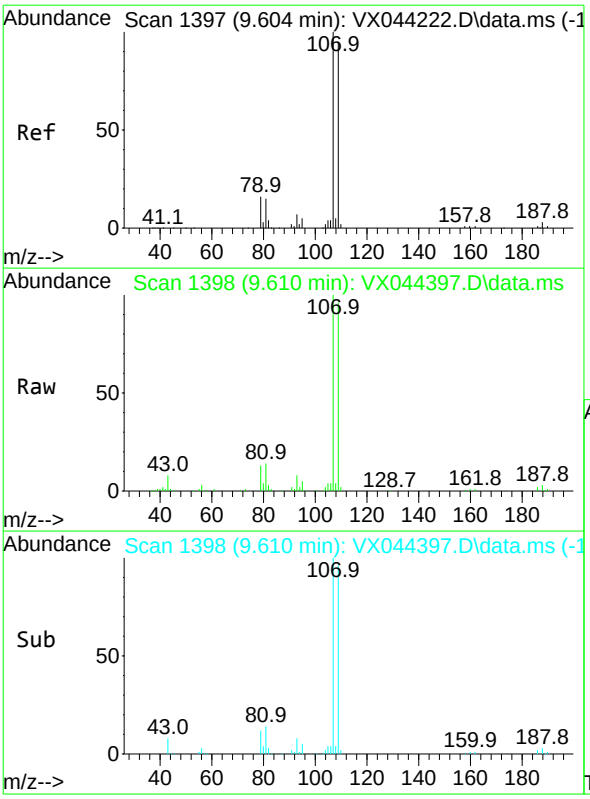


#60
Dibromochloromethane
Concen: 49.779 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:129 Resp: 85744

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.5	115.3

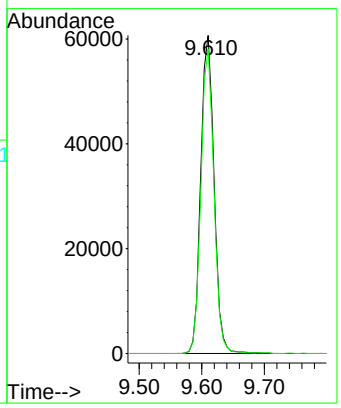




#61
1,2-Dibromoethane
Concen: 54.158 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:107 Resp: 89694

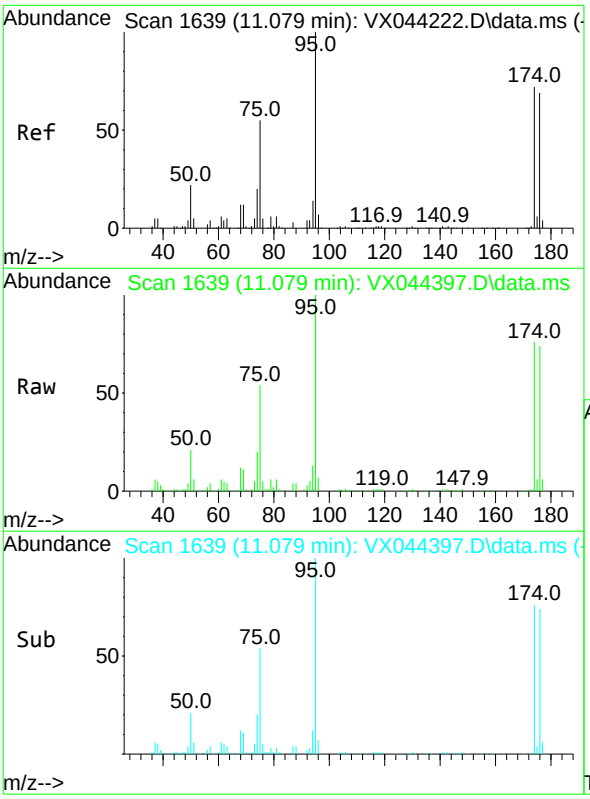
Ion	Ratio	Lower	Upper
107	100		
109	93.7	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

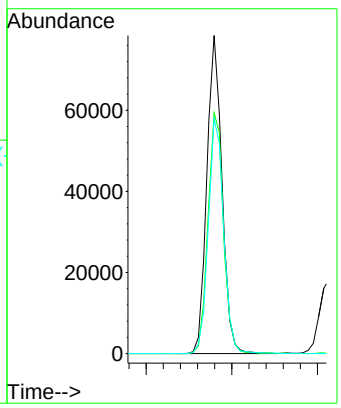
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

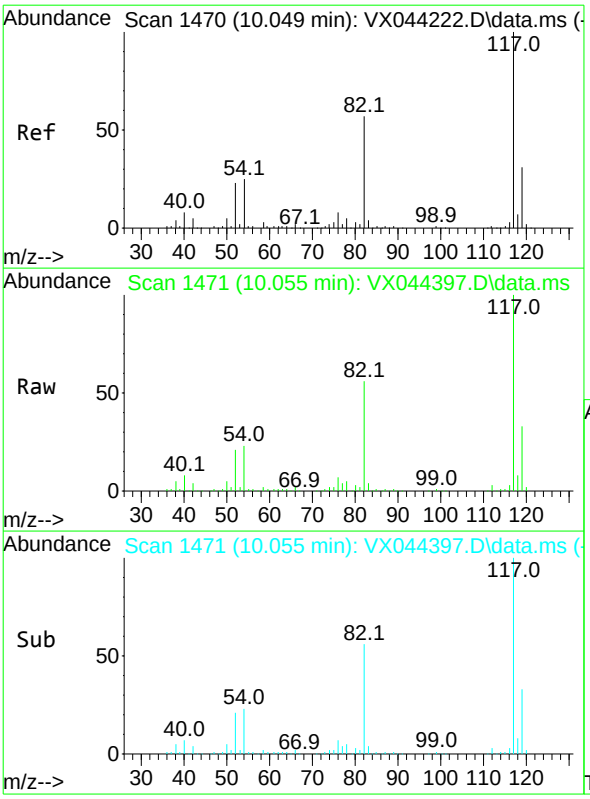


#62
4-Bromofluorobenzene
Concen: 49.060 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 95 Resp: 96109

Ion	Ratio	Lower	Upper
95	100		
174	77.3	0.0	145.8
176	74.8	0.0	137.8

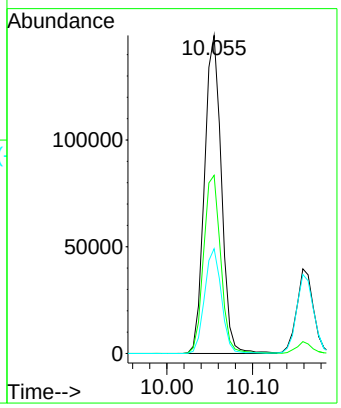




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:117 Resp: 204282

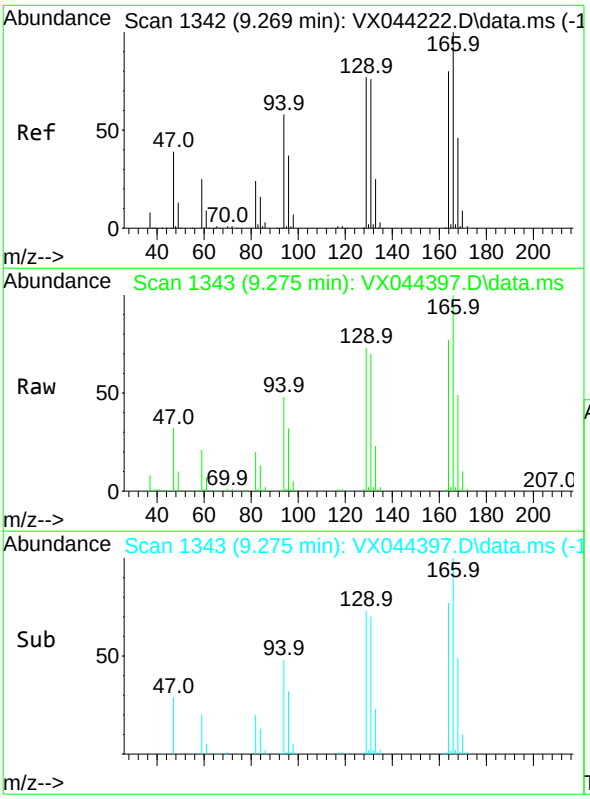
Ion	Ratio	Lower	Upper
117	100		
82	56.0	45.8	68.8
119	33.0	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

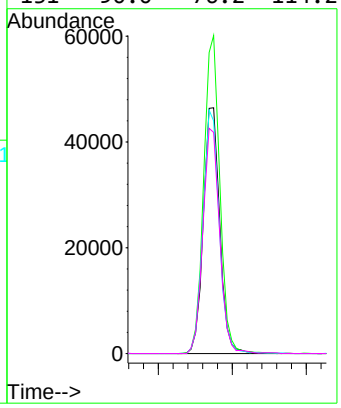
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

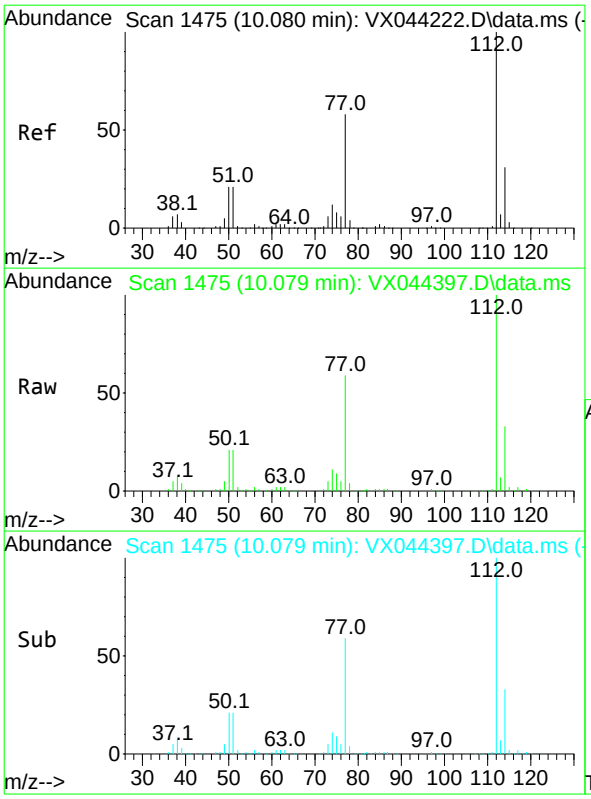


#64
Tetrachloroethene
Concen: 52.769 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:164 Resp: 71547

Ion	Ratio	Lower	Upper
164	100		
166	129.4	100.4	150.6
129	94.6	77.2	115.8
131	90.0	76.2	114.2





#65
Chlorobenzene
Concen: 52.745 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

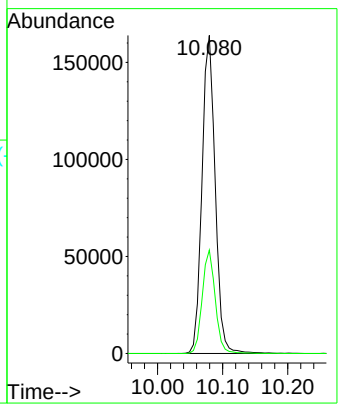
Tgt Ion:112 Resp: 230882

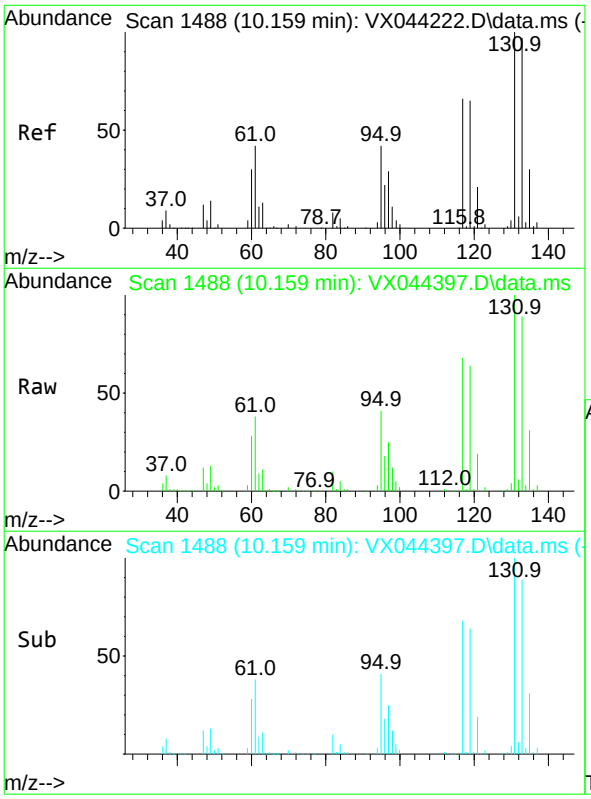
Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.0	37.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

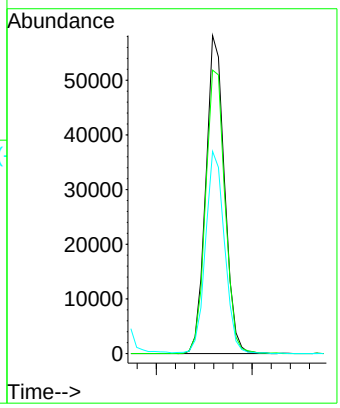


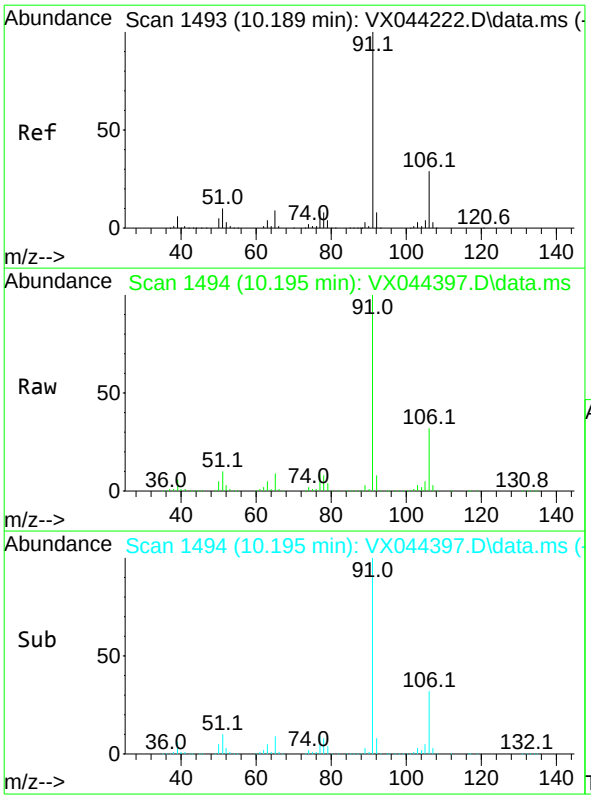


#66
1,1,1,2-Tetrachloroethane
Concen: 56.175 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:131 Resp: 79028

Ion	Ratio	Lower	Upper
131	100		
133	92.5	47.3	141.8
119	64.8	31.6	95.0





#67
Ethyl Benzene
Concen: 52.690 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

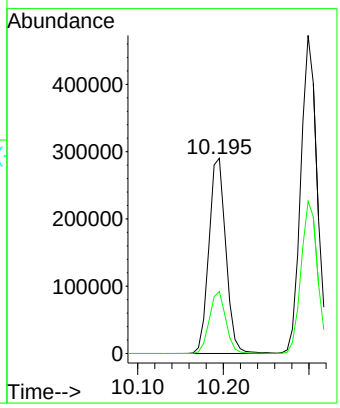
Tgt Ion: 91 Resp: 398506

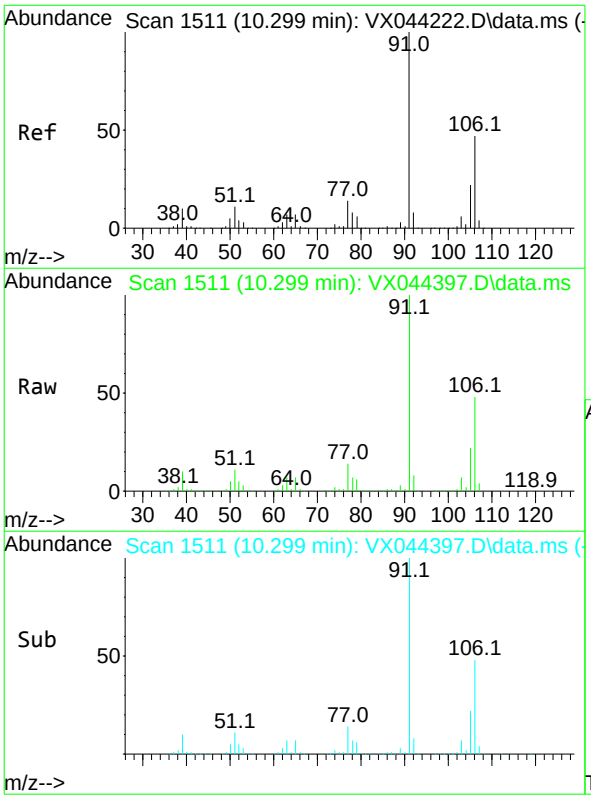
Ion	Ratio	Lower	Upper
91	100		
106	31.8	23.5	35.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

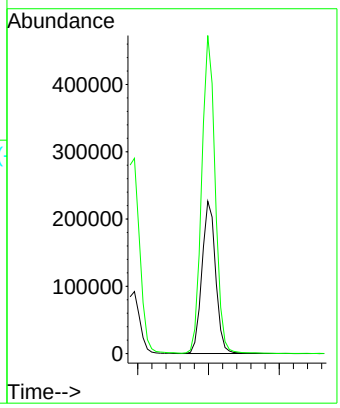


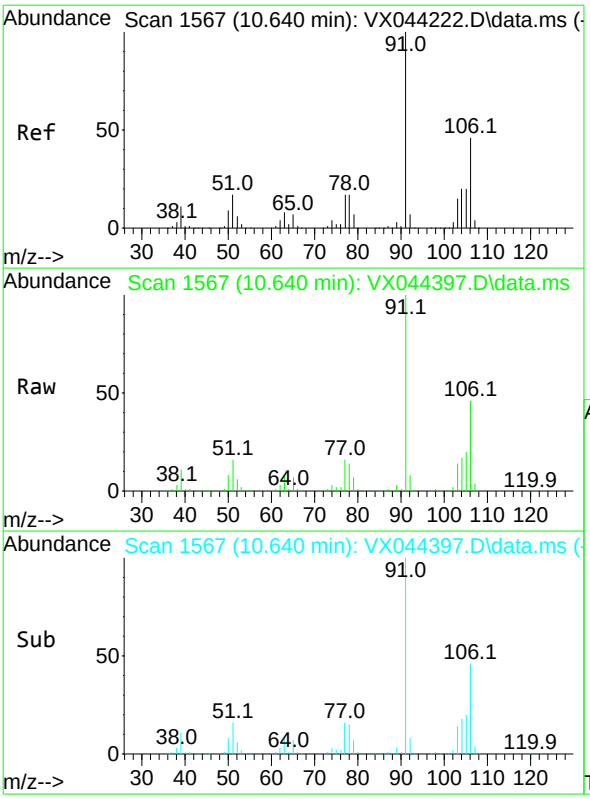


#68
m/p-Xylenes
Concen: 109.271 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:106 Resp: 303258

Ion	Ratio	Lower	Upper
106	100		
91	206.1	170.2	255.2





#69
o-Xylene
Concen: 53.305 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

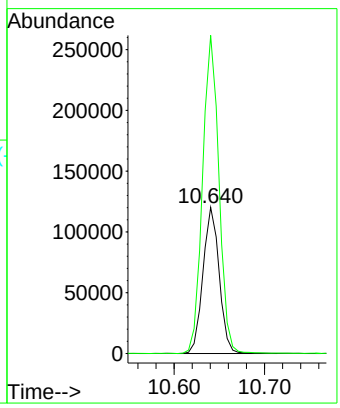
Tgt Ion:106 Resp: 149680

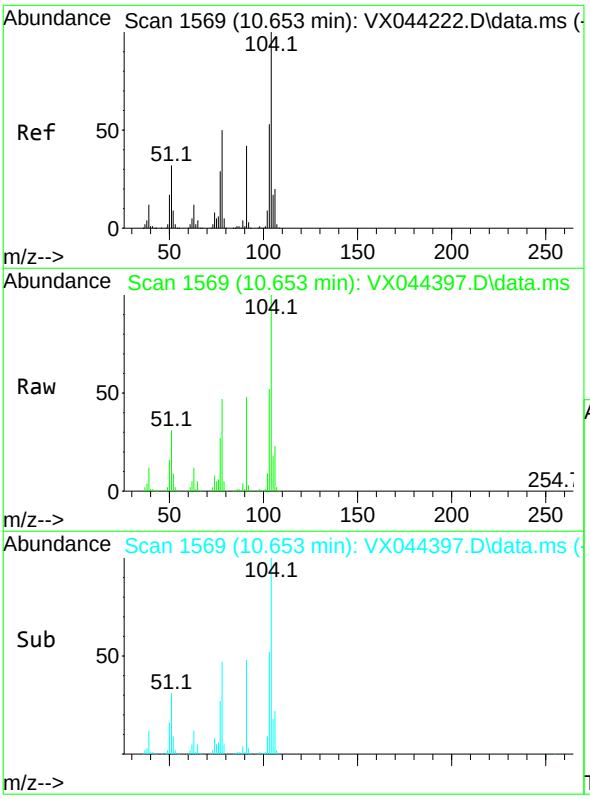
Ion	Ratio	Lower	Upper
106	100		
91	219.8	112.3	337.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

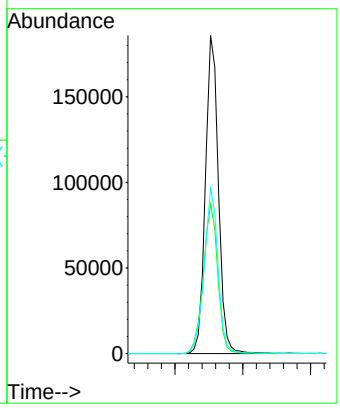


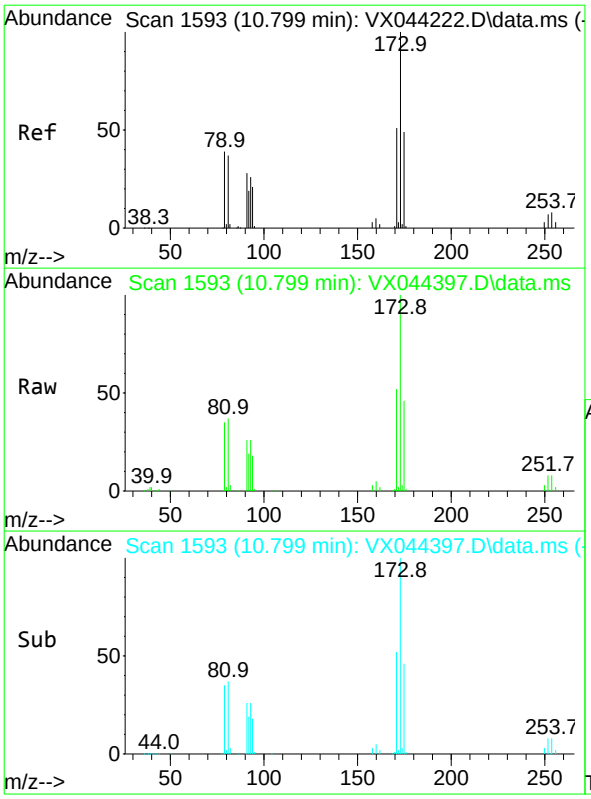


#70
Styrene
Concen: 54.971 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:104 Resp: 247455

Ion	Ratio	Lower	Upper
104	100		
78	52.3	44.6	67.0
103	55.4	45.4	68.0





#71
Bromoform
Concen: 52.002 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

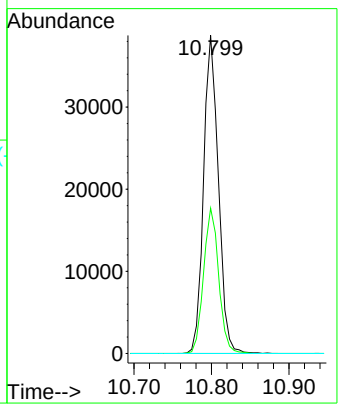
Tgt Ion:173 Resp: 51387

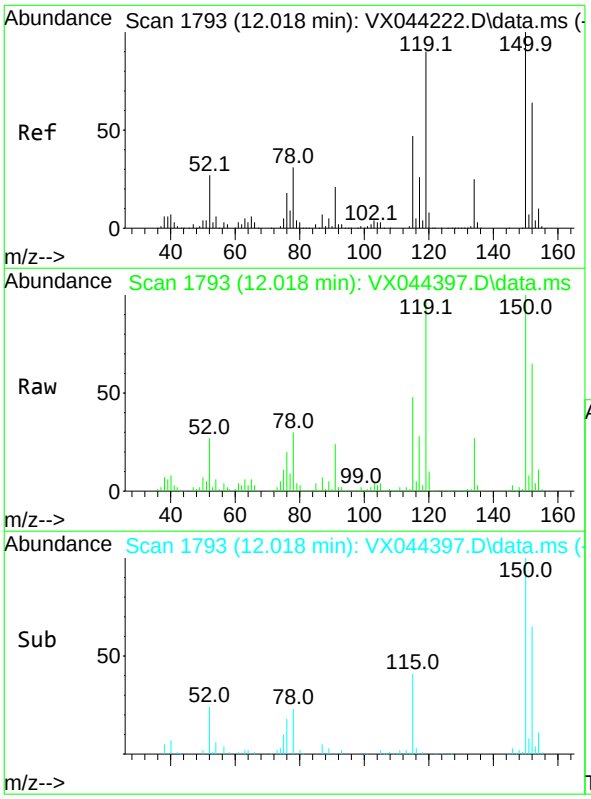
Ion	Ratio	Lower	Upper
173	100		
175	46.8	23.8	71.4
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

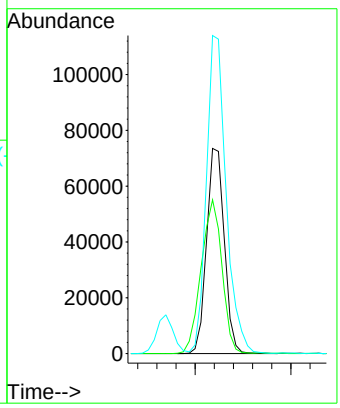


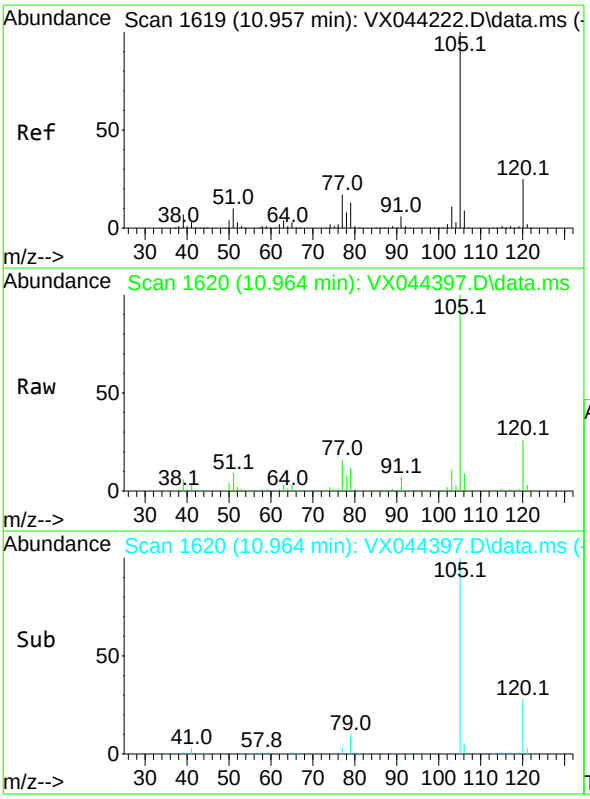


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:152 Resp: 94679

Ion	Ratio	Lower	Upper
152	100		
115	87.8	44.5	133.3
150	171.8	0.0	353.8

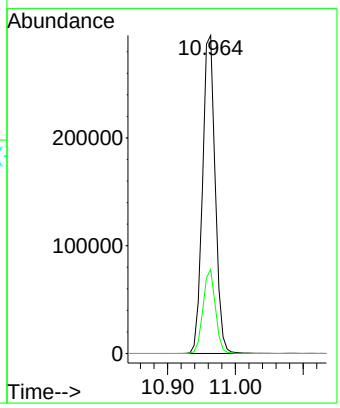




#73
Isopropylbenzene
Concen: 52.735 ug/l
RT: 10.964 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:105 Resp: 382227

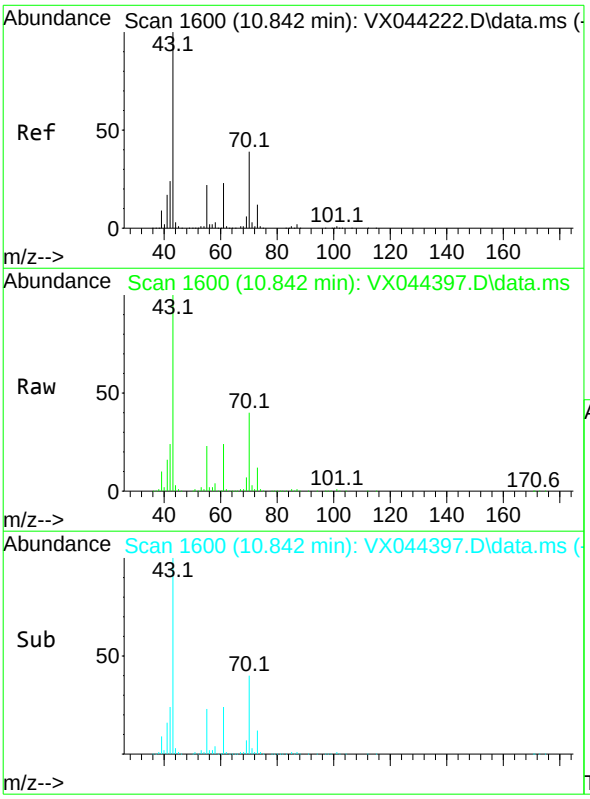
Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

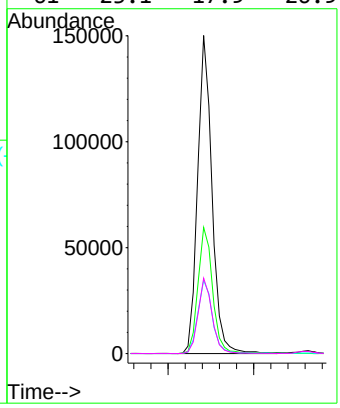
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

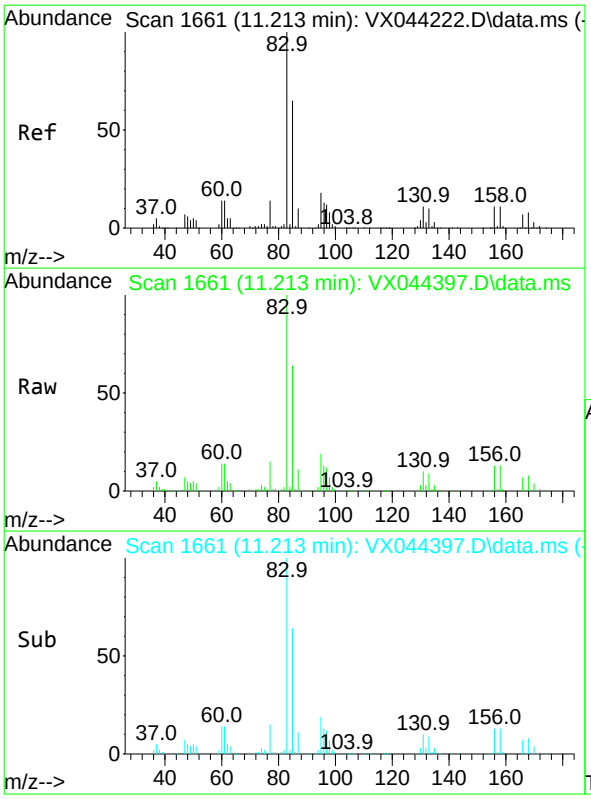


#74
N-amyl acetate
Concen: 52.327 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 43 Resp: 175282

Ion	Ratio	Lower	Upper
43	100		
70	40.7	31.9	47.9
55	23.5	17.9	26.9
61	23.1	17.9	26.9





#75
1,1,2,2-Tetrachloroethane
Concen: 51.441 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

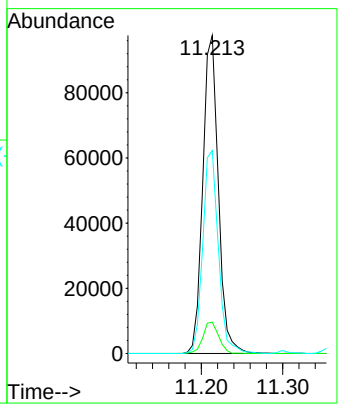
Tgt Ion: 83 Resp: 129501

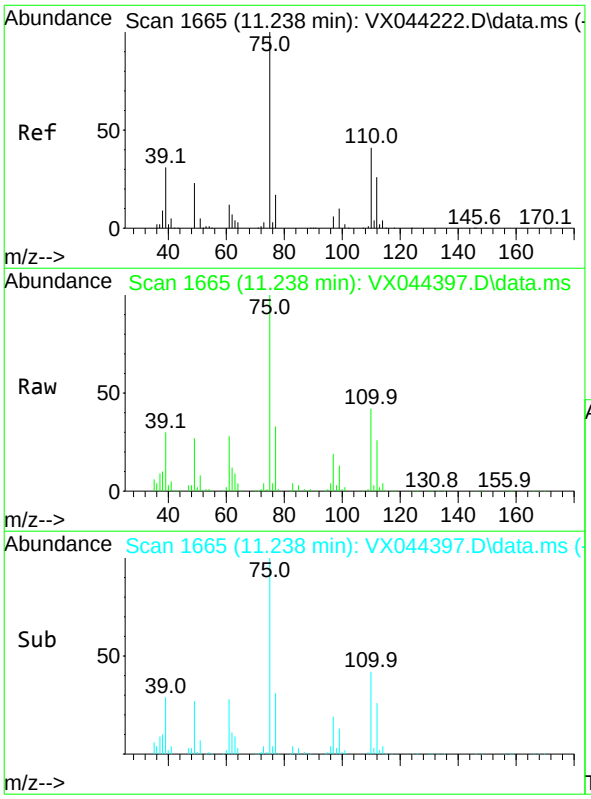
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	64.0	32.5	97.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

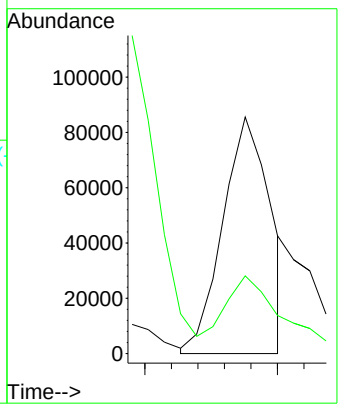


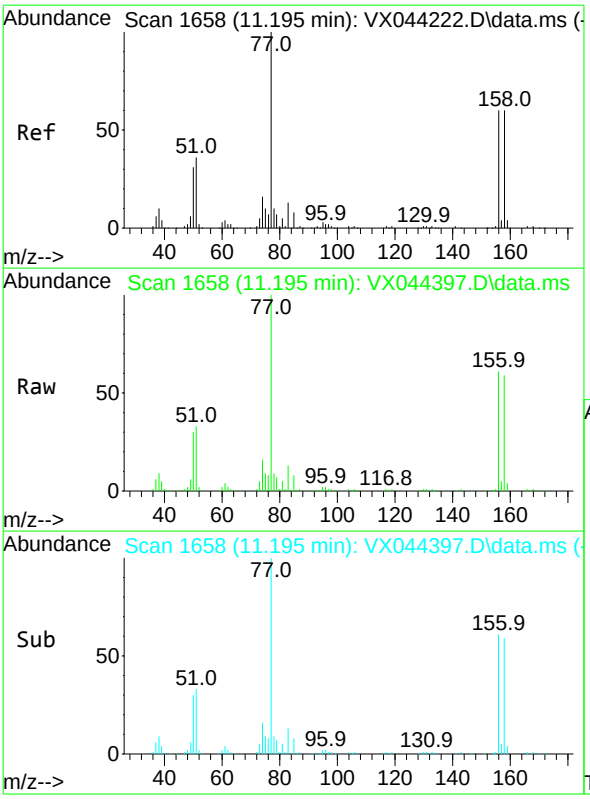


#76
1,2,3-Trichloropropane
Concen: 50.517 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 75 Resp: 106791

Ion	Ratio	Lower	Upper
75	100		
77	41.3	20.9	62.7





#77
Bromobenzene
Concen: 52.151 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

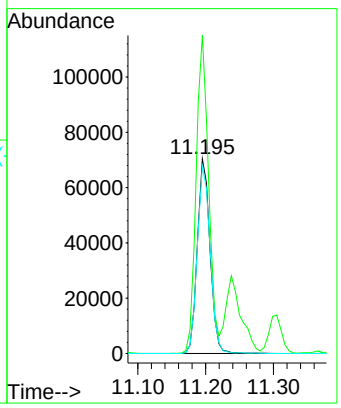
Tgt Ion:156 Resp: 91662

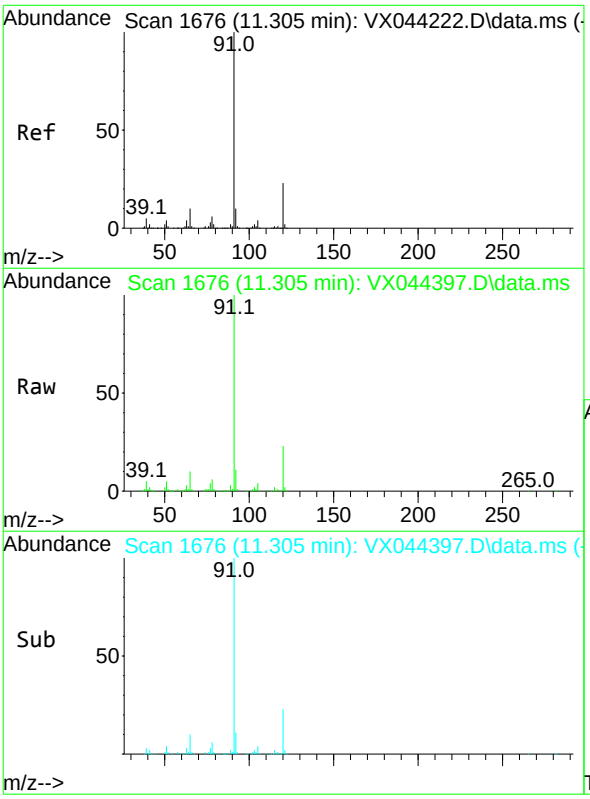
Ion	Ratio	Lower	Upper
156	100		
77	160.6	82.6	247.8
158	97.9	48.8	146.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

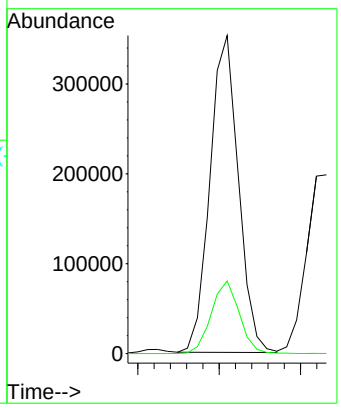


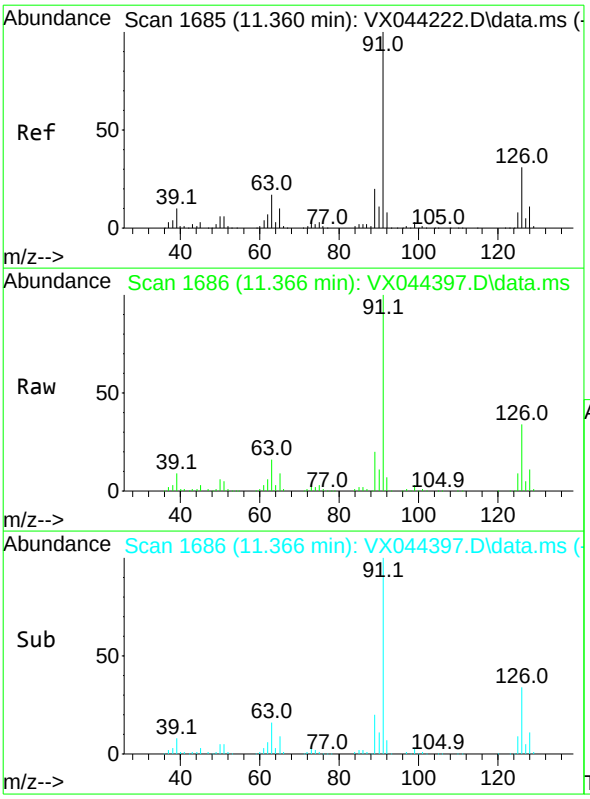


#78
n-propylbenzene
Concen: 53.471 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 91 Resp: 428354

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.0	33.0





#79
2-Chlorotoluene
Concen: 50.109 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

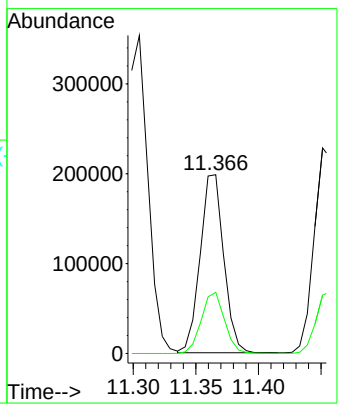
Tgt Ion: 91 Resp: 259611

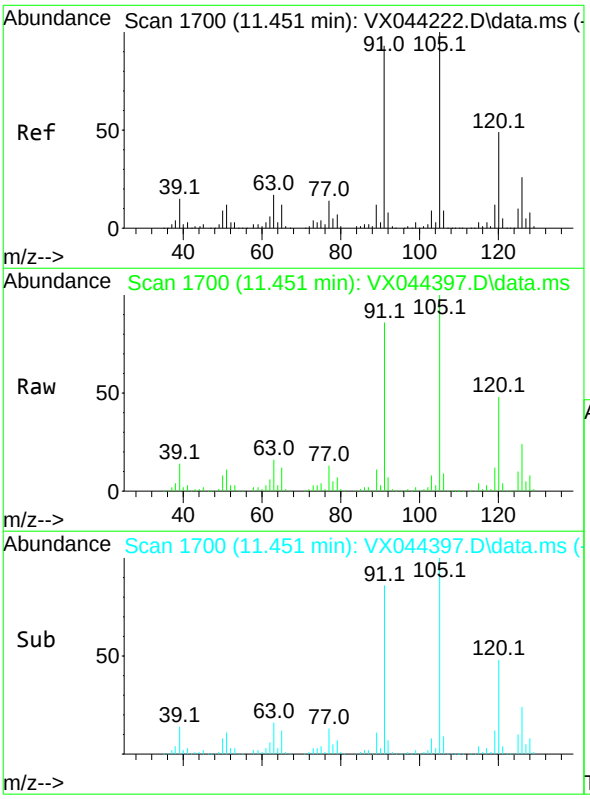
Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.4	49.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

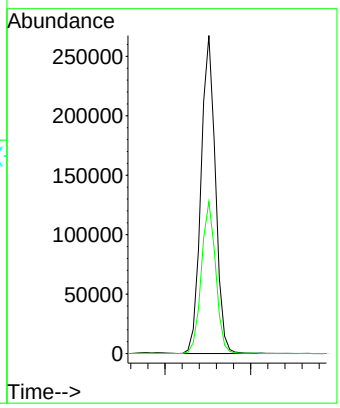


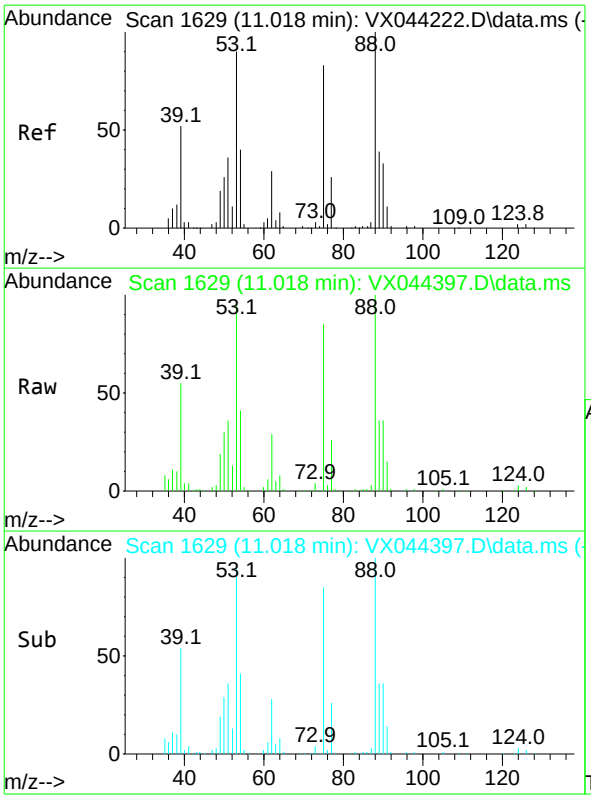


#80
1,3,5-Trimethylbenzene
Concen: 52.028 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:105 Resp: 312728

Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.8	71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 45.206 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

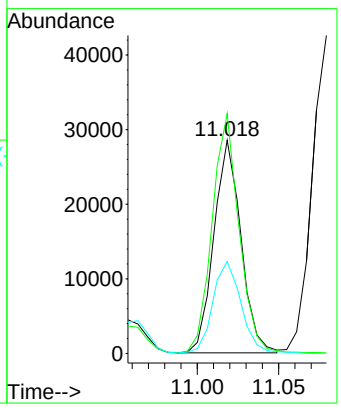
Tgt Ion: 75 Resp: 32905

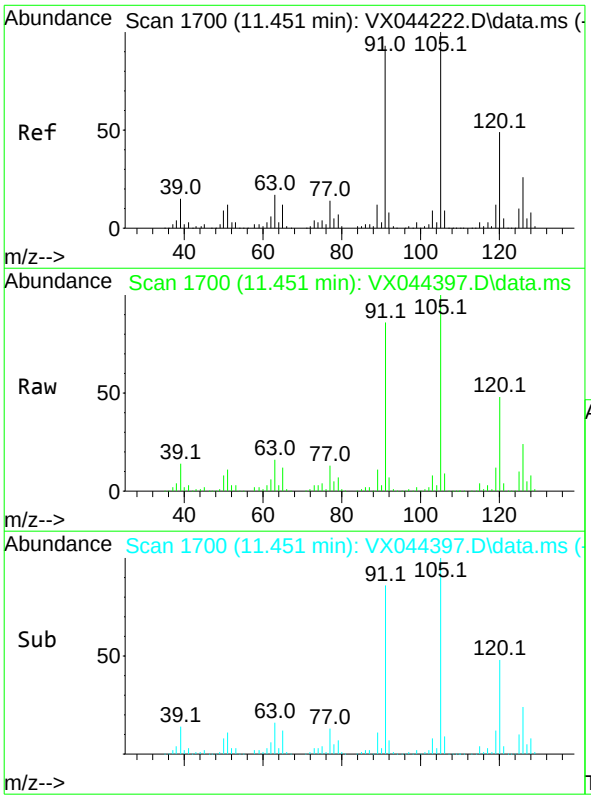
Ion	Ratio	Lower	Upper
75	100		
53	113.2	93.6	140.4
89	45.4	37.3	55.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

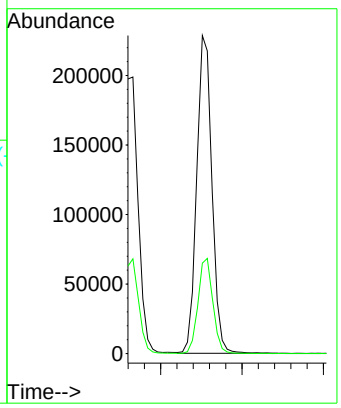


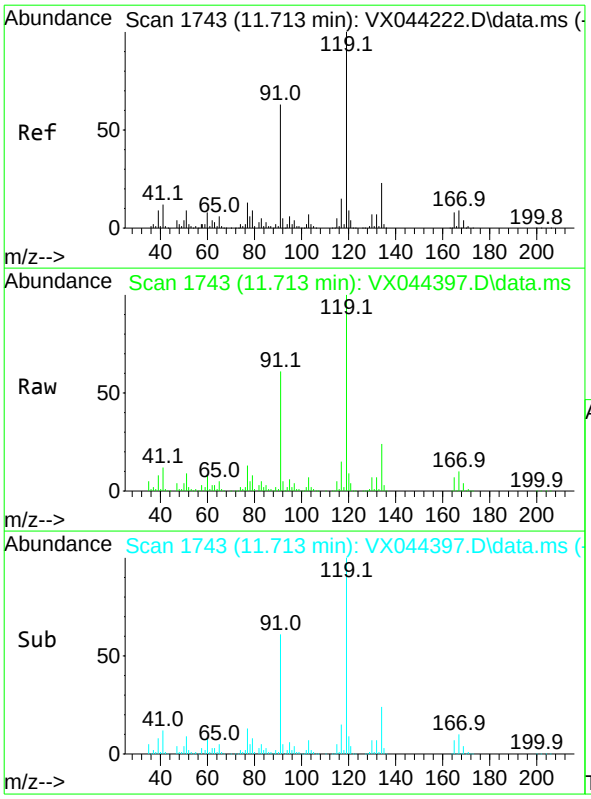


#82
4-Chlorotoluene
Concen: 51.648 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 91 Resp: 296313

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.5	43.5

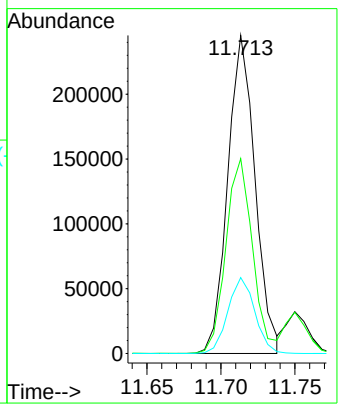




#83
tert-Butylbenzene
Concen: 53.085 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:119 Resp: 315339

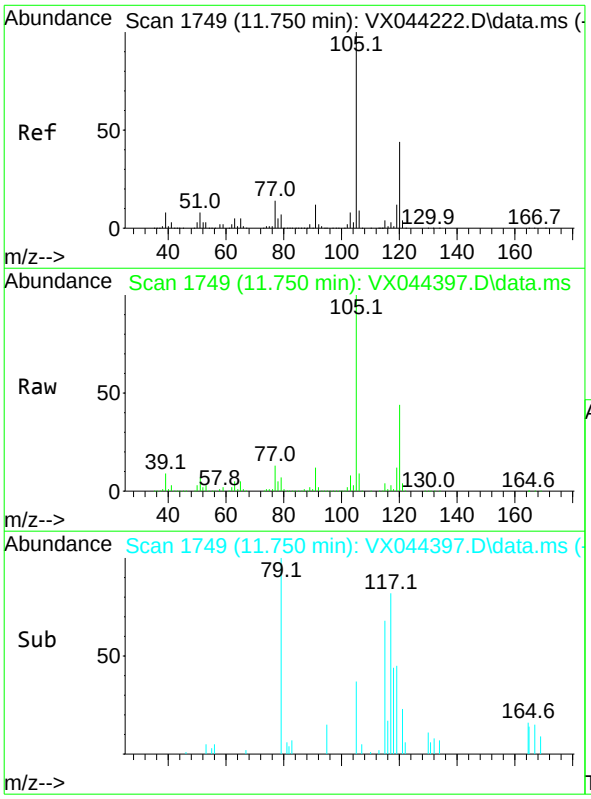
Ion	Ratio	Lower	Upper
119	100		
91	60.1	30.9	92.5
134	23.5	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

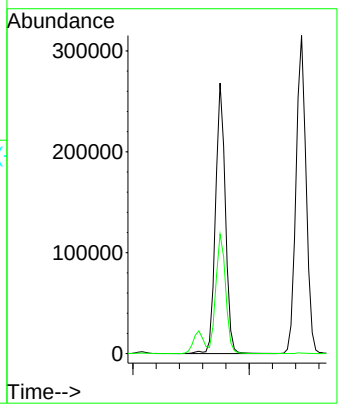
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

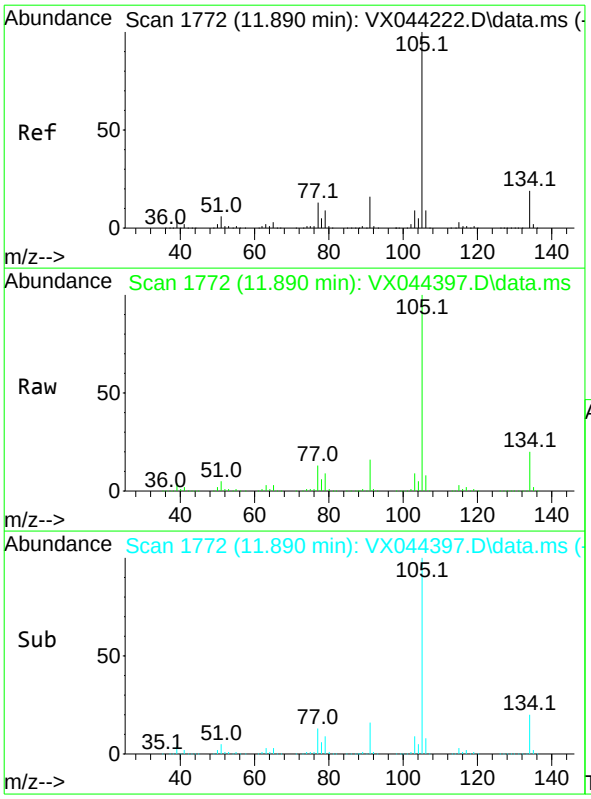


#84
1,2,4-Trimethylbenzene
Concen: 53.346 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:105 Resp: 314902

Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.7	65.1





#85
sec-Butylbenzene
Concen: 52.496 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

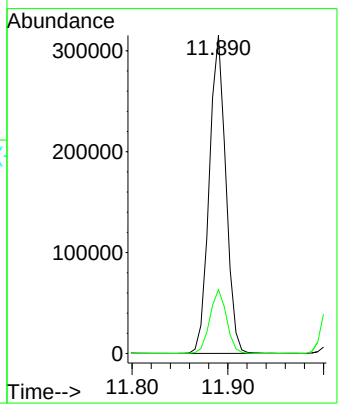
Tgt Ion:105 Resp: 378572

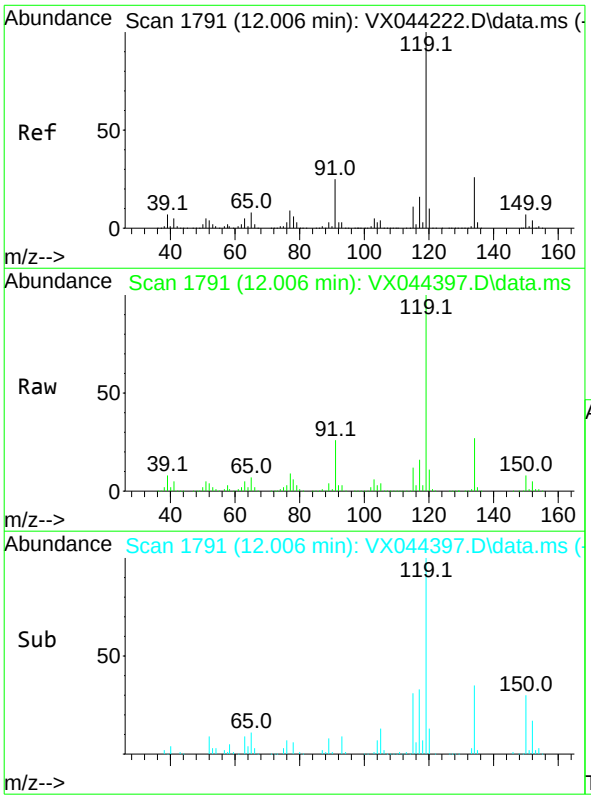
Ion	Ratio	Lower	Upper
105	100		
134	20.2	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

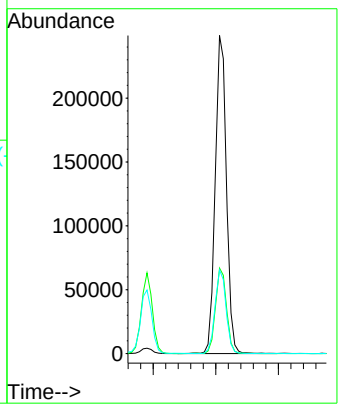


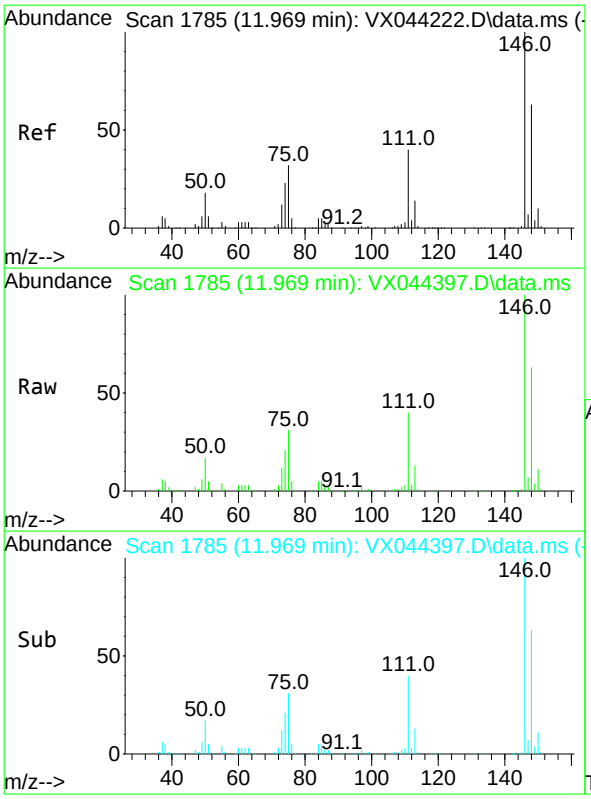


#86
p-Isopropyltoluene
Concen: 51.481 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:119 Resp: 308993

Ion	Ratio	Lower	Upper
119	100		
134	26.5	12.8	38.4
91	26.0	13.0	39.0

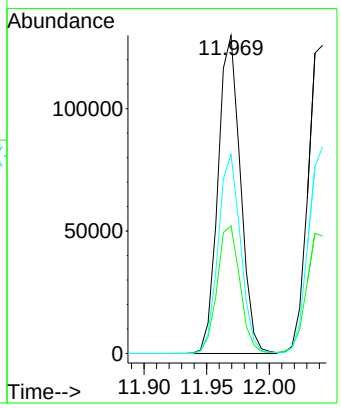




#87
1,3-Dichlorobenzene
Concen: 52.762 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:146 Resp: 161986

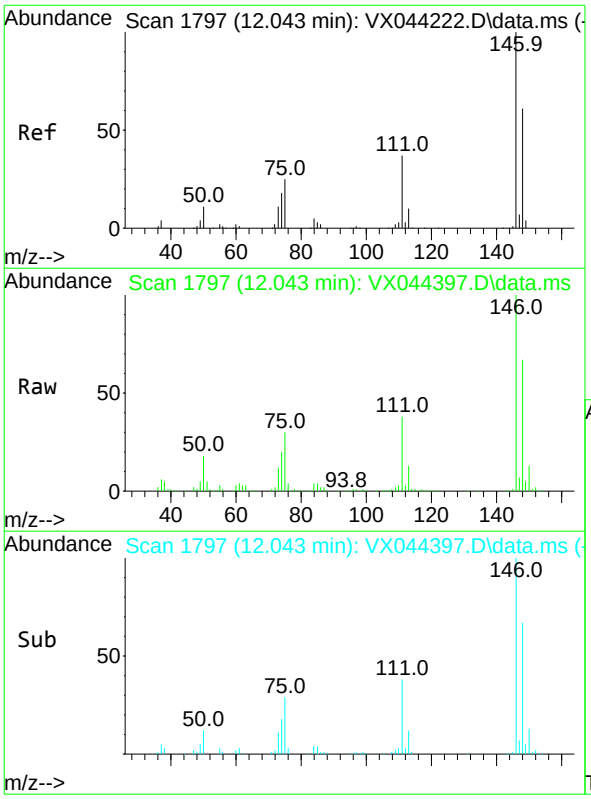
Ion	Ratio	Lower	Upper
146	100		
111	41.1	21.4	64.2
148	62.5	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

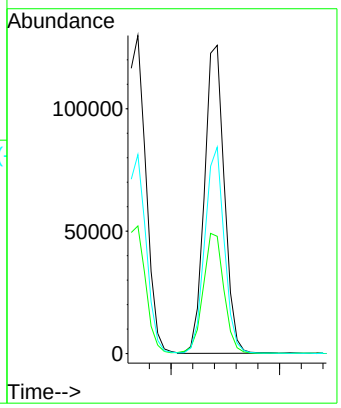
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

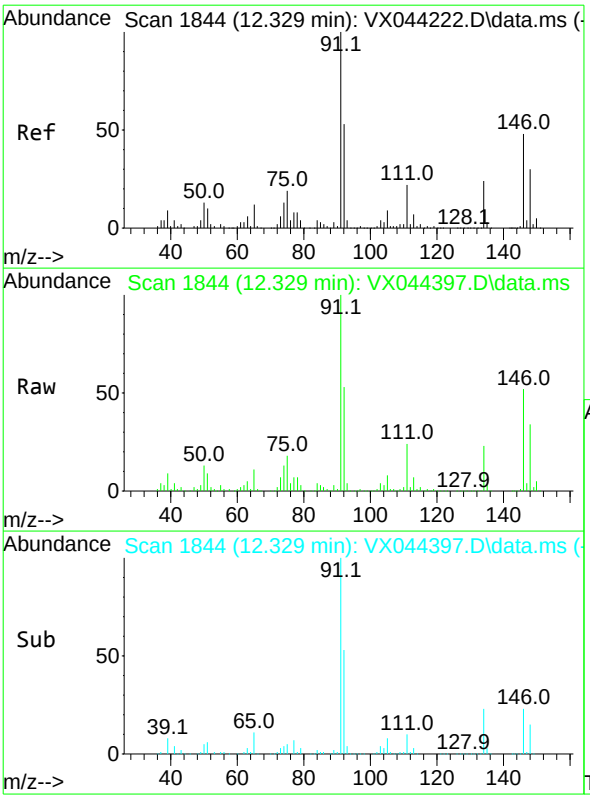


#88
1,4-Dichlorobenzene
Concen: 50.790 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:146 Resp: 160295

Ion	Ratio	Lower	Upper
146	100		
111	40.4	21.0	63.0
148	65.8	32.3	96.8





#89
n-Butylbenzene
Concen: 52.608 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

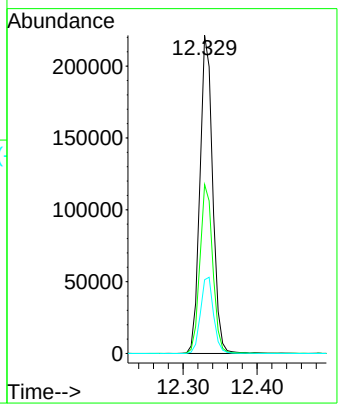
Tgt Ion: 91 Resp: 265516

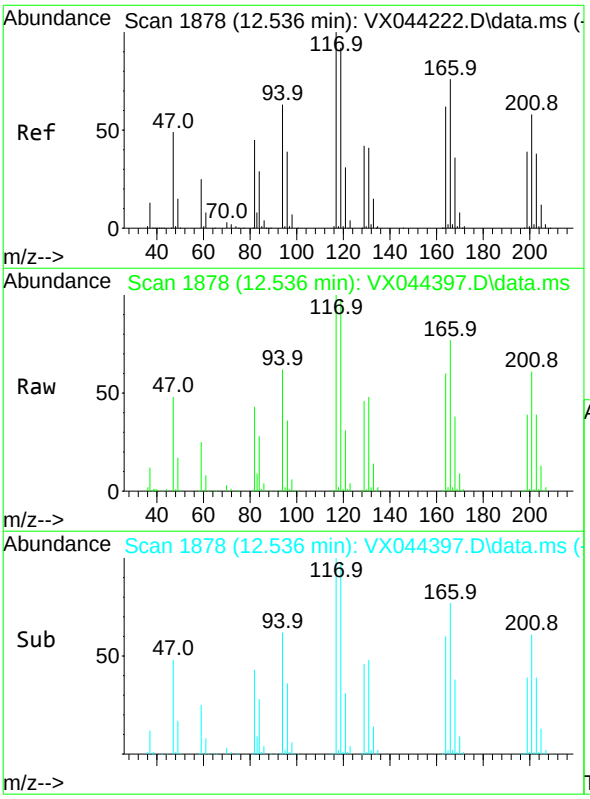
Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.6	79.7
134	24.5	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

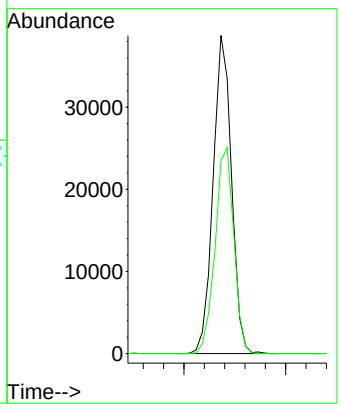


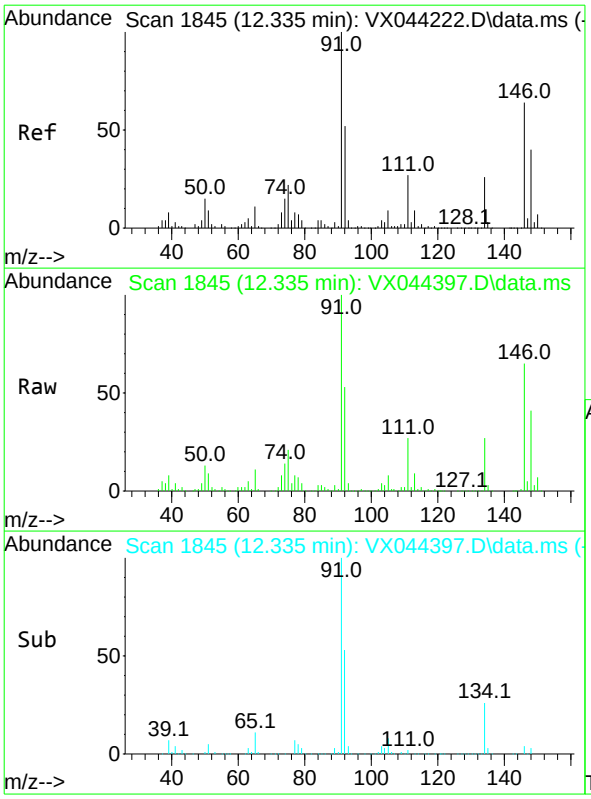


#90
Hexachloroethane
Concen: 55.440 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:117 Resp: 48574

Ion	Ratio	Lower	Upper
117	100		
201	66.1	31.4	94.2





#91
1,2-Dichlorobenzene
Concen: 52.197 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

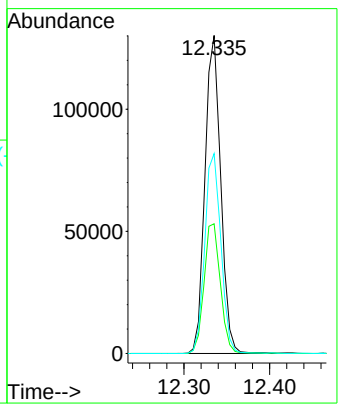
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

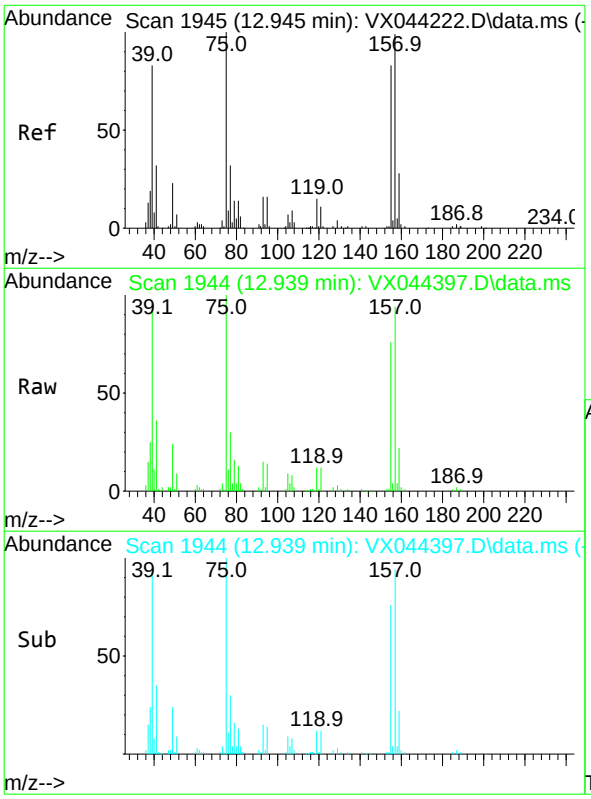
Tgt Ion:146 Resp: 166397

Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.4	64.3
148	64.4	31.6	95.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

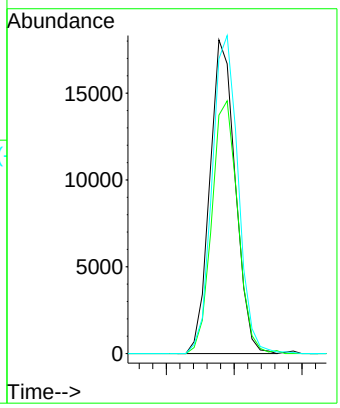


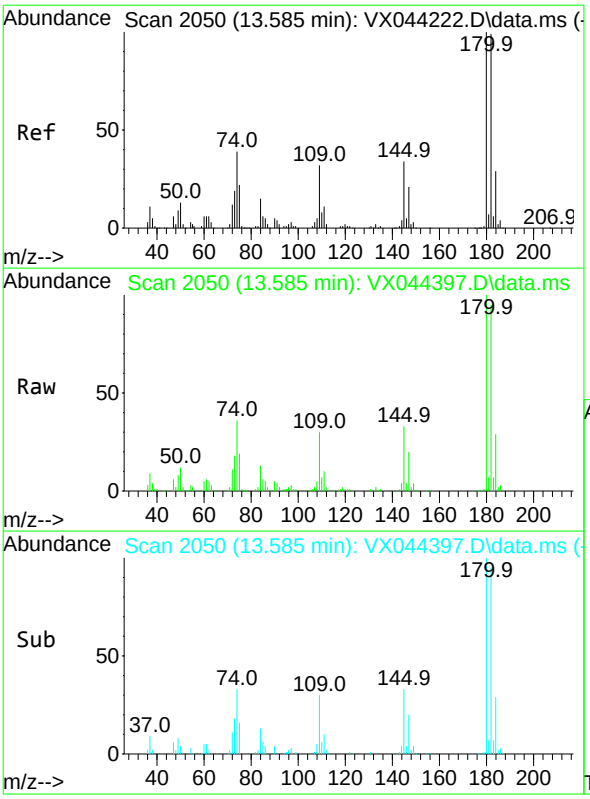


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.201 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 75 Resp: 23556

Ion	Ratio	Lower	Upper
75	100		
155	81.9	38.1	114.3
157	103.6	47.2	141.6





#93
1,2,4-Trichlorobenzene
Concen: 53.639 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

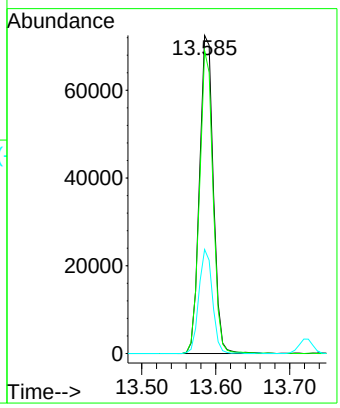
Tgt Ion:180 Resp: 93745

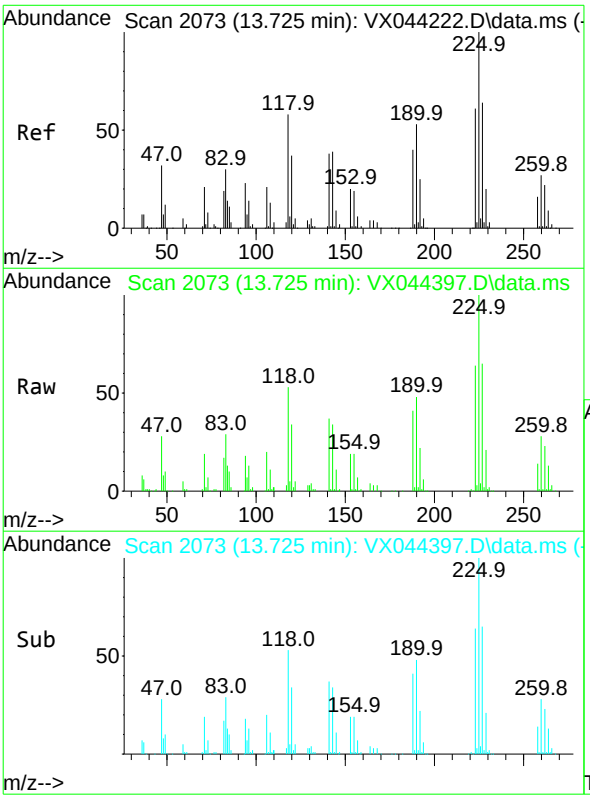
Ion	Ratio	Lower	Upper
180	100		
182	93.1	48.0	144.2
145	32.1	16.6	49.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

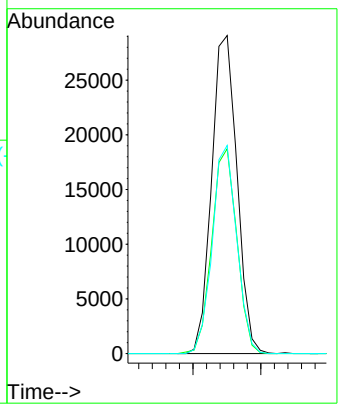


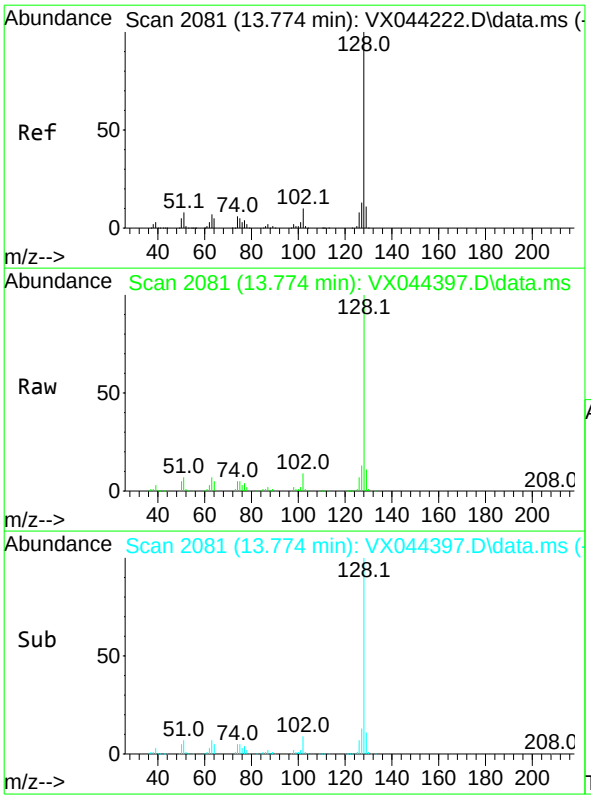


#94
Hexachlorobutadiene
Concen: 53.766 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:225 Resp: 37797

Ion	Ratio	Lower	Upper
225	100		
223	63.4	30.8	92.4
227	63.1	32.1	96.3





#95
Naphthalene
Concen: 50.021 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

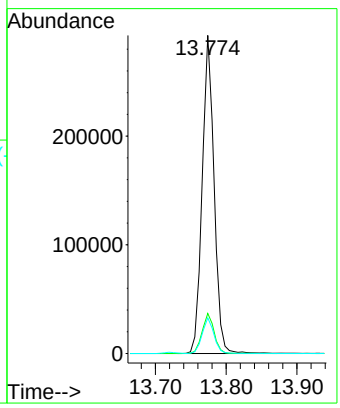
Tgt Ion:128 Resp: 341241

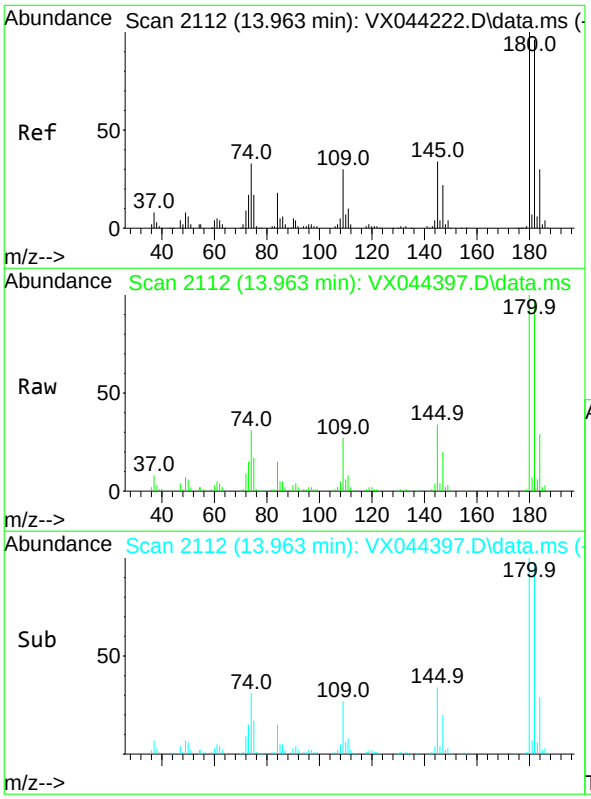
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.5	15.7
129	11.1	9.0	13.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

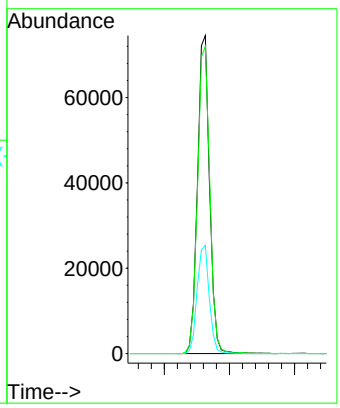




#96
1,2,3-Trichlorobenzene
Concen: 51.669 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:180 Resp: 95779

Ion	Ratio	Lower	Upper
180	100		
182	98.1	48.0	144.0
145	34.3	17.7	53.1



Evaluate Continuing Calibration Report

Sample Results: **VX044397.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044397.D
Acq On : 18 Dec 2024 21:48
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:54:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	108	0.00
2	T	Dichlorodifluoromethane	0.773	0.795	-2.8	108	0.00
3	P	Chloromethane	0.739	0.800	-8.3	114	0.00
4	C	Vinyl Chloride	0.770	0.816	-6.0#	112	0.00
5	T	Bromomethane	0.546	0.536	1.8	105	0.00
6	T	Chloroethane	0.480	0.583	-21.5	118	0.00
7	T	Trichlorofluoromethane	1.508	1.283	14.9	90	0.00
8	T	Diethyl Ether	0.515	0.503	2.3	105	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.610	0.605	0.8	106	0.00
10	T	Methyl Iodide	0.804	0.889	-10.6	113	0.00
11	T	Tert butyl alcohol	0.124	0.115	7.3	103	0.00
12	CM	1,1-Dichloroethene	0.560	0.606	-8.2#	109	0.00
13	T	Acrolein	0.179	0.206	-15.1	120	0.00
14	T	Allyl chloride	0.933	0.982	-5.3	105	0.00
15	T	Acrylonitrile	0.342	0.362	-5.8	109	0.00
16	T	Acetone	0.357	0.316	11.5	89	0.00
17	T	Carbon Disulfide	1.065	1.175	-10.3	110	0.00
18	T	Methyl Acetate	0.922	0.917	0.5	104	0.00
19	T	Methyl tert-butyl Ether	2.187	2.162	1.1	101	0.00
20	T	Methylene Chloride	0.671	0.694	-3.4	108	0.00
21	T	trans-1,2-Dichloroethene	0.596	0.622	-4.4	108	0.00
22	T	Diisopropyl ether	2.102	2.127	-1.2	105	0.00
23	T	Vinyl Acetate	1.709	1.846	-8.0	104	0.00
24	P	1,1-Dichloroethane	1.172	1.235	-5.4	107	0.00
25	T	2-Butanone	0.508	0.502	1.2	99	0.00
26	T	2,2-Dichloropropane	0.952	0.824	13.4	85	0.00
27	T	cis-1,2-Dichloroethene	0.756	0.766	-1.3	107	0.00
28	T	Bromochloromethane	0.575	0.549	4.5	100	0.00
29	T	Tetrahydrofuran	0.326	0.322	1.2	103	0.00
30	C	Chloroform	1.316	1.307	0.7#	105	0.00
31	T	Cyclohexane	0.946	0.938	0.8	103	0.00
32	T	1,1,1-Trichloroethane	1.093	1.128	-3.2	103	0.00
33	S	1,2-Dichloroethane-d4	0.877	0.798	9.0	93	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
35	S	Dibromofluoromethane	0.346	0.354	-2.3	99	0.00
36	T	1,1-Dichloropropene	0.448	0.461	-2.9	106	0.00
37	T	Ethyl Acetate	0.553	0.568	-2.7	100	0.00
38	T	Carbon Tetrachloride	0.482	0.502	-4.1	103	0.00
39	T	Methylcyclohexane	0.535	0.545	-1.9	101	0.00
40	TM	Benzene	1.359	1.475	-8.5	107	0.00
41	T	Methacrylonitrile	0.294	0.310	-5.4	106	0.00
42	TM	1,2-Dichloroethane	0.560	0.564	-0.7	99	0.00
43	T	Isopropyl Acetate	0.865	0.898	-3.8	101	0.00
44	TM	Trichloroethene	0.339	0.355	-4.7	105	0.00
45	C	1,2-Dichloropropane	0.347	0.365	-5.2#	105	0.00
46	T	Dibromomethane	0.269	0.285	-5.9	102	0.00
47	T	Bromodichloromethane	0.465	0.515	-10.8	104	0.00
48	T	Methyl methacrylate	0.420	0.418	0.5	97	0.00

Sample Results: **VX044397.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044397.D
Acq On : 18 Dec 2024 21:48
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:54:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.005	28.6#	72	0.00
50	S	Toluene-d8	1.168	1.174	-0.5	96	0.00
51	T	4-Methyl-2-Pentanone	0.556	0.569	-2.3	99	0.00
52	CM	Toluene	0.853	0.893	-4.7#	105	0.00
53	T	t-1,3-Dichloropropene	0.455	0.481	-5.7	96	0.00
54	T	cis-1,3-Dichloropropene	0.507	0.550	-8.5	100	0.00
55	T	1,1,2-Trichloroethane	0.339	0.364	-7.4	105	0.00
56	T	Ethyl methacrylate	0.535	0.571	-6.7	102	0.00
57	T	1,3-Dichloropropane	0.590	0.617	-4.6	103	0.00
58	T	2-Chloroethyl Vinyl ether	0.270	0.266	1.5	93	0.00
59	T	2-Hexanone	0.403	0.416	-3.2	97	0.00
60	T	Dibromochloromethane	0.326	0.357	-9.5	99	0.00
61	T	1,2-Dibromoethane	0.345	0.374	-8.4	104	0.00
62	S	4-Bromofluorobenzene	0.408	0.401	1.7	93	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
64	T	Tetrachloroethene	0.332	0.350	-5.4	109	0.00
65	PM	Chlorobenzene	1.071	1.130	-5.5	103	0.00
66	T	1,1,1,2-Tetrachloroethane	0.344	0.387	-12.5	103	0.00
67	C	Ethyl Benzene	1.851	1.951	-5.4#	101	0.00
68	T	m/p-Xylenes	0.679	0.742	-9.3	105	0.00
69	T	o-Xylene	0.687	0.733	-6.7	104	0.00
70	T	Styrene	1.102	1.211	-9.9	104	0.00
71	P	Bromoform	0.219	0.252	-15.1	101	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
73	T	Isopropylbenzene	3.828	4.037	-5.5	103	0.00
74	T	N-amyl acetate	1.769	1.851	-4.6	96	0.00
75	P	1,1,2,2-Tetrachloroethane	1.329	1.368	-2.9	102	0.00
76	T	1,2,3-Trichloropropane	1.116	1.128	-1.1	100	0.00
77	T	Bromobenzene	0.928	0.968	-4.3	102	0.00
78	T	n-propylbenzene	4.231	4.524	-6.9	100	0.00
79	T	2-Chlorotoluene	2.736	2.742	-0.2	98	0.00
80	T	1,3,5-Trimethylbenzene	3.174	3.303	-4.1	99	0.00
81	T	trans-1,4-Dichloro-2-butene	0.347	0.348	-0.3	94	0.00
82	T	4-Chlorotoluene	3.030	3.130	-3.3	100	0.00
83	T	tert-Butylbenzene	3.137	3.331	-6.2	102	0.00
84	T	1,2,4-Trimethylbenzene	3.117	3.326	-6.7	100	0.00
85	T	sec-Butylbenzene	3.808	3.998	-5.0	100	0.00
86	T	p-Isopropyltoluene	3.170	3.264	-3.0	97	0.00
87	T	1,3-Dichlorobenzene	1.621	1.711	-5.6	101	0.00
88	T	1,4-Dichlorobenzene	1.667	1.693	-1.6	101	0.00
89	T	n-Butylbenzene	2.665	2.804	-5.2	98	0.00
90	T	Hexachloroethane	0.463	0.513	-10.8	101	0.00
91	T	1,2-Dichlorobenzene	1.683	1.757	-4.4	101	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.258	0.249	3.5	91	0.00
93	T	1,2,4-Trichlorobenzene	0.923	0.990	-7.3	101	0.00
94	T	Hexachlorobutadiene	0.371	0.399	-7.5	107	0.00
95	T	Naphthalene	3.603	3.604	-0.0	93	0.00

Sample Results: **VX044397.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044397.D
Acq On : 18 Dec 2024 21:48
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:54:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.979	1.012	-3.4	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Sample Results: **VX044397.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044397.D
Acq On : 18 Dec 2024 21:48
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:54:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	108	0.00
2	T	Dichlorodifluoromethane	50.000	51.383	-2.8	108	0.00
3	P	Chloromethane	50.000	54.116	-8.2	114	0.00
4	C	Vinyl Chloride	50.000	52.982	-6.0#	112	0.00
5	T	Bromomethane	50.000	49.001	2.0	105	0.00
6	T	Chloroethane	50.000	60.808	-21.6	118	0.00
7	T	Trichlorofluoromethane	50.000	42.551	14.9	90	0.00
8	T	Diethyl Ether	50.000	48.894	2.2	105	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.568	0.9	106	0.00
10	T	Methyl Iodide	50.000	55.298	-10.6	113	0.00
11	T	Tert butyl alcohol	250.000	233.146	6.7	103	0.00
12	CM	1,1-Dichloroethene	50.000	54.088	-8.2#	109	0.00
13	T	Acrolein	250.000	287.785	-15.1	120	0.00
14	T	Allyl chloride	50.000	52.597	-5.2	105	0.00
15	T	Acrylonitrile	250.000	264.238	-5.7	109	0.00
16	T	Acetone	250.000	221.165	11.5	89	0.00
17	T	Carbon Disulfide	50.000	55.140	-10.3	110	0.00
18	T	Methyl Acetate	50.000	49.781	0.4	104	0.00
19	T	Methyl tert-butyl Ether	50.000	49.423	1.2	101	0.00
20	T	Methylene Chloride	50.000	51.666	-3.3	108	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.232	-4.5	108	0.00
22	T	Diisopropyl ether	50.000	50.590	-1.2	105	0.00
23	T	Vinyl Acetate	250.000	270.083	-8.0	104	0.00
24	P	1,1-Dichloroethane	50.000	52.681	-5.4	107	0.00
25	T	2-Butanone	250.000	247.114	1.2	99	0.00
26	T	2,2-Dichloropropane	50.000	43.294	13.4	85	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.631	-1.3	107	0.00
28	T	Bromochloromethane	50.000	47.791	4.4	100	0.00
29	T	Tetrahydrofuran	250.000	246.831	1.3	103	0.00
30	C	Chloroform	50.000	49.644	0.7#	105	0.00
31	T	Cyclohexane	50.000	49.582	0.8	103	0.00
32	T	1,1,1-Trichloroethane	50.000	51.614	-3.2	103	0.00
33	S	1,2-Dichloroethane-d4	50.000	45.507	9.0	93	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	103	0.00
35	S	Dibromofluoromethane	50.000	51.157	-2.3	99	0.00
36	T	1,1-Dichloropropene	50.000	51.438	-2.9	106	0.00
37	T	Ethyl Acetate	50.000	51.297	-2.6	100	0.00
38	T	Carbon Tetrachloride	50.000	52.064	-4.1	103	0.00
39	T	Methylcyclohexane	50.000	50.884	-1.8	101	0.00
40	TM	Benzene	50.000	54.246	-8.5	107	0.00
41	T	Methacrylonitrile	50.000	52.726	-5.5	106	0.00
42	TM	1,2-Dichloroethane	50.000	50.400	-0.8	99	0.00
43	T	Isopropyl Acetate	50.000	51.907	-3.8	101	0.00
44	TM	Trichloroethene	50.000	52.403	-4.8	105	0.00
45	C	1,2-Dichloropropane	50.000	52.551	-5.1#	105	0.00
46	T	Dibromomethane	50.000	52.923	-5.8	102	0.00
47	T	Bromodichloromethane	50.000	55.381	-10.8	104	0.00
48	T	Methyl methacrylate	50.000	49.782	0.4	97	0.00

Sample Results: **VX044397.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044397.D
Acq On : 18 Dec 2024 21:48
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:54:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	762.005	23.8	72	0.00
50	S	Toluene-d8	50.000	50.233	-0.5	96	0.00
51	T	4-Methyl-2-Pentanone	250.000	255.786	-2.3	99	0.00
52	CM	Toluene	50.000	52.287	-4.6#	105	0.00
53	T	t-1,3-Dichloropropene	50.000	48.259	3.5	96	0.00
54	T	cis-1,3-Dichloropropene	50.000	54.285	-8.6	100	0.00
55	T	1,1,2-Trichloroethane	50.000	53.669	-7.3	105	0.00
56	T	Ethyl methacrylate	50.000	53.333	-6.7	102	0.00
57	T	1,3-Dichloropropane	50.000	52.251	-4.5	103	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	246.430	1.4	93	0.00
59	T	2-Hexanone	250.000	258.095	-3.2	97	0.00
60	T	Dibromochloromethane	50.000	49.779	0.4	99	0.00
61	T	1,2-Dibromoethane	50.000	54.158	-8.3	104	0.00
62	S	4-Bromofluorobenzene	50.000	49.060	1.9	93	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
64	T	Tetrachloroethene	50.000	52.769	-5.5	109	0.00
65	PM	Chlorobenzene	50.000	52.745	-5.5	103	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	56.175	-12.3	103	0.00
67	C	Ethyl Benzene	50.000	52.690	-5.4#	101	0.00
68	T	m/p-Xylenes	100.000	109.271	-9.3	105	0.00
69	T	o-Xylene	50.000	53.305	-6.6	104	0.00
70	T	Styrene	50.000	54.971	-9.9	104	0.00
71	P	Bromoform	50.000	52.002	-4.0	101	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	99	0.00
73	T	Isopropylbenzene	50.000	52.735	-5.5	103	0.00
74	T	N-amyl acetate	50.000	52.327	-4.7	96	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	51.441	-2.9	102	0.00
76	T	1,2,3-Trichloropropane	50.000	50.517	-1.0	100	0.00
77	T	Bromobenzene	50.000	52.151	-4.3	102	0.00
78	T	n-propylbenzene	50.000	53.471	-6.9	100	0.00
79	T	2-Chlorotoluene	50.000	50.109	-0.2	98	0.00
80	T	1,3,5-Trimethylbenzene	50.000	52.028	-4.1	99	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	45.206	9.6	94	0.00
82	T	4-Chlorotoluene	50.000	51.648	-3.3	100	0.00
83	T	tert-Butylbenzene	50.000	53.085	-6.2	102	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.346	-6.7	100	0.00
85	T	sec-Butylbenzene	50.000	52.496	-5.0	100	0.00
86	T	p-Isopropyltoluene	50.000	51.481	-3.0	97	0.00
87	T	1,3-Dichlorobenzene	50.000	52.762	-5.5	101	0.00
88	T	1,4-Dichlorobenzene	50.000	50.790	-1.6	101	0.00
89	T	n-Butylbenzene	50.000	52.608	-5.2	98	0.00
90	T	Hexachloroethane	50.000	55.440	-10.9	101	0.00
91	T	1,2-Dichlorobenzene	50.000	52.197	-4.4	101	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.201	3.6	91	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.639	-7.3	101	0.00
94	T	Hexachlorobutadiene	50.000	53.766	-7.5	107	0.00
95	T	Naphthalene	50.000	50.021	-0.0	93	0.00

Sample Results: **VX044397.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044397.D
Acq On : 18 Dec 2024 21:48
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:54:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.669	-3.3	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VX044419.D**

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: Calibration Date/Time:

Lab File ID: Init. Calib. Date(s):

Heated Purge: (Y/N) Init. Calib. Time(s):

GC Column: ID: (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Sample Results: **VX044419.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044419.D
Acq On : 19 Dec 2024 07:14
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Dec 19 07:44:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	122991	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	219241	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	189779	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	85459	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	104245	48.341	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 96.680%			
35) Dibromofluoromethane	5.385	113	79392	52.285	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.580%			
50) Toluene-d8	8.647	98	254301	49.641	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.280%			
62) 4-Bromofluorobenzene	11.079	95	86833	48.509	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.020%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	89297	46.955	ug/l	100
3) Chloromethane	1.294	50	94895	52.180	ug/l	99
4) Vinyl Chloride	1.374	62	96779	51.081	ug/l	98
5) Bromomethane	1.593	94	67589	50.285	ug/l	98
6) Chloroethane	1.666	64	69289	58.732	ug/l	98
7) Trichlorofluoromethane	1.867	101	148267	39.974	ug/l	95
8) Diethyl Ether	2.136	74	61722	48.751	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	64278	42.827	ug/l	98
10) Methyl Iodide	2.447	142	106921	54.052	ug/l	97
11) Tert butyl alcohol	2.983	59	80157	263.745	ug/l	97
12) 1,1-Dichloroethene	2.306	96	71141	51.604	ug/l	98
13) Acrolein	2.233	56	126270	287.020	ug/l	99
14) Allyl chloride	2.654	41	113429	49.398	ug/l	97
15) Acrylonitrile	3.068	53	226510	269.056	ug/l	100
16) Acetone	2.386	43	206787	235.213	ug/l	96
17) Carbon Disulfide	2.502	76	140202	53.502	ug/l	99
18) Methyl Acetate	2.703	43	117756	51.949	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	276100	51.323	ug/l	97
20) Methylene Chloride	2.782	84	87526	53.006	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	73529	50.186	ug/l	99
22) Diisopropyl ether	3.763	45	264037	51.065	ug/l	98
23) Vinyl Acetate	3.721	43	1167975	277.841	ug/l	98
24) 1,1-Dichloroethane	3.605	63	150830	52.331	ug/l	99
25) 2-Butanone	4.556	43	313889	251.145	ug/l	96
26) 2,2-Dichloropropane	4.471	77	63758	27.229	ug/l	93
27) cis-1,2-Dichloroethene	4.489	96	92907	49.930	ug/l	93
28) Bromochloromethane	4.897	49	71184	50.366	ug/l	100
29) Tetrahydrofuran	5.007	42	203906	254.175	ug/l	99
30) Chloroform	5.086	83	159252	49.178	ug/l	98
31) Cyclohexane	5.464	56	99678	42.827	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	130746	48.640	ug/l	98
36) 1,1-Dichloropropene	5.684	75	91756	46.748	ug/l	99
37) Ethyl Acetate	4.721	43	126767	52.248	ug/l	98
38) Carbon Tetrachloride	5.672	117	102311	48.416	ug/l	98
39) Methylcyclohexane	7.379	83	97486	41.546	ug/l	97
40) Benzene	6.031	78	313202	52.556	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044419.D
Acq On : 19 Dec 2024 07:14
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Dec 19 07:44:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.916	41	68638	53.276 ug/l	98
42) 1,2-Dichloroethane	6.086	62	126056	51.349 ug/l	97
43) Isopropyl Acetate	6.342	43	203865	53.759 ug/l	99
44) Trichloroethene	7.123	130	75596	50.868 ug/l	99
45) 1,2-Dichloropropane	7.427	63	80013	52.553 ug/l	99
46) Dibromomethane	7.580	93	62821	53.185 ug/l	93
47) Bromodichloromethane	7.824	83	111053	54.439 ug/l	99
48) Methyl methacrylate	7.690	41	93853	50.984 ug/l	95
49) 1,4-Dioxane	7.665	88	28322	927.969 ug/l #	85
51) 4-Methyl-2-Pentanone	8.574	43	637240	261.345 ug/l	99
52) Toluene	8.714	92	183930	49.148 ug/l	98
53) t-1,3-Dichloropropene	8.976	75	100994	46.368 ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	111565	50.228 ug/l	97
55) 1,1,2-Trichloroethane	9.153	97	79401	53.407 ug/l	99
56) Ethyl methacrylate	9.116	69	125407	53.432 ug/l	99
57) 1,3-Dichloropropane	9.305	76	135107	52.210 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	279300	235.938 ug/l	98
59) 2-Hexanone	9.433	43	464936	263.434 ug/l	98
60) Dibromochloromethane	9.519	129	79931	50.717 ug/l	99
61) 1,2-Dibromoethane	9.610	107	81759	54.026 ug/l	100
64) Tetrachloroethene	9.269	164	58220	46.221 ug/l	98
65) Chlorobenzene	10.079	112	200803	49.379 ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	71094	54.398 ug/l	99
67) Ethyl Benzene	10.189	91	341788	48.644 ug/l	99
68) m/p-Xylenes	10.299	106	256314	99.414 ug/l	96
69) o-Xylene	10.640	106	128864	49.398 ug/l	96
70) Styrene	10.652	104	216799	51.842 ug/l	96
71) Bromoform	10.799	173	48213	52.457 ug/l #	99
73) Isopropylbenzene	10.963	105	314366	48.052 ug/l	99
74) N-amyl acetate	10.841	43	166301	55.002 ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	119667	52.663 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	97804m	51.257 ug/l	
77) Bromobenzene	11.195	156	81167	51.162 ug/l	97
78) n-propylbenzene	11.305	91	351524	48.614 ug/l	100
79) 2-Chlorotoluene	11.360	91	220699	47.194 ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	263525	48.573 ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	26316	40.690 ug/l	97
82) 4-Chlorotoluene	11.451	91	251878	48.639 ug/l	99
83) tert-Butylbenzene	11.713	119	262462	48.951 ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	264960	49.728 ug/l	99
85) sec-Butylbenzene	11.890	105	308602	47.411 ug/l	98
86) p-Isopropyltoluene	12.006	119	257648	47.558 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	140315	50.634 ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	140008	49.148 ug/l	97
89) n-Butylbenzene	12.329	91	214353	47.053 ug/l	99
90) Hexachloroethane	12.536	117	40378	51.057 ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	145586	50.596 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	22216	50.364 ug/l	88
93) 1,2,4-Trichlorobenzene	13.585	180	83037	52.638 ug/l	95
94) Hexachlorobutadiene	13.725	225	29885	47.098 ug/l	98
95) Naphthalene	13.774	128	311462	50.581 ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	85722	51.233 ug/l	98

Sample Results: **VX044419.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044419.D
Acq On : 19 Dec 2024 07:14
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 07:44:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VX044419.D**

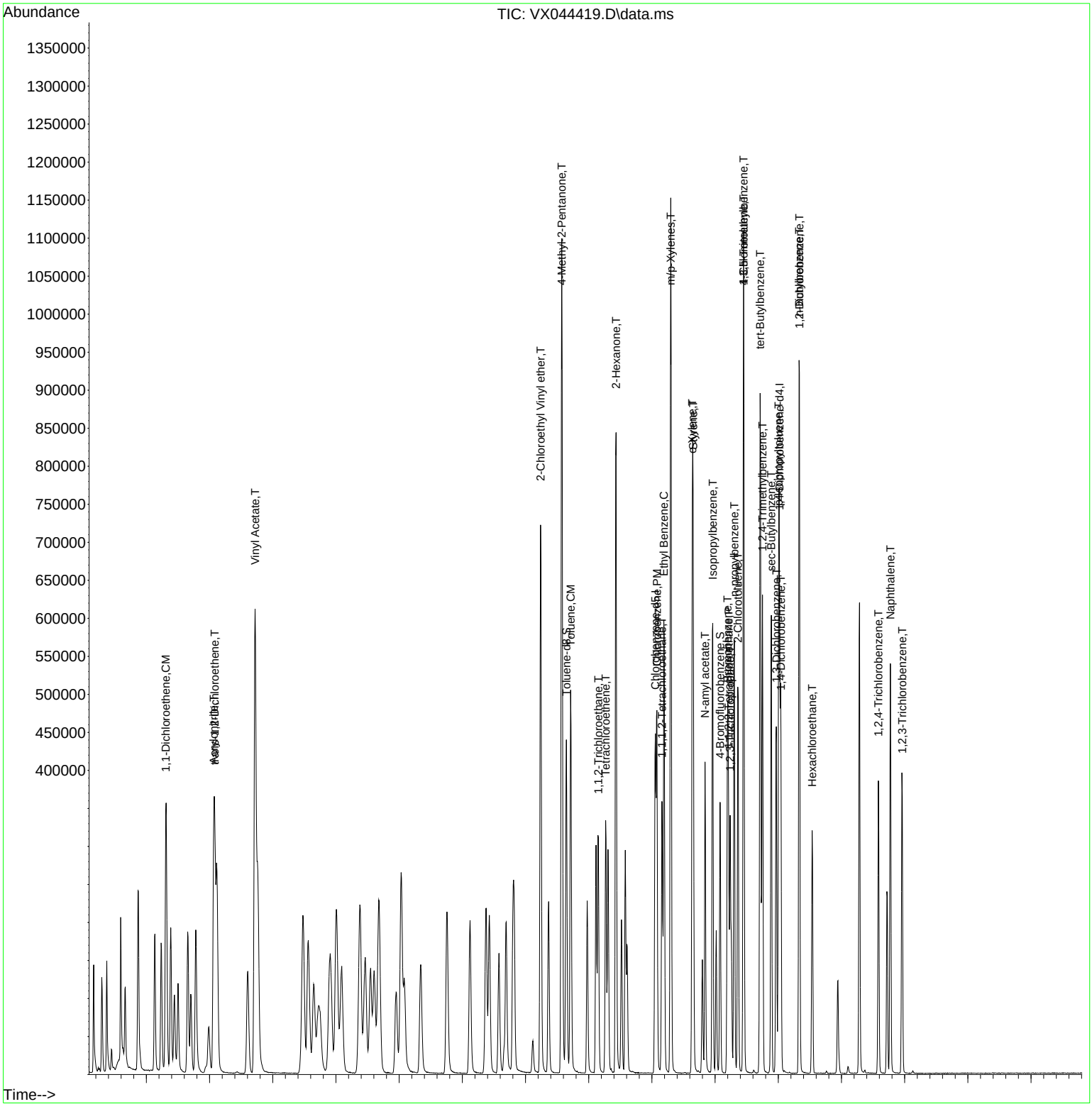
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044419.D
Acq On : 19 Dec 2024 07:14
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 51 Sample Multiplier: 1

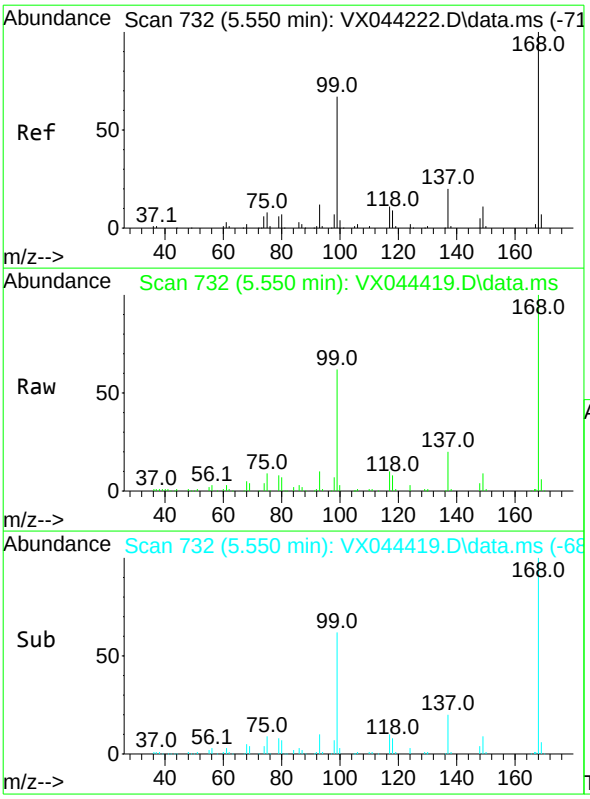
Quant Time: Dec 19 07:44:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

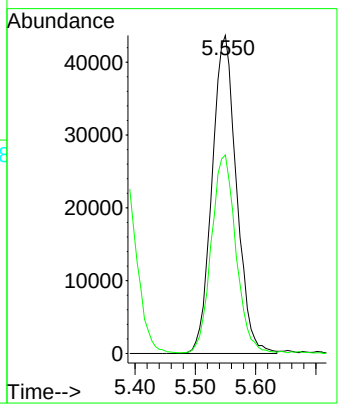
Tgt Ion:168 Resp: 122991

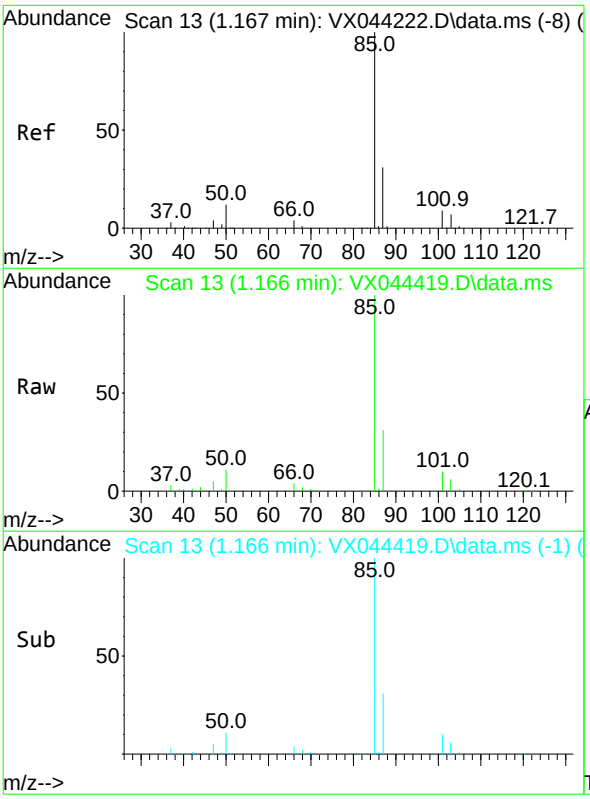
Ion	Ratio	Lower	Upper
168	100		
99	62.2	53.4	80.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

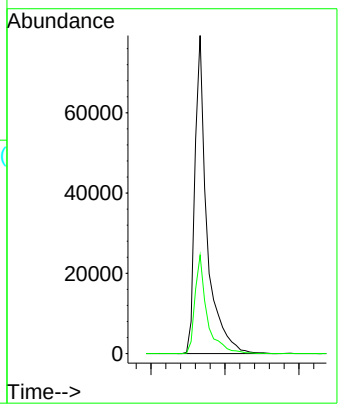


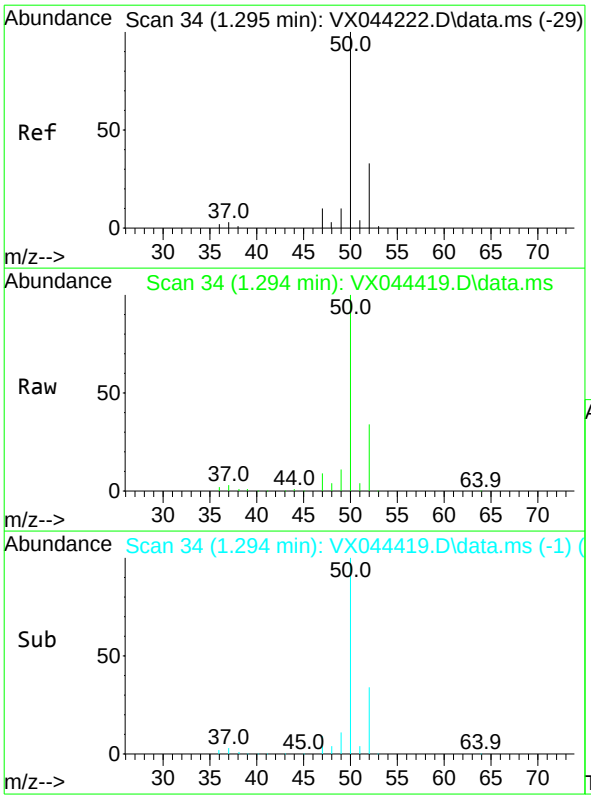


#2
Dichlorodifluoromethane
Concen: 46.955 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 85 Resp: 89297

Ion	Ratio	Lower	Upper
85	100		
87	30.9	15.4	46.4

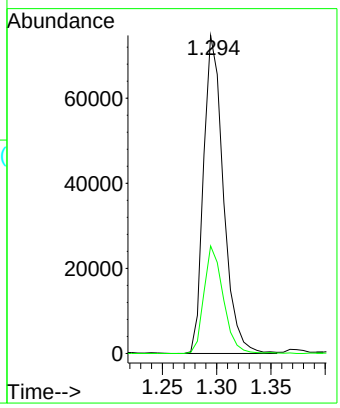




#3
Chloromethane
Concen: 52.180 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 50 Resp: 94895

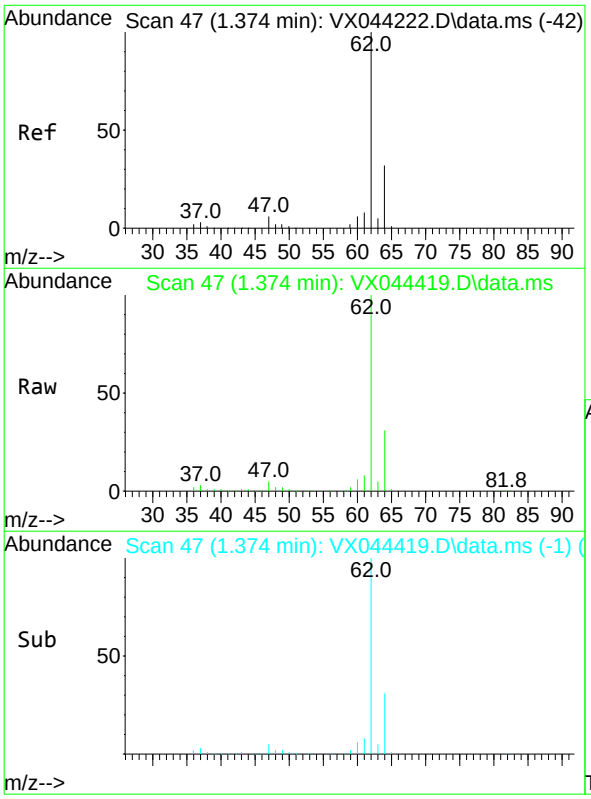
Ion	Ratio	Lower	Upper
50	100		
52	33.8	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

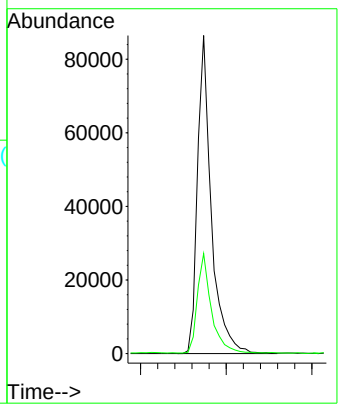
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

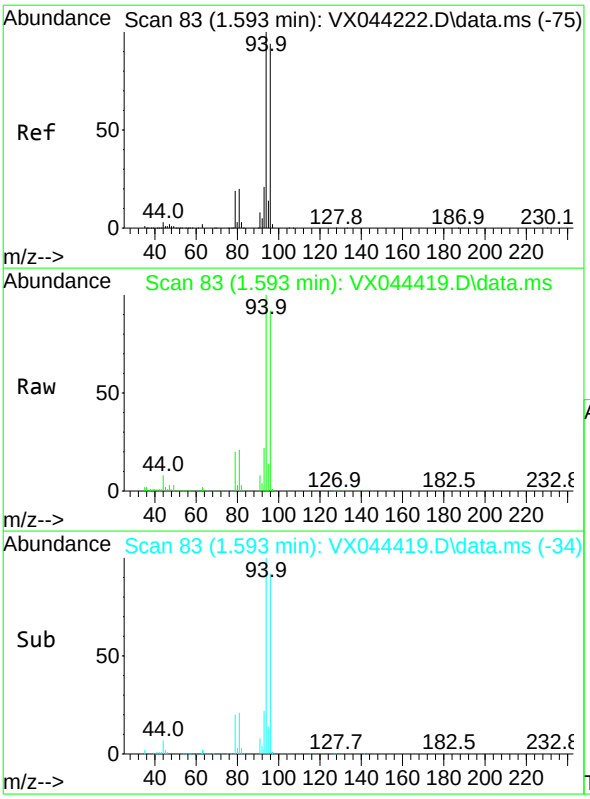


#4
Vinyl Chloride
Concen: 51.081 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 62 Resp: 96779

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.7	38.5

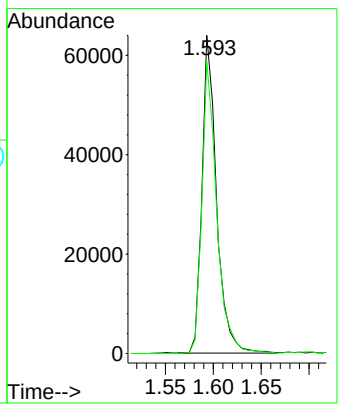




#5
Bromomethane
Concen: 50.285 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 94 Resp: 67589

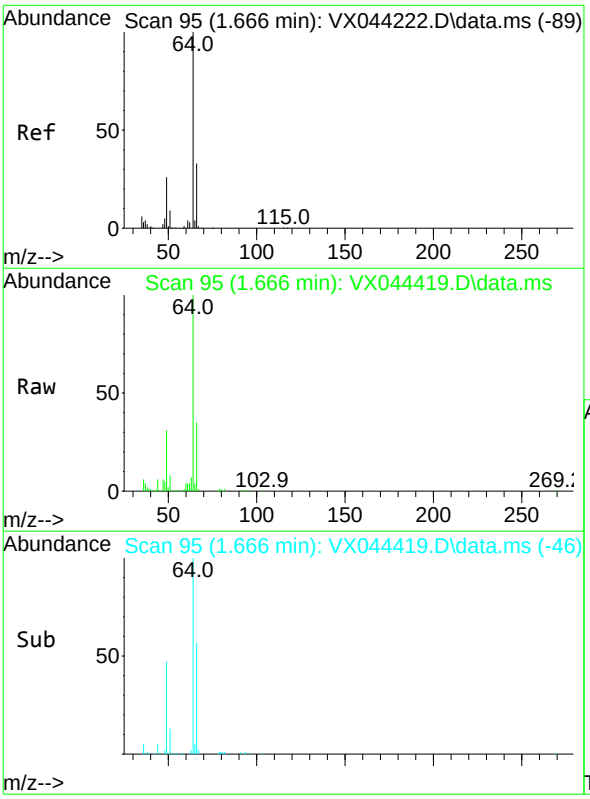
Ion	Ratio	Lower	Upper
94	100		
96	92.0	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

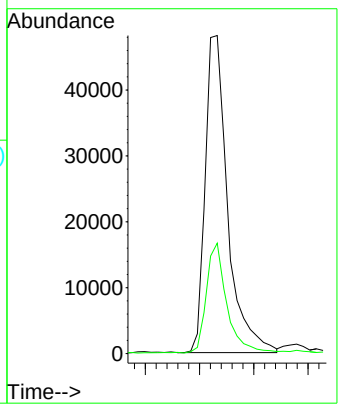
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

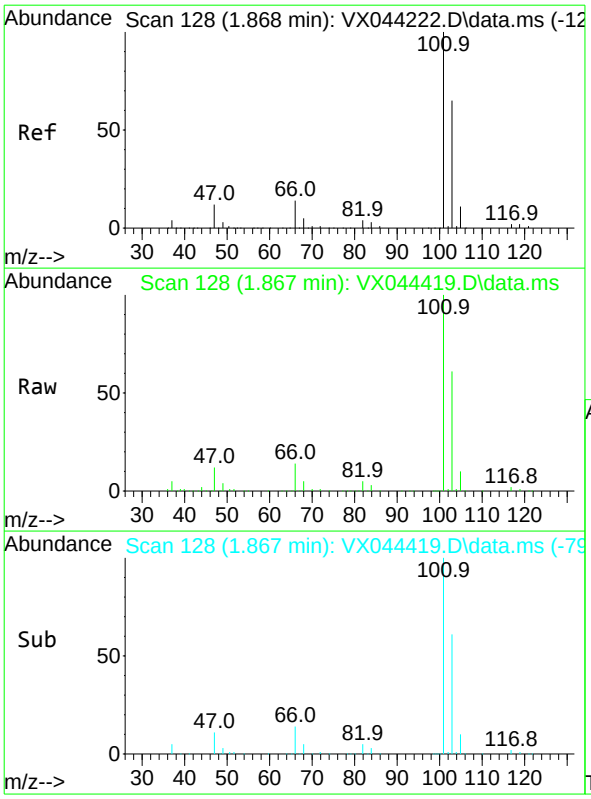


#6
Chloroethane
Concen: 58.732 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 64 Resp: 69289

Ion	Ratio	Lower	Upper
64	100		
66	34.4	26.6	39.8

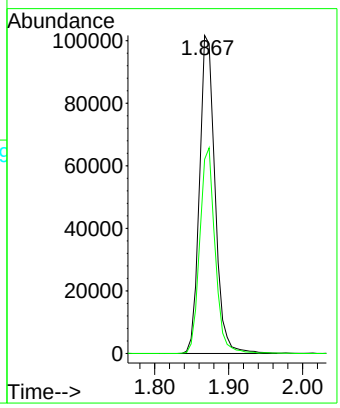




#7
Trichlorofluoromethane
Concen: 39.974 ug/l
RT: 1.867 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:101 Resp: 148267

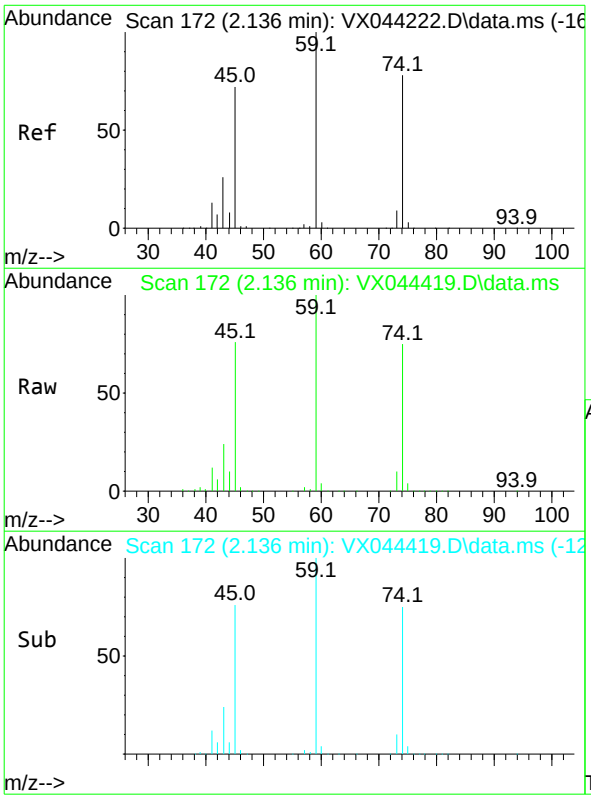
Ion	Ratio	Lower	Upper
101	100		
103	61.0	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

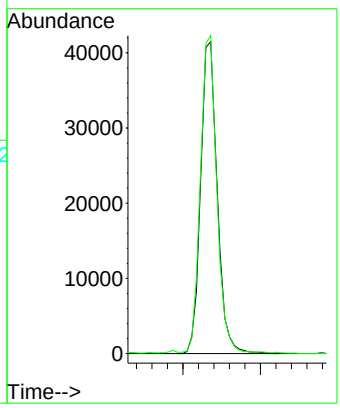
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

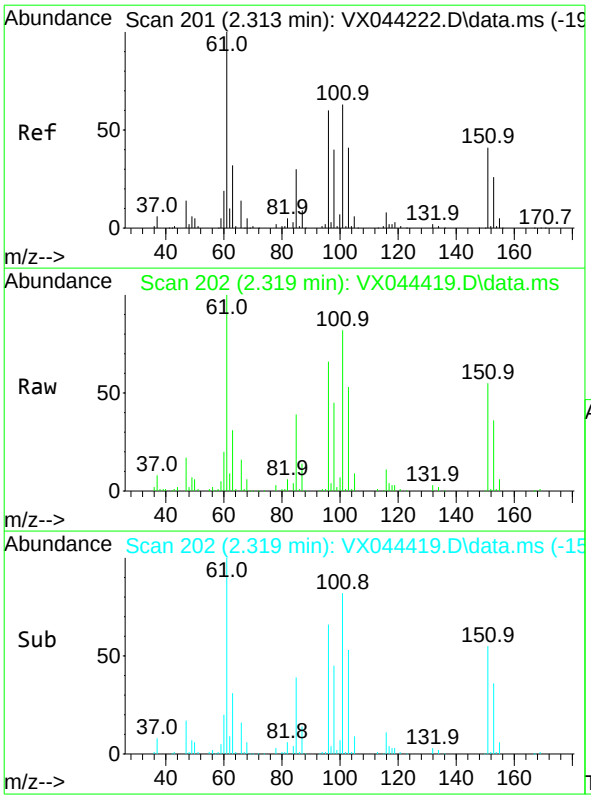


#8
Diethyl Ether
Concen: 48.751 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 74 Resp: 61722

Ion	Ratio	Lower	Upper
74	100		
45	101.6	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 42.827 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

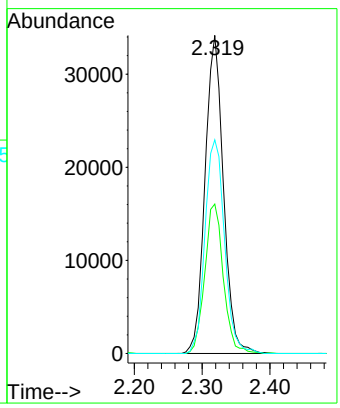
Tgt Ion:101 Resp: 64278

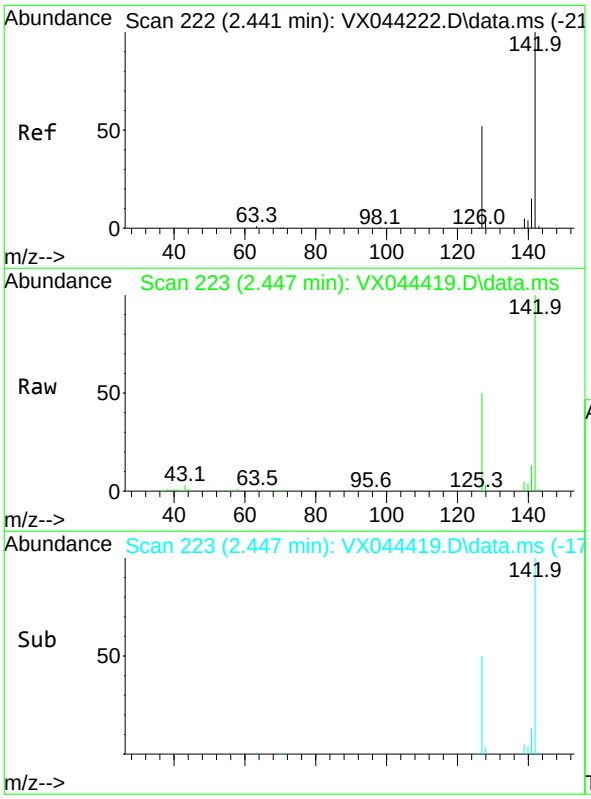
Ion	Ratio	Lower	Upper
101	100		
85	47.5	38.5	57.7
151	71.3	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

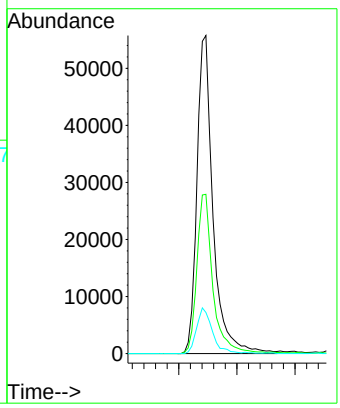


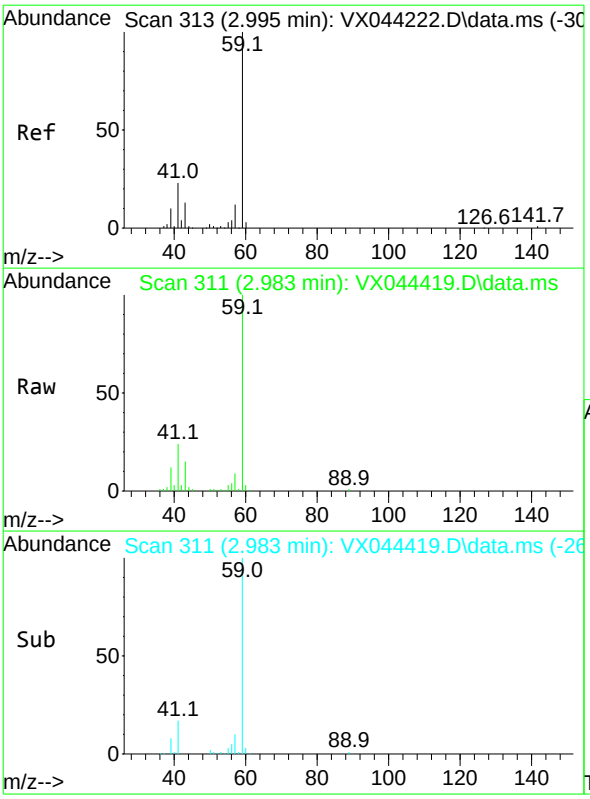


#10
Methyl Iodide
Concen: 54.052 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:142 Resp: 106921

Ion	Ratio	Lower	Upper
142	100		
127	49.9	41.8	62.8
141	14.0	11.5	17.3

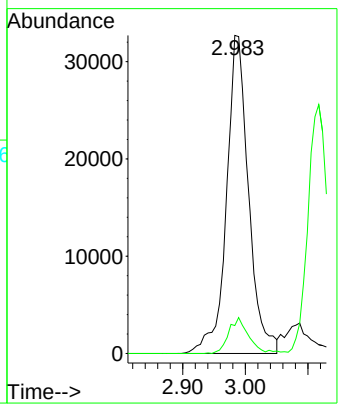




#11
Tert butyl alcohol
Concen: 263.745 ug/l
RT: 2.983 min Scan# 31
Delta R.T. -0.012 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 59 Resp: 80157

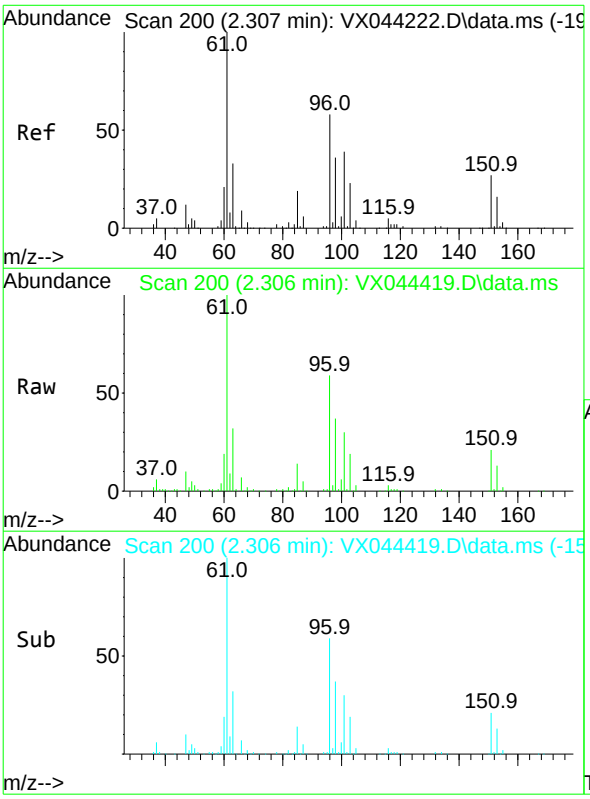
Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

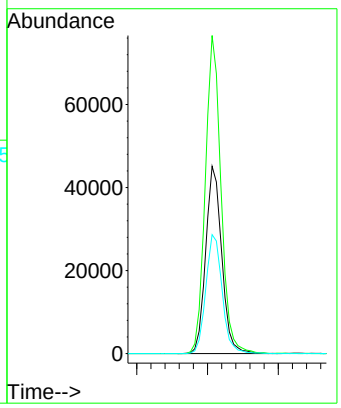
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

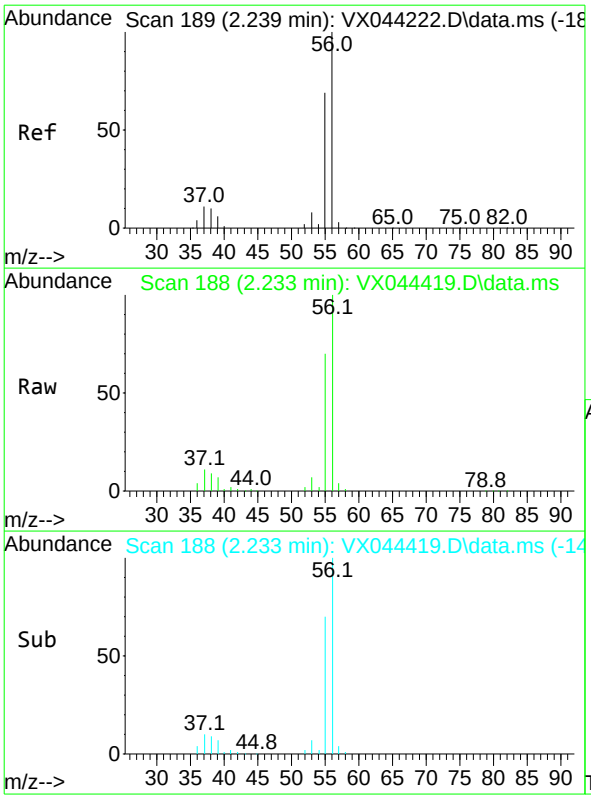


#12
1,1-Dichloroethene
Concen: 51.604 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 96 Resp: 71141

Ion	Ratio	Lower	Upper
96	100		
61	169.8	138.0	207.0
98	63.5	50.0	75.0

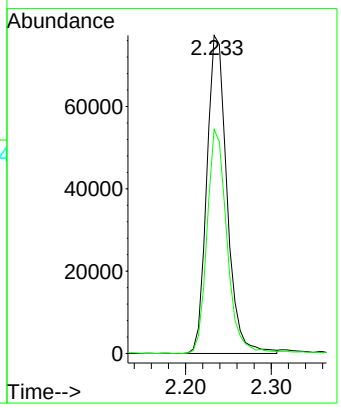




#13
Acrolein
Concen: 287.020 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 56 Resp: 126270

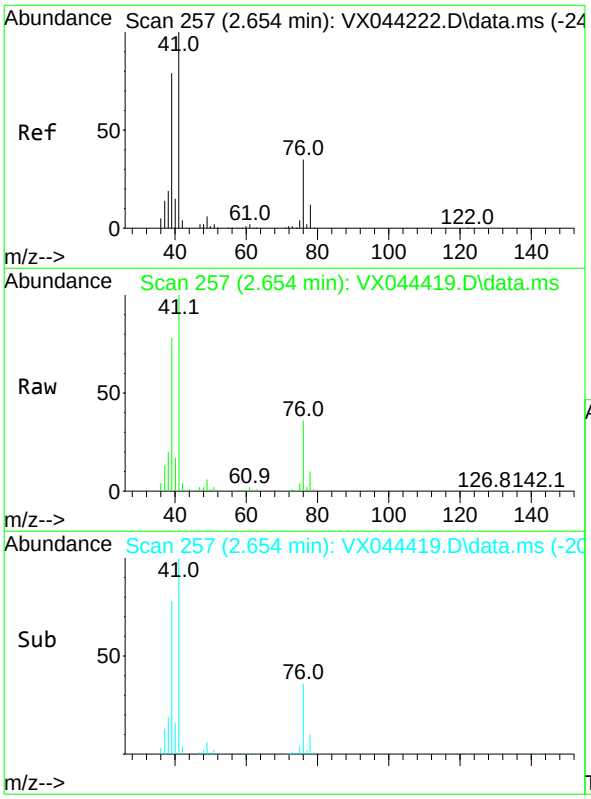
Ion	Ratio	Lower	Upper
56	100		
55	70.2	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

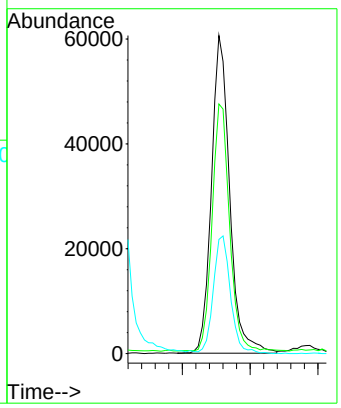
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

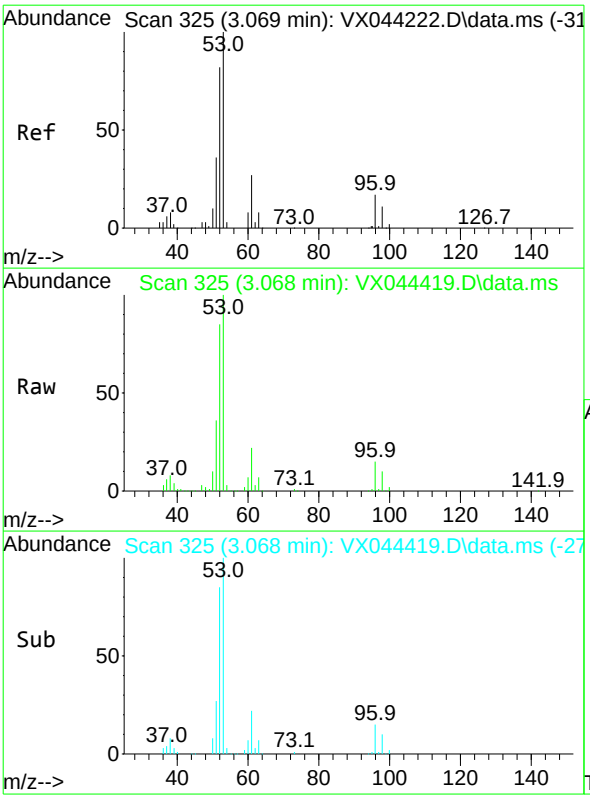


#14
Allyl chloride
Concen: 49.398 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 41 Resp: 113429

Ion	Ratio	Lower	Upper
41	100		
39	74.1	61.9	92.9
76	34.7	27.4	41.2

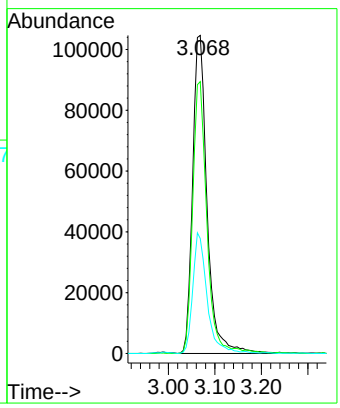




#15
Acrylonitrile
Concen: 269.056 ug/l
RT: 3.068 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 53 Resp: 226510

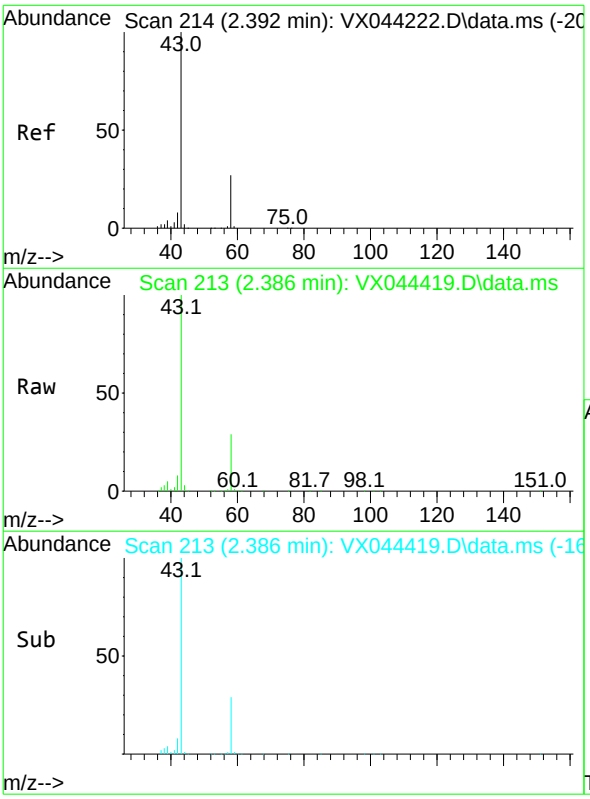
Ion	Ratio	Lower	Upper
53	100		
52	83.9	67.4	101.0
51	37.5	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

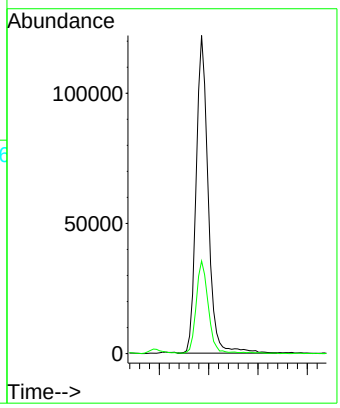
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

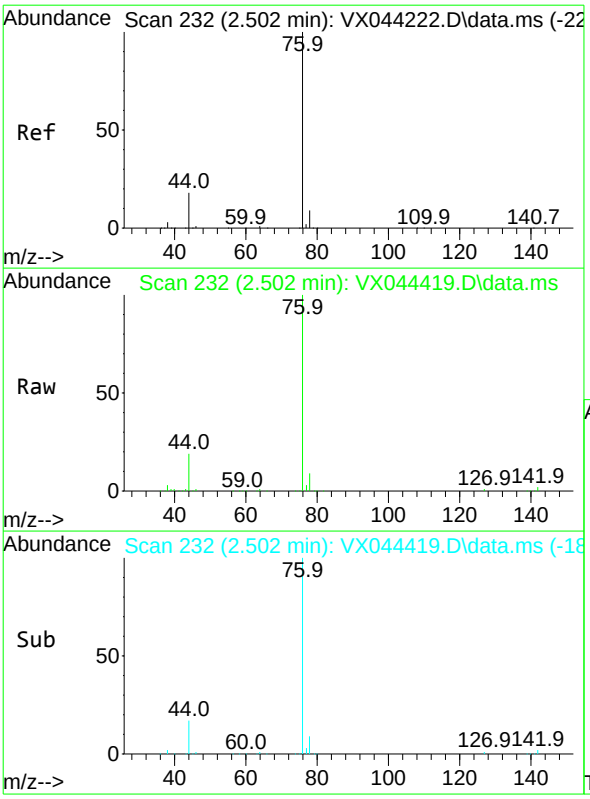


#16
Acetone
Concen: 235.213 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 43 Resp: 206787

Ion	Ratio	Lower	Upper
43	100		
58	29.0	21.6	32.4

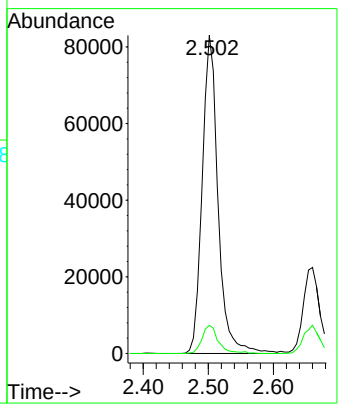




#17
Carbon Disulfide
Concen: 53.502 ug/l
RT: 2.502 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 76 Resp: 140202

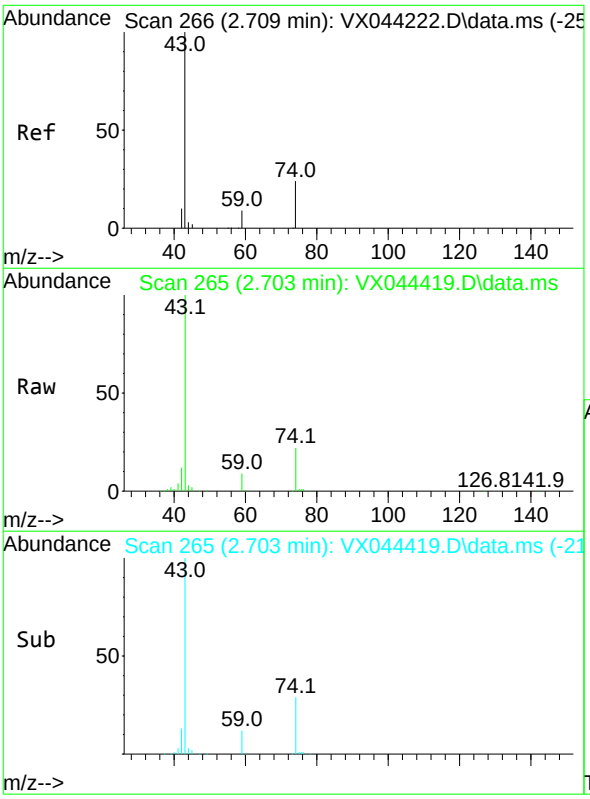
Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

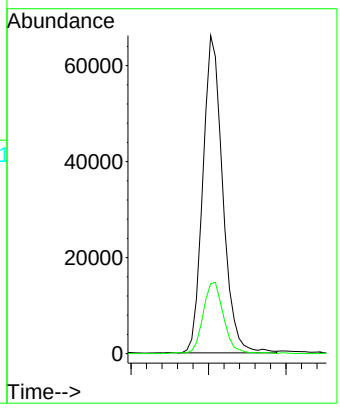
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

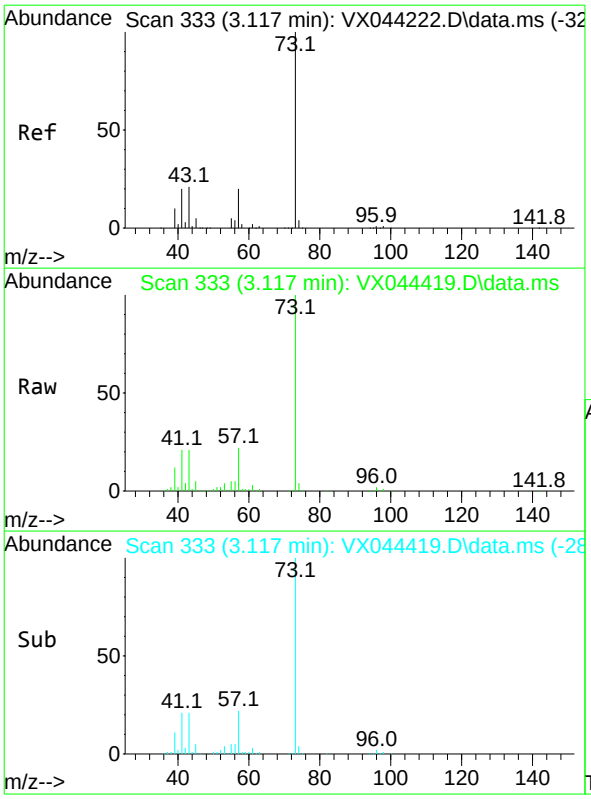


#18
Methyl Acetate
Concen: 51.949 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 43 Resp: 117756

Ion	Ratio	Lower	Upper
43	100		
74	23.2	17.7	26.5

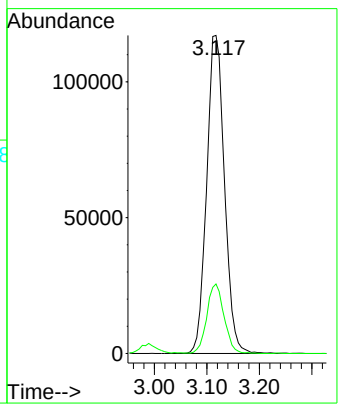




#19
Methyl tert-butyl Ether
Concen: 51.323 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 73 Resp: 276100

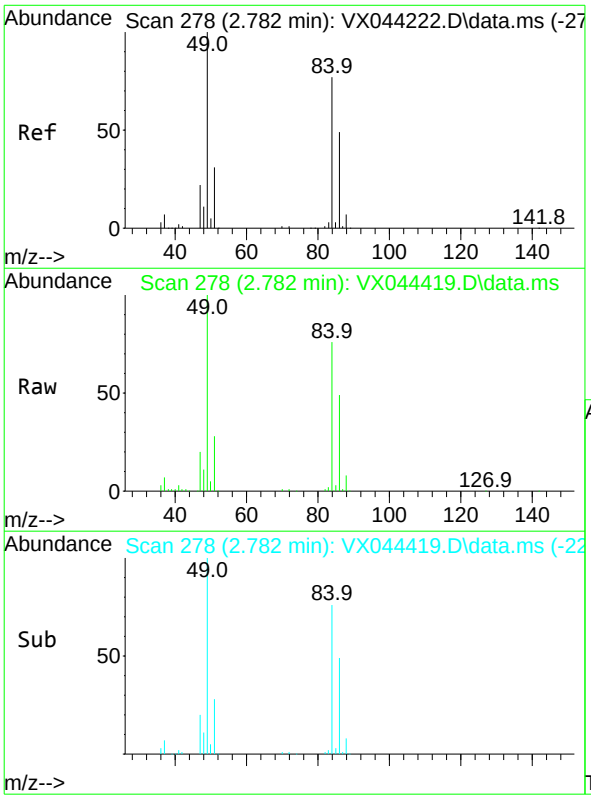
Ion	Ratio	Lower	Upper
73	100		
57	21.7	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

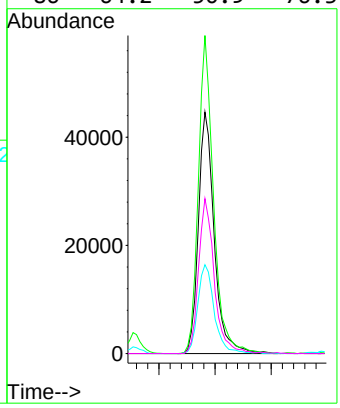
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

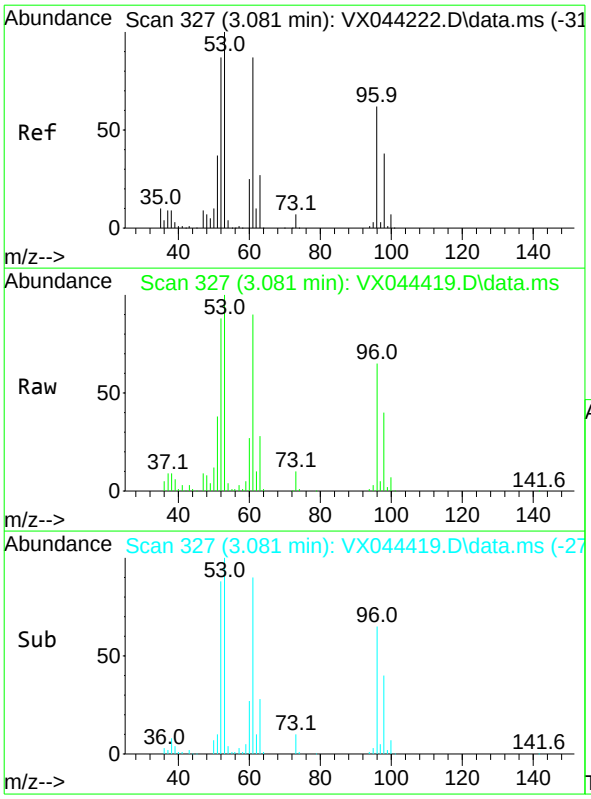


#20
Methylene Chloride
Concen: 53.006 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 84 Resp: 87526

Ion	Ratio	Lower	Upper
84	100		
49	131.7	104.2	156.4
51	36.8	32.2	48.4
86	64.2	50.9	76.3





#21
trans-1,2-Dichloroethene
Concen: 50.186 ug/l
RT: 3.081 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

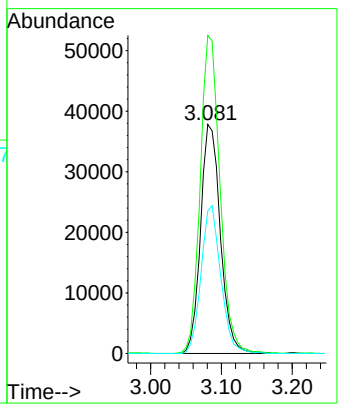
Tgt Ion: 96 Resp: 73529

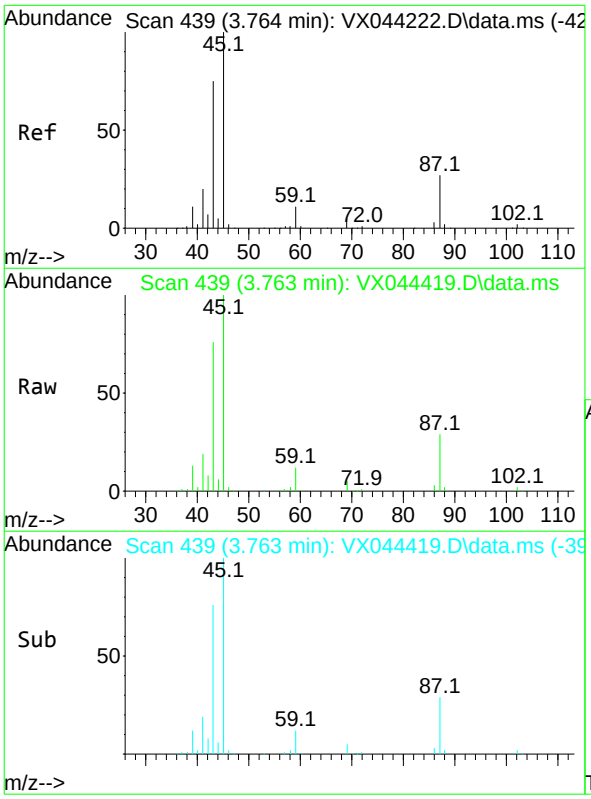
Ion	Ratio	Lower	Upper
96	100		
61	138.7	112.0	168.0
98	62.2	48.8	73.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

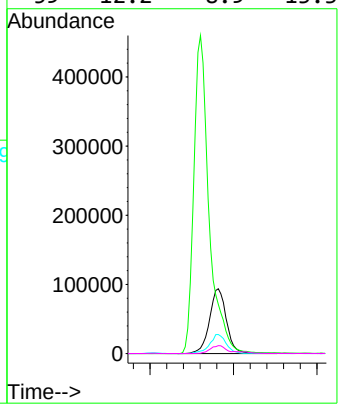


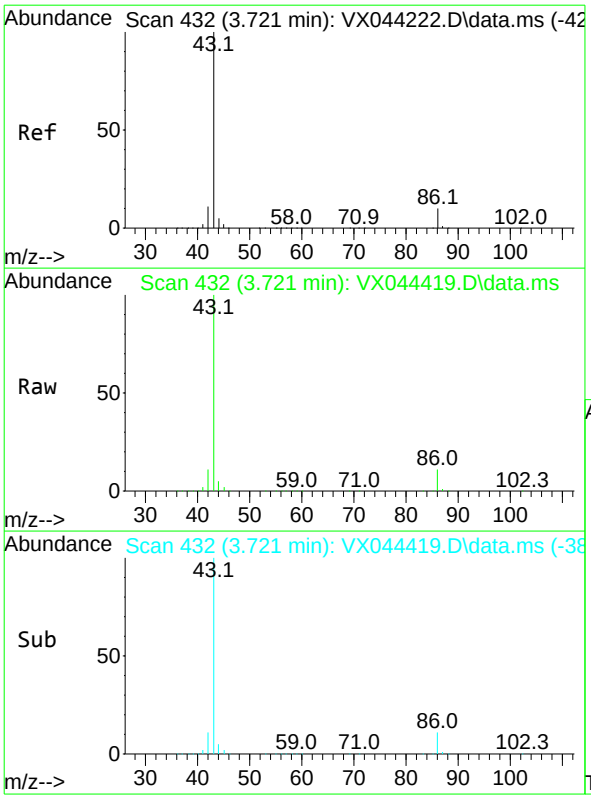


#22
Diisopropyl ether
Concen: 51.065 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 45 Resp: 264037

Ion	Ratio	Lower	Upper
45	100		
43	76.0	60.2	90.2
87	29.4	21.2	31.8
59	12.2	8.9	13.3

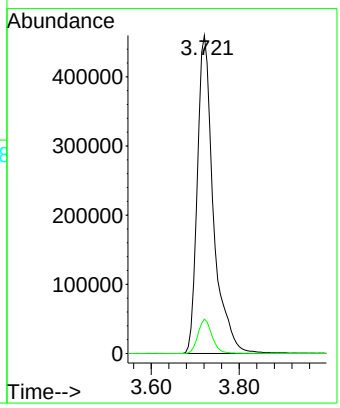




#23
Vinyl Acetate
Concen: 277.841 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 43 Resp: 1167975

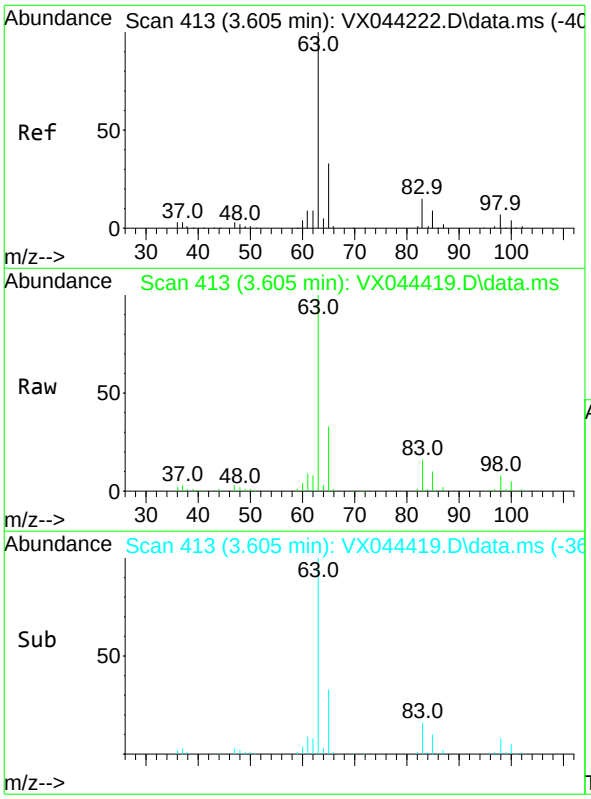
Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

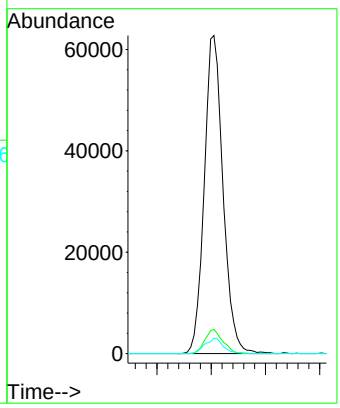
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

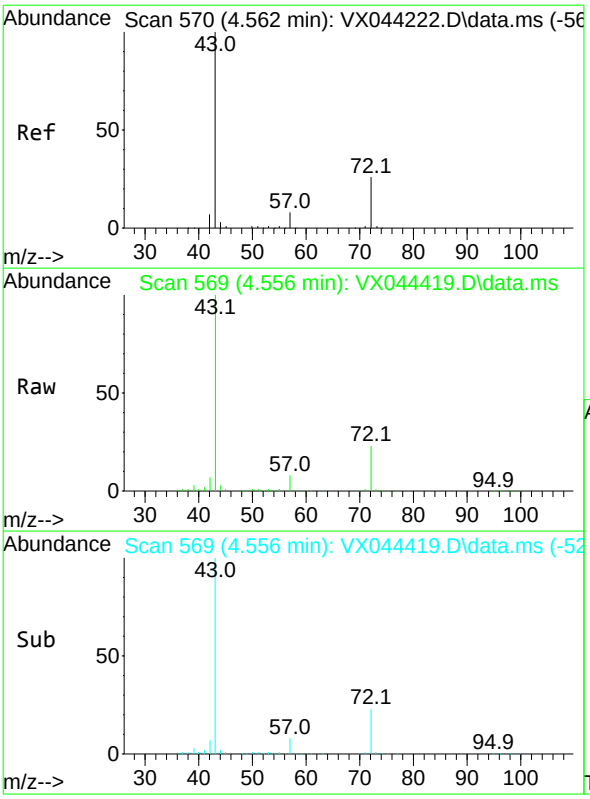


#24
1,1-Dichloroethane
Concen: 52.331 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 63 Resp: 150830

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.6	10.8
100	4.9	2.1	6.3

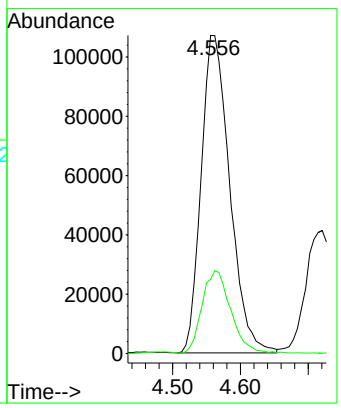




#25
2-Butanone
Concen: 251.145 ug/l
RT: 4.556 min Scan# 56
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 43 Resp: 313889

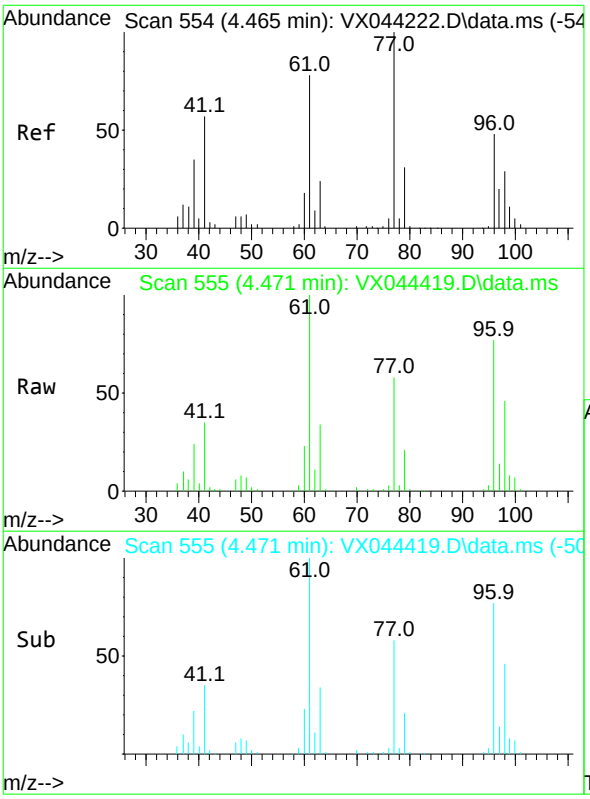
Ion	Ratio	Lower	Upper
43	100		
72	23.1	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

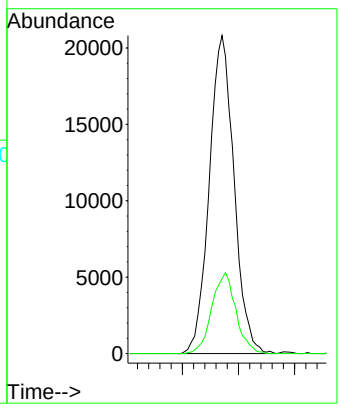
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

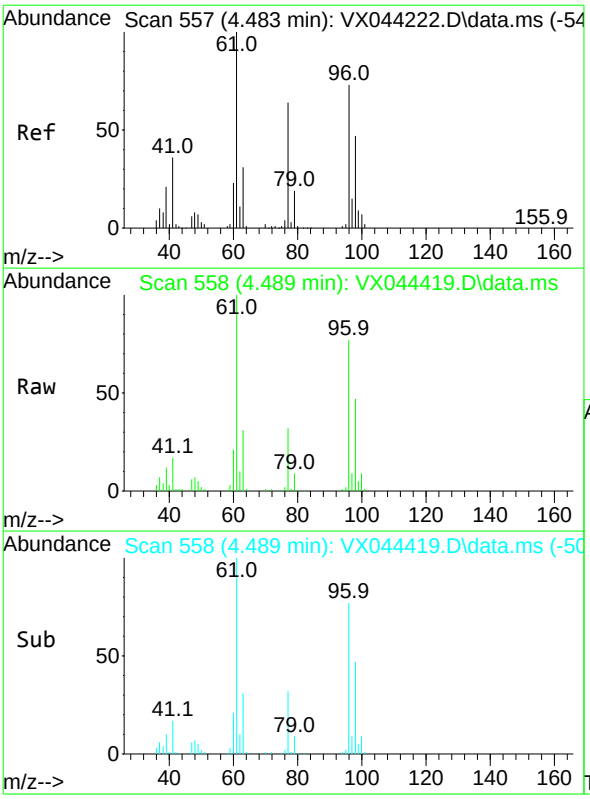


#26
2,2-Dichloropropane
Concen: 27.229 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 77 Resp: 63758

Ion	Ratio	Lower	Upper
77	100		
97	24.7	10.7	32.1





#27
cis-1,2-Dichloroethene
Concen: 49.930 ug/l
RT: 4.489 min Scan# 55
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

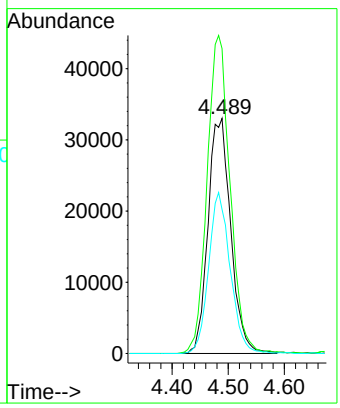
Tgt Ion: 96 Resp: 92907

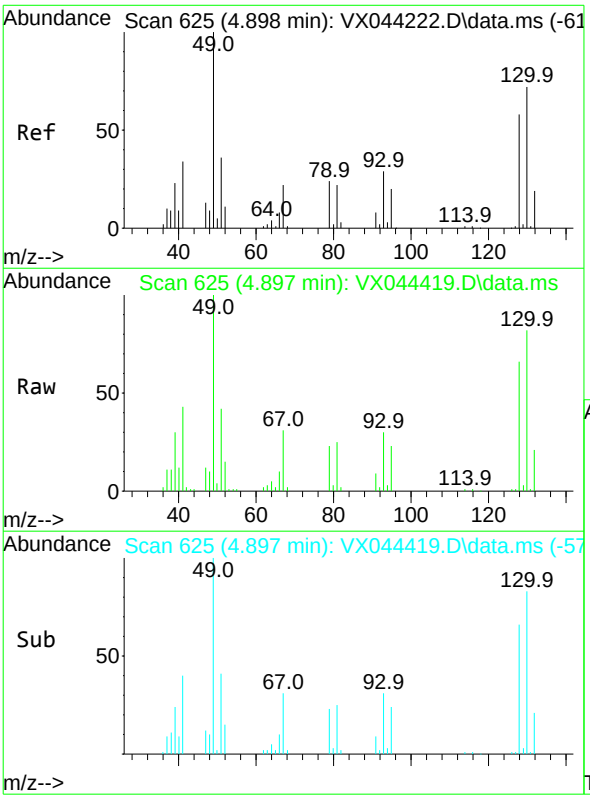
Ion	Ratio	Lower	Upper
96	100		
61	136.6	0.0	299.0
98	65.1	0.0	129.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

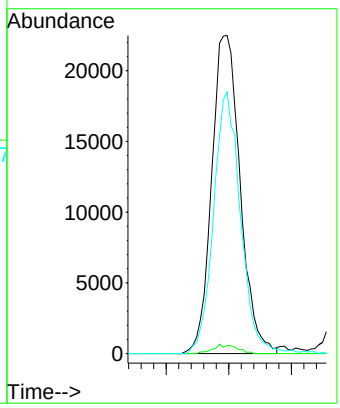


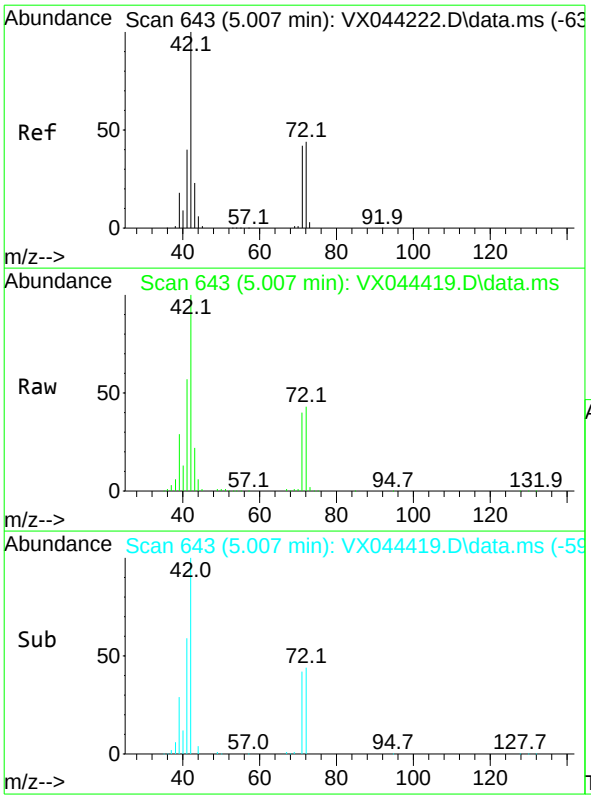


#28
Bromochloromethane
Concen: 50.366 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 49 Resp: 71184

Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	4.2
130	77.9	62.1	93.1





#29
Tetrahydrofuran
Concen: 254.175 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

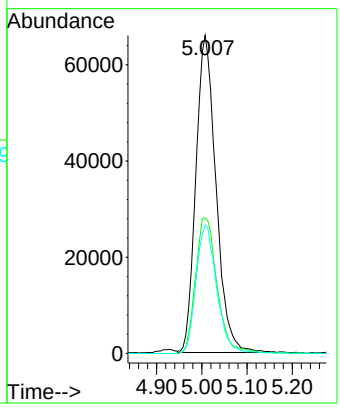
Tgt Ion: 42 Resp: 203906

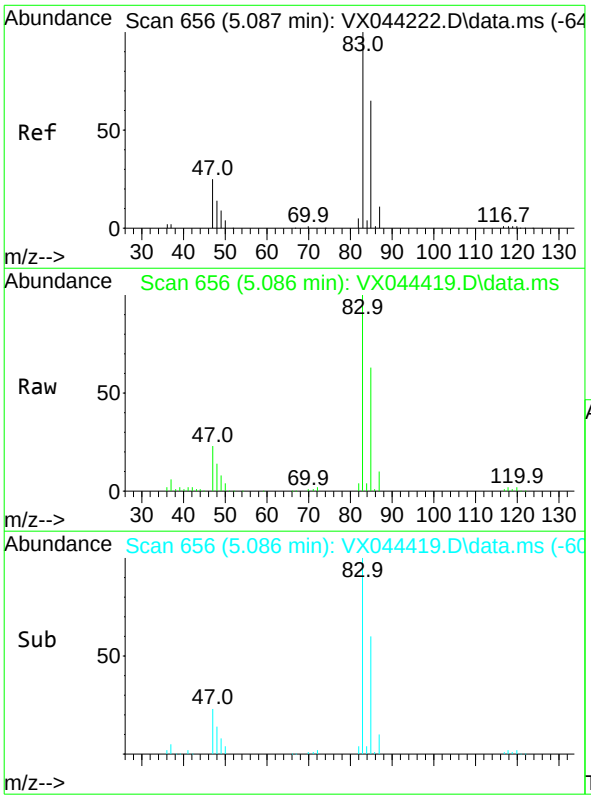
Ion	Ratio	Lower	Upper
42	100		
72	46.0	37.0	55.6
71	41.6	33.6	50.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

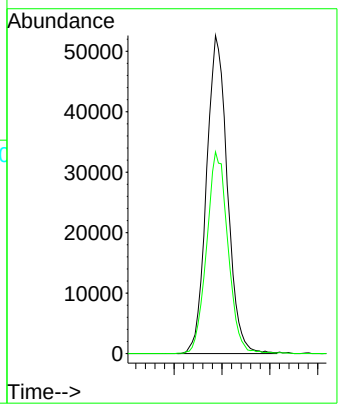


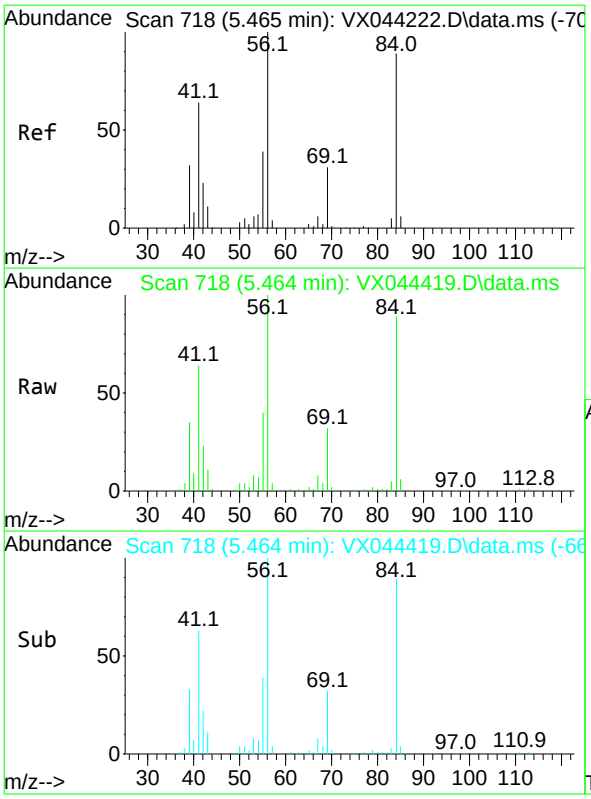


#30
Chloroform
Concen: 49.178 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 83 Resp: 159252

Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.6	77.4





#31
Cyclohexane
Concen: 42.827 ug/l
RT: 5.464 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

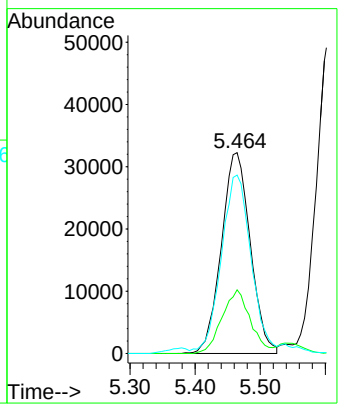
Tgt Ion: 56 Resp: 99678

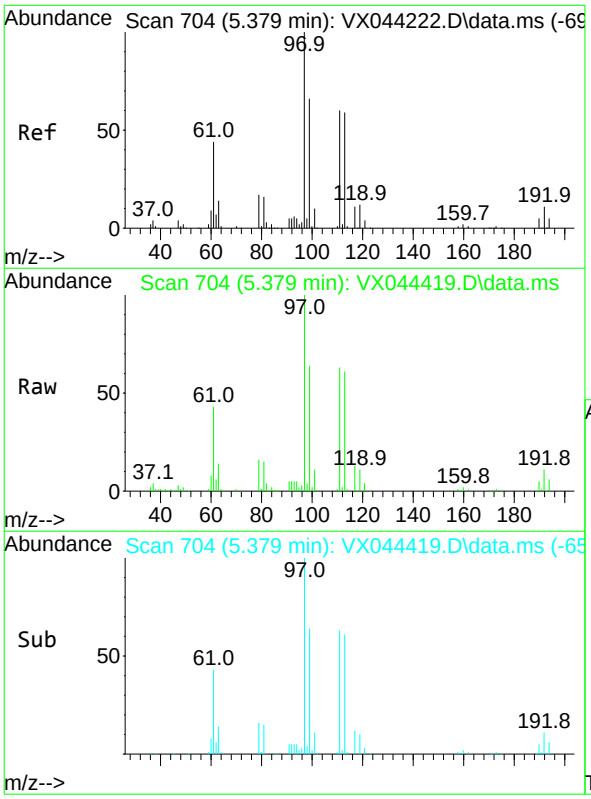
Ion	Ratio	Lower	Upper
56	100		
69	31.7	24.7	37.1
84	86.4	71.0	106.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

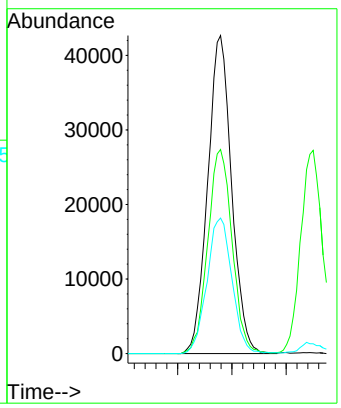


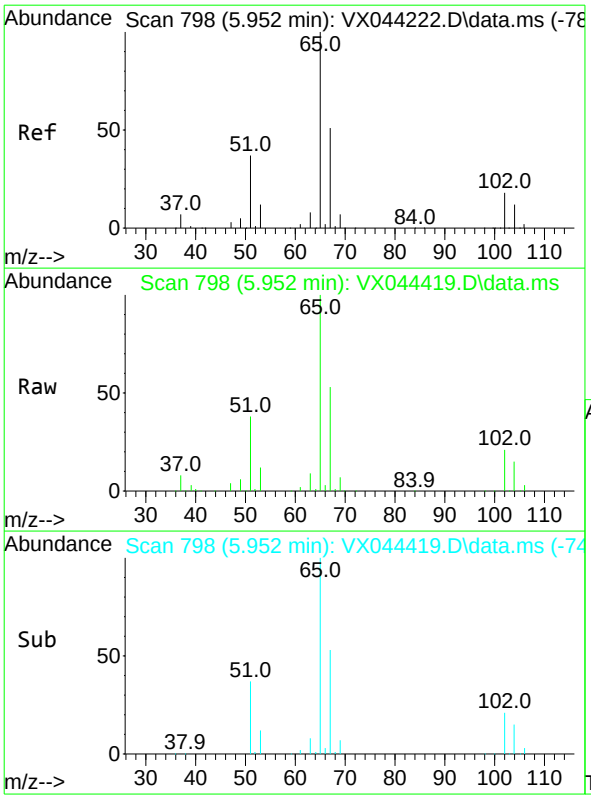


#32
1,1,1-Trichloroethane
Concen: 48.640 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 97 Resp: 130746

Ion	Ratio	Lower	Upper
97	100		
99	65.3	50.8	76.2
61	44.6	35.2	52.8





#33
1,2-Dichloroethane-d4
Concen: 48.341 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

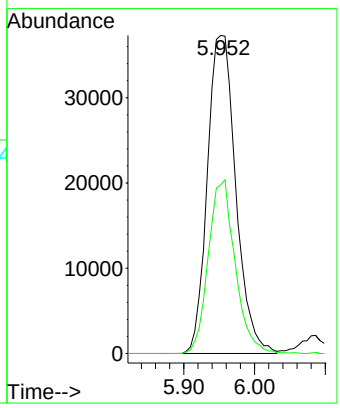
Tgt Ion: 65 Resp: 104245

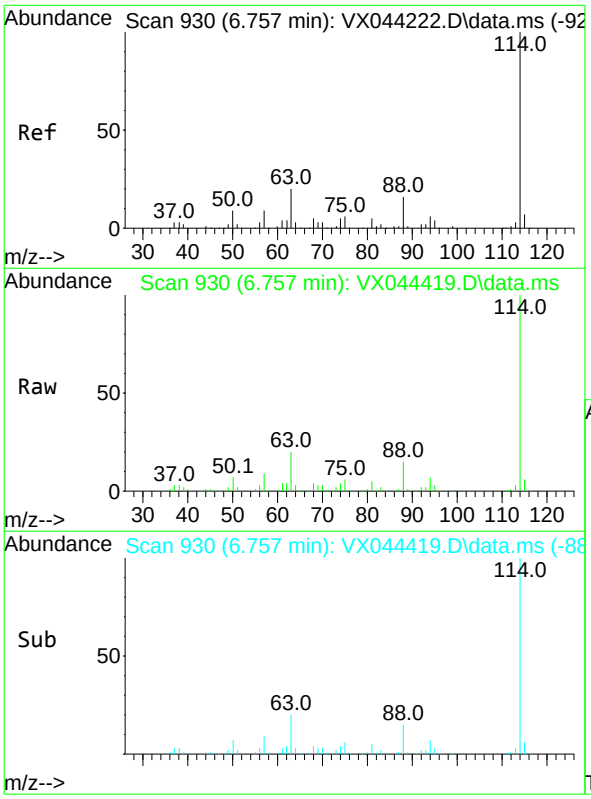
Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	101.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

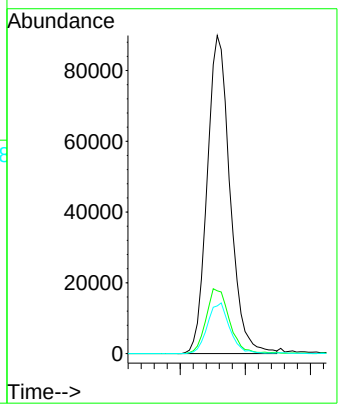


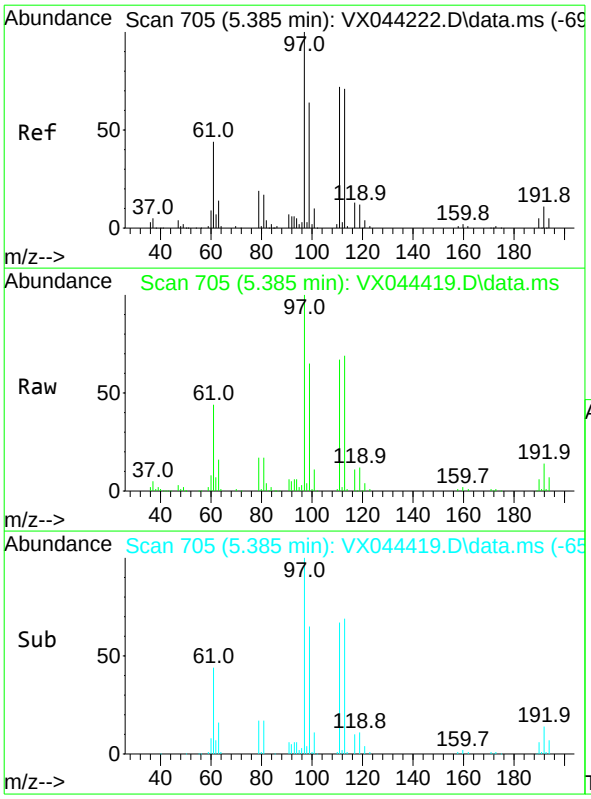


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:114 Resp: 219241

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	40.6
88	15.0	0.0	31.8





#35
Dibromofluoromethane
Concen: 52.285 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

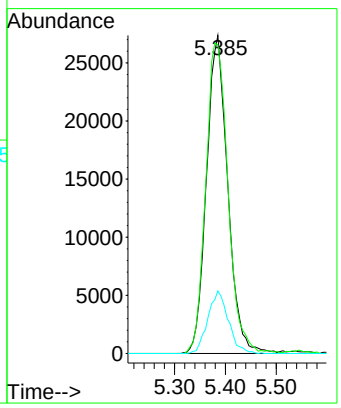
Tgt Ion:113 Resp: 79392

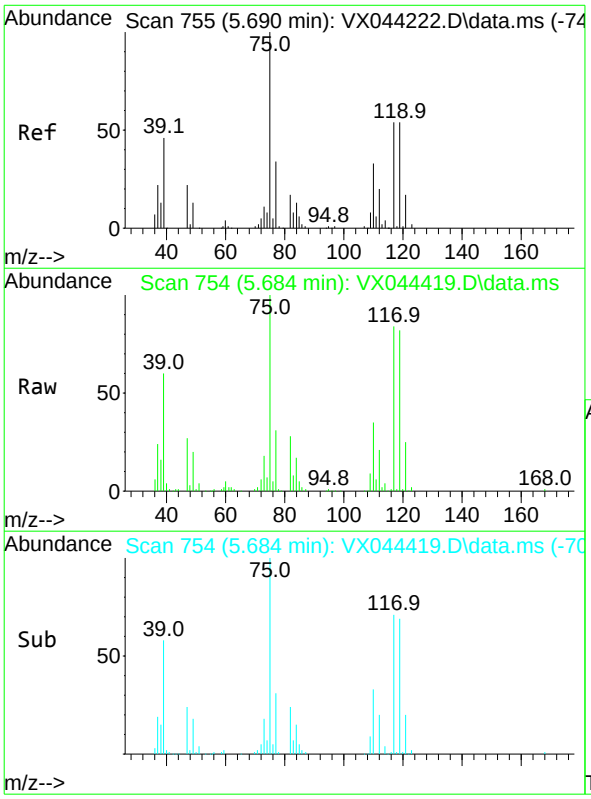
Ion	Ratio	Lower	Upper
113	100		
111	102.6	80.4	120.6
192	19.0	13.3	19.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

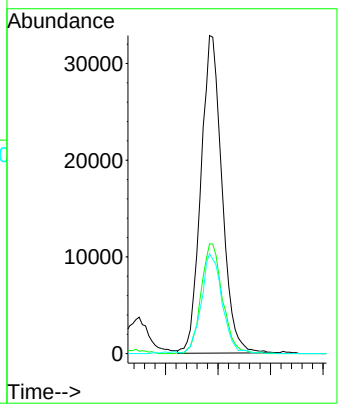


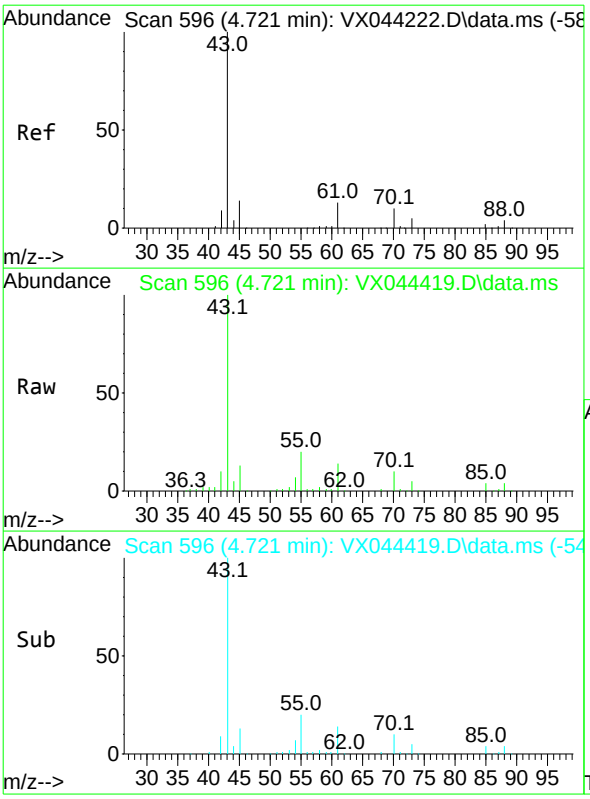


#36
1,1-Dichloropropene
Concen: 46.748 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 75 Resp: 91756

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.3	51.7
77	30.6	25.4	38.0





#37
Ethyl Acetate
Concen: 52.248 ug/l
RT: 4.721 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

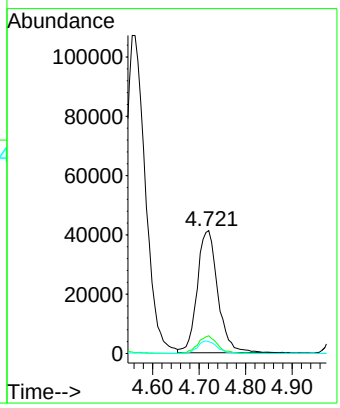
Tgt Ion: 43 Resp: 126767

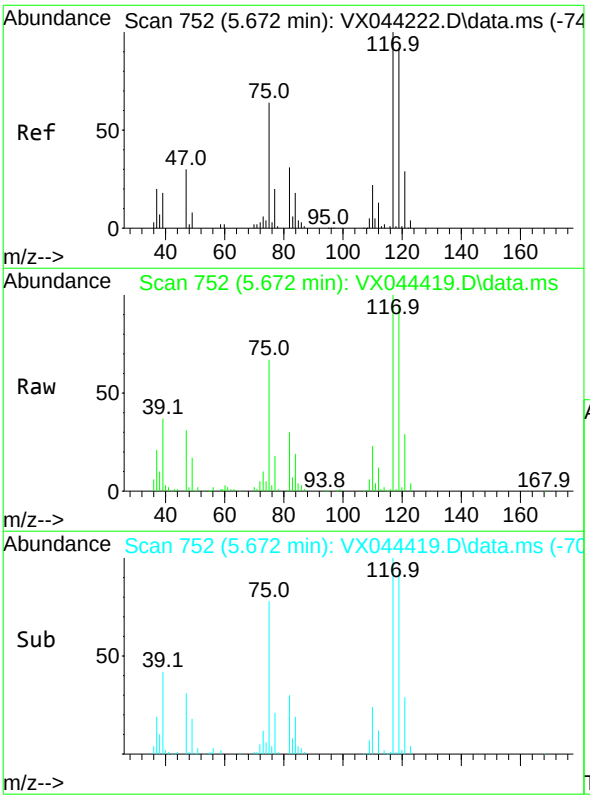
Ion	Ratio	Lower	Upper
43	100		
61	13.4	9.8	14.8
70	9.7	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

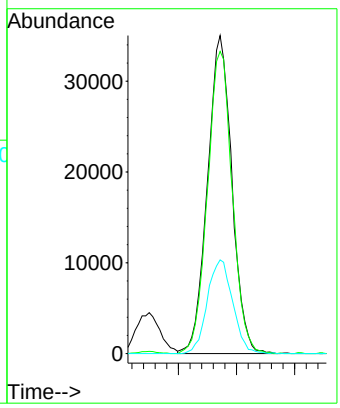


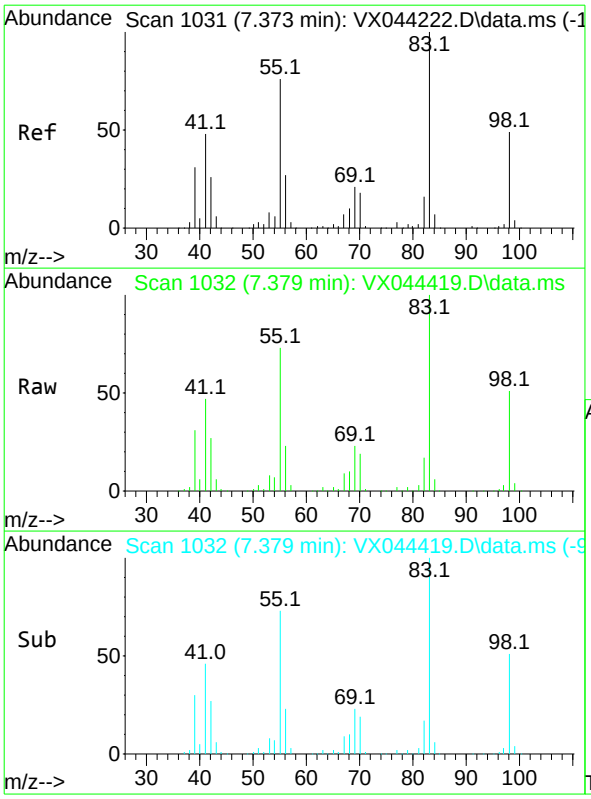


#38
Carbon Tetrachloride
Concen: 48.416 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:117 Resp: 102311

Ion	Ratio	Lower	Upper
117	100		
119	95.0	74.2	111.4
121	29.5	23.0	34.6

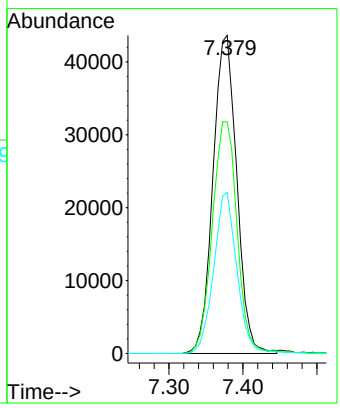




#39
Methylcyclohexane
Concen: 41.546 ug/l
RT: 7.379 min Scan# 10
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 83 Resp: 97486

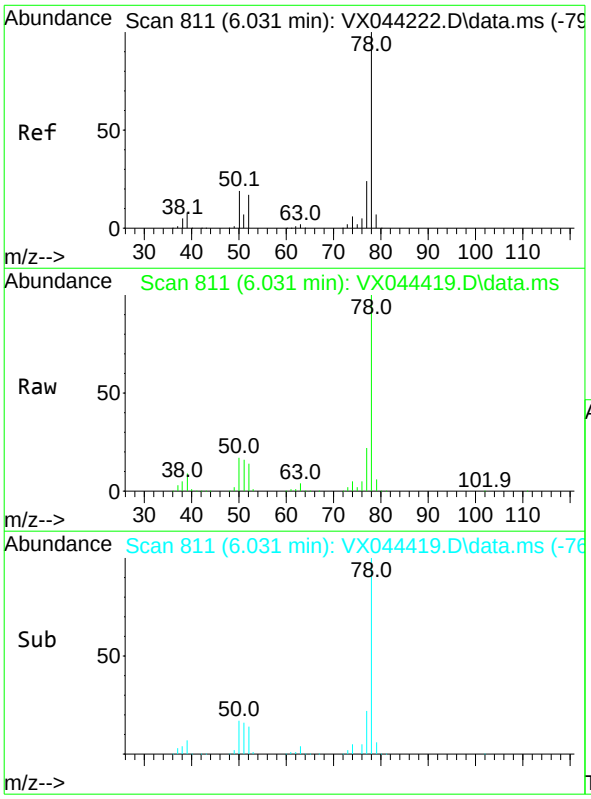
Ion	Ratio	Lower	Upper
83	100		
55	72.8	60.7	91.1
98	50.6	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

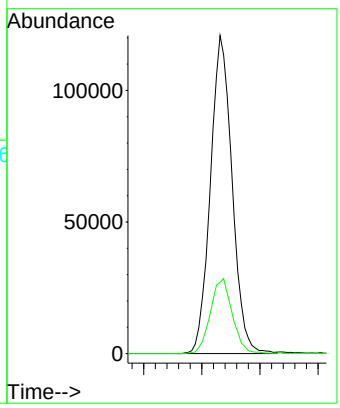
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

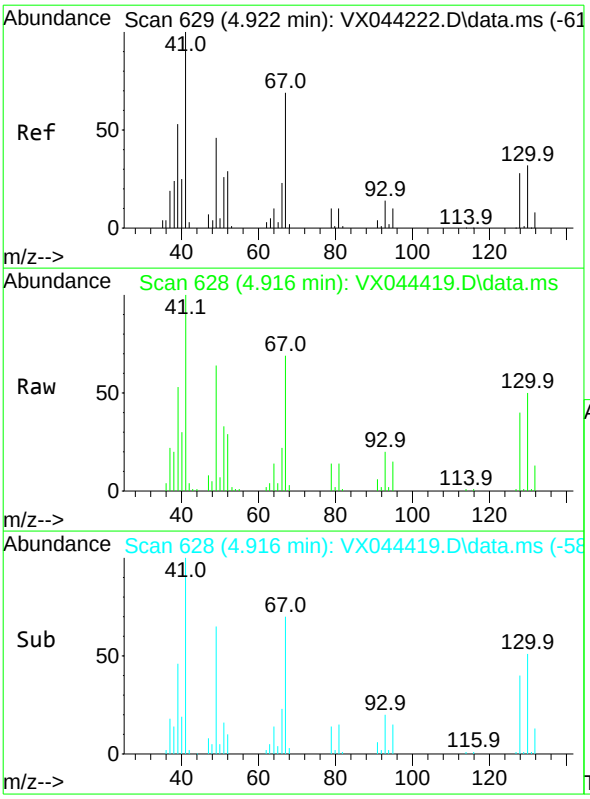


#40
Benzene
Concen: 52.556 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 78 Resp: 313202

Ion	Ratio	Lower	Upper
78	100		
77	22.4	19.3	28.9





#41
Methacrylonitrile
Concen: 53.276 ug/l
RT: 4.916 min Scan# 62
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

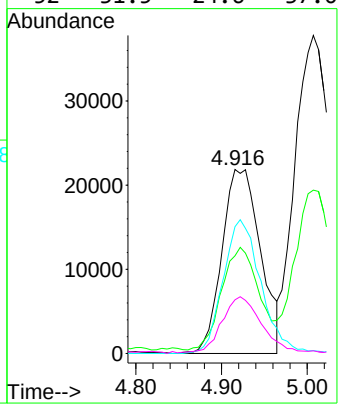
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

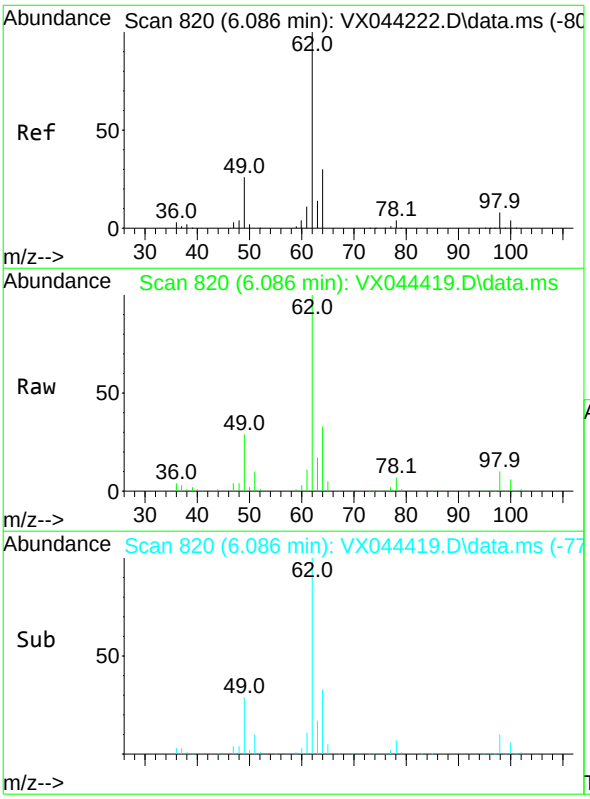
Tgt Ion: 41 Resp: 68638

Ion	Ratio	Lower	Upper
41	100		
39	52.9	44.2	66.4
67	71.0	57.2	85.8
52	31.5	24.6	37.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

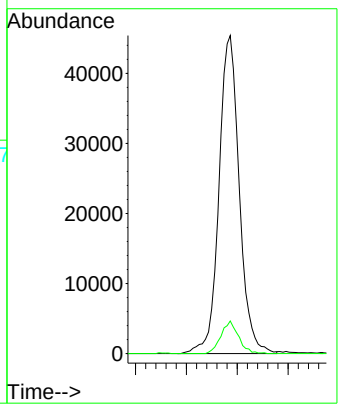


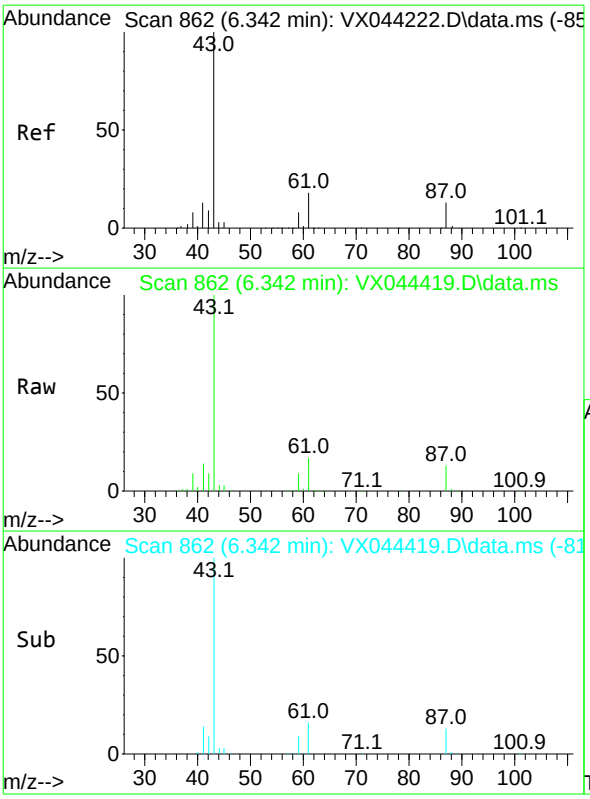


#42
1,2-Dichloroethane
Concen: 51.349 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 62 Resp: 126056

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	15.8





#43
Isopropyl Acetate
Concen: 53.759 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

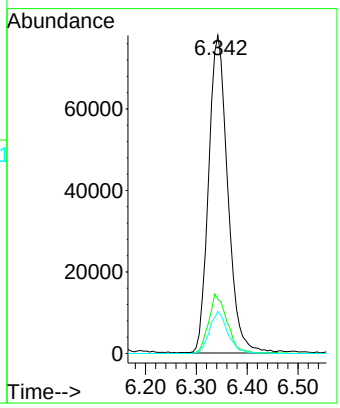
Tgt Ion: 43 Resp: 203865

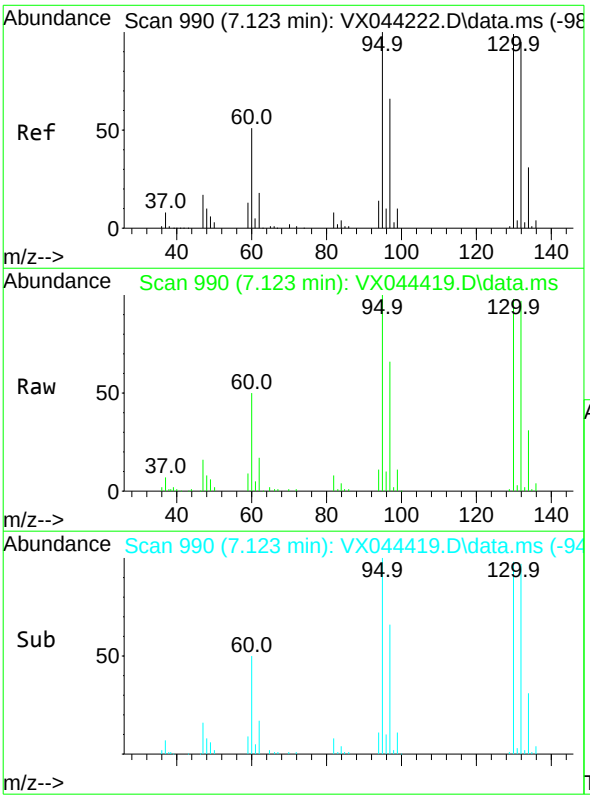
Ion	Ratio	Lower	Upper
43	100		
61	18.1	14.2	21.2
87	12.6	10.2	15.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

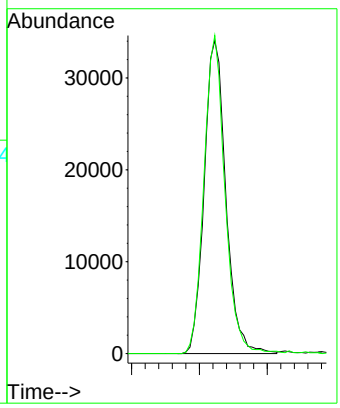


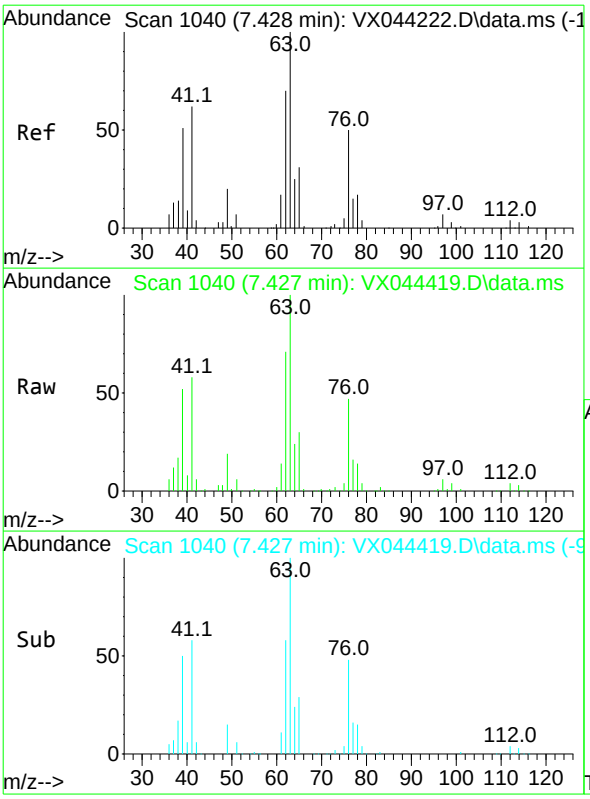


#44
Trichloroethene
Concen: 50.868 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:130 Resp: 75596

Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	201.4





#45
1,2-Dichloropropane
Concen: 52.553 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

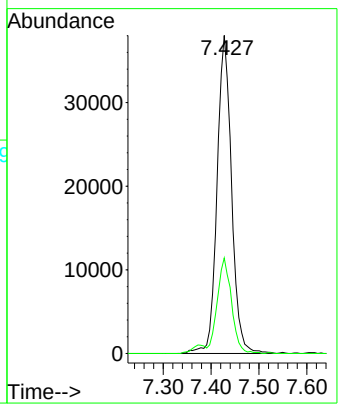
Tgt Ion: 63 Resp: 80013

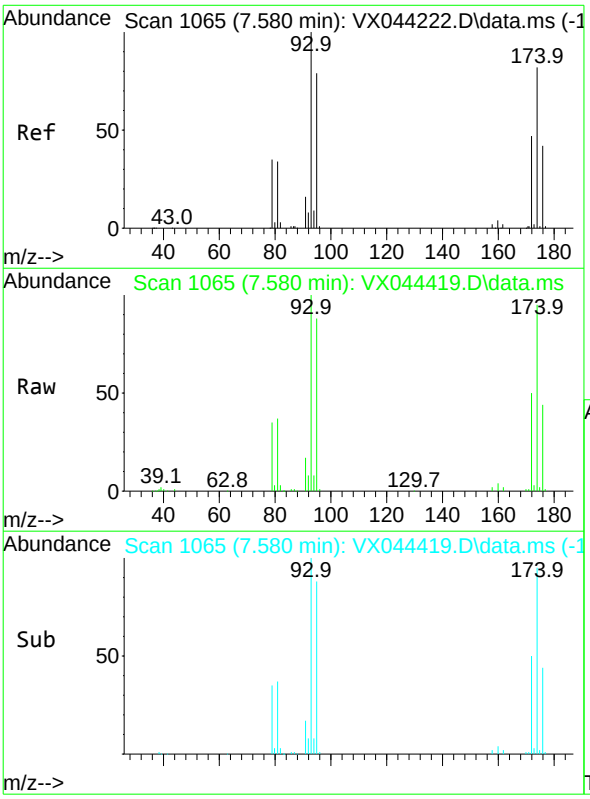
Ion	Ratio	Lower	Upper
63	100		
65	30.0	24.6	37.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

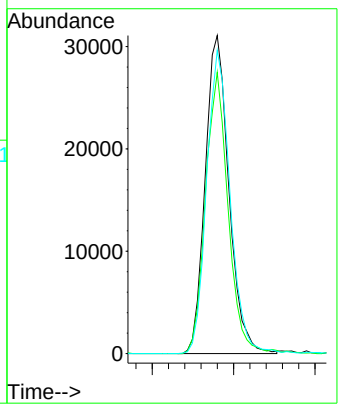


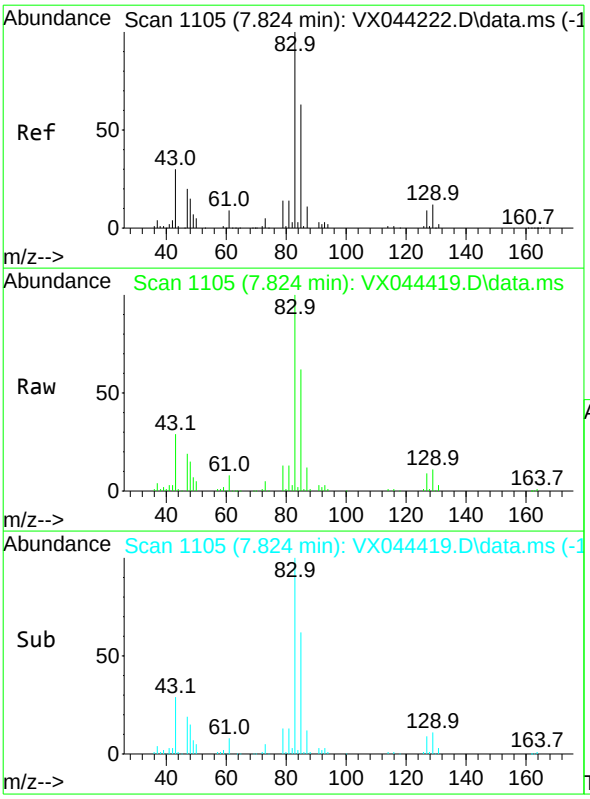


#46
Dibromomethane
Concen: 53.185 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 93 Resp: 62821

Ion	Ratio	Lower	Upper
93	100		
95	84.7	65.4	98.2
174	94.7	67.9	101.9

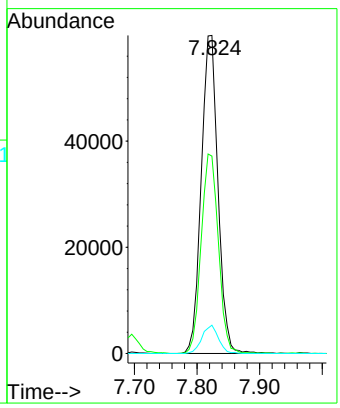




#47
Bromodichloromethane
Concen: 54.439 ug/l
RT: 7.824 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 83 Resp: 111053

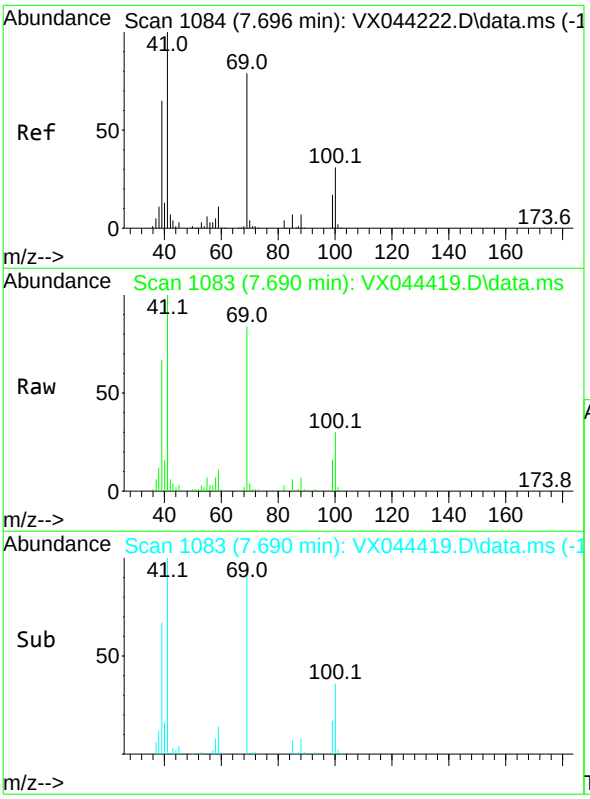
Ion	Ratio	Lower	Upper
83	100		
85	62.1	50.6	75.8
127	8.9	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

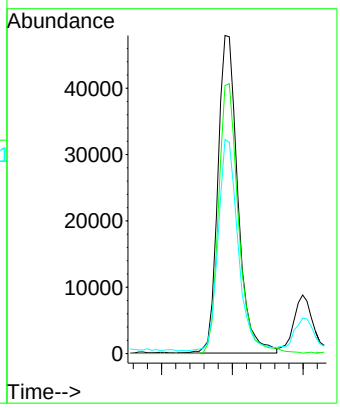
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

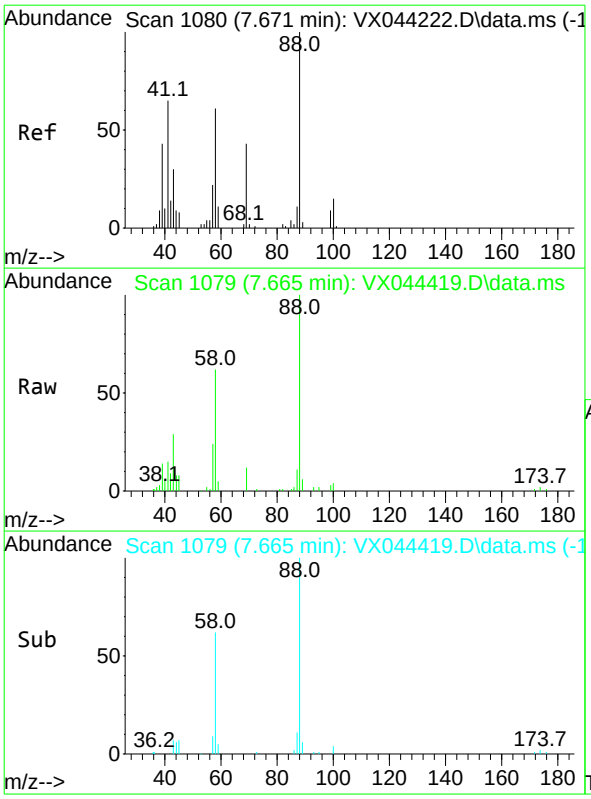


#48
Methyl methacrylate
Concen: 50.984 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 41 Resp: 93853

Ion	Ratio	Lower	Upper
41	100		
69	84.8	62.4	93.6
39	65.7	53.3	79.9





#49
1,4-Dioxane
Concen: 927.969 ug/l
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

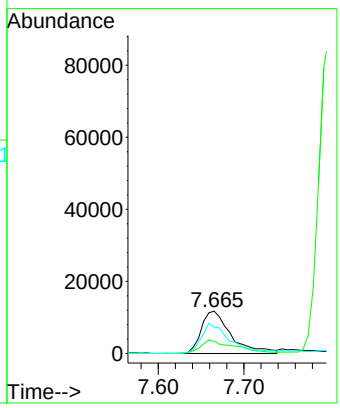
Tgt Ion: 88 Resp: 28322

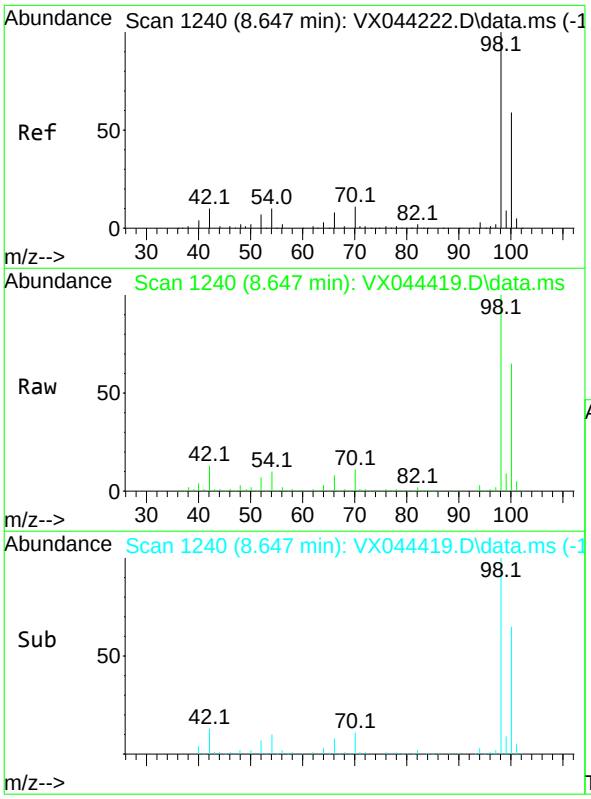
Ion	Ratio	Lower	Upper
88	100		
43	37.9	27.1	40.7
58	65.7	41.0	61.4#

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

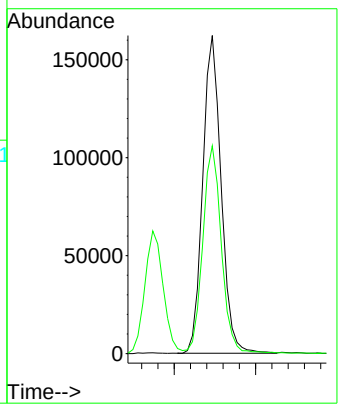


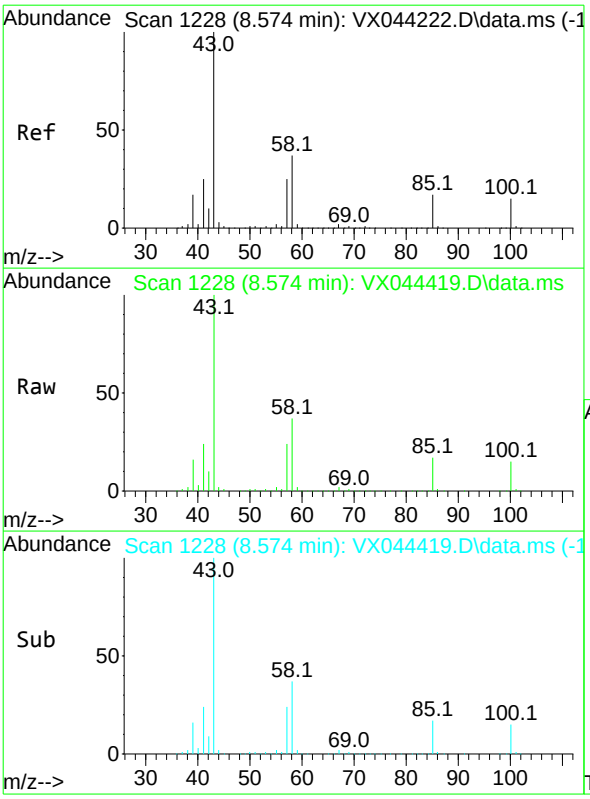


#50
Toluene-d8
Concen: 49.641 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 98 Resp: 254301

Ion	Ratio	Lower	Upper
98	100		
100	65.9	51.5	77.3

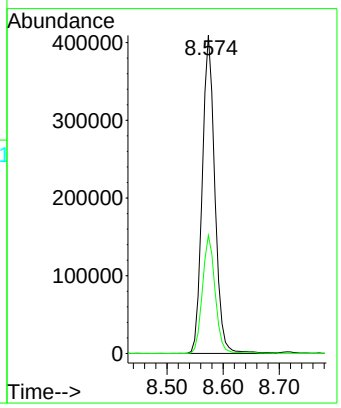




#51
4-Methyl-2-Pentanone
Concen: 261.345 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 43 Resp: 637240

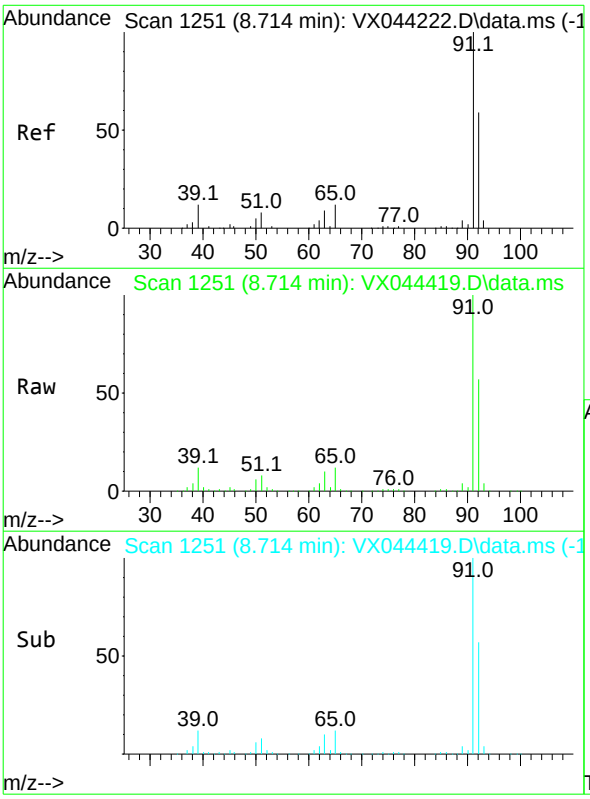
Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

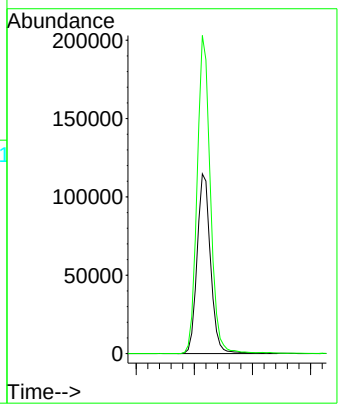
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

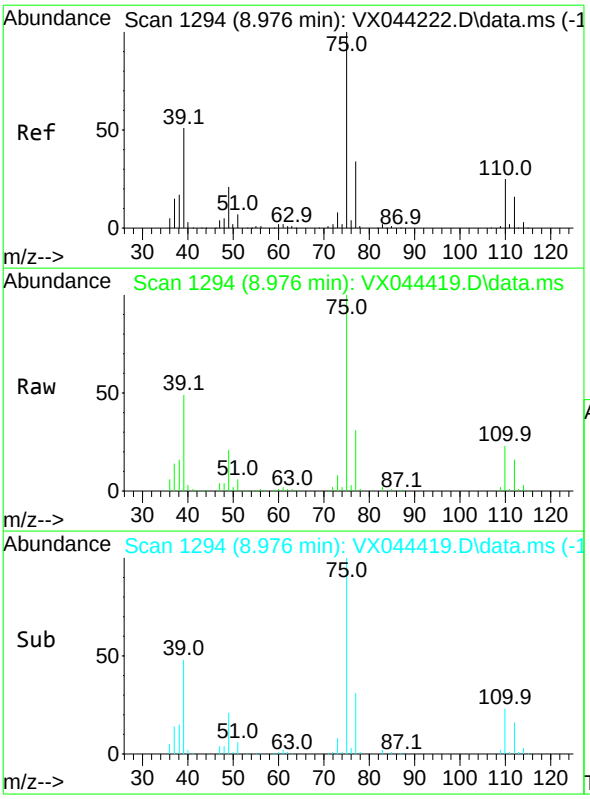


#52
Toluene
Concen: 49.148 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 92 Resp: 183930

Ion	Ratio	Lower	Upper
92	100		
91	173.8	137.0	205.6

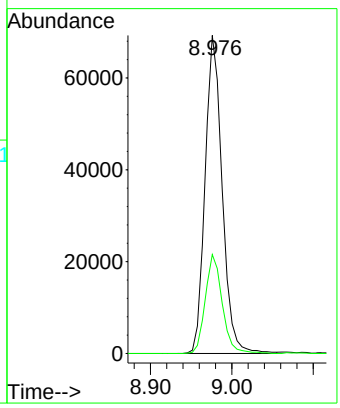




#53
t-1,3-Dichloropropene
Concen: 46.368 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 75 Resp: 100994

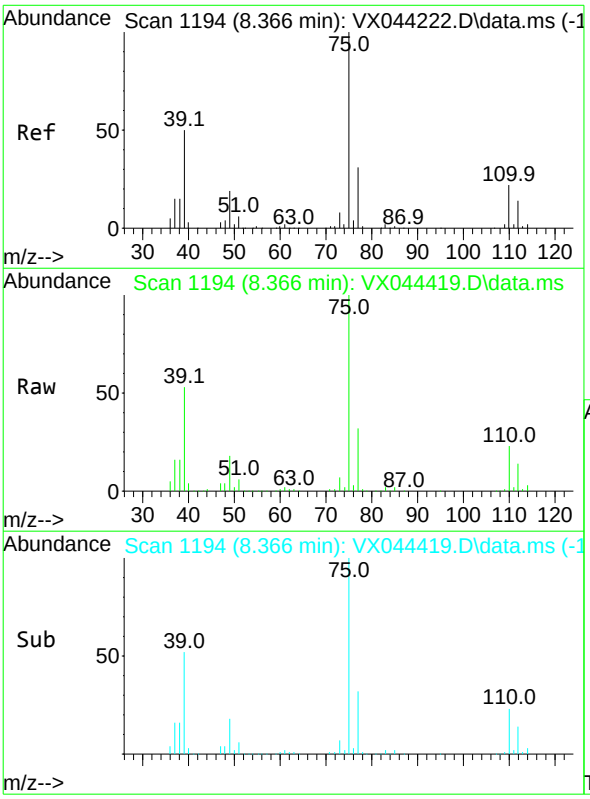
Ion	Ratio	Lower	Upper
75	100		
77	31.1	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

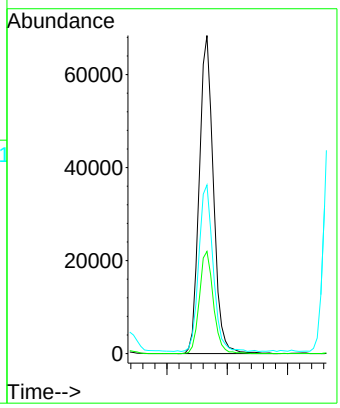
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

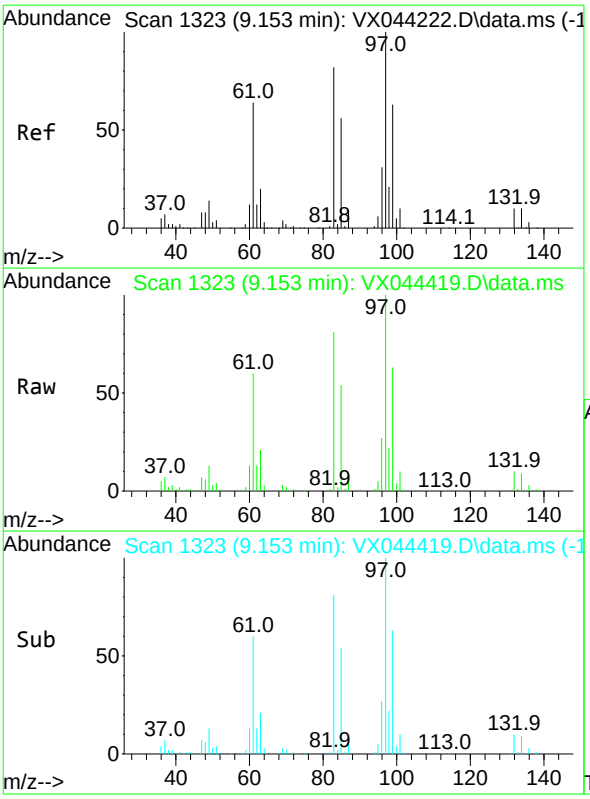


#54
cis-1,3-Dichloropropene
Concen: 50.228 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 75 Resp: 111565

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.7	37.1
39	52.3	40.3	60.5

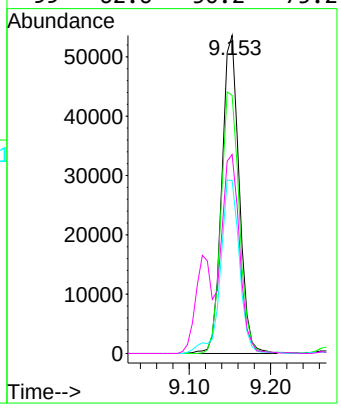




#55
1,1,2-Trichloroethane
Concen: 53.407 ug/l
RT: 9.153 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 97 Resp: 79401

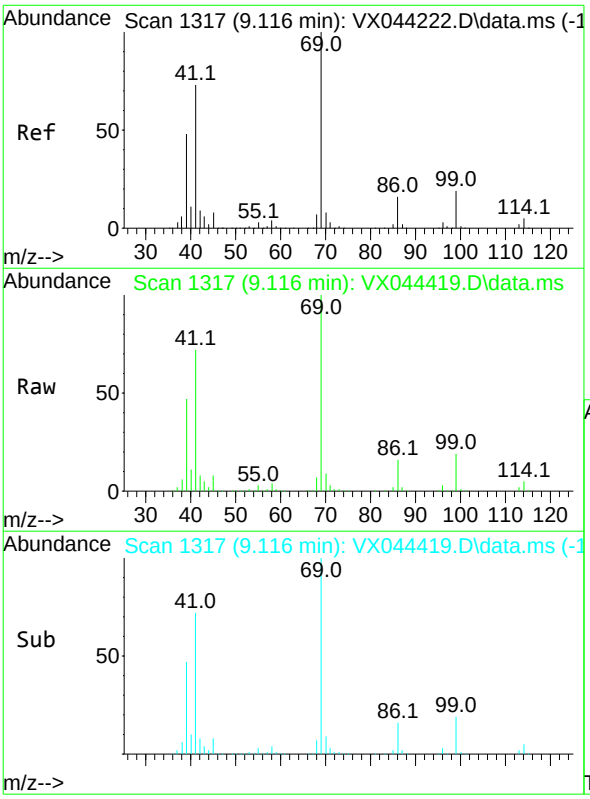
Ion	Ratio	Lower	Upper
97	100		
83	81.2	65.3	97.9
85	54.4	44.6	67.0
99	62.6	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

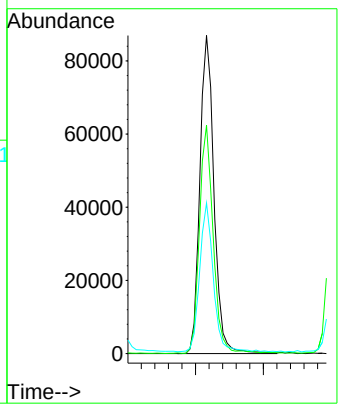
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

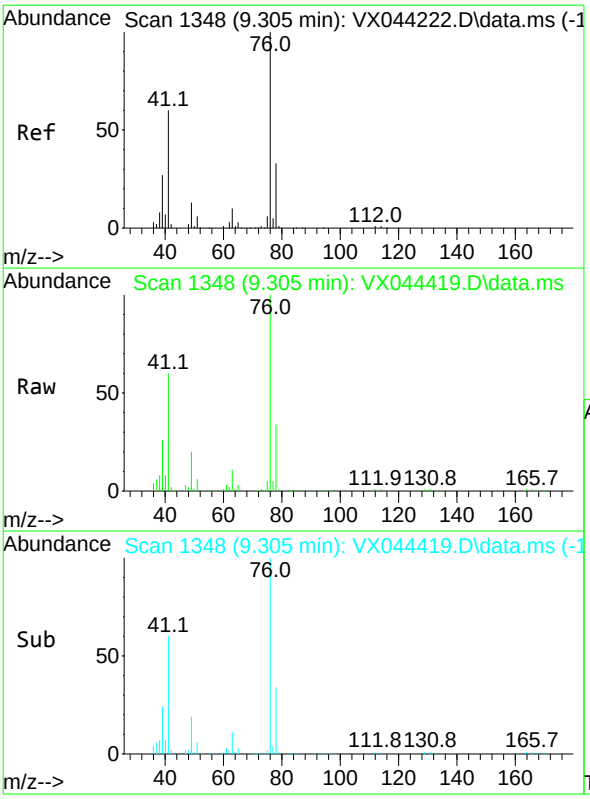


#56
Ethyl methacrylate
Concen: 53.432 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 69 Resp: 125407

Ion	Ratio	Lower	Upper
69	100		
41	69.9	56.6	85.0
39	45.7	37.4	56.0

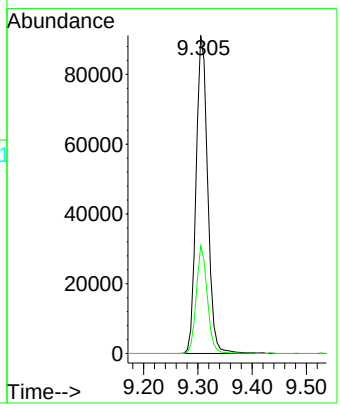




#57
1,3-Dichloropropane
Concen: 52.210 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 76 Resp: 135107

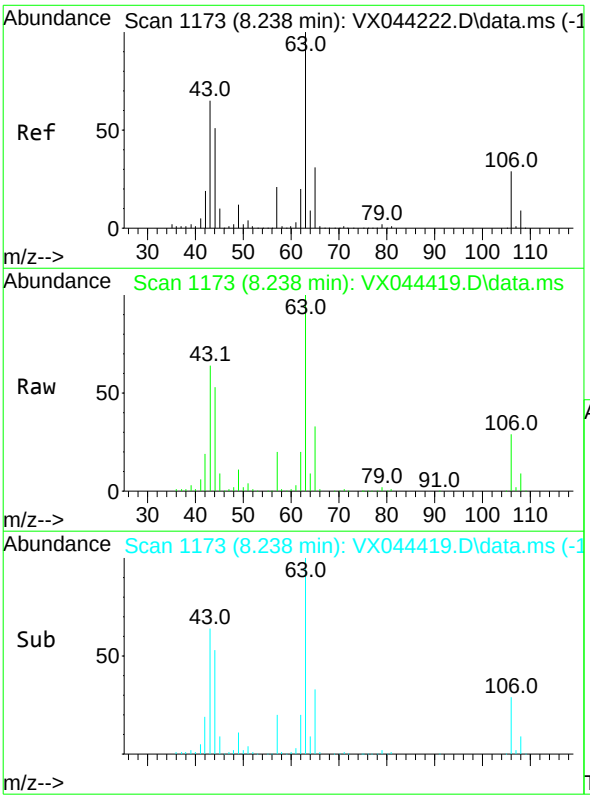
Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

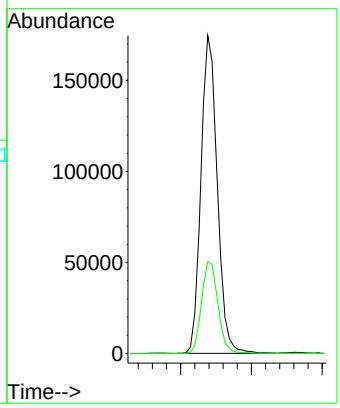
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

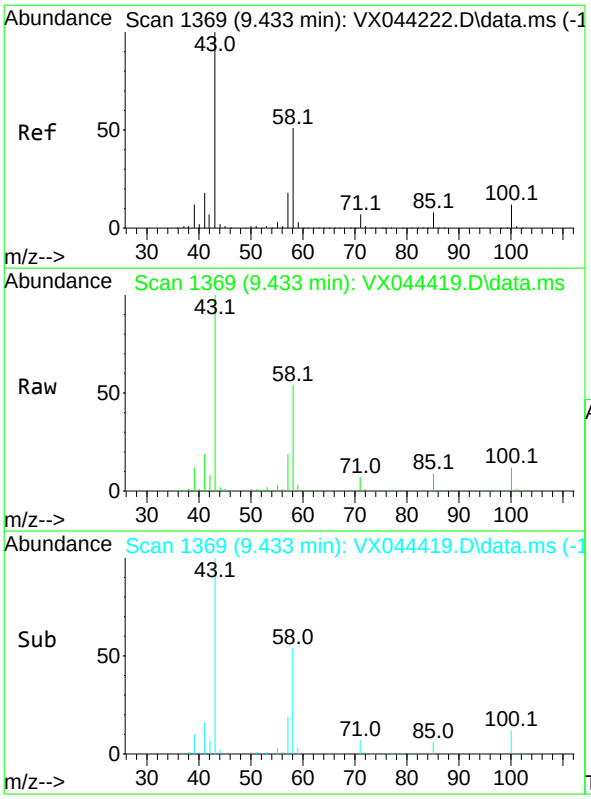


#58
2-Chloroethyl Vinyl ether
Concen: 235.938 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 63 Resp: 279300

Ion	Ratio	Lower	Upper
63	100		
106	29.3	22.8	34.2

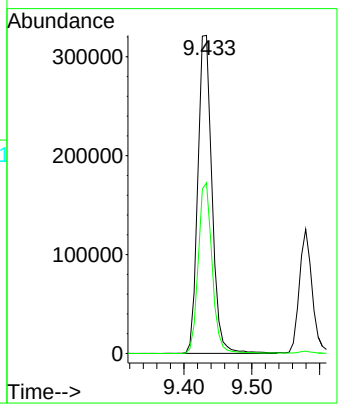




#59
2-Hexanone
Concen: 263.434 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 43 Resp: 464936

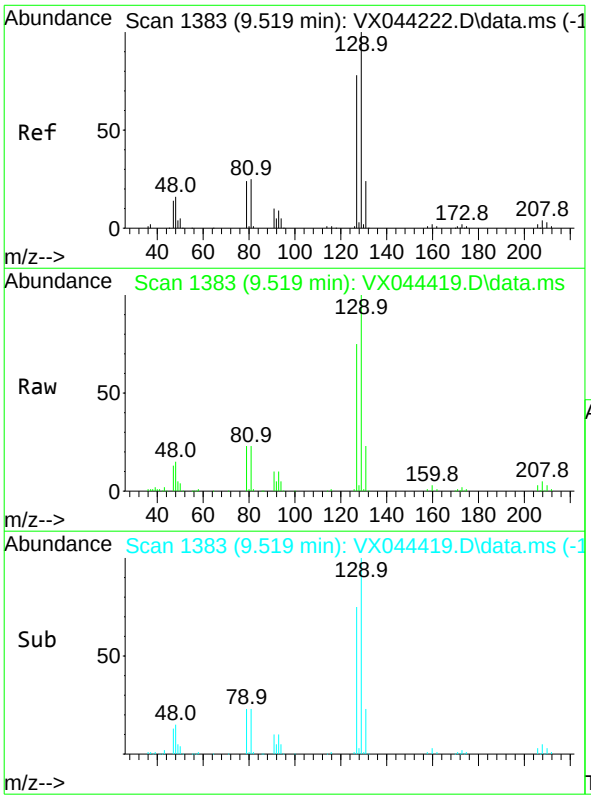
Ion	Ratio	Lower	Upper
43	100		
58	52.7	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

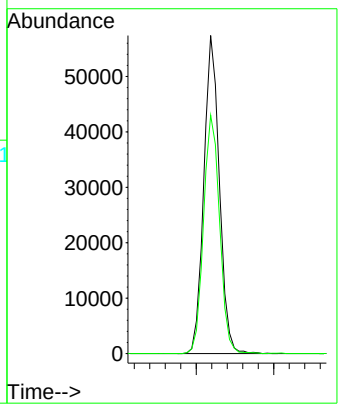
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

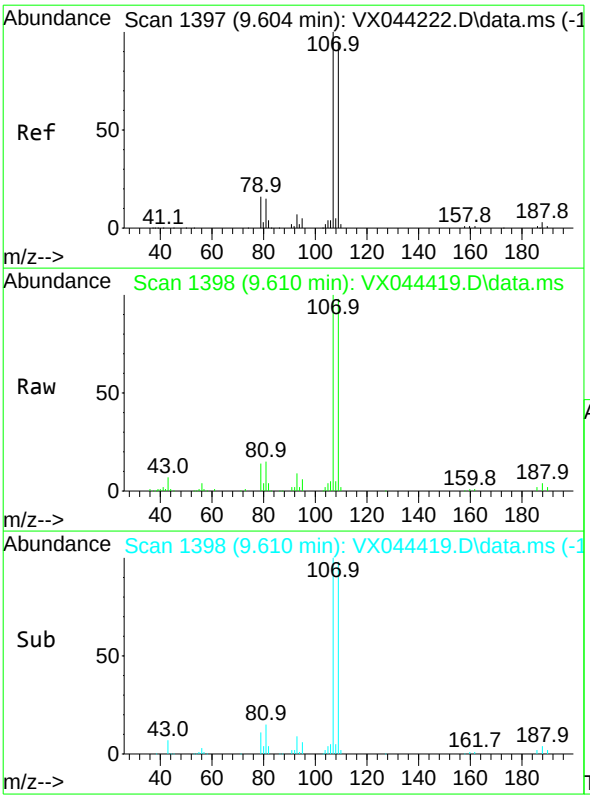


#60
Dibromochloromethane
Concen: 50.717 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:129 Resp: 79931

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.3

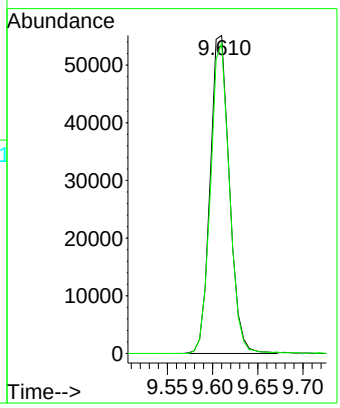




#61
1,2-Dibromoethane
Concen: 54.026 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:107 Resp: 81759

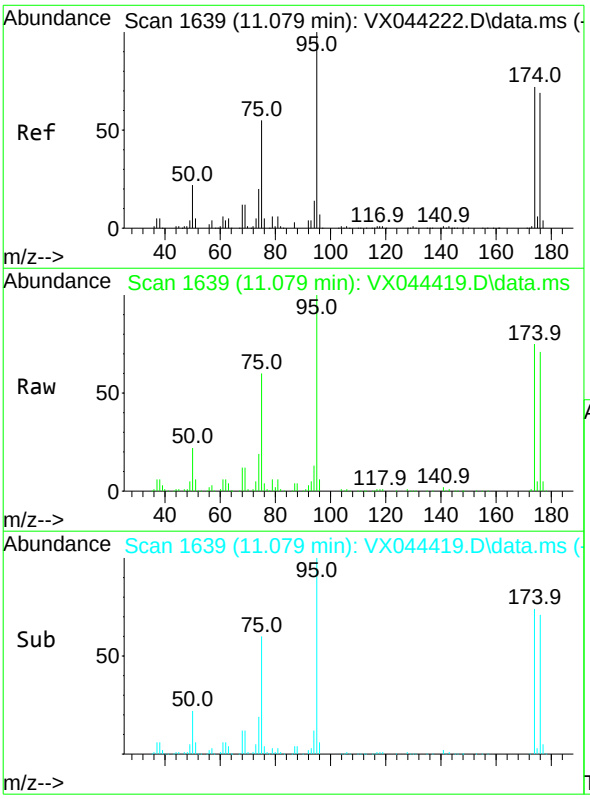
Ion	Ratio	Lower	Upper
107	100		
109	96.1	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

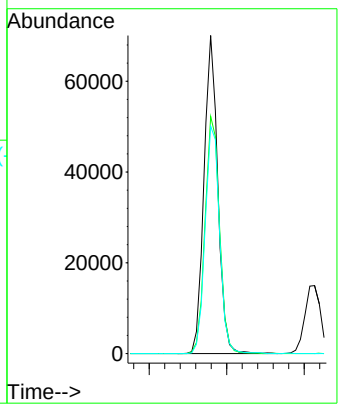
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

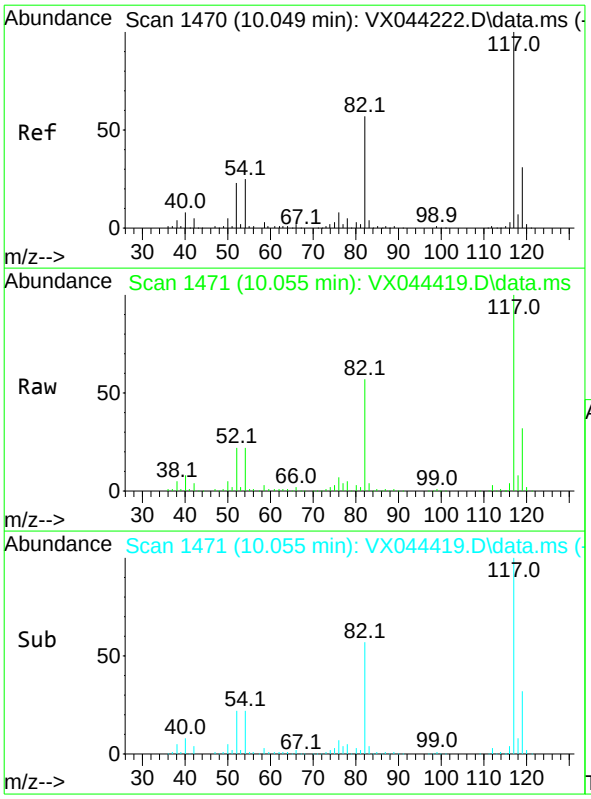


#62
4-Bromofluorobenzene
Concen: 48.509 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 95 Resp: 86833

Ion	Ratio	Lower	Upper
95	100		
174	78.0	0.0	145.8
176	74.8	0.0	137.8

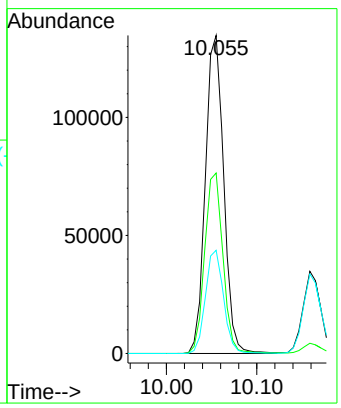




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:117 Resp: 189779

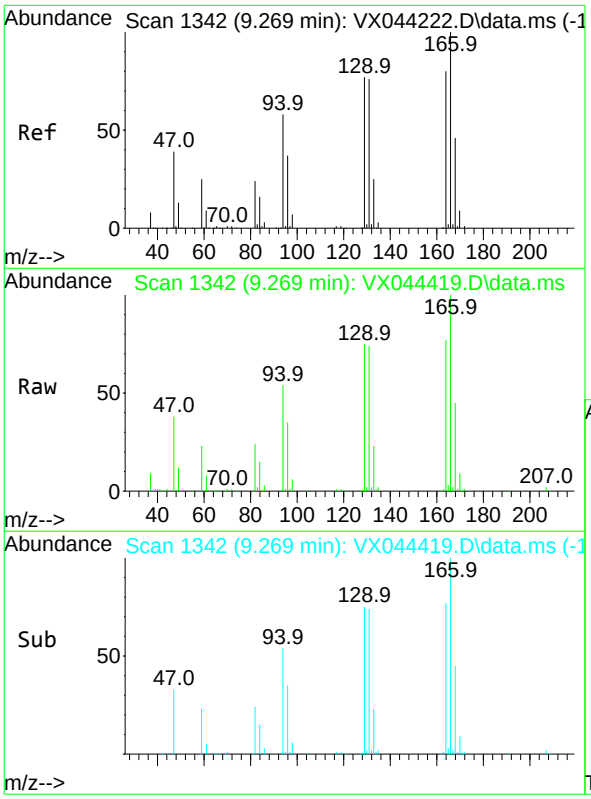
Ion	Ratio	Lower	Upper
117	100		
82	56.7	45.8	68.8
119	32.5	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

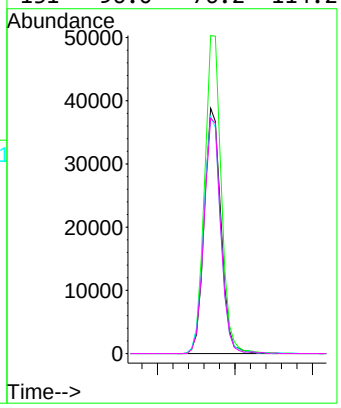
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

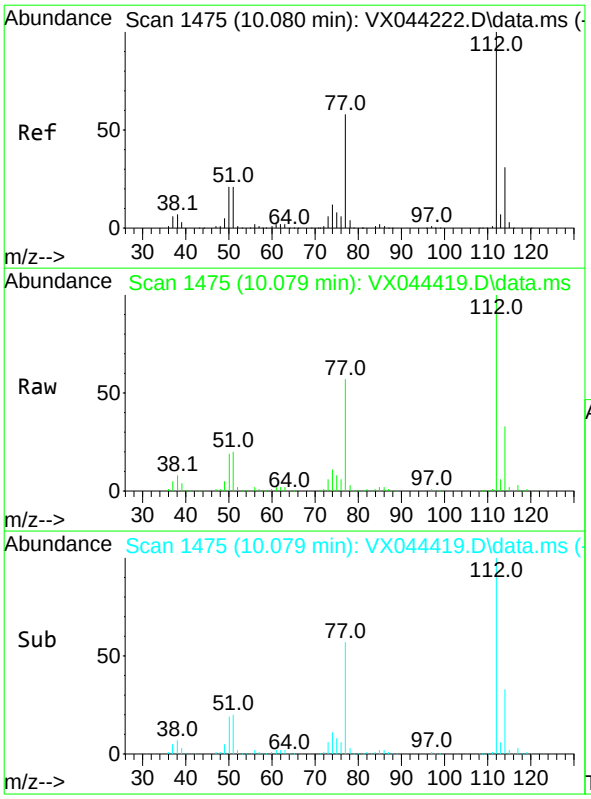


#64
Tetrachloroethene
Concen: 46.221 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:164 Resp: 58220

Ion	Ratio	Lower	Upper
164	100		
166	129.7	100.4	150.6
129	96.7	77.2	115.8
131	96.0	76.2	114.2

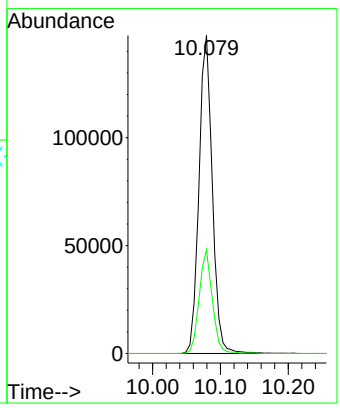




#65
Chlorobenzene
Concen: 49.379 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:112 Resp: 200803

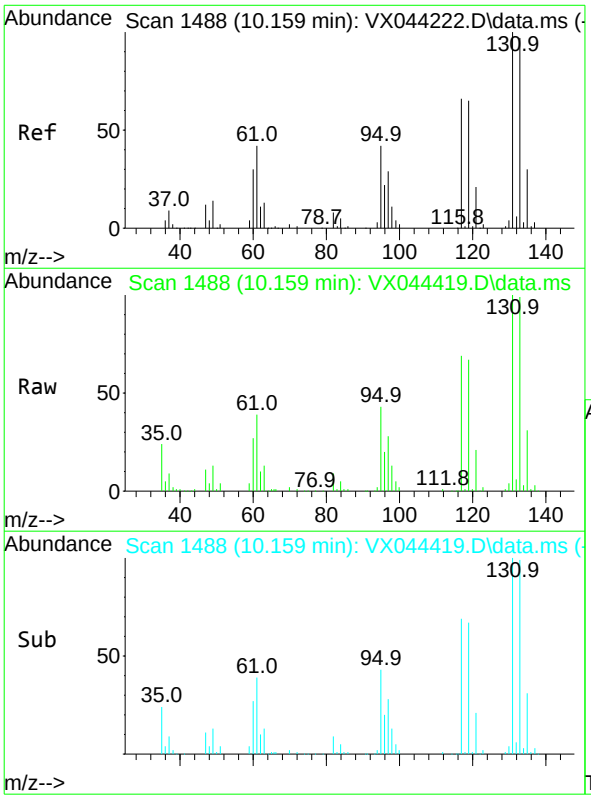
Ion	Ratio	Lower	Upper
112	100		
114	32.7	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

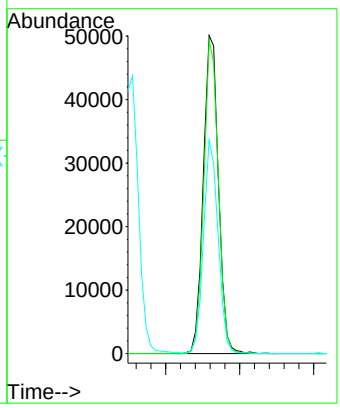
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

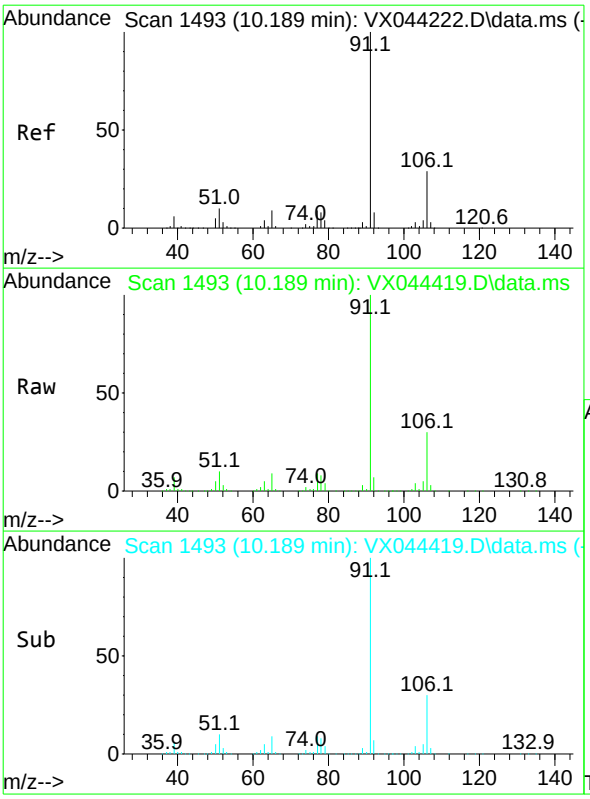


#66
1,1,1,2-Tetrachloroethane
Concen: 54.398 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:131 Resp: 71094

Ion	Ratio	Lower	Upper
131	100		
133	94.3	47.3	141.8
119	64.9	31.6	95.0





#67
Ethyl Benzene
Concen: 48.644 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

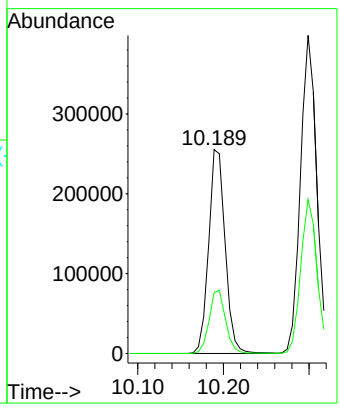
Tgt Ion: 91 Resp: 341788

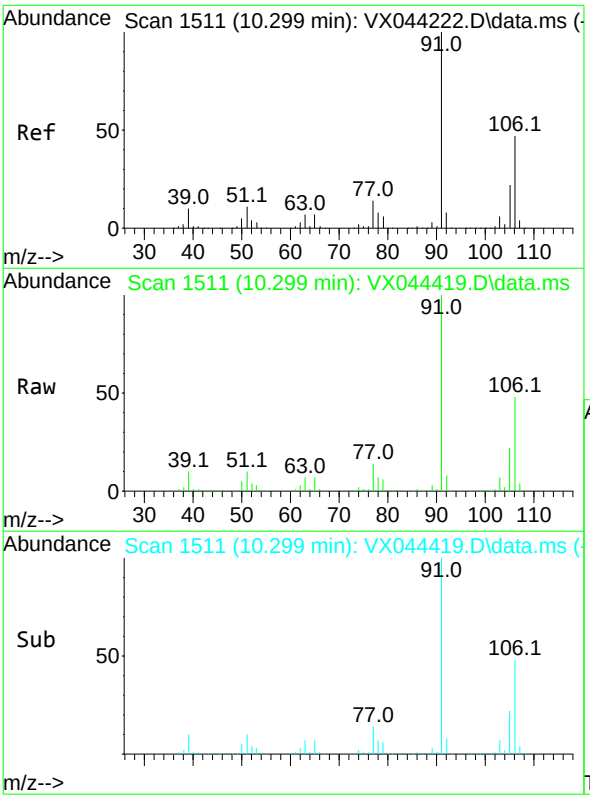
Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.5	35.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

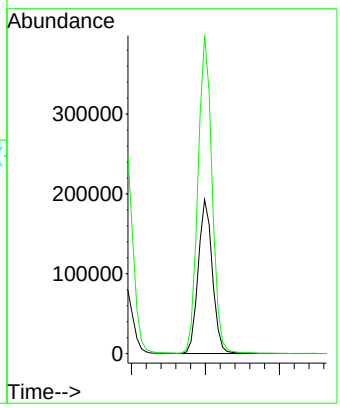


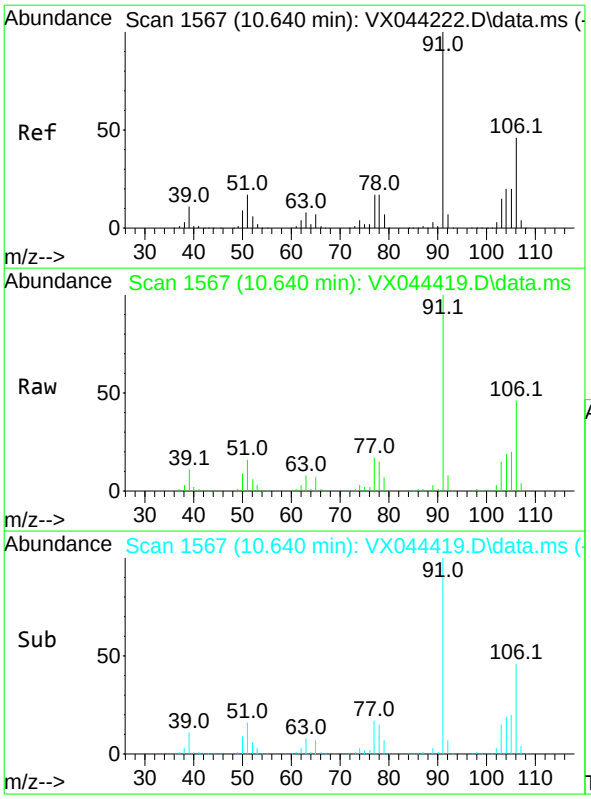


#68
m/p-Xylenes
Concen: 99.414 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:106 Resp: 256314

Ion	Ratio	Lower	Upper
106	100		
91	206.5	170.2	255.2





#69
o-Xylene
Concen: 49.398 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

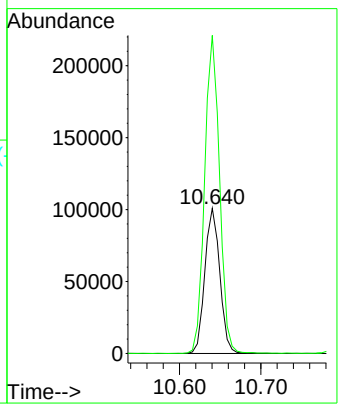
Tgt Ion:106 Resp: 128864

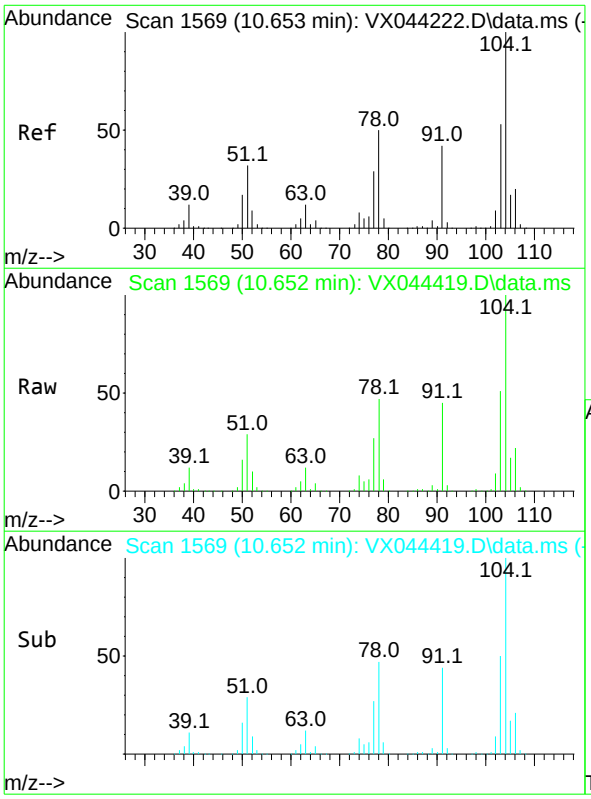
Ion	Ratio	Lower	Upper
106	100		
91	218.0	112.3	337.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

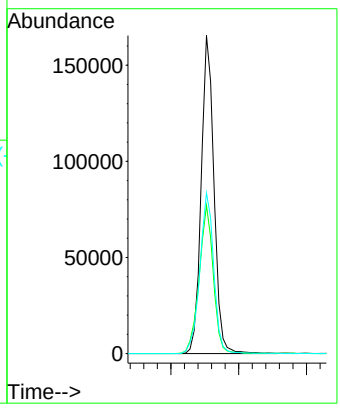


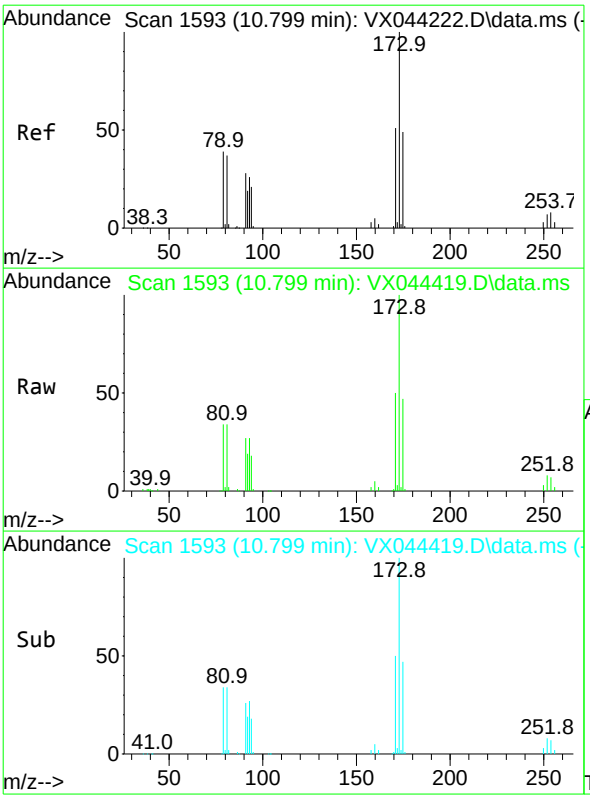


#70
Styrene
Concen: 51.842 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:104 Resp: 216799

Ion	Ratio	Lower	Upper
104	100		
78	51.3	44.6	67.0
103	55.1	45.4	68.0

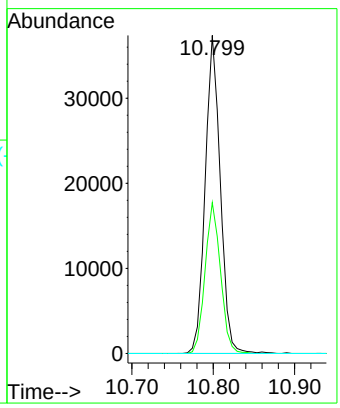




#71
Bromoform
Concen: 52.457 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:173 Resp: 48213

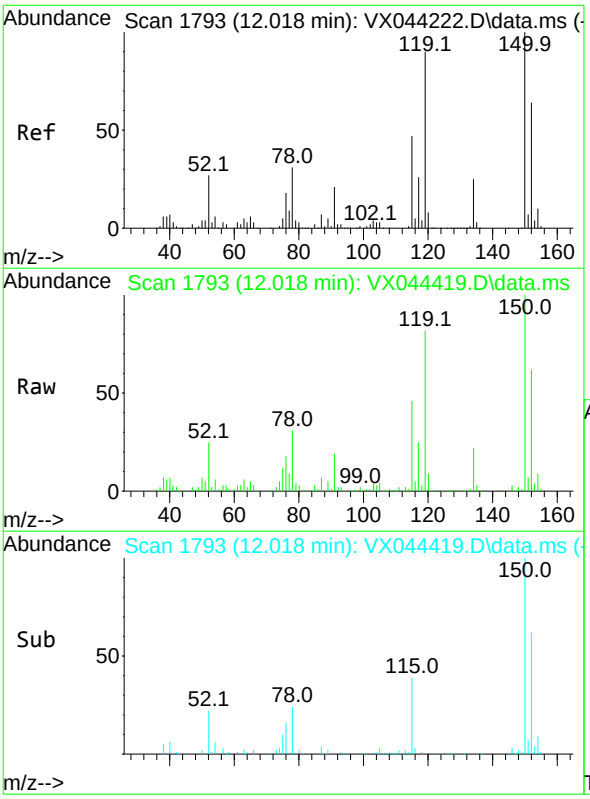
Ion	Ratio	Lower	Upper
173	100		
175	48.4	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

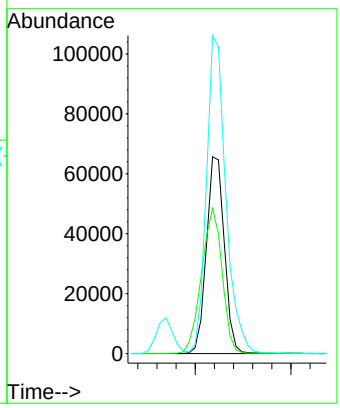
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

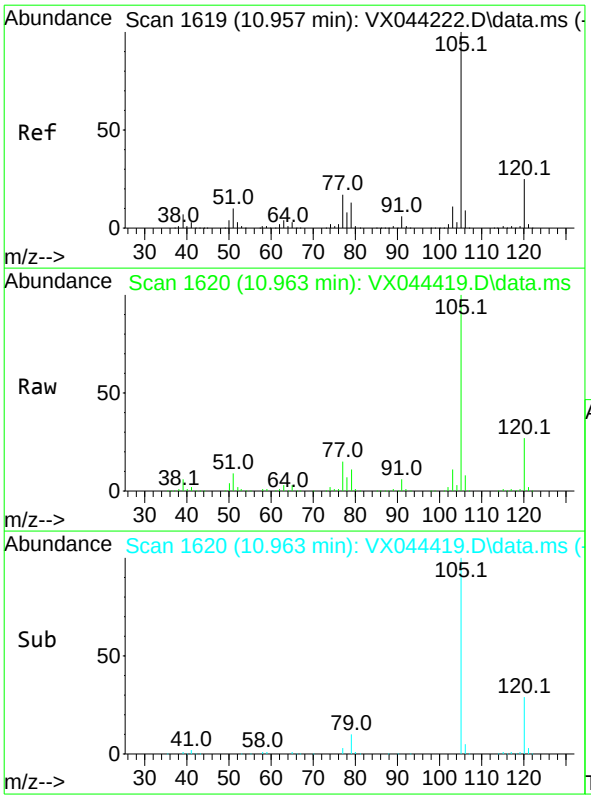


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:152 Resp: 85459

Ion	Ratio	Lower	Upper
152	100		
115	84.8	44.5	133.3
150	174.3	0.0	353.8

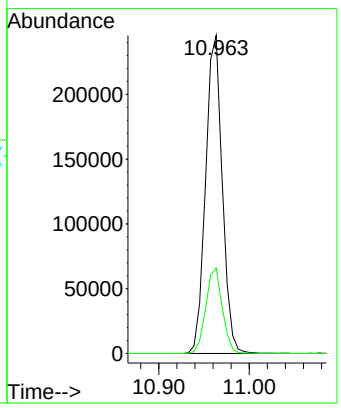




#73
Isopropylbenzene
Concen: 48.052 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:105 Resp: 314366

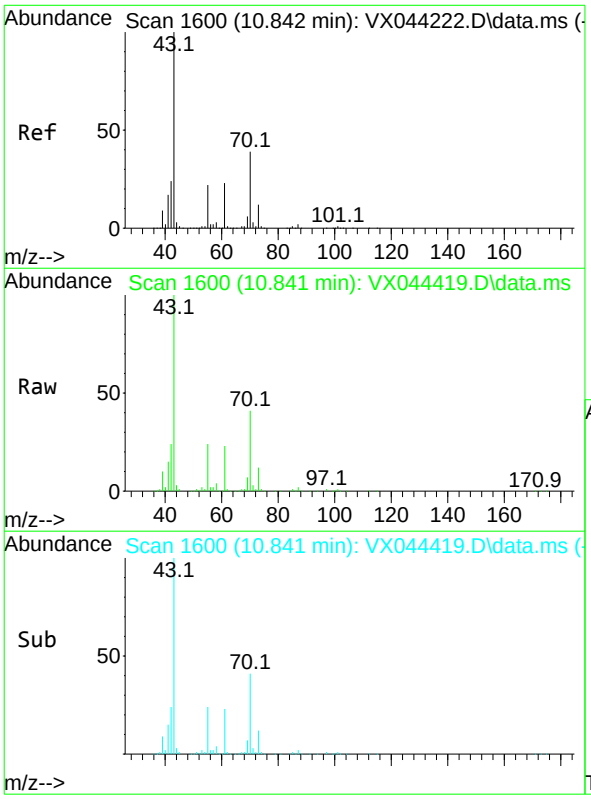
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

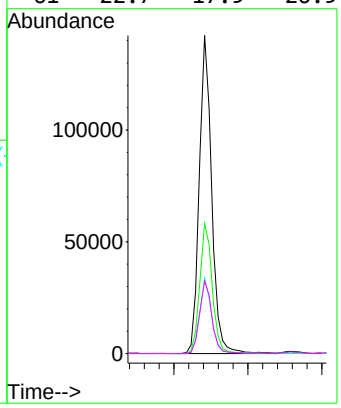
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

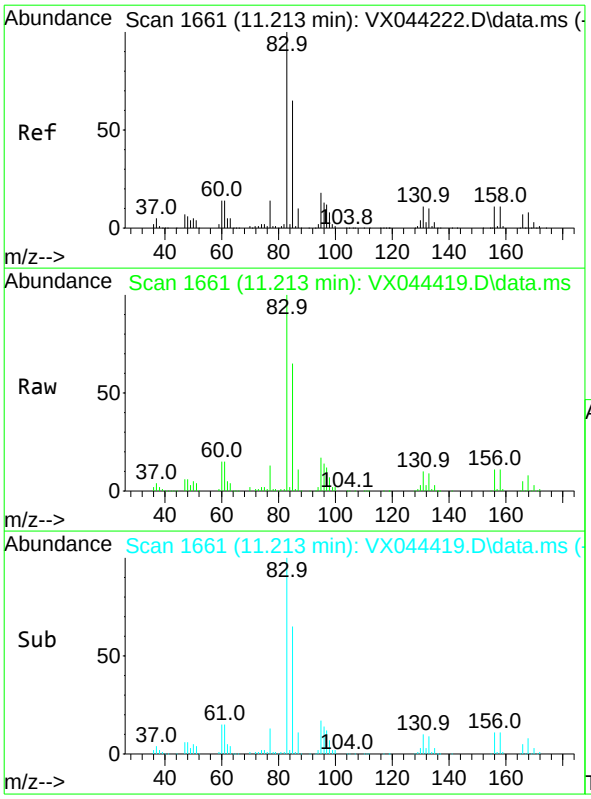


#74
N-amyl acetate
Concen: 55.002 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 43 Resp: 166301

Ion	Ratio	Lower	Upper
43	100		
70	41.3	31.9	47.9
55	22.9	17.9	26.9
61	22.7	17.9	26.9





#75
1,1,2,2-Tetrachloroethane
Concen: 52.663 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

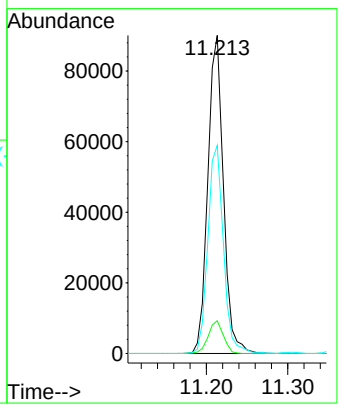
Tgt Ion: 83 Resp: 119667

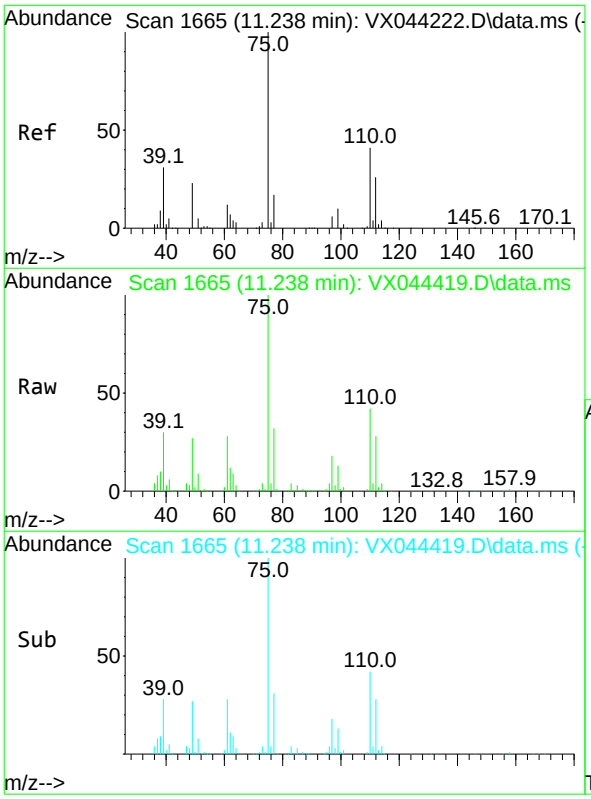
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.4
85	65.5	32.5	97.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

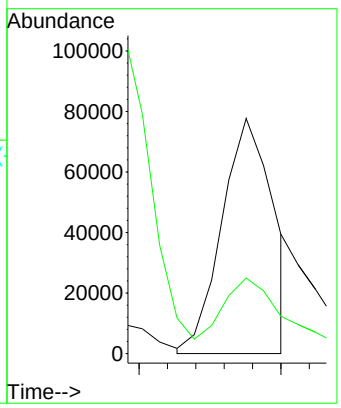


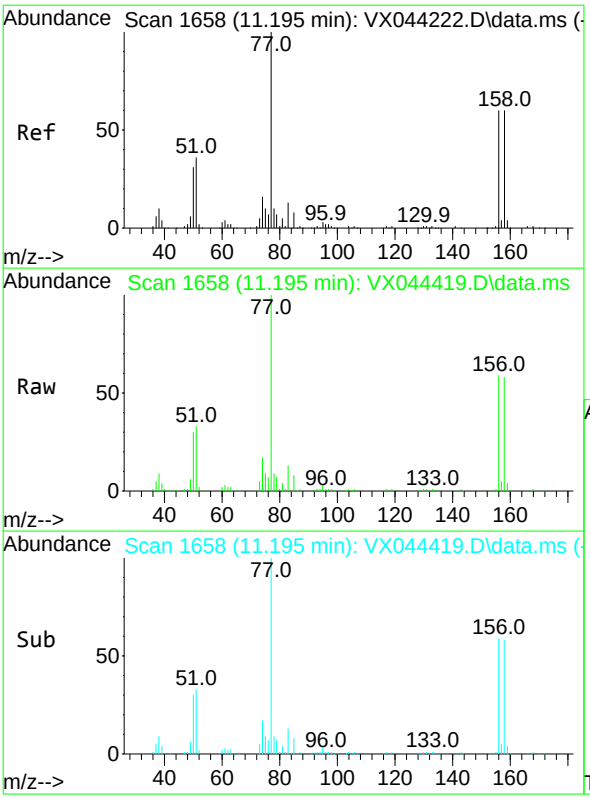


#76
1,2,3-Trichloropropane
Concen: 51.257 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 75 Resp: 97804

Ion	Ratio	Lower	Upper
75	100		
77	40.8	20.9	62.7





#77
Bromobenzene
Concen: 51.162 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

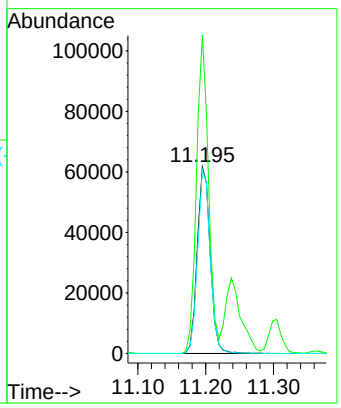
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

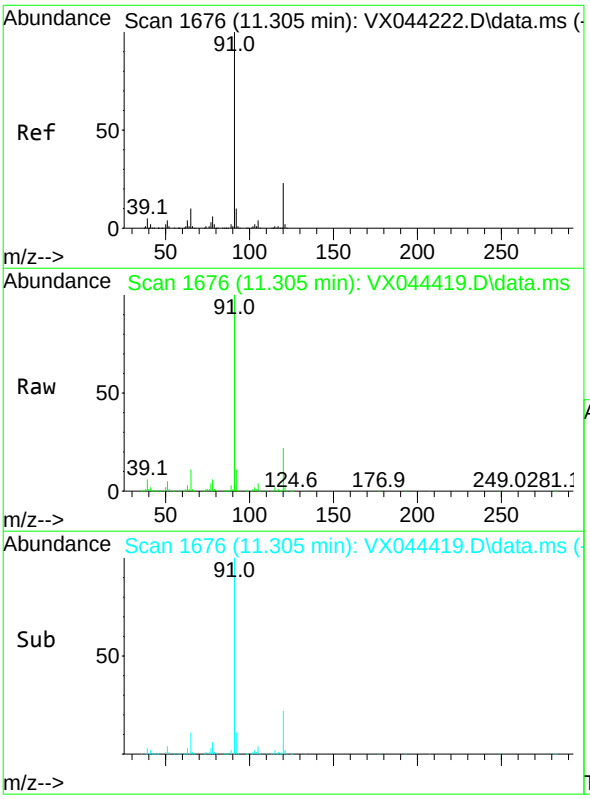
Tgt Ion:156 Resp: 81167

Ion	Ratio	Lower	Upper
156	100		
77	160.0	82.6	247.8
158	96.8	48.8	146.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

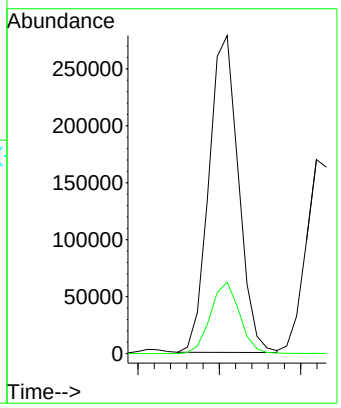


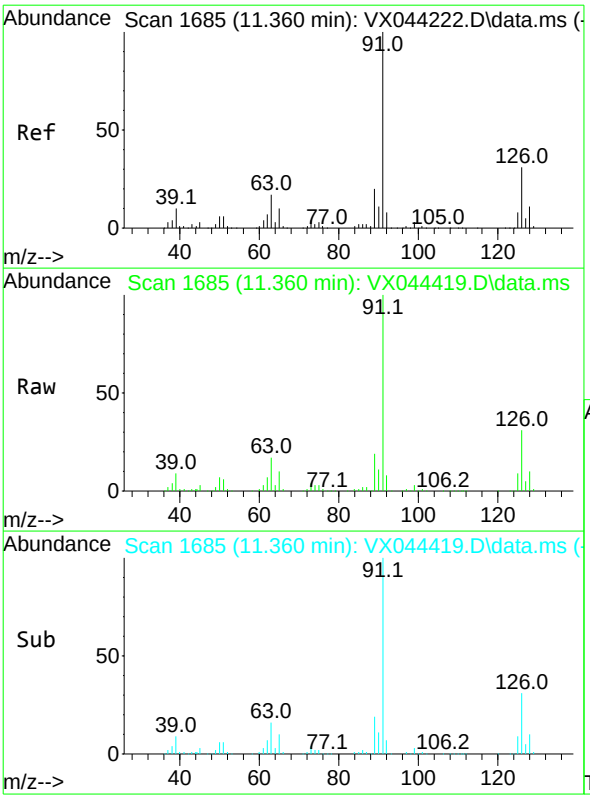


#78
n-propylbenzene
Concen: 48.614 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 91 Resp: 351524

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.0	33.0

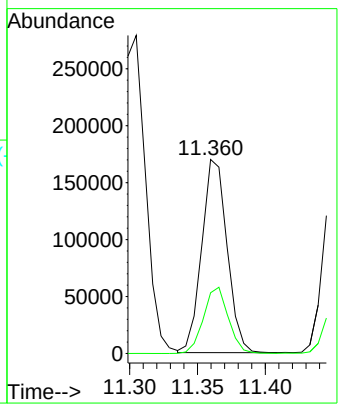




#79
2-Chlorotoluene
Concen: 47.194 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 91 Resp: 220699

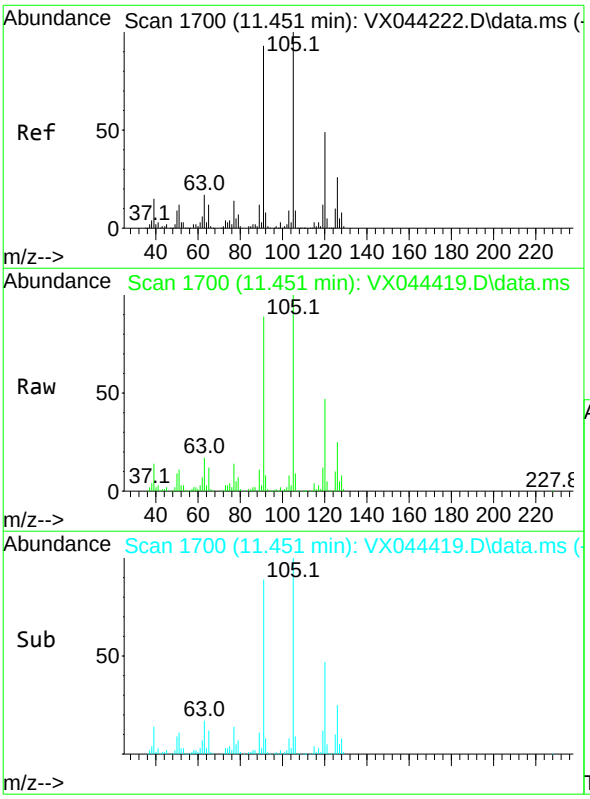
Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

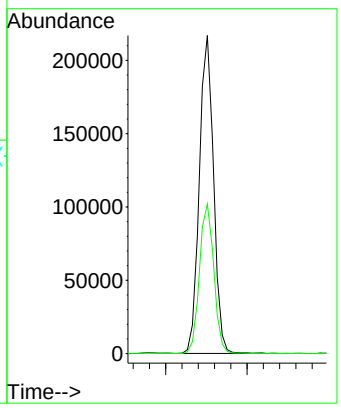
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

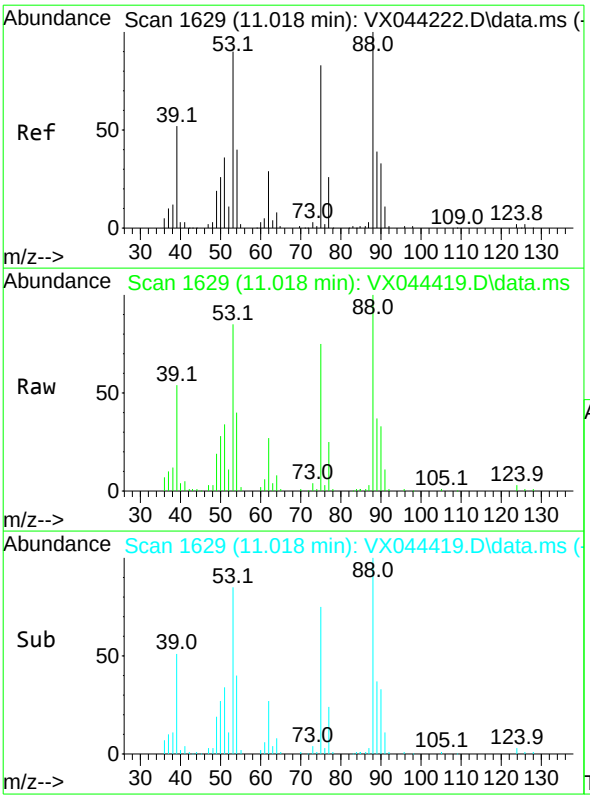


#80
1,3,5-Trimethylbenzene
Concen: 48.573 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:105 Resp: 263525

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 40.690 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

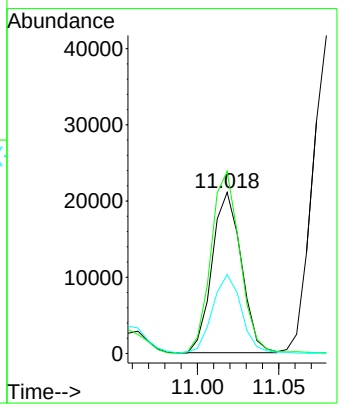
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

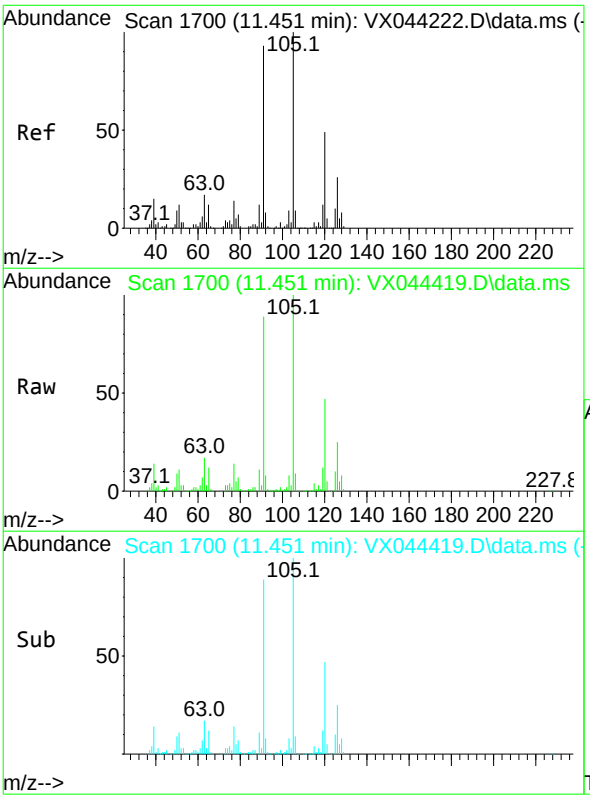
Tgt Ion: 75 Resp: 26316

Ion	Ratio	Lower	Upper
75	100		
53	114.4	93.6	140.4
89	49.3	37.3	55.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

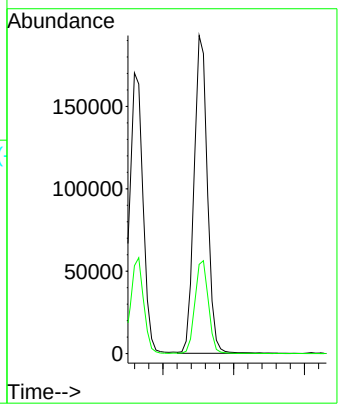


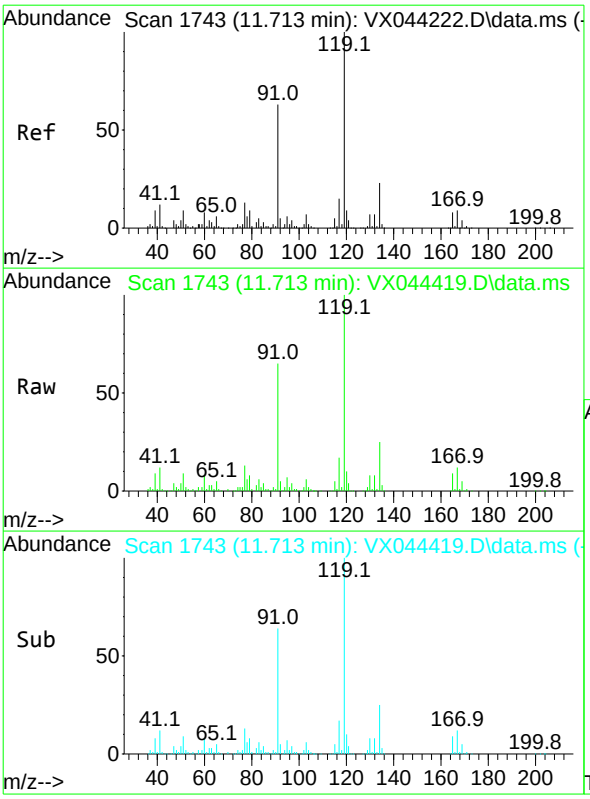


#82
4-Chlorotoluene
Concen: 48.639 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 91 Resp: 251878

Ion	Ratio	Lower	Upper
91	100		
126	29.5	14.5	43.5

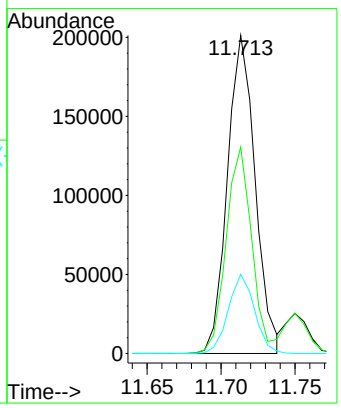




#83
tert-Butylbenzene
Concen: 48.951 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:119 Resp: 262462

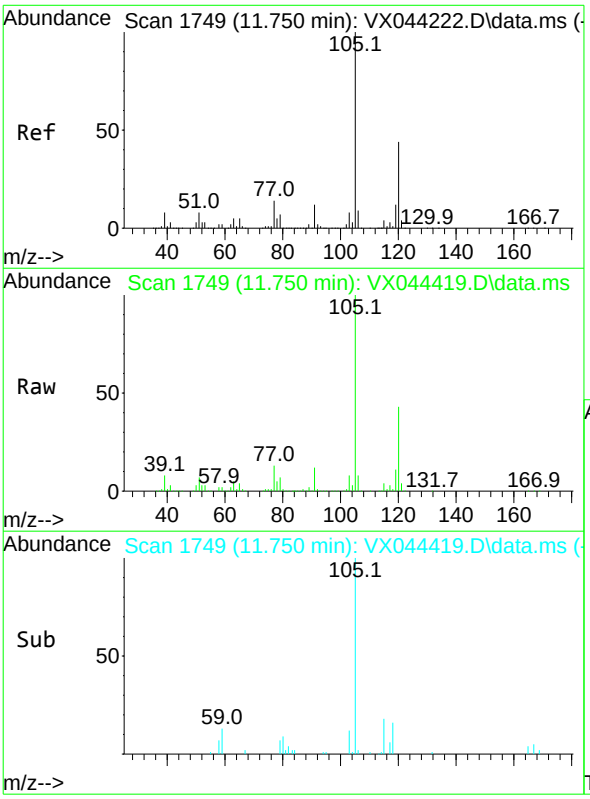
Ion	Ratio	Lower	Upper
119	100		
91	60.4	30.9	92.5
134	23.5	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

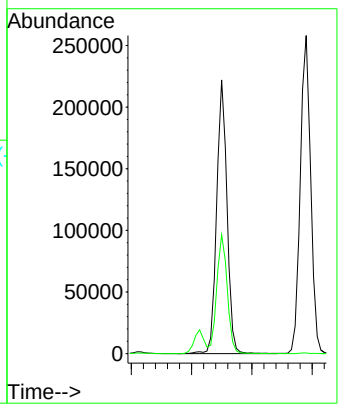
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

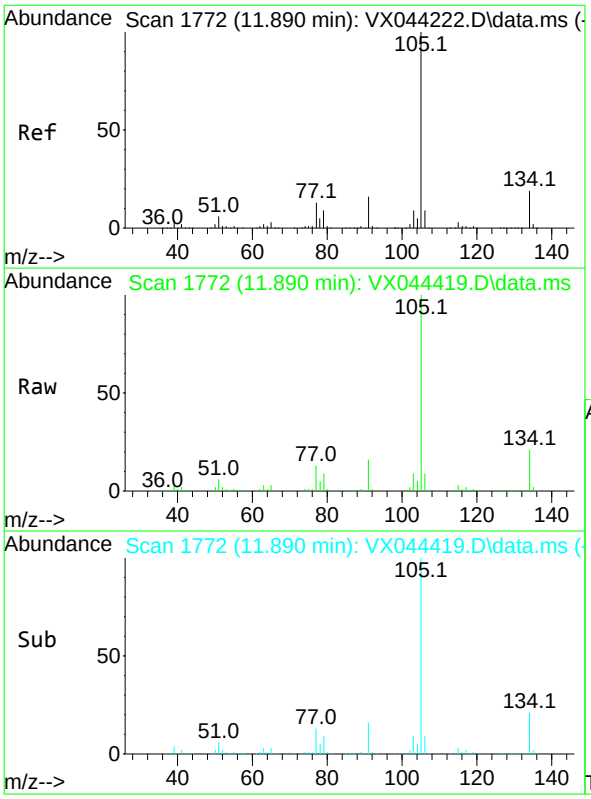


#84
1,2,4-Trimethylbenzene
Concen: 49.728 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:105 Resp: 264960

Ion	Ratio	Lower	Upper
105	100		
120	44.3	21.7	65.1

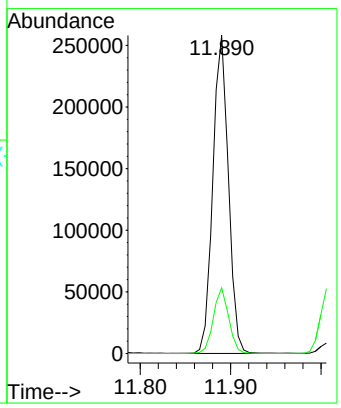




#85
sec-Butylbenzene
Concen: 47.411 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:105 Resp: 308602

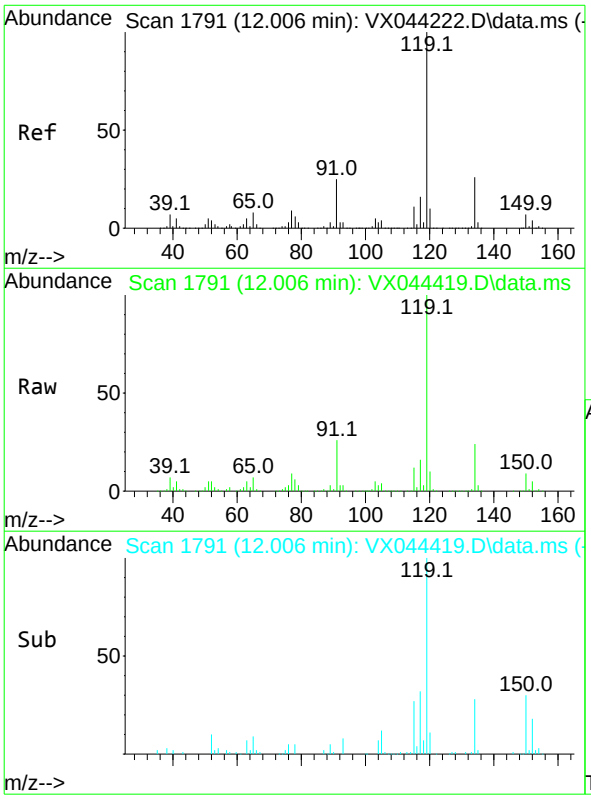
Ion	Ratio	Lower	Upper
105	100		
134	20.3	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

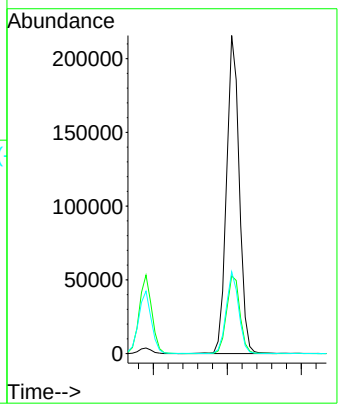
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

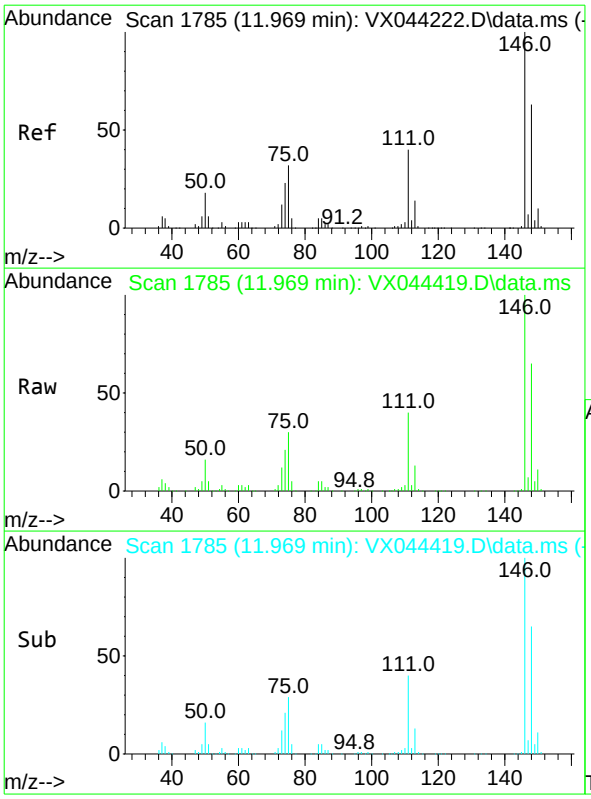


#86
p-Isopropyltoluene
Concen: 47.558 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:119 Resp: 257648

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.8	38.4
91	25.0	13.0	39.0

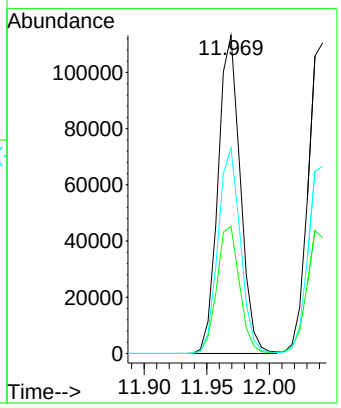




#87
1,3-Dichlorobenzene
Concen: 50.634 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:146 Resp: 140315

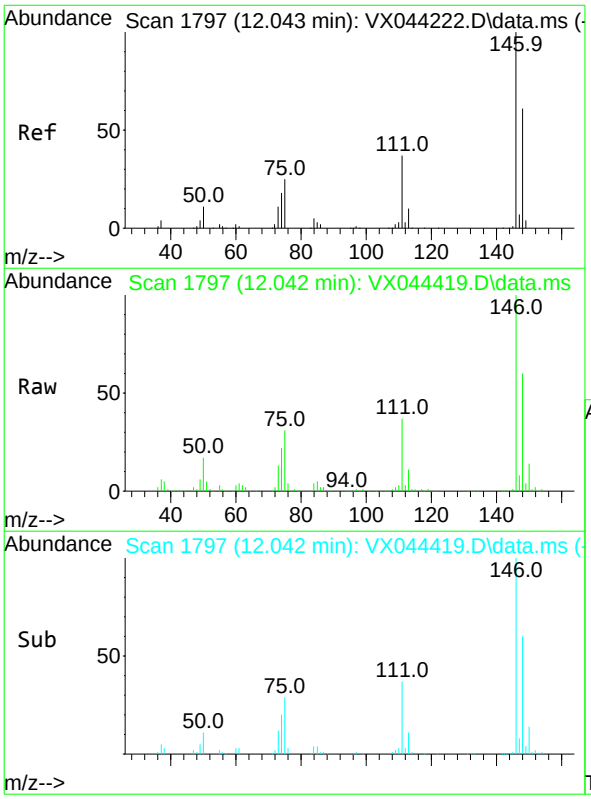
Ion	Ratio	Lower	Upper
146	100		
111	40.8	21.4	64.2
148	64.8	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

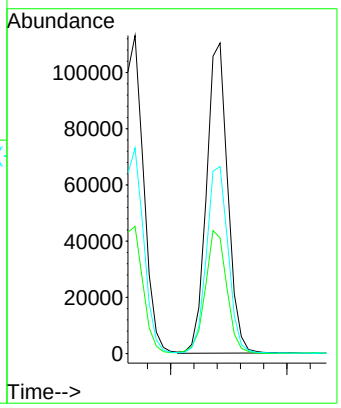
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

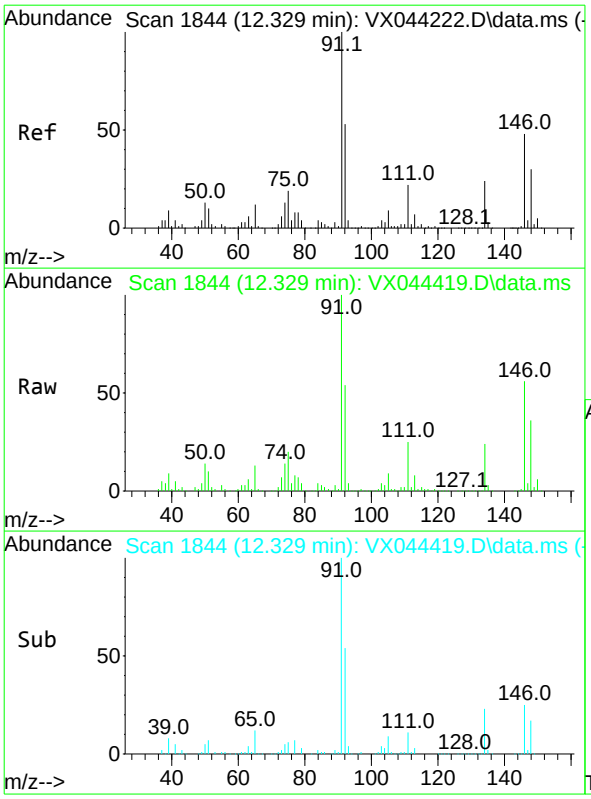


#88
1,4-Dichlorobenzene
Concen: 49.148 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:146 Resp: 140008

Ion	Ratio	Lower	Upper
146	100		
111	40.1	21.0	63.0
148	62.5	32.3	96.8





#89
n-Butylbenzene
Concen: 47.053 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

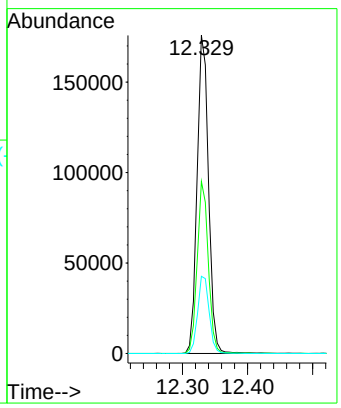
Tgt Ion: 91 Resp: 214353

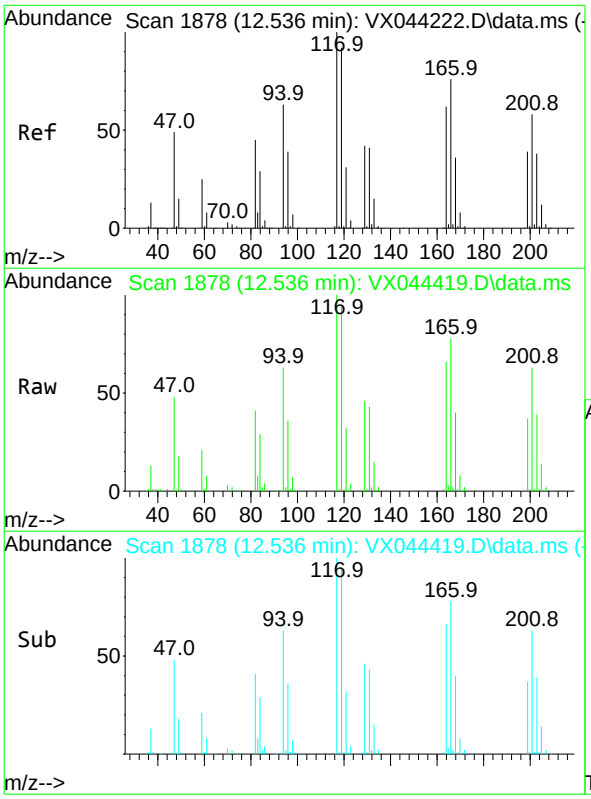
Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.6	79.7
134	24.5	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

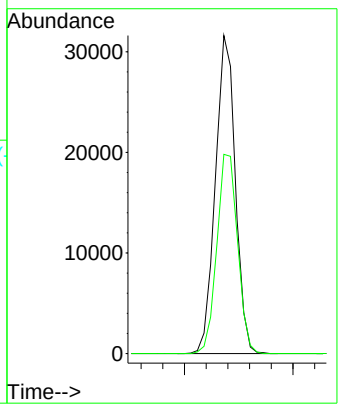


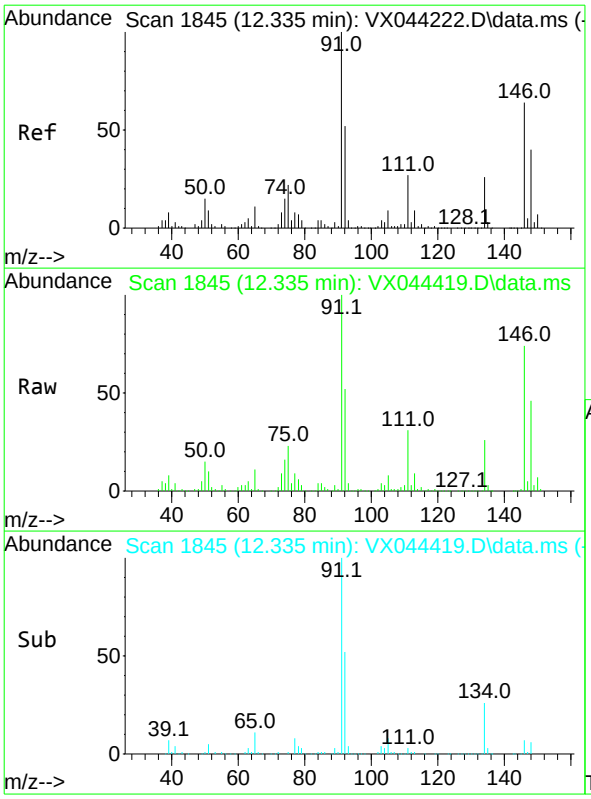


#90
Hexachloroethane
Concen: 51.057 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:117 Resp: 40378

Ion	Ratio	Lower	Upper
117	100		
201	65.2	31.4	94.2





#91
1,2-Dichlorobenzene
Concen: 50.596 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

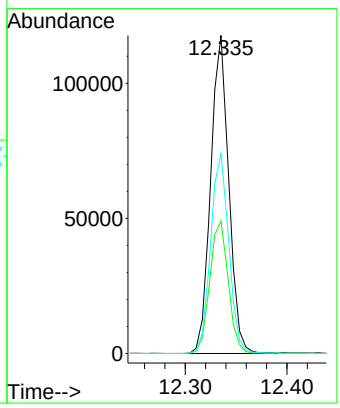
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

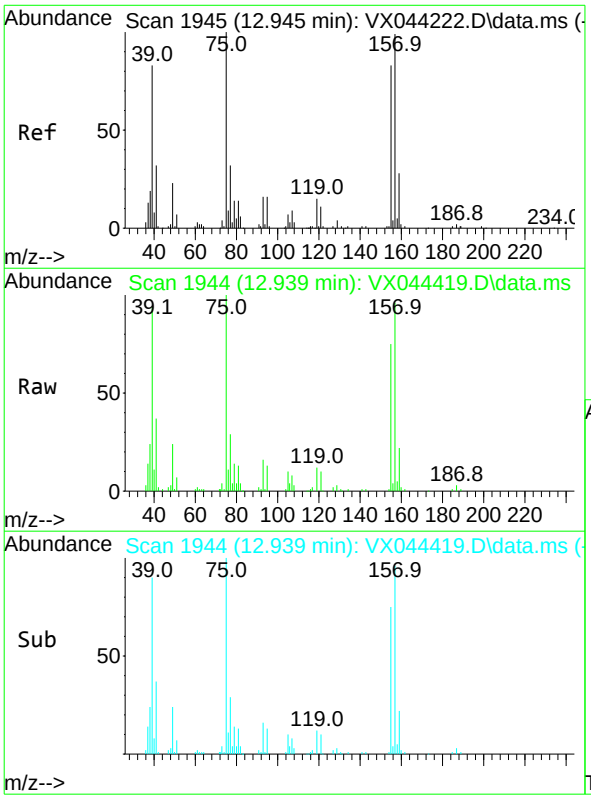
Tgt Ion:146 Resp: 145586

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.4	64.3
148	63.2	31.6	95.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

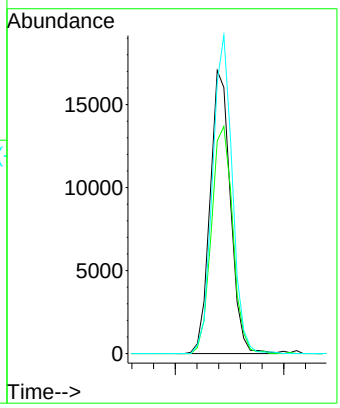


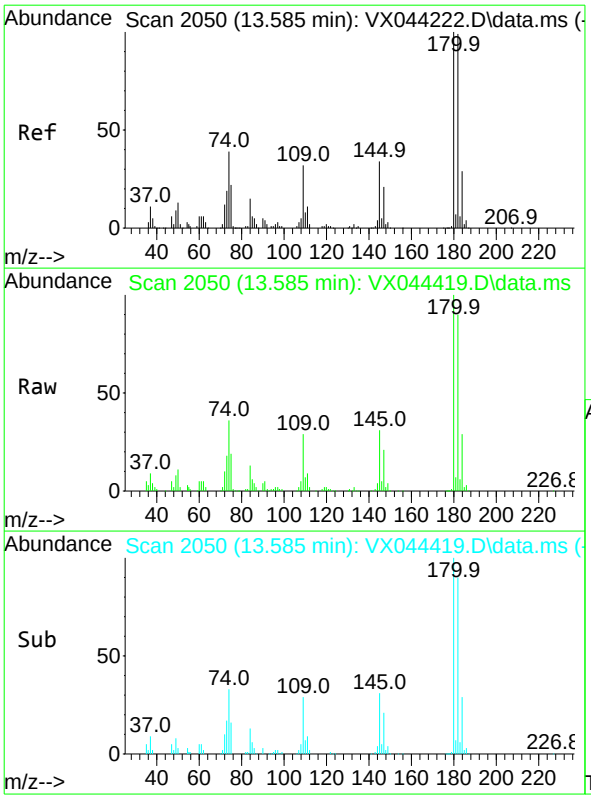


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.364 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion: 75 Resp: 22216

Ion	Ratio	Lower	Upper
75	100		
155	83.9	38.1	114.3
157	109.0	47.2	141.6





#93
1,2,4-Trichlorobenzene
Concen: 52.638 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

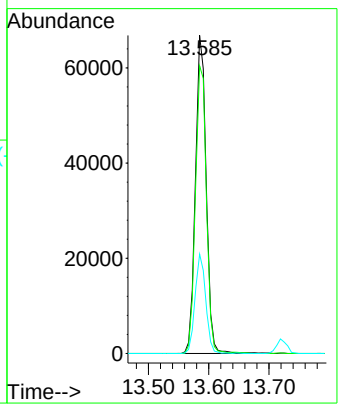
Tgt Ion:180 Resp: 83037

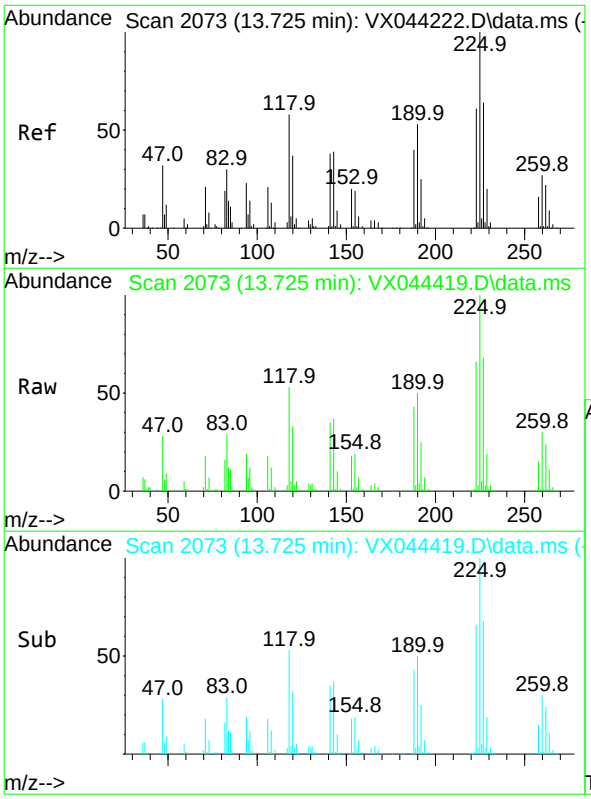
Ion	Ratio	Lower	Upper
180	100		
182	91.4	48.0	144.2
145	30.9	16.6	49.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

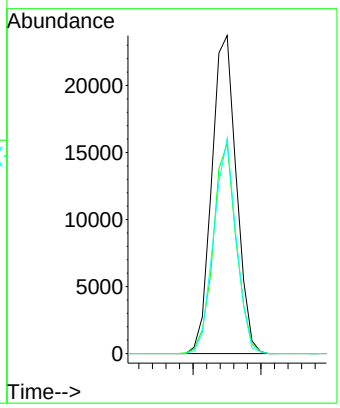


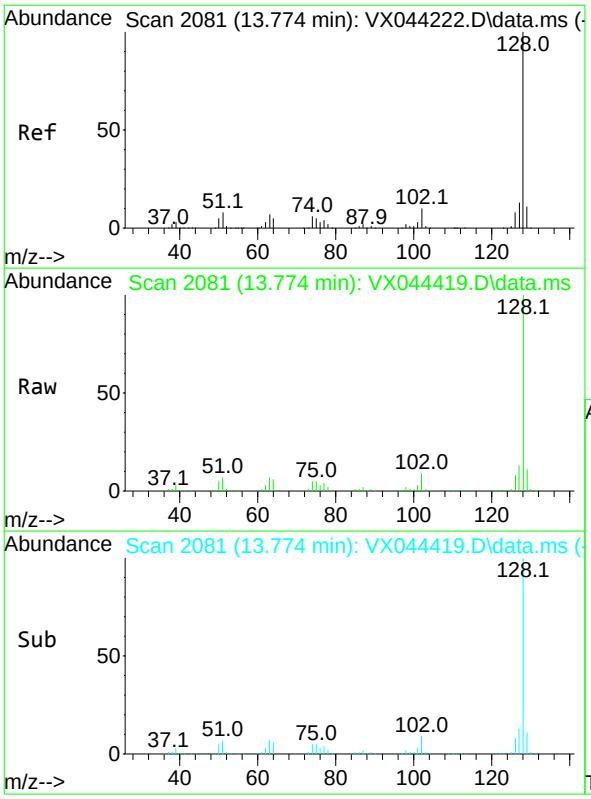


#94
Hexachlorobutadiene
Concen: 47.098 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:225 Resp: 29885

Ion	Ratio	Lower	Upper
225	100		
223	62.1	30.8	92.4
227	61.8	32.1	96.3





#95
Naphthalene
Concen: 50.581 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

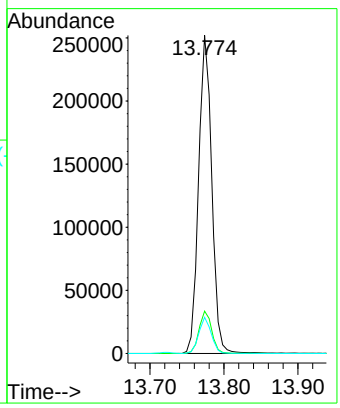
Tgt Ion:128 Resp: 311462

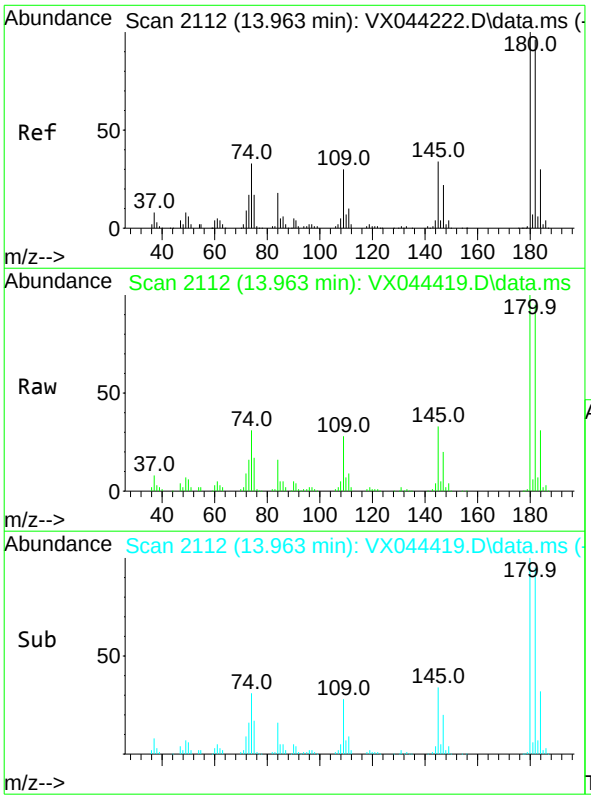
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.8	9.0	13.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

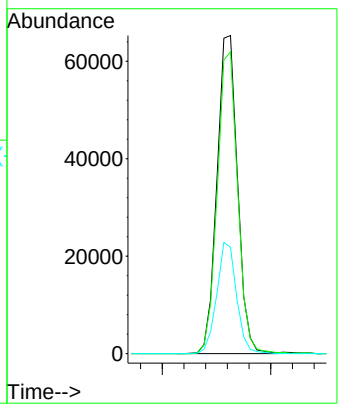




#96
1,2,3-Trichlorobenzene
Concen: 51.233 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14

Tgt Ion:180 Resp: 85722

Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.0	144.0
145	33.7	17.7	53.1



Evaluate Continuing Calibration Report

Sample Results: **VX044419.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044419.D
Acq On : 19 Dec 2024 07:14
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 07:44:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	0.773	0.726	6.1	90	0.00
3	P	Chloromethane	0.739	0.772	-4.5	100	0.00
4	C	Vinyl Chloride	0.770	0.787	-2.2#	98	0.00
5	T	Bromomethane	0.546	0.550	-0.7	98	0.00
6	T	Chloroethane	0.480	0.563	-17.3	104	0.00
7	T	Trichlorofluoromethane	1.508	1.206	20.0	77	0.00
8	T	Diethyl Ether	0.515	0.502	2.5	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.610	0.523	14.3	83	0.00
10	T	Methyl Iodide	0.804	0.869	-8.1	100	0.00
11	T	Tert butyl alcohol	0.124	0.130	-4.8	106	-0.01
12	CM	1,1-Dichloroethene	0.560	0.578	-3.2#	95	0.00
13	T	Acrolein	0.179	0.205	-14.5	109	0.00
14	T	Allyl chloride	0.933	0.922	1.2	89	0.00
15	T	Acrylonitrile	0.342	0.368	-7.6	101	0.00
16	T	Acetone	0.357	0.336	5.9	86	0.00
17	T	Carbon Disulfide	1.065	1.140	-7.0	97	0.00
18	T	Methyl Acetate	0.922	0.957	-3.8	98	0.00
19	T	Methyl tert-butyl Ether	2.187	2.245	-2.7	95	0.00
20	T	Methylene Chloride	0.671	0.712	-6.1	101	0.00
21	T	trans-1,2-Dichloroethene	0.596	0.598	-0.3	94	0.00
22	T	Diisopropyl ether	2.102	2.147	-2.1	97	0.00
23	T	Vinyl Acetate	1.709	1.899	-11.1	97	0.00
24	P	1,1-Dichloroethane	1.172	1.226	-4.6	96	0.00
25	T	2-Butanone	0.508	0.510	-0.4	91	0.00
26	T	2,2-Dichloropropane	0.952	0.518	45.6#	49#	0.00
27	T	cis-1,2-Dichloroethene	0.756	0.755	0.1	96	0.00
28	T	Bromochloromethane	0.575	0.579	-0.7	96	0.00
29	T	Tetrahydrofuran	0.326	0.332	-1.8	96	0.00
30	C	Chloroform	1.316	1.295	1.6#	94	0.00
31	T	Cyclohexane	0.946	0.810	14.4	81	0.00
32	T	1,1,1-Trichloroethane	1.093	1.063	2.7	88	0.00
33	S	1,2-Dichloroethane-d4	0.877	0.848	3.3	90	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
35	S	Dibromofluoromethane	0.346	0.362	-4.6	93	0.00
36	T	1,1-Dichloropropene	0.448	0.419	6.5	88	0.00
37	T	Ethyl Acetate	0.553	0.578	-4.5	93	0.00
38	T	Carbon Tetrachloride	0.482	0.467	3.1	87	0.00
39	T	Methylcyclohexane	0.535	0.445	16.8	75	0.00
40	TM	Benzene	1.359	1.429	-5.2	95	0.00
41	T	Methacrylonitrile	0.294	0.313	-6.5	97	0.00
42	TM	1,2-Dichloroethane	0.560	0.575	-2.7	92	0.00
43	T	Isopropyl Acetate	0.865	0.930	-7.5	95	0.00
44	TM	Trichloroethene	0.339	0.345	-1.8	93	0.00
45	C	1,2-Dichloropropane	0.347	0.365	-5.2#	96	0.00
46	T	Dibromomethane	0.269	0.287	-6.7	94	0.00
47	T	Bromodichloromethane	0.465	0.507	-9.0	94	0.00
48	T	Methyl methacrylate	0.420	0.428	-1.9	90	0.00

Sample Results: **VX044419.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044419.D
Acq On : 19 Dec 2024 07:14
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 07:44:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.006	14.3	80	0.00
50	S	Toluene-d8	1.168	1.160	0.7	87	0.00
51	T	4-Methyl-2-Pentanone	0.556	0.581	-4.5	93	0.00
52	CM	Toluene	0.853	0.839	1.6#	90	0.00
53	T	t-1,3-Dichloropropene	0.455	0.461	-1.3	84	0.00
54	T	cis-1,3-Dichloropropene	0.507	0.509	-0.4	84	0.00
55	T	1,1,2-Trichloroethane	0.339	0.362	-6.8	95	0.00
56	T	Ethyl methacrylate	0.535	0.572	-6.9	93	0.00
57	T	1,3-Dichloropropane	0.590	0.616	-4.4	94	0.00
58	T	2-Chloroethyl Vinyl ether	0.270	0.255	5.6	82	0.00
59	T	2-Hexanone	0.403	0.424	-5.2	91	0.00
60	T	Dibromochloromethane	0.326	0.365	-12.0	93	0.00
61	T	1,2-Dibromoethane	0.345	0.373	-8.1	95	0.00
62	S	4-Bromofluorobenzene	0.408	0.396	2.9	84	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
64	T	Tetrachloroethene	0.332	0.307	7.5	88	0.00
65	PM	Chlorobenzene	1.071	1.058	1.2	90	0.00
66	T	1,1,1,2-Tetrachloroethane	0.344	0.375	-9.0	92	0.00
67	C	Ethyl Benzene	1.851	1.801	2.7#	86	0.00
68	T	m/p-Xylenes	0.679	0.675	0.6	88	0.00
69	T	o-Xylene	0.687	0.679	1.2	89	0.00
70	T	Styrene	1.102	1.142	-3.6	91	0.00
71	P	Bromoform	0.219	0.254	-16.0	95	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
73	T	Isopropylbenzene	3.828	3.679	3.9	84	0.00
74	T	N-amyl acetate	1.769	1.946	-10.0	91	0.00
75	P	1,1,2,2-Tetrachloroethane	1.329	1.400	-5.3	94	0.00
76	T	1,2,3-Trichloropropane	1.116	1.144	-2.5	91	0.00
77	T	Bromobenzene	0.928	0.950	-2.4	91	0.00
78	T	n-propylbenzene	4.231	4.113	2.8	82	0.00
79	T	2-Chlorotoluene	2.736	2.583	5.6	84	0.00
80	T	1,3,5-Trimethylbenzene	3.174	3.084	2.8	84	0.00
81	T	trans-1,4-Dichloro-2-butene	0.347	0.308	11.2	75	0.00
82	T	4-Chlorotoluene	3.030	2.947	2.7	85	0.00
83	T	tert-Butylbenzene	3.137	3.071	2.1	85	0.00
84	T	1,2,4-Trimethylbenzene	3.117	3.100	0.5	85	0.00
85	T	sec-Butylbenzene	3.808	3.611	5.2	81	0.00
86	T	p-Isopropyltoluene	3.170	3.015	4.9	81	0.00
87	T	1,3-Dichlorobenzene	1.621	1.642	-1.3	88	0.00
88	T	1,4-Dichlorobenzene	1.667	1.638	1.7	88	0.00
89	T	n-Butylbenzene	2.665	2.508	5.9	79	0.00
90	T	Hexachloroethane	0.463	0.472	-1.9	84	0.00
91	T	1,2-Dichlorobenzene	1.683	1.704	-1.2	89	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.258	0.260	-0.8	85	0.00
93	T	1,2,4-Trichlorobenzene	0.923	0.972	-5.3	89	0.00
94	T	Hexachlorobutadiene	0.371	0.350	5.7	85	0.00
95	T	Naphthalene	3.603	3.645	-1.2	85	0.00

Sample Results: **VX044419.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044419.D
Acq On : 19 Dec 2024 07:14
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 07:44:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.979	1.003	-2.5	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Sample Results: **VX044419.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044419.D
Acq On : 19 Dec 2024 07:14
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 07:44:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	50.000	46.955	6.1	90	0.00
3	P	Chloromethane	50.000	52.180	-4.4	100	0.00
4	C	Vinyl Chloride	50.000	51.081	-2.2#	98	0.00
5	T	Bromomethane	50.000	50.285	-0.6	98	0.00
6	T	Chloroethane	50.000	58.732	-17.5	104	0.00
7	T	Trichlorofluoromethane	50.000	39.974	20.1	77	0.00
8	T	Diethyl Ether	50.000	48.751	2.5	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	42.827	14.3	83	0.00
10	T	Methyl Iodide	50.000	54.052	-8.1	100	0.00
11	T	Tert butyl alcohol	250.000	263.745	-5.5	106	-0.01
12	CM	1,1-Dichloroethene	50.000	51.604	-3.2#	95	0.00
13	T	Acrolein	250.000	287.020	-14.8	109	0.00
14	T	Allyl chloride	50.000	49.398	1.2	89	0.00
15	T	Acrylonitrile	250.000	269.056	-7.6	101	0.00
16	T	Acetone	250.000	235.213	5.9	86	0.00
17	T	Carbon Disulfide	50.000	53.502	-7.0	97	0.00
18	T	Methyl Acetate	50.000	51.949	-3.9	98	0.00
19	T	Methyl tert-butyl Ether	50.000	51.323	-2.6	95	0.00
20	T	Methylene Chloride	50.000	53.006	-6.0	101	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.186	-0.4	94	0.00
22	T	Diisopropyl ether	50.000	51.065	-2.1	97	0.00
23	T	Vinyl Acetate	250.000	277.841	-11.1	97	0.00
24	P	1,1-Dichloroethane	50.000	52.331	-4.7	96	0.00
25	T	2-Butanone	250.000	251.145	-0.5	91	0.00
26	T	2,2-Dichloropropane	50.000	27.229	45.5#	49	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.930	0.1	96	0.00
28	T	Bromochloromethane	50.000	50.366	-0.7	96	0.00
29	T	Tetrahydrofuran	250.000	254.175	-1.7	96	0.00
30	C	Chloroform	50.000	49.178	1.6#	94	0.00
31	T	Cyclohexane	50.000	42.827	14.3	81	0.00
32	T	1,1,1-Trichloroethane	50.000	48.640	2.7	88	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.341	3.3	90	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	94	0.00
35	S	Dibromofluoromethane	50.000	52.285	-4.6	93	0.00
36	T	1,1-Dichloropropene	50.000	46.748	6.5	88	0.00
37	T	Ethyl Acetate	50.000	52.248	-4.5	93	0.00
38	T	Carbon Tetrachloride	50.000	48.416	3.2	87	0.00
39	T	Methylcyclohexane	50.000	41.546	16.9	75	0.00
40	TM	Benzene	50.000	52.556	-5.1	95	0.00
41	T	Methacrylonitrile	50.000	53.276	-6.6	97	0.00
42	TM	1,2-Dichloroethane	50.000	51.349	-2.7	92	0.00
43	T	Isopropyl Acetate	50.000	53.759	-7.5	95	0.00
44	TM	Trichloroethene	50.000	50.868	-1.7	93	0.00
45	C	1,2-Dichloropropane	50.000	52.553	-5.1#	96	0.00
46	T	Dibromomethane	50.000	53.185	-6.4	94	0.00
47	T	Bromodichloromethane	50.000	54.439	-8.9	94	0.00
48	T	Methyl methacrylate	50.000	50.984	-2.0	90	0.00

Sample Results: **VX044419.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044419.D
Acq On : 19 Dec 2024 07:14
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 07:44:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	927.969	7.2	80	0.00
50	S	Toluene-d8	50.000	49.641	0.7	87	0.00
51	T	4-Methyl-2-Pentanone	250.000	261.345	-4.5	93	0.00
52	CM	Toluene	50.000	49.148	1.7#	90	0.00
53	T	t-1,3-Dichloropropene	50.000	46.368	7.3	84	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.228	-0.5	84	0.00
55	T	1,1,2-Trichloroethane	50.000	53.407	-6.8	95	0.00
56	T	Ethyl methacrylate	50.000	53.432	-6.9	93	0.00
57	T	1,3-Dichloropropane	50.000	52.210	-4.4	94	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	235.938	5.6	82	0.00
59	T	2-Hexanone	250.000	263.434	-5.4	91	0.00
60	T	Dibromochloromethane	50.000	50.717	-1.4	93	0.00
61	T	1,2-Dibromoethane	50.000	54.026	-8.1	95	0.00
62	S	4-Bromofluorobenzene	50.000	48.509	3.0	84	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	92	0.00
64	T	Tetrachloroethene	50.000	46.221	7.6	88	0.00
65	PM	Chlorobenzene	50.000	49.379	1.2	90	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	54.398	-8.8	92	0.00
67	C	Ethyl Benzene	50.000	48.644	2.7#	86	0.00
68	T	m/p-Xylenes	100.000	99.414	0.6	88	0.00
69	T	o-Xylene	50.000	49.398	1.2	89	0.00
70	T	Styrene	50.000	51.842	-3.7	91	0.00
71	P	Bromoform	50.000	52.457	-4.9	95	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	90	0.00
73	T	Isopropylbenzene	50.000	48.052	3.9	84	0.00
74	T	N-amyl acetate	50.000	55.002	-10.0	91	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.663	-5.3	94	0.00
76	T	1,2,3-Trichloropropane	50.000	51.257	-2.5	91	0.00
77	T	Bromobenzene	50.000	51.162	-2.3	91	0.00
78	T	n-propylbenzene	50.000	48.614	2.8	82	0.00
79	T	2-Chlorotoluene	50.000	47.194	5.6	84	0.00
80	T	1,3,5-Trimethylbenzene	50.000	48.573	2.9	84	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	40.690	18.6	75	0.00
82	T	4-Chlorotoluene	50.000	48.639	2.7	85	0.00
83	T	tert-Butylbenzene	50.000	48.951	2.1	85	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.728	0.5	85	0.00
85	T	sec-Butylbenzene	50.000	47.411	5.2	81	0.00
86	T	p-Isopropyltoluene	50.000	47.558	4.9	81	0.00
87	T	1,3-Dichlorobenzene	50.000	50.634	-1.3	88	0.00
88	T	1,4-Dichlorobenzene	50.000	49.148	1.7	88	0.00
89	T	n-Butylbenzene	50.000	47.053	5.9	79	0.00
90	T	Hexachloroethane	50.000	51.057	-2.1	84	0.00
91	T	1,2-Dichlorobenzene	50.000	50.596	-1.2	89	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	50.364	-0.7	85	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.638	-5.3	89	0.00
94	T	Hexachlorobutadiene	50.000	47.098	5.8	85	0.00
95	T	Naphthalene	50.000	50.581	-1.2	85	0.00

Sample Results: **VX044419.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044419.D
Acq On : 19 Dec 2024 07:14
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 07:44:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.233	-2.5	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VX044438.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 09:16

Lab File ID: VX044438.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.854		10.48	20
Chloromethane	0.739	0.782	0.1	5.82	20
Vinyl Chloride	0.770	0.798		3.64	20
Bromomethane	0.546	0.532		-2.56	20
Chloroethane	0.480	0.473		-1.46	20
Trichlorofluoromethane	1.508	1.482		-1.72	20
1,1,2-Trichlorotrifluoroethane	0.610	0.676		10.82	20
1,1-Dichloroethene	0.560	0.624		11.43	20
Acetone	0.357	0.291		-18.49	20
Carbon Disulfide	1.065	1.106		3.85	20
Methyl tert-butyl Ether	2.187	2.093		-4.3	20
Methyl Acetate	0.922	0.896		-2.82	20
Methylene Chloride	0.671	0.689		2.68	20
trans-1,2-Dichloroethene	0.596	0.625		4.87	20
1,1-Dichloroethane	1.172	1.203	0.1	2.64	20
Cyclohexane	0.946	1.000		5.71	20
2-Butanone	0.508	0.457		-10.04	20
Carbon Tetrachloride	0.482	0.533		10.58	20
cis-1,2-Dichloroethene	0.756	0.755		-0.13	20
Bromochloromethane	0.575	0.553		-3.83	20
Chloroform	1.316	1.265		-3.88	20
1,1,1-Trichloroethane	1.093	1.099		0.55	20
Methylcyclohexane	0.535	0.648		21.12	20
Benzene	1.359	1.529		12.51	20
1,2-Dichloroethane	0.560	0.586		4.64	20
Trichloroethene	0.339	0.388		14.45	20
1,2-Dichloropropane	0.347	0.369		6.34	20
Bromodichloromethane	0.465	0.525		12.9	20
4-Methyl-2-Pentanone	0.556	0.573		3.06	20
Toluene	0.853	0.924		8.32	20
t-1,3-Dichloropropene	0.455	0.517		13.63	20
cis-1,3-Dichloropropene	0.507	0.577		13.81	20
1,1,2-Trichloroethane	0.339	0.374		10.32	20
2-Hexanone	0.403	0.414		2.73	20
Dibromochloromethane	0.326	0.381		16.87	20
1,2-Dibromoethane	0.345	0.385		11.59	20
Tetrachloroethene	0.332	0.378		13.85	20
Chlorobenzene	1.071	1.187	0.3	10.83	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VX044438.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 09:16

Lab File ID: VX044438.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	2.034		9.89	20
m/p-Xylenes	0.679	0.780		14.88	20
o-Xylene	0.687	0.748		8.88	20
Styrene	1.102	1.275		15.7	20
Bromoform	0.219	0.266	0.1	21.46	20
Isopropylbenzene	3.828	4.095		6.97	20
1,1,2,2-Tetrachloroethane	1.329	1.387	0.3	4.36	20
1,3-Dichlorobenzene	1.621	1.811		11.72	20
1,4-Dichlorobenzene	1.667	1.781		6.84	20
1,2-Dichlorobenzene	1.684	1.820		8.08	20
1,2-Dibromo-3-Chloropropane	0.258	0.253		-1.94	20
1,2,4-Trichlorobenzene	0.923	1.098		18.96	20
1,2,3-Trichlorobenzene	0.979	1.140		16.44	20
1,2-Dichloroethane-d4	0.877	0.836		-4.68	20
Dibromofluoromethane	0.346	0.392		13.3	20
Toluene-d8	1.168	1.318		12.84	20
4-Bromofluorobenzene	0.408	0.454		11.27	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Sample Results: **VX044438.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.544	168	136445	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	226018	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.055	117	197543	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95339	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.952	65	114063	47.679 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.360%		
35) Dibromofluoromethane	5.379	113	88578	56.586 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.180%		
50) Toluene-d8	8.647	98	297779	56.385 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 112.780%		
62) 4-Bromofluorobenzene	11.079	95	102676	55.640 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.280%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	116500	55.219 ug/l	95
3) Chloromethane	1.294	50	106640	52.856 ug/l	99
4) Vinyl Chloride	1.374	62	108930	51.825 ug/l	96
5) Bromomethane	1.593	94	72530	48.640 ug/l	100
6) Chloroethane	1.666	64	64589	49.350 ug/l	100
7) Trichlorofluoromethane	1.867	101	202222	49.144 ug/l	98
8) Diethyl Ether	2.136	74	65414	46.573 ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	92304	55.436 ug/l	97
10) Methyl Iodide	2.441	142	117927	53.737 ug/l	96
11) Tert butyl alcohol	2.995	59	69873	207.237 ug/l	99
12) 1,1-Dichloroethene	2.306	96	85110	55.650 ug/l	93
13) Acrolein	2.239	56	105437	216.034 ug/l	99
14) Allyl chloride	2.654	41	131432	51.595 ug/l	96
15) Acrylonitrile	3.069	53	228880	245.064 ug/l	99
16) Acetone	2.386	43	198245	203.262 ug/l	97
17) Carbon Disulfide	2.502	76	150886	51.902 ug/l	100
18) Methyl Acetate	2.703	43	122242	48.611 ug/l	97
19) Methyl tert-butyl Ether	3.111	73	285547	47.845 ug/l	98
20) Methylene Chloride	2.782	84	94061	51.347 ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	85292	52.474 ug/l	96
22) Diisopropyl ether	3.764	45	281255	49.031 ug/l	95
23) Vinyl Acetate	3.721	43	1209209	259.287 ug/l	99
24) 1,1-Dichloroethane	3.605	63	164103	51.322 ug/l	98
25) 2-Butanone	4.562	43	312065	225.066 ug/l	97
26) 2,2-Dichloropropane	4.471	77	135023	51.979 ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	103072	49.931 ug/l	97
28) Bromochloromethane	4.891	49	75463	48.128 ug/l	100
29) Tetrahydrofuran	5.001	42	202559	227.599 ug/l	99
30) Chloroform	5.086	83	172568	48.035 ug/l	98
31) Cyclohexane	5.458	56	136432	52.839 ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	149993	50.298 ug/l	99
36) 1,1-Dichloropropene	5.684	75	111706	55.205 ug/l	98
37) Ethyl Acetate	4.715	43	125607	50.217 ug/l	99
38) Carbon Tetrachloride	5.672	117	120478	55.304 ug/l	96
39) Methylcyclohexane	7.373	83	146379	60.512 ug/l	97
40) Benzene	6.031	78	345635	56.259 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	66821	50.310	ug/l		96
42) 1,2-Dichloroethane	6.080	62	132516	52.362	ug/l		97
43) Isopropyl Acetate	6.342	43	199677	51.076	ug/l		98
44) Trichloroethene	7.117	130	87763	57.285	ug/l		98
45) 1,2-Dichloropropane	7.427	63	83393	53.131	ug/l		98
46) Dibromomethane	7.580	93	67796	55.676	ug/l		95
47) Bromodichloromethane	7.818	83	118614	56.402	ug/l		100
48) Methyl methacrylate	7.690	41	94040	49.554	ug/l		95
49) 1,4-Dioxane	7.665	88	28510	906.120	ug/l	#	82
51) 4-Methyl-2-Pentanone	8.574	43	647258	257.494	ug/l		99
52) Toluene	8.714	92	208798	54.120	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	116841	51.640	ug/l		95
54) cis-1,3-Dichloropropene	8.360	75	130320	56.913	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	84487	55.124	ug/l		98
56) Ethyl methacrylate	9.116	69	130175	53.800	ug/l		98
57) 1,3-Dichloropropane	9.305	76	143590	53.824	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	307620	252.070	ug/l		99
59) 2-Hexanone	9.427	43	467347	256.860	ug/l		97
60) Dibromochloromethane	9.519	129	86207	52.901	ug/l		99
61) 1,2-Dibromoethane	9.604	107	86930	55.721	ug/l		99
64) Tetrachloroethene	9.269	164	74735	57.001	ug/l		96
65) Chlorobenzene	10.079	112	234513	55.402	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	77487	56.959	ug/l		98
67) Ethyl Benzene	10.189	91	401792	54.936	ug/l		99
68) m/p-Xylenes	10.299	106	308013	114.771	ug/l		94
69) o-Xylene	10.640	106	147688	54.389	ug/l		98
70) Styrene	10.653	104	251875	57.862	ug/l		96
71) Bromoform	10.799	173	52602	54.671	ug/l	#	98
73) Isopropylbenzene	10.957	105	390438	53.495	ug/l		100
74) N-amyl acetate	10.842	43	171638	50.885	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	132190	52.145	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	107800m	50.641	ug/l		
77) Bromobenzene	11.195	156	95489	53.953	ug/l		95
78) n-propylbenzene	11.299	91	441589	54.741	ug/l		98
79) 2-Chlorotoluene	11.360	91	267690	51.311	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	322510	53.284	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	35051	47.498	ug/l		98
82) 4-Chlorotoluene	11.451	91	305777	52.929	ug/l		99
83) tert-Butylbenzene	11.713	119	320615	53.600	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	327657	55.123	ug/l		98
85) sec-Butylbenzene	11.890	105	399310	54.989	ug/l		99
86) p-Isopropyltoluene	12.006	119	336593	55.691	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	172628	55.839	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	169778	53.422	ug/l		98
89) n-Butylbenzene	12.329	91	292244	57.503	ug/l		99
90) Hexachloroethane	12.536	117	50629	57.385	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	173478	54.042	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	24124	49.022	ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	104720	59.504	ug/l		100
94) Hexachlorobutadiene	13.725	225	43140	60.942	ug/l		97
95) Naphthalene	13.774	128	369385	53.772	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	108667	58.216	ug/l		99

Sample Results: **VX044438.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

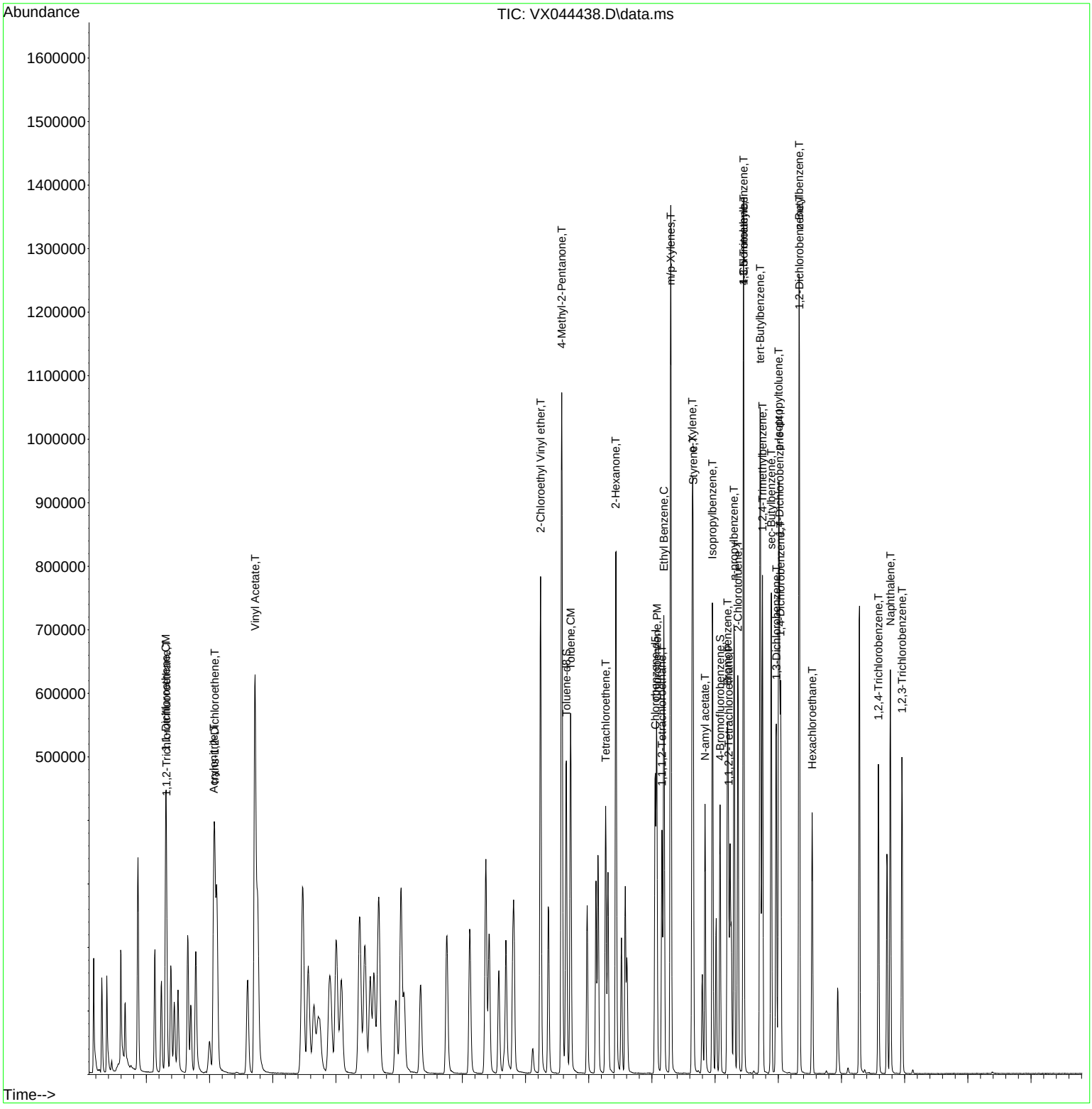
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

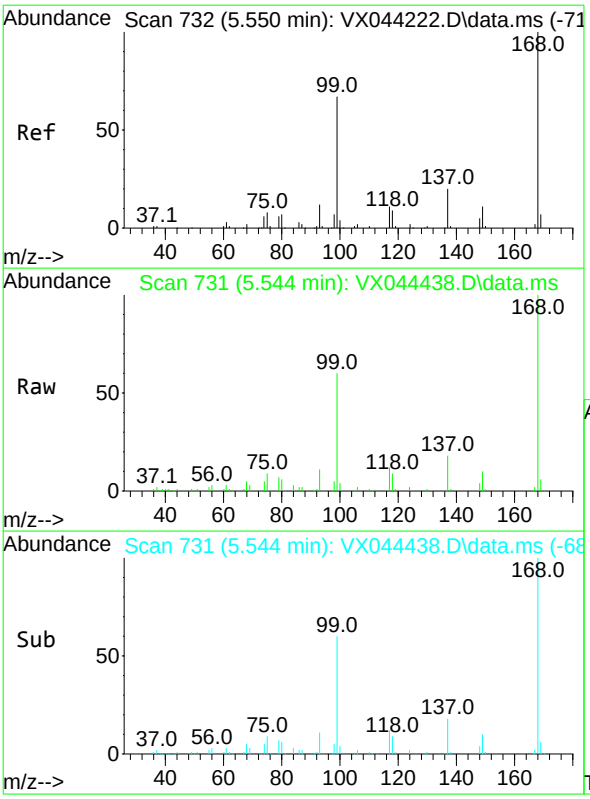
Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

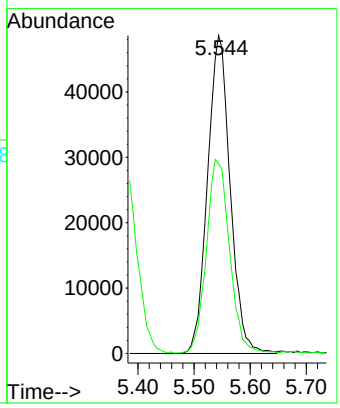




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:168 Resp: 136445

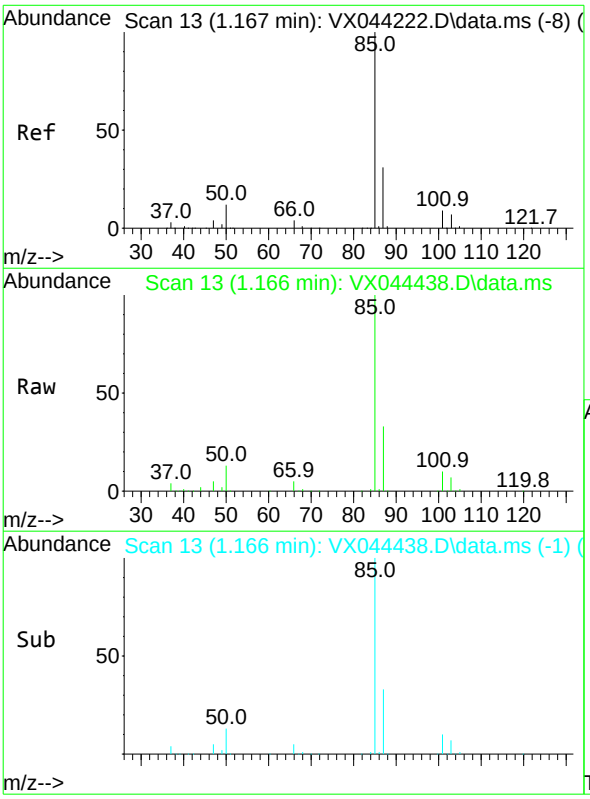
Ion	Ratio	Lower	Upper
168	100		
99	59.5	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

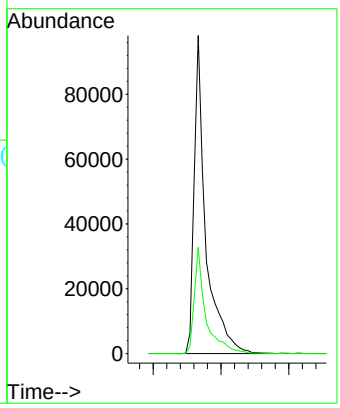
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

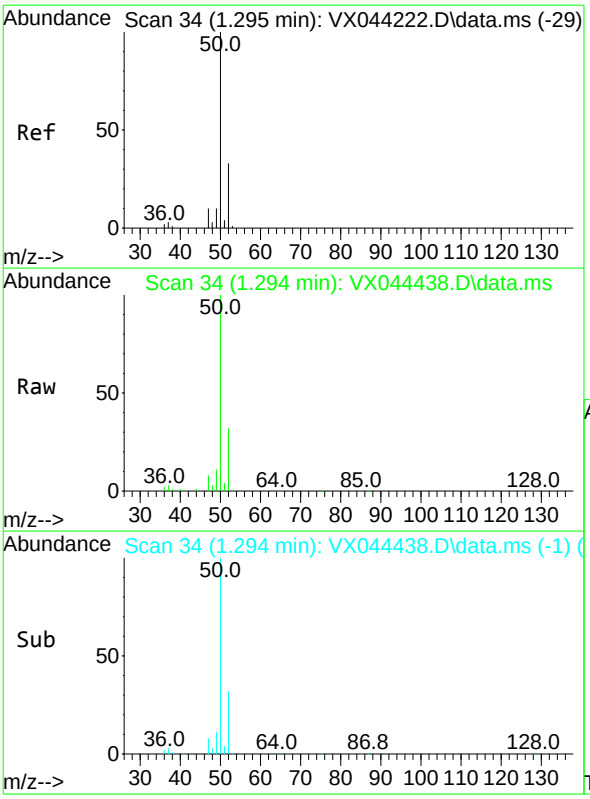


#2
Dichlorodifluoromethane
Concen: 55.219 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 85 Resp: 116500

Ion	Ratio	Lower	Upper
85	100		
87	33.4	15.4	46.4

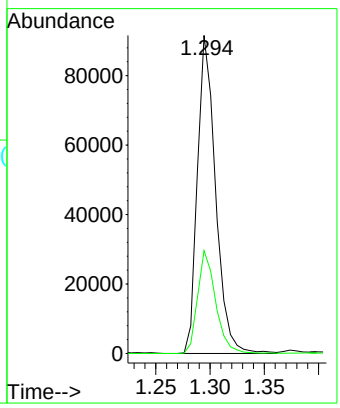




#3
Chloromethane
Concen: 52.856 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 50 Resp: 106640

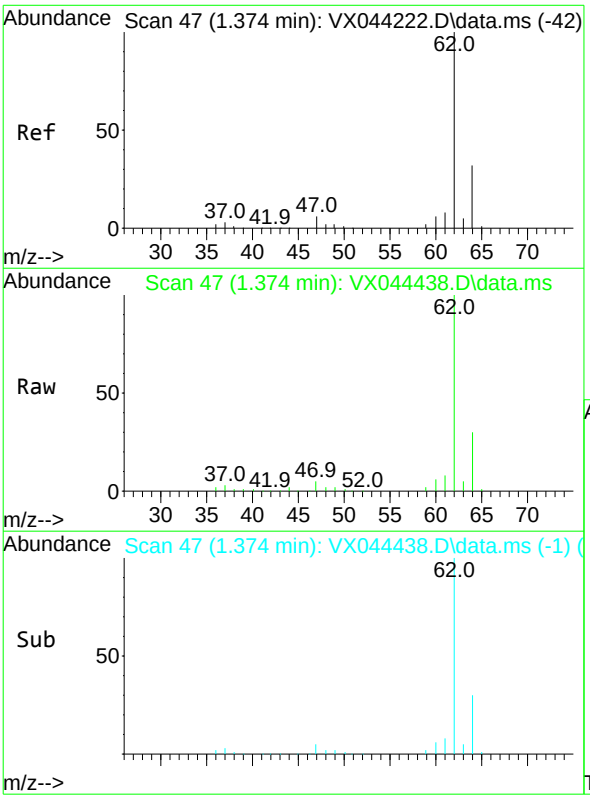
Ion	Ratio	Lower	Upper
50	100		
52	32.3	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

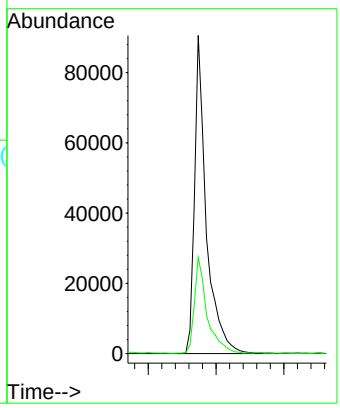
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

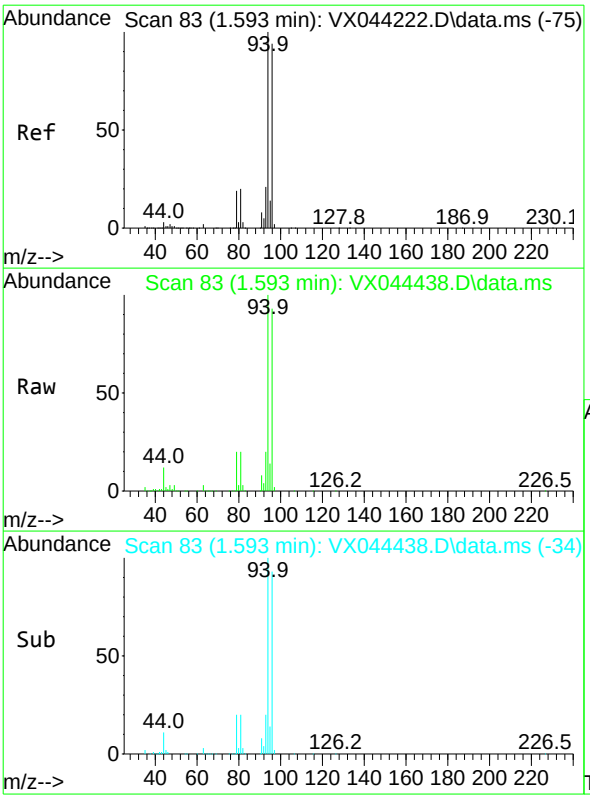


#4
Vinyl Chloride
Concen: 51.825 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 62 Resp: 108930

Ion	Ratio	Lower	Upper
62	100		
64	30.1	25.7	38.5

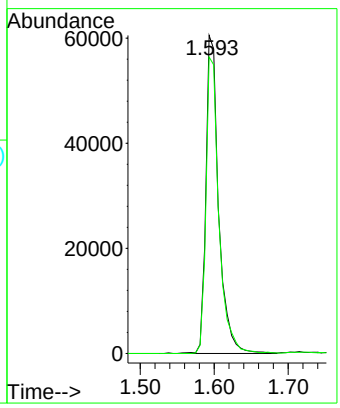




#5
Bromomethane
Concen: 48.640 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 94 Resp: 72530

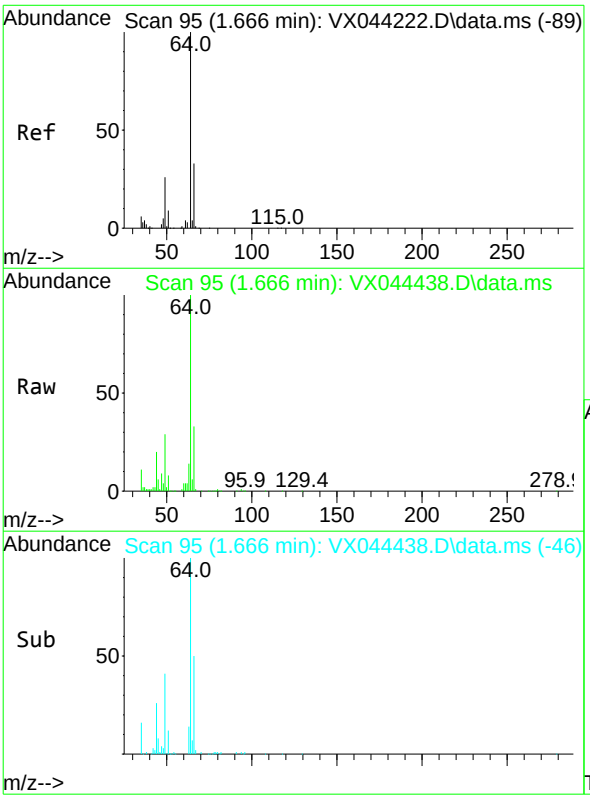
Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

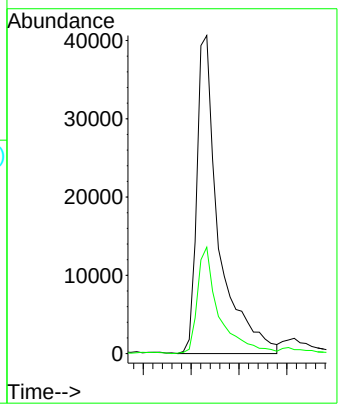
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

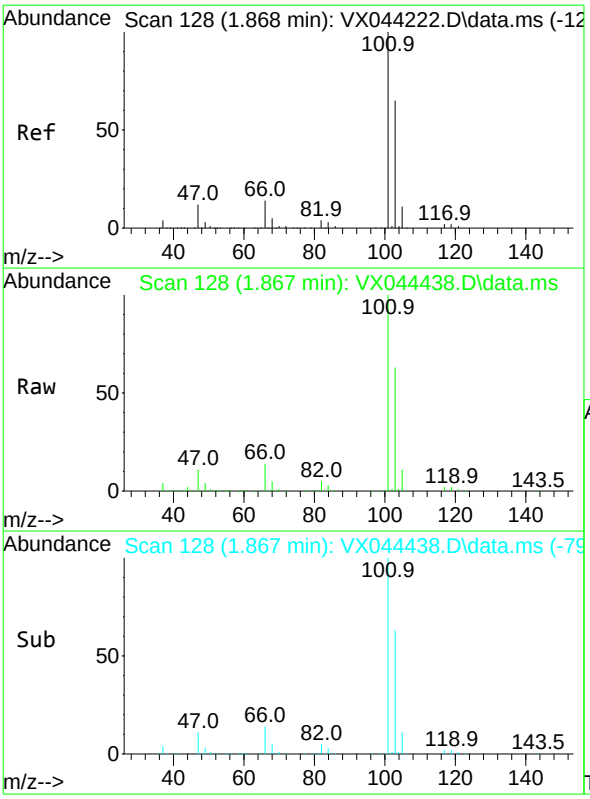


#6
Chloroethane
Concen: 49.350 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 64 Resp: 64589

Ion	Ratio	Lower	Upper
64	100		
66	33.3	26.6	39.8





#7
Trichlorofluoromethane
Concen: 49.144 ug/l
RT: 1.867 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

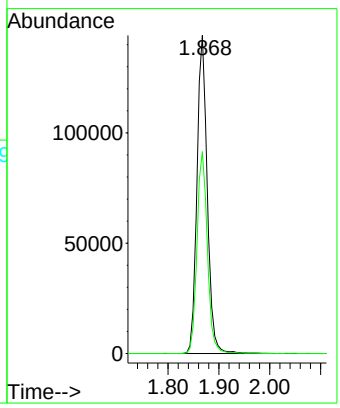
Tgt Ion:101 Resp: 202222

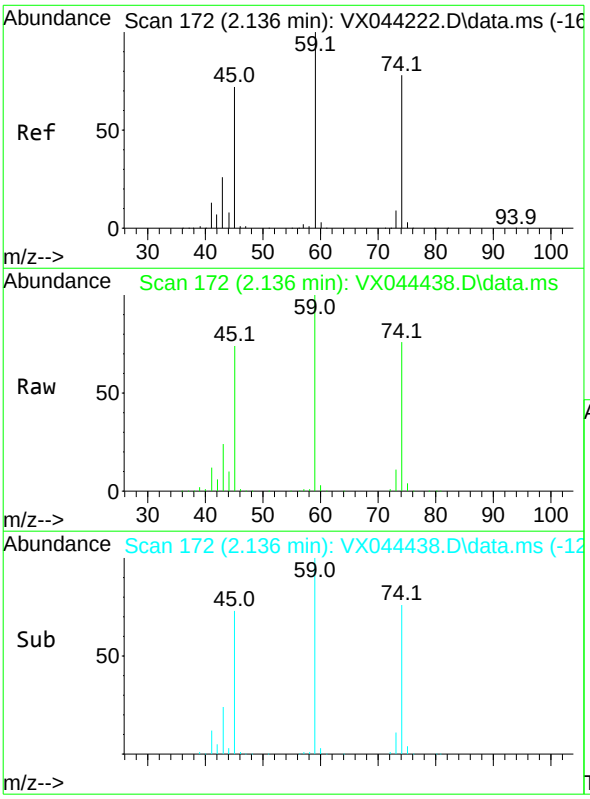
Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.8	77.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

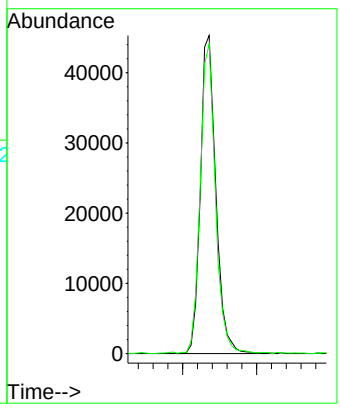


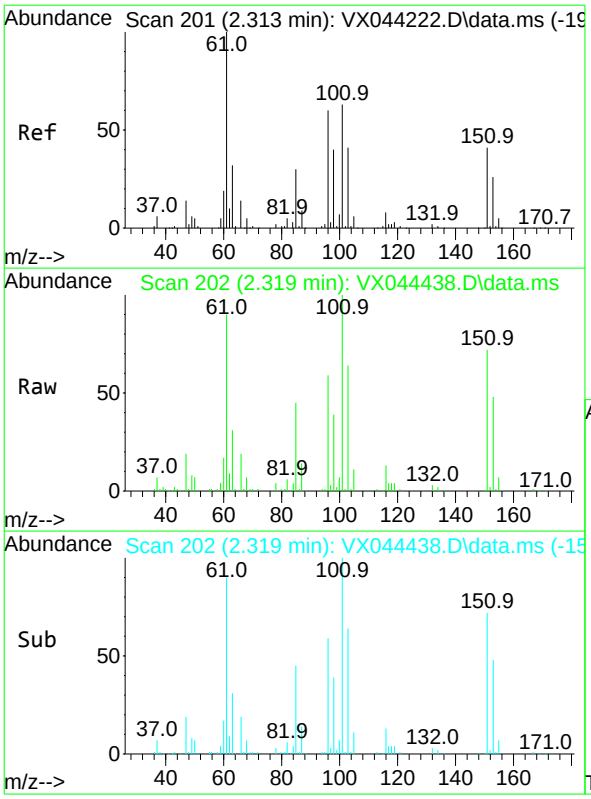


#8
Diethyl Ether
Concen: 46.573 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 74 Resp: 65414

Ion	Ratio	Lower	Upper
74	100		
45	96.6	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.436 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

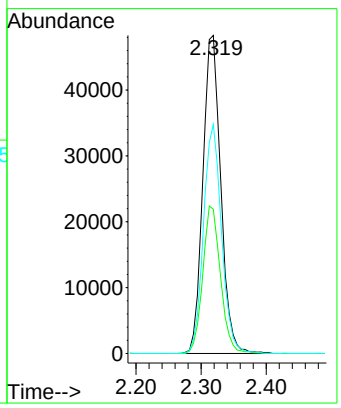
Tgt Ion:101 Resp: 92304

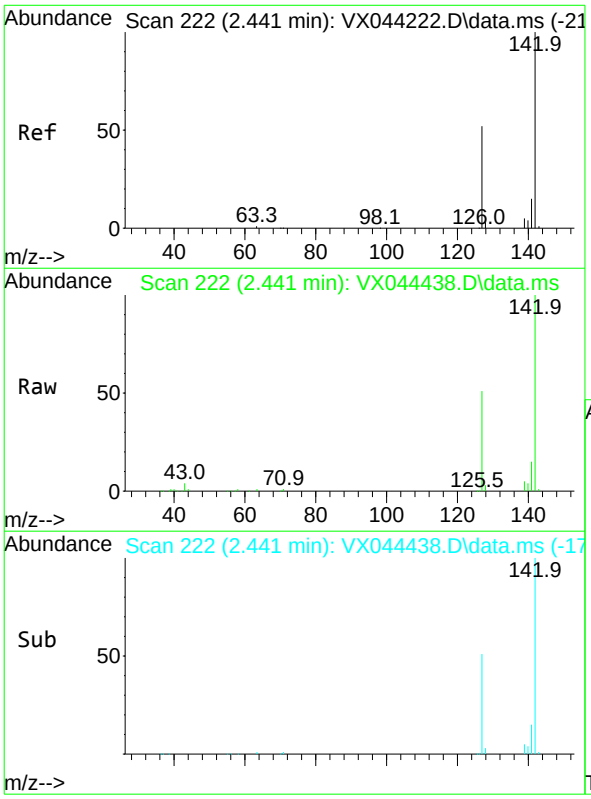
Ion	Ratio	Lower	Upper
101	100		
85	46.0	38.5	57.7
151	72.5	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

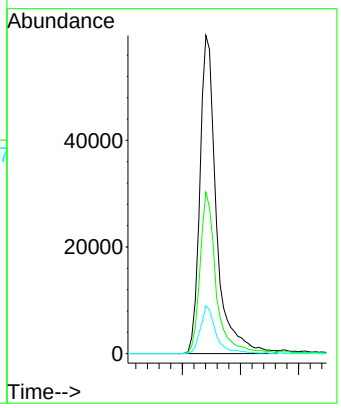


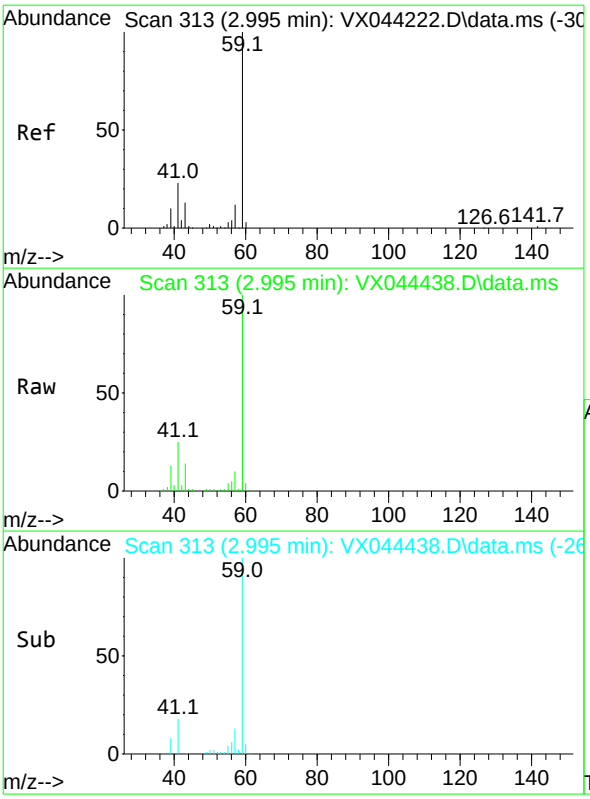


#10
Methyl Iodide
Concen: 53.737 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:142 Resp: 117927

Ion	Ratio	Lower	Upper
142	100		
127	49.2	41.8	62.8
141	14.2	11.5	17.3

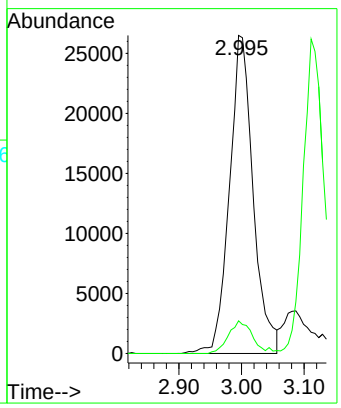




#11
Tert butyl alcohol
Concen: 207.237 ug/l
RT: 2.995 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 59 Resp: 69873

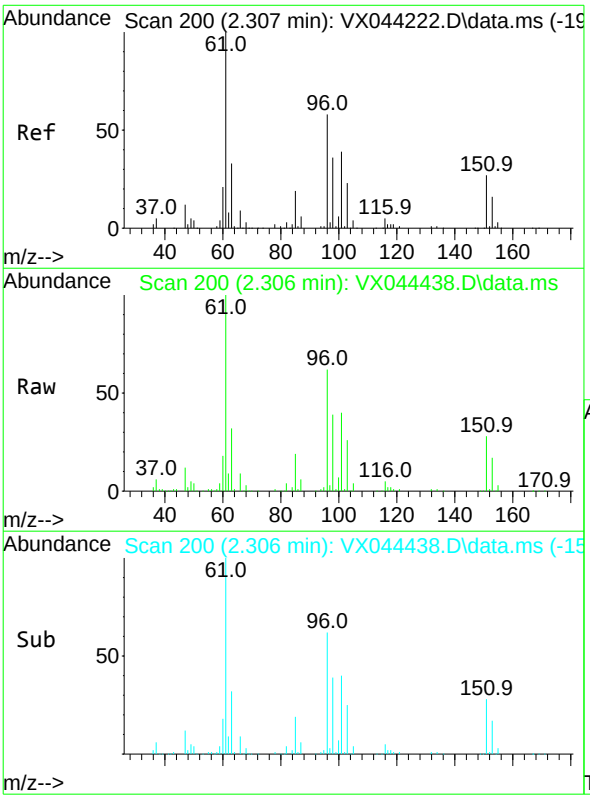
Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

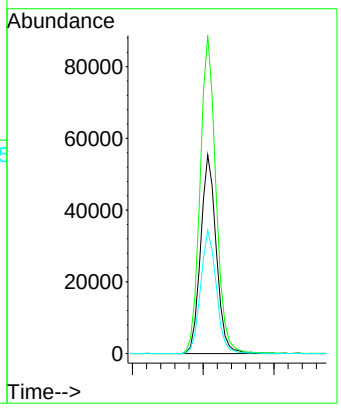
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

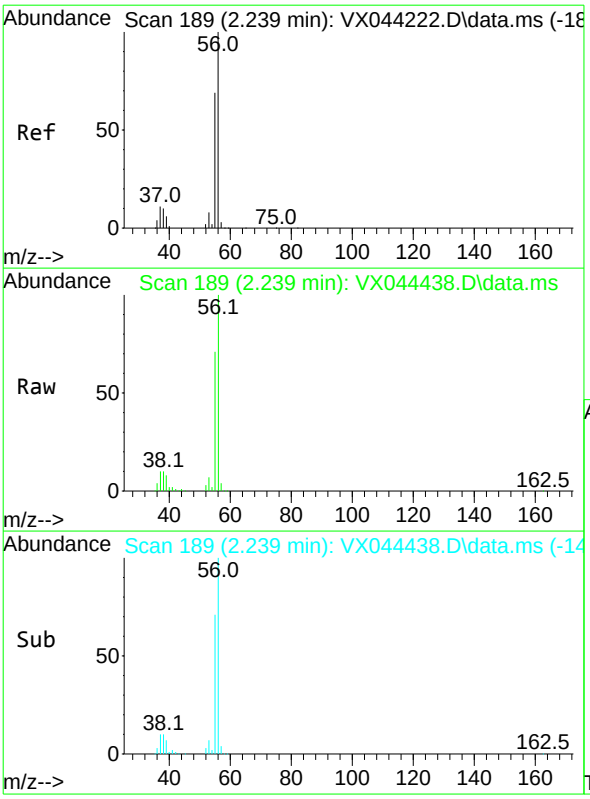


#12
1,1-Dichloroethene
Concen: 55.650 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 96 Resp: 85110

Ion	Ratio	Lower	Upper
96	100		
61	160.0	138.0	207.0
98	62.0	50.0	75.0

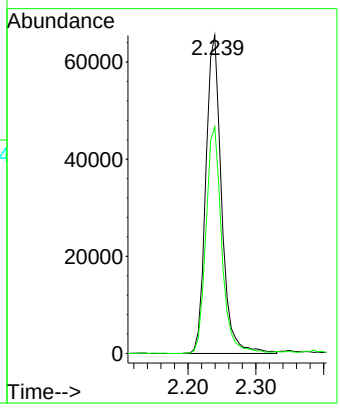




#13
Acrolein
Concen: 216.034 ug/l
RT: 2.239 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 56 Resp: 105437

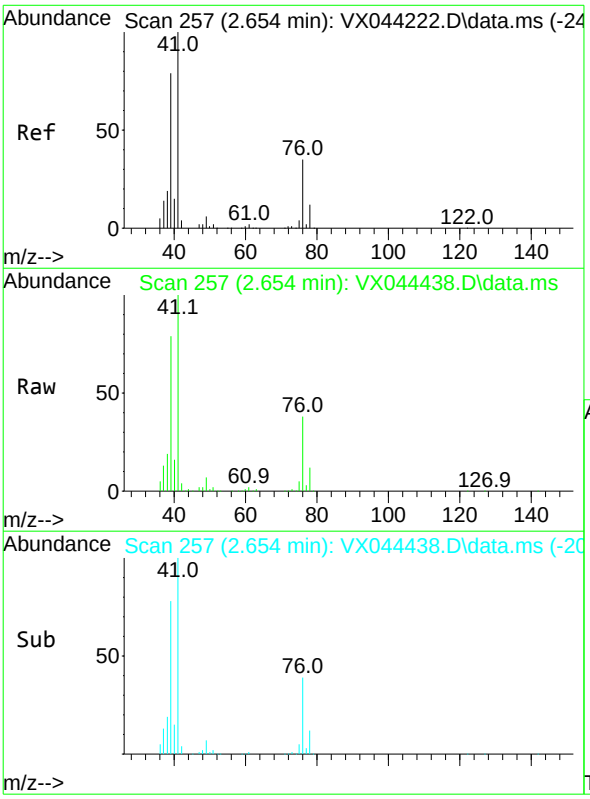
Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

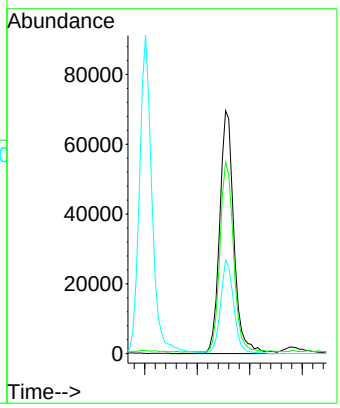
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

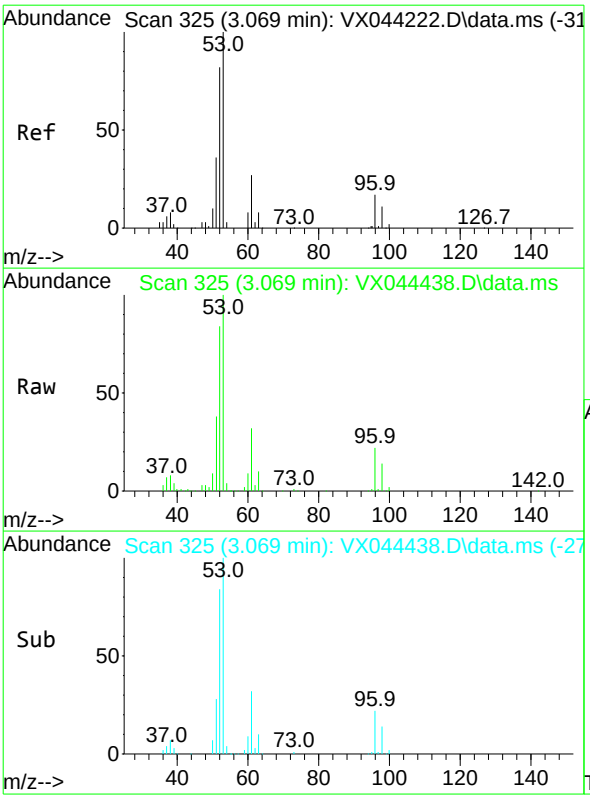


#14
Allyl chloride
Concen: 51.595 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 41 Resp: 131432

Ion	Ratio	Lower	Upper
41	100		
39	73.8	61.9	92.9
76	35.5	27.4	41.2

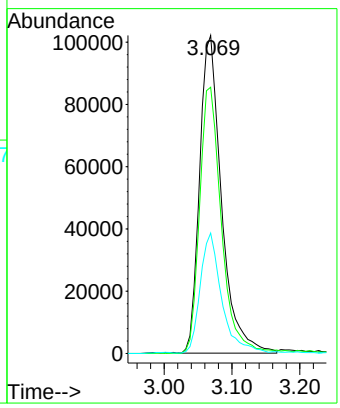




#15
Acrylonitrile
Concen: 245.064 ug/l
RT: 3.069 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 53 Resp: 228880

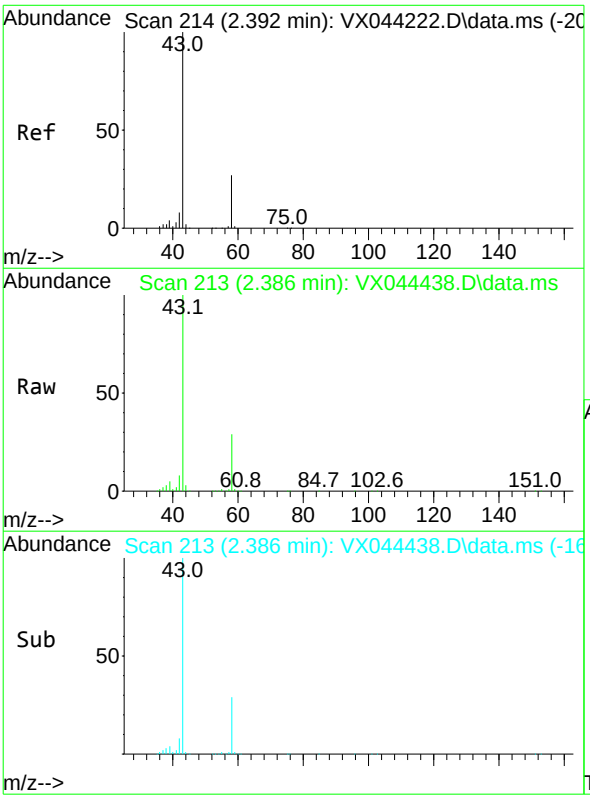
Ion	Ratio	Lower	Upper
53	100		
52	83.6	67.4	101.0
51	37.1	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

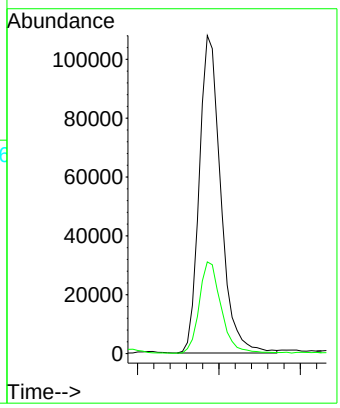
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

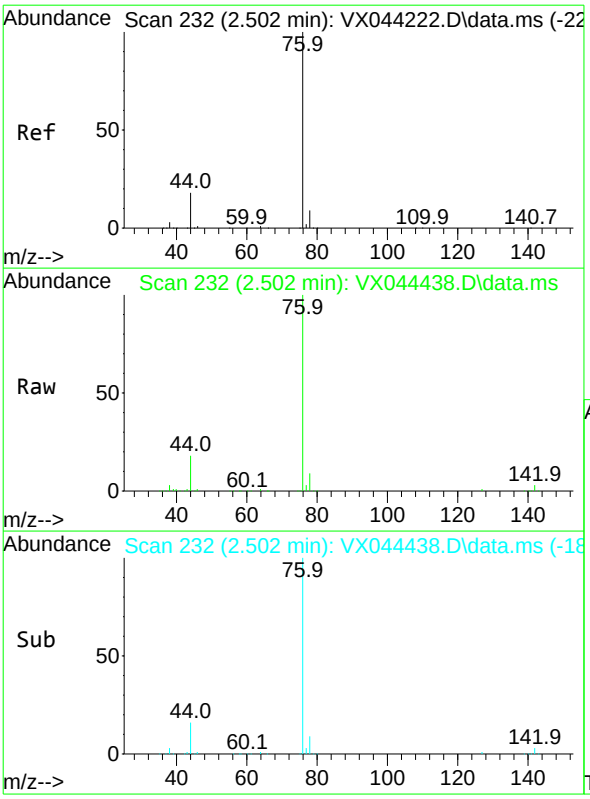


#16
Acetone
Concen: 203.262 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 198245

Ion	Ratio	Lower	Upper
43	100		
58	28.7	21.6	32.4

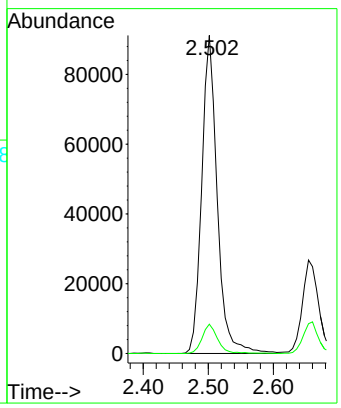




#17
Carbon Disulfide
Concen: 51.902 ug/l
RT: 2.502 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 76 Resp: 150886

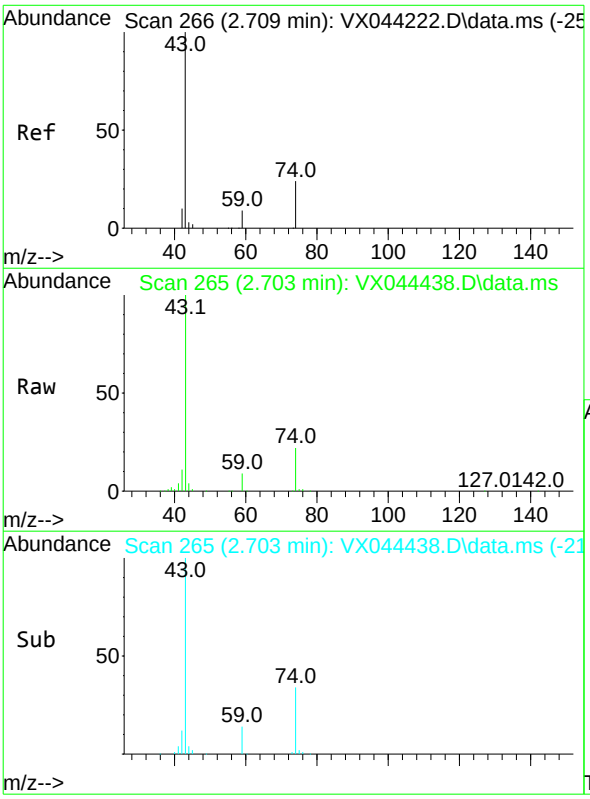
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

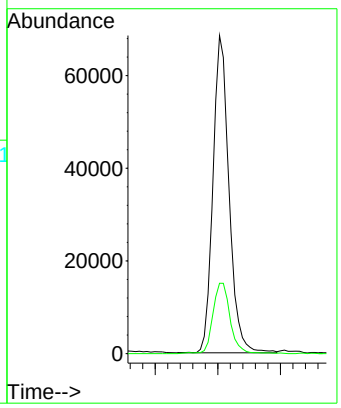
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

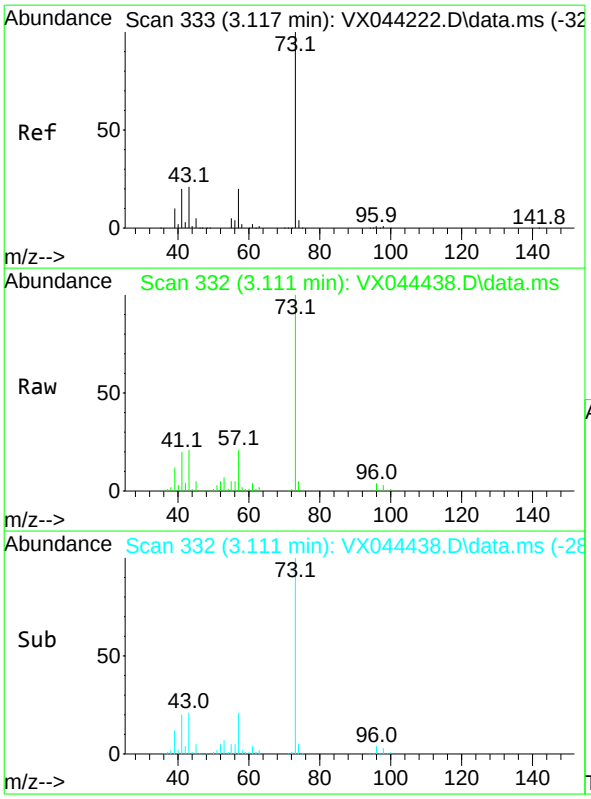


#18
Methyl Acetate
Concen: 48.611 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 122242

Ion	Ratio	Lower	Upper
43	100		
74	23.7	17.7	26.5

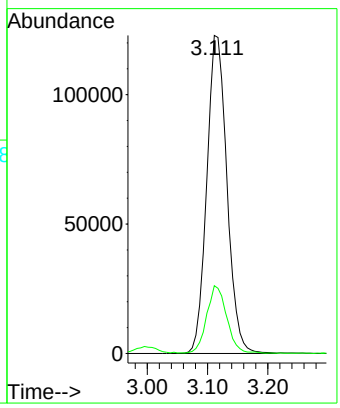




#19
Methyl tert-butyl Ether
Concen: 47.845 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 73 Resp: 285547

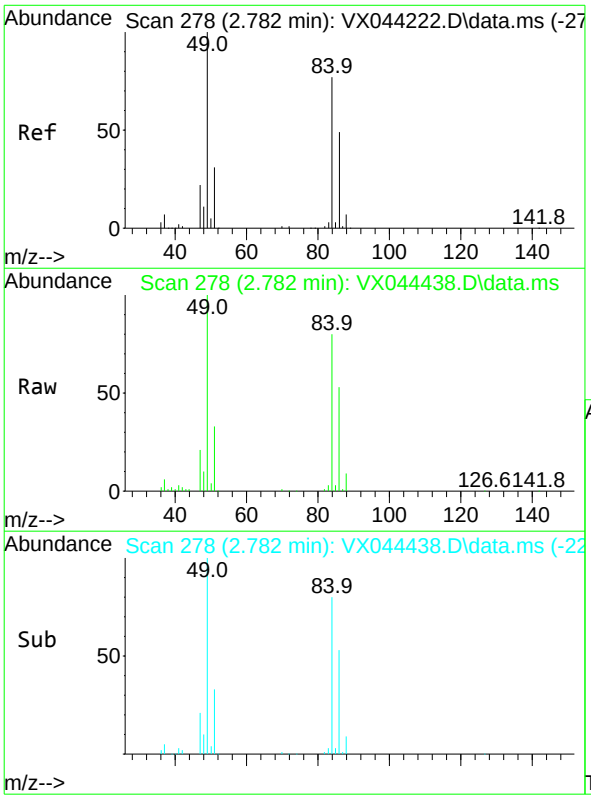
Ion	Ratio	Lower	Upper
73	100		
57	21.2	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

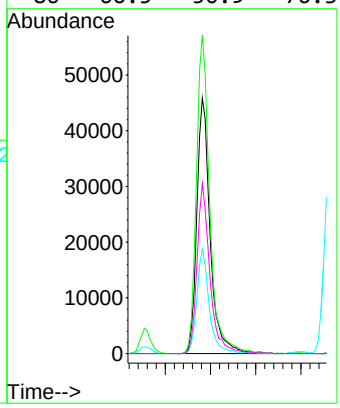
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

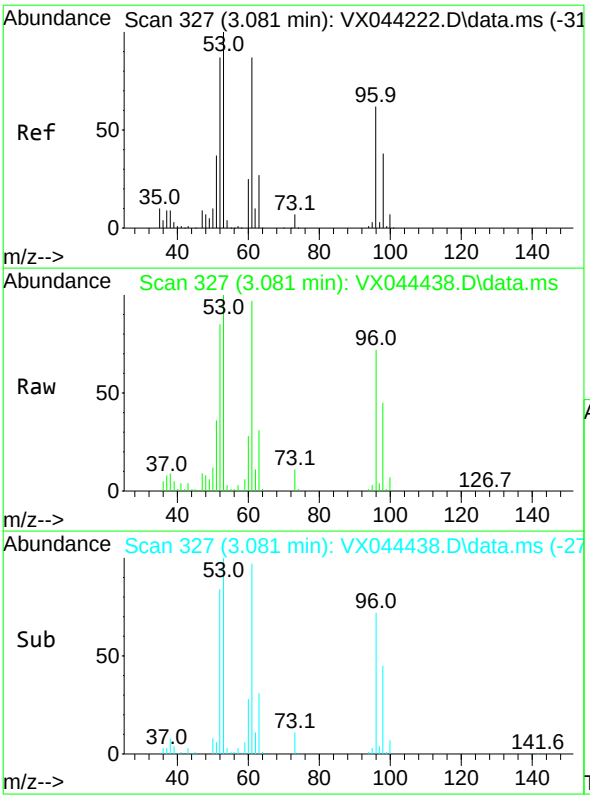


#20
Methylene Chloride
Concen: 51.347 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 84 Resp: 94061

Ion	Ratio	Lower	Upper
84	100		
49	124.4	104.2	156.4
51	40.9	32.2	48.4
86	66.5	50.9	76.3





#21
trans-1,2-Dichloroethene
Concen: 52.474 ug/l
RT: 3.081 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

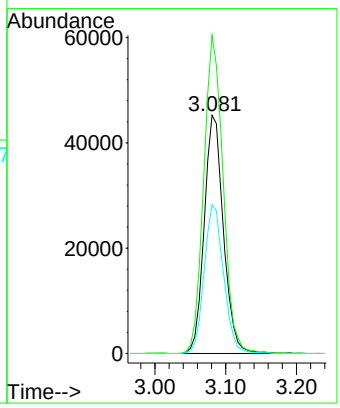
Tgt Ion: 96 Resp: 85292

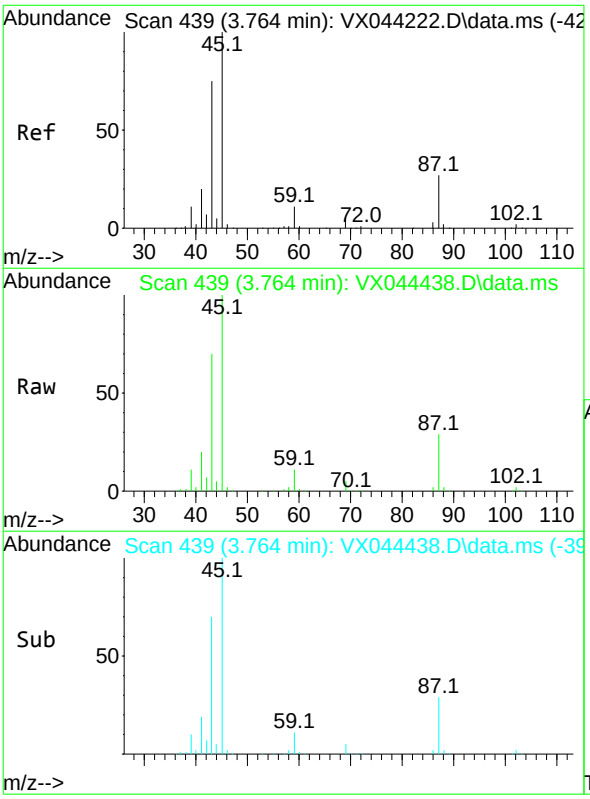
Ion	Ratio	Lower	Upper
96	100		
61	133.6	112.0	168.0
98	62.5	48.8	73.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

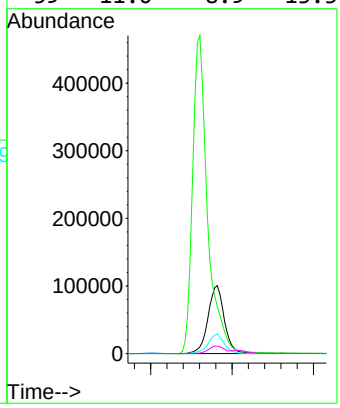


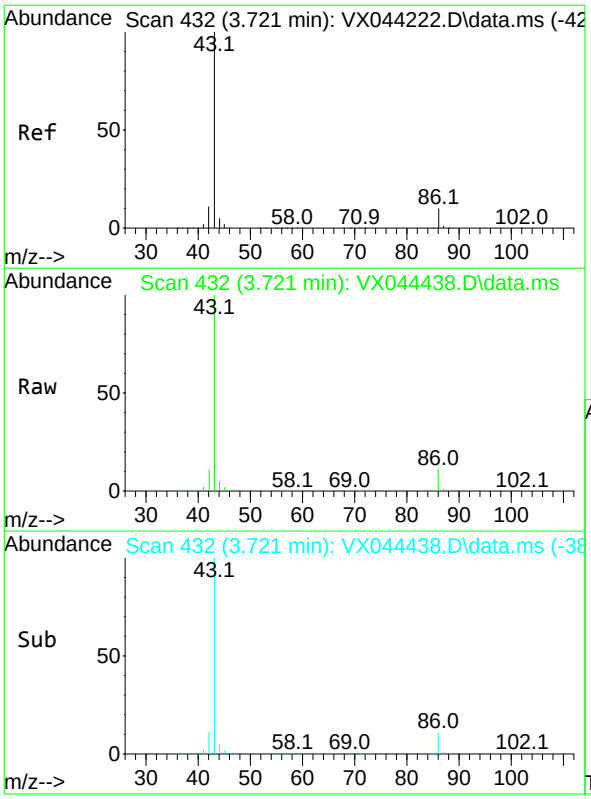


#22
Diisopropyl ether
Concen: 49.031 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 45 Resp: 281255

Ion	Ratio	Lower	Upper
45	100		
43	69.9	60.2	90.2
87	28.8	21.2	31.8
59	11.0	8.9	13.3





#23
Vinyl Acetate
Concen: 259.287 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

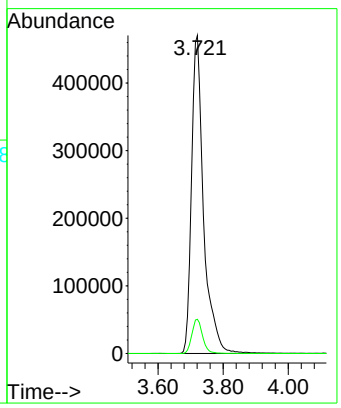
Tgt Ion: 43 Resp: 1209209

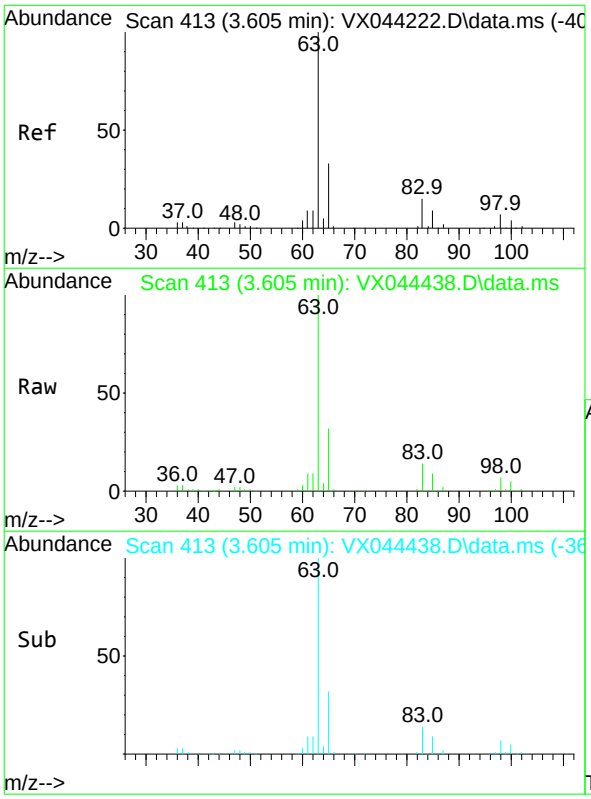
Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.2	12.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

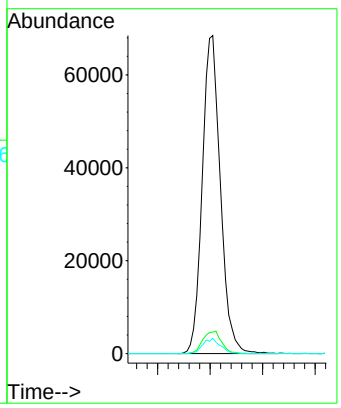


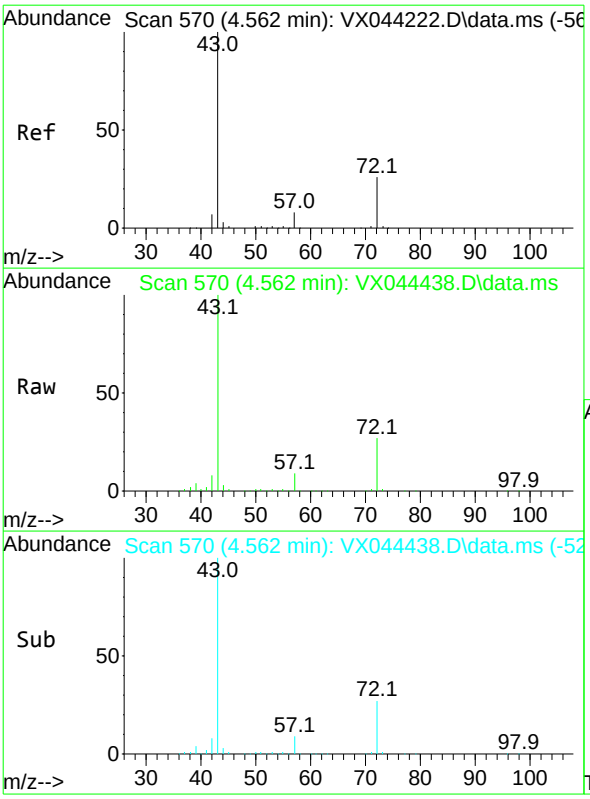


#24
1,1-Dichloroethane
Concen: 51.322 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 63 Resp: 164103

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.6	10.8
100	4.8	2.1	6.3

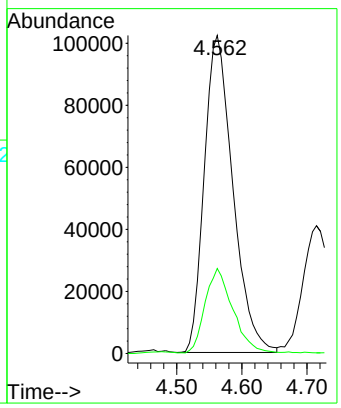




#25
2-Butanone
Concen: 225.066 ug/l
RT: 4.562 min Scan# 57
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 312065

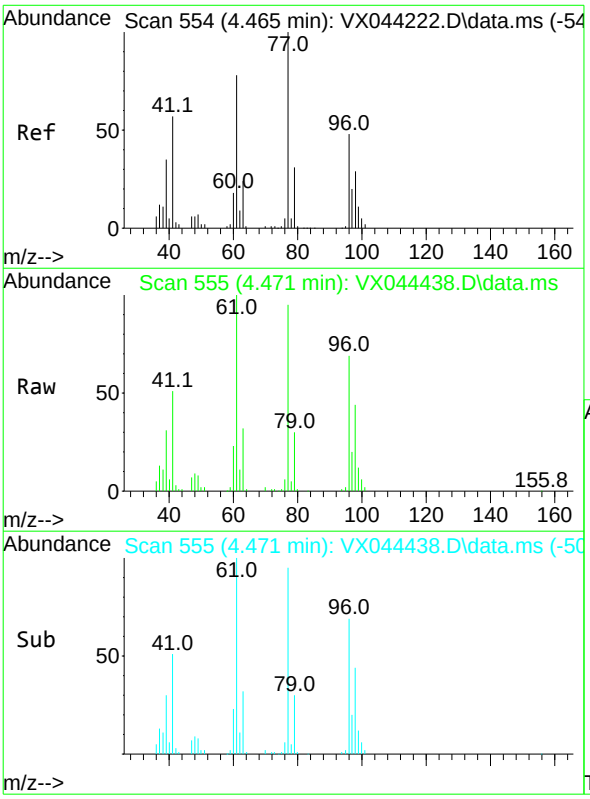
Ion	Ratio	Lower	Upper
43	100		
72	26.6	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

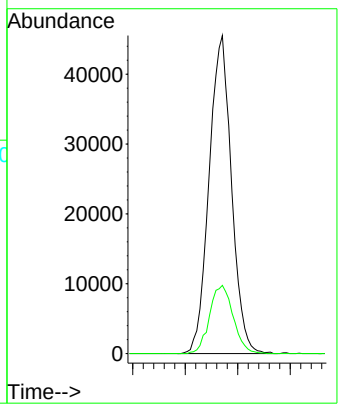
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

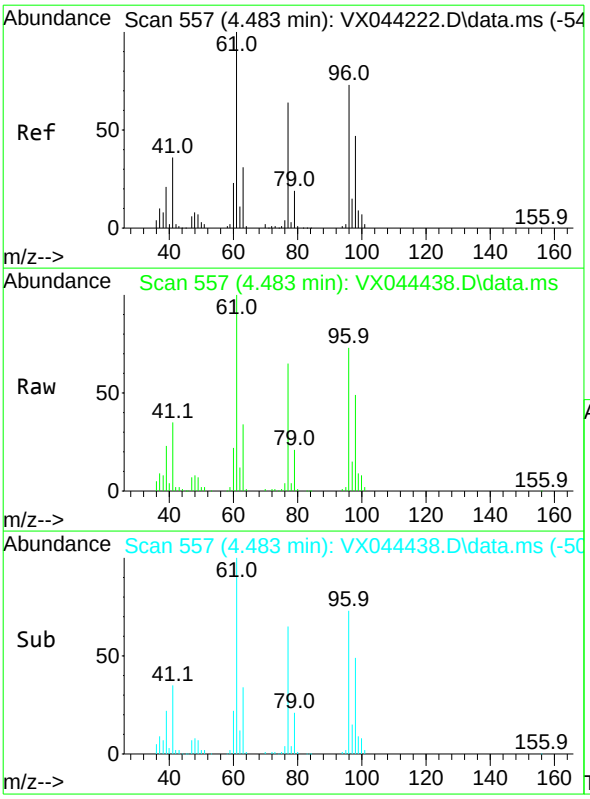


#26
2,2-Dichloropropane
Concen: 51.979 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 77 Resp: 135023

Ion	Ratio	Lower	Upper
77	100		
97	22.6	10.7	32.1

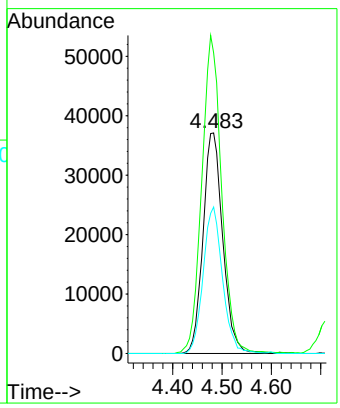




#27
cis-1,2-Dichloroethene
Concen: 49.931 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 96 Resp: 103072

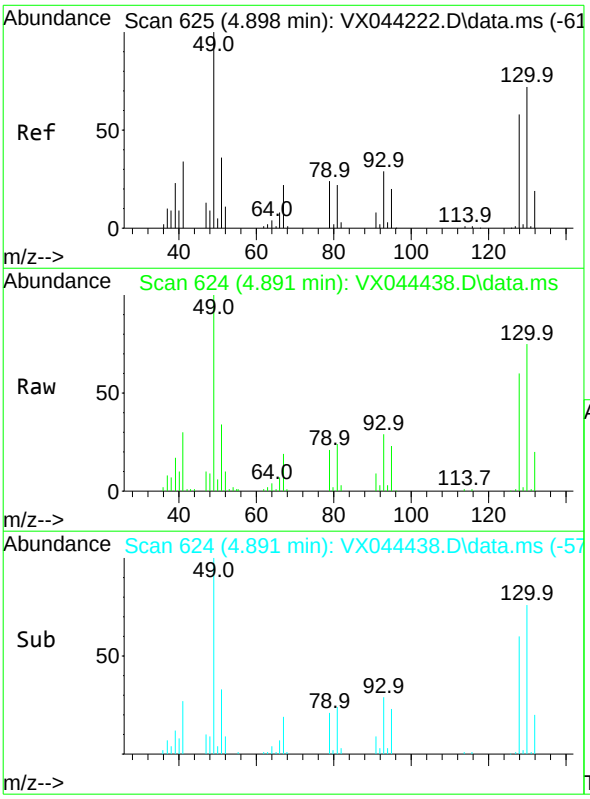
Ion	Ratio	Lower	Upper
96	100		
61	144.7	0.0	299.0
98	65.2	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

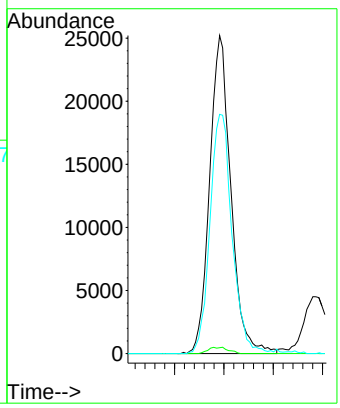
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

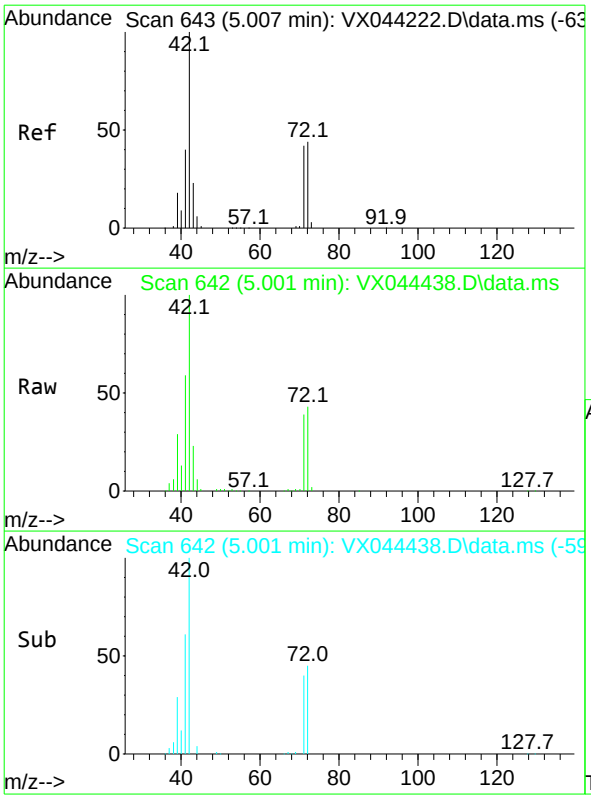


#28
Bromochloromethane
Concen: 48.128 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 49 Resp: 75463

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.2
130	78.0	62.1	93.1

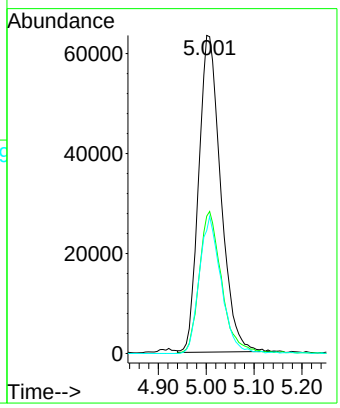




#29
Tetrahydrofuran
Concen: 227.599 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 42 Resp: 202559

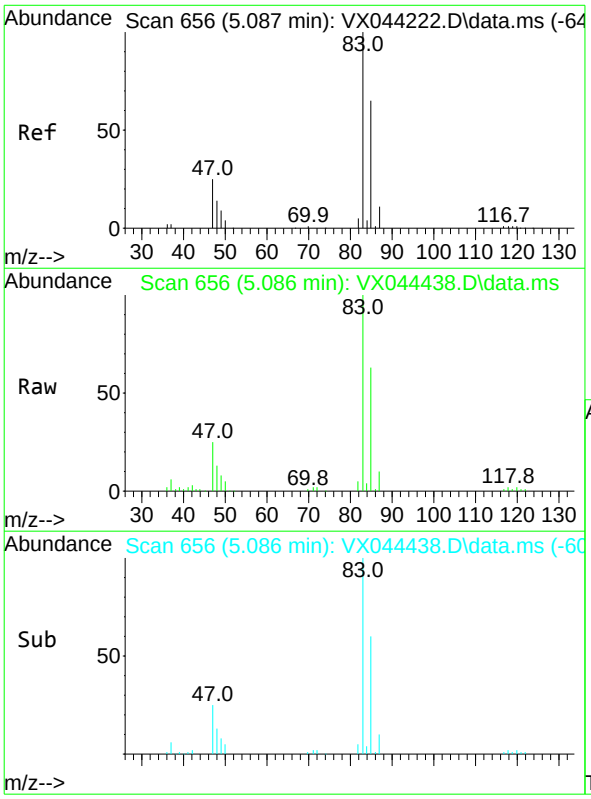
Ion	Ratio	Lower	Upper
42	100		
72	45.7	37.0	55.6
71	42.9	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

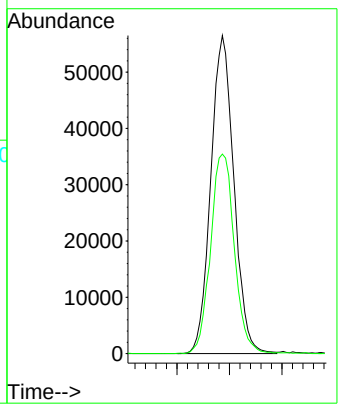
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

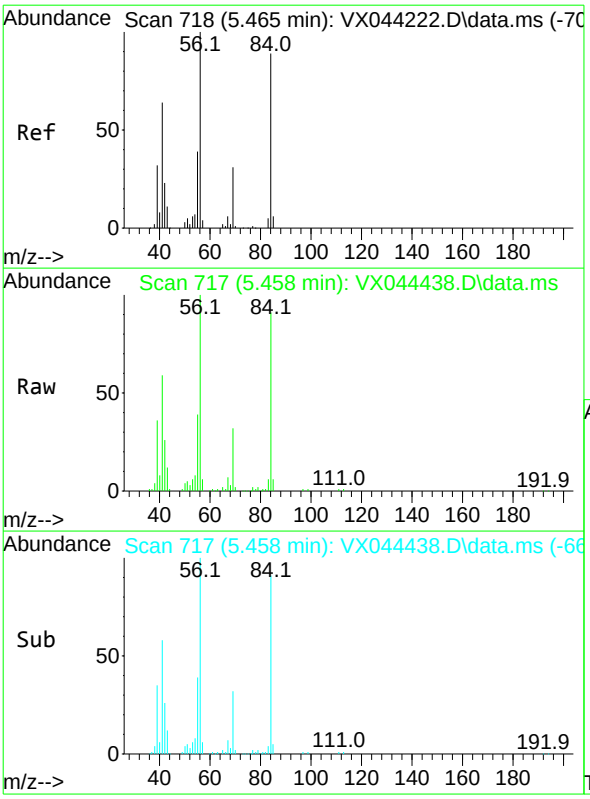


#30
Chloroform
Concen: 48.035 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 83 Resp: 172568

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.6	77.4





#31
Cyclohexane
Concen: 52.839 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

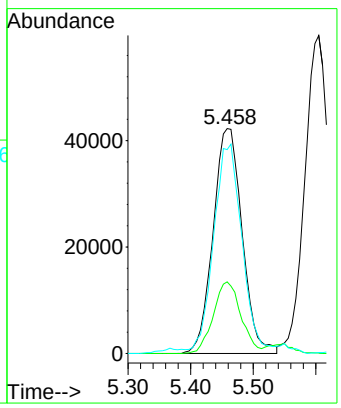
Tgt Ion: 56 Resp: 136432

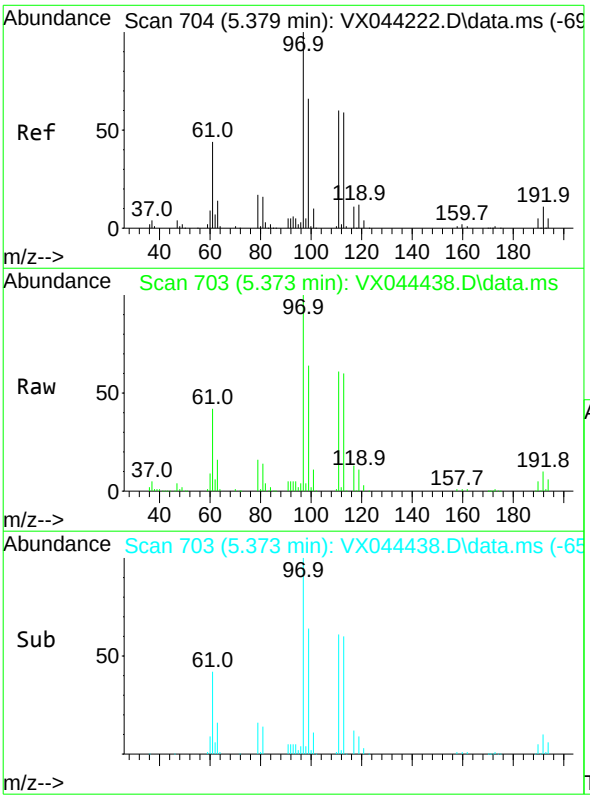
Ion	Ratio	Lower	Upper
56	100		
69	31.9	24.7	37.1
84	89.0	71.0	106.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

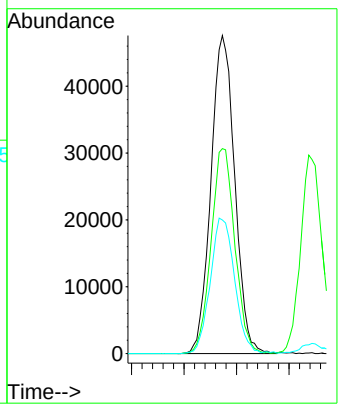


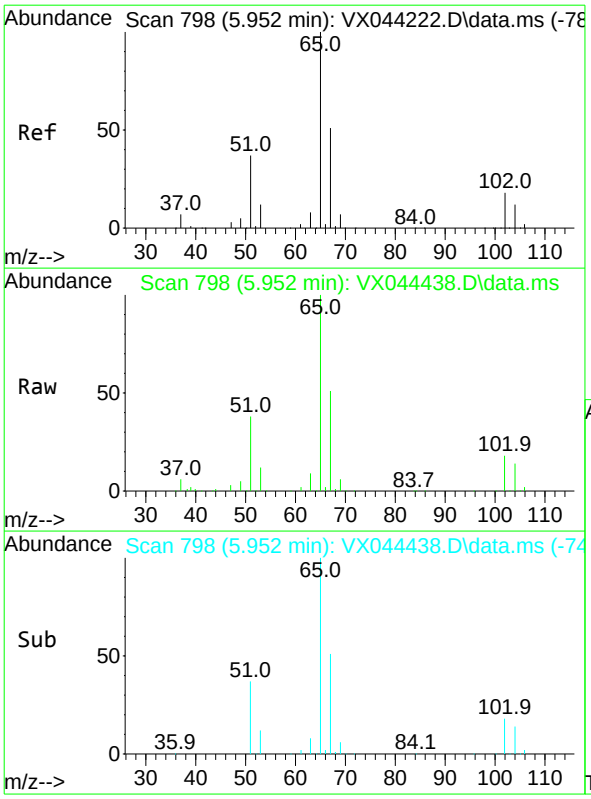


#32
1,1,1-Trichloroethane
Concen: 50.298 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 97 Resp: 149993

Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.8	76.2
61	43.5	35.2	52.8

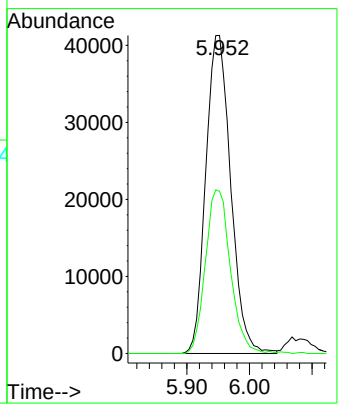




#33
1,2-Dichloroethane-d4
Concen: 47.679 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 65 Resp: 114063

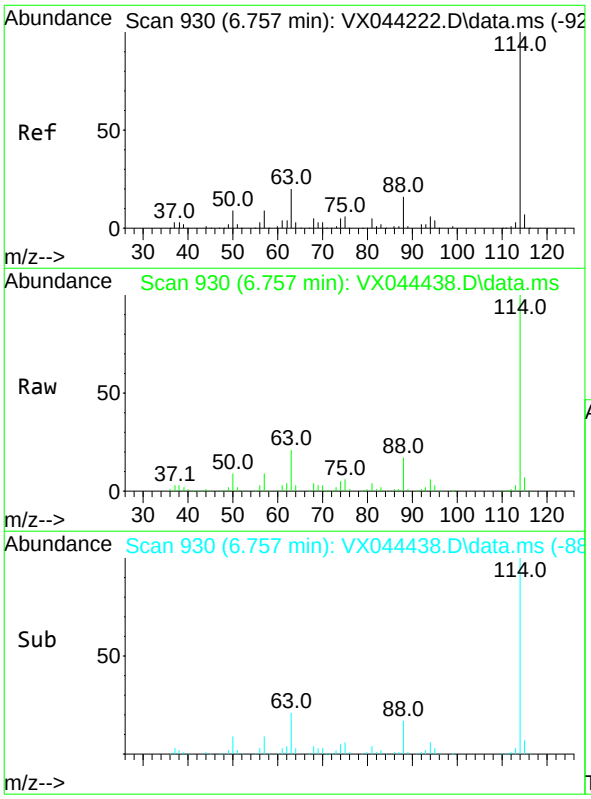
Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

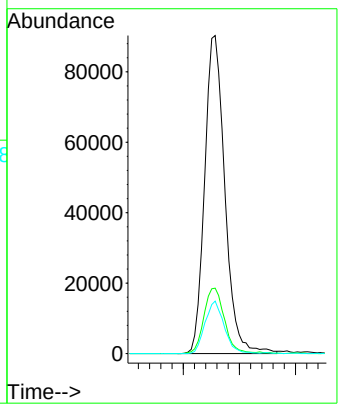
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

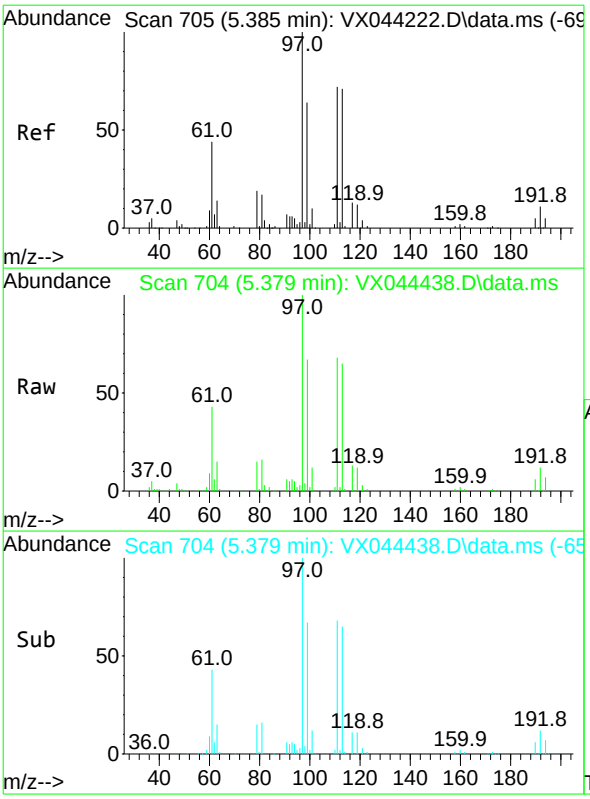


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:114 Resp: 226018

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.6
88	16.5	0.0	31.8

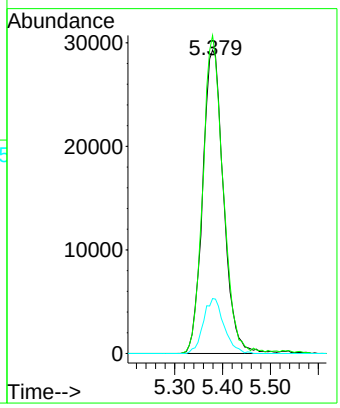




#35
Dibromofluoromethane
Concen: 56.586 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:113 Resp: 88578

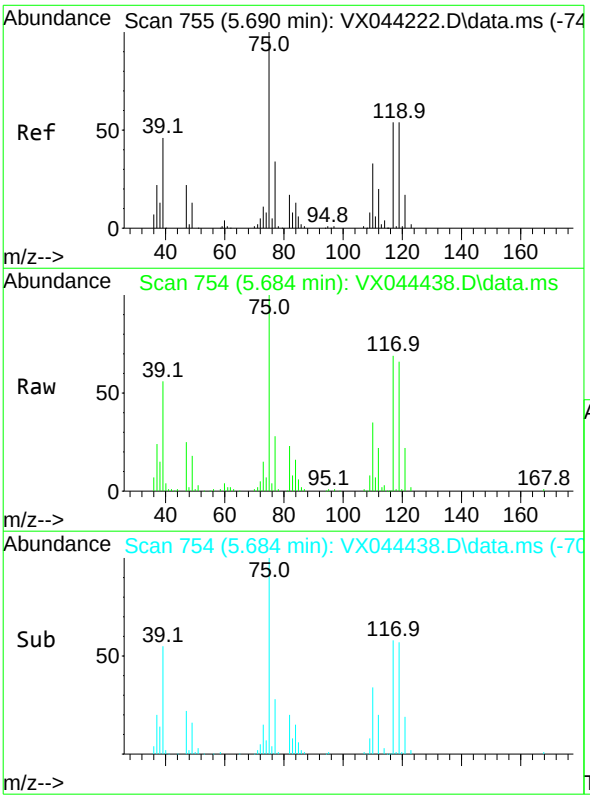
Ion	Ratio	Lower	Upper
113	100		
111	101.0	80.4	120.6
192	18.0	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

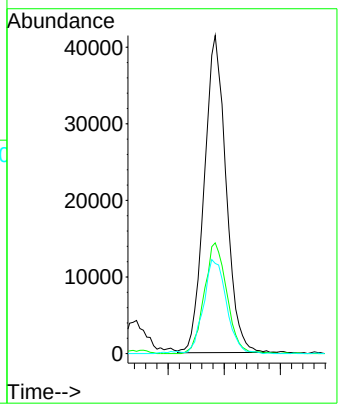
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

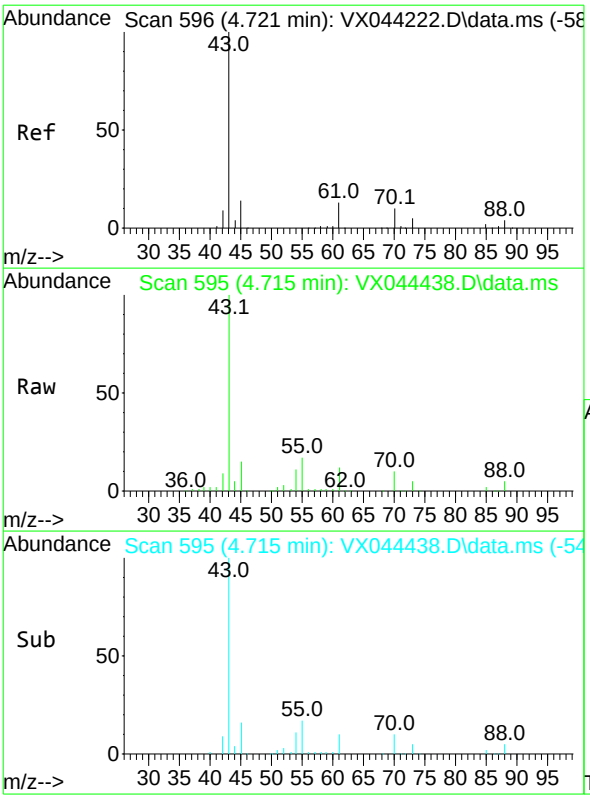


#36
1,1-Dichloropropene
Concen: 55.205 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 111706

Ion	Ratio	Lower	Upper
75	100		
110	36.3	17.3	51.7
77	31.1	25.4	38.0

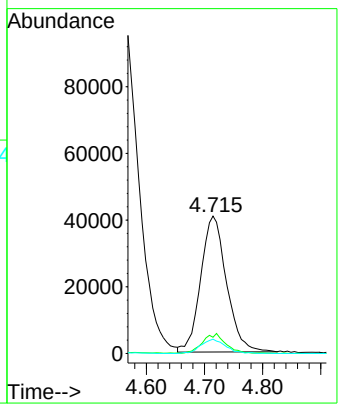




#37
Ethyl Acetate
Concen: 50.217 ug/l
RT: 4.715 min Scan# 59
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 125607

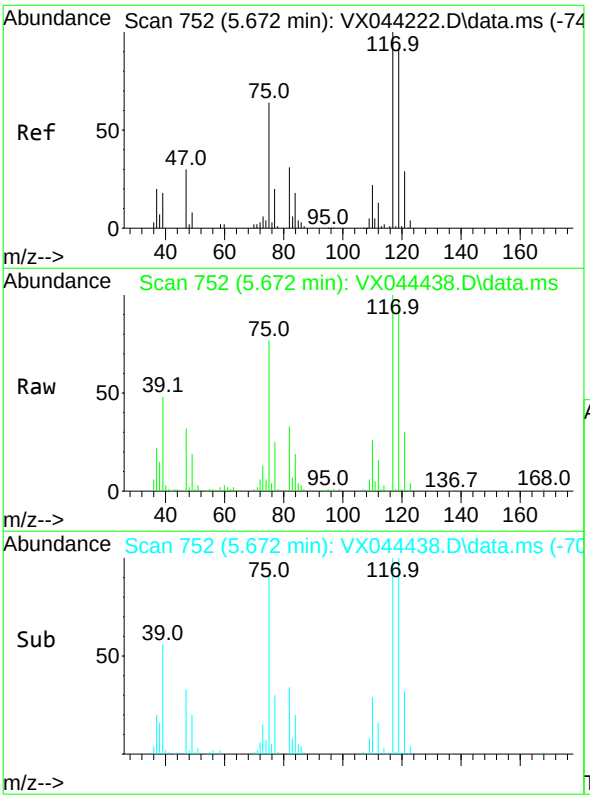
Ion	Ratio	Lower	Upper
43	100		
61	12.7	9.8	14.8
70	10.0	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

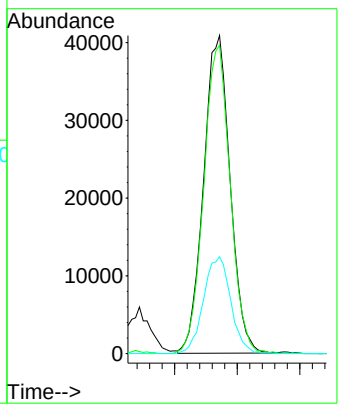
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

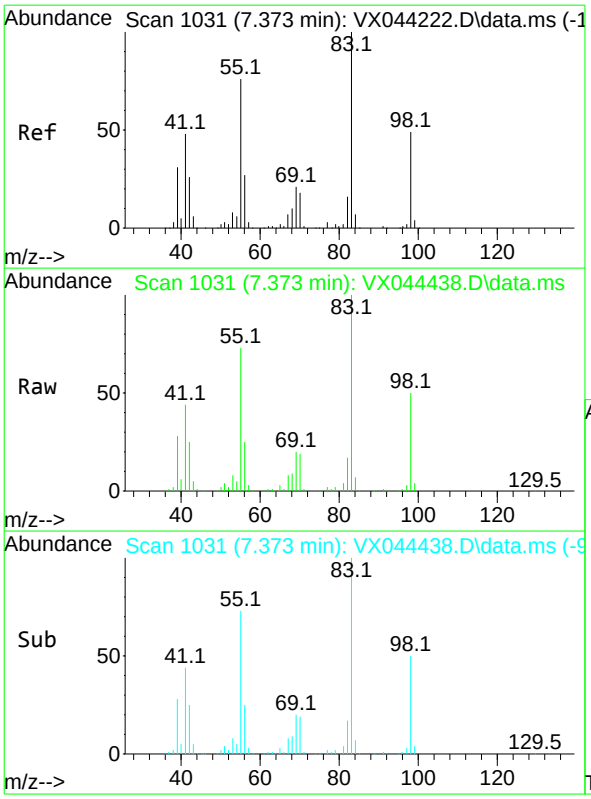


#38
Carbon Tetrachloride
Concen: 55.304 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:117 Resp: 120478

Ion	Ratio	Lower	Upper
117	100		
119	96.8	74.2	111.4
121	30.5	23.0	34.6

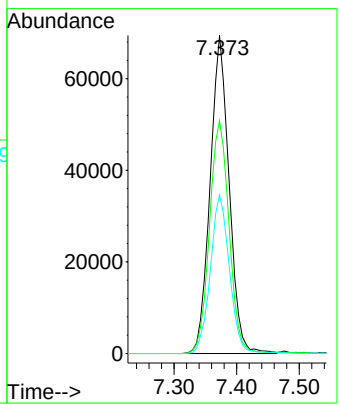




#39
Methylcyclohexane
Concen: 60.512 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 83 Resp: 146379

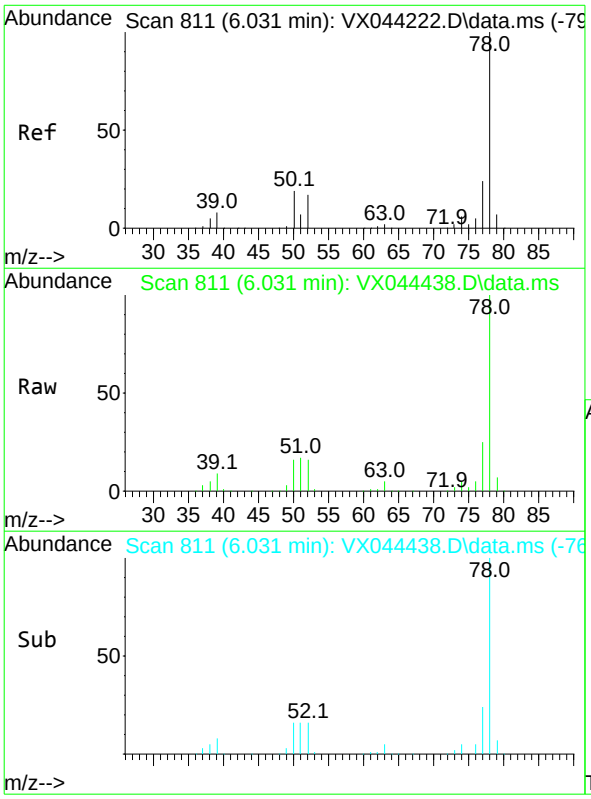
Ion	Ratio	Lower	Upper
83	100		
55	73.1	60.7	91.1
98	49.8	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

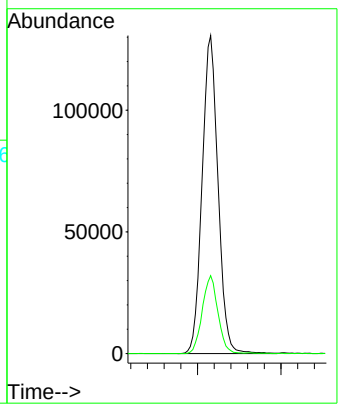
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

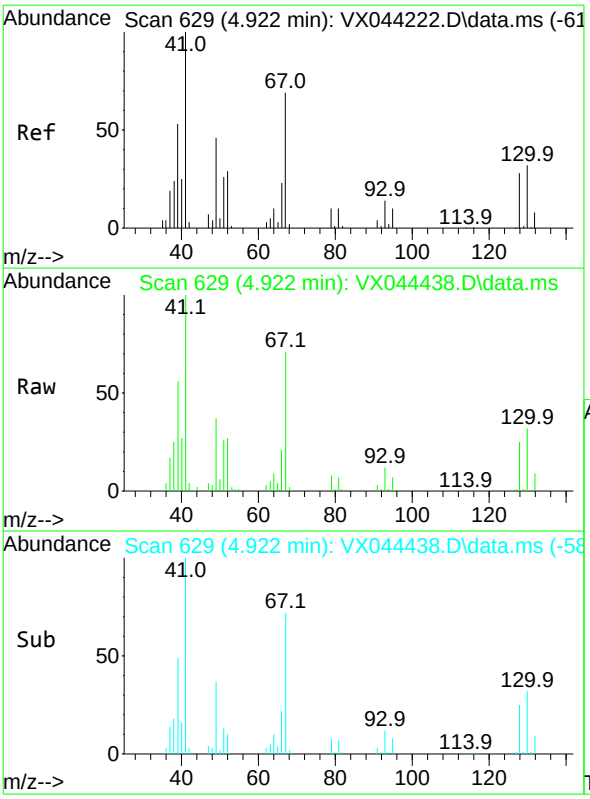


#40
Benzene
Concen: 56.259 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 78 Resp: 345635

Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.3	28.9

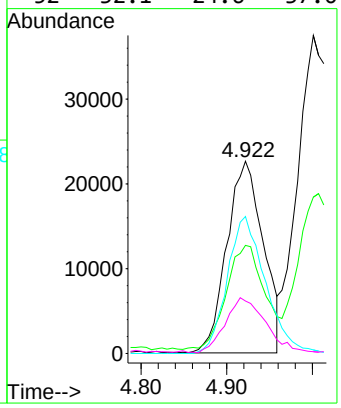




#41
Methacrylonitrile
Concen: 50.310 ug/l
RT: 4.922 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 41 Resp: 66821

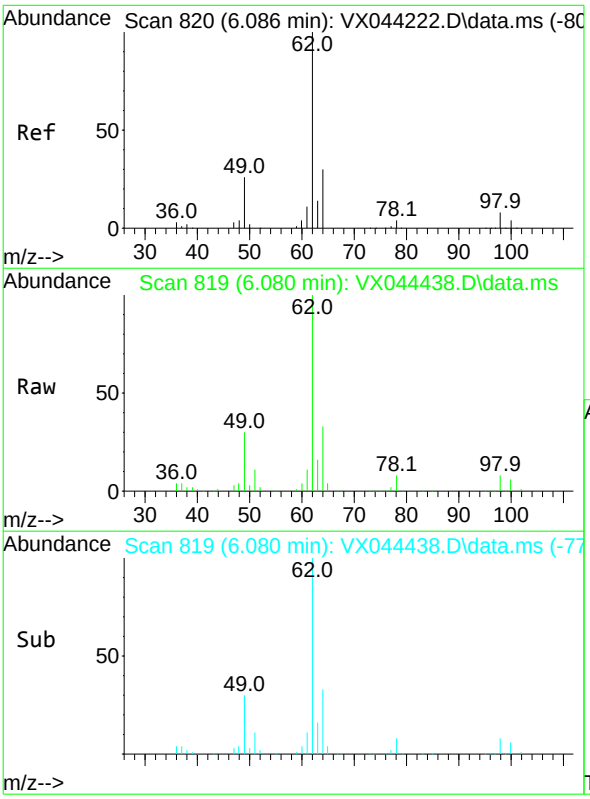
Ion	Ratio	Lower	Upper
41	100		
39	58.0	44.2	66.4
67	74.9	57.2	85.8
52	32.1	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

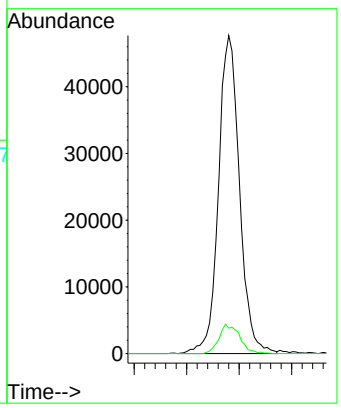
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

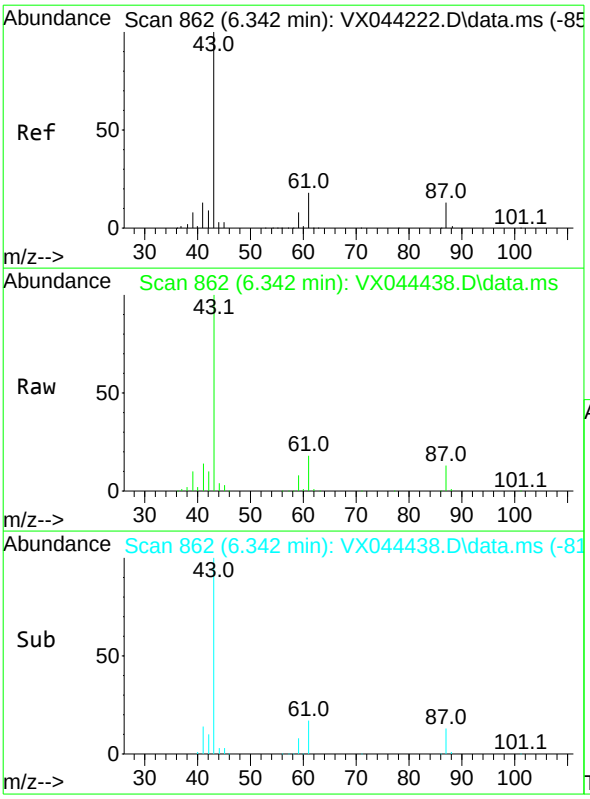


#42
1,2-Dichloroethane
Concen: 52.362 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 62 Resp: 132516

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	15.8

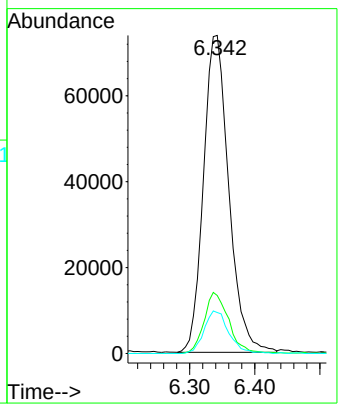




#43
Isopropyl Acetate
Concen: 51.076 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 199677

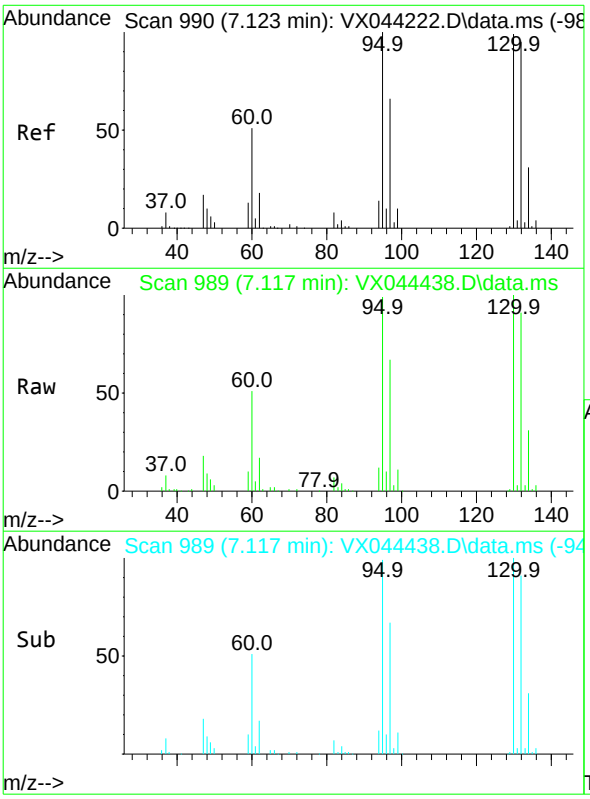
Ion	Ratio	Lower	Upper
43	100		
61	18.8	14.2	21.2
87	13.1	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

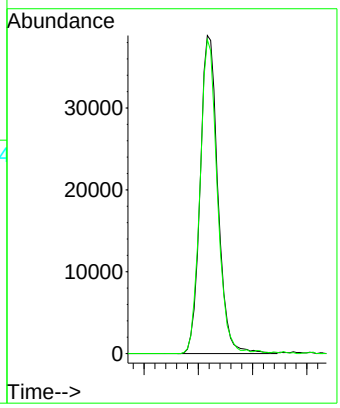
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

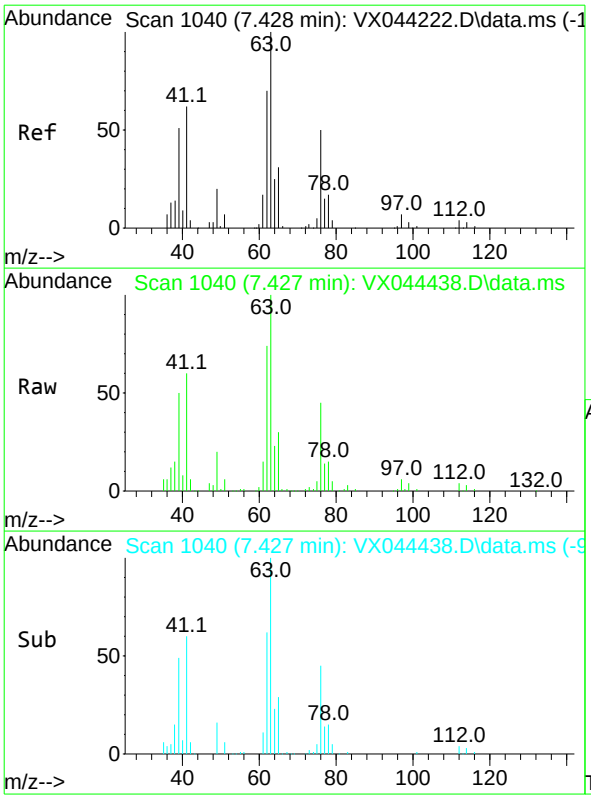


#44
Trichloroethene
Concen: 57.285 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:130 Resp: 87763

Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	201.4

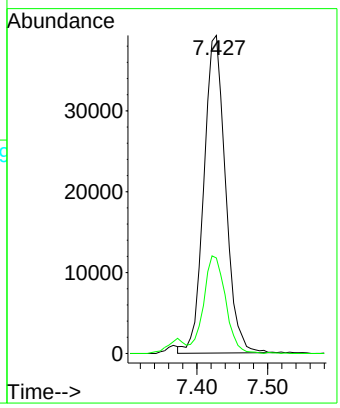




#45
1,2-Dichloropropane
Concen: 53.131 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 63 Resp: 83393

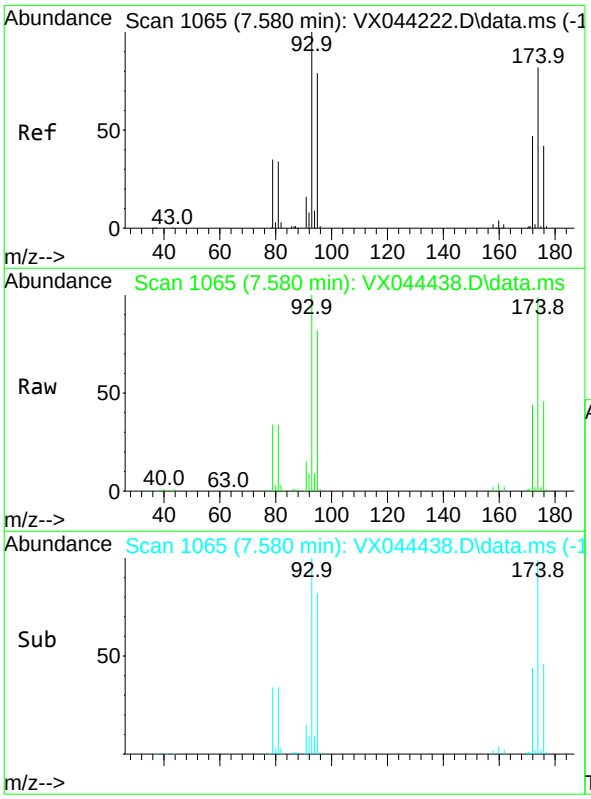
Ion	Ratio	Lower	Upper
63	100		
65	29.9	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

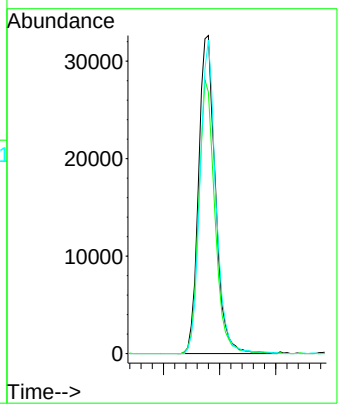
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

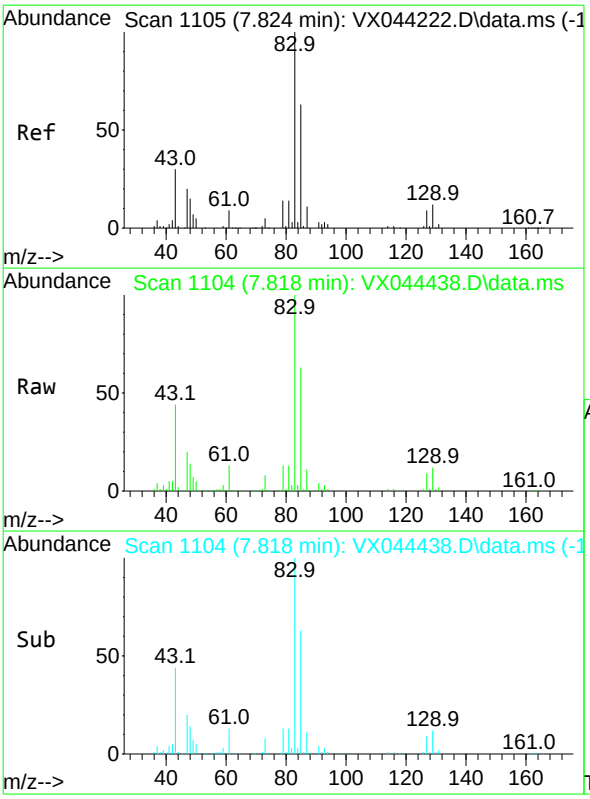


#46
Dibromomethane
Concen: 55.676 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 93 Resp: 67796

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.4	98.2
174	93.2	67.9	101.9

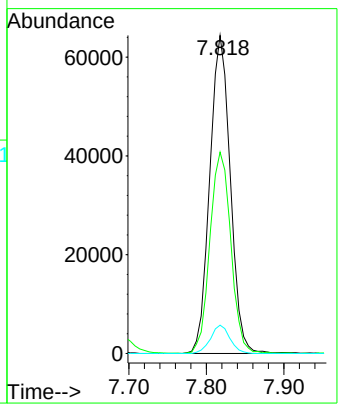




#47
Bromodichloromethane
Concen: 56.402 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 83 Resp: 118614

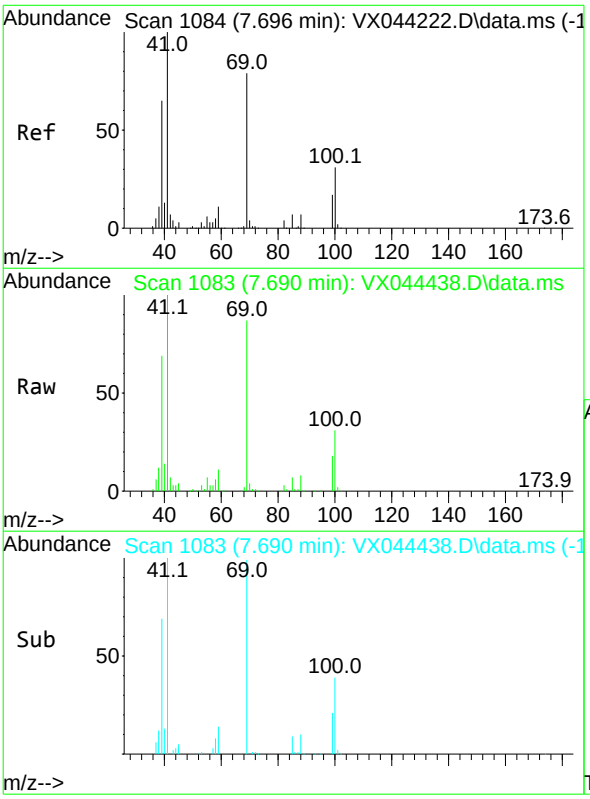
Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	8.9	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

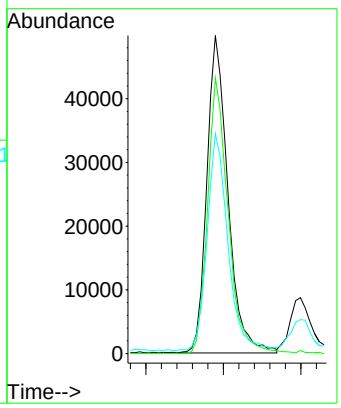
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

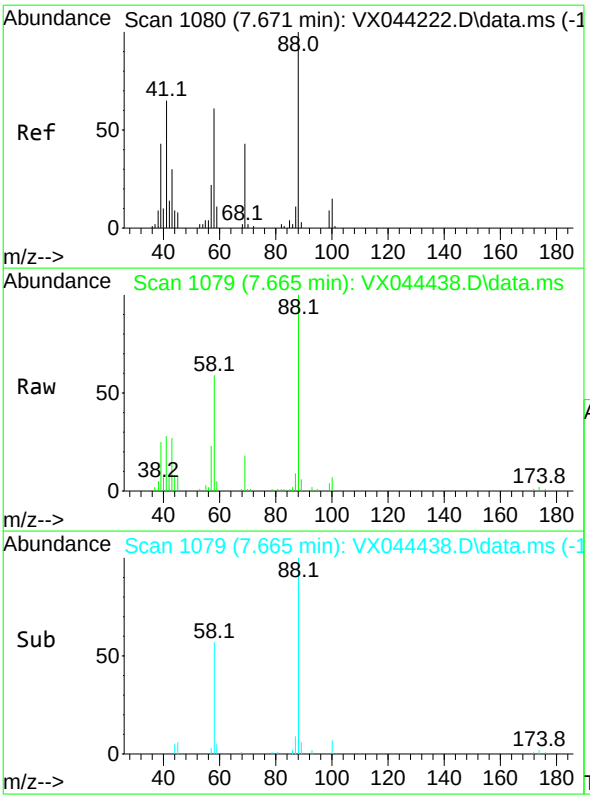


#48
Methyl methacrylate
Concen: 49.554 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 41 Resp: 94040

Ion	Ratio	Lower	Upper
41	100		
69	85.0	62.4	93.6
39	67.5	53.3	79.9

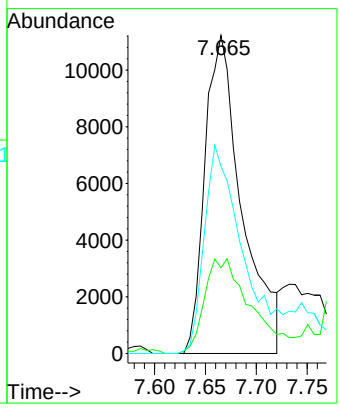




#49
1,4-Dioxane
Concen: 906.120 ug/l
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 88 Resp: 28510

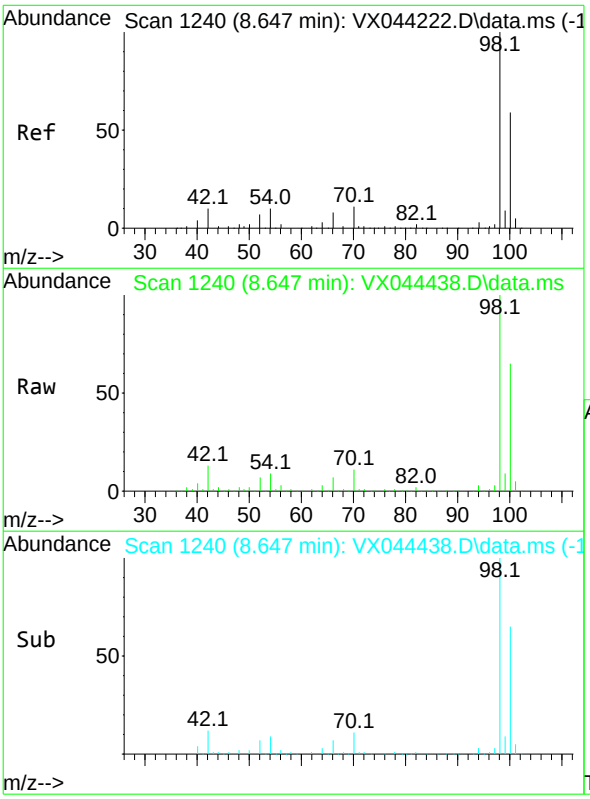
Ion	Ratio	Lower	Upper
88	100		
43	37.0	27.1	40.7
58	69.1	41.0	61.4#



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

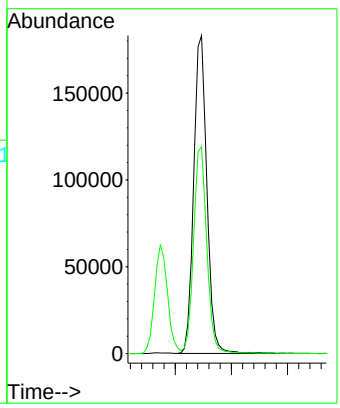
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

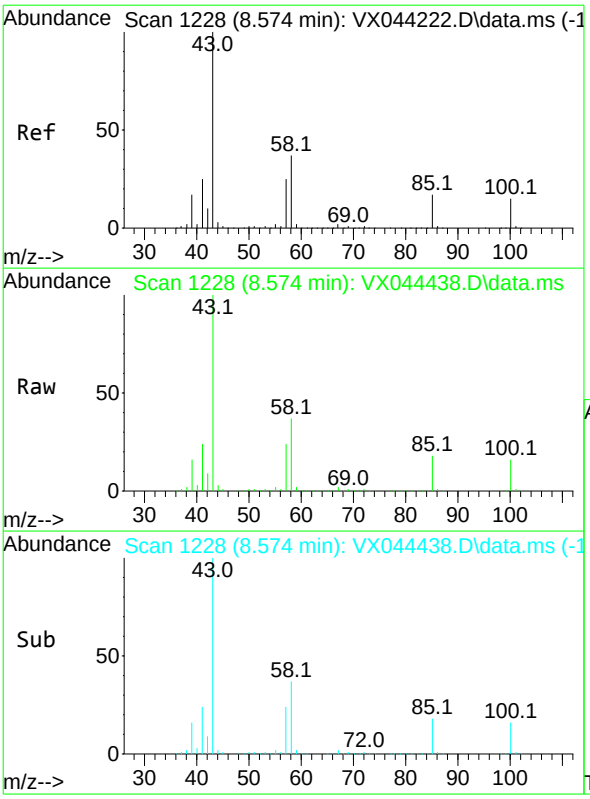


#50
Toluene-d8
Concen: 56.385 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 98 Resp: 297779

Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.5	77.3

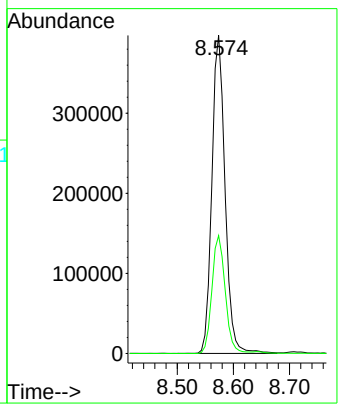




#51
4-Methyl-2-Pentanone
Concen: 257.494 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 647258

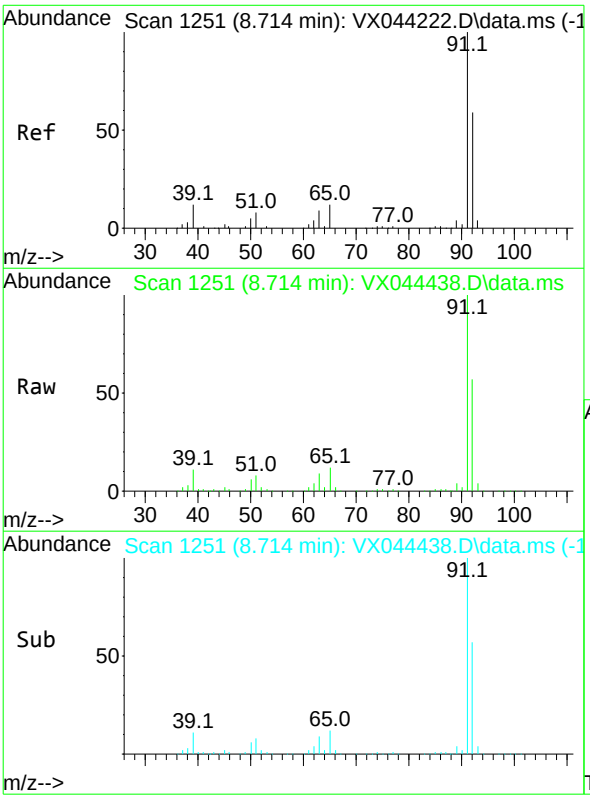
Ion	Ratio	Lower	Upper
43	100		
58	37.4	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

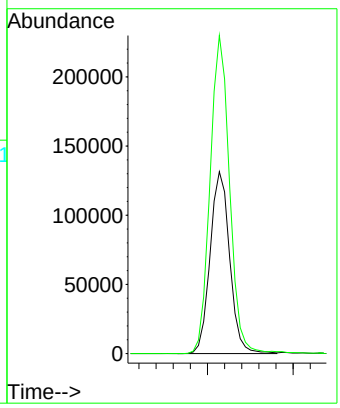
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

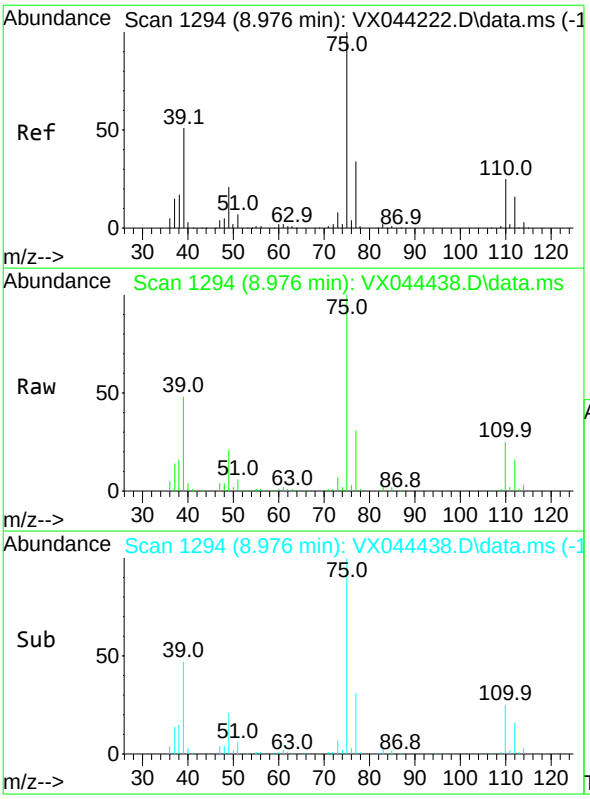


#52
Toluene
Concen: 54.120 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 92 Resp: 208798

Ion	Ratio	Lower	Upper
92	100		
91	174.6	137.0	205.6

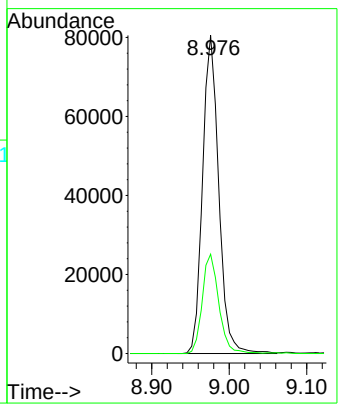




#53
t-1,3-Dichloropropene
Concen: 51.640 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 116841

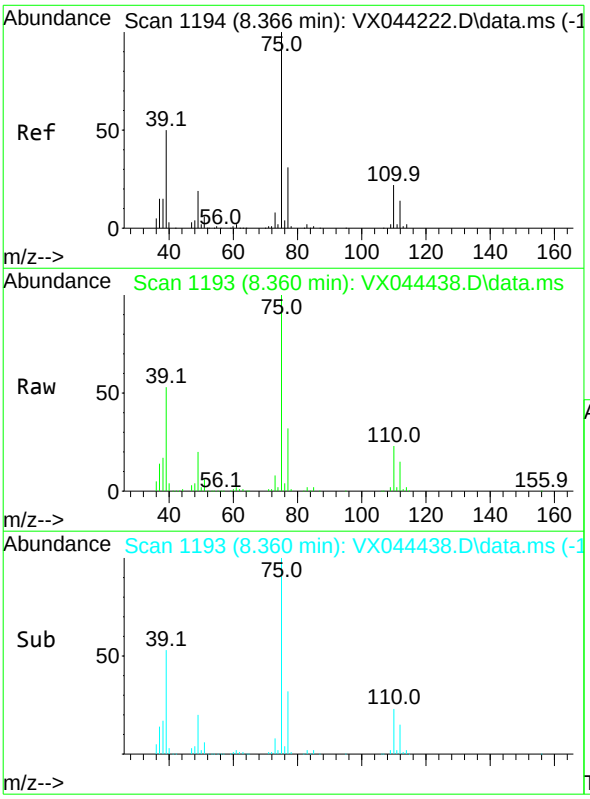
Ion	Ratio	Lower	Upper
75	100		
77	31.2	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

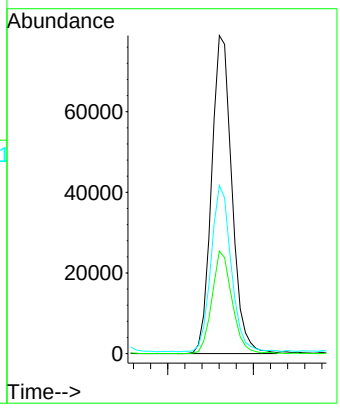
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

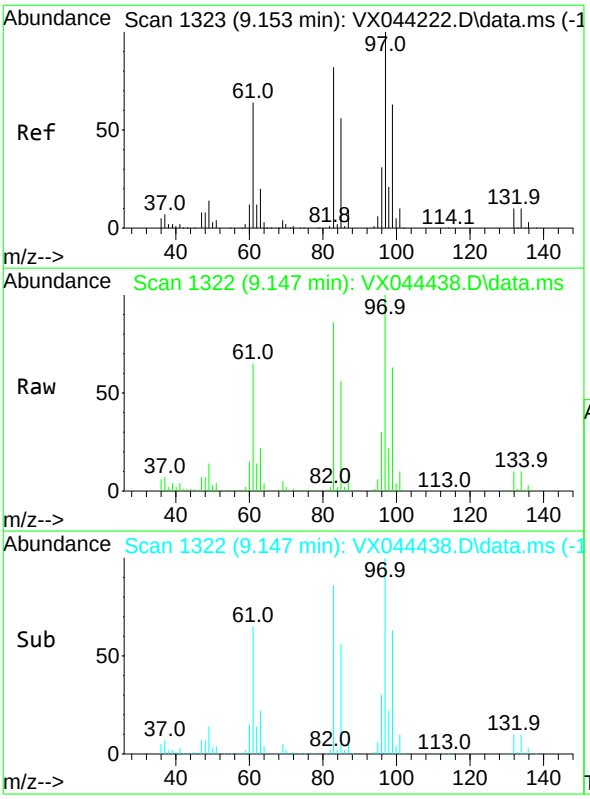


#54
cis-1,3-Dichloropropene
Concen: 56.913 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 130320

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.7	37.1
39	52.3	40.3	60.5

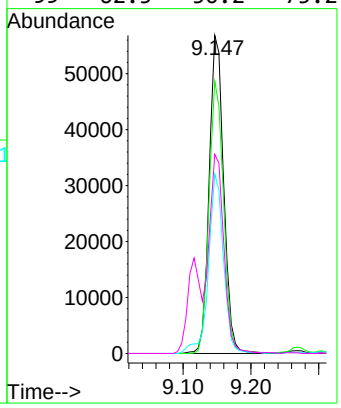




#55
1,1,2-Trichloroethane
Concen: 55.124 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 97 Resp: 84487

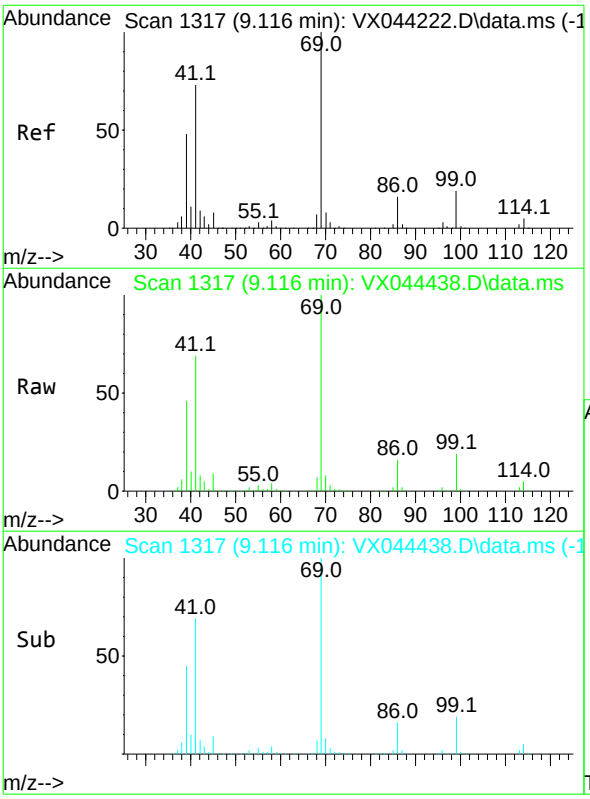
Ion	Ratio	Lower	Upper
97	100		
83	85.6	65.3	97.9
85	56.4	44.6	67.0
99	62.5	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

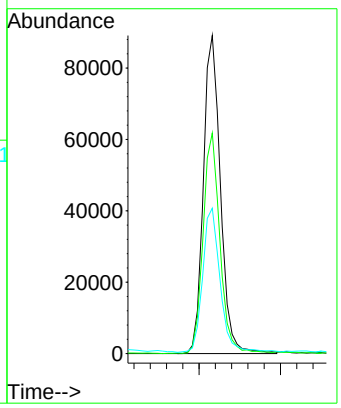
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

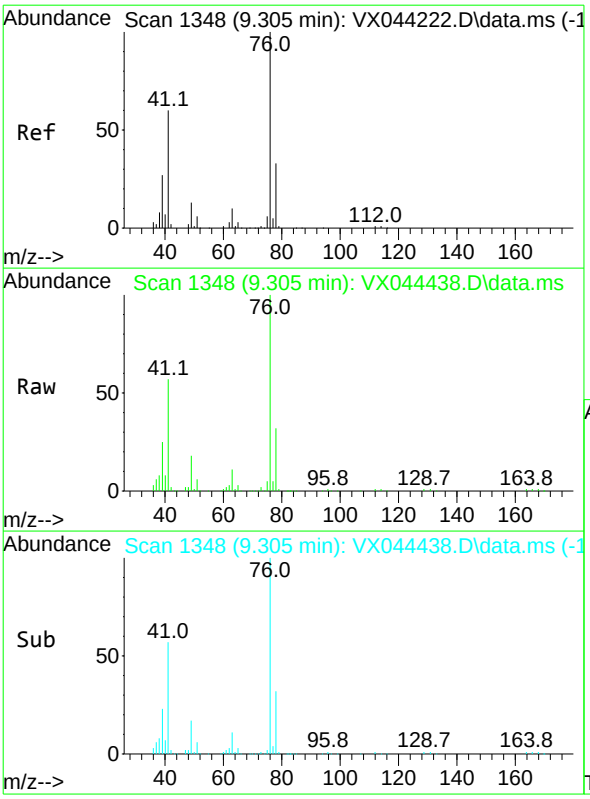


#56
Ethyl methacrylate
Concen: 53.800 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 69 Resp: 130175

Ion	Ratio	Lower	Upper
69	100		
41	68.3	56.6	85.0
39	46.2	37.4	56.0

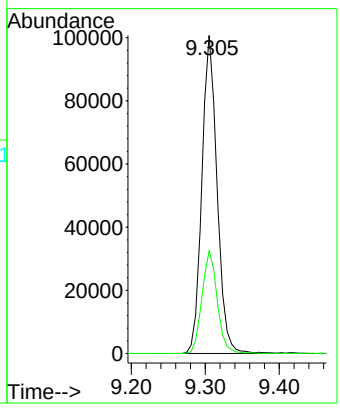




#57
1,3-Dichloropropane
Concen: 53.824 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 76 Resp: 143590

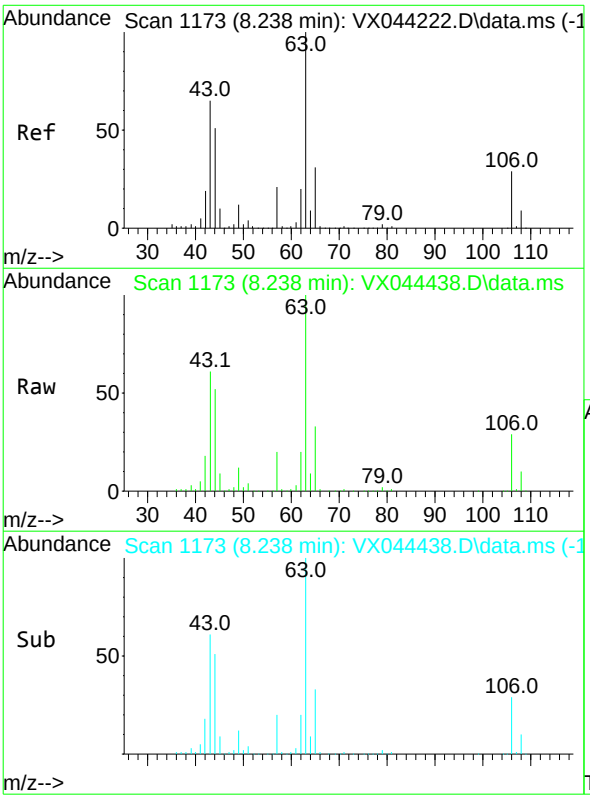
Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

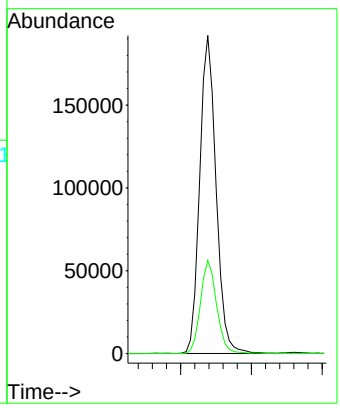
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

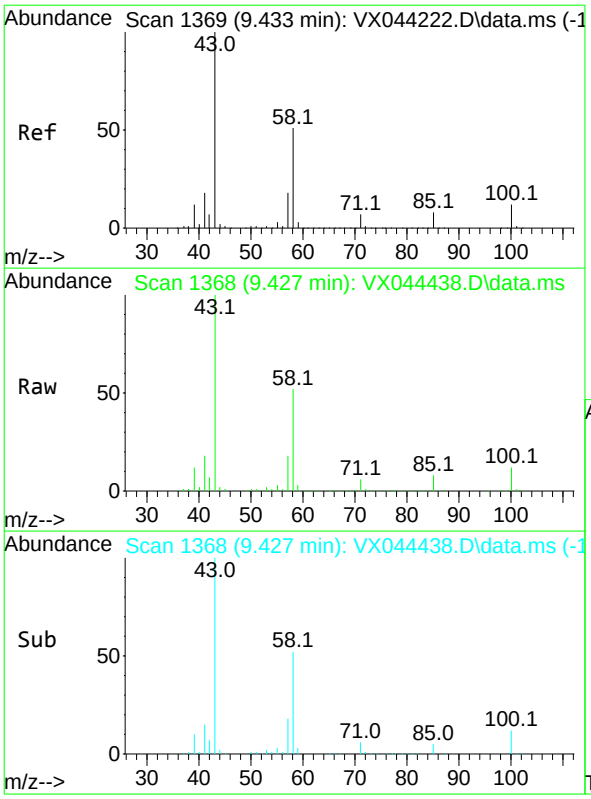


#58
2-Chloroethyl Vinyl ether
Concen: 252.070 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 63 Resp: 307620

Ion	Ratio	Lower	Upper
63	100		
106	29.0	22.8	34.2

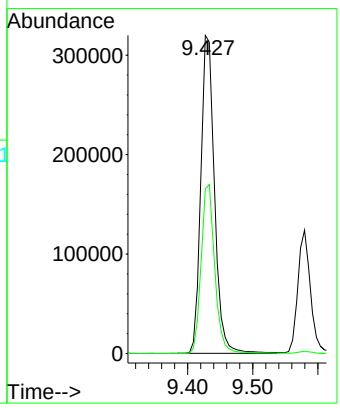




#59
2-Hexanone
Concen: 256.860 ug/l
RT: 9.427 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 467347

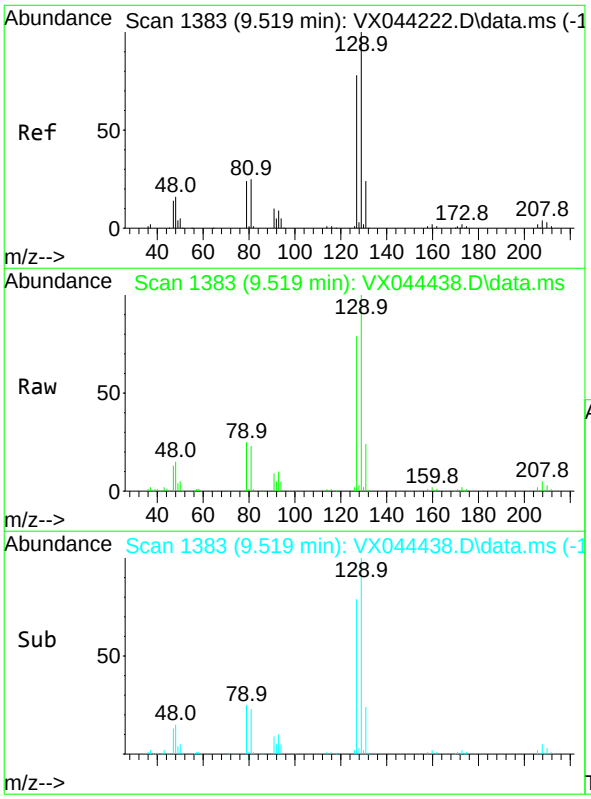
Ion	Ratio	Lower	Upper
43	100		
58	53.0	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

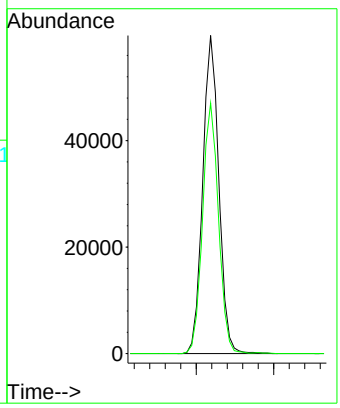
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

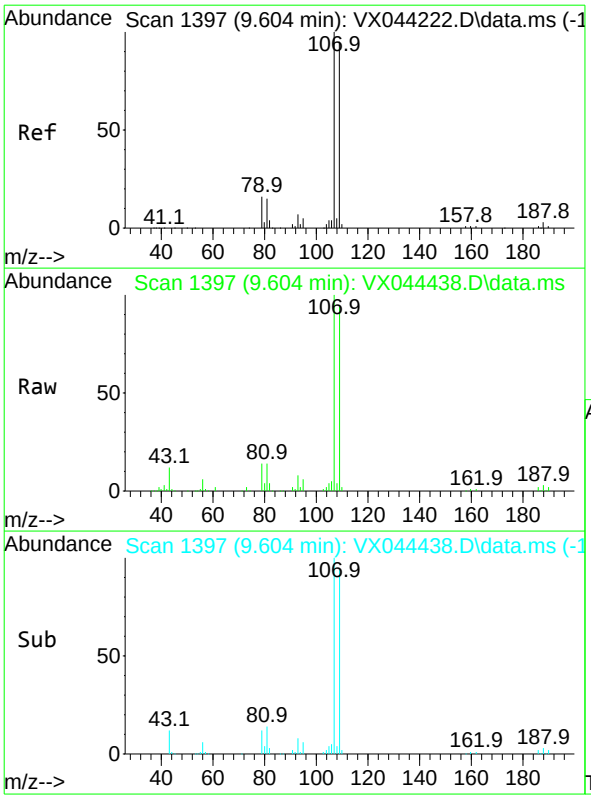


#60
Dibromochloromethane
Concen: 52.901 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:129 Resp: 86207

Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.5	115.3

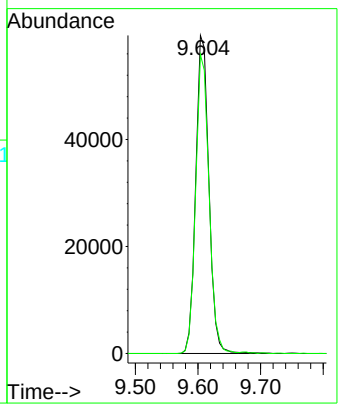




#61
1,2-Dibromoethane
Concen: 55.721 ug/l
RT: 9.604 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:107 Resp: 86930

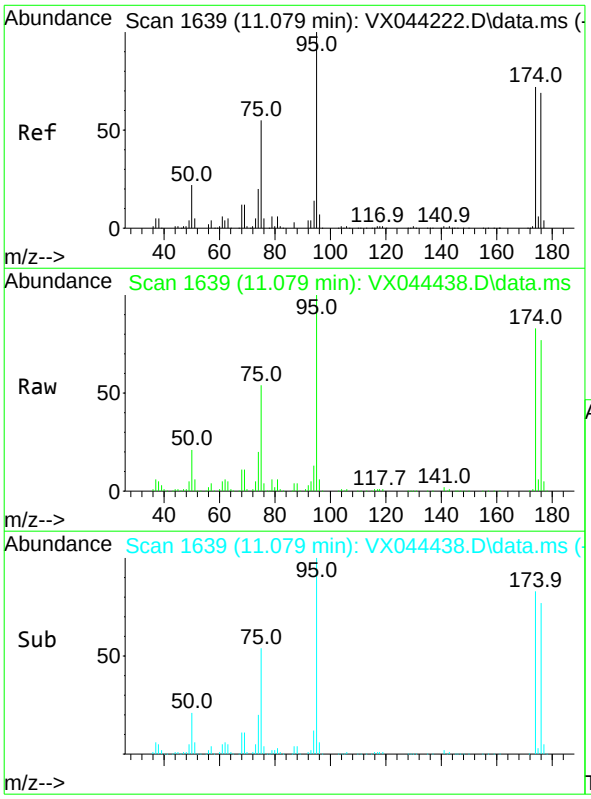
Ion	Ratio	Lower	Upper
107	100		
109	95.3	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

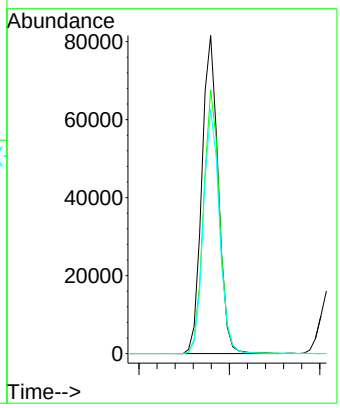
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

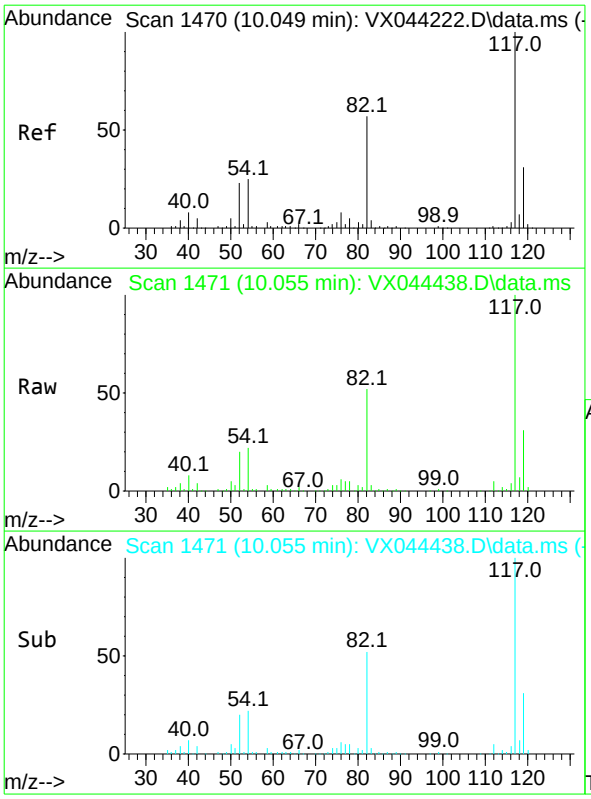


#62
4-Bromofluorobenzene
Concen: 55.640 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 95 Resp: 102676

Ion	Ratio	Lower	Upper
95	100		
174	81.4	0.0	145.8
176	75.6	0.0	137.8

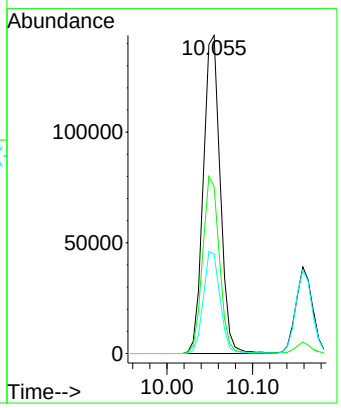




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:117 Resp: 197543

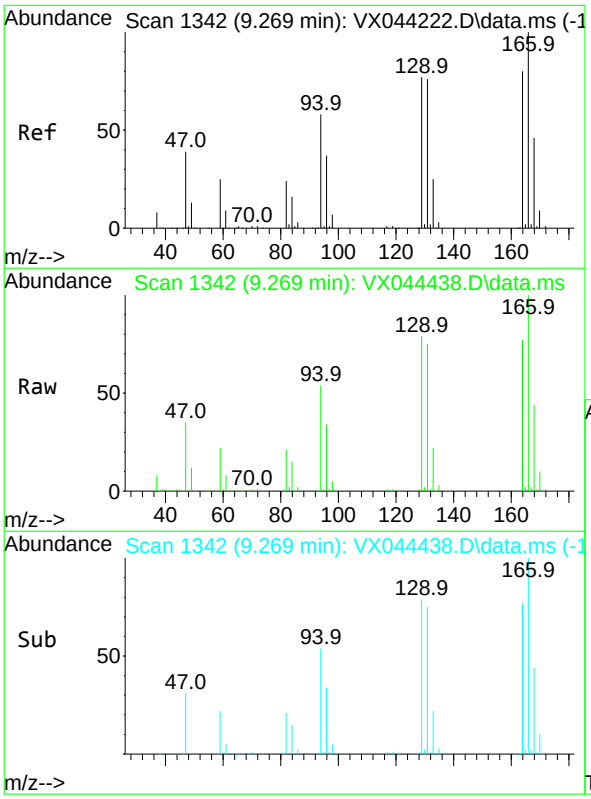
Ion	Ratio	Lower	Upper
117	100		
82	52.5	45.8	68.8
119	31.3	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

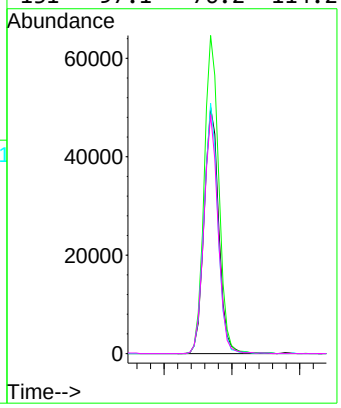
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

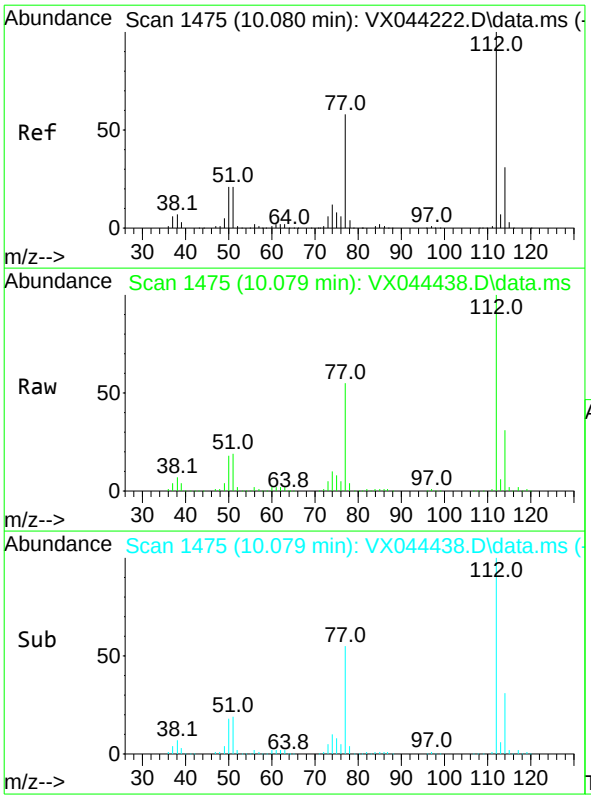


#64
Tetrachloroethene
Concen: 57.001 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:164 Resp: 74735

Ion	Ratio	Lower	Upper
164	100		
166	129.3	100.4	150.6
129	101.8	77.2	115.8
131	97.1	76.2	114.2

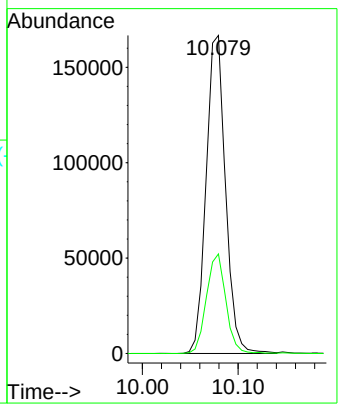




#65
Chlorobenzene
Concen: 55.402 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:112 Resp: 234513

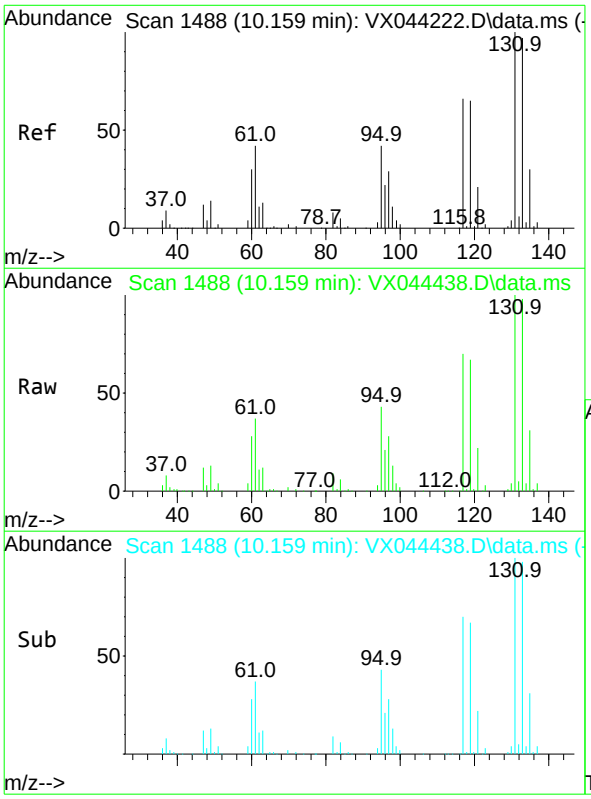
Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

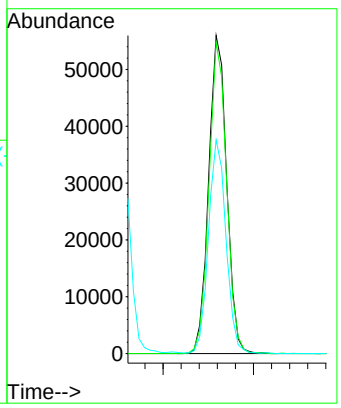
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

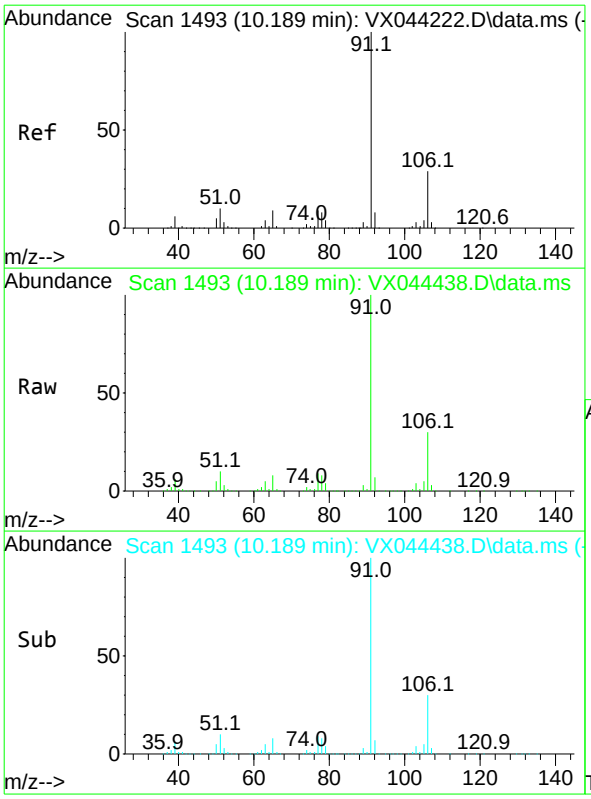


#66
1,1,1,2-Tetrachloroethane
Concen: 56.959 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:131 Resp: 77487

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.3	141.8
119	65.6	31.6	95.0

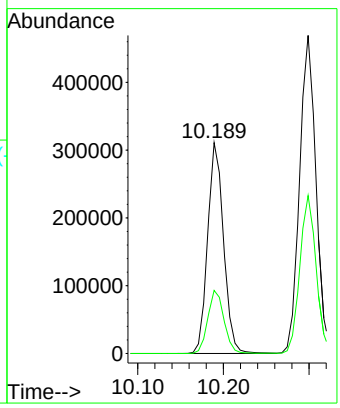




#67
Ethyl Benzene
Concen: 54.936 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 91 Resp: 401792

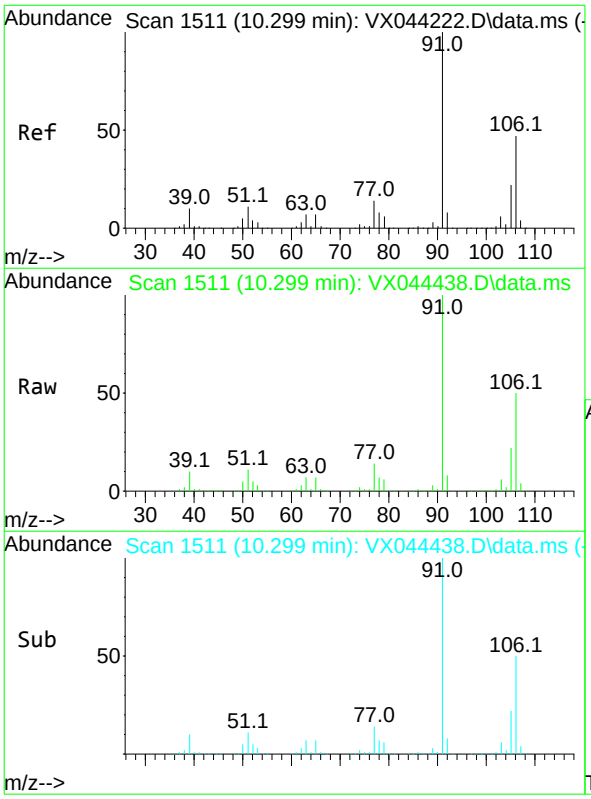
Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

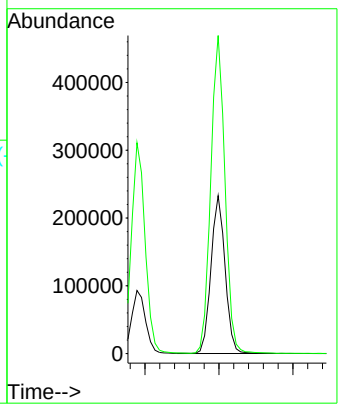
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

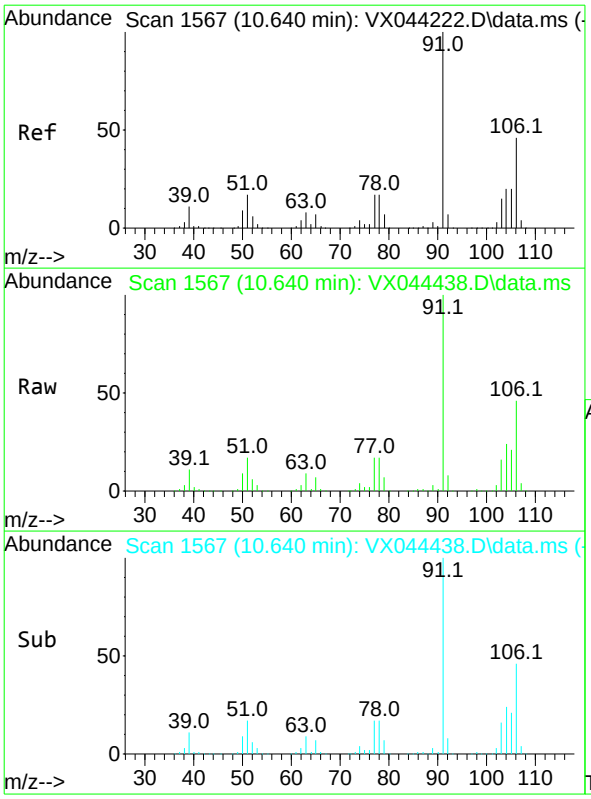


#68
m/p-Xylenes
Concen: 114.771 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:106 Resp: 308013

Ion	Ratio	Lower	Upper
106	100		
91	202.5	170.2	255.2

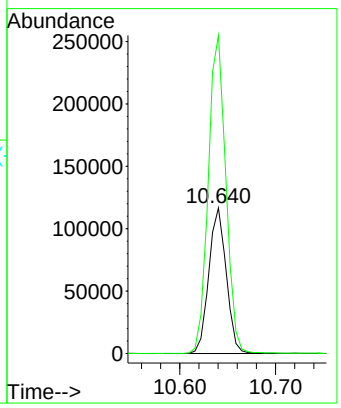




#69
o-Xylene
Concen: 54.389 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:106 Resp: 147688

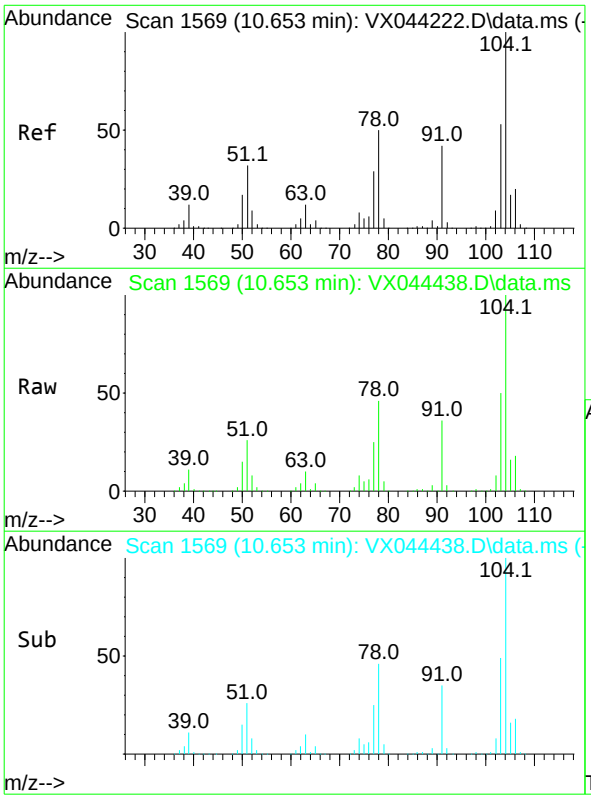
Ion	Ratio	Lower	Upper
106	100		
91	220.8	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

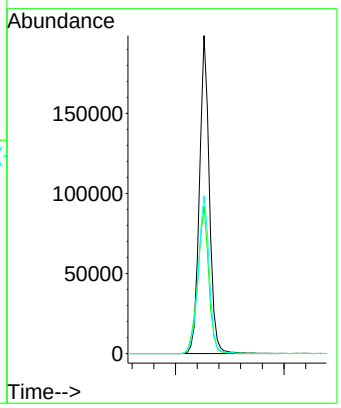
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

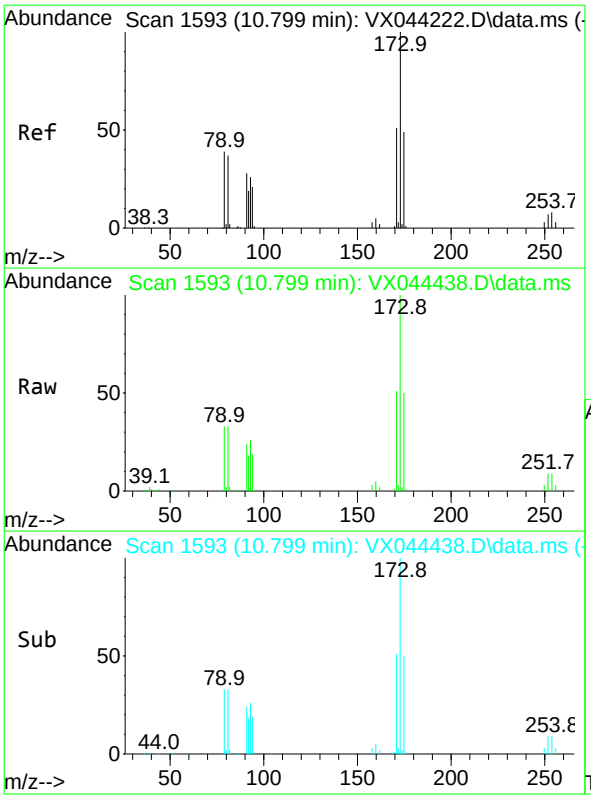


#70
Styrene
Concen: 57.862 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:104 Resp: 251875

Ion	Ratio	Lower	Upper
104	100		
78	51.5	44.6	67.0
103	54.8	45.4	68.0





#71
Bromoform
Concen: 54.671 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

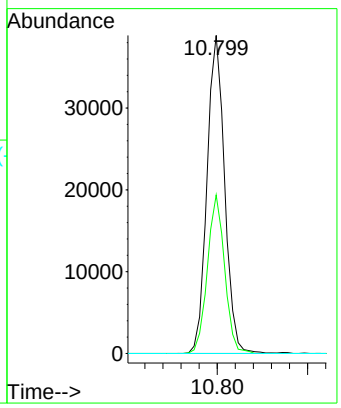
Tgt Ion:173 Resp: 52602

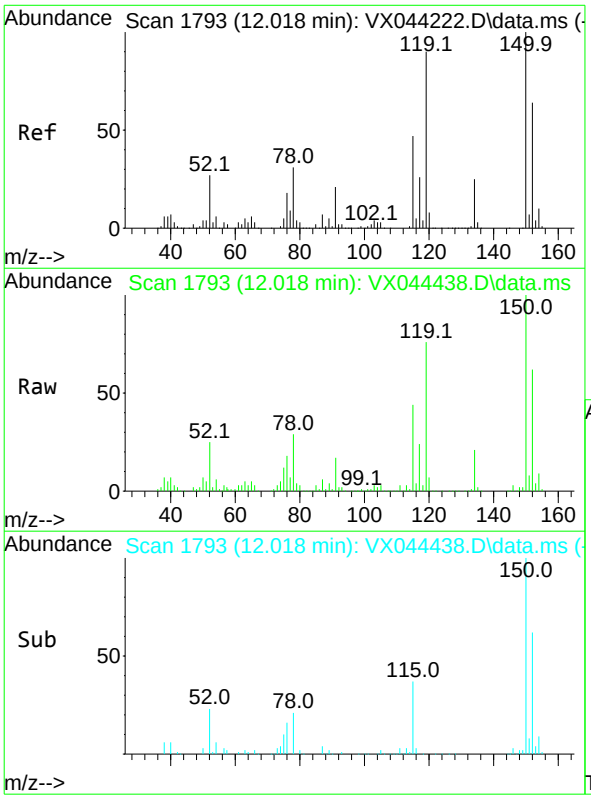
Ion	Ratio	Lower	Upper
173	100		
175	48.7	23.8	71.4
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

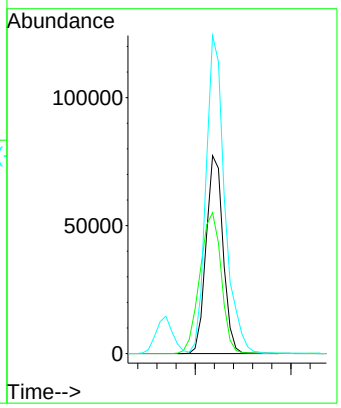


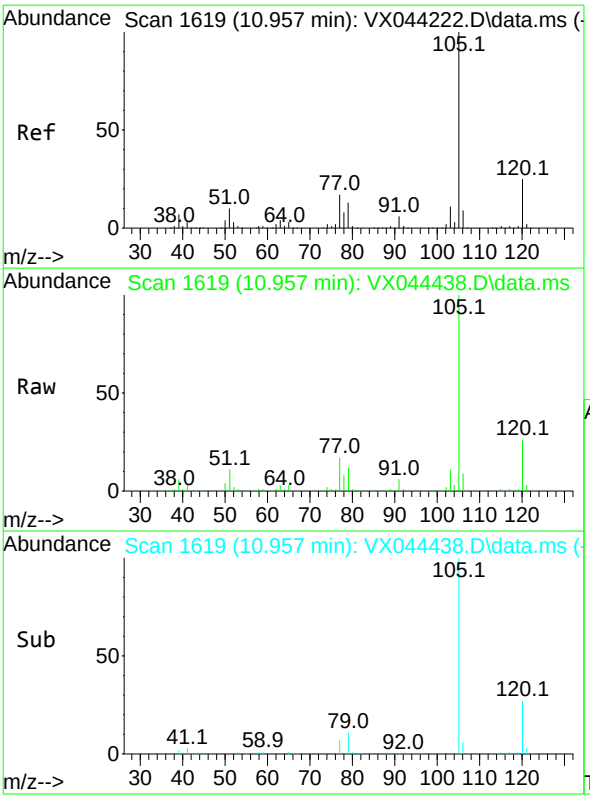


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:152 Resp: 95339

Ion	Ratio	Lower	Upper
152	100		
115	89.6	44.5	133.3
150	177.4	0.0	353.8

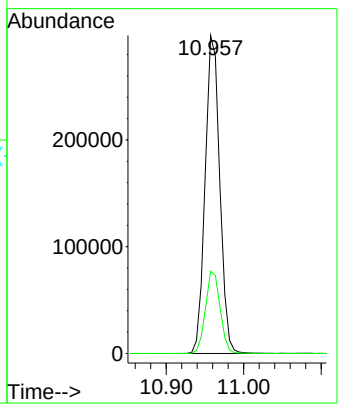




#73
Isopropylbenzene
Concen: 53.495 ug/l
RT: 10.957 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:105 Resp: 390438

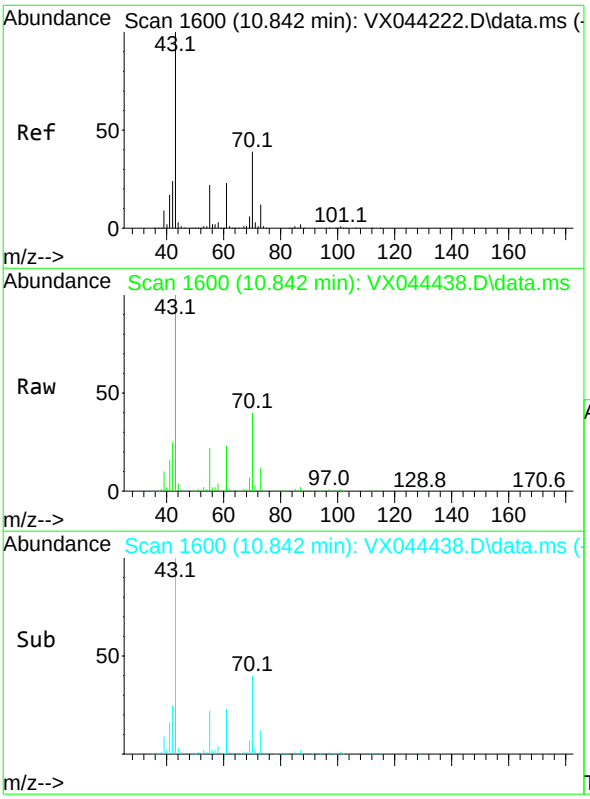
Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

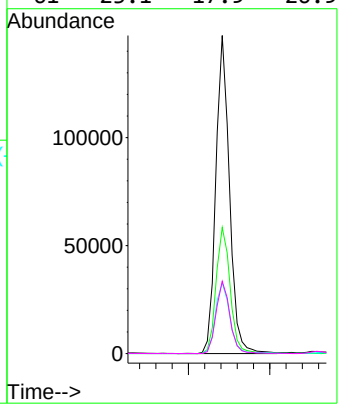
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

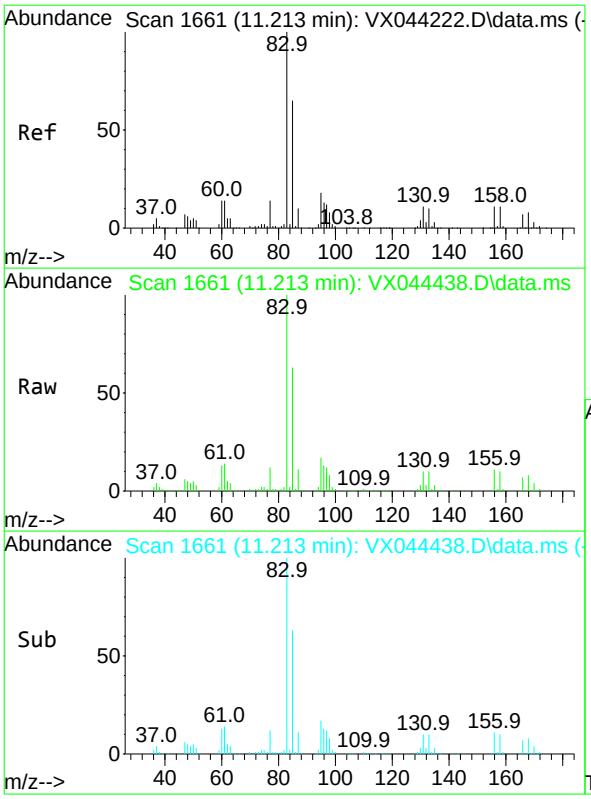


#74
N-amyl acetate
Concen: 50.885 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 171638

Ion	Ratio	Lower	Upper
43	100		
70	41.1	31.9	47.9
55	23.7	17.9	26.9
61	23.1	17.9	26.9





#75
1,1,2,2-Tetrachloroethane
Concen: 52.145 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

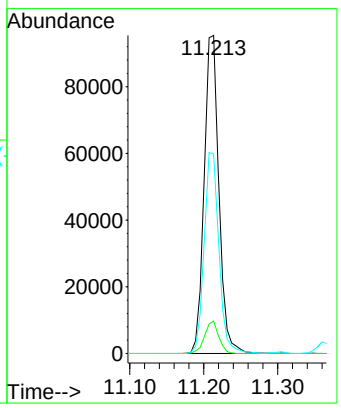
Tgt Ion: 83 Resp: 132190

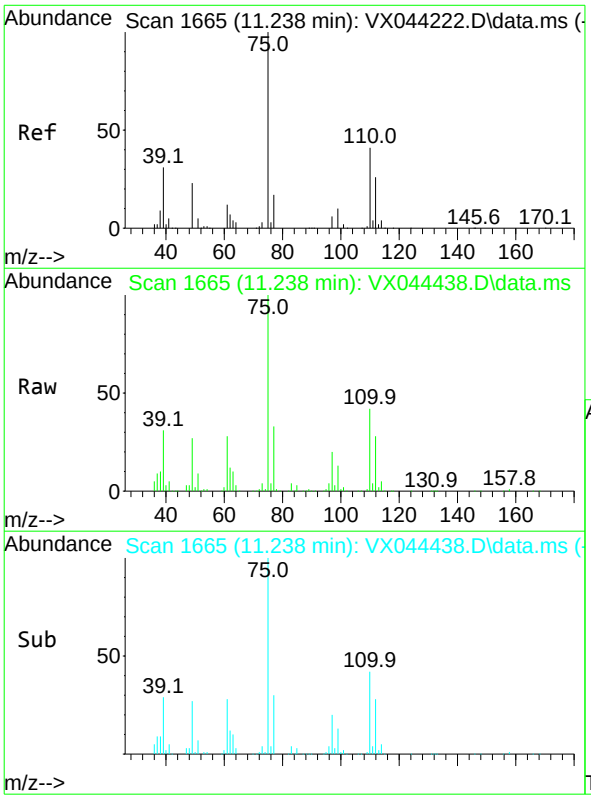
Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.4
85	63.4	32.5	97.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

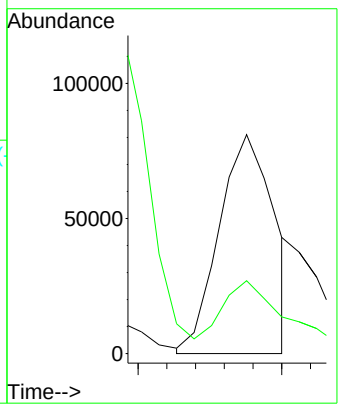


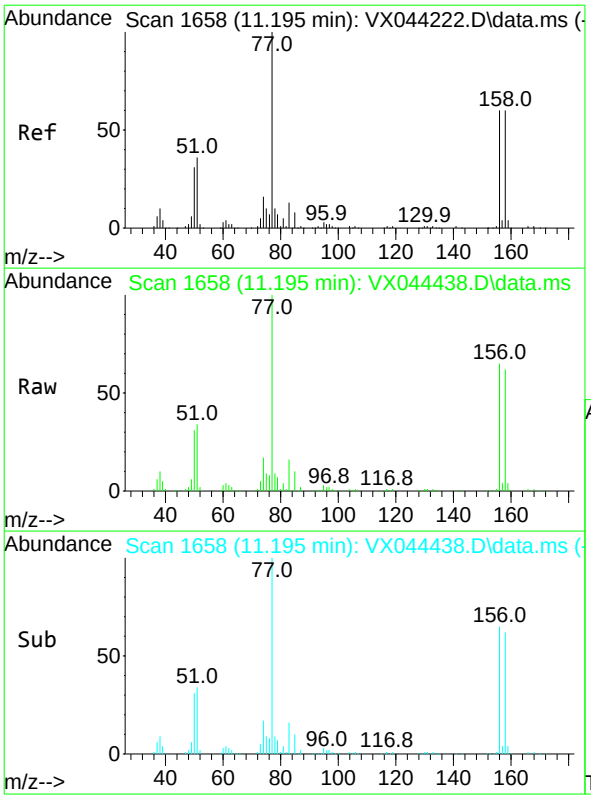


#76
1,2,3-Trichloropropane
Concen: 50.641 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 107800

Ion	Ratio	Lower	Upper
75	100		
77	40.8	20.9	62.7





#77
Bromobenzene
Concen: 53.953 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

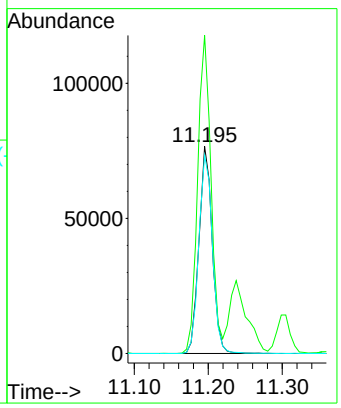
Tgt Ion:156 Resp: 95489

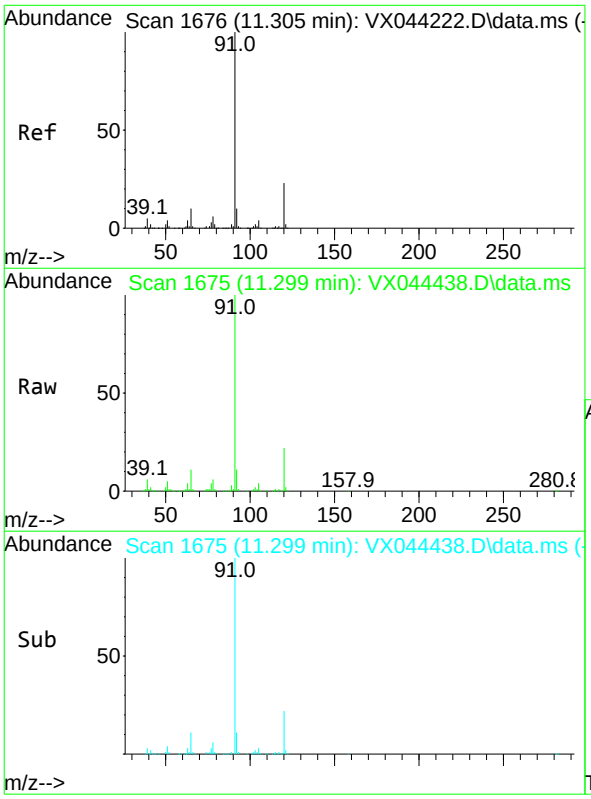
Ion	Ratio	Lower	Upper
156	100		
77	155.1	82.6	247.8
158	98.5	48.8	146.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

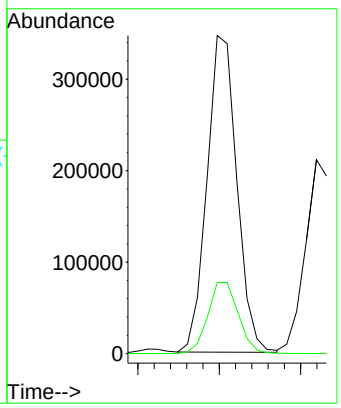


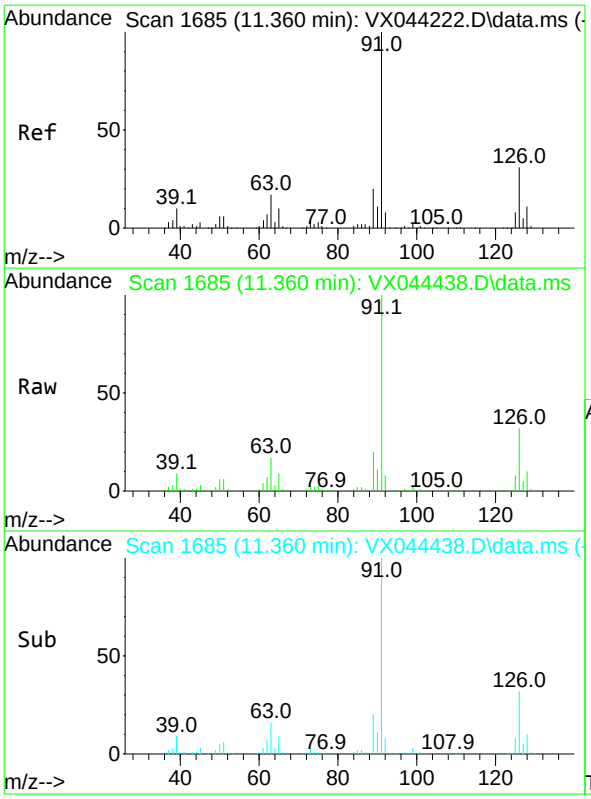


#78
n-propylbenzene
Concen: 54.741 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 91 Resp: 441589

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.0	33.0

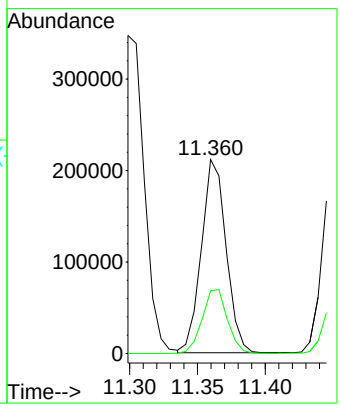




#79
2-Chlorotoluene
Concen: 51.311 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 91 Resp: 267690

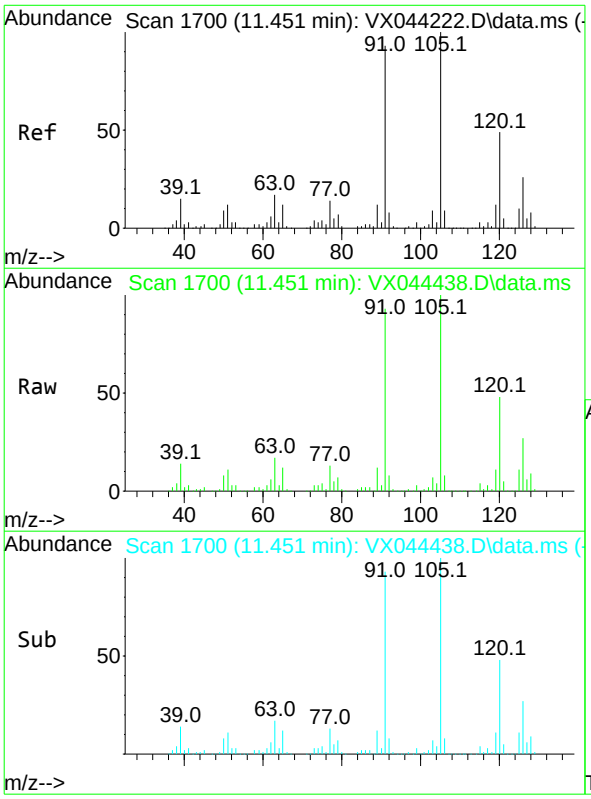
Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

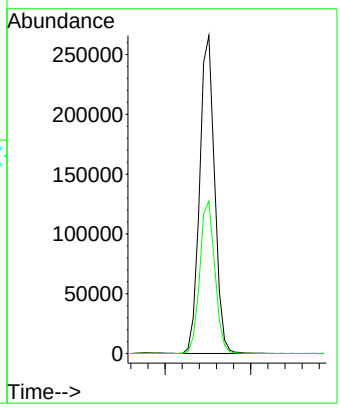
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

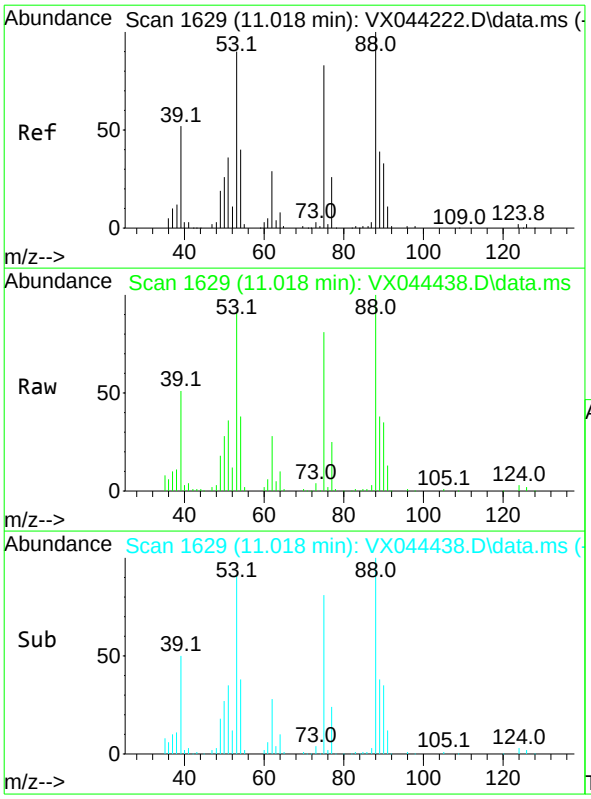


#80
1,3,5-Trimethylbenzene
Concen: 53.284 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:105 Resp: 322510

Ion	Ratio	Lower	Upper
105	100		
120	48.5	23.8	71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 47.498 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

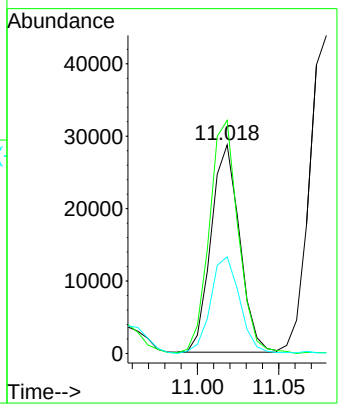
Tgt Ion: 75 Resp: 35051

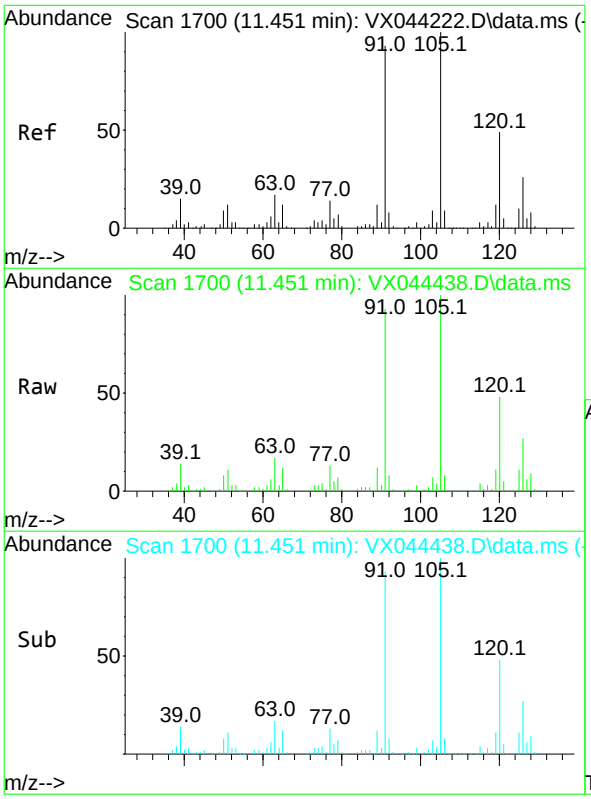
Ion	Ratio	Lower	Upper
75	100		
53	114.3	93.6	140.4
89	47.8	37.3	55.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

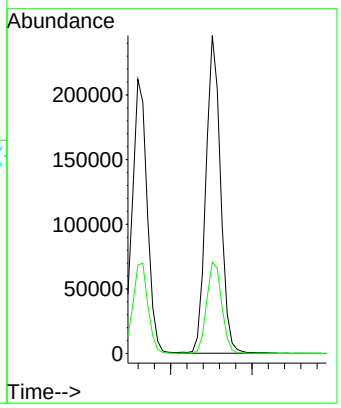


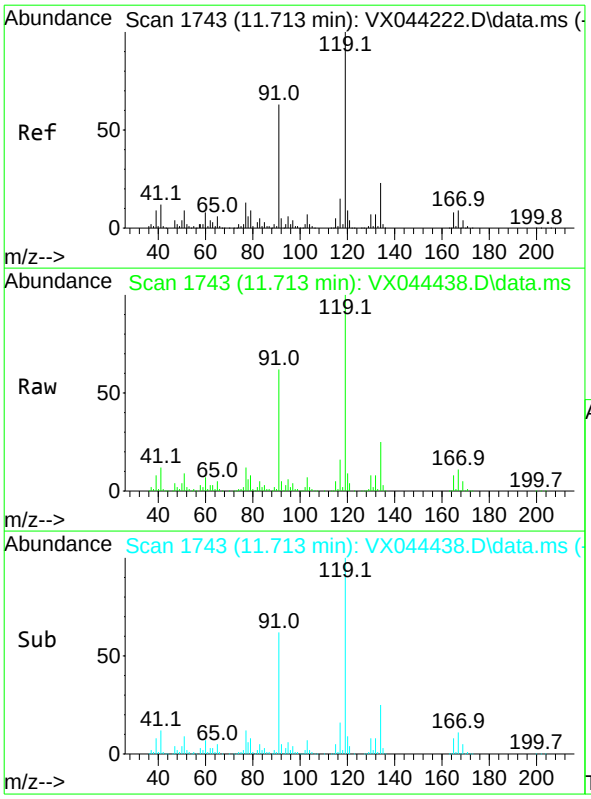


#82
4-Chlorotoluene
Concen: 52.929 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 91 Resp: 305777

Ion	Ratio	Lower	Upper
91	100		
126	29.7	14.5	43.5

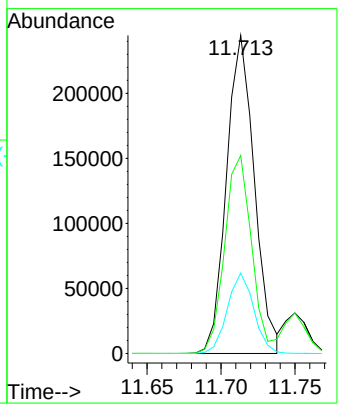




#83
tert-Butylbenzene
Concen: 53.600 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:119 Resp: 320615

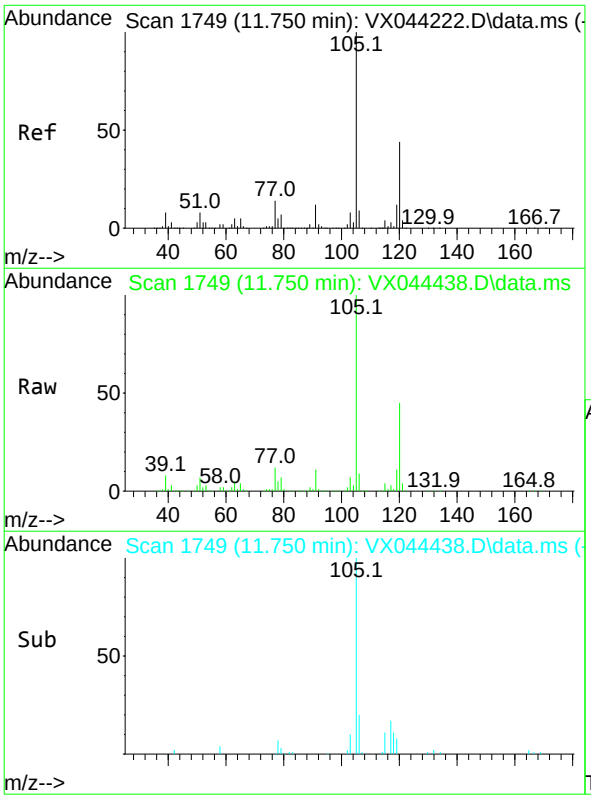
Ion	Ratio	Lower	Upper
119	100		
91	59.4	30.9	92.5
134	24.0	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

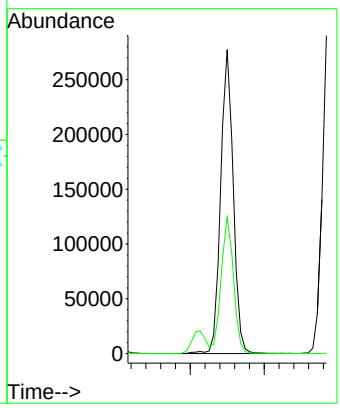
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

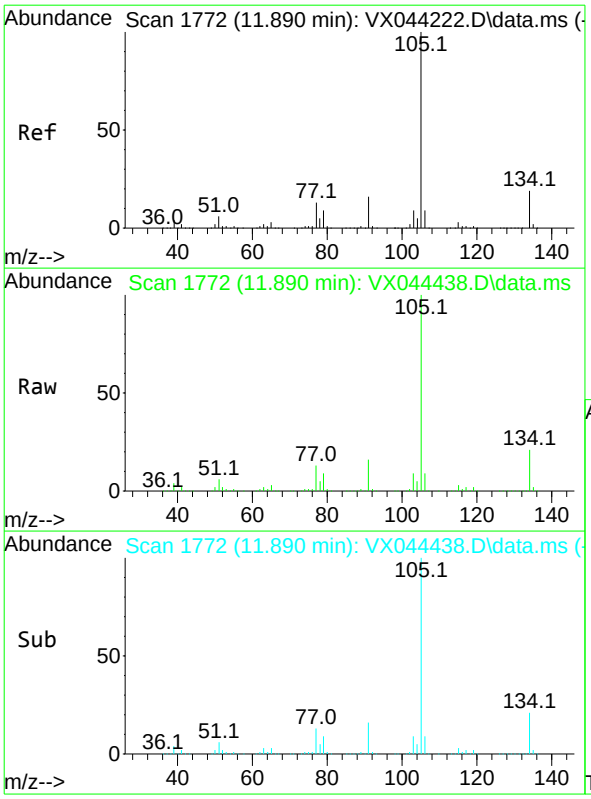


#84
1,2,4-Trimethylbenzene
Concen: 55.123 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:105 Resp: 327657

Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.7	65.1

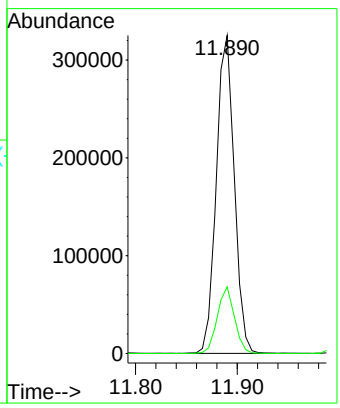




#85
sec-Butylbenzene
Concen: 54.989 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:105 Resp: 399310

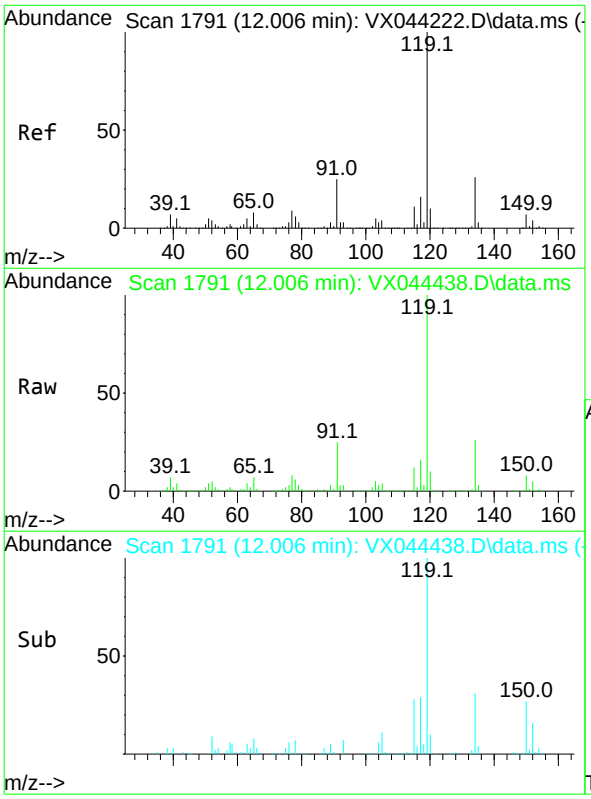
Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

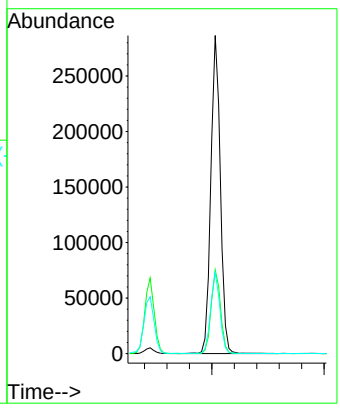
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

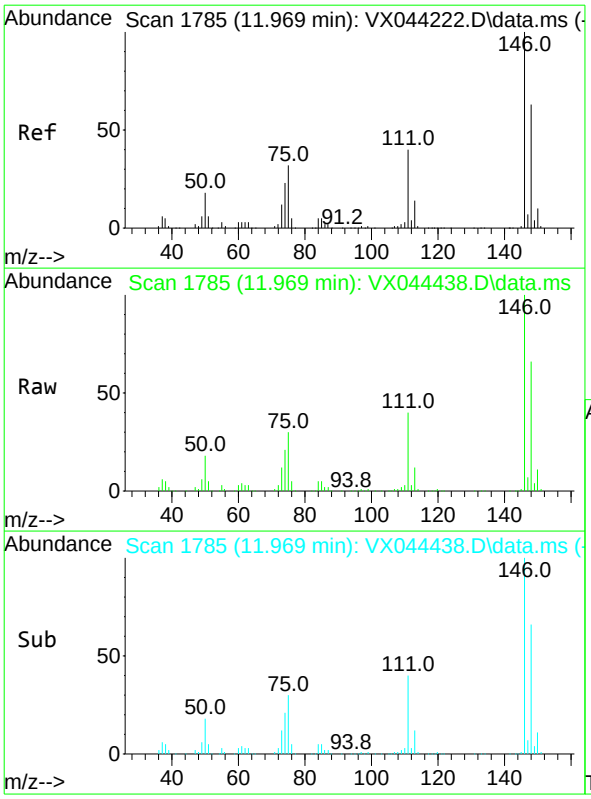


#86
p-Isopropyltoluene
Concen: 55.691 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:119 Resp: 336593

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	24.8	13.0	39.0





#87
1,3-Dichlorobenzene
Concen: 55.839 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

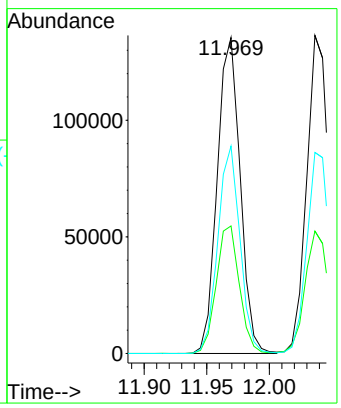
Tgt Ion:146 Resp: 172628

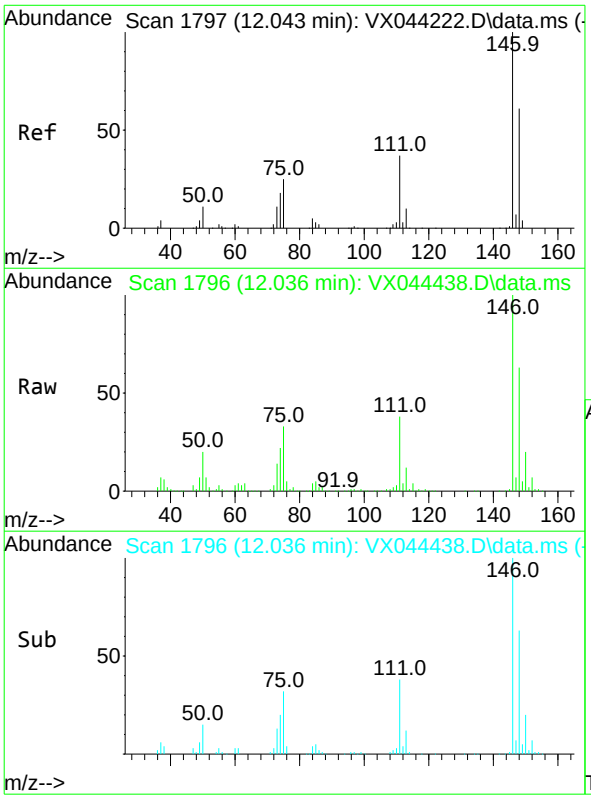
Ion	Ratio	Lower	Upper
146	100		
111	40.7	21.4	64.2
148	63.2	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

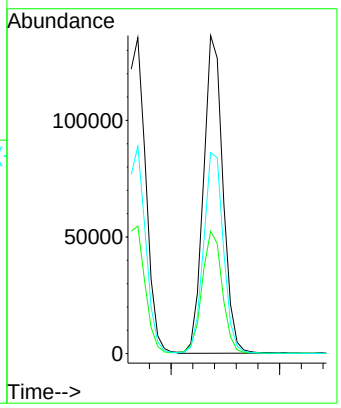


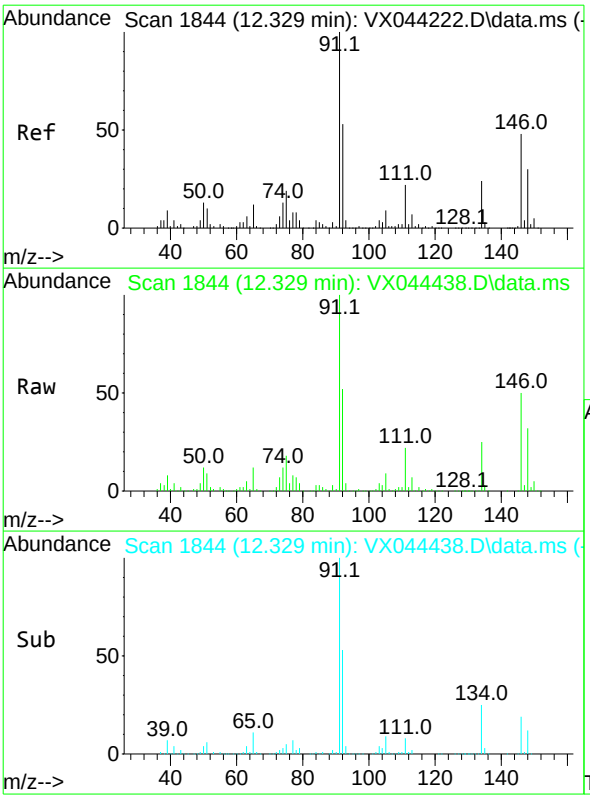


#88
1,4-Dichlorobenzene
Concen: 53.422 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:146 Resp: 169778

Ion	Ratio	Lower	Upper
146	100		
111	39.9	21.0	63.0
148	65.0	32.3	96.8





#89
n-Butylbenzene
Concen: 57.503 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

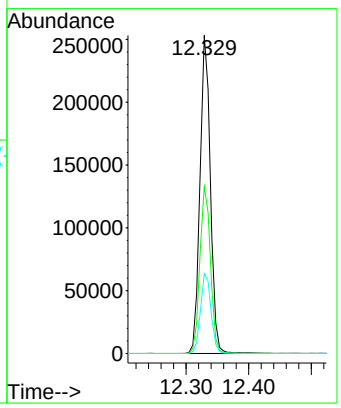
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

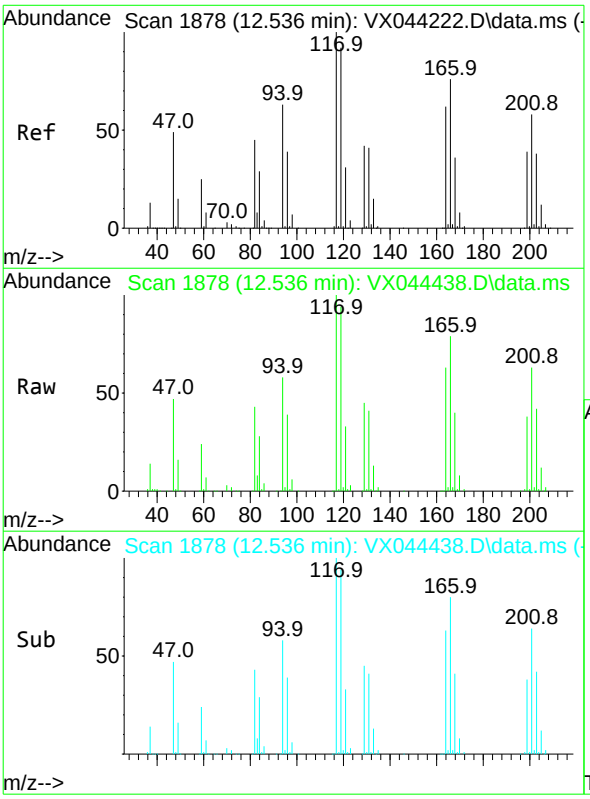
Tgt Ion: 91 Resp: 292244

Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.6	79.7
134	25.5	12.6	37.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

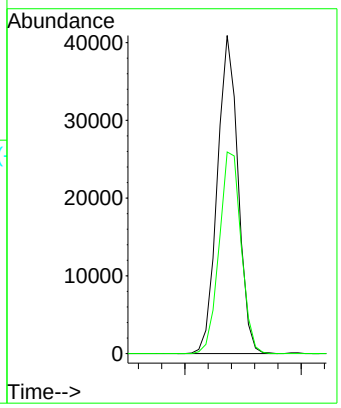


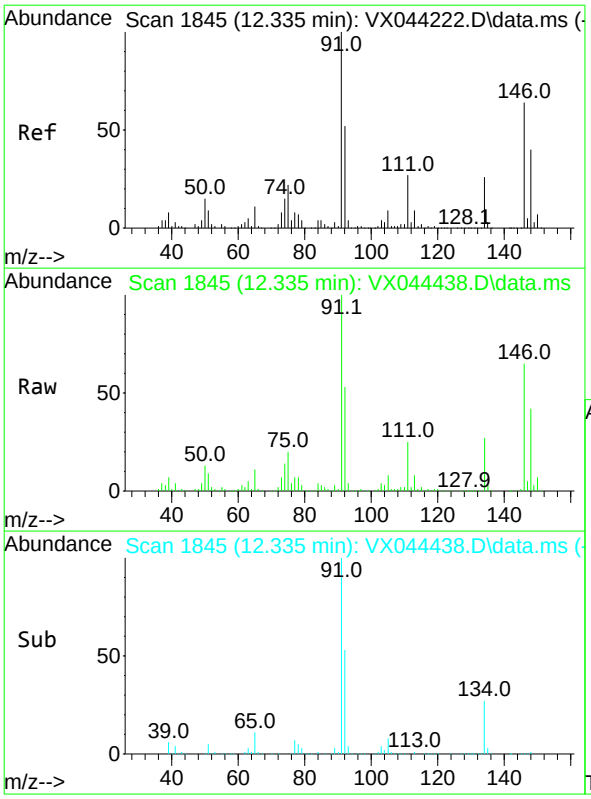


#90
Hexachloroethane
Concen: 57.385 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:117 Resp: 50629

Ion	Ratio	Lower	Upper
117	100		
201	67.2	31.4	94.2

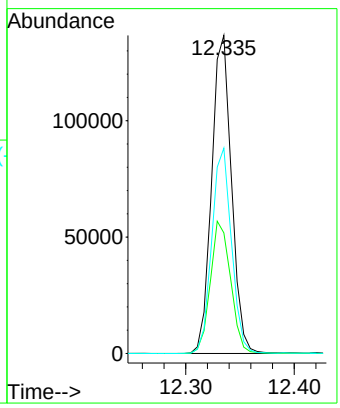




#91
1,2-Dichlorobenzene
Concen: 54.042 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:146 Resp: 173478

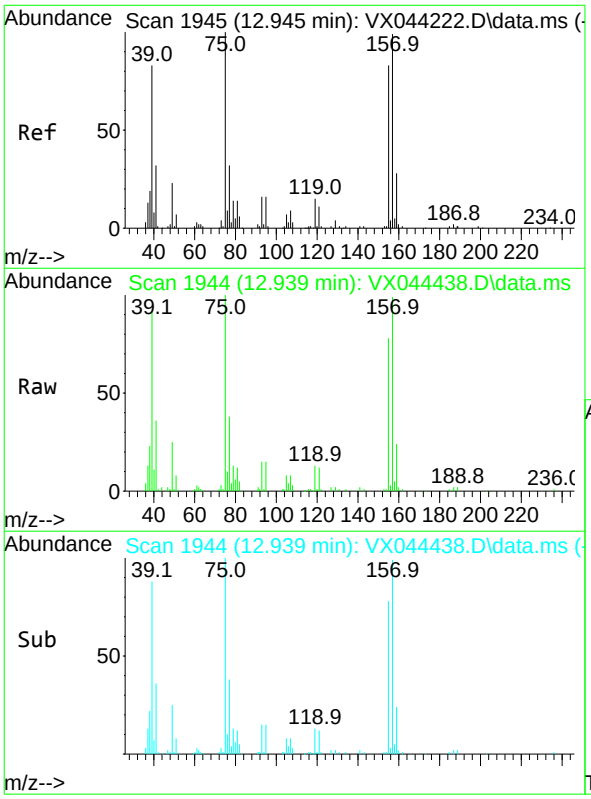
Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.4	64.3
148	64.2	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

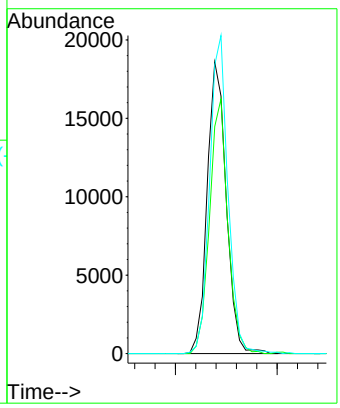
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

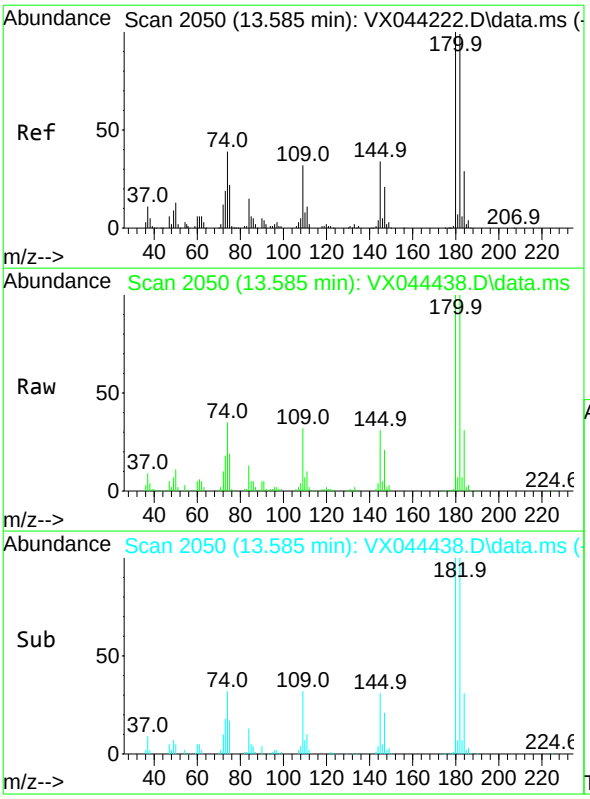


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.022 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 24124

Ion	Ratio	Lower	Upper
75	100		
155	83.8	38.1	114.3
157	105.4	47.2	141.6

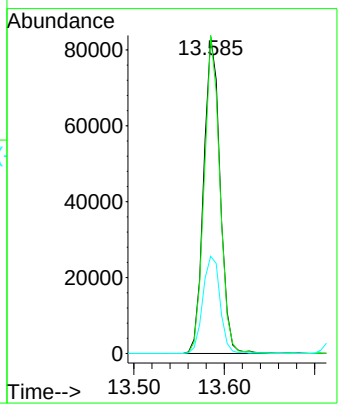




#93
1,2,4-Trichlorobenzene
Concen: 59.504 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:180 Resp: 104720

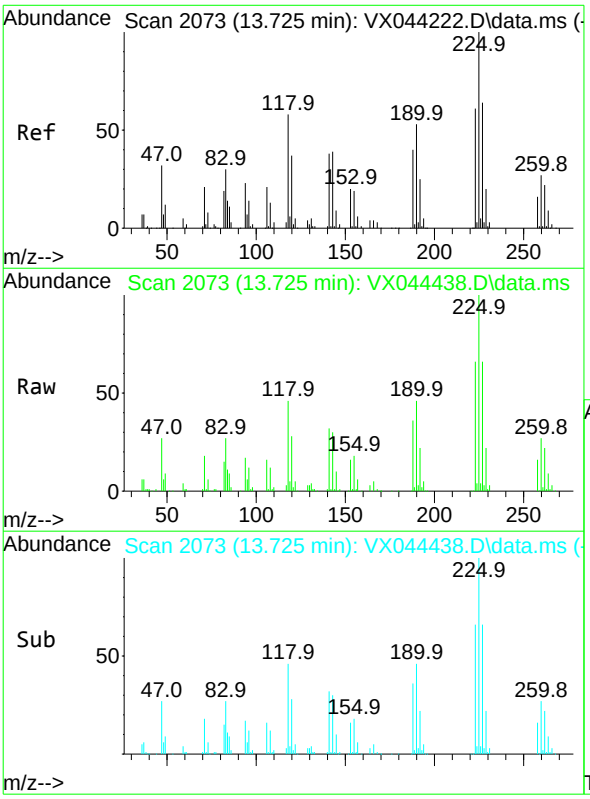
Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.0	144.2
145	32.4	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

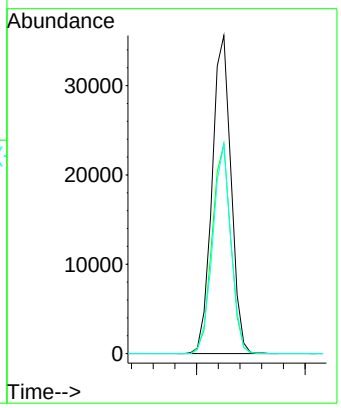
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

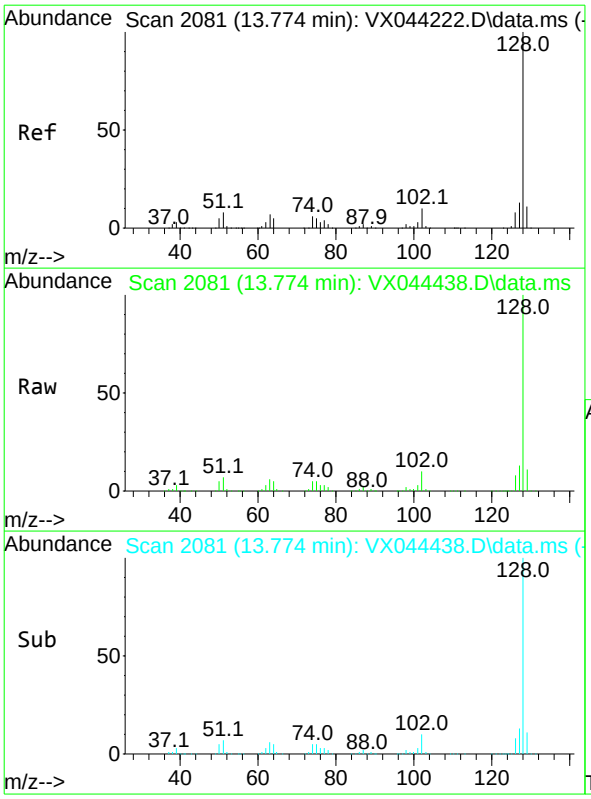


#94
Hexachlorobutadiene
Concen: 60.942 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:225 Resp: 43140

Ion	Ratio	Lower	Upper
225	100		
223	64.7	30.8	92.4
227	63.1	32.1	96.3

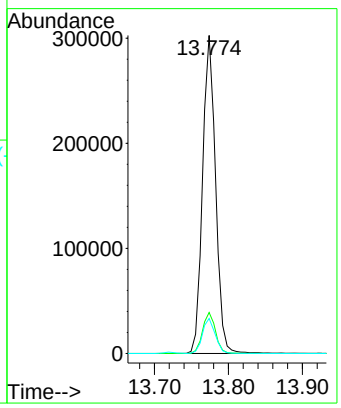




#95
Naphthalene
Concen: 53.772 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:128 Resp: 369385

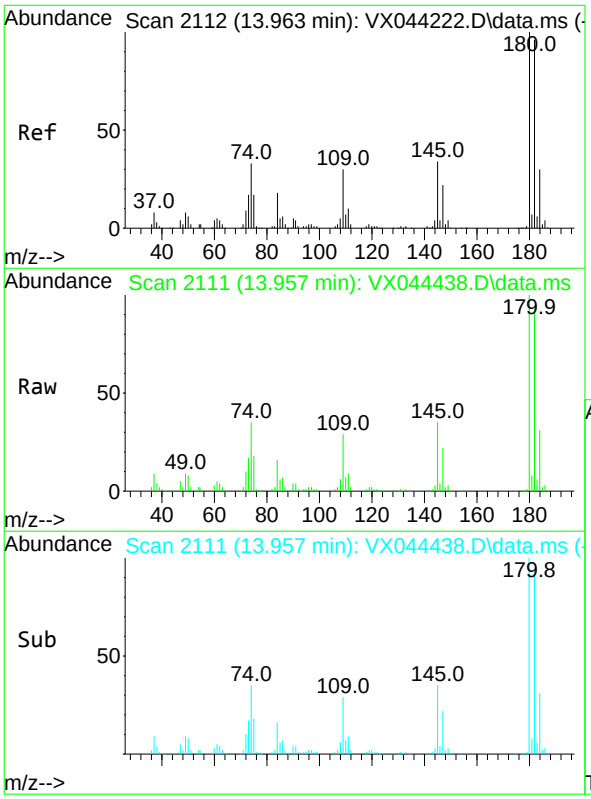
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.9	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

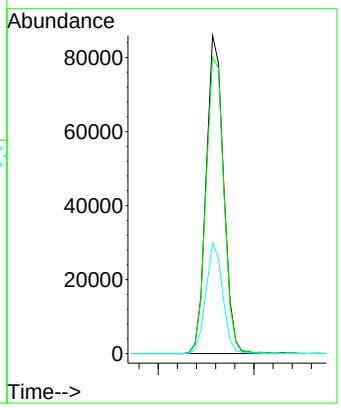
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#96
1,2,3-Trichlorobenzene
Concen: 58.216 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:180 Resp: 108667

Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.0
145	33.6	17.7	53.1



Sample Results: **VX044438.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	0.773	0.854	-10.5	118	0.00
3	P	Chloromethane	0.739	0.782	-5.8	112	0.00
4	C	Vinyl Chloride	0.770	0.798	-3.6#	110	0.00
5	T	Bromomethane	0.546	0.532	2.6	105	0.00
6	T	Chloroethane	0.480	0.473	1.5	97	0.00
7	T	Trichlorofluoromethane	1.508	1.482	1.7	104	0.00
8	T	Diethyl Ether	0.515	0.479	7.0	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.610	0.676	-10.8	119	0.00
10	T	Methyl Iodide	0.804	0.864	-7.5	111	0.00
11	T	Tert butyl alcohol	0.124	0.102	17.7	92	0.00
12	CM	1,1-Dichloroethene	0.560	0.624	-11.4#	114	0.00
13	T	Acrolein	0.179	0.155	13.4	91	0.00
14	T	Allyl chloride	0.933	0.963	-3.2	104	0.00
15	T	Acrylonitrile	0.342	0.335	2.0	102	0.00
16	T	Acetone	0.357	0.291	18.5	83	0.00
17	T	Carbon Disulfide	1.065	1.106	-3.8	104	0.00
18	T	Methyl Acetate	0.922	0.896	2.8	102	0.00
19	T	Methyl tert-butyl Ether	2.187	2.093	4.3	99	0.00
20	T	Methylene Chloride	0.671	0.689	-2.7	109	0.00
21	T	trans-1,2-Dichloroethene	0.596	0.625	-4.9	110	0.00
22	T	Diisopropyl ether	2.102	2.061	2.0	103	0.00
23	T	Vinyl Acetate	1.709	1.772	-3.7	101	0.00
24	P	1,1-Dichloroethane	1.172	1.203	-2.6	105	0.00
25	T	2-Butanone	0.508	0.457	10.0	91	0.00
26	T	2,2-Dichloropropane	0.952	0.990	-4.0	103	0.00
27	T	cis-1,2-Dichloroethene	0.756	0.755	0.1	106	0.00
28	T	Bromochloromethane	0.575	0.553	3.8	101	0.00
29	T	Tetrahydrofuran	0.326	0.297	8.9	96	0.00
30	C	Chloroform	1.316	1.265	3.9#	102	0.00
31	T	Cyclohexane	0.946	1.000	-5.7	111	0.00
32	T	1,1,1-Trichloroethane	1.093	1.099	-0.5	101	0.00
33	S	1,2-Dichloroethane-d4	0.877	0.836	4.7	98	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
35	S	Dibromofluoromethane	0.346	0.392	-13.3	103	0.00
36	T	1,1-Dichloropropene	0.448	0.494	-10.3	108	0.00
37	T	Ethyl Acetate	0.553	0.556	-0.5	93	0.00
38	T	Carbon Tetrachloride	0.482	0.533	-10.6	103	0.00
39	T	Methylcyclohexane	0.535	0.648	-21.1	113	0.00
40	TM	Benzene	1.359	1.529	-12.5	105	0.00
41	T	Methacrylonitrile	0.294	0.296	-0.7	95	0.00
42	TM	1,2-Dichloroethane	0.560	0.586	-4.6	97	0.00
43	T	Isopropyl Acetate	0.865	0.883	-2.1	93	0.00
44	TM	Trichloroethene	0.339	0.388	-14.5	108	0.00
45	C	1,2-Dichloropropane	0.347	0.369	-6.3#	100	0.00
46	T	Dibromomethane	0.269	0.300	-11.5	102	0.00
47	T	Bromodichloromethane	0.465	0.525	-12.9	100	0.00
48	T	Methyl methacrylate	0.420	0.416	1.0	91	0.00

Sample Results: **VX044438.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.006	14.3	81	0.00
50	S	Toluene-d8	1.168	1.318	-12.8	102	0.00
51	T	4-Methyl-2-Pentanone	0.556	0.573	-3.1	94	0.00
52	CM	Toluene	0.853	0.924	-8.3#	102	0.00
53	T	t-1,3-Dichloropropene	0.455	0.517	-13.6	97	0.00
54	T	cis-1,3-Dichloropropene	0.507	0.577	-13.8	99	0.00
55	T	1,1,2-Trichloroethane	0.339	0.374	-10.3	101	0.00
56	T	Ethyl methacrylate	0.535	0.576	-7.7	97	0.00
57	T	1,3-Dichloropropane	0.590	0.635	-7.6	100	0.00
58	T	2-Chloroethyl Vinyl ether	0.270	0.272	-0.7	90	0.00
59	T	2-Hexanone	0.403	0.414	-2.7	91	0.00
60	T	Dibromochloromethane	0.326	0.381	-16.9	100	0.00
61	T	1,2-Dibromoethane	0.345	0.385	-11.6	101	0.00
62	S	4-Bromofluorobenzene	0.408	0.454	-11.3	100	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
64	T	Tetrachloroethene	0.332	0.378	-13.9	113	0.00
65	PM	Chlorobenzene	1.071	1.187	-10.8	105	0.00
66	T	1,1,1,2-Tetrachloroethane	0.344	0.392	-14.0	101	0.00
67	C	Ethyl Benzene	1.851	2.034	-9.9#	102	0.00
68	T	m/p-Xylenes	0.679	0.780	-14.9	106	0.00
69	T	o-Xylene	0.687	0.748	-8.9	102	0.00
70	T	Styrene	1.102	1.275	-15.7	106	0.00
71	P	Bromoform	0.219	0.266	-21.5	104	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73	T	Isopropylbenzene	3.828	4.095	-7.0	105	0.00
74	T	N-amyl acetate	1.769	1.800	-1.8	94	0.00
75	P	1,1,2,2-Tetrachloroethane	1.329	1.387	-4.4	104	0.00
76	T	1,2,3-Trichloropropane	1.116	1.131	-1.3	101	0.00
77	T	Bromobenzene	0.928	1.002	-8.0	106	0.00
78	T	n-propylbenzene	4.231	4.632	-9.5	103	0.00
79	T	2-Chlorotoluene	2.736	2.808	-2.6	101	0.00
80	T	1,3,5-Trimethylbenzene	3.174	3.383	-6.6	102	0.00
81	T	trans-1,4-Dichloro-2-butene	0.347	0.368	-6.1	100	0.00
82	T	4-Chlorotoluene	3.030	3.207	-5.8	103	0.00
83	T	tert-Butylbenzene	3.137	3.363	-7.2	103	0.00
84	T	1,2,4-Trimethylbenzene	3.117	3.437	-10.3	105	0.00
85	T	sec-Butylbenzene	3.808	4.188	-10.0	105	0.00
86	T	p-Isopropyltoluene	3.170	3.530	-11.4	106	0.00
87	T	1,3-Dichlorobenzene	1.621	1.811	-11.7	108	0.00
88	T	1,4-Dichlorobenzene	1.667	1.781	-6.8	107	0.00
89	T	n-Butylbenzene	2.665	3.065	-15.0	108	0.00
90	T	Hexachloroethane	0.463	0.531	-14.7	105	0.00
91	T	1,2-Dichlorobenzene	1.683	1.820	-8.1	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.258	0.253	1.9	93	0.00
93	T	1,2,4-Trichlorobenzene	0.923	1.098	-19.0	112	0.00
94	T	Hexachlorobutadiene	0.371	0.452	-21.8	123	0.00
95	T	Naphthalene	3.603	3.874	-7.5	101	0.00

Sample Results: **VX044438.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.979	1.140	-16.4	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VX044438.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	50.000	55.219	-10.4	118	0.00
3	P	Chloromethane	50.000	52.856	-5.7	112	0.00
4	C	Vinyl Chloride	50.000	51.825	-3.7#	110	0.00
5	T	Bromomethane	50.000	48.640	2.7	105	0.00
6	T	Chloroethane	50.000	49.350	1.3	97	0.00
7	T	Trichlorofluoromethane	50.000	49.144	1.7	104	0.00
8	T	Diethyl Ether	50.000	46.573	6.9	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	55.436	-10.9	119	0.00
10	T	Methyl Iodide	50.000	53.737	-7.5	111	0.00
11	T	Tert butyl alcohol	250.000	207.237	17.1	92	0.00
12	CM	1,1-Dichloroethene	50.000	55.650	-11.3#	114	0.00
13	T	Acrolein	250.000	216.034	13.6	91	0.00
14	T	Allyl chloride	50.000	51.595	-3.2	104	0.00
15	T	Acrylonitrile	250.000	245.064	2.0	102	0.00
16	T	Acetone	250.000	203.262	18.7	83	0.00
17	T	Carbon Disulfide	50.000	51.902	-3.8	104	0.00
18	T	Methyl Acetate	50.000	48.611	2.8	102	0.00
19	T	Methyl tert-butyl Ether	50.000	47.845	4.3	99	0.00
20	T	Methylene Chloride	50.000	51.347	-2.7	109	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.474	-4.9	110	0.00
22	T	Diisopropyl ether	50.000	49.031	1.9	103	0.00
23	T	Vinyl Acetate	250.000	259.287	-3.7	101	0.00
24	P	1,1-Dichloroethane	50.000	51.322	-2.6	105	0.00
25	T	2-Butanone	250.000	225.066	10.0	91	0.00
26	T	2,2-Dichloropropane	50.000	51.979	-4.0	103	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.931	0.1	106	0.00
28	T	Bromochloromethane	50.000	48.128	3.7	101	0.00
29	T	Tetrahydrofuran	250.000	227.599	9.0	96	0.00
30	C	Chloroform	50.000	48.035	3.9#	102	0.00
31	T	Cyclohexane	50.000	52.839	-5.7	111	0.00
32	T	1,1,1-Trichloroethane	50.000	50.298	-0.6	101	0.00
33	S	1,2-Dichloroethane-d4	50.000	47.679	4.6	98	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	97	0.00
35	S	Dibromofluoromethane	50.000	56.586	-13.2	103	0.00
36	T	1,1-Dichloropropene	50.000	55.205	-10.4	108	0.00
37	T	Ethyl Acetate	50.000	50.217	-0.4	93	0.00
38	T	Carbon Tetrachloride	50.000	55.304	-10.6	103	0.00
39	T	Methylcyclohexane	50.000	60.512	-21.0	113	0.00
40	TM	Benzene	50.000	56.259	-12.5	105	0.00
41	T	Methacrylonitrile	50.000	50.310	-0.6	95	0.00
42	TM	1,2-Dichloroethane	50.000	52.362	-4.7	97	0.00
43	T	Isopropyl Acetate	50.000	51.076	-2.2	93	0.00
44	TM	Trichloroethene	50.000	57.285	-14.6	108	0.00
45	C	1,2-Dichloropropane	50.000	53.131	-6.3#	100	0.00
46	T	Dibromomethane	50.000	55.676	-11.4	102	0.00
47	T	Bromodichloromethane	50.000	56.402	-12.8	100	0.00
48	T	Methyl methacrylate	50.000	49.554	0.9	91	0.00

Sample Results: **VX044438.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	906.120	9.4	81	0.00
50	S	Toluene-d8	50.000	56.385	-12.8	102	0.00
51	T	4-Methyl-2-Pentanone	250.000	257.494	-3.0	94	0.00
52	CM	Toluene	50.000	54.120	-8.2#	102	0.00
53	T	t-1,3-Dichloropropene	50.000	51.640	-3.3	97	0.00
54	T	cis-1,3-Dichloropropene	50.000	56.913	-13.8	99	0.00
55	T	1,1,2-Trichloroethane	50.000	55.124	-10.2	101	0.00
56	T	Ethyl methacrylate	50.000	53.800	-7.6	97	0.00
57	T	1,3-Dichloropropane	50.000	53.824	-7.6	100	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	252.070	-0.8	90	0.00
59	T	2-Hexanone	250.000	256.860	-2.7	91	0.00
60	T	Dibromochloromethane	50.000	52.901	-5.8	100	0.00
61	T	1,2-Dibromoethane	50.000	55.721	-11.4	101	0.00
62	S	4-Bromofluorobenzene	50.000	55.640	-11.3	100	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	96	0.00
64	T	Tetrachloroethene	50.000	57.001	-14.0	113	0.00
65	PM	Chlorobenzene	50.000	55.402	-10.8	105	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	56.959	-13.9	101	0.00
67	C	Ethyl Benzene	50.000	54.936	-9.9#	102	0.00
68	T	m/p-Xylenes	100.000	114.771	-14.8	106	0.00
69	T	o-Xylene	50.000	54.389	-8.8	102	0.00
70	T	Styrene	50.000	57.862	-15.7	106	0.00
71	P	Bromoform	50.000	54.671	-9.3	104	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73	T	Isopropylbenzene	50.000	53.495	-7.0	105	0.00
74	T	N-amyl acetate	50.000	50.885	-1.8	94	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.145	-4.3	104	0.00
76	T	1,2,3-Trichloropropane	50.000	50.641	-1.3	101	0.00
77	T	Bromobenzene	50.000	53.953	-7.9	106	0.00
78	T	n-propylbenzene	50.000	54.741	-9.5	103	0.00
79	T	2-Chlorotoluene	50.000	51.311	-2.6	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.284	-6.6	102	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	47.498	5.0	100	0.00
82	T	4-Chlorotoluene	50.000	52.929	-5.9	103	0.00
83	T	tert-Butylbenzene	50.000	53.600	-7.2	103	0.00
84	T	1,2,4-Trimethylbenzene	50.000	55.123	-10.2	105	0.00
85	T	sec-Butylbenzene	50.000	54.989	-10.0	105	0.00
86	T	p-Isopropyltoluene	50.000	55.691	-11.4	106	0.00
87	T	1,3-Dichlorobenzene	50.000	55.839	-11.7	108	0.00
88	T	1,4-Dichlorobenzene	50.000	53.422	-6.8	107	0.00
89	T	n-Butylbenzene	50.000	57.503	-15.0	108	0.00
90	T	Hexachloroethane	50.000	57.385	-14.8	105	0.00
91	T	1,2-Dichlorobenzene	50.000	54.042	-8.1	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.022	2.0	93	0.00
93	T	1,2,4-Trichlorobenzene	50.000	59.504	-19.0	112	0.00
94	T	Hexachlorobutadiene	50.000	60.942	-21.9	123	0.00
95	T	Naphthalene	50.000	53.772	-7.5	101	0.00

Sample Results: **VX044438.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	58.216	-16.4	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VX044464.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 19:49

Lab File ID: VX044464.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.744		-3.75	50
Chloromethane	0.739	0.696	0.1	-5.82	50
Vinyl Chloride	0.770	0.730		-5.2	50
Bromomethane	0.546	0.498		-8.79	50
Chloroethane	0.480	0.507		5.63	50
Trichlorofluoromethane	1.508	1.202		-20.29	50
1,1,2-Trichlorotrifluoroethane	0.610	0.590		-3.28	50
1,1-Dichloroethene	0.560	0.560		0	50
Acetone	0.357	0.270		-24.37	50
Carbon Disulfide	1.065	1.089		2.25	50
Methyl tert-butyl Ether	2.187	1.972		-9.83	50
Methyl Acetate	0.922	0.860		-6.72	50
Methylene Chloride	0.671	0.636		-5.22	50
trans-1,2-Dichloroethene	0.596	0.578		-3.02	50
1,1-Dichloroethane	1.172	1.125	0.1	-4.01	50
Cyclohexane	0.946	0.871		-7.93	50
2-Butanone	0.508	0.433		-14.76	50
Carbon Tetrachloride	0.482	0.495		2.7	50
cis-1,2-Dichloroethene	0.756	0.719		-4.89	50
Bromochloromethane	0.575	0.510		-11.3	50
Chloroform	1.316	1.190		-9.57	50
1,1,1-Trichloroethane	1.093	1.029		-5.86	50
Methylcyclohexane	0.535	0.550		2.8	50
Benzene	1.359	1.393		2.5	50
1,2-Dichloroethane	0.560	0.534		-4.64	50
Trichloroethene	0.339	0.360		6.2	50
1,2-Dichloropropane	0.347	0.345		-0.58	50
Bromodichloromethane	0.465	0.491		5.59	50
4-Methyl-2-Pentanone	0.556	0.524		-5.76	50
Toluene	0.853	0.855		0.23	50
t-1,3-Dichloropropene	0.455	0.482		5.93	50
cis-1,3-Dichloropropene	0.507	0.531		4.73	50
1,1,2-Trichloroethane	0.339	0.345		1.77	50
2-Hexanone	0.403	0.381		-5.46	50
Dibromochloromethane	0.326	0.361		10.74	50
1,2-Dibromoethane	0.345	0.366		6.09	50
Tetrachloroethene	0.332	0.343		3.31	50
Chlorobenzene	1.071	1.094	0.3	2.15	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 19:49

Lab File ID: VX044464.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.868		0.92	50
m/p-Xylenes	0.679	0.713		5.01	50
o-Xylene	0.687	0.708		3.06	50
Styrene	1.102	1.163		5.53	50
Bromoform	0.219	0.251	0.1	14.61	50
Isopropylbenzene	3.828	3.829		0.03	50
1,1,2,2-Tetrachloroethane	1.329	1.278	0.3	-3.84	50
1,3-Dichlorobenzene	1.621	1.669		2.96	50
1,4-Dichlorobenzene	1.667	1.653		-0.84	50
1,2-Dichlorobenzene	1.684	1.709		1.49	50
1,2-Dibromo-3-Chloropropane	0.258	0.238		-7.75	50
1,2,4-Trichlorobenzene	0.923	1.000		8.34	50
1,2,3-Trichlorobenzene	0.979	1.036		5.82	50
1,2-Dichloroethane-d4	0.877	0.778		-11.29	50
Dibromofluoromethane	0.346	0.363		4.91	50
Toluene-d8	1.168	1.213		3.85	50
4-Bromofluorobenzene	0.408	0.418		2.45	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Sample Results: **VX044464.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.544	168	140284	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	239068	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.055	117	206477	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	97831	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.952	65	109103	44.357 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 88.720%		
35) Dibromofluoromethane	5.379	113	86675	52.347 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.700%		
50) Toluene-d8	8.647	98	290046	51.923 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.840%		
62) 4-Bromofluorobenzene	11.079	95	99862	51.161 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.320%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	104302	48.084 ug/l	95
3) Chloromethane	1.294	50	97601	47.052 ug/l	99
4) Vinyl Chloride	1.374	62	102407	47.388 ug/l	96
5) Bromomethane	1.593	94	69880	45.581 ug/l	98
6) Chloroethane	1.666	64	71114	52.848 ug/l	97
7) Trichlorofluoromethane	1.868	101	168610	39.855 ug/l	98
8) Diethyl Ether	2.136	74	61643	42.687 ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.313	101	82704	48.311 ug/l	96
10) Methyl Iodide	2.441	142	113213	50.177 ug/l	98
11) Tert butyl alcohol	2.989	59	71333	205.778 ug/l	100
12) 1,1-Dichloroethene	2.306	96	78622	50.001 ug/l	95
13) Acrolein	2.239	56	111786	222.774 ug/l	98
14) Allyl chloride	2.654	41	124514	47.541 ug/l	97
15) Acrylonitrile	3.062	53	217189	226.182 ug/l	98
16) Acetone	2.386	43	189212	188.692 ug/l	95
17) Carbon Disulfide	2.502	76	152826	51.130 ug/l	100
18) Methyl Acetate	2.709	43	120686	46.678 ug/l	97
19) Methyl tert-butyl Ether	3.117	73	276668	45.089 ug/l	99
20) Methylene Chloride	2.782	84	89276	47.401 ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	81078	48.517 ug/l	99
22) Diisopropyl ether	3.764	45	265503	45.018 ug/l	98
23) Vinyl Acetate	3.721	43	1167584	243.510 ug/l	98
24) 1,1-Dichloroethane	3.605	63	157858	48.018 ug/l	99
25) 2-Butanone	4.562	43	303982	213.237 ug/l	98
26) 2,2-Dichloropropane	4.471	77	116211	43.513 ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	100836	47.511 ug/l	95
28) Bromochloromethane	4.891	49	71526	44.369 ug/l	95
29) Tetrahydrofuran	5.007	42	194494	212.557 ug/l	99
30) Chloroform	5.093	83	166909	45.189 ug/l	99
31) Cyclohexane	5.464	56	122203	46.033 ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	144394	47.095 ug/l	99
36) 1,1-Dichloropropene	5.684	75	104911	49.017 ug/l	97
37) Ethyl Acetate	4.721	43	127468	48.180 ug/l	100
38) Carbon Tetrachloride	5.666	117	118357	51.365 ug/l	99
39) Methylcyclohexane	7.373	83	131438	51.370 ug/l	96
40) Benzene	6.031	78	333117	51.262 ug/l	99

Sample Results: **VX044464.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	66592	47.401	ug/l		98
42) 1,2-Dichloroethane	6.080	62	127634	47.680	ug/l		98
43) Isopropyl Acetate	6.342	43	198680	48.047	ug/l		98
44) Trichloroethene	7.117	130	86021	53.083	ug/l		93
45) 1,2-Dichloropropane	7.428	63	82383	49.622	ug/l		96
46) Dibromomethane	7.574	93	65924	51.184	ug/l		94
47) Bromodichloromethane	7.818	83	117278	52.723	ug/l		100
48) Methyl methacrylate	7.690	41	94575	47.115	ug/l		96
49) 1,4-Dioxane	7.659	88	33398	1003.530	ug/l		93
51) 4-Methyl-2-Pentanone	8.574	43	625919	235.413	ug/l		99
52) Toluene	8.714	92	204328	50.071	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	115268	48.388	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	127004	52.437	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	82378	50.814	ug/l		96
56) Ethyl methacrylate	9.116	69	131845	51.516	ug/l		95
57) 1,3-Dichloropropane	9.305	76	140522	49.799	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	314516	243.652	ug/l		98
59) 2-Hexanone	9.433	43	454909	236.376	ug/l		99
60) Dibromochloromethane	9.519	129	86219	50.206	ug/l		99
61) 1,2-Dibromoethane	9.604	107	87547	53.053	ug/l		98
64) Tetrachloroethene	9.269	164	70888	51.727	ug/l		97
65) Chlorobenzene	10.079	112	225888	51.056	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	79060	55.601	ug/l		99
67) Ethyl Benzene	10.189	91	385756	50.462	ug/l		96
68) m/p-Xylenes	10.299	106	294612	105.028	ug/l		95
69) o-Xylene	10.640	106	146149	51.494	ug/l		93
70) Styrene	10.653	104	240058	52.761	ug/l		96
71) Bromoform	10.799	173	51823	51.900	ug/l	#	99
73) Isopropylbenzene	10.957	105	374548	50.011	ug/l		100
74) N-amyl acetate	10.842	43	168135	48.576	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	125030	48.065	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	102028m	46.709	ug/l		
77) Bromobenzene	11.195	156	94262	51.903	ug/l		94
78) n-propylbenzene	11.305	91	417465	50.432	ug/l		98
79) 2-Chlorotoluene	11.360	91	253139	47.285	ug/l		96
80) 1,3,5-Trimethylbenzene	11.451	105	309218	49.787	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	32407	43.348	ug/l		95
82) 4-Chlorotoluene	11.451	91	289306	48.802	ug/l		98
83) tert-Butylbenzene	11.713	119	312731	50.950	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	308415	50.564	ug/l		98
85) sec-Butylbenzene	11.890	105	376639	50.546	ug/l		99
86) p-Isopropyltoluene	12.006	119	319422	51.504	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	163311	51.480	ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	161681	49.579	ug/l		98
89) n-Butylbenzene	12.329	91	261860	50.212	ug/l		99
90) Hexachloroethane	12.536	117	47928	52.940	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	167214	50.764	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	23250	46.042	ug/l		87
93) 1,2,4-Trichlorobenzene	13.585	180	97858	54.188	ug/l		98
94) Hexachlorobutadiene	13.725	225	40506	55.763	ug/l		98
95) Naphthalene	13.774	128	343151	48.680	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	101400	52.939	ug/l		98

Sample Results: **VX044464.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VX044464.D**

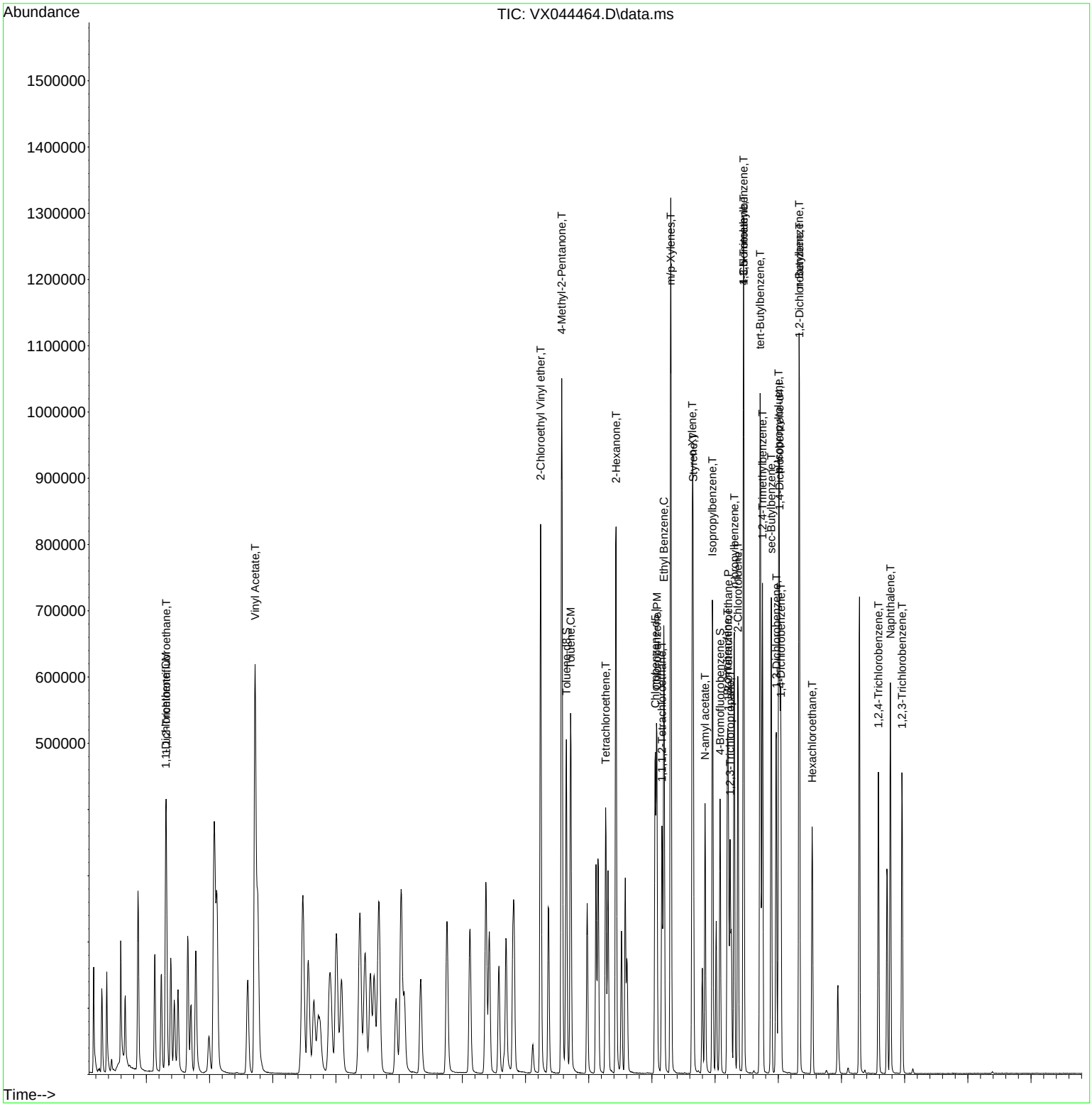
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

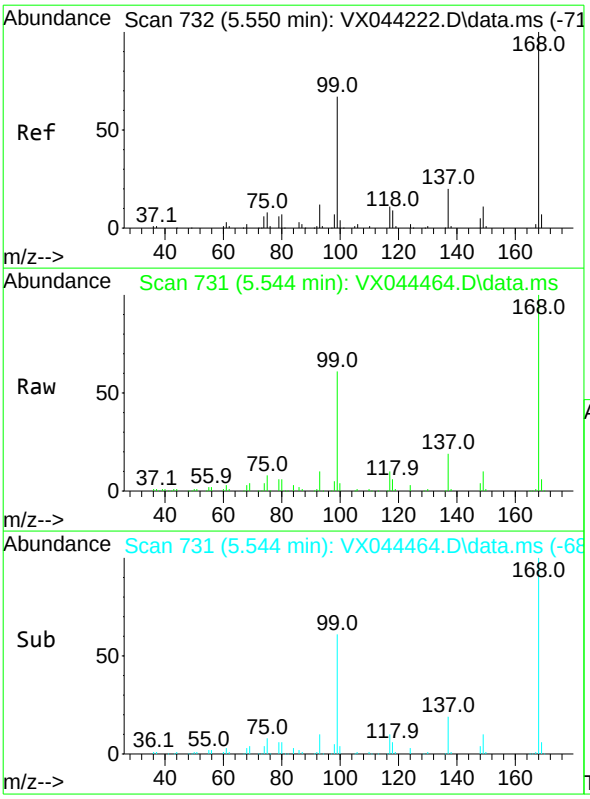
Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

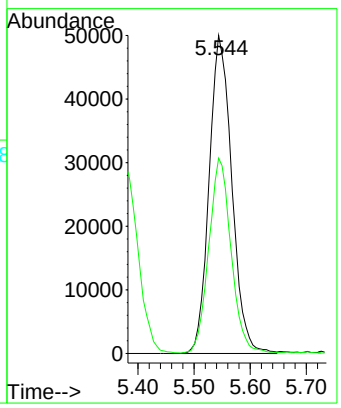




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:168 Resp: 140284

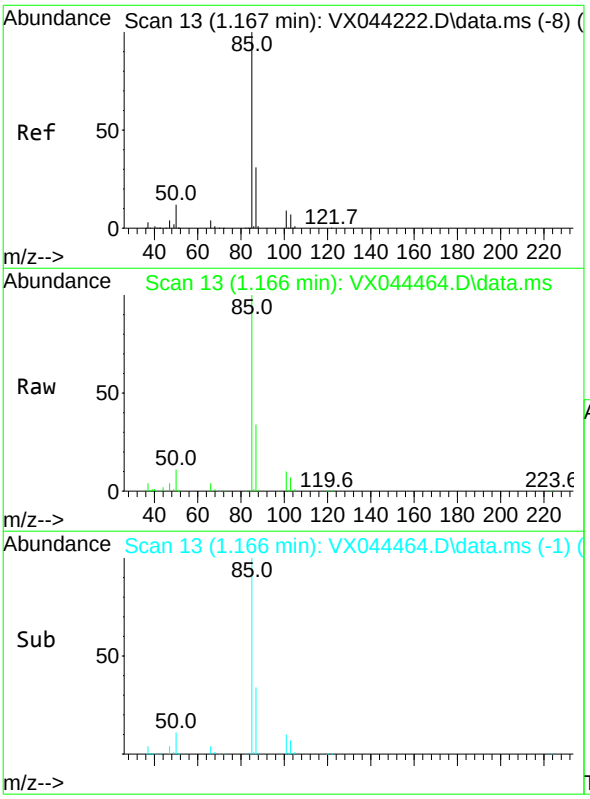
Ion	Ratio	Lower	Upper
168	100		
99	61.2	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

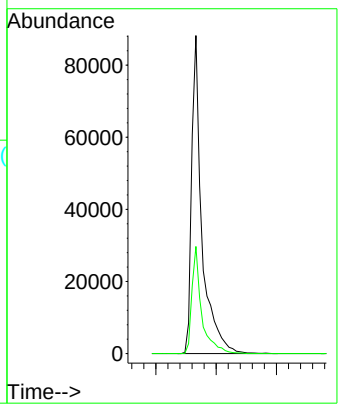
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

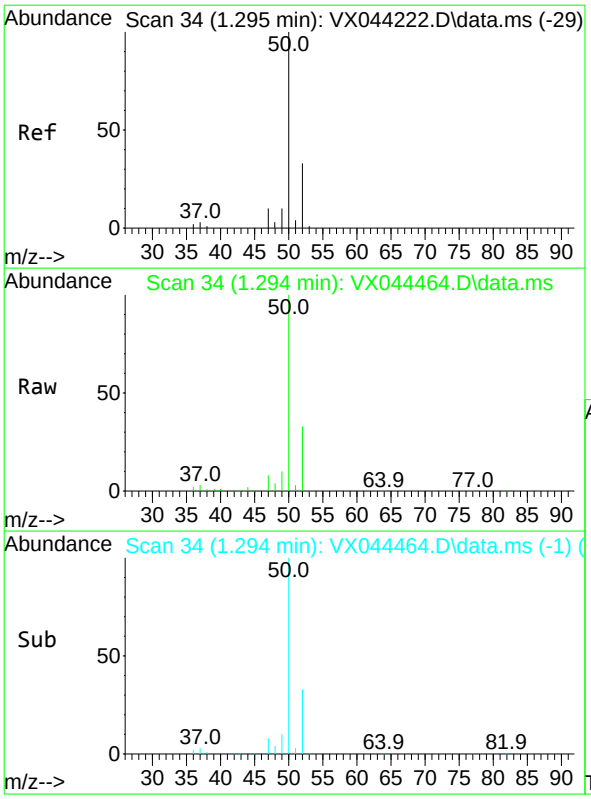


#2
Dichlorodifluoromethane
Concen: 48.084 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 85 Resp: 104302

Ion	Ratio	Lower	Upper
85	100		
87	33.7	15.4	46.4

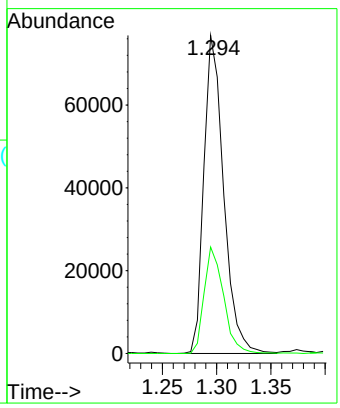




#3
Chloromethane
Concen: 47.052 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 50 Resp: 97601

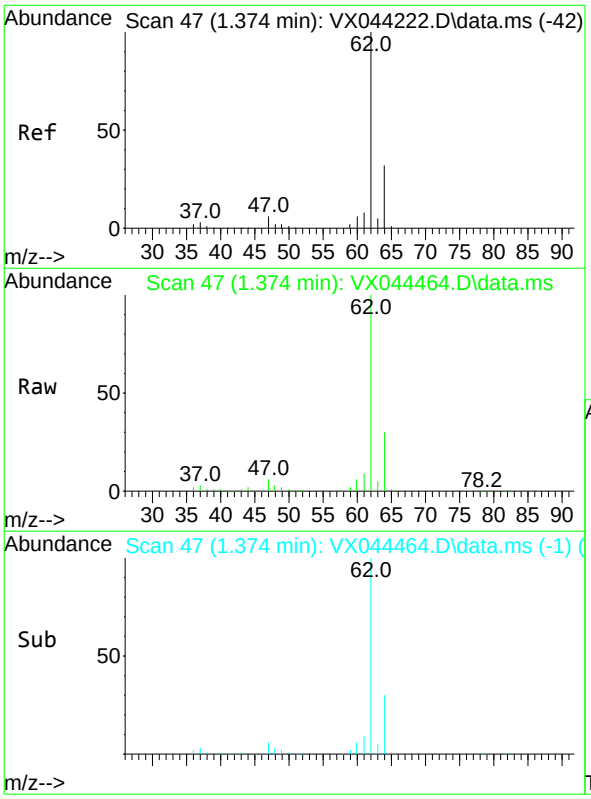
Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

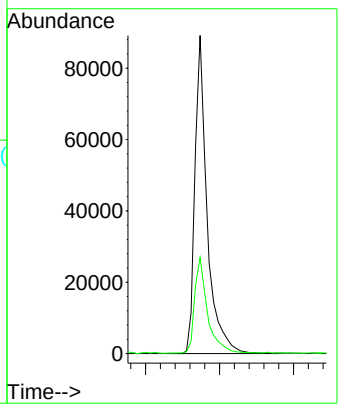
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

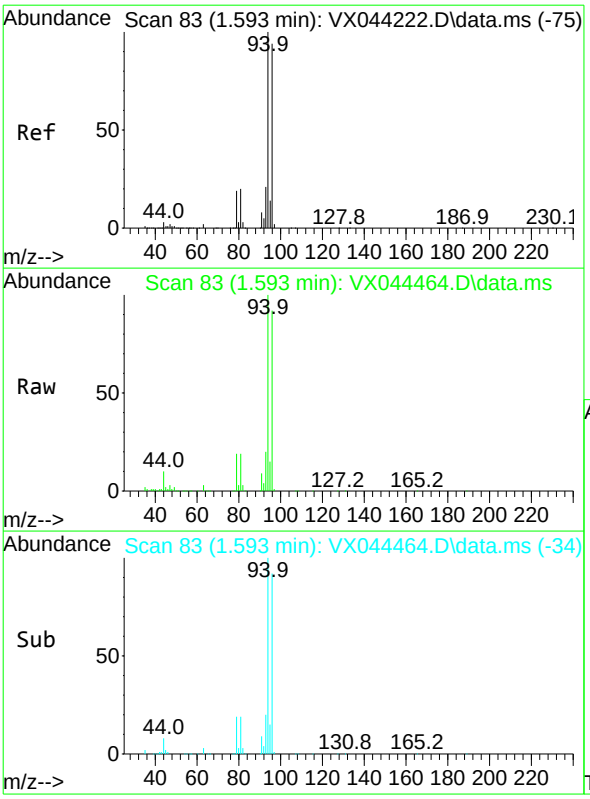


#4
Vinyl Chloride
Concen: 47.388 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 62 Resp: 102407

Ion	Ratio	Lower	Upper
62	100		
64	30.0	25.7	38.5

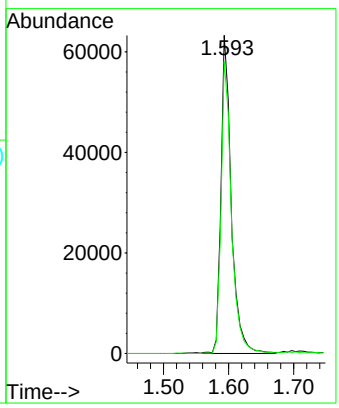




#5
Bromomethane
Concen: 45.581 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 94 Resp: 69880

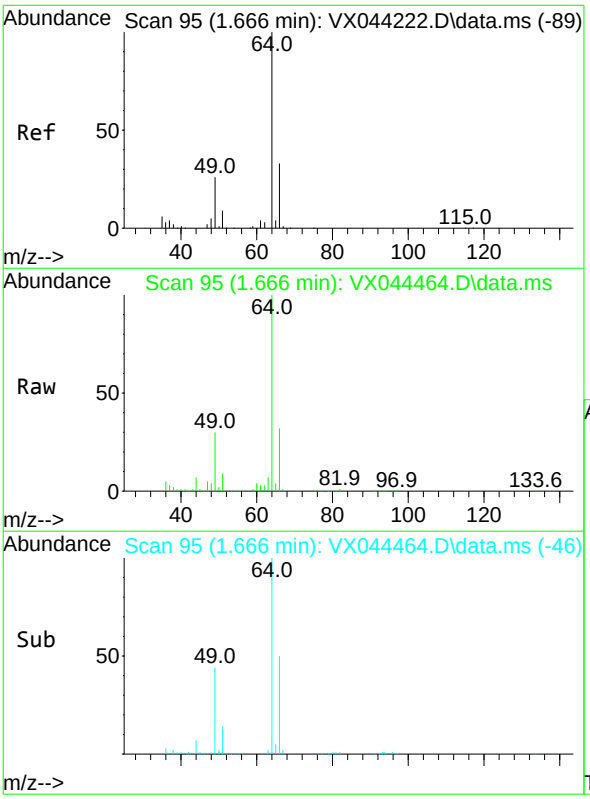
Ion	Ratio	Lower	Upper
94	100		
96	91.7	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

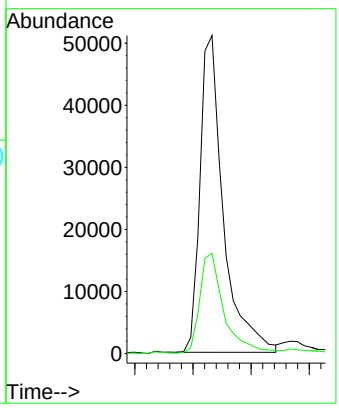
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

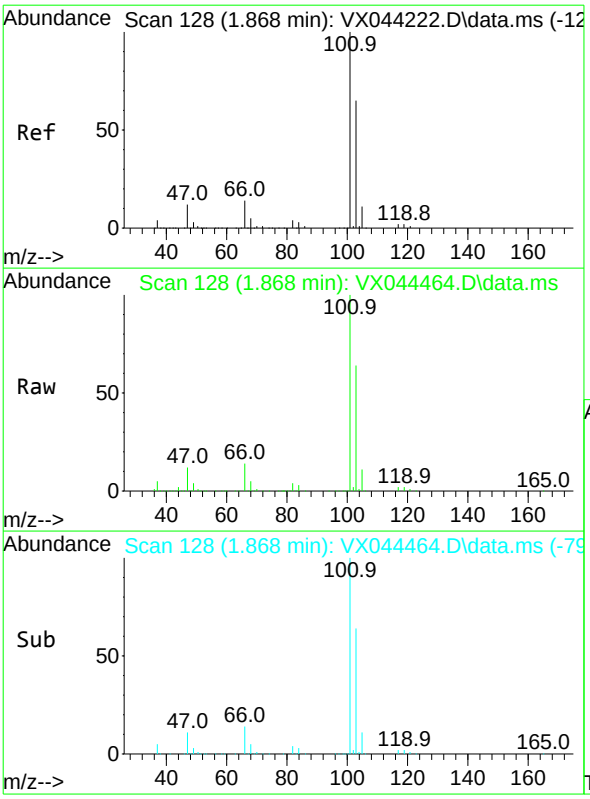


#6
Chloroethane
Concen: 52.848 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 64 Resp: 71114

Ion	Ratio	Lower	Upper
64	100		
66	31.5	26.6	39.8

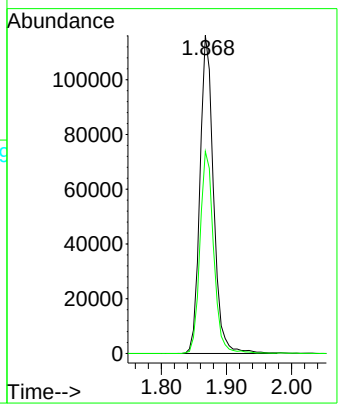




#7
Trichlorofluoromethane
Concen: 39.855 ug/l
RT: 1.868 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:101 Resp: 168610

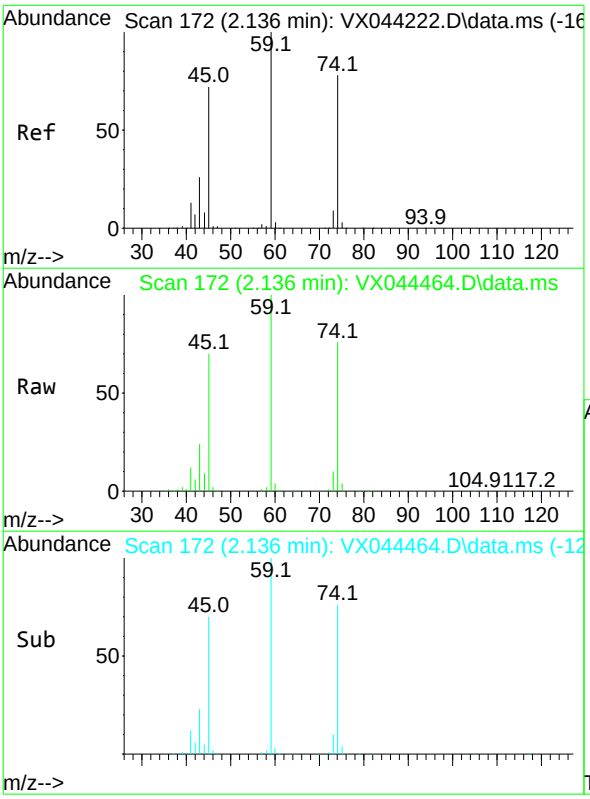
Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

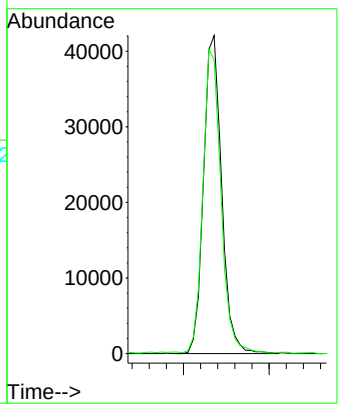
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

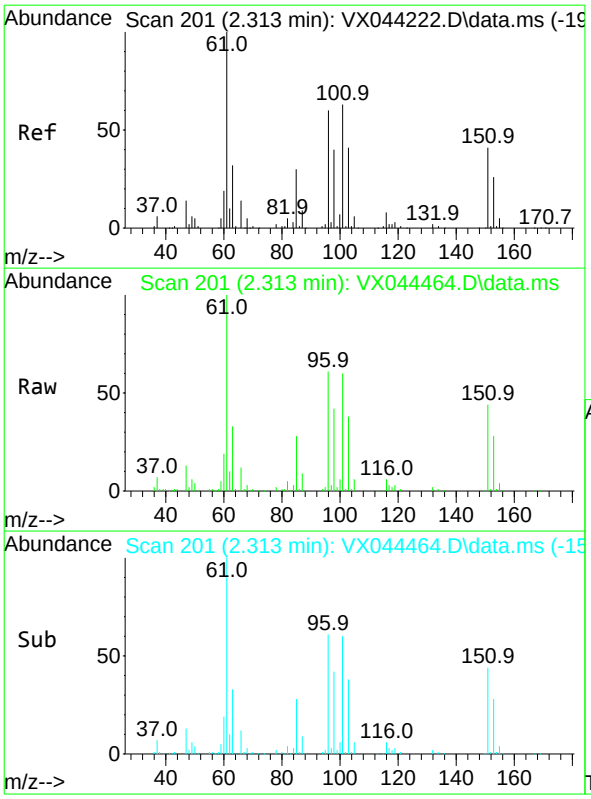


#8
Diethyl Ether
Concen: 42.687 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 74 Resp: 61643

Ion	Ratio	Lower	Upper
74	100		
45	94.9	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.311 ug/l
RT: 2.313 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

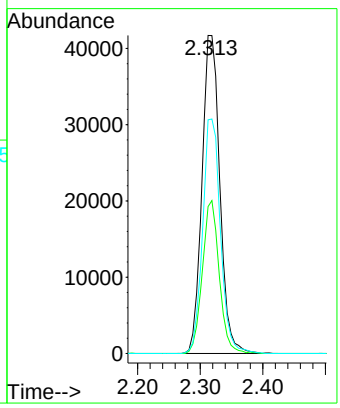
Tgt Ion:101 Resp: 82704

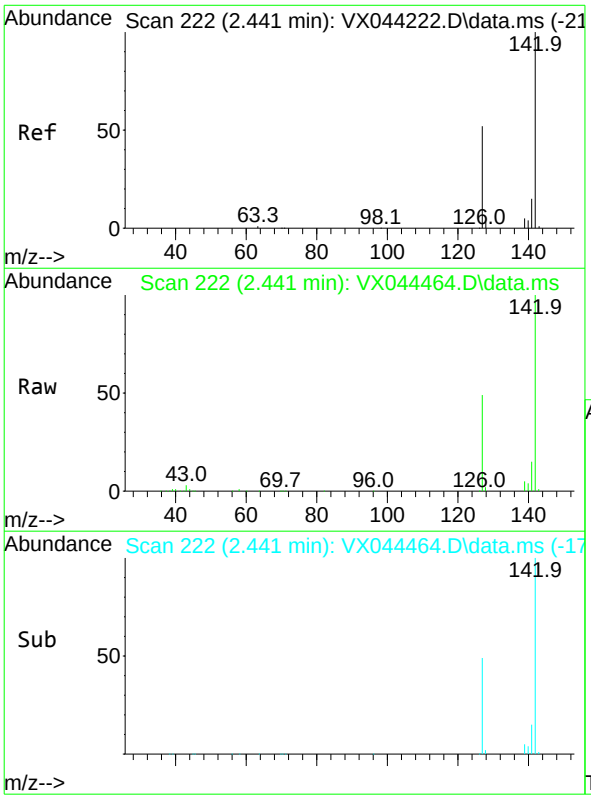
Ion	Ratio	Lower	Upper
101	100		
85	45.4	38.5	57.7
151	73.6	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

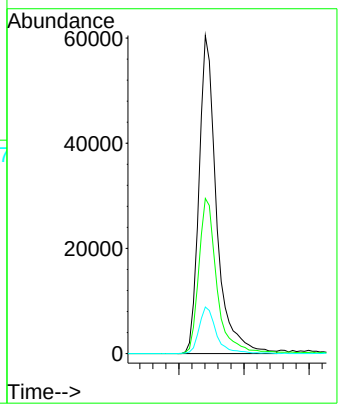


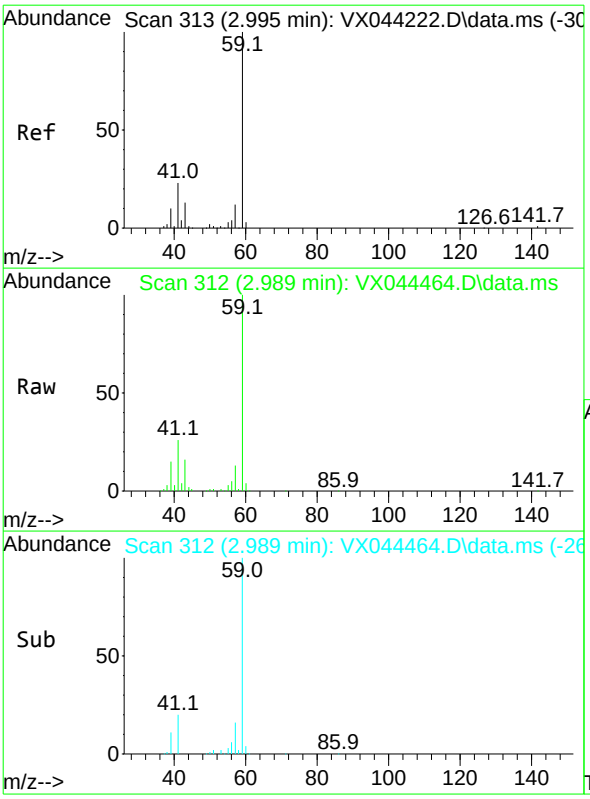


#10
Methyl Iodide
Concen: 50.177 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:142 Resp: 113213

Ion	Ratio	Lower	Upper
142	100		
127	50.5	41.8	62.8
141	14.5	11.5	17.3

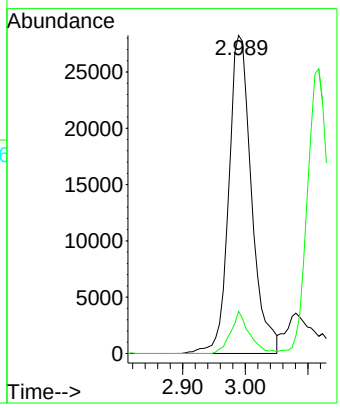




#11
Tert butyl alcohol
Concen: 205.778 ug/l
RT: 2.989 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 59 Resp: 71333

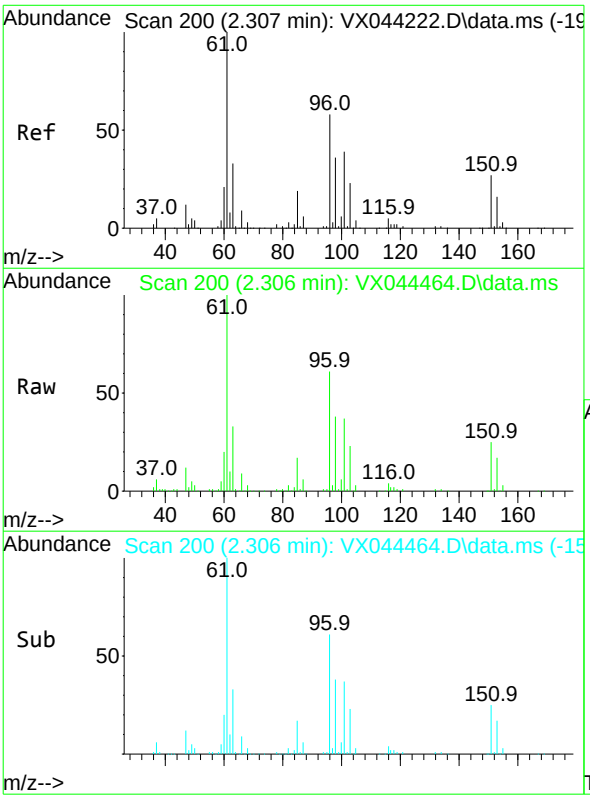
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

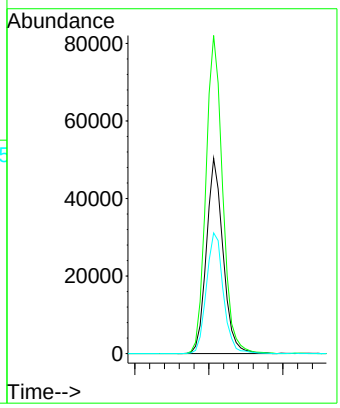
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

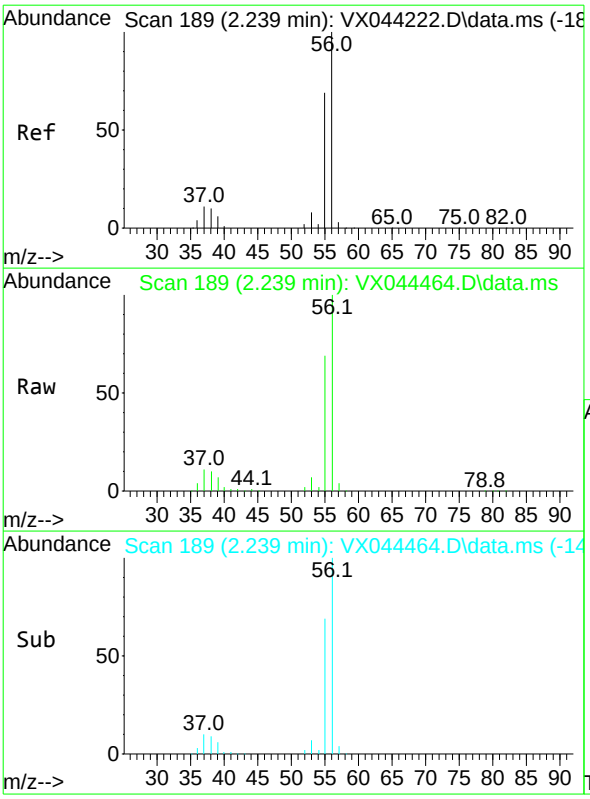


#12
1,1-Dichloroethene
Concen: 50.001 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 96 Resp: 78622

Ion	Ratio	Lower	Upper
96	100		
61	162.8	138.0	207.0
98	61.8	50.0	75.0

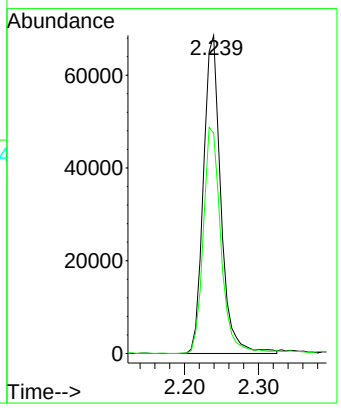




#13
Acrolein
Concen: 222.774 ug/l
RT: 2.239 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 56 Resp: 111786

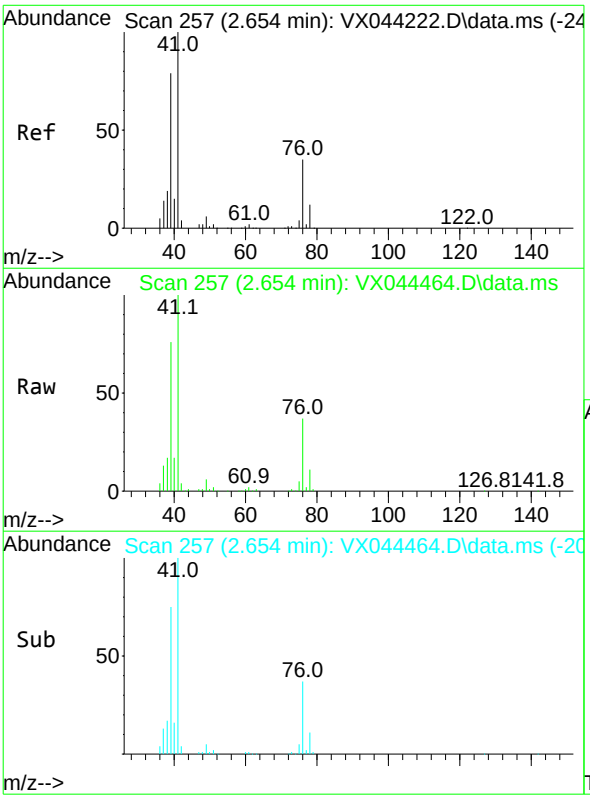
Ion	Ratio	Lower	Upper
56	100		
55	72.3	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

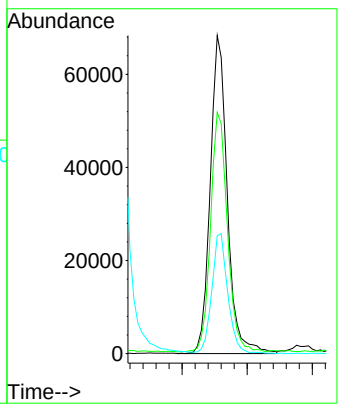
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

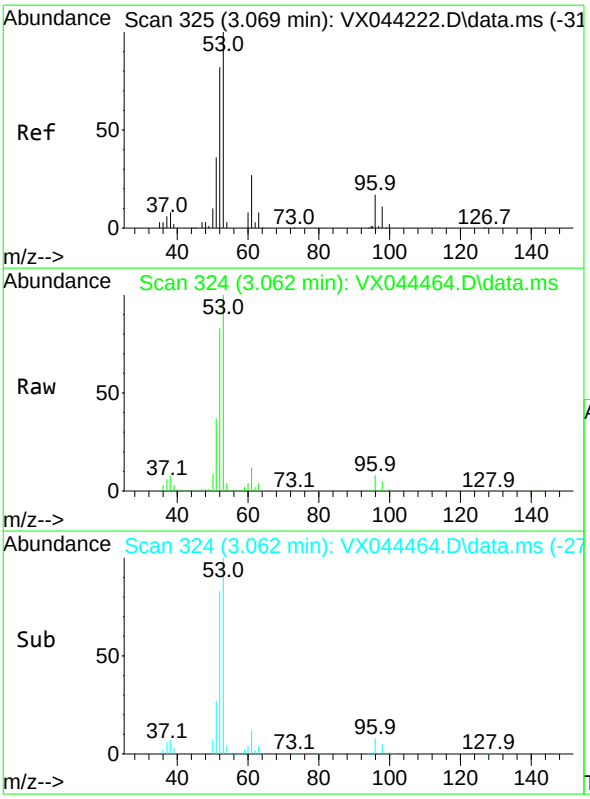


#14
Allyl chloride
Concen: 47.541 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 41 Resp: 124514

Ion	Ratio	Lower	Upper
41	100		
39	74.1	61.9	92.9
76	35.4	27.4	41.2

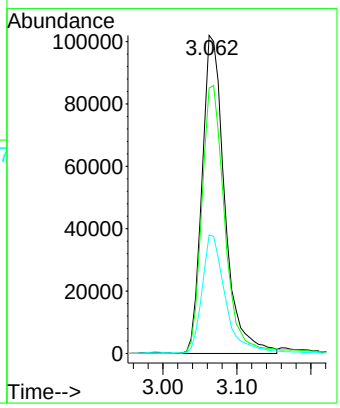




#15
Acrylonitrile
Concen: 226.182 ug/l
RT: 3.062 min Scan# 32
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 53 Resp: 217189

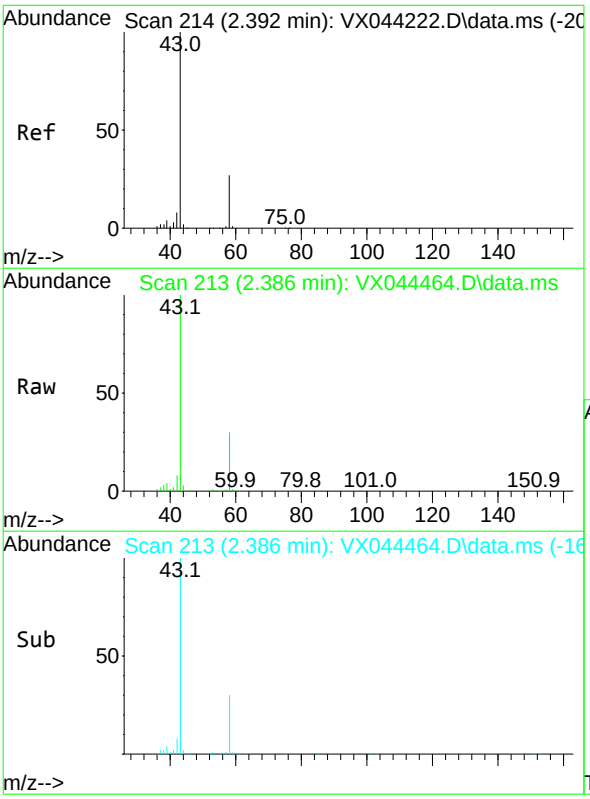
Ion	Ratio	Lower	Upper
53	100		
52	86.6	67.4	101.0
51	38.5	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

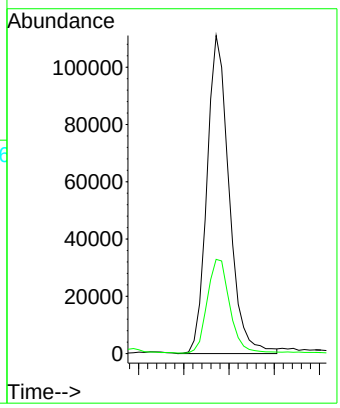
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

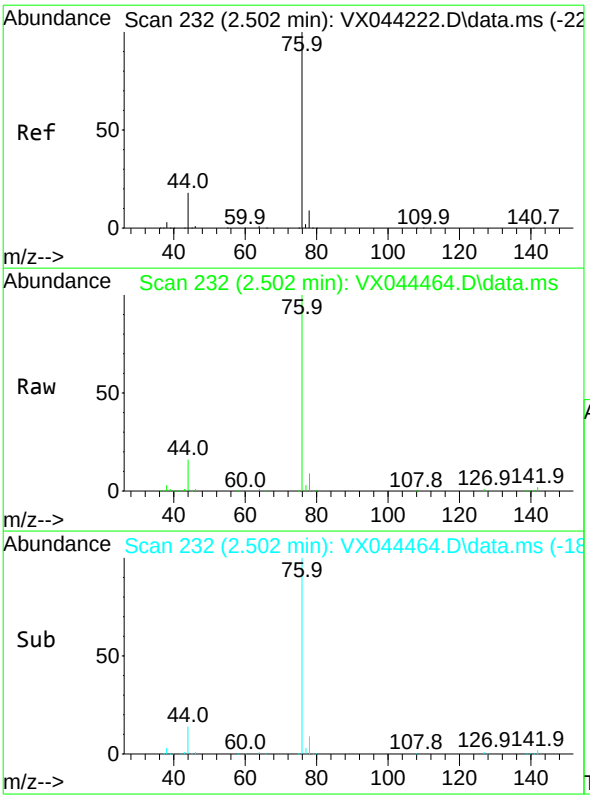


#16
Acetone
Concen: 188.692 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 189212

Ion	Ratio	Lower	Upper
43	100		
58	29.4	21.6	32.4

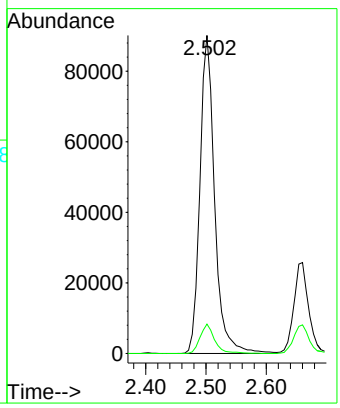




#17
Carbon Disulfide
Concen: 51.130 ug/l
RT: 2.502 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 76 Resp: 152826

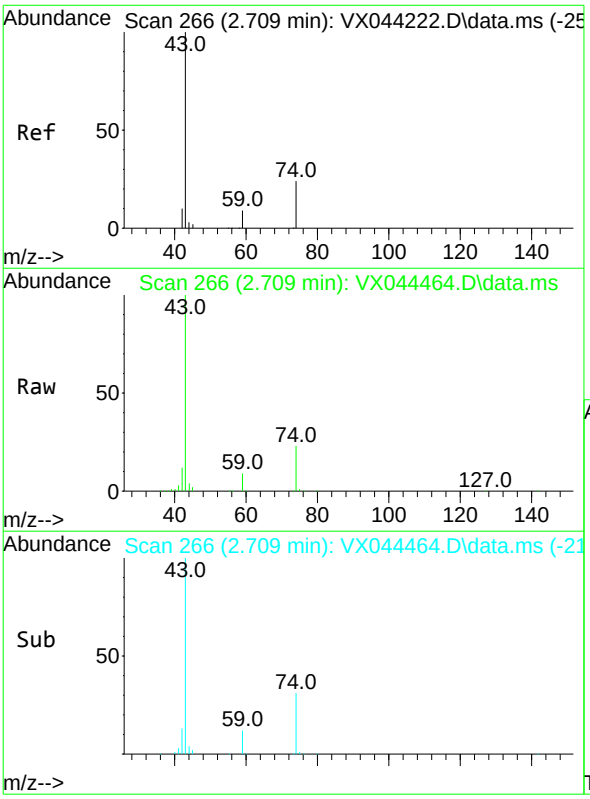
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

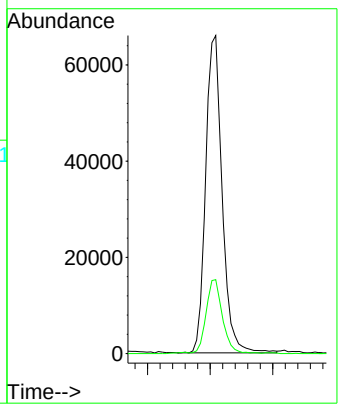
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

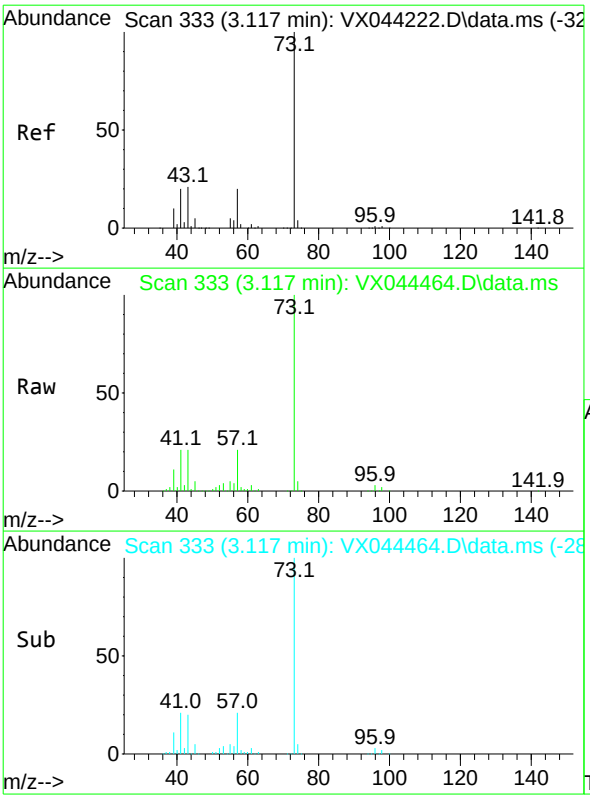


#18
Methyl Acetate
Concen: 46.678 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 120686

Ion	Ratio	Lower	Upper
43	100		
74	23.4	17.7	26.5

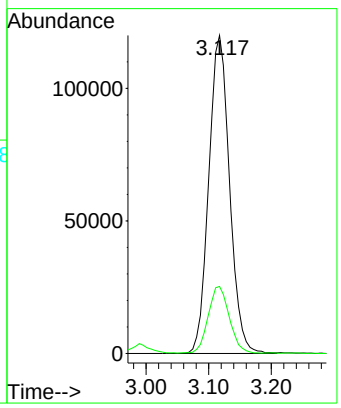




#19
Methyl tert-butyl Ether
Concen: 45.089 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 73 Resp: 276668

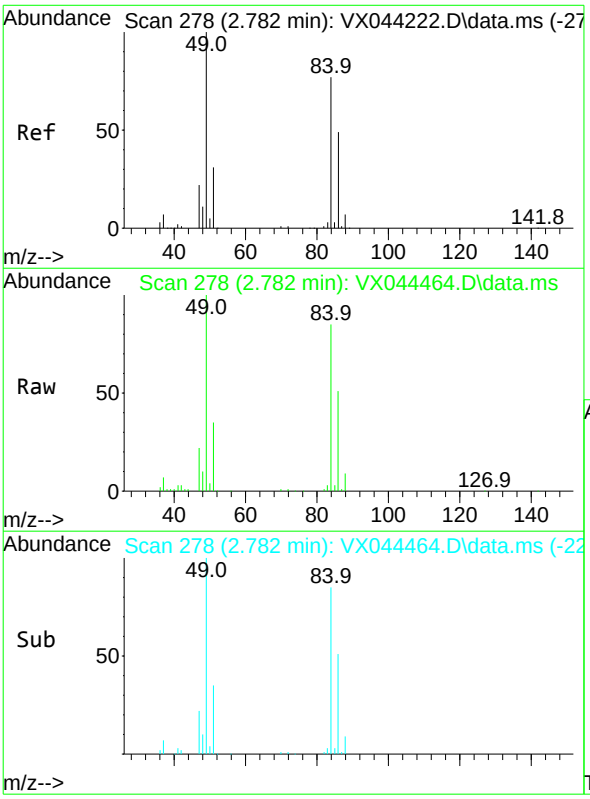
Ion	Ratio	Lower	Upper
73	100		
57	21.0	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

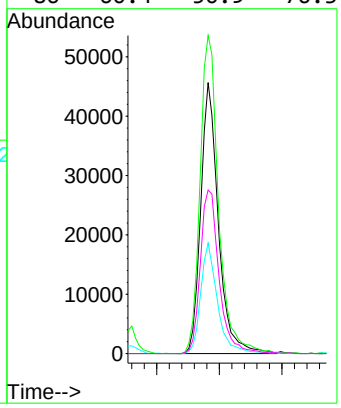
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

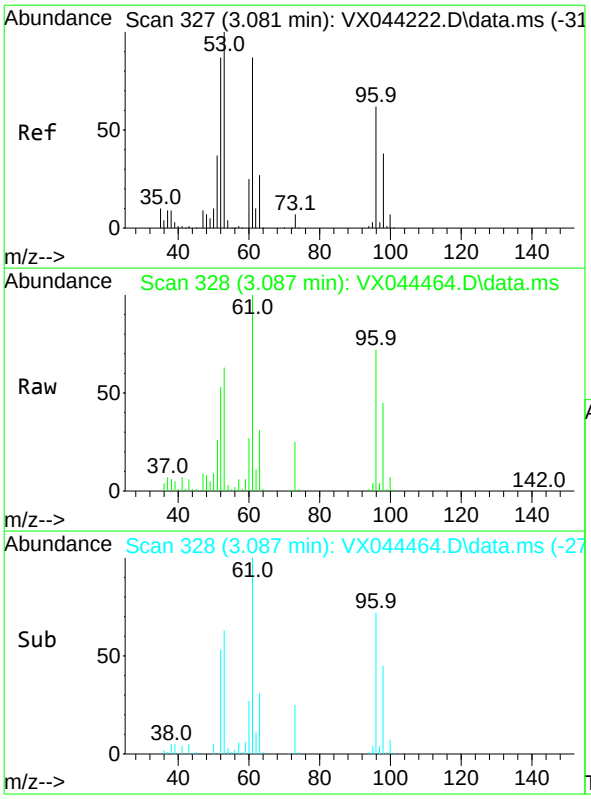


#20
Methylene Chloride
Concen: 47.401 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 84 Resp: 89276

Ion	Ratio	Lower	Upper
84	100		
49	117.4	104.2	156.4
51	40.8	32.2	48.4
86	60.4	50.9	76.3

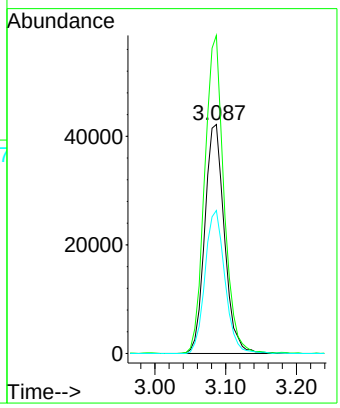




#21
trans-1,2-Dichloroethene
Concen: 48.517 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 96 Resp: 81078

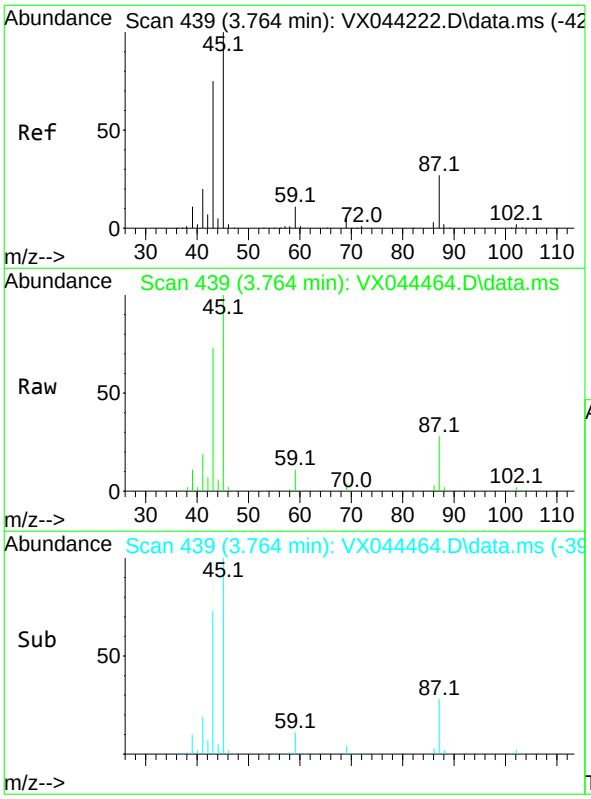
Ion	Ratio	Lower	Upper
96	100		
61	138.9	112.0	168.0
98	62.4	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

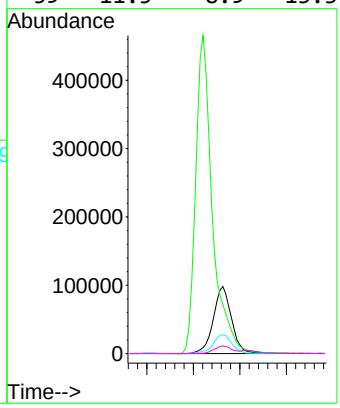
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

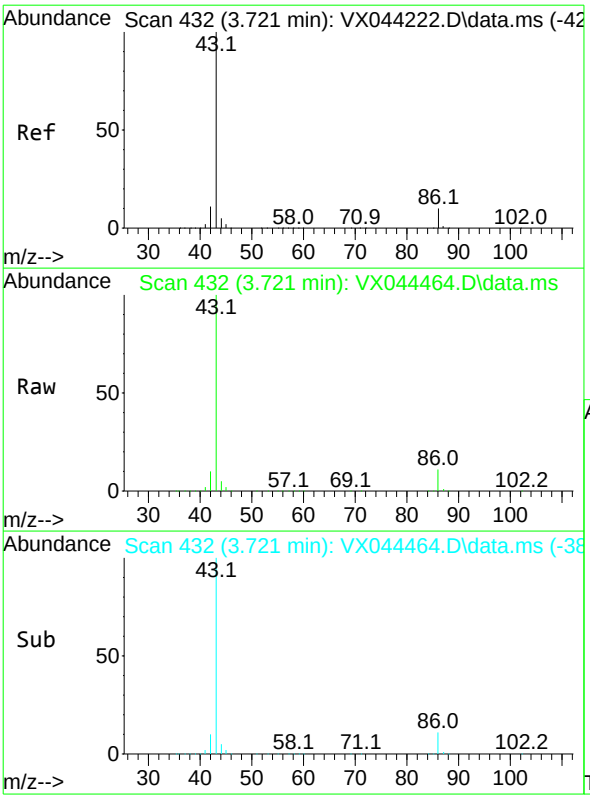


#22
Diisopropyl ether
Concen: 45.018 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 45 Resp: 265503

Ion	Ratio	Lower	Upper
45	100		
43	73.3	60.2	90.2
87	27.7	21.2	31.8
59	11.5	8.9	13.3





#23
Vinyl Acetate
Concen: 243.510 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

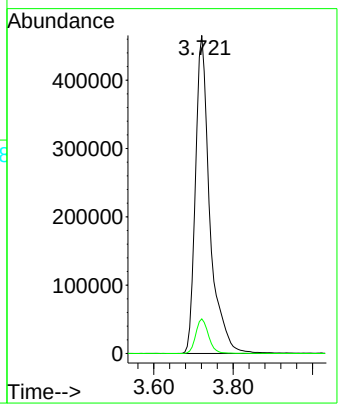
Tgt Ion: 43 Resp: 1167584

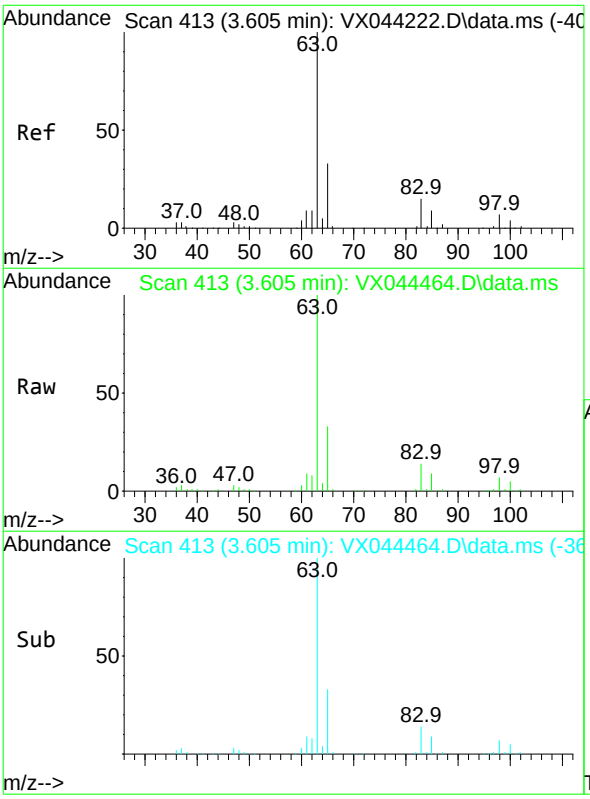
Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.2	12.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

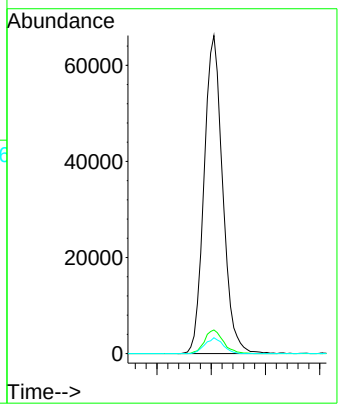


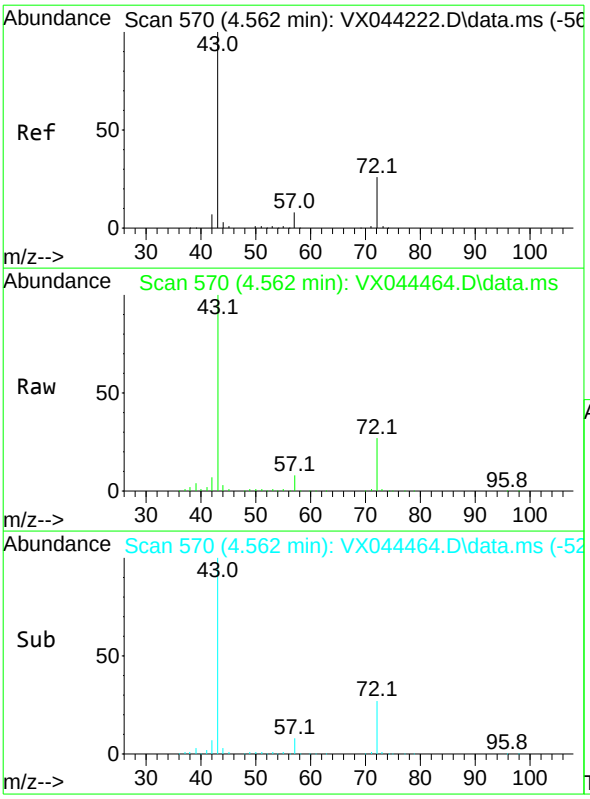


#24
1,1-Dichloroethane
Concen: 48.018 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 63 Resp: 157858

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	5.0	2.1	6.3

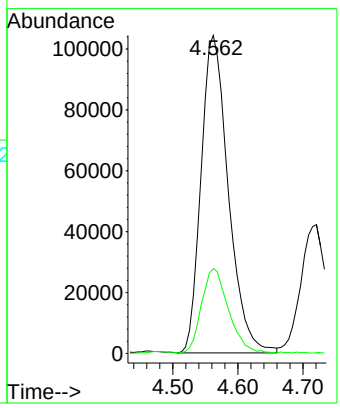




#25
2-Butanone
Concen: 213.237 ug/l
RT: 4.562 min Scan# 57
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 303982

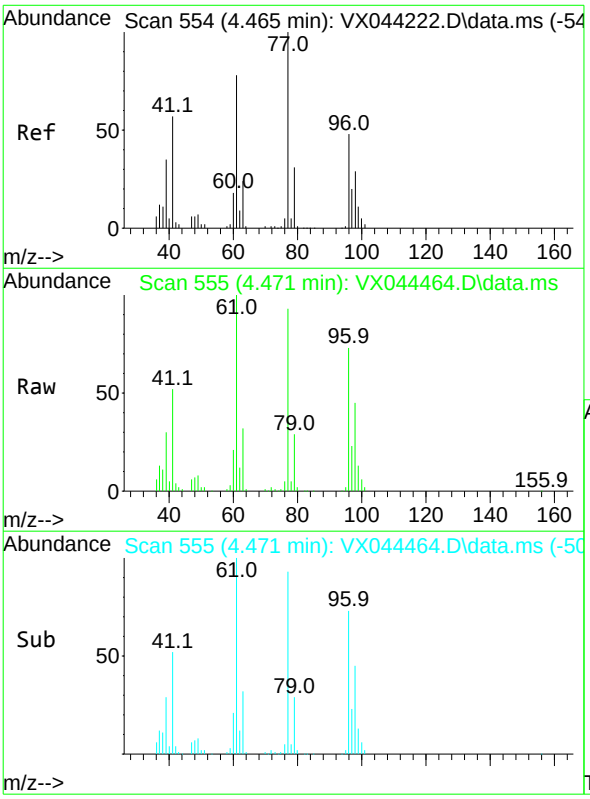
Ion	Ratio	Lower	Upper
43	100		
72	26.5	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

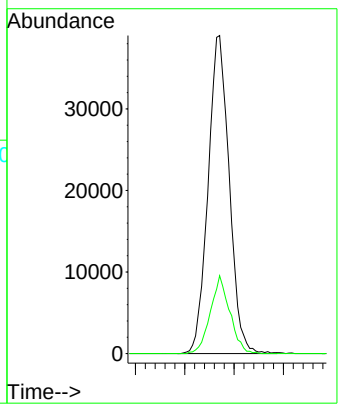
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

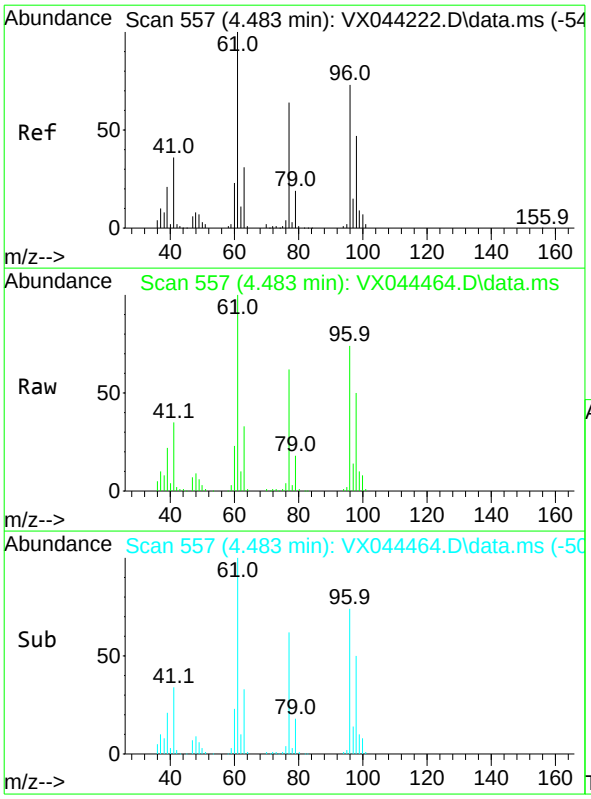


#26
2,2-Dichloropropane
Concen: 43.513 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 77 Resp: 116211

Ion	Ratio	Lower	Upper
77	100		
97	22.5	10.7	32.1

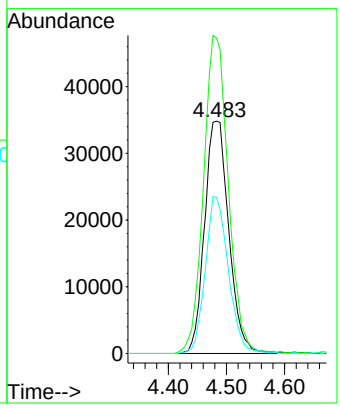




#27
cis-1,2-Dichloroethene
Concen: 47.511 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 96 Resp: 100836

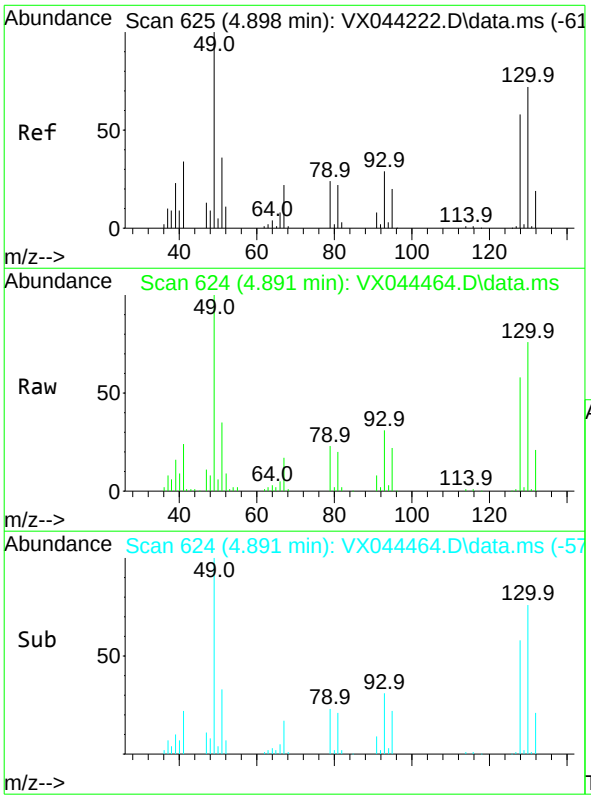
Ion	Ratio	Lower	Upper
96	100		
61	139.9	0.0	299.0
98	64.5	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

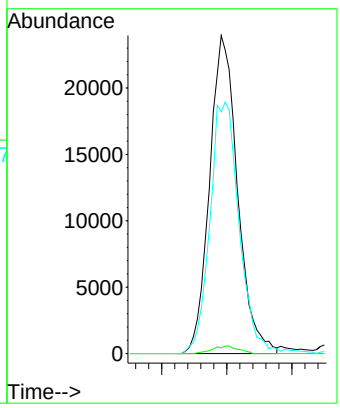
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

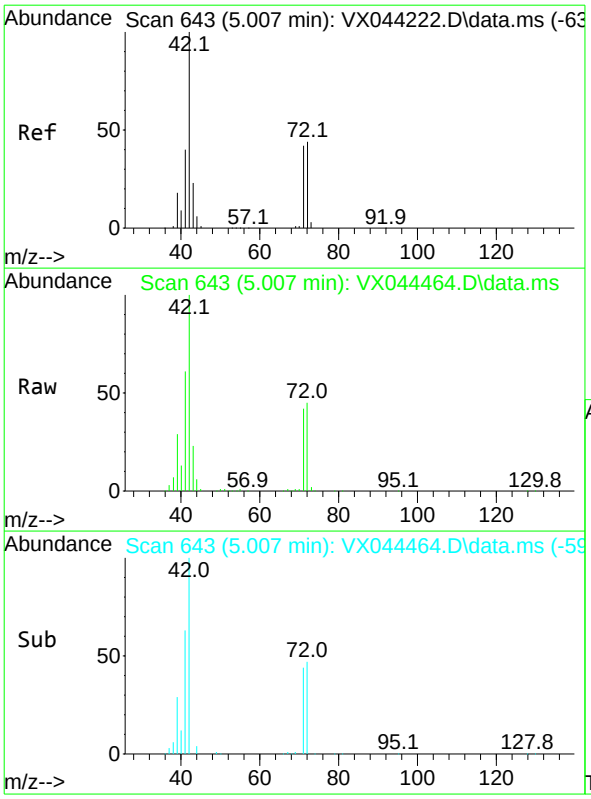


#28
Bromochloromethane
Concen: 44.369 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 49 Resp: 71526

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	82.1	62.1	93.1

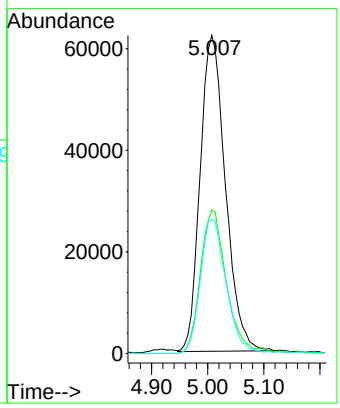




#29
Tetrahydrofuran
Concen: 212.557 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 42 Resp: 194494

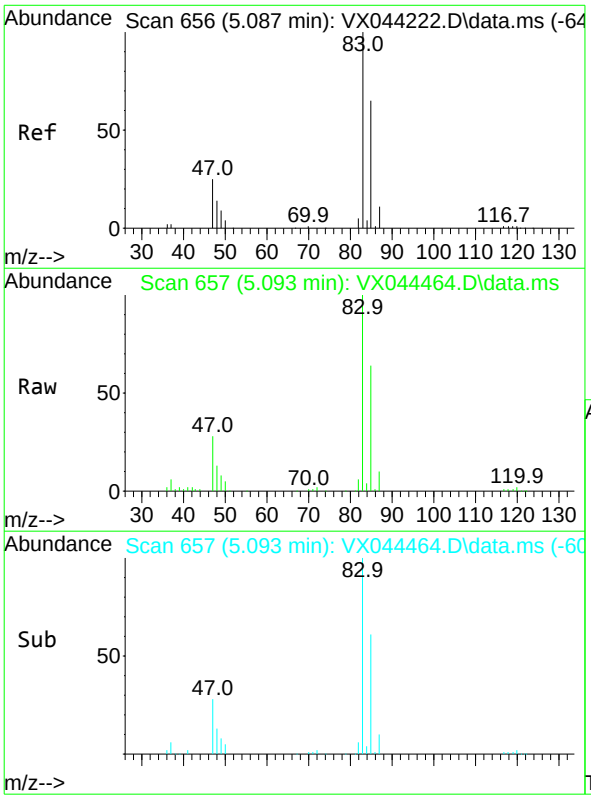
Ion	Ratio	Lower	Upper
42	100		
72	46.1	37.0	55.6
71	43.4	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

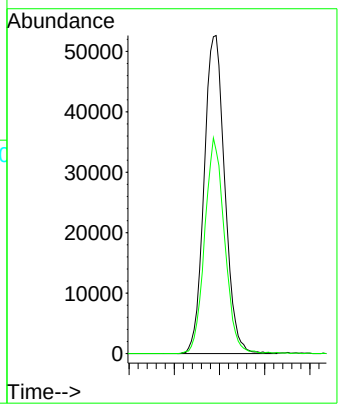
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

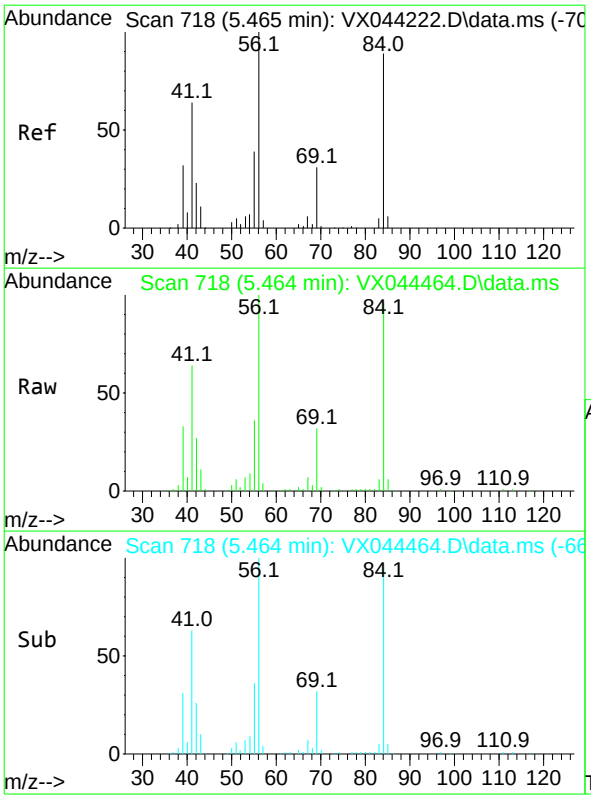


#30
Chloroform
Concen: 45.189 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 83 Resp: 166909

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.6	77.4





#31
Cyclohexane
Concen: 46.033 ug/l
RT: 5.464 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

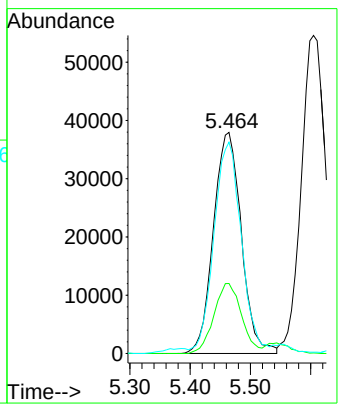
Tgt Ion: 56 Resp: 122203

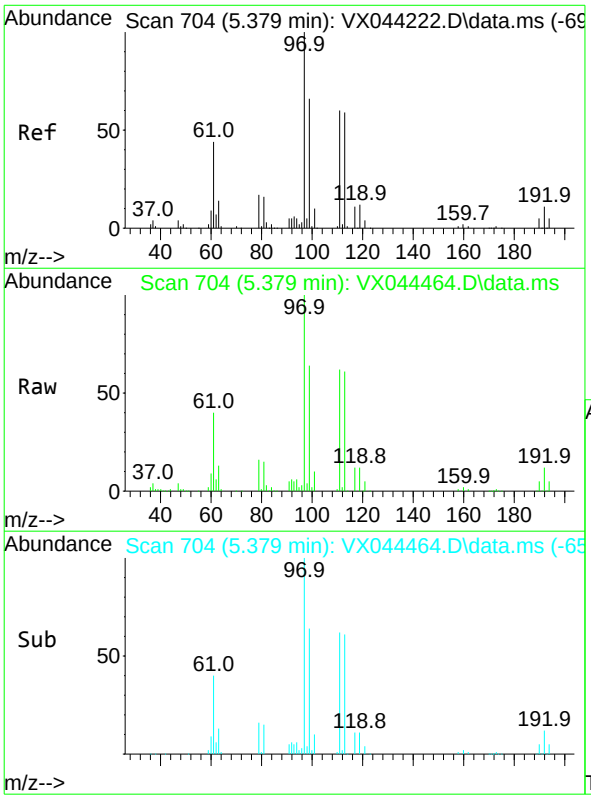
Ion	Ratio	Lower	Upper
56	100		
69	31.7	24.7	37.1
84	93.5	71.0	106.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

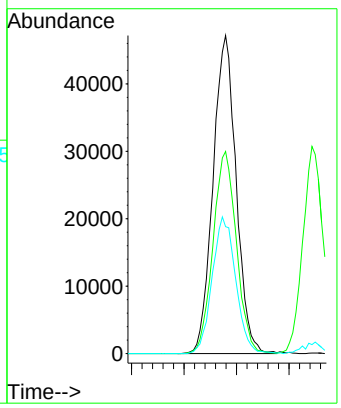


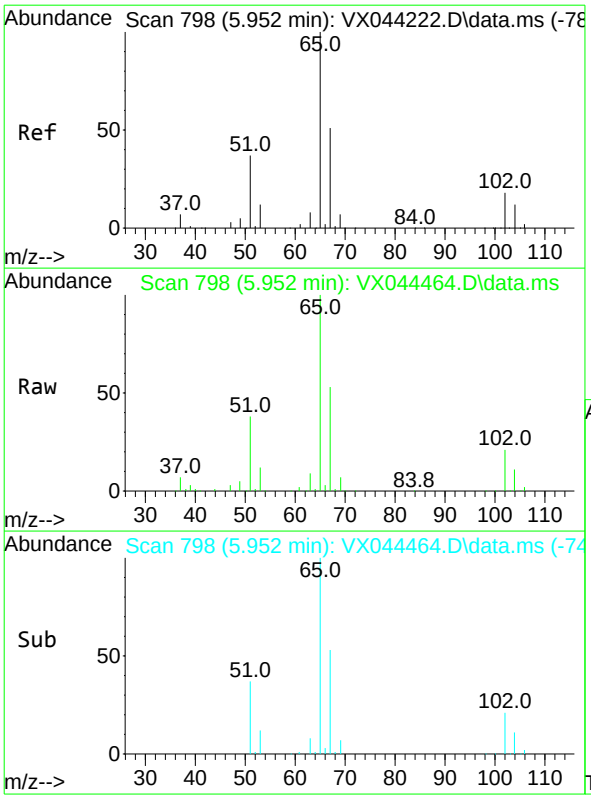


#32
1,1,1-Trichloroethane
Concen: 47.095 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 97 Resp: 144394

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.8	76.2
61	43.7	35.2	52.8

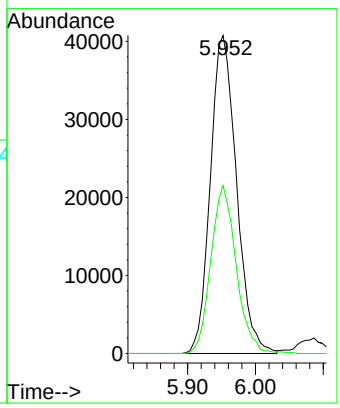




#33
1,2-Dichloroethane-d4
Concen: 44.357 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 65 Resp: 109103

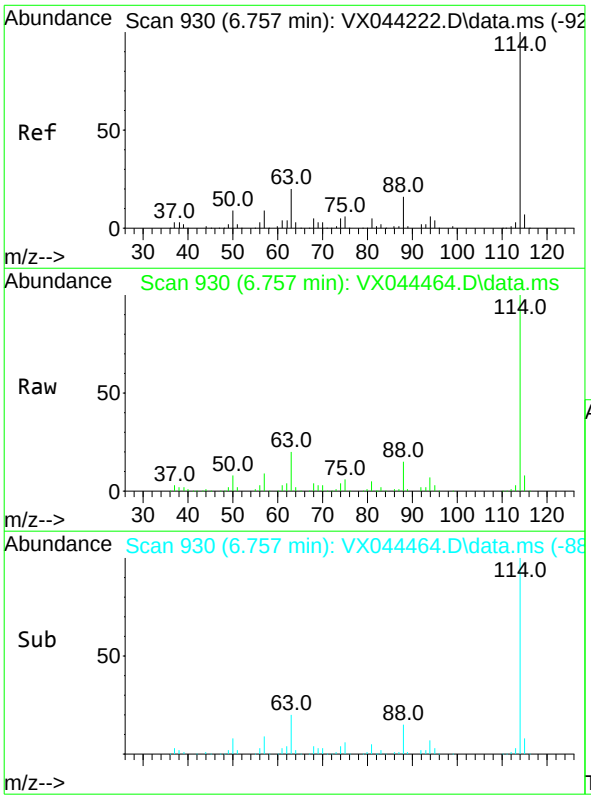
Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

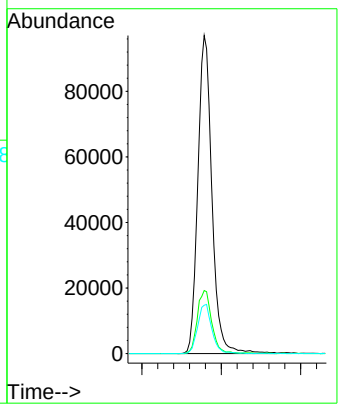
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

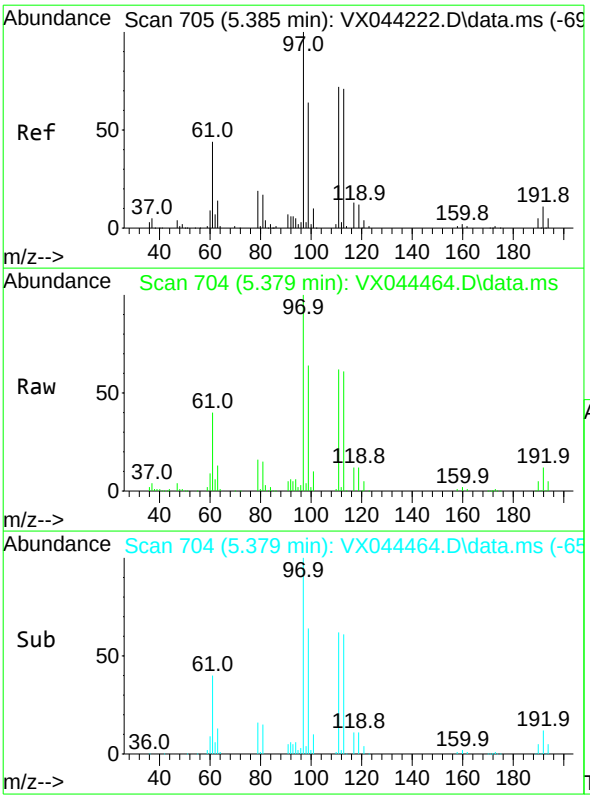


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:114 Resp: 239068

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	40.6
88	15.2	0.0	31.8

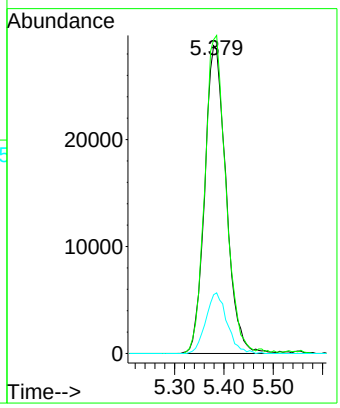




#35
Dibromofluoromethane
Concen: 52.347 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:113 Resp: 86675

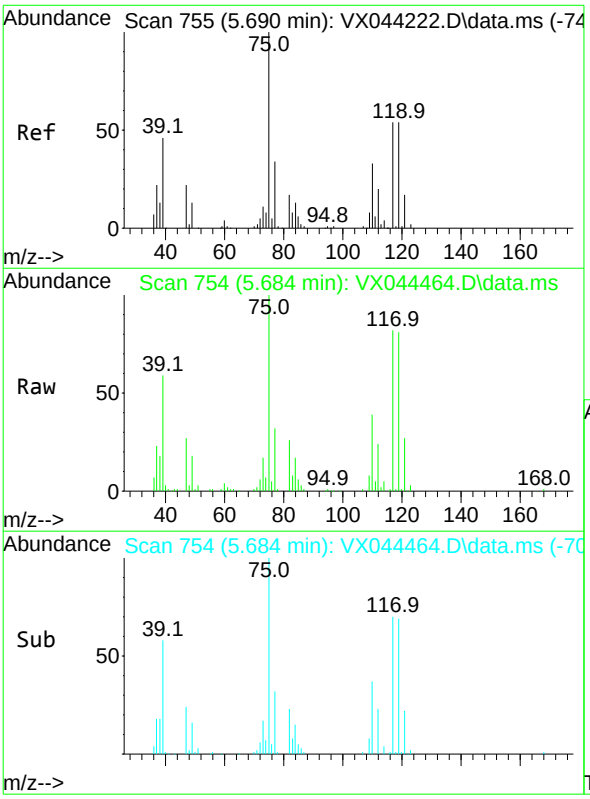
Ion	Ratio	Lower	Upper
113	100		
111	101.4	80.4	120.6
192	19.6	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

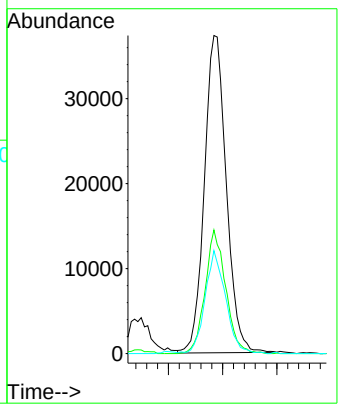
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

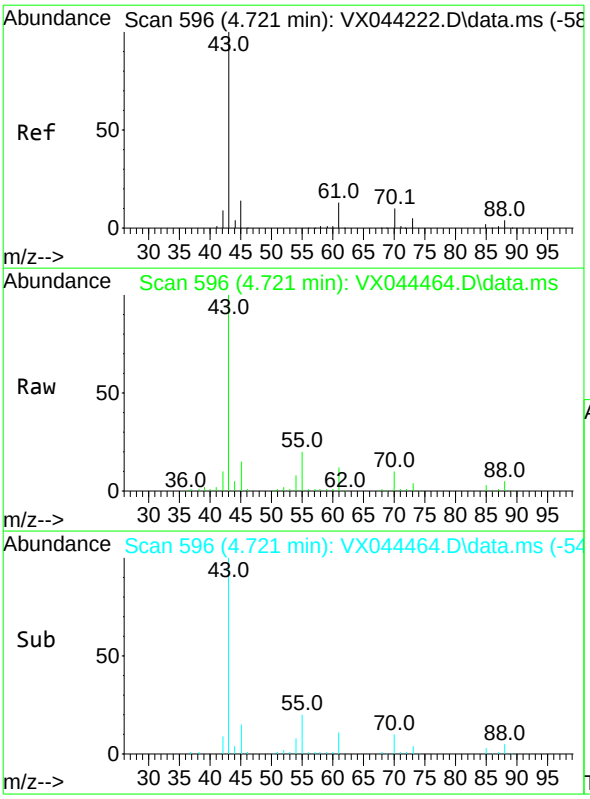


#36
1,1-Dichloropropene
Concen: 49.017 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 104911

Ion	Ratio	Lower	Upper
75	100		
110	36.5	17.3	51.7
77	30.4	25.4	38.0





#37
Ethyl Acetate
Concen: 48.180 ug/l
RT: 4.721 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

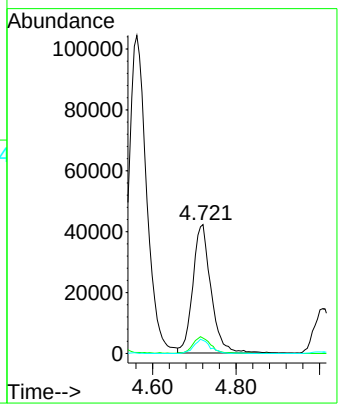
Tgt Ion: 43 Resp: 127468

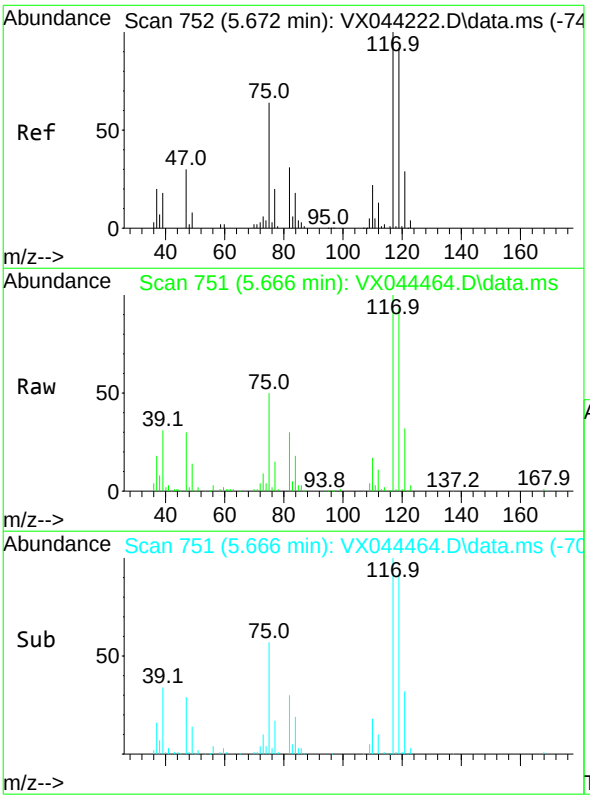
Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.7	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

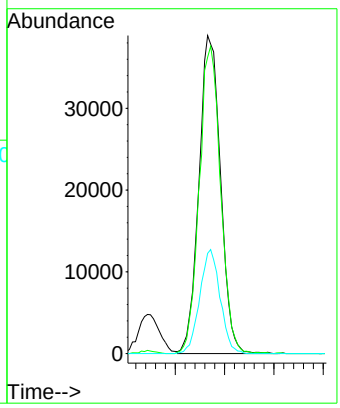


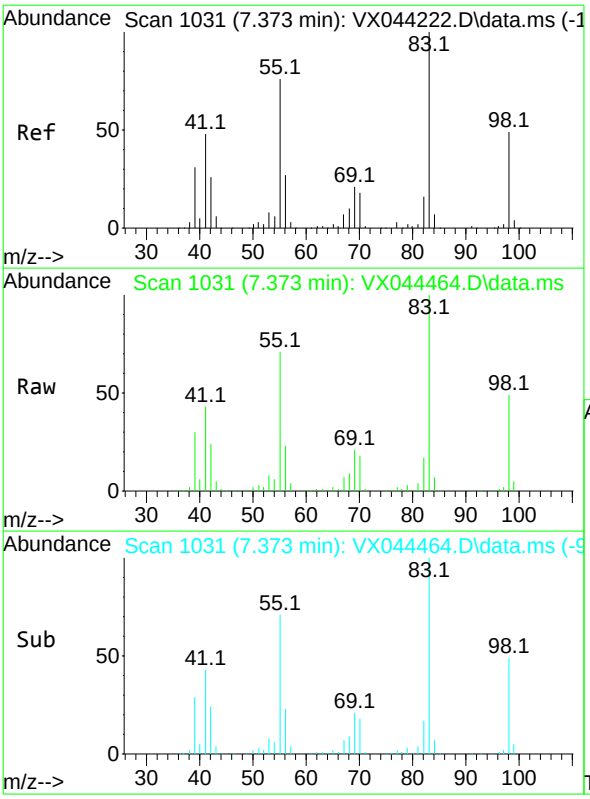


#38
Carbon Tetrachloride
Concen: 51.365 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:117 Resp: 118357

Ion	Ratio	Lower	Upper
117	100		
119	93.0	74.2	111.4
121	31.5	23.0	34.6

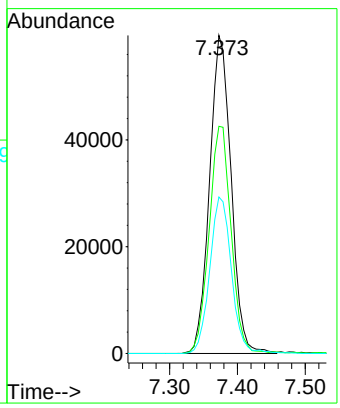




#39
Methylcyclohexane
Concen: 51.370 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 83 Resp: 131438

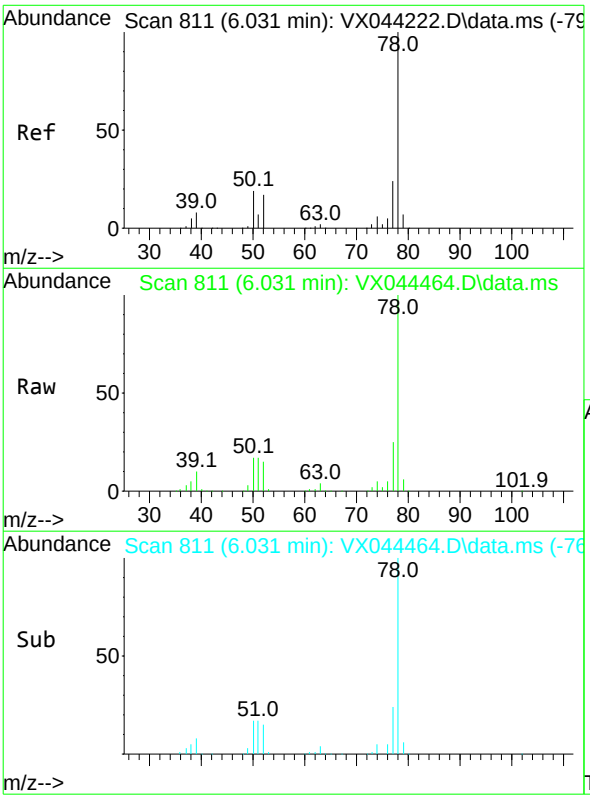
Ion	Ratio	Lower	Upper
83	100		
55	71.4	60.7	91.1
98	49.2	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

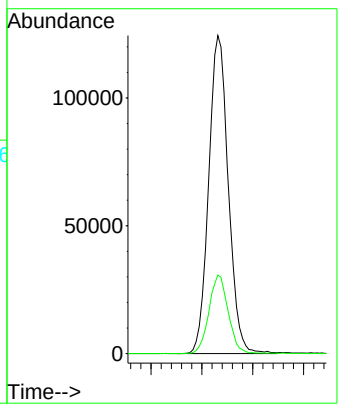
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

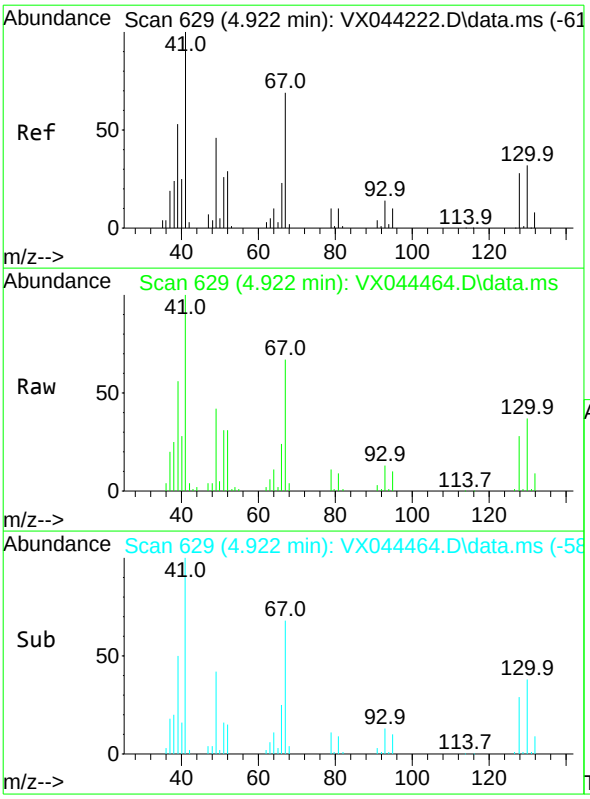


#40
Benzene
Concen: 51.262 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 78 Resp: 333117

Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.3	28.9





#41
Methacrylonitrile
Concen: 47.401 ug/l
RT: 4.922 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

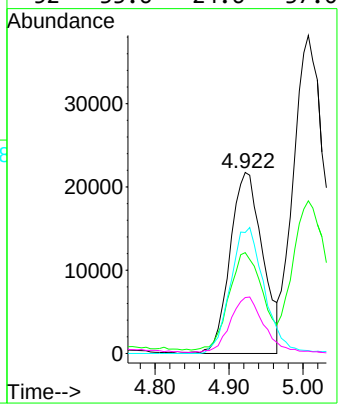
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

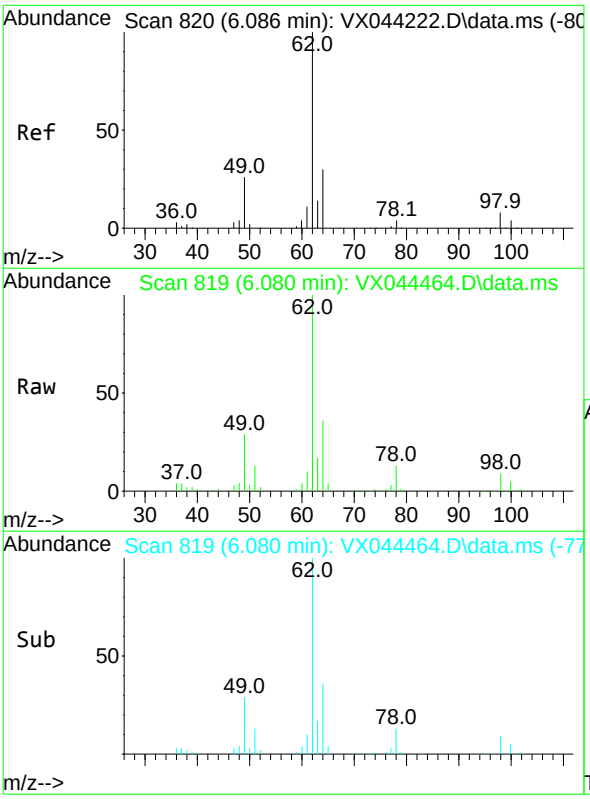
Tgt Ion: 41 Resp: 66592

Ion	Ratio	Lower	Upper
41	100		
39	55.8	44.2	66.4
67	72.7	57.2	85.8
52	33.6	24.6	37.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

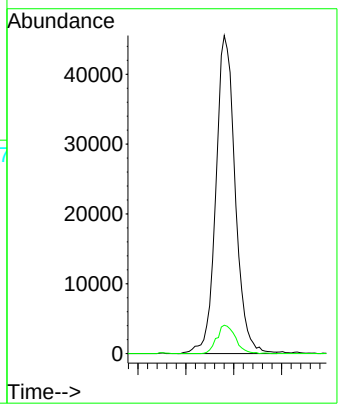


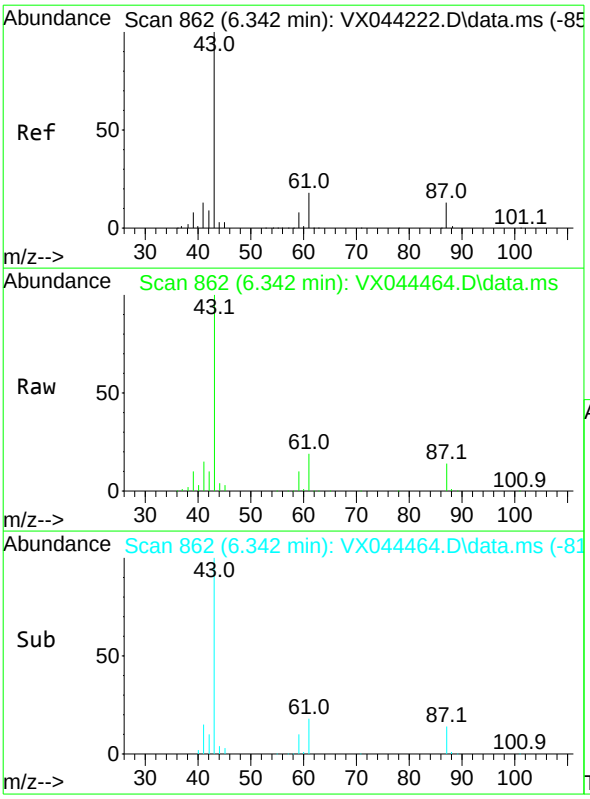


#42
1,2-Dichloroethane
Concen: 47.680 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 62 Resp: 127634

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	15.8

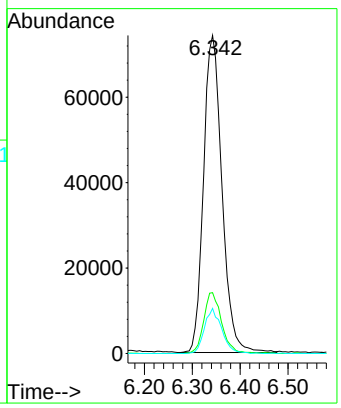




#43
Isopropyl Acetate
Concen: 48.047 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 198680

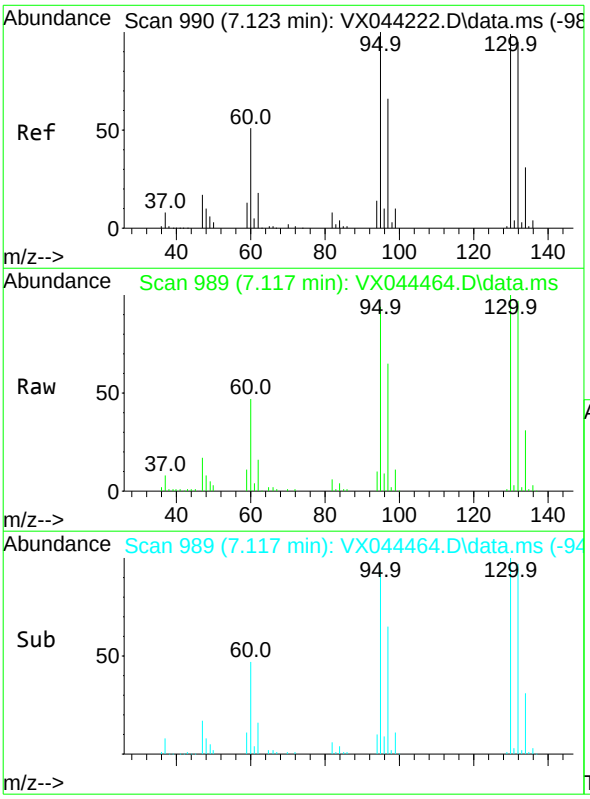
Ion	Ratio	Lower	Upper
43	100		
61	18.6	14.2	21.2
87	13.3	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

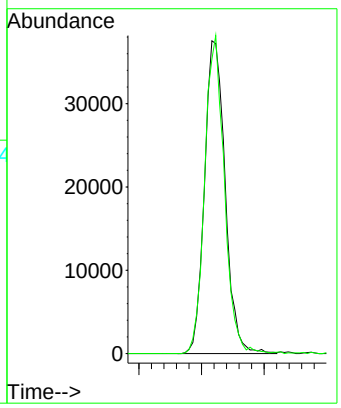
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

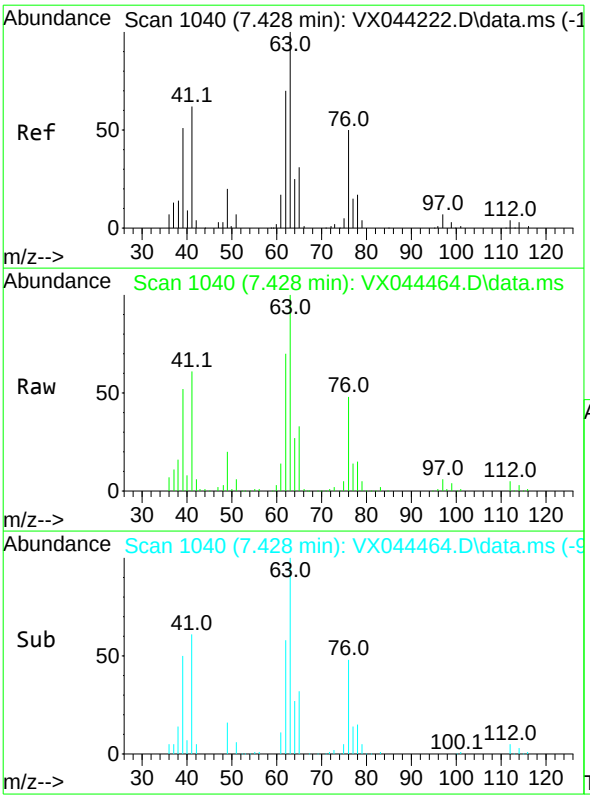


#44
Trichloroethene
Concen: 53.083 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:130 Resp: 86021

Ion	Ratio	Lower	Upper
130	100		
95	94.1	0.0	201.4





#45
1,2-Dichloropropane
Concen: 49.622 ug/l
RT: 7.428 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

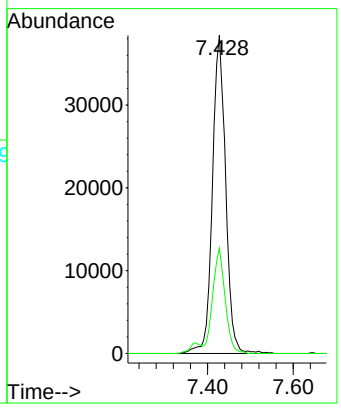
Tgt Ion: 63 Resp: 82383

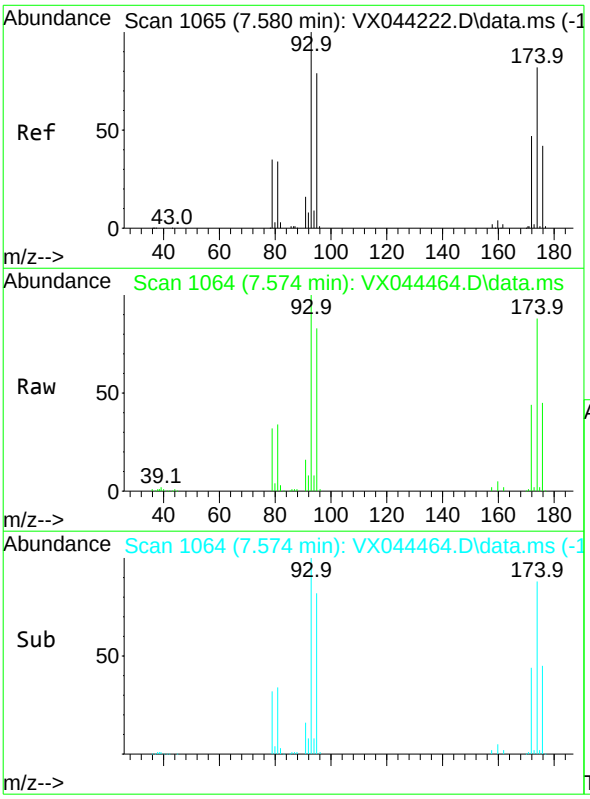
Ion	Ratio	Lower	Upper
63	100		
65	33.1	24.6	37.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

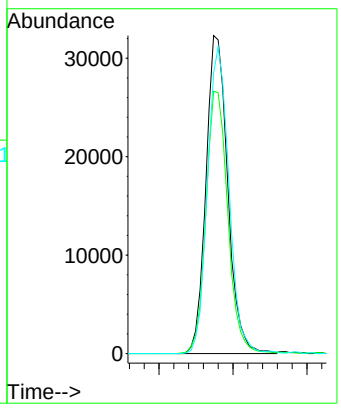


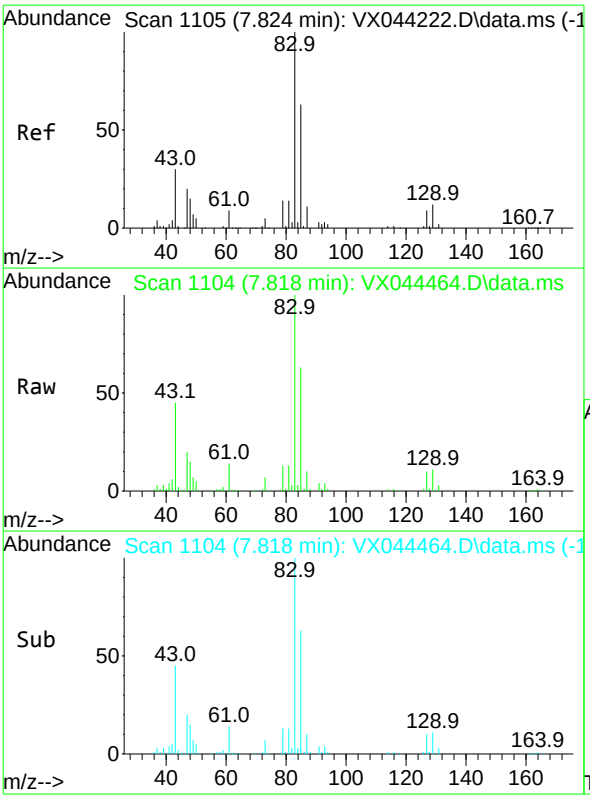


#46
Dibromomethane
Concen: 51.184 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 93 Resp: 65924

Ion	Ratio	Lower	Upper
93	100		
95	82.6	65.4	98.2
174	95.5	67.9	101.9

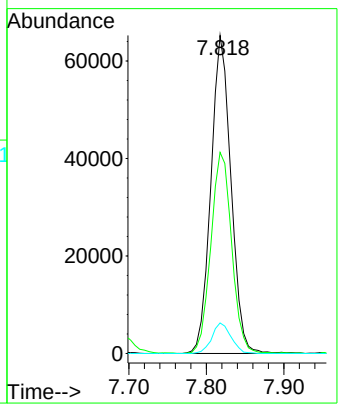




#47
Bromodichloromethane
Concen: 52.723 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 83 Resp: 117278

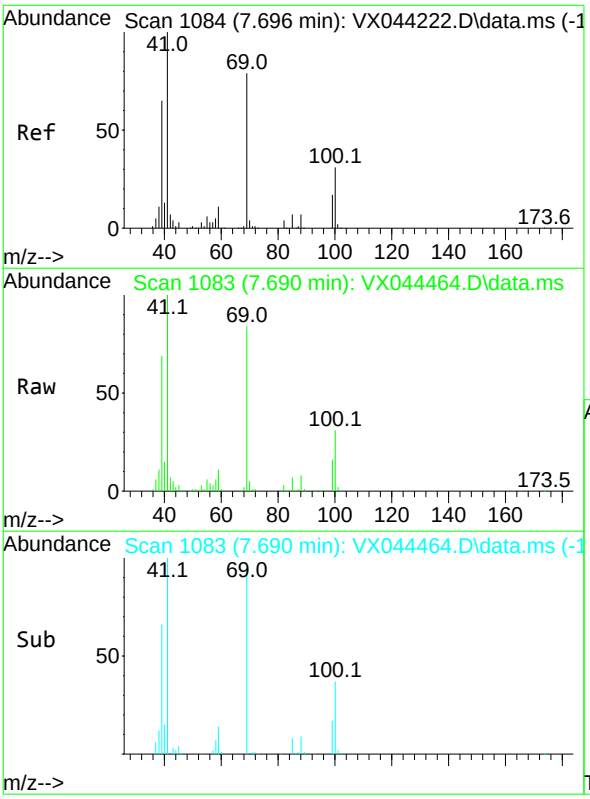
Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	9.6	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

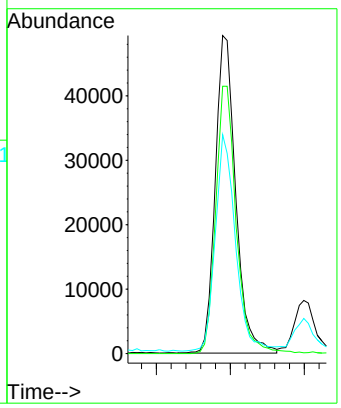
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

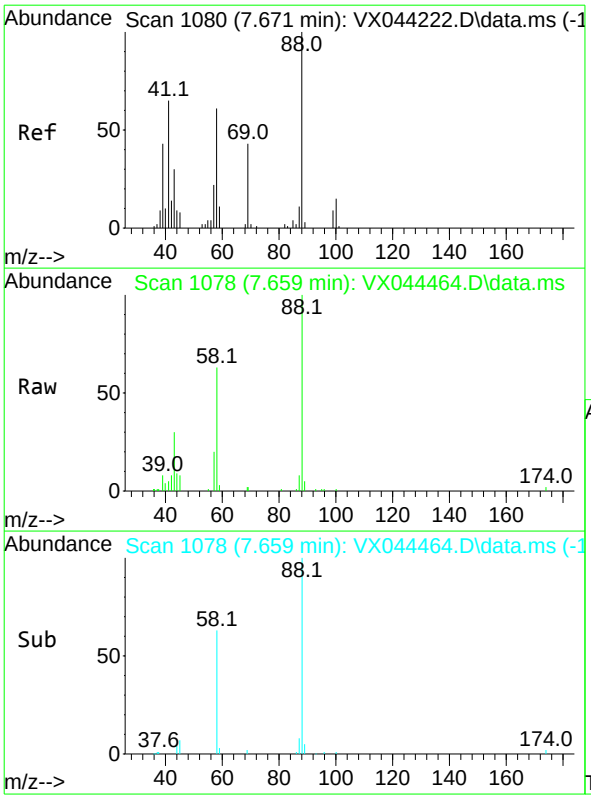


#48
Methyl methacrylate
Concen: 47.115 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 41 Resp: 94575

Ion	Ratio	Lower	Upper
41	100		
69	84.6	62.4	93.6
39	66.9	53.3	79.9





#49
1,4-Dioxane
Concen: 1003.530 ug/l
RT: 7.659 min Scan# 10
Delta R.T. -0.012 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

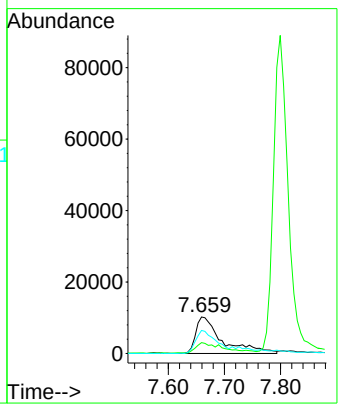
Tgt Ion: 88 Resp: 33398

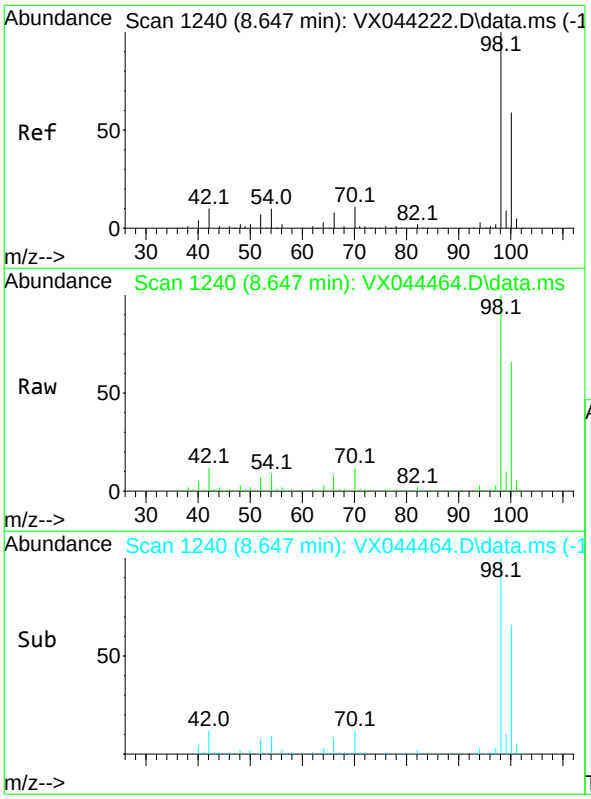
Ion	Ratio	Lower	Upper
88	100		
43	27.8	27.1	40.7
58	48.6	41.0	61.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

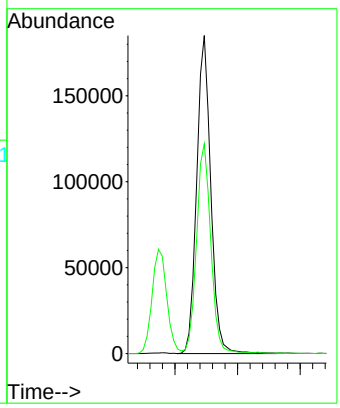


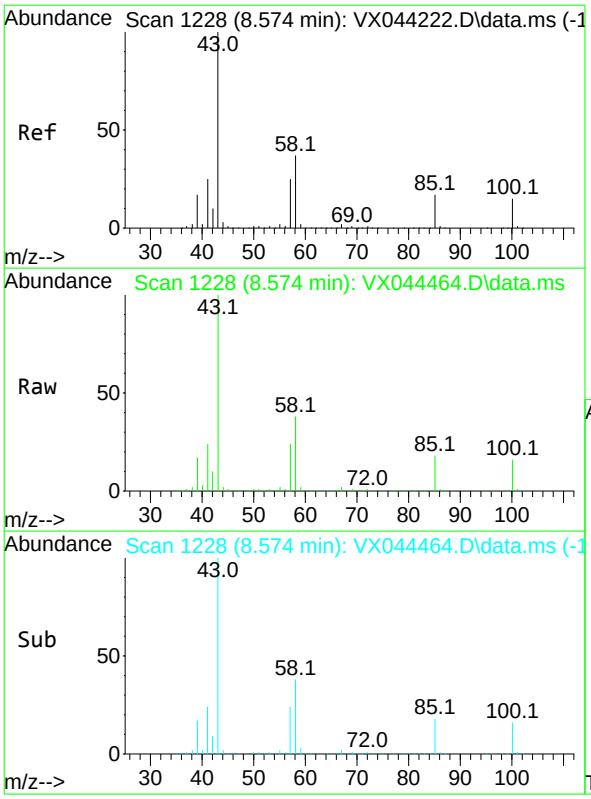


#50
Toluene-d8
Concen: 51.923 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 98 Resp: 290046

Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.5	77.3

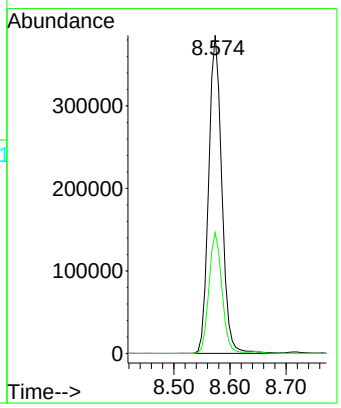




#51
4-Methyl-2-Pentanone
Concen: 235.413 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 625919

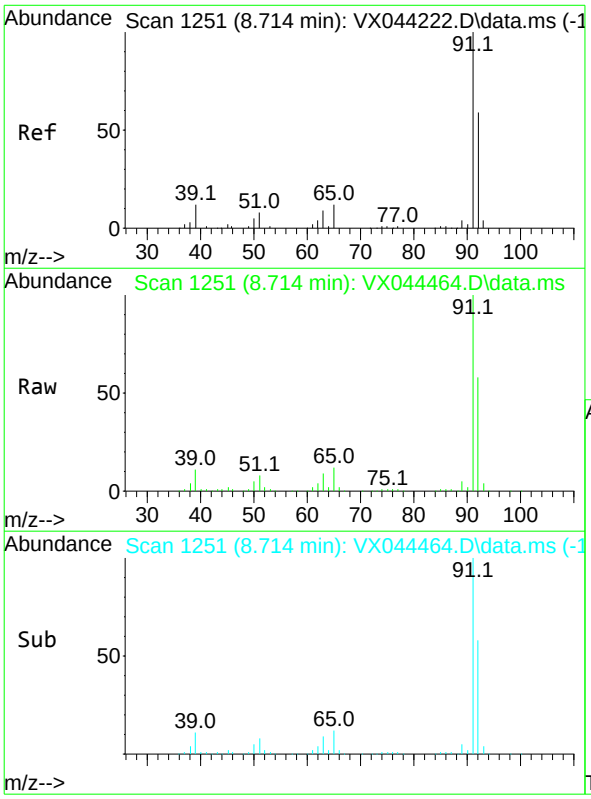
Ion	Ratio	Lower	Upper
43	100		
58	37.5	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

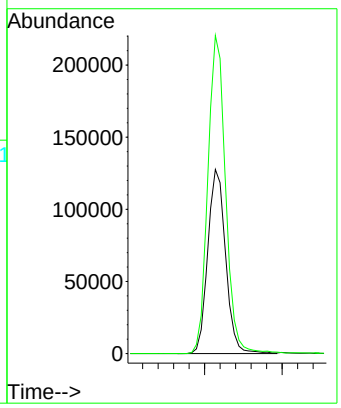
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

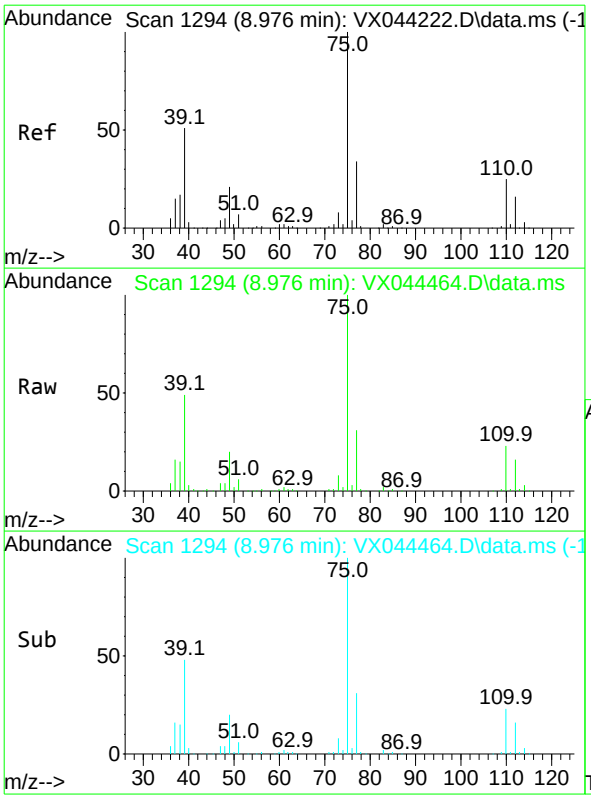


#52
Toluene
Concen: 50.071 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 92 Resp: 204328

Ion	Ratio	Lower	Upper
92	100		
91	171.3	137.0	205.6

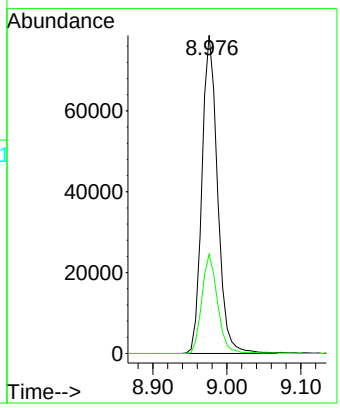




#53
t-1,3-Dichloropropene
Concen: 48.388 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 115268

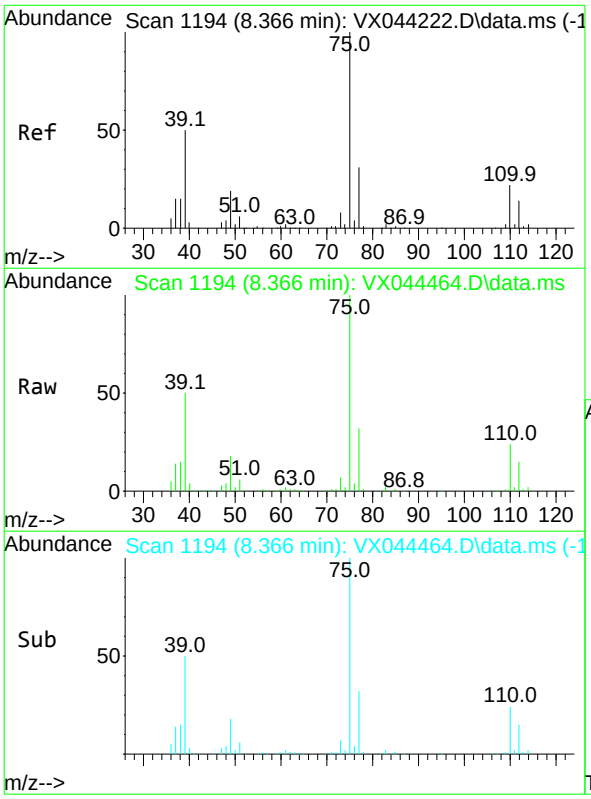
Ion	Ratio	Lower	Upper
75	100		
77	31.2	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

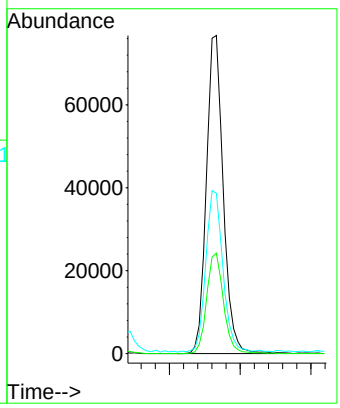
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

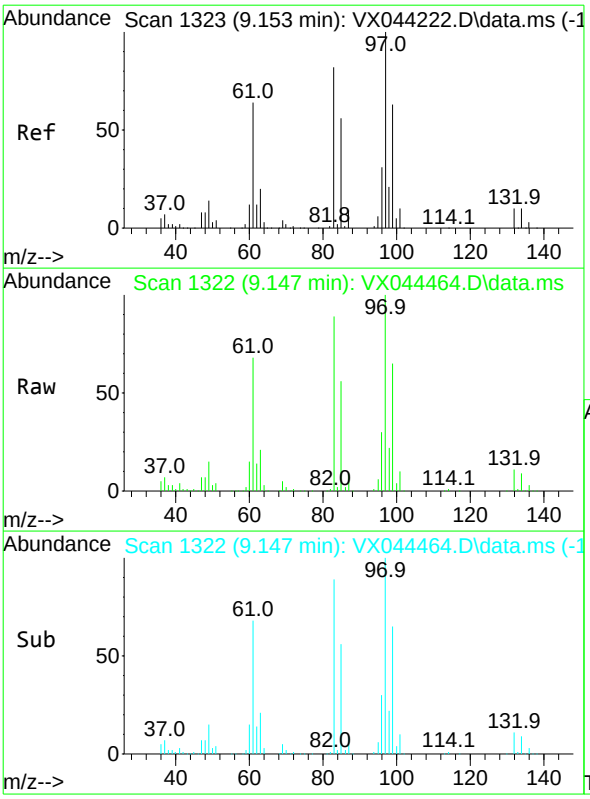


#54
cis-1,3-Dichloropropene
Concen: 52.437 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 127004

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.7	37.1
39	50.0	40.3	60.5

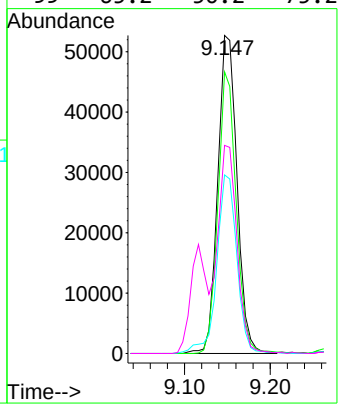




#55
1,1,2-Trichloroethane
Concen: 50.814 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 97 Resp: 82378

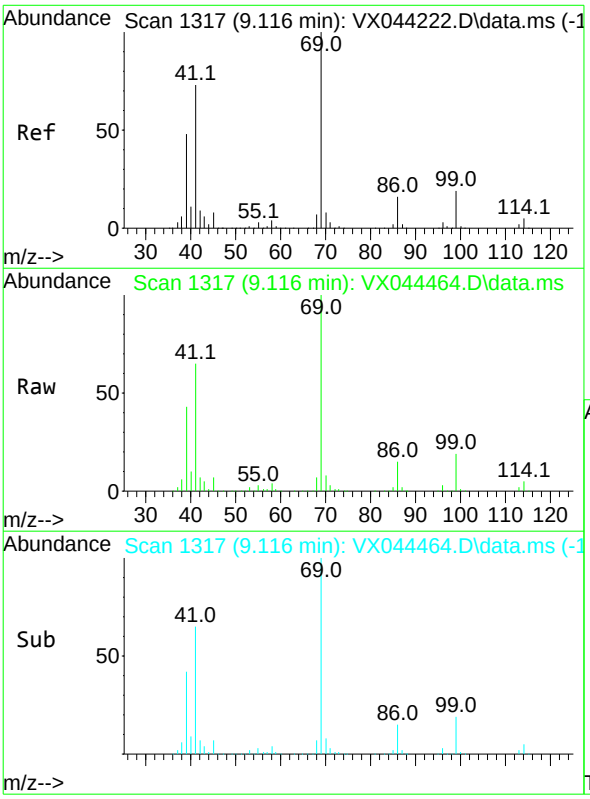
Ion	Ratio	Lower	Upper
97	100		
83	88.5	65.3	97.9
85	56.0	44.6	67.0
99	65.2	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

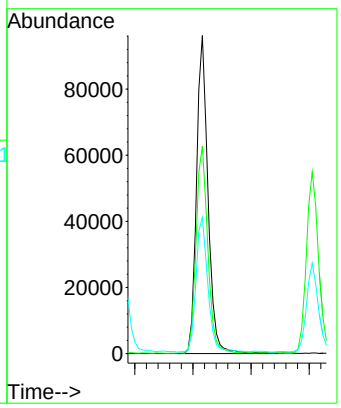
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

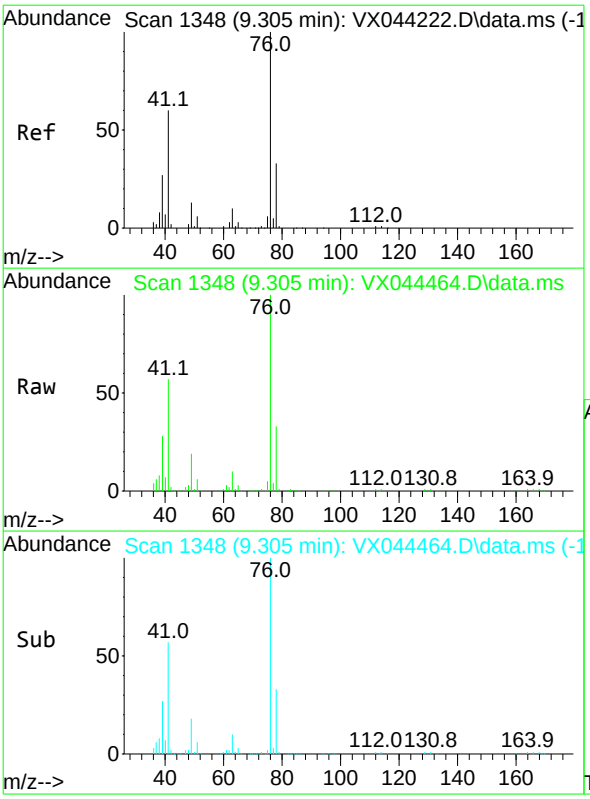


#56
Ethyl methacrylate
Concen: 51.516 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 69 Resp: 131845

Ion	Ratio	Lower	Upper
69	100		
41	66.5	56.6	85.0
39	43.7	37.4	56.0

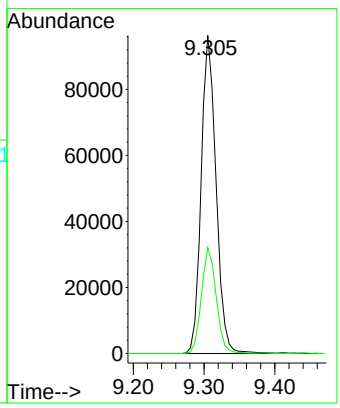




#57
1,3-Dichloropropane
Concen: 49.799 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 76 Resp: 140522

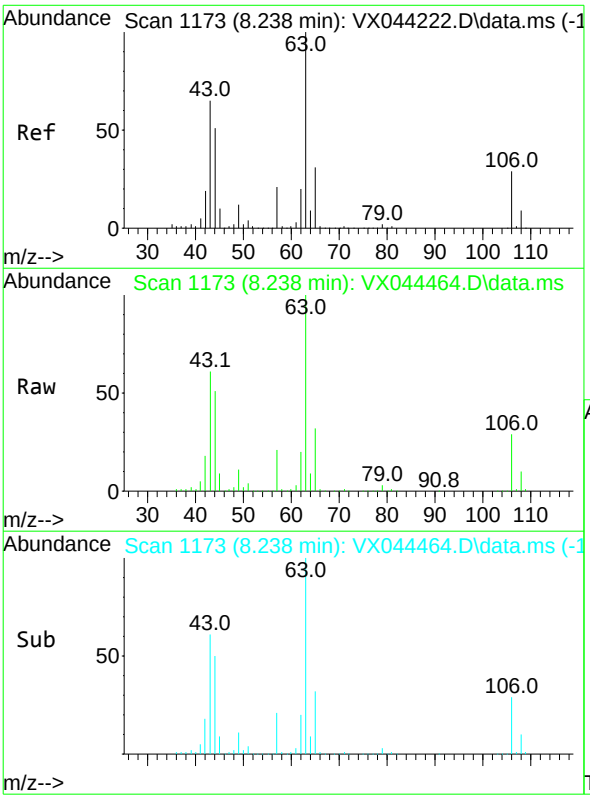
Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

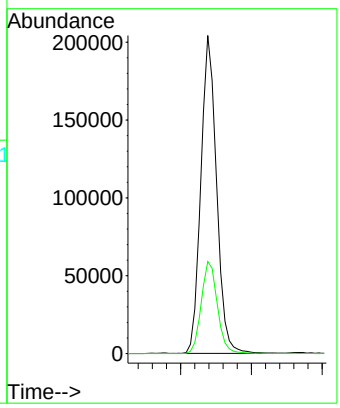
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

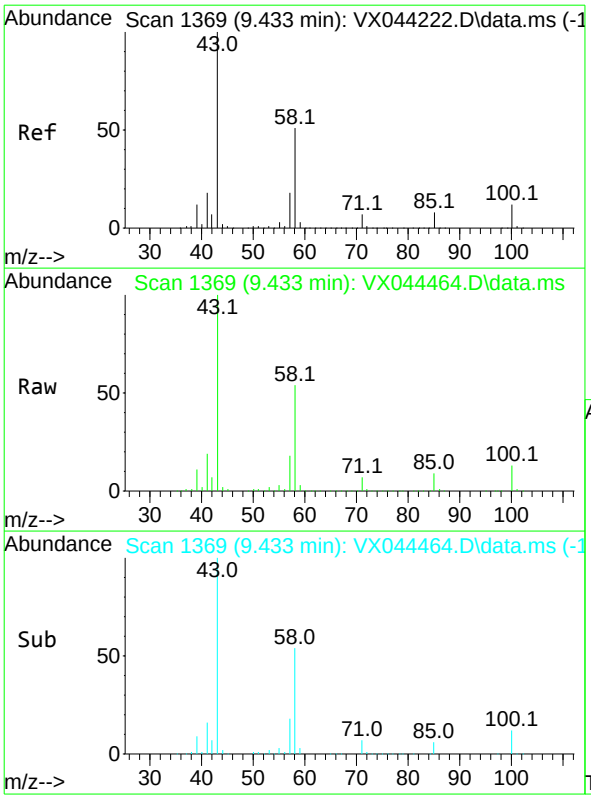


#58
2-Chloroethyl Vinyl ether
Concen: 243.652 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 63 Resp: 314516

Ion	Ratio	Lower	Upper
63	100		
106	29.8	22.8	34.2





#59
2-Hexanone
Concen: 236.376 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

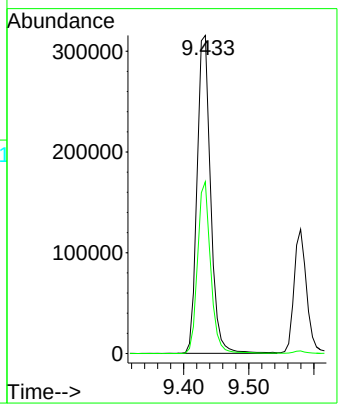
Tgt Ion: 43 Resp: 454909

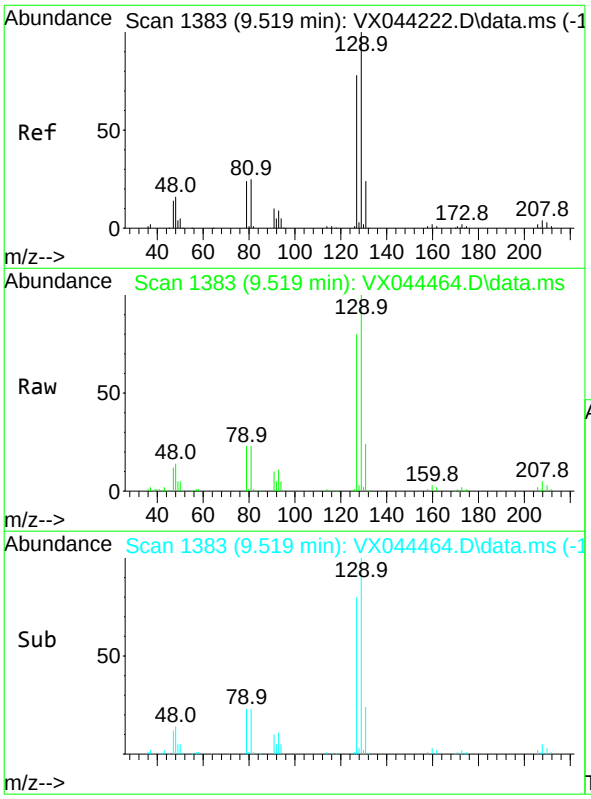
Ion	Ratio	Lower	Upper
43	100		
58	52.3	25.7	77.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

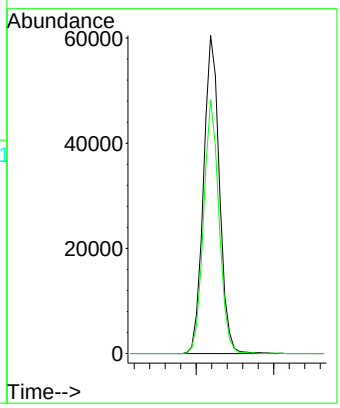


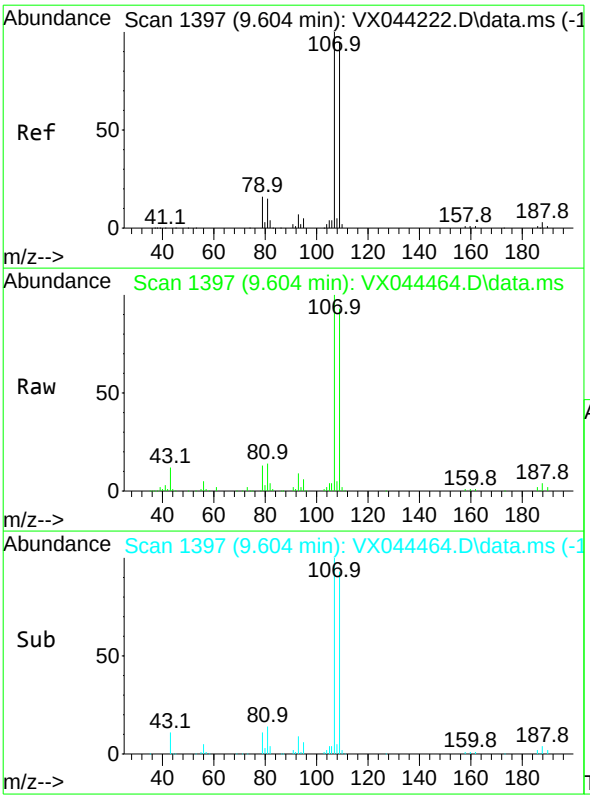


#60
Dibromochloromethane
Concen: 50.206 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:129 Resp: 86219

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.5	115.3





#61
1,2-Dibromoethane
Concen: 53.053 ug/l
RT: 9.604 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

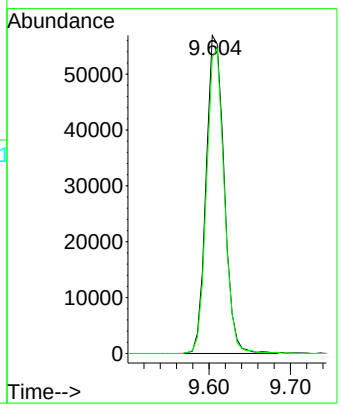
Tgt Ion:107 Resp: 87547

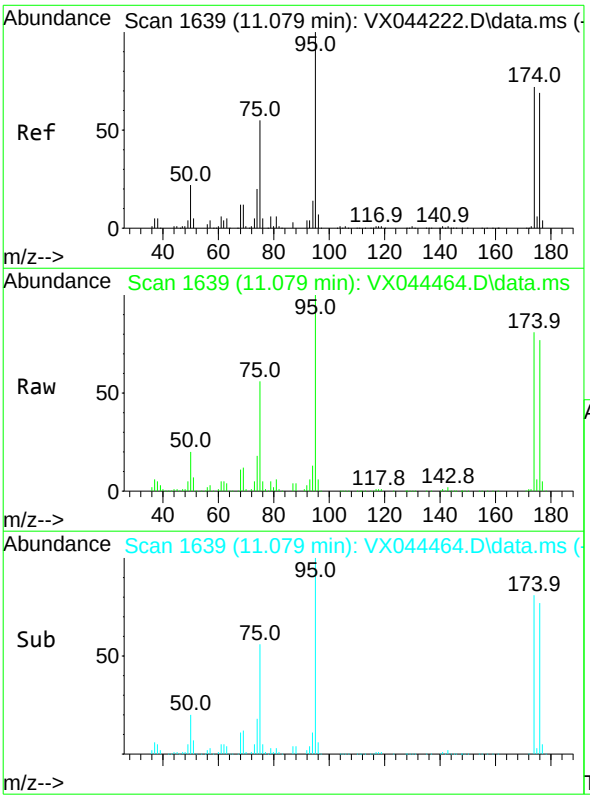
Ion	Ratio	Lower	Upper
107	100		
109	94.1	77.0	115.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

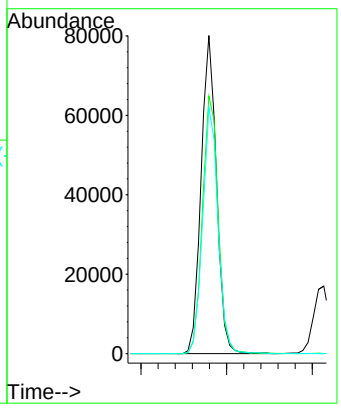


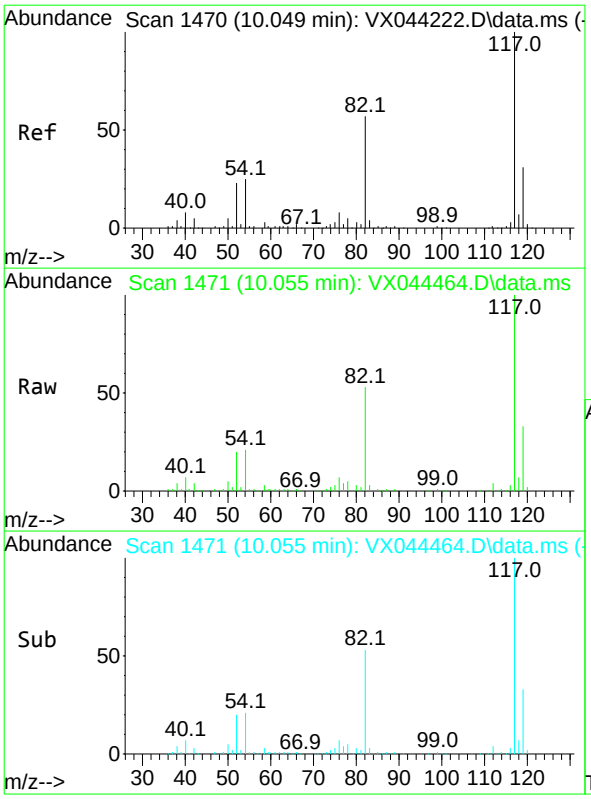


#62
4-Bromofluorobenzene
Concen: 51.161 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 95 Resp: 99862

Ion	Ratio	Lower	Upper
95	100		
174	83.0	0.0	145.8
176	77.6	0.0	137.8

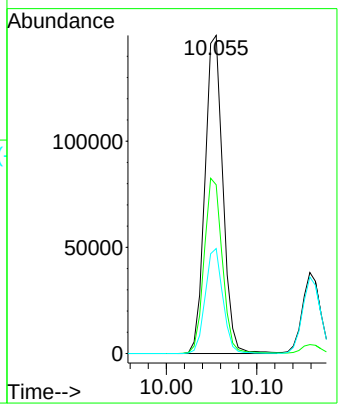




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:117 Resp: 206477

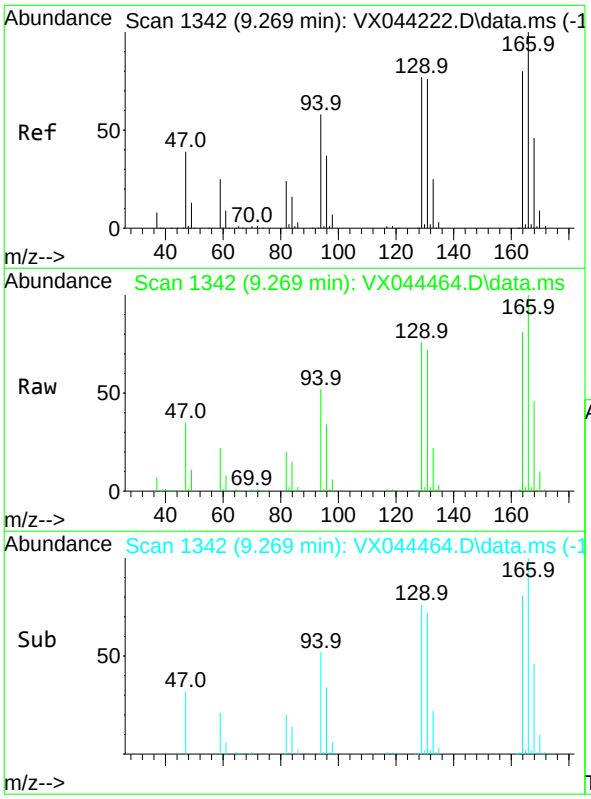
Ion	Ratio	Lower	Upper
117	100		
82	53.0	45.8	68.8
119	33.0	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

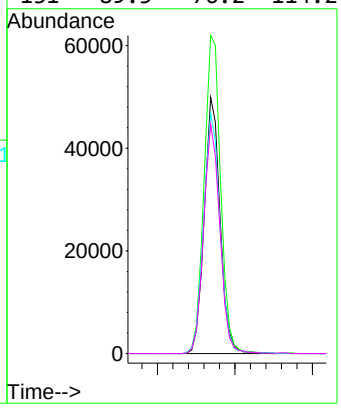
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

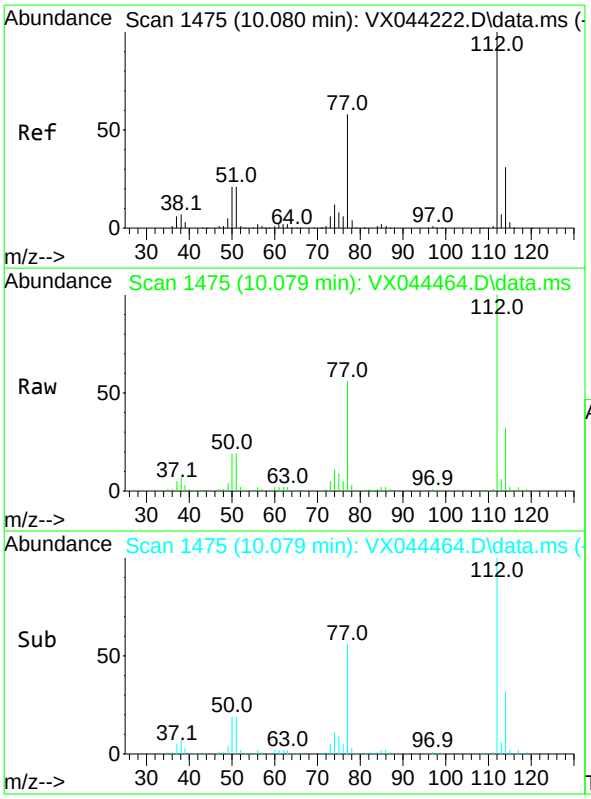


#64
Tetrachloroethene
Concen: 51.727 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:164 Resp: 70888

Ion	Ratio	Lower	Upper
164	100		
166	124.1	100.4	150.6
129	93.8	77.2	115.8
131	89.5	76.2	114.2

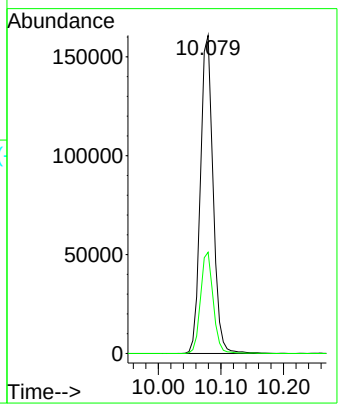




#65
Chlorobenzene
Concen: 51.056 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:112 Resp: 225888

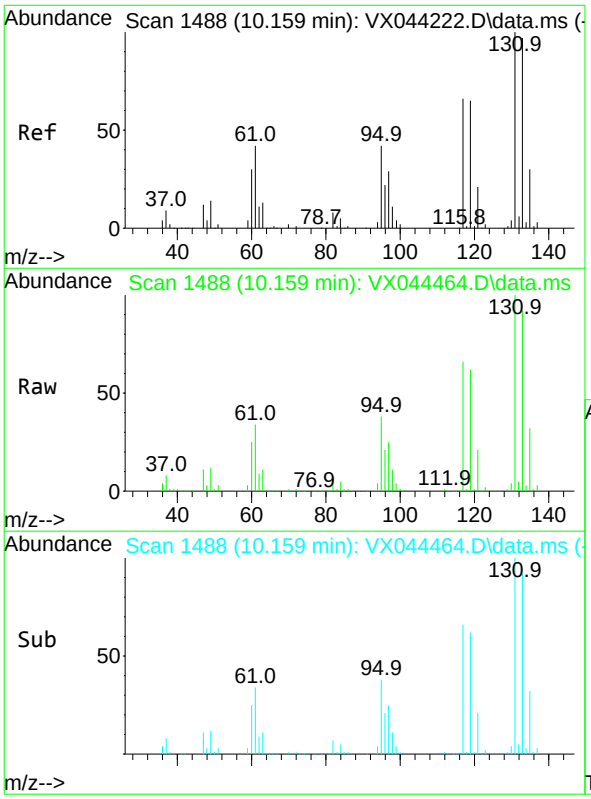
Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

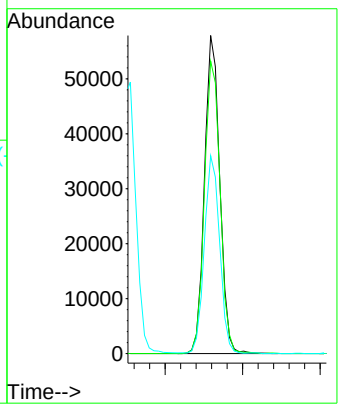
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

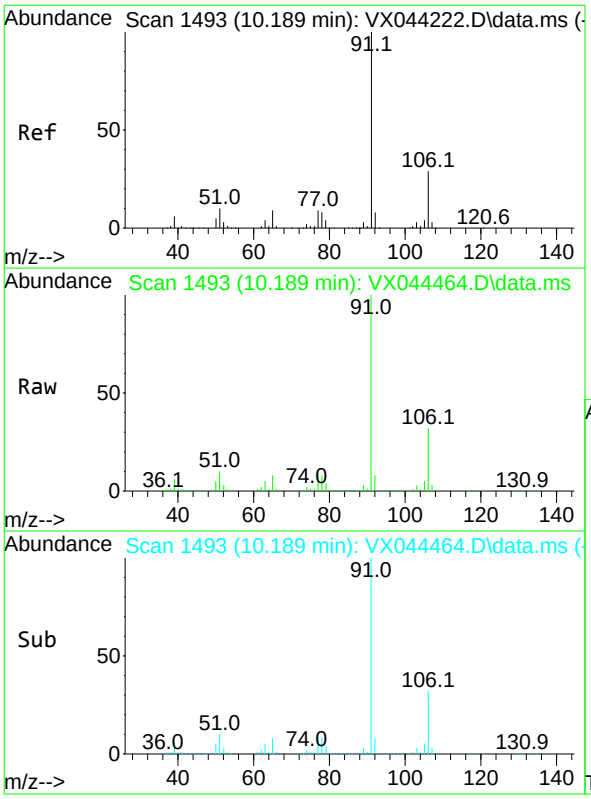


#66
1,1,1,2-Tetrachloroethane
Concen: 55.601 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:131 Resp: 79060

Ion	Ratio	Lower	Upper
131	100		
133	94.3	47.3	141.8
119	62.0	31.6	95.0

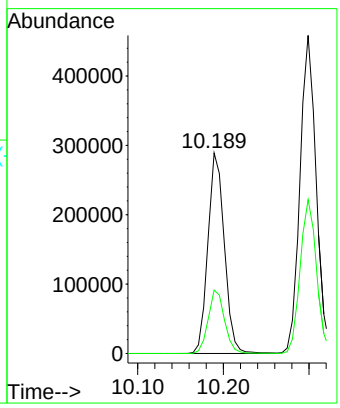




#67
Ethyl Benzene
Concen: 50.462 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 91 Resp: 385756

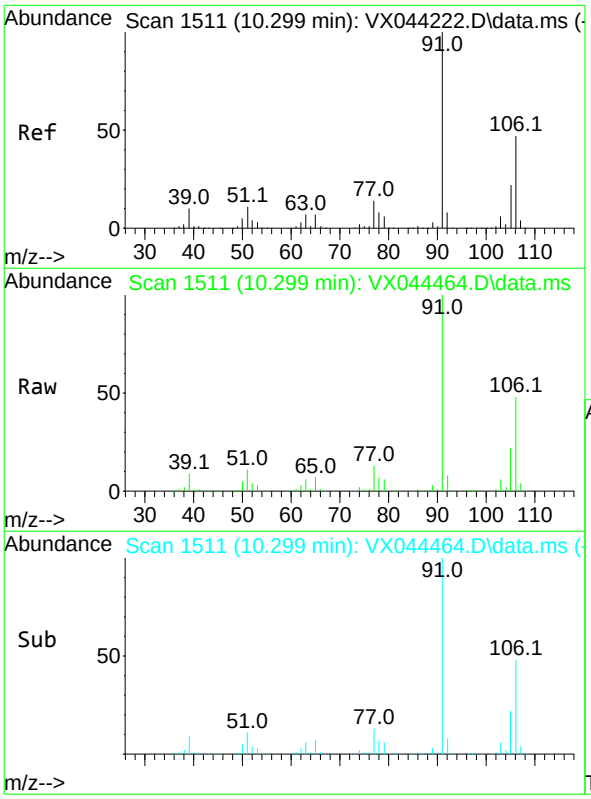
Ion	Ratio	Lower	Upper
91	100		
106	31.6	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

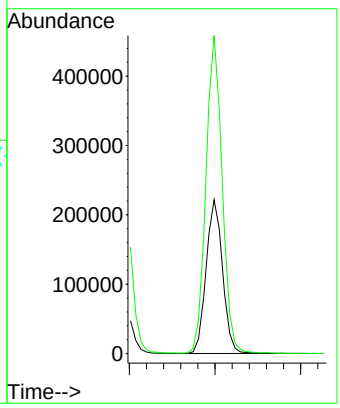
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

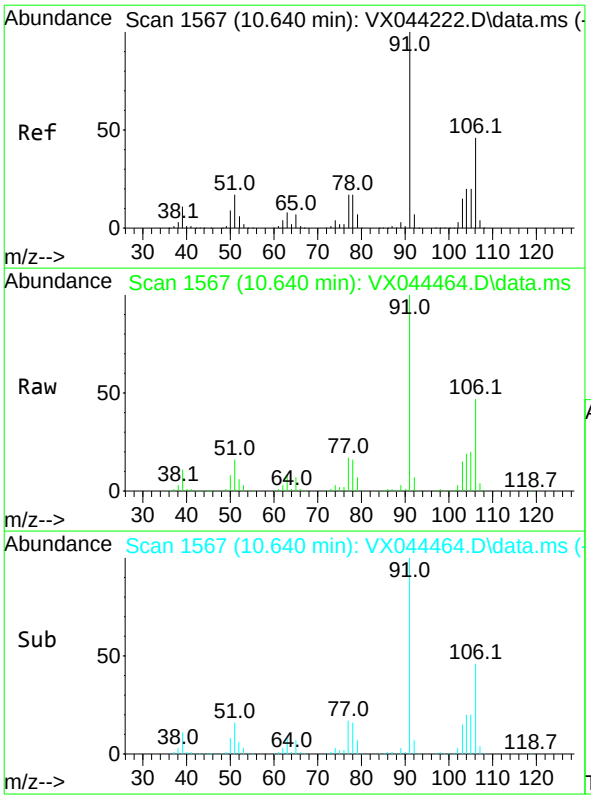


#68
m/p-Xylenes
Concen: 105.028 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:106 Resp: 294612

Ion	Ratio	Lower	Upper
106	100		
91	205.2	170.2	255.2

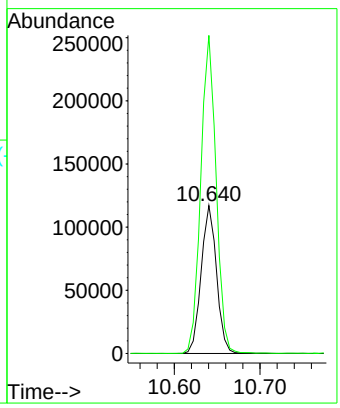




#69
o-Xylene
Concen: 51.494 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:106 Resp: 146149

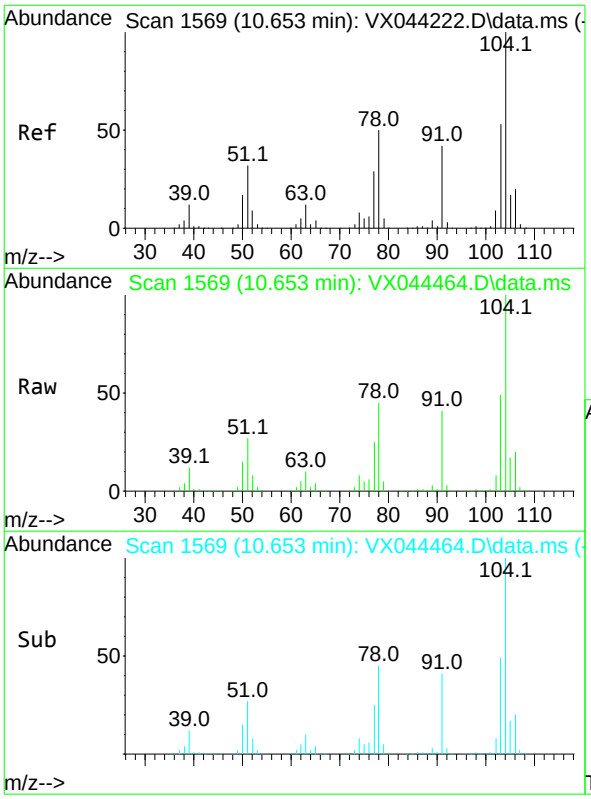
Ion	Ratio	Lower	Upper
106	100		
91	213.9	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

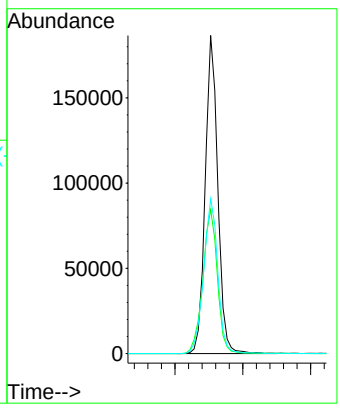
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

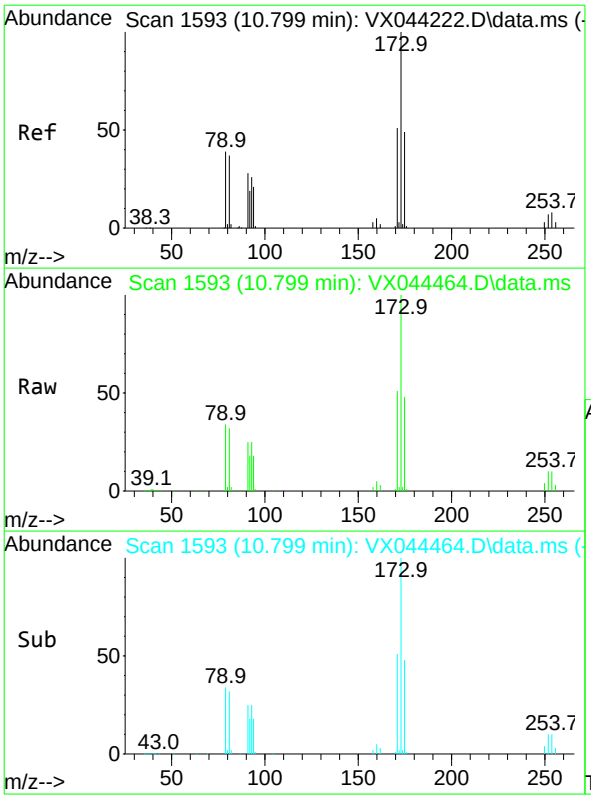


#70
Styrene
Concen: 52.761 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:104 Resp: 240058

Ion	Ratio	Lower	Upper
104	100		
78	52.3	44.6	67.0
103	55.0	45.4	68.0

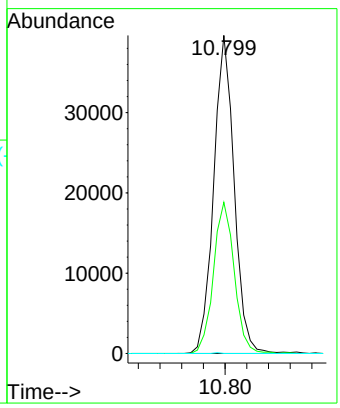




#71
Bromoform
Concen: 51.900 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:173 Resp: 51823

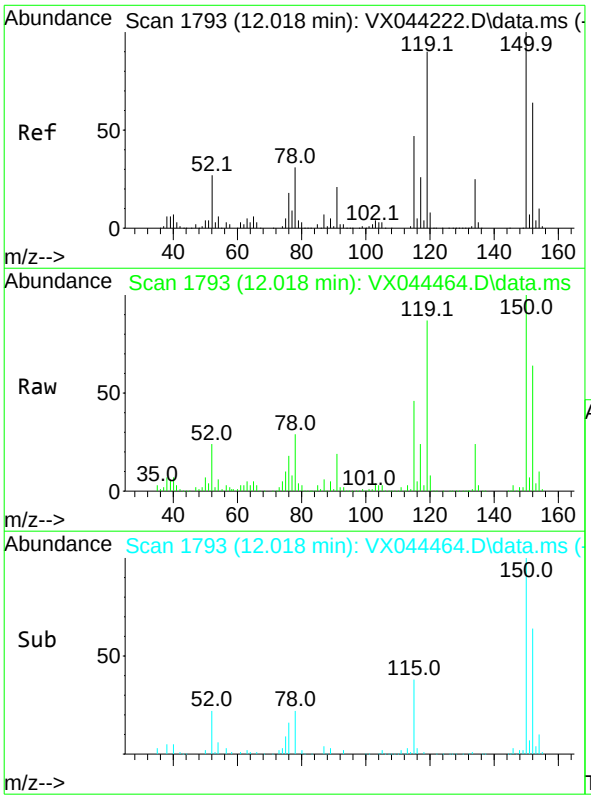
Ion	Ratio	Lower	Upper
173	100		
175	48.4	23.8	71.4
254	0.1	0.0	0.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

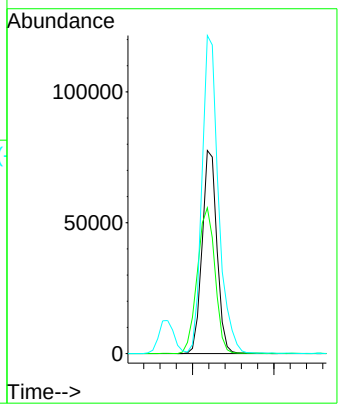
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

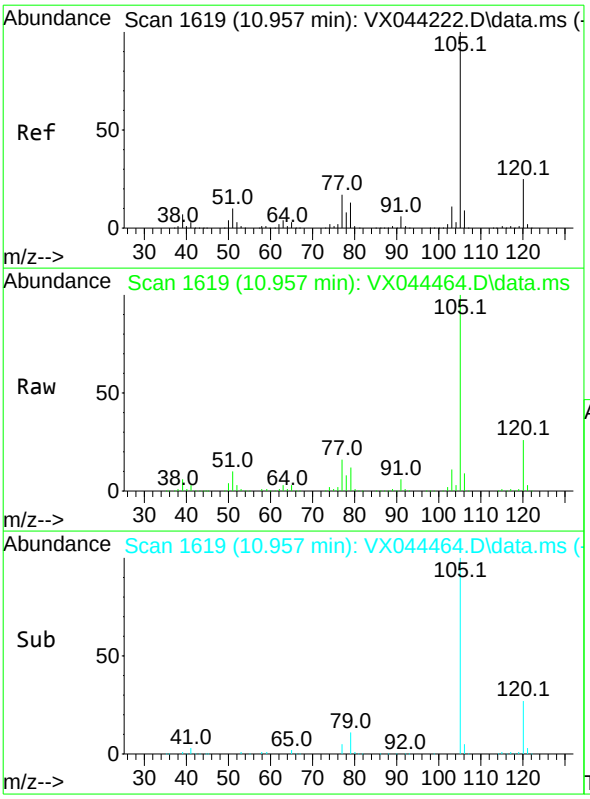


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:152 Resp: 97831

Ion	Ratio	Lower	Upper
152	100		
115	86.4	44.5	133.3
150	174.4	0.0	353.8





#73
Isopropylbenzene
Concen: 50.011 ug/l
RT: 10.957 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

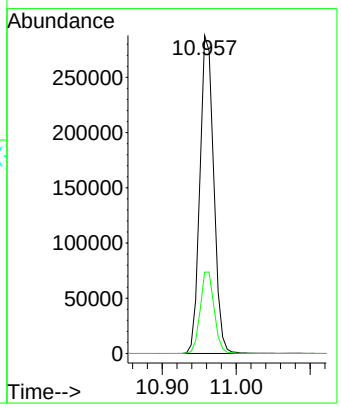
Tgt Ion:105 Resp: 374548

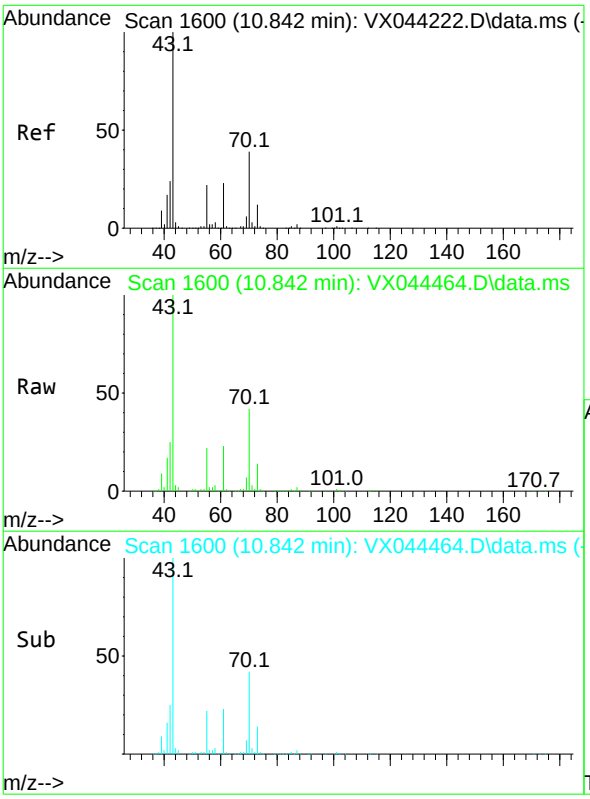
Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

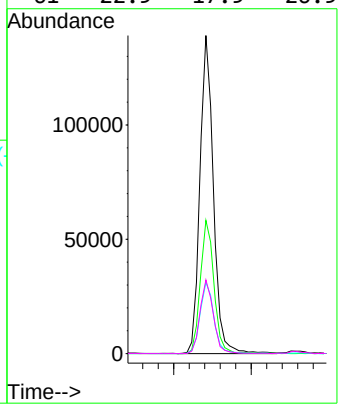


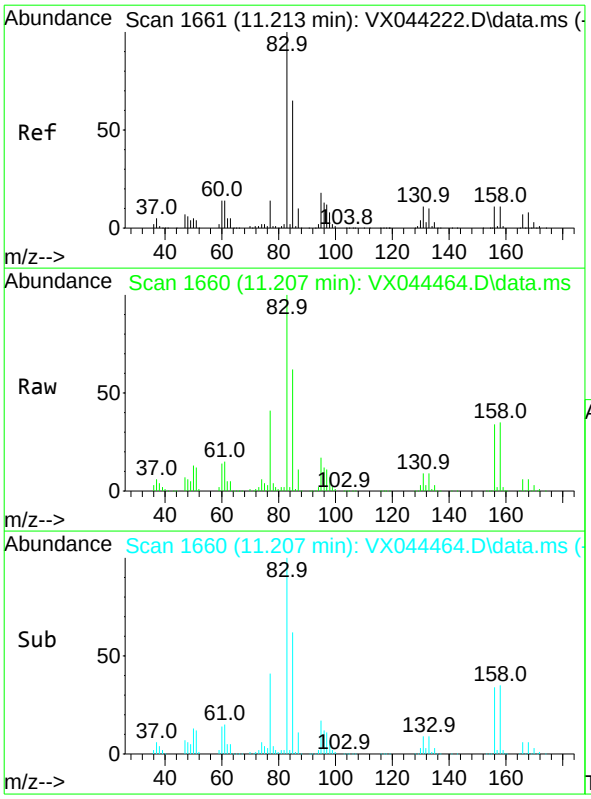


#74
N-amyl acetate
Concen: 48.576 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 168135

Ion	Ratio	Lower	Upper
43	100		
70	42.4	31.9	47.9
55	22.9	17.9	26.9
61	22.9	17.9	26.9

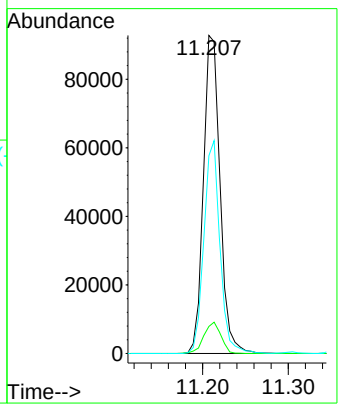




#75
1,1,2,2-Tetrachloroethane
Concen: 48.065 ug/l
RT: 11.207 min Scan# 16
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 83 Resp: 125030

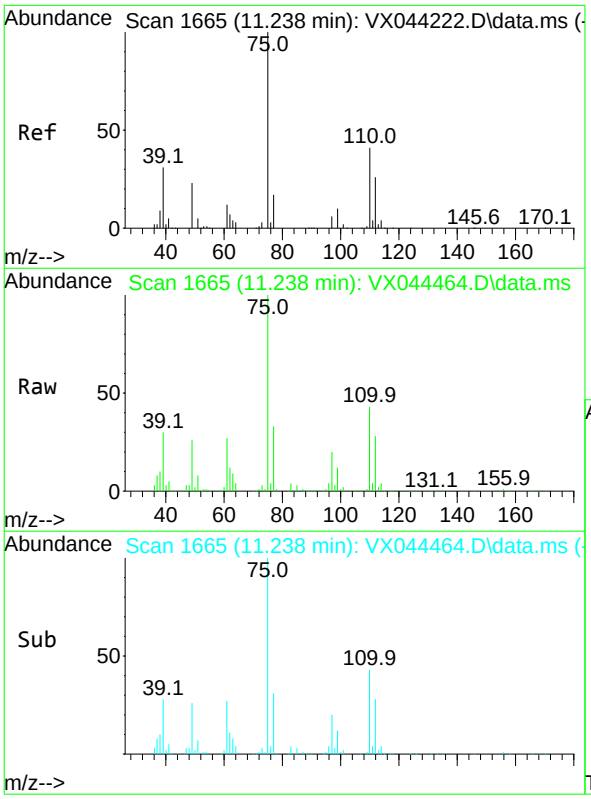
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	64.6	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

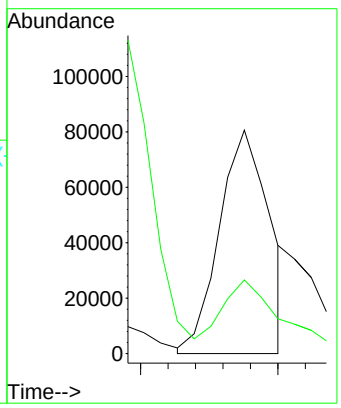
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

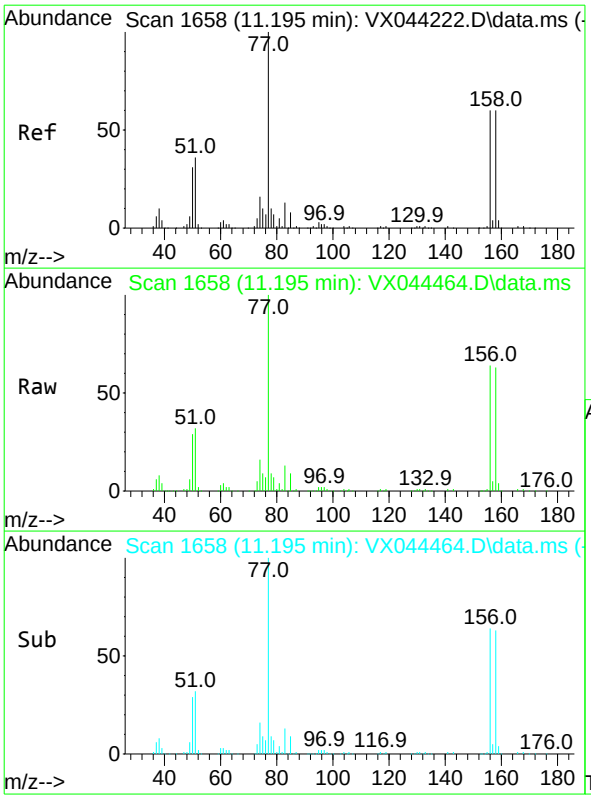


#76
1,2,3-Trichloropropane
Concen: 46.709 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 102028

Ion	Ratio	Lower	Upper
75	100		
77	40.9	20.9	62.7





#77
Bromobenzene
Concen: 51.903 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

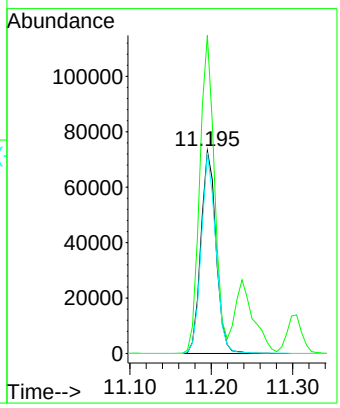
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

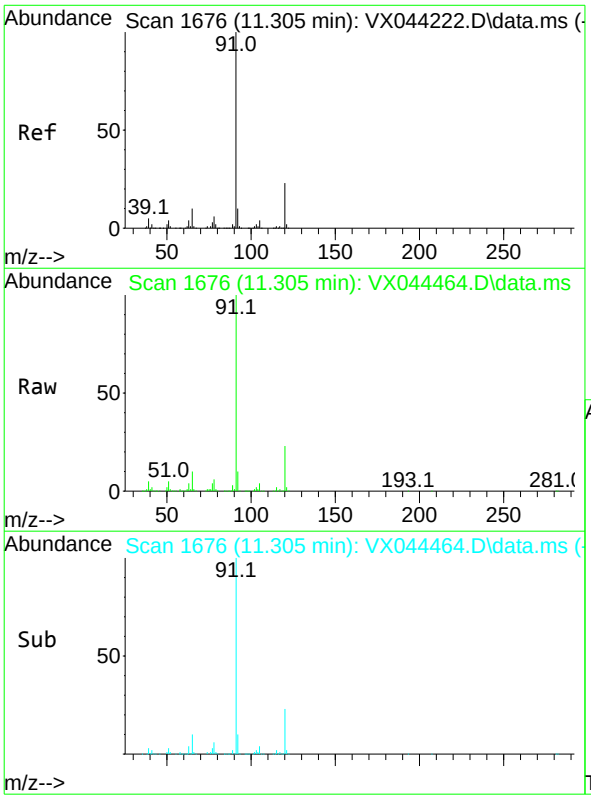
Tgt Ion:156 Resp: 94262

Ion	Ratio	Lower	Upper
156	100		
77	153.3	82.6	247.8
158	95.8	48.8	146.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

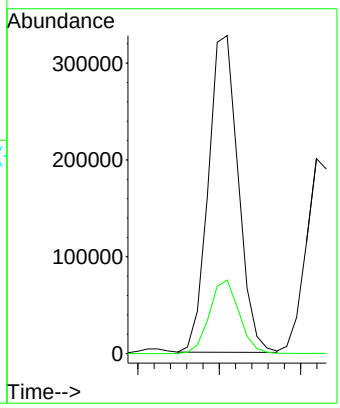


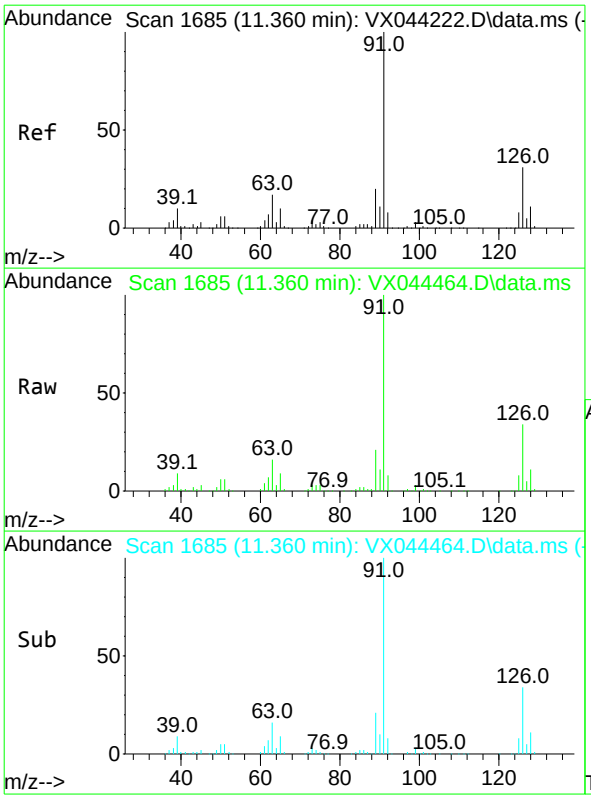


#78
n-propylbenzene
Concen: 50.432 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 91 Resp: 417465

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.0	33.0

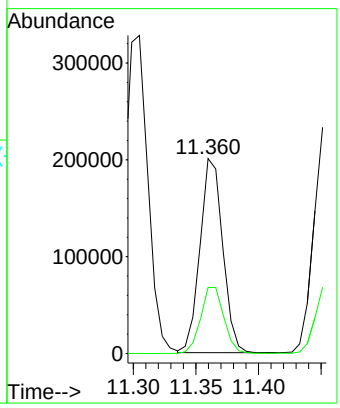




#79
2-Chlorotoluene
Concen: 47.285 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 91 Resp: 253139

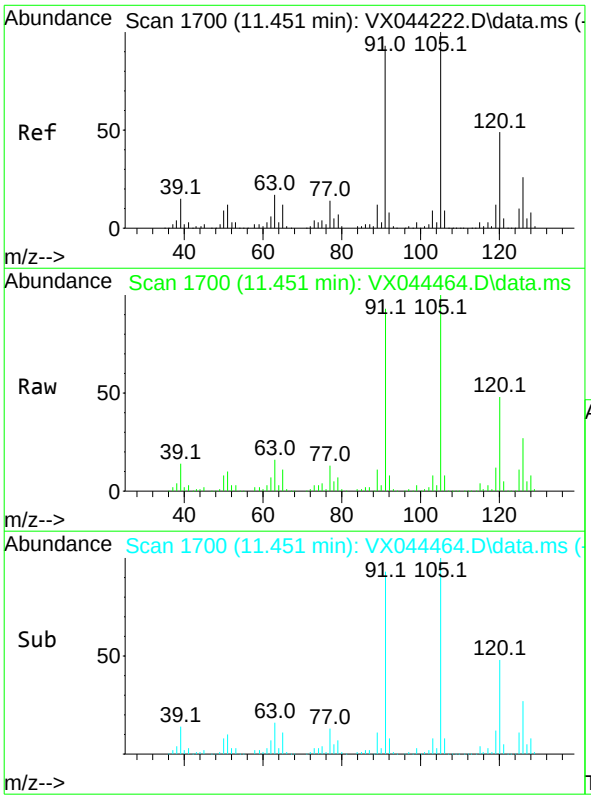
Ion	Ratio	Lower	Upper
91	100		
126	34.9	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

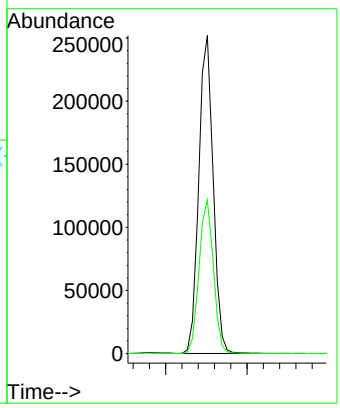
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

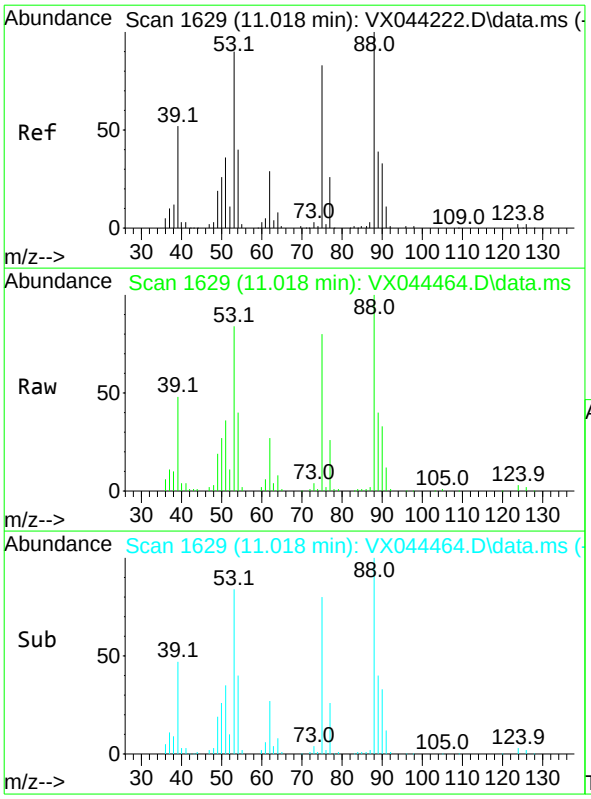


#80
1,3,5-Trimethylbenzene
Concen: 49.787 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:105 Resp: 309218

Ion	Ratio	Lower	Upper
105	100		
120	48.4	23.8	71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 43.348 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

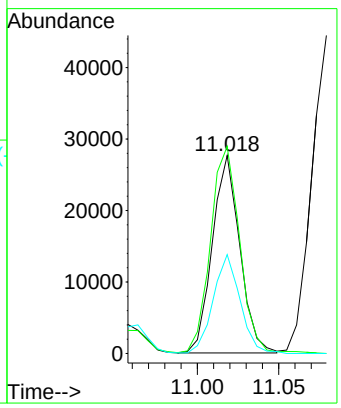
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

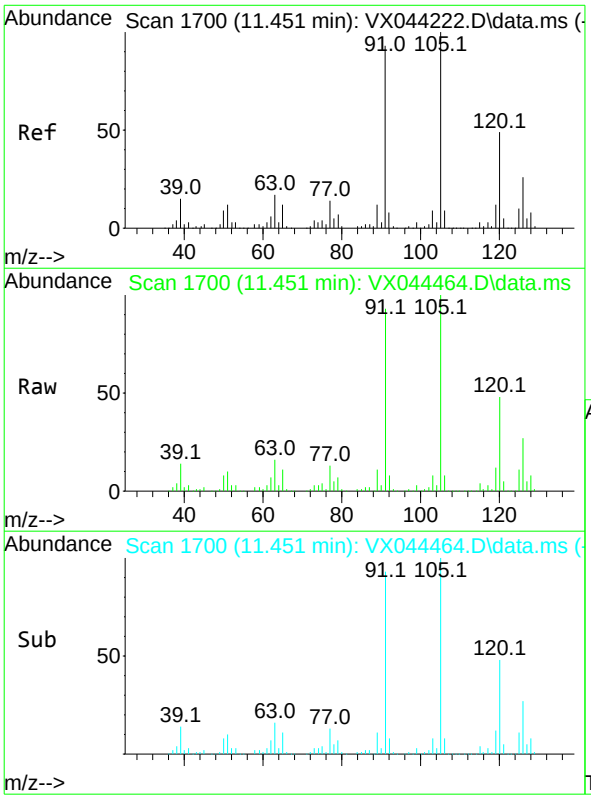
Tgt Ion: 75 Resp: 32407

Ion	Ratio	Lower	Upper
75	100		
53	111.6	93.6	140.4
89	49.1	37.3	55.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

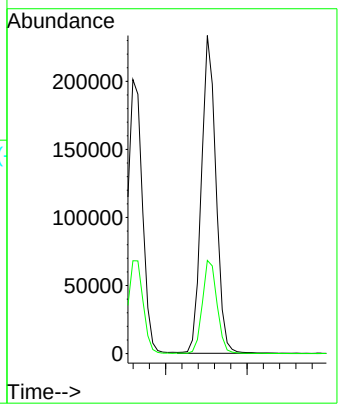


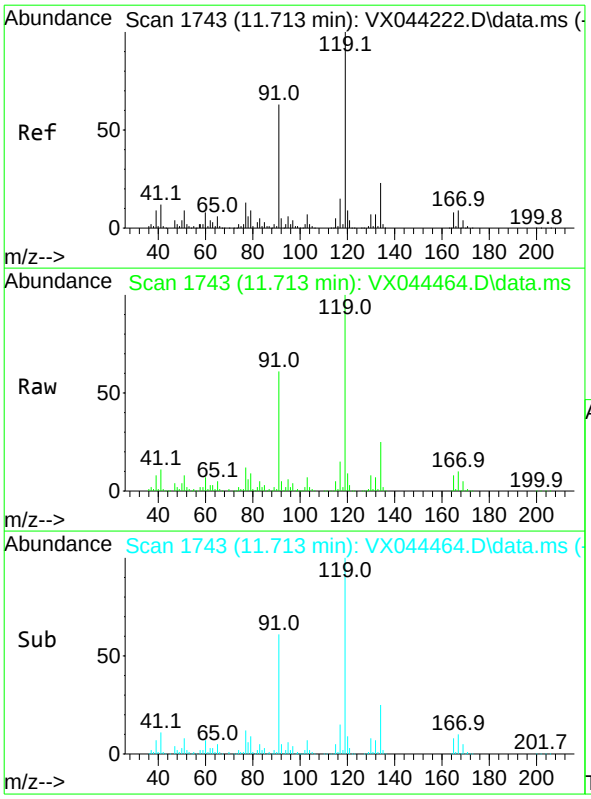


#82
4-Chlorotoluene
Concen: 48.802 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 91 Resp: 289306

Ion	Ratio	Lower	Upper
91	100		
126	29.8	14.5	43.5





#83
tert-Butylbenzene
Concen: 50.950 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

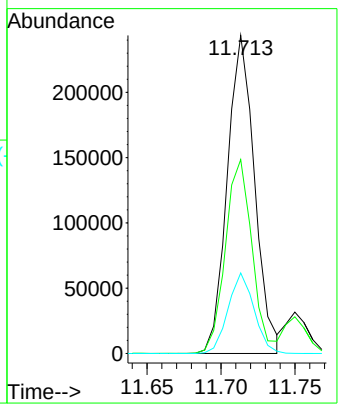
Tgt Ion:119 Resp: 312731

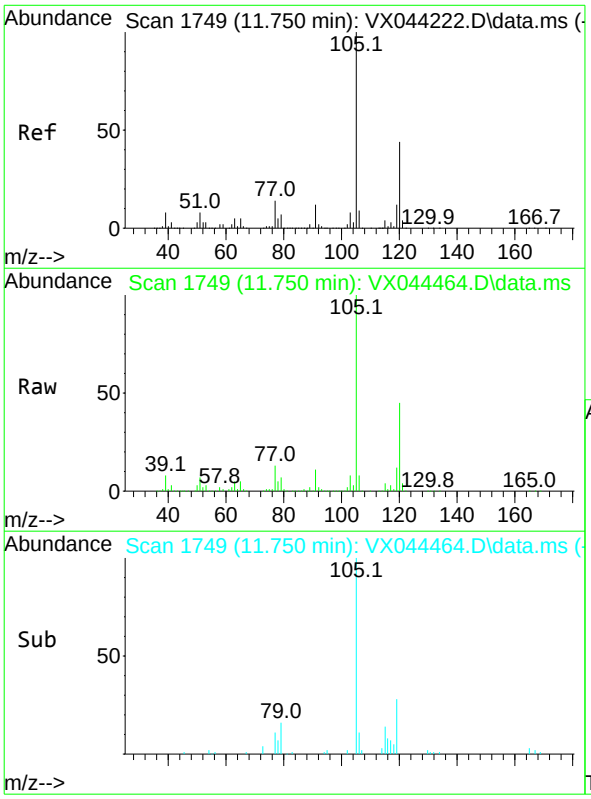
Ion	Ratio	Lower	Upper
119	100		
91	59.8	30.9	92.5
134	24.1	11.5	34.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

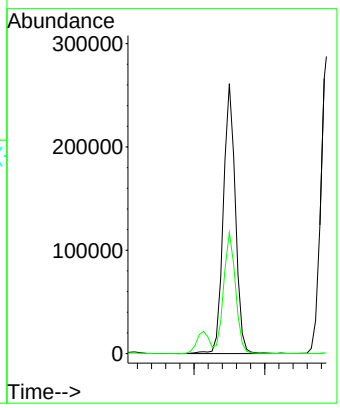


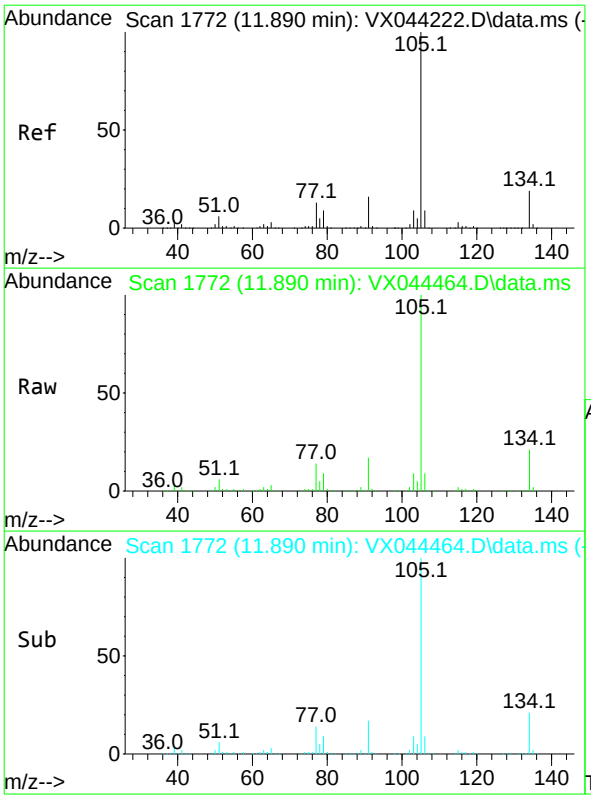


#84
1,2,4-Trimethylbenzene
Concen: 50.564 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:105 Resp: 308415

Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.7	65.1





#85
sec-Butylbenzene
Concen: 50.546 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

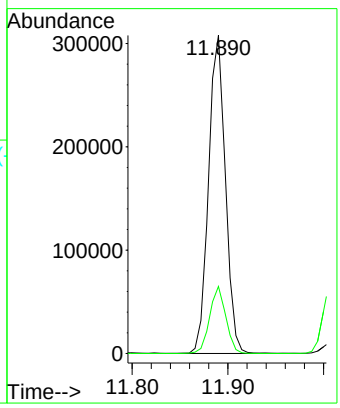
Tgt Ion:105 Resp: 376639

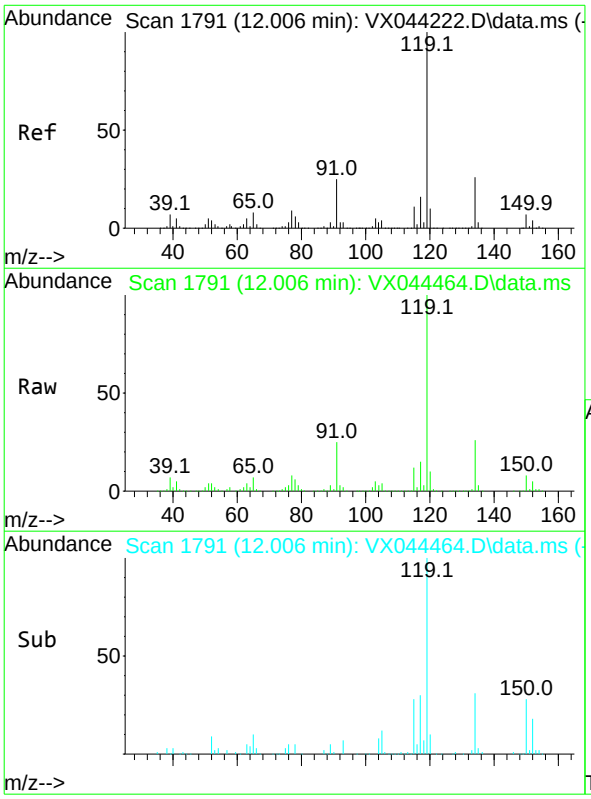
Ion	Ratio	Lower	Upper
105	100		
134	20.2	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

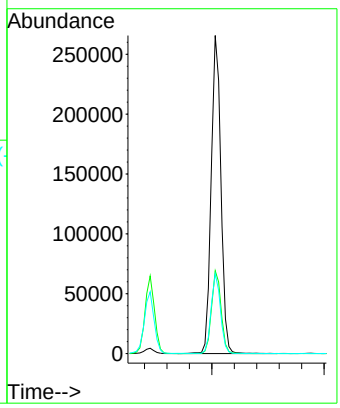


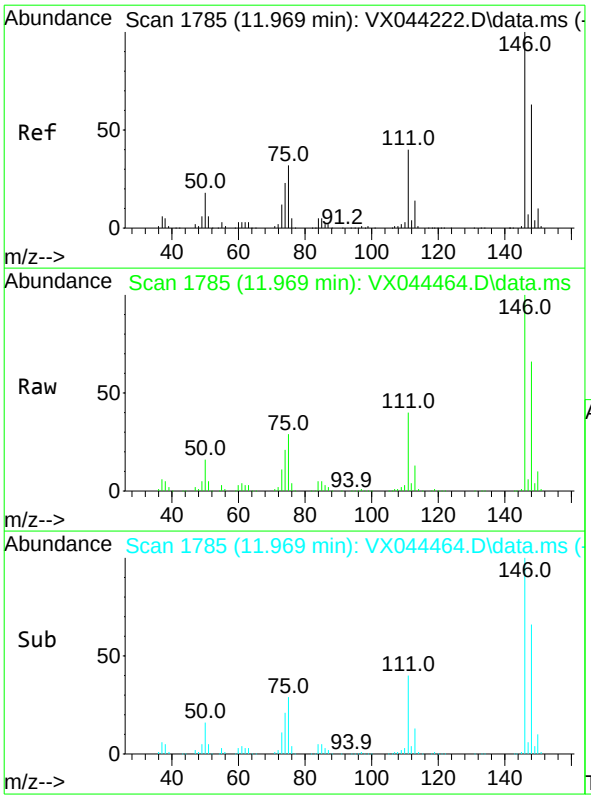


#86
p-Isopropyltoluene
Concen: 51.504 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:119 Resp: 319422

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.4
91	24.1	13.0	39.0





#87
1,3-Dichlorobenzene
Concen: 51.480 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

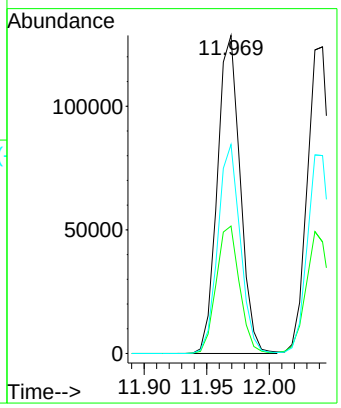
Tgt Ion:146 Resp: 163311

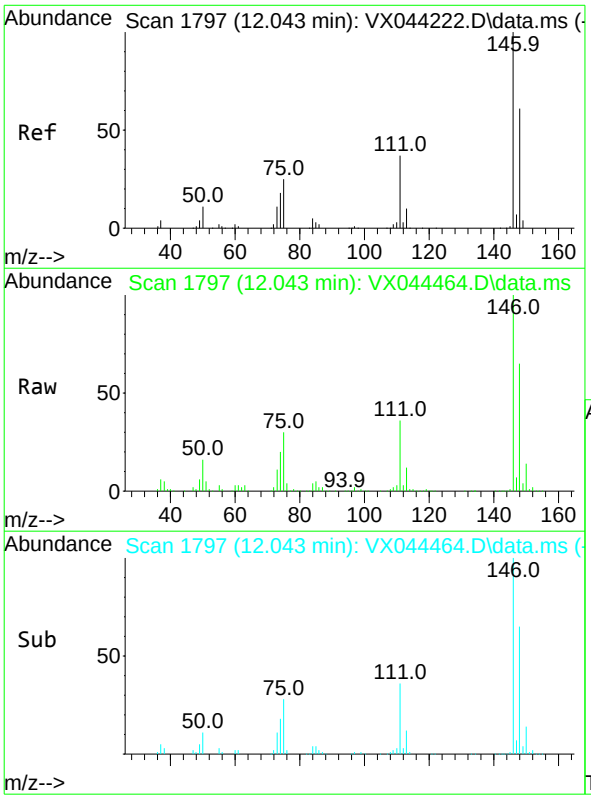
Ion	Ratio	Lower	Upper
146	100		
111	40.9	21.4	64.2
148	64.7	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

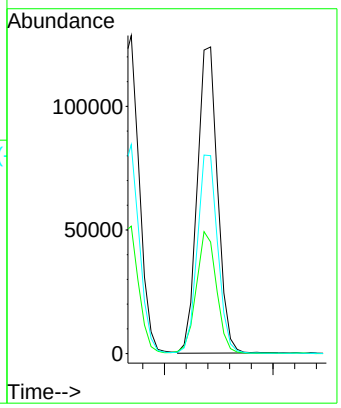


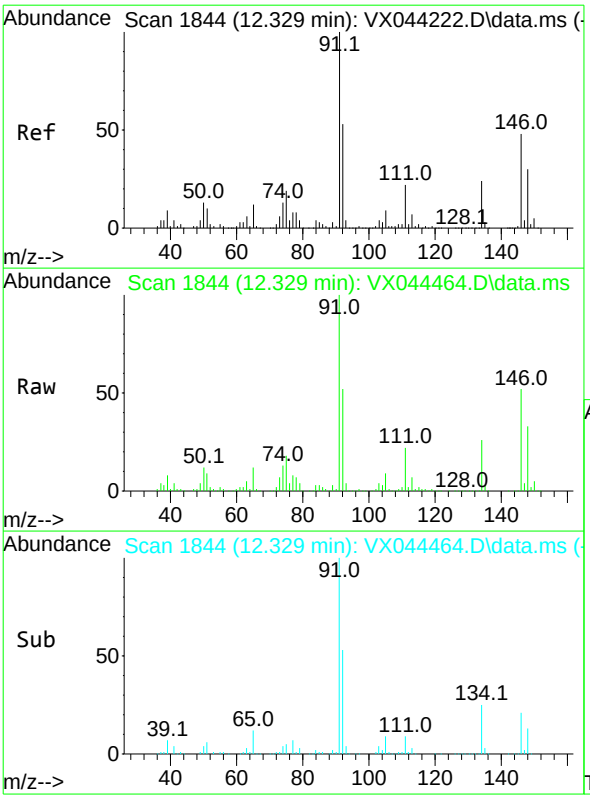


#88
1,4-Dichlorobenzene
Concen: 49.579 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:146 Resp: 161681

Ion	Ratio	Lower	Upper
146	100		
111	39.8	21.0	63.0
148	65.1	32.3	96.8





#89
n-Butylbenzene
Concen: 50.212 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

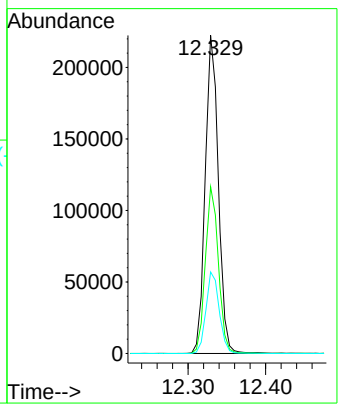
Tgt Ion: 91 Resp: 261860

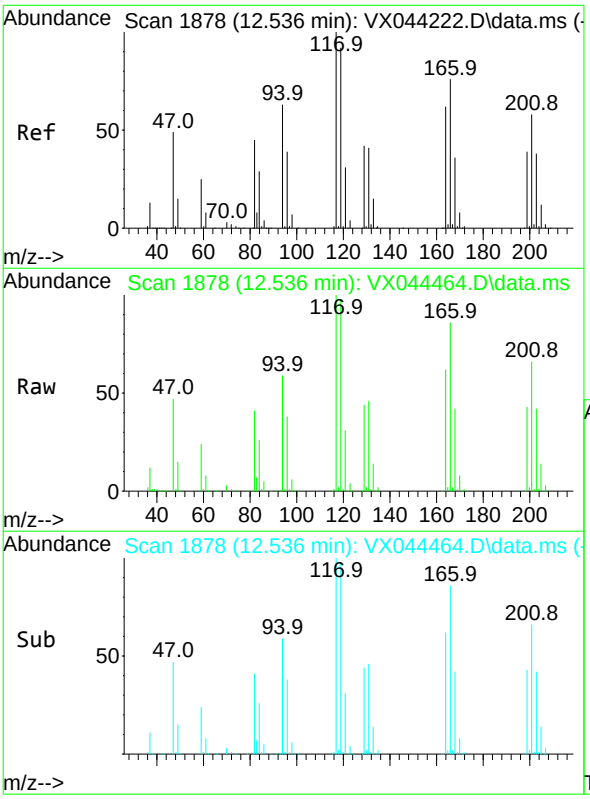
Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.6	79.7
134	26.0	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

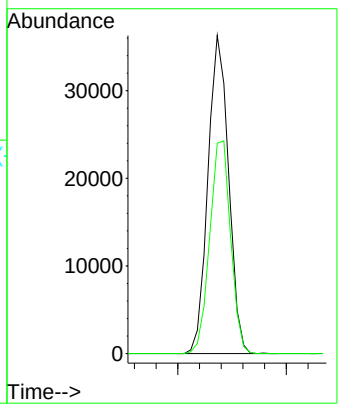


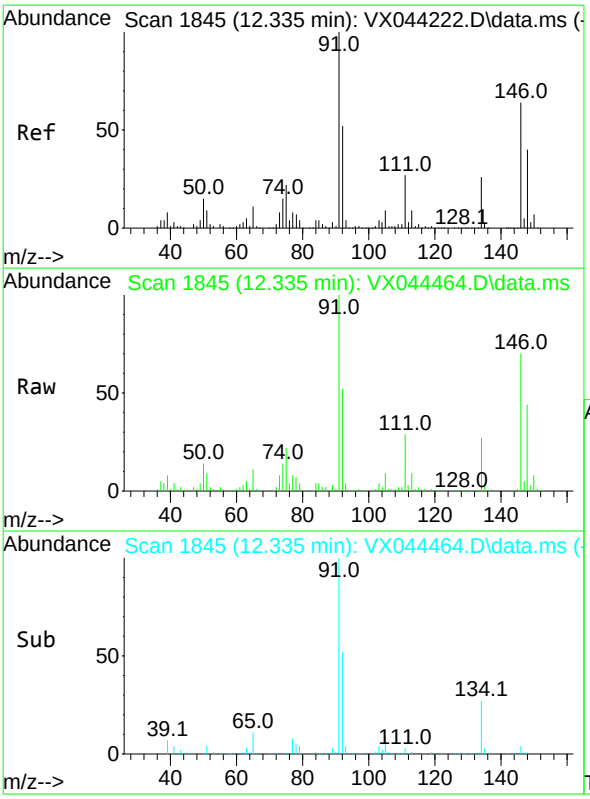


#90
Hexachloroethane
Concen: 52.940 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:117 Resp: 47928

Ion	Ratio	Lower	Upper
117	100		
201	67.8	31.4	94.2

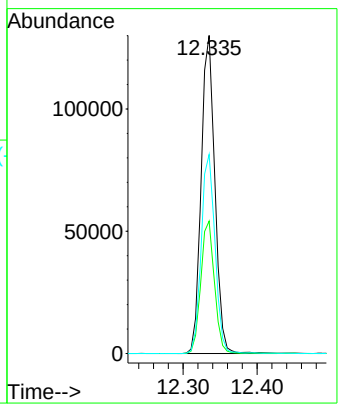




#91
1,2-Dichlorobenzene
Concen: 50.764 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:146 Resp: 167214

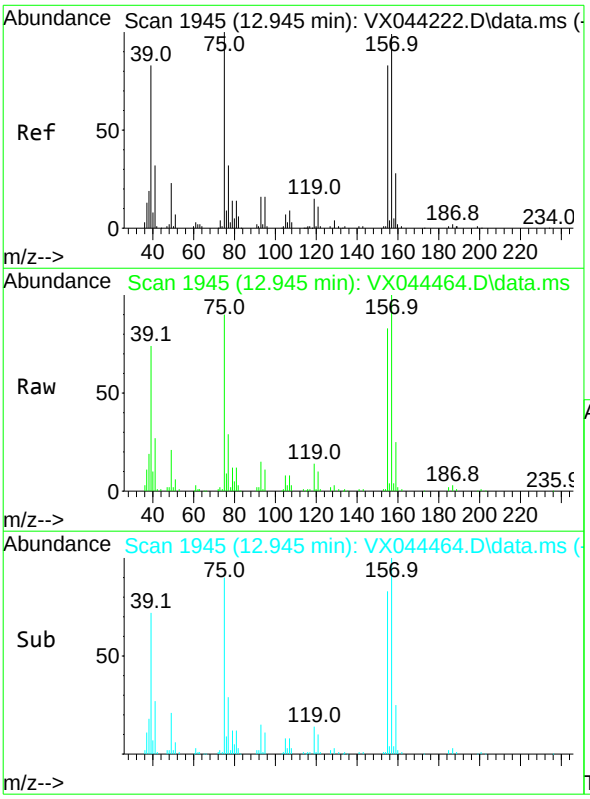
Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.4	64.3
148	63.1	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

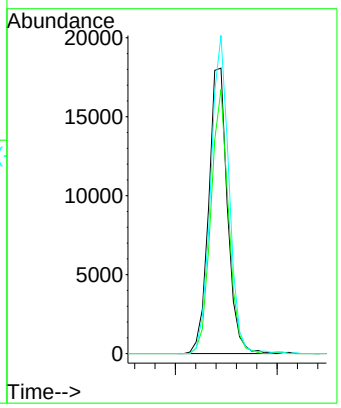
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

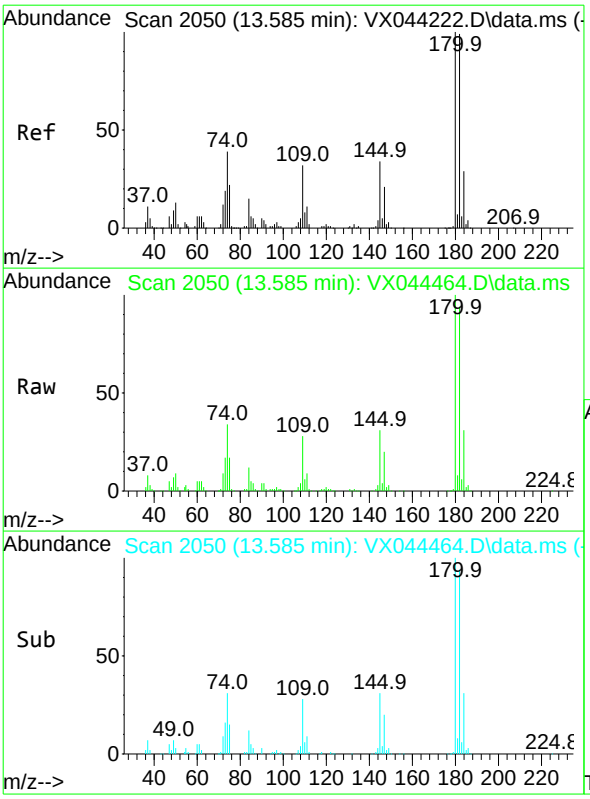


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.042 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 23250

Ion	Ratio	Lower	Upper
75	100		
155	86.4	38.1	114.3
157	107.8	47.2	141.6

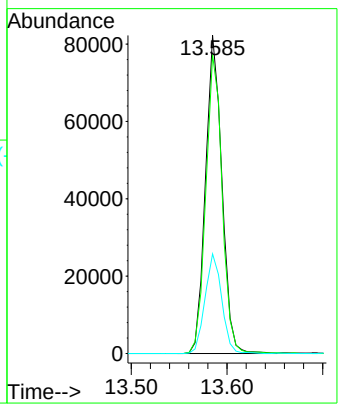




#93
1,2,4-Trichlorobenzene
Concen: 54.188 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:180 Resp: 97858

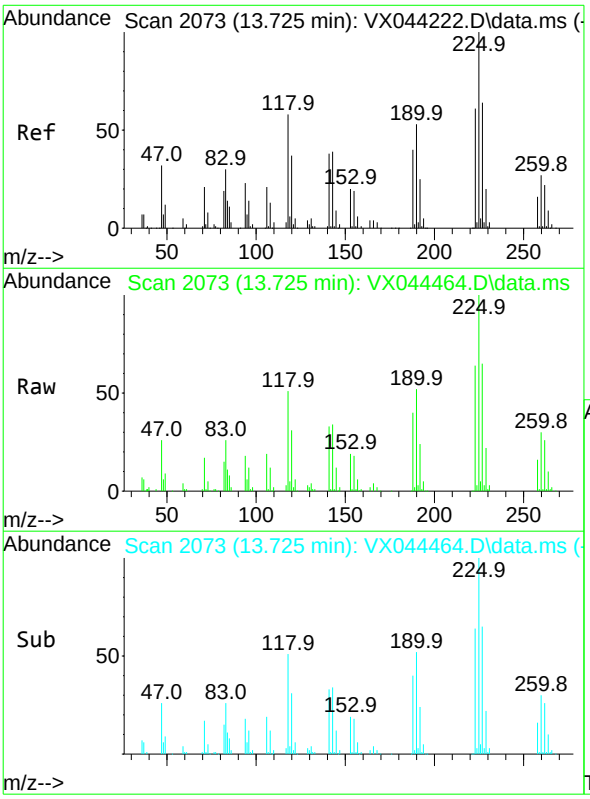
Ion	Ratio	Lower	Upper
180	100		
182	93.8	48.0	144.2
145	31.9	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

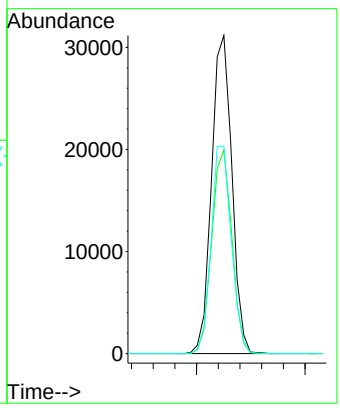
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

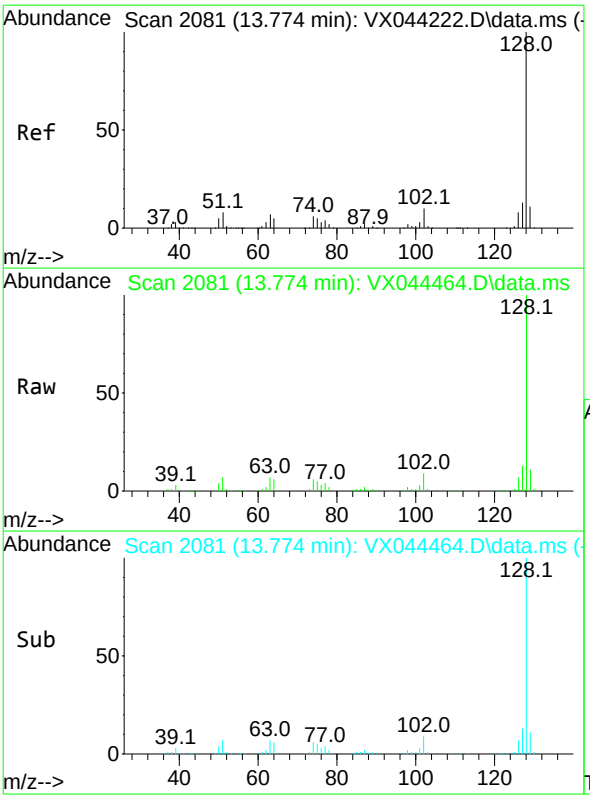


#94
Hexachlorobutadiene
Concen: 55.763 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:225 Resp: 40506

Ion	Ratio	Lower	Upper
225	100		
223	63.3	30.8	92.4
227	65.0	32.1	96.3

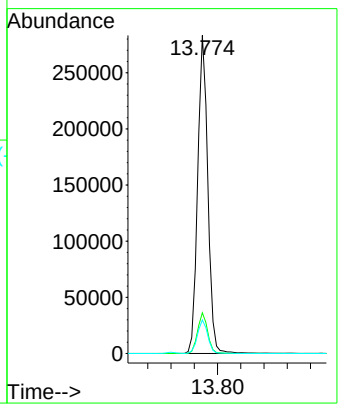




#95
Naphthalene
Concen: 48.680 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:128 Resp: 343151

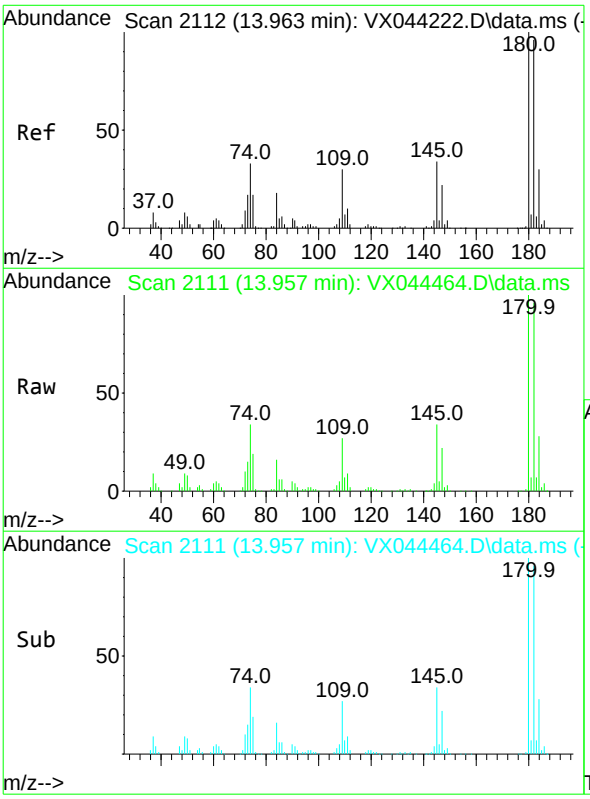
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.7	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

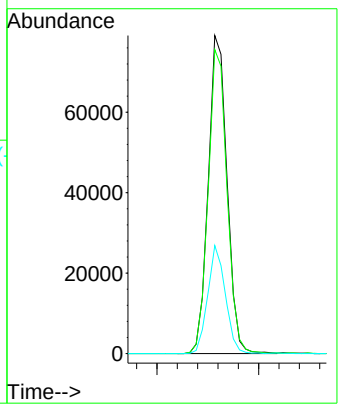
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#96
1,2,3-Trichlorobenzene
Concen: 52.939 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:180 Resp: 101400

Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.0	144.0
145	31.9	17.7	53.1



Sample Results: **VX044464.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	112	0.00
2	T	Dichlorodifluoromethane	0.773	0.744	3.8	105	0.00
3	P	Chloromethane	0.739	0.696	5.8	103	0.00
4	C	Vinyl Chloride	0.770	0.730	5.2#	104	0.00
5	T	Bromomethane	0.546	0.498	8.8	101	0.00
6	T	Chloroethane	0.480	0.507	-5.6	106	0.00
7	T	Trichlorofluoromethane	1.508	1.202	20.3	87	0.00
8	T	Diethyl Ether	0.515	0.439	14.8	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.610	0.590	3.3	107	0.00
10	T	Methyl Iodide	0.804	0.807	-0.4	106	0.00
11	T	Tert butyl alcohol	0.124	0.102	17.7	94	0.00
12	CM	1,1-Dichloroethene	0.560	0.560	0.0	105	0.00
13	T	Acrolein	0.179	0.159	11.2	96	0.00
14	T	Allyl chloride	0.933	0.888	4.8	98	0.00
15	T	Acrylonitrile	0.342	0.310	9.4	96	0.00
16	T	Acetone	0.357	0.270	24.4	79	0.00
17	T	Carbon Disulfide	1.065	1.089	-2.3	106	0.00
18	T	Methyl Acetate	0.922	0.860	6.7	101	0.00
19	T	Methyl tert-butyl Ether	2.187	1.972	9.8	95	0.00
20	T	Methylene Chloride	0.671	0.636	5.2	103	0.00
21	T	trans-1,2-Dichloroethene	0.596	0.578	3.0	104	0.00
22	T	Diisopropyl ether	2.102	1.893	9.9	97	0.00
23	T	Vinyl Acetate	1.709	1.665	2.6	97	0.00
24	P	1,1-Dichloroethane	1.172	1.125	4.0	101	0.00
25	T	2-Butanone	0.508	0.433	14.8	88	0.00
26	T	2,2-Dichloropropane	0.952	0.828	13.0	88	0.00
27	T	cis-1,2-Dichloroethene	0.756	0.719	4.9	104	0.00
28	T	Bromochloromethane	0.575	0.510	11.3	96	0.00
29	T	Tetrahydrofuran	0.326	0.277	15.0	92	0.00
30	C	Chloroform	1.316	1.190	9.6#	99	0.00
31	T	Cyclohexane	0.946	0.871	7.9	99	0.00
32	T	1,1,1-Trichloroethane	1.093	1.029	5.9	98	0.00
33	S	1,2-Dichloroethane-d4	0.877	0.778	11.3	94	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35	S	Dibromofluoromethane	0.346	0.363	-4.9	101	0.00
36	T	1,1-Dichloropropene	0.448	0.439	2.0	101	0.00
37	T	Ethyl Acetate	0.553	0.533	3.6	94	0.00
38	T	Carbon Tetrachloride	0.482	0.495	-2.7	101	0.00
39	T	Methylcyclohexane	0.535	0.550	-2.8	101	0.00
40	TM	Benzene	1.359	1.393	-2.5	101	0.00
41	T	Methacrylonitrile	0.294	0.279	5.1	95	0.00
42	TM	1,2-Dichloroethane	0.560	0.534	4.6	94	0.00
43	T	Isopropyl Acetate	0.865	0.831	3.9	93	0.00
44	TM	Trichloroethene	0.339	0.360	-6.2	105	0.00
45	C	1,2-Dichloropropane	0.347	0.345	0.6#	99	0.00
46	T	Dibromomethane	0.269	0.276	-2.6	99	0.00
47	T	Bromodichloromethane	0.465	0.491	-5.6	99	0.00
48	T	Methyl methacrylate	0.420	0.396	5.7	91	0.00

Sample Results: **VX044464.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.007	0.0	95	-0.01
50	S	Toluene-d8	1.168	1.213	-3.9	99	0.00
51	T	4-Methyl-2-Pentanone	0.556	0.524	5.8	91	0.00
52	CM	Toluene	0.853	0.855	-0.2#	100	0.00
53	T	t-1,3-Dichloropropene	0.455	0.482	-5.9	96	0.00
54	T	cis-1,3-Dichloropropene	0.507	0.531	-4.7	96	0.00
55	T	1,1,2-Trichloroethane	0.339	0.345	-1.8	99	0.00
56	T	Ethyl methacrylate	0.535	0.551	-3.0	98	0.00
57	T	1,3-Dichloropropane	0.590	0.588	0.3	98	0.00
58	T	2-Chloroethyl Vinyl ether	0.270	0.263	2.6	92	0.00
59	T	2-Hexanone	0.403	0.381	5.5	89	0.00
60	T	Dibromochloromethane	0.326	0.361	-10.7	100	0.00
61	T	1,2-Dibromoethane	0.345	0.366	-6.1	102	0.00
62	S	4-Bromofluorobenzene	0.408	0.418	-2.5	97	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64	T	Tetrachloroethene	0.332	0.343	-3.3	108	0.00
65	PM	Chlorobenzene	1.071	1.094	-2.1	101	0.00
66	T	1,1,1,2-Tetrachloroethane	0.344	0.383	-11.3	103	0.00
67	C	Ethyl Benzene	1.851	1.868	-0.9#	98	0.00
68	T	m/p-Xylenes	0.679	0.713	-5.0	102	0.00
69	T	o-Xylene	0.687	0.708	-3.1	101	0.00
70	T	Styrene	1.102	1.163	-5.5	101	0.00
71	P	Bromoform	0.219	0.251	-14.6	102	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73	T	Isopropylbenzene	3.828	3.829	-0.0	101	0.00
74	T	N-amyl acetate	1.769	1.719	2.8	92	0.00
75	P	1,1,2,2-Tetrachloroethane	1.329	1.278	3.8	98	0.00
76	T	1,2,3-Trichloropropane	1.116	1.043	6.5	95	0.00
77	T	Bromobenzene	0.928	0.964	-3.9	105	0.00
78	T	n-propylbenzene	4.231	4.267	-0.9	97	0.00
79	T	2-Chlorotoluene	2.736	2.588	5.4	96	0.00
80	T	1,3,5-Trimethylbenzene	3.174	3.161	0.4	98	0.00
81	T	trans-1,4-Dichloro-2-butene	0.347	0.331	4.6	92	0.00
82	T	4-Chlorotoluene	3.030	2.957	2.4	98	0.00
83	T	tert-Butylbenzene	3.137	3.197	-1.9	101	0.00
84	T	1,2,4-Trimethylbenzene	3.117	3.153	-1.2	98	0.00
85	T	sec-Butylbenzene	3.808	3.850	-1.1	99	0.00
86	T	p-Isopropyltoluene	3.170	3.265	-3.0	100	0.00
87	T	1,3-Dichlorobenzene	1.621	1.669	-3.0	102	0.00
88	T	1,4-Dichlorobenzene	1.667	1.653	0.8	102	0.00
89	T	n-Butylbenzene	2.665	2.677	-0.5	97	0.00
90	T	Hexachloroethane	0.463	0.490	-5.8	99	0.00
91	T	1,2-Dichlorobenzene	1.683	1.709	-1.5	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.258	0.238	7.8	89	0.00
93	T	1,2,4-Trichlorobenzene	0.923	1.000	-8.3	105	0.00
94	T	Hexachlorobutadiene	0.371	0.414	-11.6	115	0.00
95	T	Naphthalene	3.603	3.508	2.6	94	0.00

Sample Results: **VX044464.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.979	1.036	-5.8	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 5

Sample Results: **VX044464.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	112	0.00
2	T	Dichlorodifluoromethane	50.000	48.084	3.8	105	0.00
3	P	Chloromethane	50.000	47.052	5.9	103	0.00
4	C	Vinyl Chloride	50.000	47.388	5.2#	104	0.00
5	T	Bromomethane	50.000	45.581	8.8	101	0.00
6	T	Chloroethane	50.000	52.848	-5.7	106	0.00
7	T	Trichlorofluoromethane	50.000	39.855	20.3	87	0.00
8	T	Diethyl Ether	50.000	42.687	14.6	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.311	3.4	107	0.00
10	T	Methyl Iodide	50.000	50.177	-0.4	106	0.00
11	T	Tert butyl alcohol	250.000	205.778	17.7	94	0.00
12	CM	1,1-Dichloroethene	50.000	50.001	-0.0#	105	0.00
13	T	Acrolein	250.000	222.774	10.9	96	0.00
14	T	Allyl chloride	50.000	47.541	4.9	98	0.00
15	T	Acrylonitrile	250.000	226.182	9.5	96	0.00
16	T	Acetone	250.000	188.692	24.5	79	0.00
17	T	Carbon Disulfide	50.000	51.130	-2.3	106	0.00
18	T	Methyl Acetate	50.000	46.678	6.6	101	0.00
19	T	Methyl tert-butyl Ether	50.000	45.089	9.8	95	0.00
20	T	Methylene Chloride	50.000	47.401	5.2	103	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.517	3.0	104	0.00
22	T	Diisopropyl ether	50.000	45.018	10.0	97	0.00
23	T	Vinyl Acetate	250.000	243.510	2.6	97	0.00
24	P	1,1-Dichloroethane	50.000	48.018	4.0	101	0.00
25	T	2-Butanone	250.000	213.237	14.7	88	0.00
26	T	2,2-Dichloropropane	50.000	43.513	13.0	88	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.511	5.0	104	0.00
28	T	Bromochloromethane	50.000	44.369	11.3	96	0.00
29	T	Tetrahydrofuran	250.000	212.557	15.0	92	0.00
30	C	Chloroform	50.000	45.189	9.6#	99	0.00
31	T	Cyclohexane	50.000	46.033	7.9	99	0.00
32	T	1,1,1-Trichloroethane	50.000	47.095	5.8	98	0.00
33	S	1,2-Dichloroethane-d4	50.000	44.357	11.3	94	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35	S	Dibromofluoromethane	50.000	52.347	-4.7	101	0.00
36	T	1,1-Dichloropropene	50.000	49.017	2.0	101	0.00
37	T	Ethyl Acetate	50.000	48.180	3.6	94	0.00
38	T	Carbon Tetrachloride	50.000	51.365	-2.7	101	0.00
39	T	Methylcyclohexane	50.000	51.370	-2.7	101	0.00
40	TM	Benzene	50.000	51.262	-2.5	101	0.00
41	T	Methacrylonitrile	50.000	47.401	5.2	95	0.00
42	TM	1,2-Dichloroethane	50.000	47.680	4.6	94	0.00
43	T	Isopropyl Acetate	50.000	48.047	3.9	93	0.00
44	TM	Trichloroethene	50.000	53.083	-6.2	105	0.00
45	C	1,2-Dichloropropane	50.000	49.622	0.8#	99	0.00
46	T	Dibromomethane	50.000	51.184	-2.4	99	0.00
47	T	Bromodichloromethane	50.000	52.723	-5.4	99	0.00
48	T	Methyl methacrylate	50.000	47.115	5.8	91	0.00

Sample Results: **VX044464.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1003.530	-0.4	95	-0.01
50	S	Toluene-d8	50.000	51.923	-3.8	99	0.00
51	T	4-Methyl-2-Pentanone	250.000	235.413	5.8	91	0.00
52	CM	Toluene	50.000	50.071	-0.1#	100	0.00
53	T	t-1,3-Dichloropropene	50.000	48.388	3.2	96	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.437	-4.9	96	0.00
55	T	1,1,2-Trichloroethane	50.000	50.814	-1.6	99	0.00
56	T	Ethyl methacrylate	50.000	51.516	-3.0	98	0.00
57	T	1,3-Dichloropropane	50.000	49.799	0.4	98	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	243.652	2.5	92	0.00
59	T	2-Hexanone	250.000	236.376	5.4	89	0.00
60	T	Dibromochloromethane	50.000	50.206	-0.4	100	0.00
61	T	1,2-Dibromoethane	50.000	53.053	-6.1	102	0.00
62	S	4-Bromofluorobenzene	50.000	51.161	-2.3	97	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64	T	Tetrachloroethene	50.000	51.727	-3.5	108	0.00
65	PM	Chlorobenzene	50.000	51.056	-2.1	101	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	55.601	-11.2	103	0.00
67	C	Ethyl Benzene	50.000	50.462	-0.9#	98	0.00
68	T	m/p-Xylenes	100.000	105.028	-5.0	102	0.00
69	T	o-Xylene	50.000	51.494	-3.0	101	0.00
70	T	Styrene	50.000	52.761	-5.5	101	0.00
71	P	Bromoform	50.000	51.900	-3.8	102	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73	T	Isopropylbenzene	50.000	50.011	-0.0	101	0.00
74	T	N-amyl acetate	50.000	48.576	2.8	92	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	48.065	3.9	98	0.00
76	T	1,2,3-Trichloropropane	50.000	46.709	6.6	95	0.00
77	T	Bromobenzene	50.000	51.903	-3.8	105	0.00
78	T	n-propylbenzene	50.000	50.432	-0.9	97	0.00
79	T	2-Chlorotoluene	50.000	47.285	5.4	96	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.787	0.4	98	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	43.348	13.3	92	0.00
82	T	4-Chlorotoluene	50.000	48.802	2.4	98	0.00
83	T	tert-Butylbenzene	50.000	50.950	-1.9	101	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.564	-1.1	98	0.00
85	T	sec-Butylbenzene	50.000	50.546	-1.1	99	0.00
86	T	p-Isopropyltoluene	50.000	51.504	-3.0	100	0.00
87	T	1,3-Dichlorobenzene	50.000	51.480	-3.0	102	0.00
88	T	1,4-Dichlorobenzene	50.000	49.579	0.8	102	0.00
89	T	n-Butylbenzene	50.000	50.212	-0.4	97	0.00
90	T	Hexachloroethane	50.000	52.940	-5.9	99	0.00
91	T	1,2-Dichlorobenzene	50.000	50.764	-1.5	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	46.042	7.9	89	0.00
93	T	1,2,4-Trichlorobenzene	50.000	54.188	-8.4	105	0.00
94	T	Hexachlorobutadiene	50.000	55.763	-11.5	115	0.00
95	T	Naphthalene	50.000	48.680	2.6	94	0.00

Sample Results: **VX044464.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.939	-5.9	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VX044466.D**

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/23/2024 08:49

Lab File ID: VX044466.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.826		6.86	20
Chloromethane	0.739	0.733	0.1	-0.81	20
Vinyl Chloride	0.770	0.718		-6.75	20
Bromomethane	0.546	0.480		-12.09	20
Chloroethane	0.480	0.398		-17.08	20
Trichlorofluoromethane	1.508	1.293		-14.26	20
1,1,2-Trichlorotrifluoroethane	0.610	0.663		8.69	20
1,1-Dichloroethene	0.560	0.569		1.61	20
Acetone	0.357	0.295		-17.37	20
Carbon Disulfide	1.065	0.991		-6.95	20
Methyl tert-butyl Ether	2.187	1.927		-11.89	20
Methyl Acetate	0.922	0.827		-10.3	20
Methylene Chloride	0.671	0.595		-11.33	20
trans-1,2-Dichloroethene	0.596	0.569		-4.53	20
1,1-Dichloroethane	1.172	1.079	0.1	-7.93	20
Cyclohexane	0.946	0.964		1.9	20
2-Butanone	0.508	0.426		-16.14	20
Carbon Tetrachloride	0.482	0.532		10.37	20
cis-1,2-Dichloroethene	0.756	0.701		-7.28	20
Bromochloromethane	0.575	0.473		-17.74	20
Chloroform	1.316	1.165		-11.47	20
1,1,1-Trichloroethane	1.093	1.033		-5.49	20
Methylcyclohexane	0.535	0.657		22.8	20
Benzene	1.359	1.479		8.83	20
1,2-Dichloroethane	0.560	0.539		-3.75	20
Trichloroethene	0.339	0.375		10.62	20
1,2-Dichloropropane	0.347	0.363		4.61	20
Bromodichloromethane	0.465	0.505		8.6	20
4-Methyl-2-Pentanone	0.556	0.519		-6.66	20
Toluene	0.853	0.904		5.98	20
t-1,3-Dichloropropene	0.455	0.481		5.71	20
cis-1,3-Dichloropropene	0.507	0.551		8.68	20
1,1,2-Trichloroethane	0.339	0.361		6.49	20
2-Hexanone	0.403	0.376		-6.7	20
Dibromochloromethane	0.326	0.354		8.59	20
1,2-Dibromoethane	0.345	0.365		5.8	20
Tetrachloroethene	0.332	0.399		20.18	20
Chlorobenzene	1.071	1.145	0.3	6.91	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VX044466.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/23/2024 08:49

Lab File ID: VX044466.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.931		4.32	20
m/p-Xylenes	0.679	0.747		10.02	20
o-Xylene	0.687	0.732		6.55	20
Styrene	1.102	1.199		8.8	20
Bromoform	0.219	0.252	0.1	15.07	20
Isopropylbenzene	3.828	4.164		8.78	20
1,1,2,2-Tetrachloroethane	1.329	1.384	0.3	4.14	20
1,3-Dichlorobenzene	1.621	1.739		7.28	20
1,4-Dichlorobenzene	1.667	1.793		7.56	20
1,2-Dichlorobenzene	1.684	1.789		6.24	20
1,2-Dibromo-3-Chloropropane	0.258	0.256		-0.77	20
1,2,4-Trichlorobenzene	0.923	1.029		11.48	20
1,2,3-Trichlorobenzene	0.979	1.065		8.78	20
1,2-Dichloroethane-d4	0.877	0.735		-16.19	20
Dibromofluoromethane	0.346	0.372		7.51	20
Toluene-d8	1.168	1.249		6.93	20
4-Bromofluorobenzene	0.408	0.415		1.72	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Sample Results: **VX044466.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044466.D
Acq On : 23 Dec 2024 08:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 23 21:50:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	98270	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	155098	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	129773	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59280	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	72225	41.918	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 83.840%			
35) Dibromofluoromethane	5.379	113	57719	53.732	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.460%			
50) Toluene-d8	8.641	98	193768	53.468	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.940%			
62) 4-Bromofluorobenzene	11.079	95	64363	50.827	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.660%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	81189	53.431	ug/l	95
3) Chloromethane	1.294	50	72049	49.584	ug/l	97
4) Vinyl Chloride	1.380	62	70604	46.640	ug/l	98
5) Bromomethane	1.599	94	47151	43.904	ug/l	98
6) Chloroethane	1.666	64	39107	41.487	ug/l	100
7) Trichlorofluoromethane	1.867	101	127064	42.875	ug/l	99
8) Diethyl Ether	2.130	74	38233	37.795	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	65130	54.311	ug/l	95
10) Methyl Iodide	2.447	142	70995	44.919	ug/l	97
11) Tert butyl alcohol	2.989	59	17549	72.268	ug/l #	71
12) 1,1-Dichloroethene	2.312	96	55954	50.798	ug/l	97
13) Acrolein	2.233	56	61730	175.615	ug/l	100
14) Allyl chloride	2.654	41	85968	46.857	ug/l	98
15) Acrylonitrile	3.062	53	157669	234.398	ug/l	99
16) Acetone	2.386	43	144825	206.174	ug/l	95
17) Carbon Disulfide	2.501	76	97346	46.493	ug/l	100
18) Methyl Acetate	2.703	43	81261	44.867	ug/l	95
19) Methyl tert-butyl Ether	3.111	73	189369	44.056	ug/l	98
20) Methylene Chloride	2.782	84	58446	44.299	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	55872	47.727	ug/l	95
22) Diisopropyl ether	3.751	45	185514	44.904	ug/l	88
23) Vinyl Acetate	3.715	43	783324	233.215	ug/l	97
24) 1,1-Dichloroethane	3.599	63	106007	46.032	ug/l	98
25) 2-Butanone	4.556	43	209192	209.482	ug/l	99
26) 2,2-Dichloropropane	4.464	77	95219	50.896	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	68850	46.309	ug/l	95
28) Bromochloromethane	4.891	49	46458	41.140	ug/l	95
29) Tetrahydrofuran	5.001	42	135710	211.723	ug/l	100
30) Chloroform	5.080	83	114443	44.231	ug/l	98
31) Cyclohexane	5.458	56	94719	50.934	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	101477	47.248	ug/l	99
36) 1,1-Dichloropropene	5.684	75	77076	55.509	ug/l	99
37) Ethyl Acetate	4.702	43	82758	48.216	ug/l	97
38) Carbon Tetrachloride	5.665	117	82491	55.181	ug/l	98
39) Methylcyclohexane	7.372	83	101951	61.418	ug/l	97
40) Benzene	6.025	78	229329	54.397	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044466.D
Acq On : 23 Dec 2024 08:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 23 21:50:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	42994	47.172	ug/l		94
42) 1,2-Dichloroethane	6.074	62	83638	48.161	ug/l		97
43) Isopropyl Acetate	6.336	43	128551	47.918	ug/l		97
44) Trichloroethene	7.116	130	58165	55.326	ug/l		94
45) 1,2-Dichloropropane	7.421	63	56311	52.281	ug/l		99
46) Dibromomethane	7.574	93	43787	52.402	ug/l		96
47) Bromodichloromethane	7.818	83	78361	54.300	ug/l		100
48) Methyl methacrylate	7.690	41	61073	46.898	ug/l		96
49) 1,4-Dioxane	7.677	88	21715	1005.738	ug/l	#	84
51) 4-Methyl-2-Pentanone	8.573	43	402283	233.216	ug/l		99
52) Toluene	8.714	92	140179	52.949	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	74563	48.256	ug/l		95
54) cis-1,3-Dichloropropene	8.360	75	85414	54.358	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	56021	53.264	ug/l		95
56) Ethyl methacrylate	9.116	69	81680	49.194	ug/l		95
57) 1,3-Dichloropropane	9.305	76	94586	51.667	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	203293	242.753	ug/l		97
59) 2-Hexanone	9.433	43	291491	233.464	ug/l		97
60) Dibromochloromethane	9.518	129	54898	49.335	ug/l		100
61) 1,2-Dibromoethane	9.604	107	56628	52.895	ug/l		98
64) Tetrachloroethene	9.268	164	51836	60.182	ug/l		98
65) Chlorobenzene	10.079	112	148588	53.435	ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.159	131	50561	56.575	ug/l		100
67) Ethyl Benzene	10.189	91	250606	52.159	ug/l		96
68) m/p-Xylenes	10.299	106	193976	110.024	ug/l		96
69) o-Xylene	10.640	106	94957	53.232	ug/l		93
70) Styrene	10.652	104	155555	54.396	ug/l		95
71) Bromoform	10.799	173	32723	52.112	ug/l	#	99
73) Isopropylbenzene	10.957	105	246838	54.392	ug/l		99
74) N-amyl acetate	10.841	43	101119	48.214	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.213	83	82068	52.066	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	66533m	50.267	ug/l		
77) Bromobenzene	11.195	156	58269	52.949	ug/l		97
78) n-propylbenzene	11.299	91	278932	55.610	ug/l		99
79) 2-Chlorotoluene	11.360	91	166232	51.245	ug/l		96
80) 1,3,5-Trimethylbenzene	11.451	105	202499	53.807	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	22335	48.538	ug/l		98
82) 4-Chlorotoluene	11.451	91	190339	52.988	ug/l		100
83) tert-Butylbenzene	11.713	119	202328	54.400	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	206380	55.839	ug/l		99
85) sec-Butylbenzene	11.890	105	245317	54.332	ug/l		99
86) p-Isopropyltoluene	12.006	119	207299	55.162	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	103109	53.639	ug/l		96
88) 1,4-Dichlorobenzene	12.042	146	106265	53.777	ug/l		98
89) n-Butylbenzene	12.329	91	173517	54.910	ug/l		100
90) Hexachloroethane	12.536	117	30390	55.398	ug/l		90
91) 1,2-Dichlorobenzene	12.335	146	106046	53.130	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	15164	49.558	ug/l		87
93) 1,2,4-Trichlorobenzene	13.585	180	61001	55.746	ug/l		99
94) Hexachlorobutadiene	13.719	225	25708	58.407	ug/l		98
95) Naphthalene	13.774	128	225150	52.712	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	63159	54.418	ug/l		98

Sample Results: **VX044466.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044466.D
Acq On : 23 Dec 2024 08:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

Quant Time: Dec 23 21:50:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

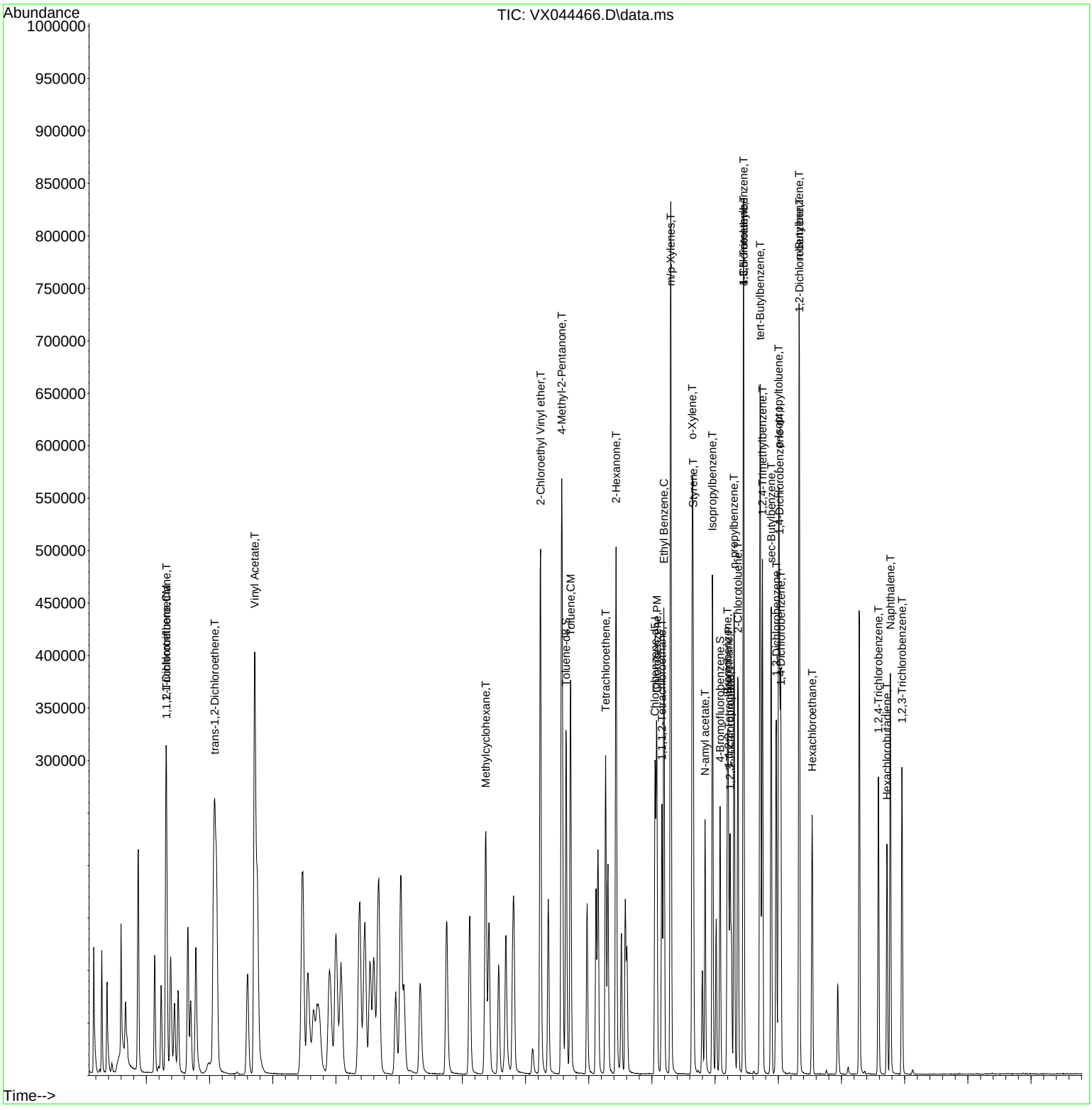
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044466.D
Acq On : 23 Dec 2024 08:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

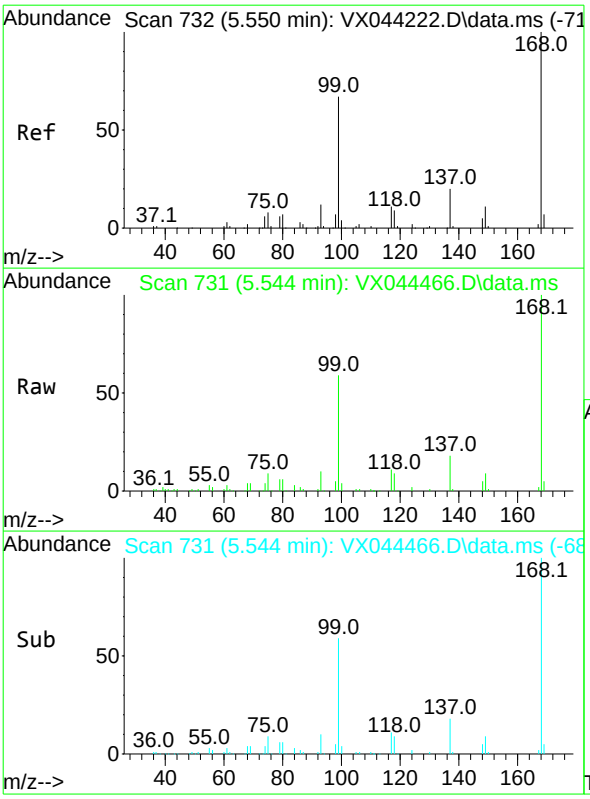
Quant Time: Dec 23 21:50:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

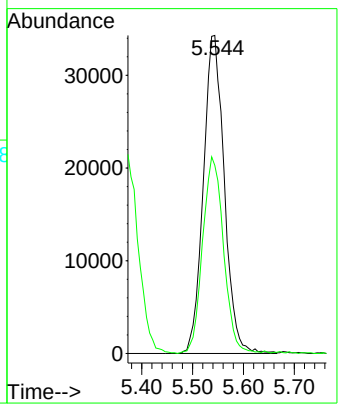




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:168 Resp: 98270

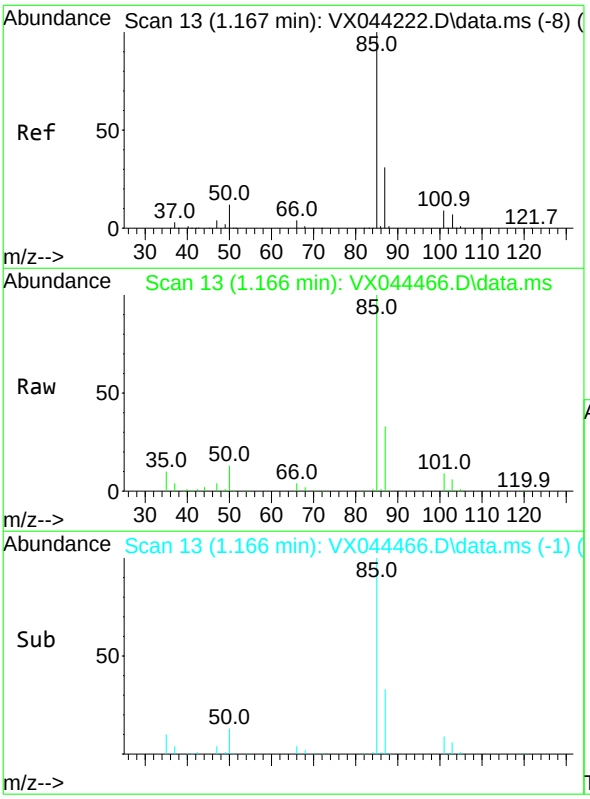
Ion	Ratio	Lower	Upper
168	100		
99	59.1	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

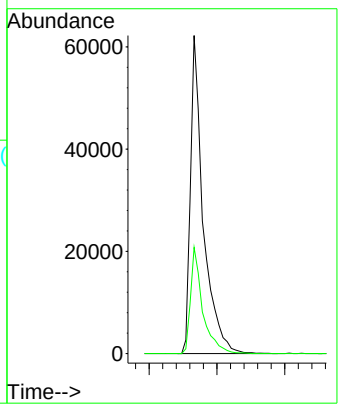
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

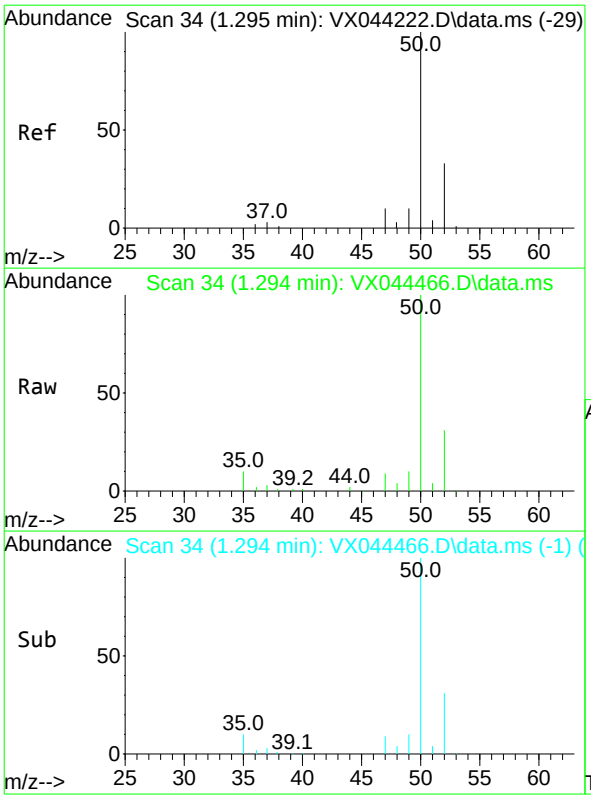


#2
Dichlorodifluoromethane
Concen: 53.431 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 85 Resp: 81189

Ion	Ratio	Lower	Upper
85	100		
87	33.4	15.4	46.4

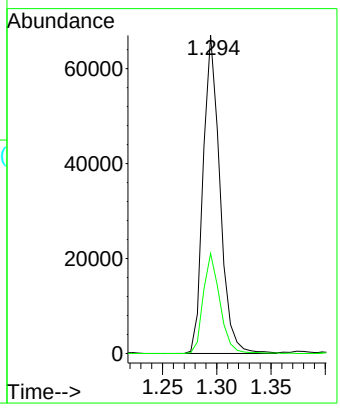




#3
Chloromethane
Concen: 49.584 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 50 Resp: 72049

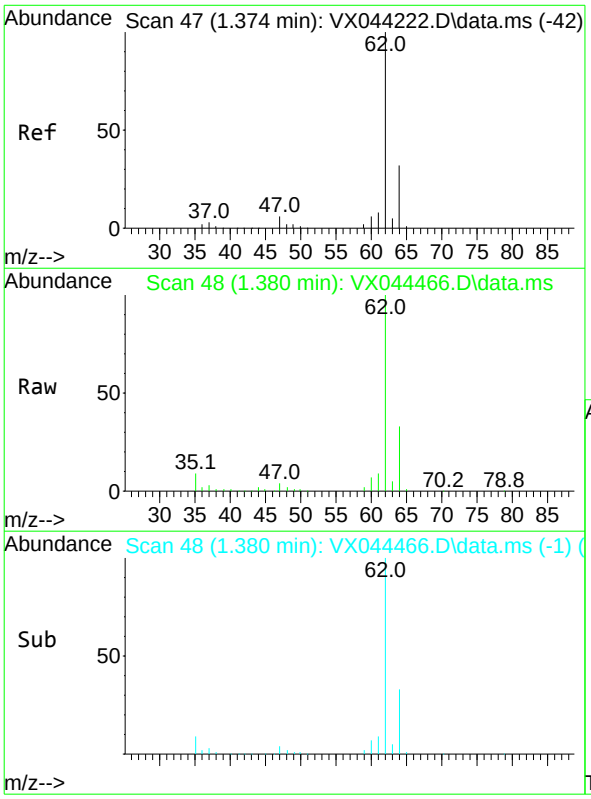
Ion	Ratio	Lower	Upper
50	100		
52	31.5	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

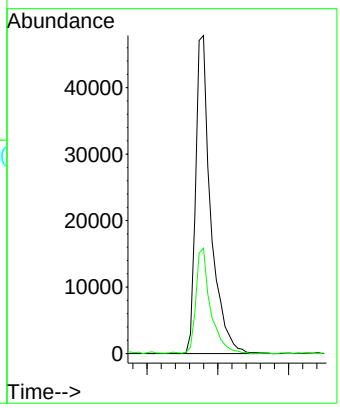
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

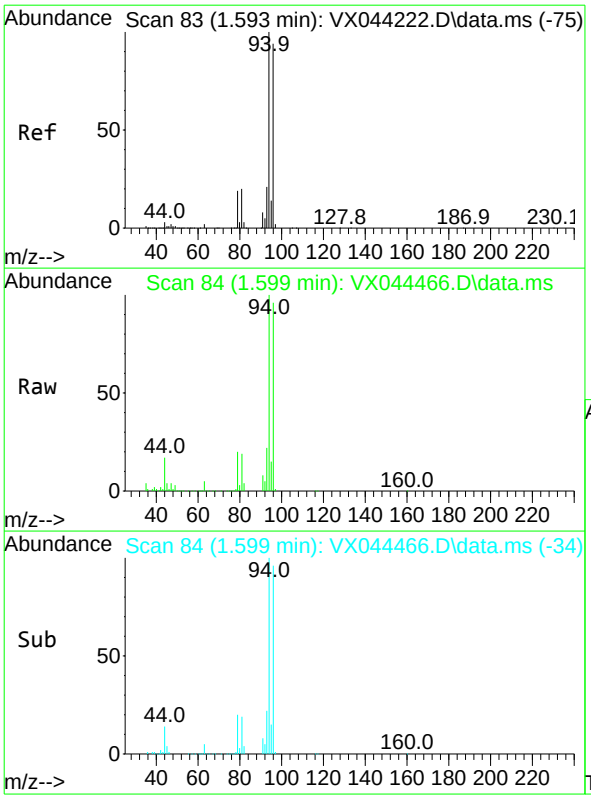


#4
Vinyl Chloride
Concen: 46.640 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 62 Resp: 70604

Ion	Ratio	Lower	Upper
62	100		
64	33.2	25.7	38.5

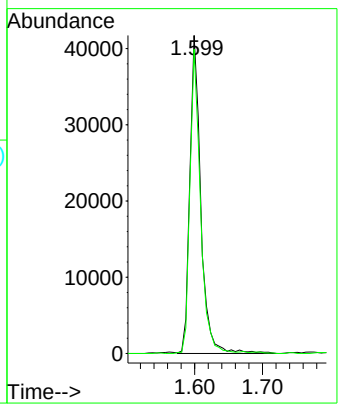




#5
Bromomethane
Concen: 43.904 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 94 Resp: 47151

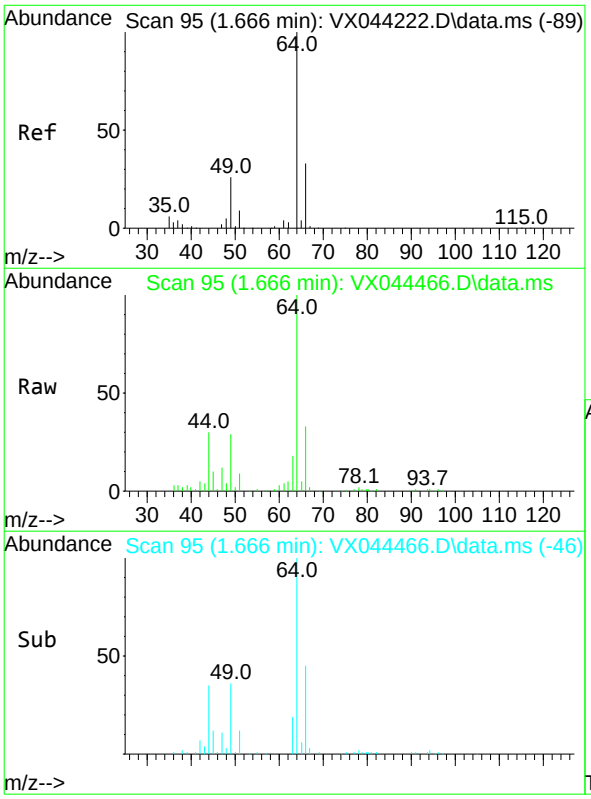
Ion	Ratio	Lower	Upper
94	100		
96	95.7	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

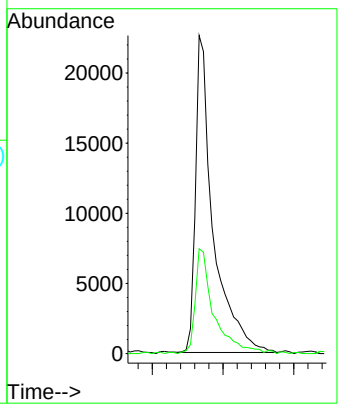
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

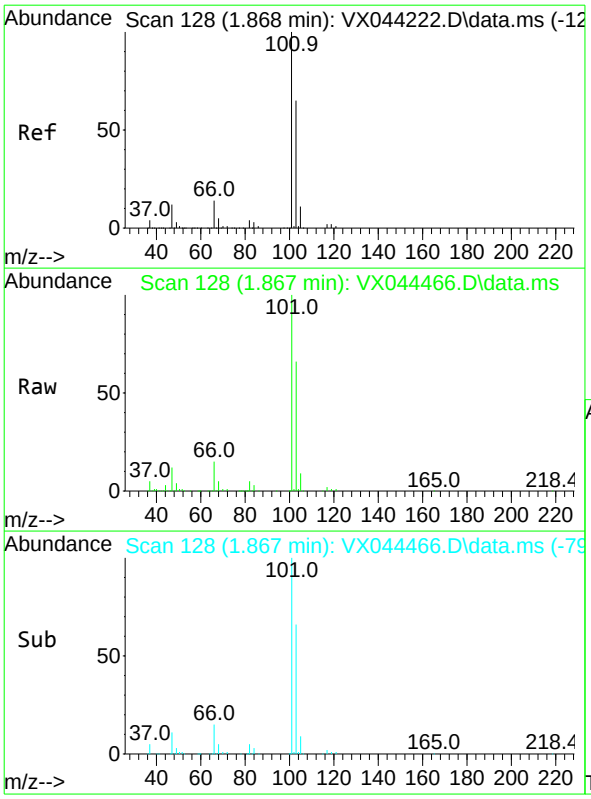


#6
Chloroethane
Concen: 41.487 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 64 Resp: 39107

Ion	Ratio	Lower	Upper
64	100		
66	33.1	26.6	39.8

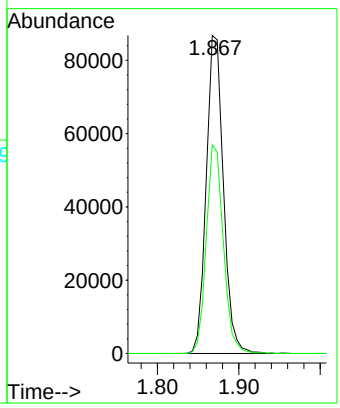




#7
Trichlorofluoromethane
Concen: 42.875 ug/l
RT: 1.867 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:101 Resp: 127064

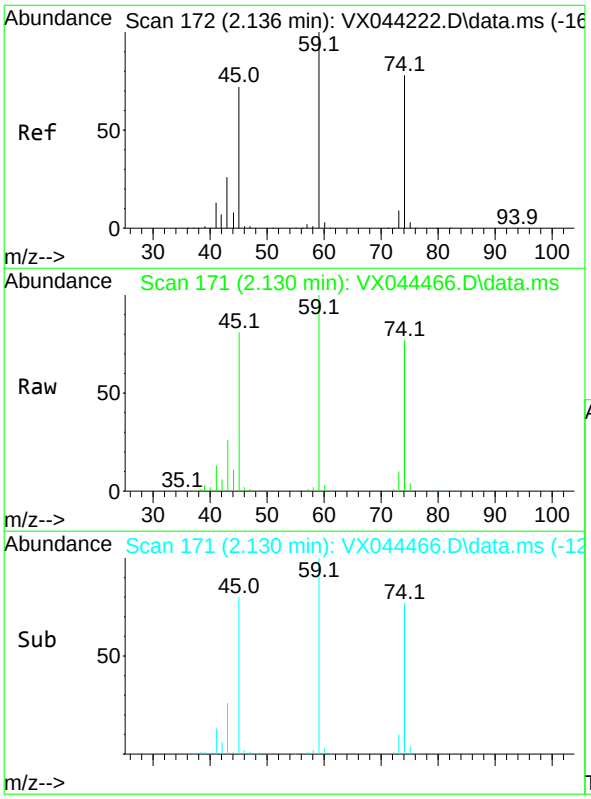
Ion	Ratio	Lower	Upper
101	100		
103	65.6	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

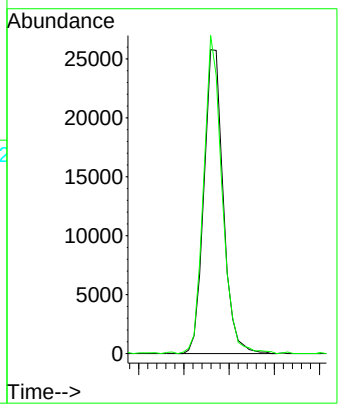
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

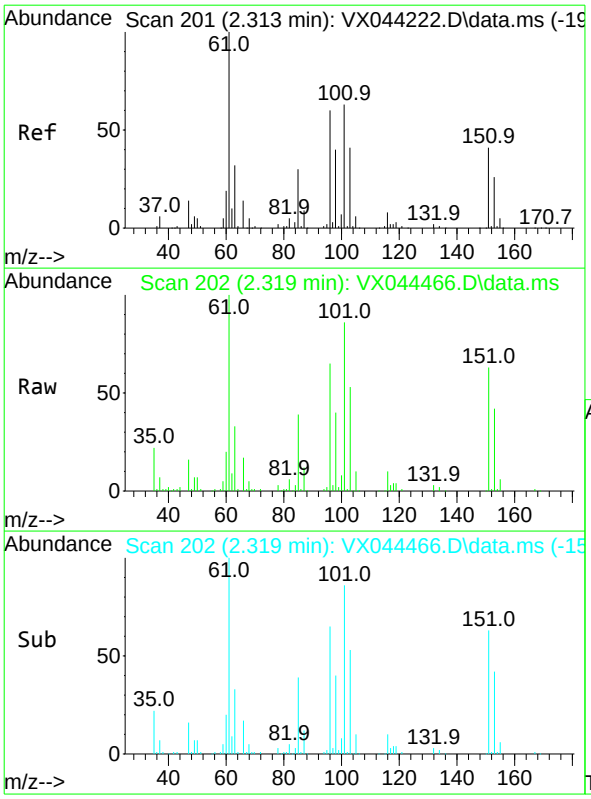


#8
Diethyl Ether
Concen: 37.795 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 74 Resp: 38233

Ion	Ratio	Lower	Upper
74	100		
45	100.4	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 54.311 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

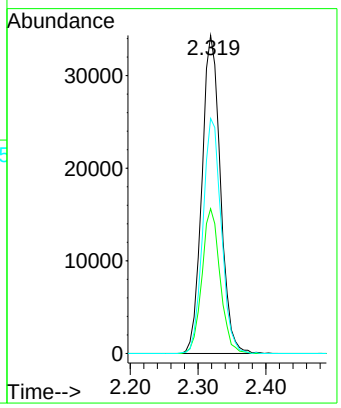
Tgt Ion:101 Resp: 65130

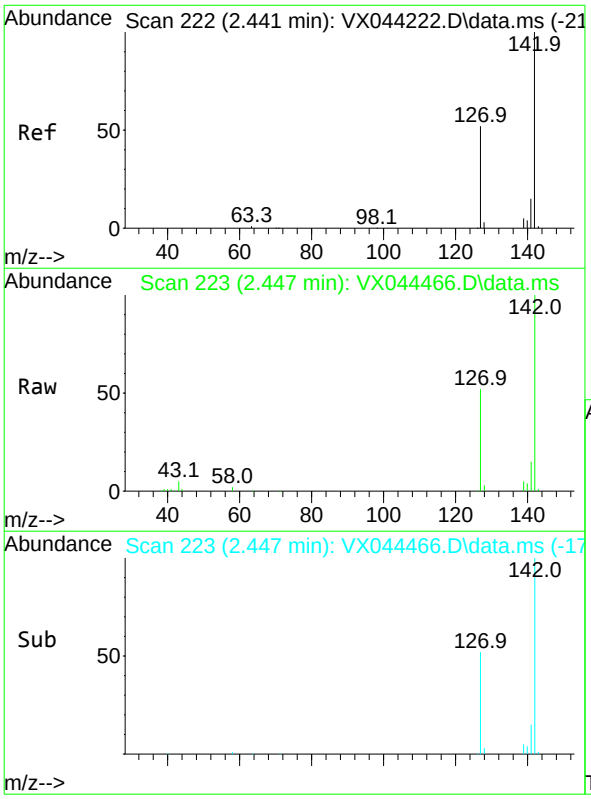
Ion	Ratio	Lower	Upper
101	100		
85	44.4	38.5	57.7
151	73.4	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

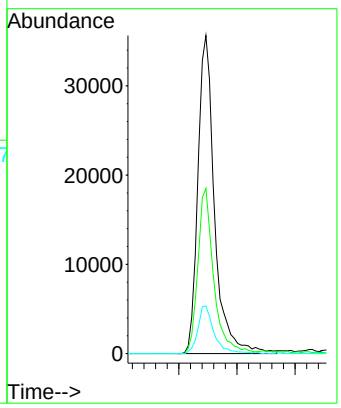


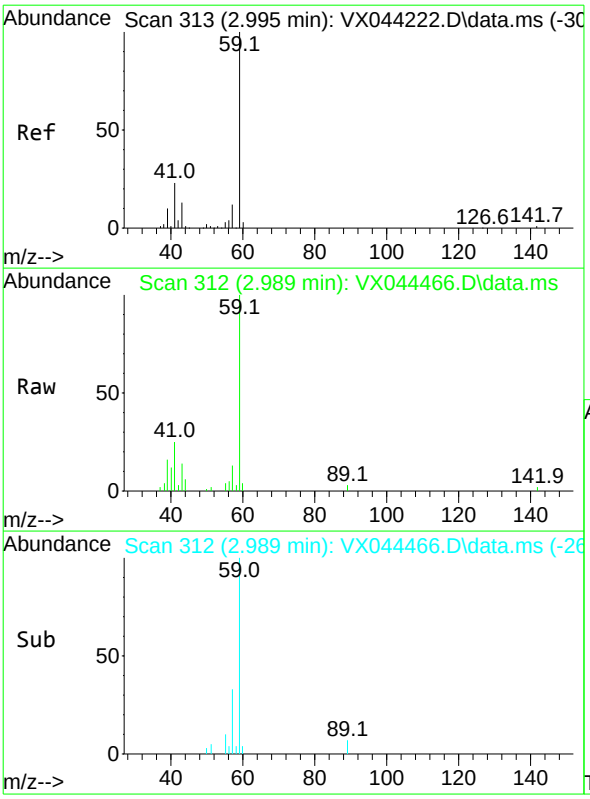


#10
Methyl Iodide
Concen: 44.919 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:142 Resp: 70995

Ion	Ratio	Lower	Upper
142	100		
127	49.4	41.8	62.8
141	14.7	11.5	17.3

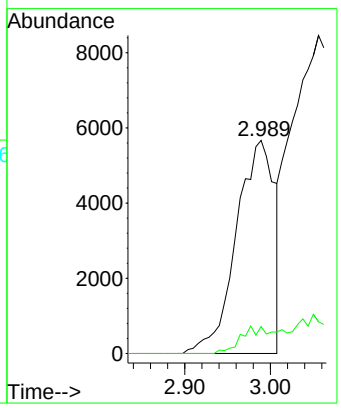




#11
Tert butyl alcohol
Concen: 72.268 ug/l
RT: 2.989 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 59 Resp: 17549

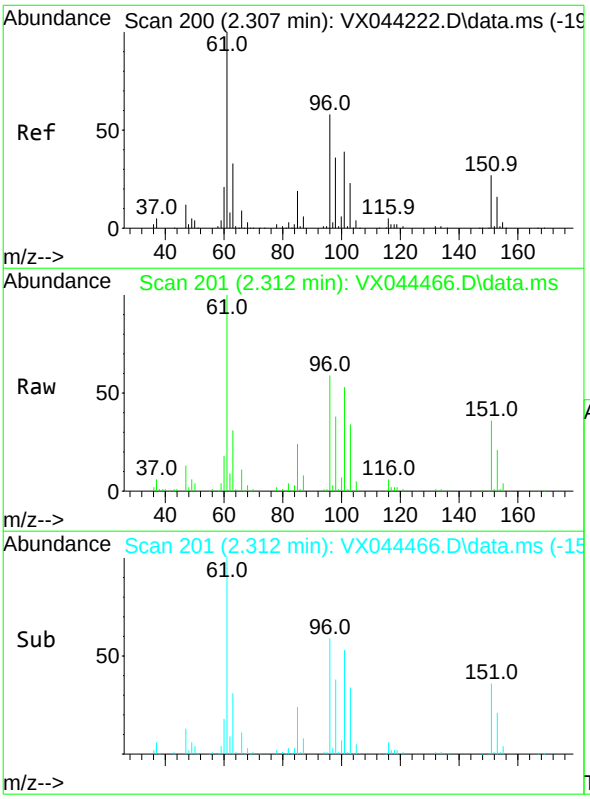
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.8	13.2#



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

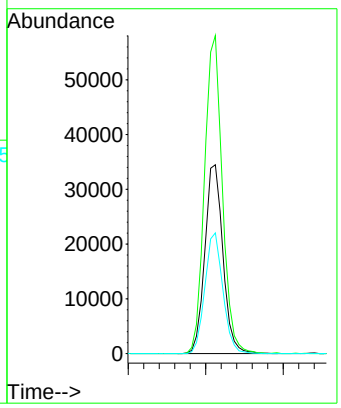
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

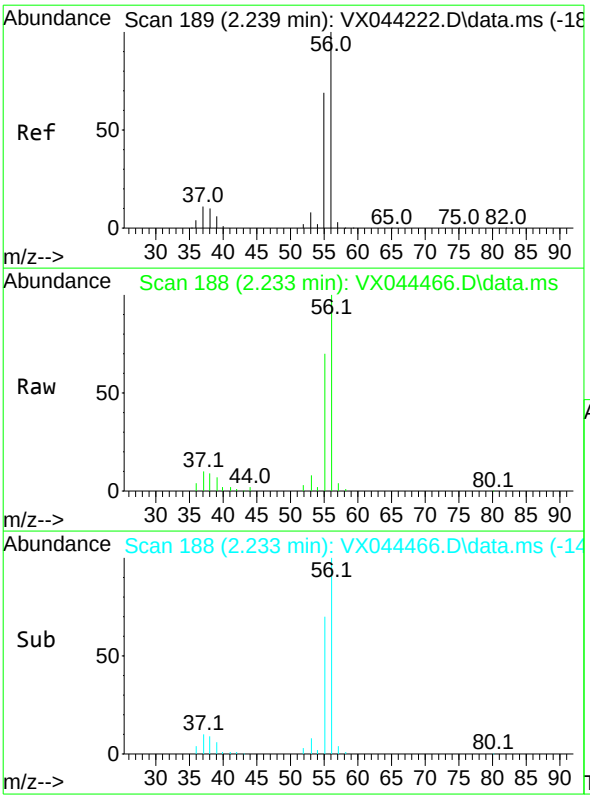


#12
1,1-Dichloroethene
Concen: 50.798 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 96 Resp: 55954

Ion	Ratio	Lower	Upper
96	100		
61	168.4	138.0	207.0
98	63.9	50.0	75.0

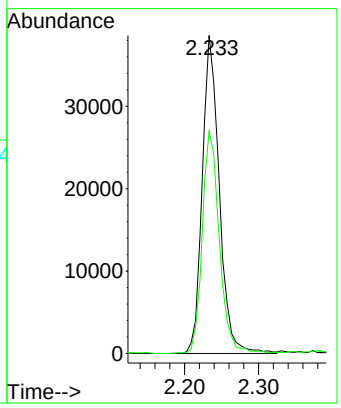




#13
Acrolein
Concen: 175.615 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 56 Resp: 61730

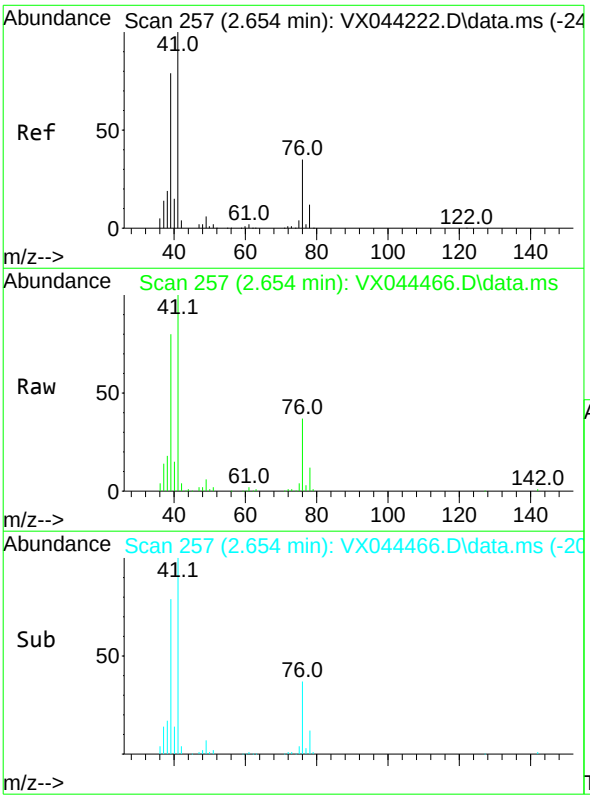
Ion	Ratio	Lower	Upper
56	100		
55	70.5	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

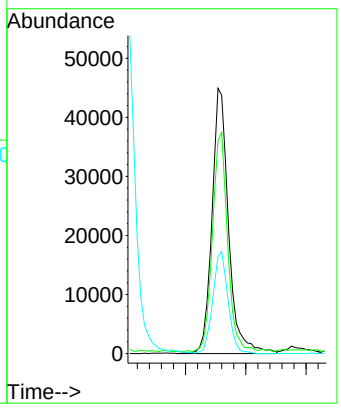
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

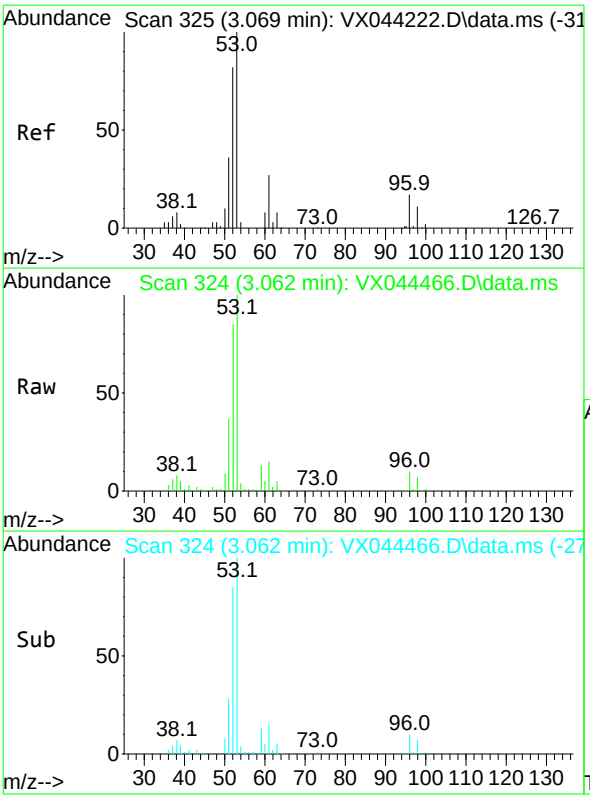


#14
Allyl chloride
Concen: 46.857 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 41 Resp: 85968

Ion	Ratio	Lower	Upper
41	100		
39	75.3	61.9	92.9
76	35.2	27.4	41.2

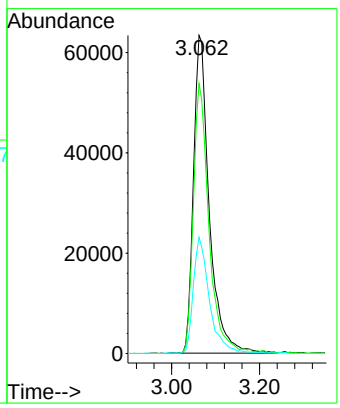




#15
Acrylonitrile
Concen: 234.398 ug/l
RT: 3.062 min Scan# 32
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 53 Resp: 157669

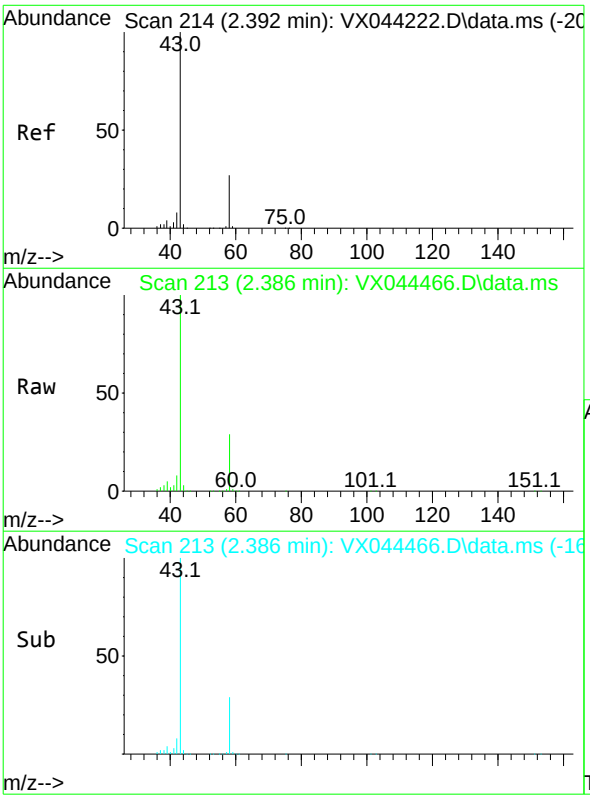
Ion	Ratio	Lower	Upper
53	100		
52	83.9	67.4	101.0
51	36.8	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

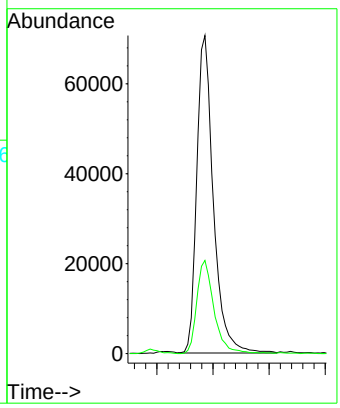
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

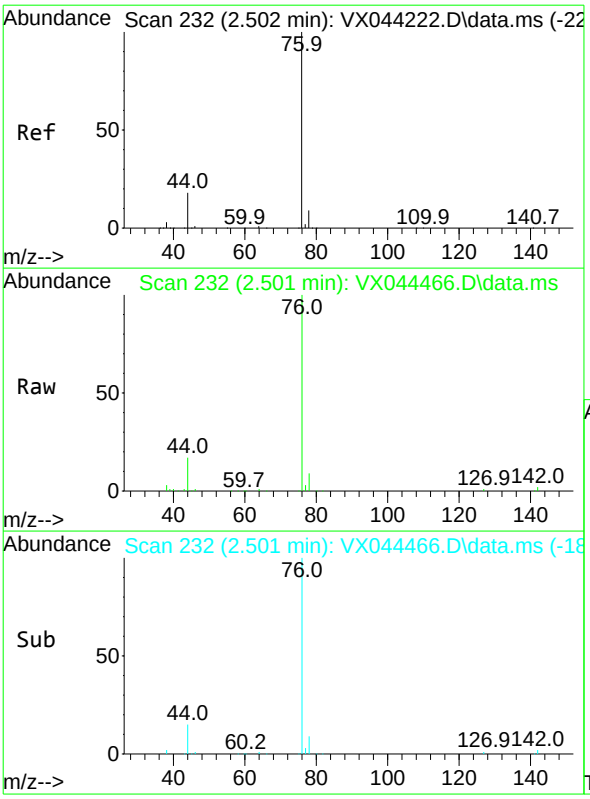


#16
Acetone
Concen: 206.174 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 43 Resp: 144825

Ion	Ratio	Lower	Upper
43	100		
58	29.3	21.6	32.4





#17
Carbon Disulfide
Concen: 46.493 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

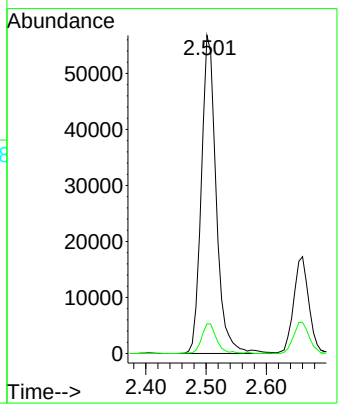
Tgt Ion: 76 Resp: 97346

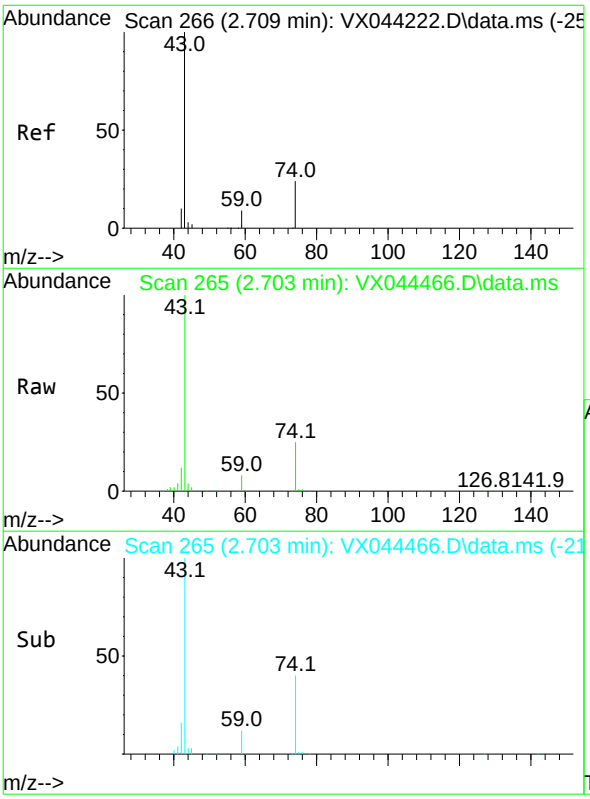
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.4	11.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

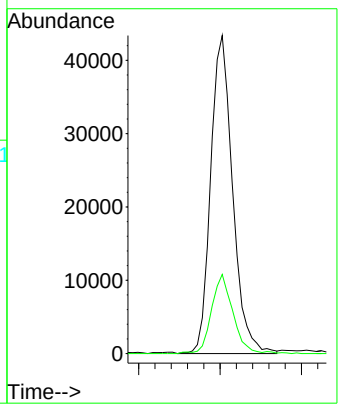


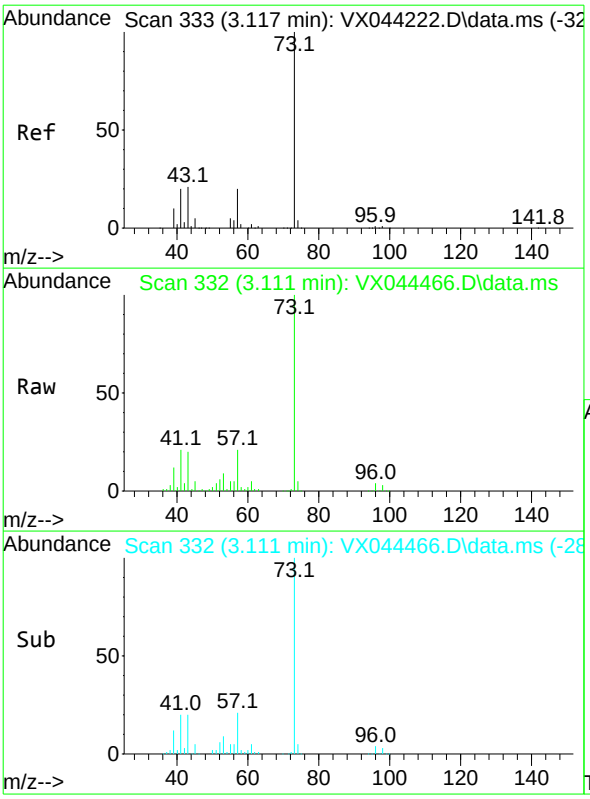


#18
Methyl Acetate
Concen: 44.867 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 43 Resp: 81261

Ion	Ratio	Lower	Upper
43	100		
74	24.4	17.7	26.5

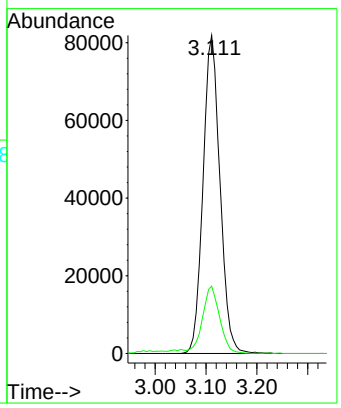




#19
Methyl tert-butyl Ether
Concen: 44.056 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 73 Resp: 189369

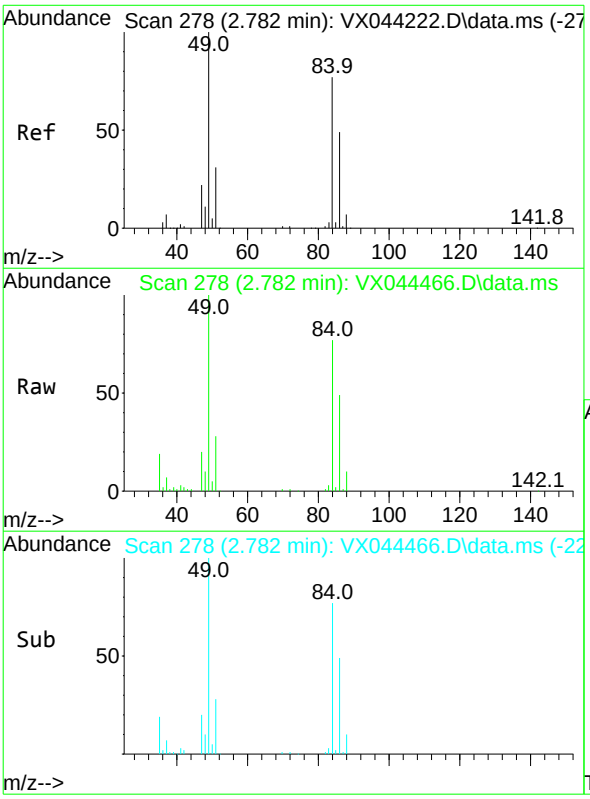
Ion	Ratio	Lower	Upper
73	100		
57	21.1	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

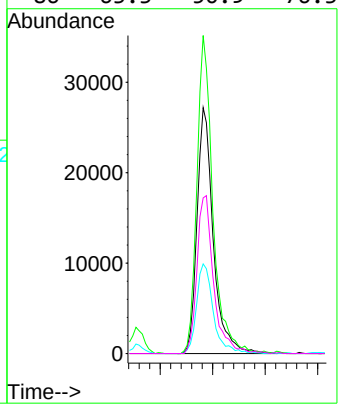
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

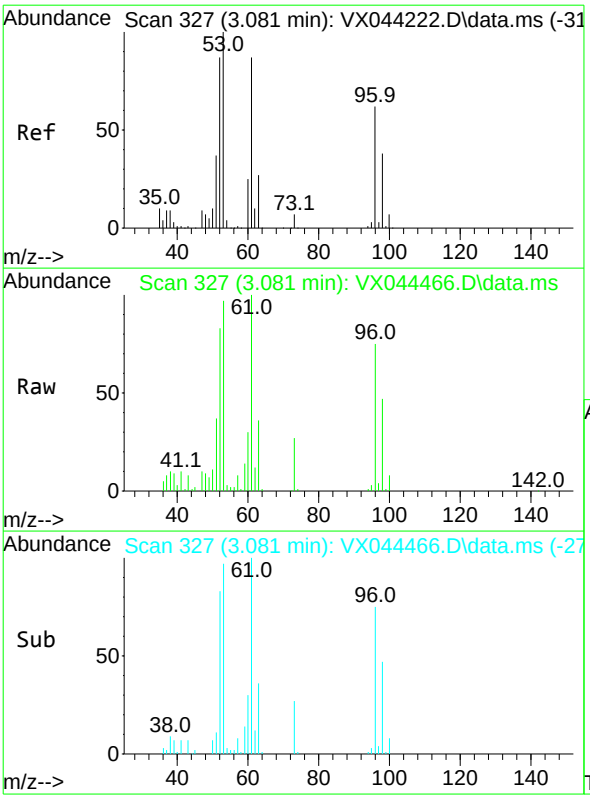


#20
Methylene Chloride
Concen: 44.299 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 84 Resp: 58446

Ion	Ratio	Lower	Upper
84	100		
49	129.3	104.2	156.4
51	36.5	32.2	48.4
86	63.3	50.9	76.3

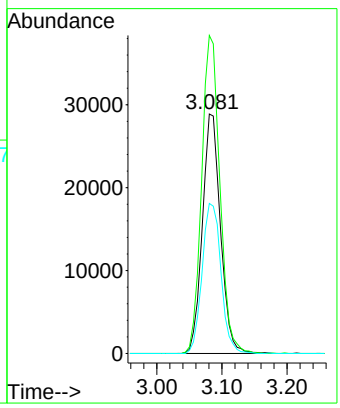




#21
trans-1,2-Dichloroethene
Concen: 47.727 ug/l
RT: 3.081 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 96 Resp: 55872

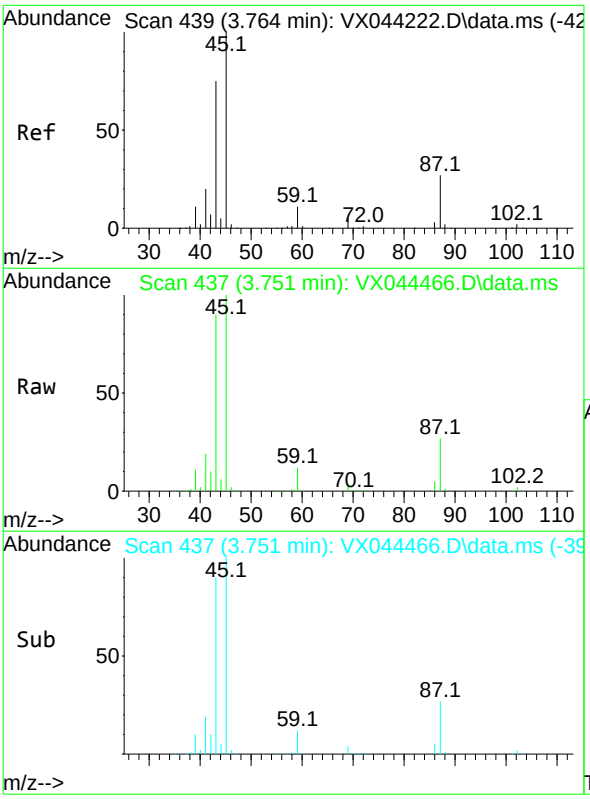
Ion	Ratio	Lower	Upper
96	100		
61	132.8	112.0	168.0
98	62.7	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

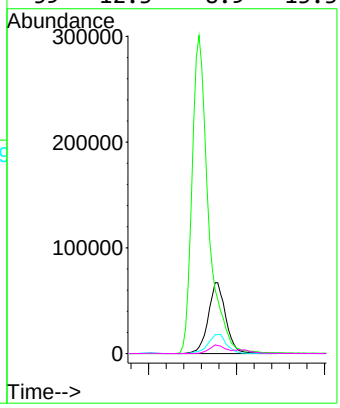
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

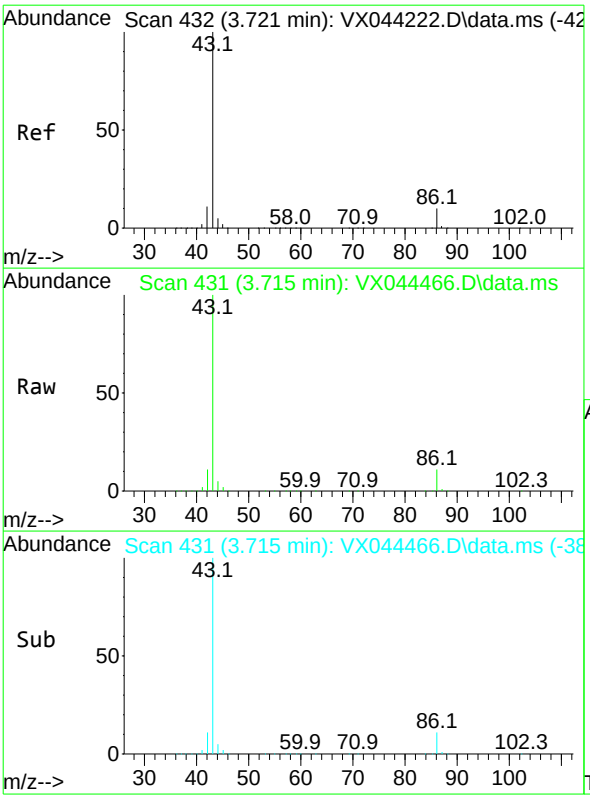


#22
Diisopropyl ether
Concen: 44.904 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.012 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 45 Resp: 185514

Ion	Ratio	Lower	Upper
45	100		
43	89.8	60.2	90.2
87	26.8	21.2	31.8
59	12.3	8.9	13.3

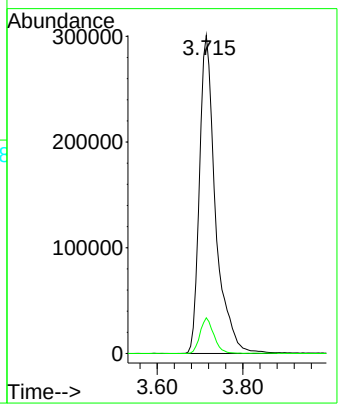




#23
Vinyl Acetate
Concen: 233.215 ug/l
RT: 3.715 min Scan# 43
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 43 Resp: 783324

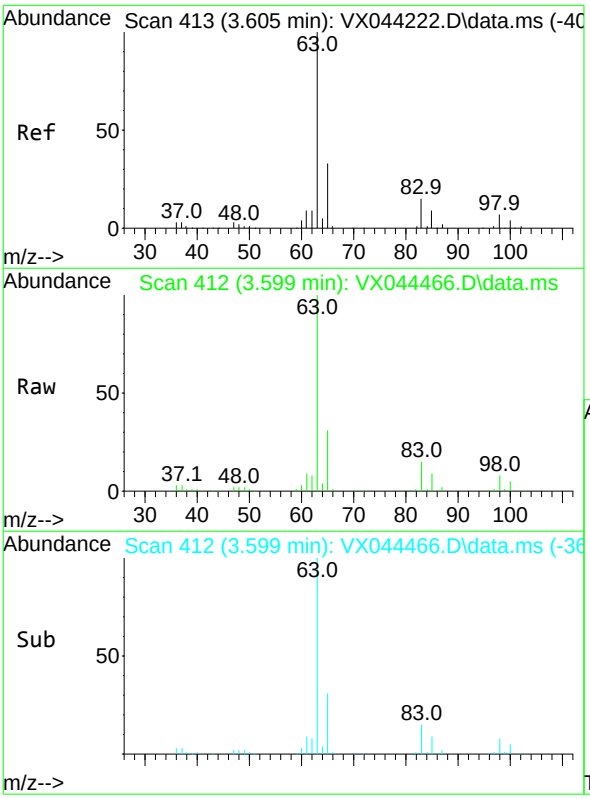
Ion	Ratio	Lower	Upper
43	100		
86	11.2	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

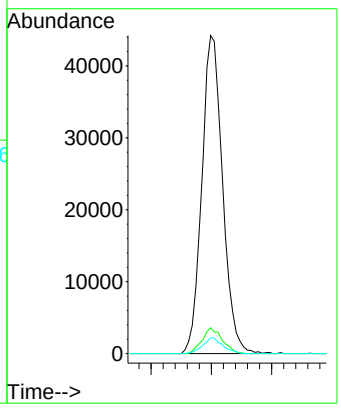
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

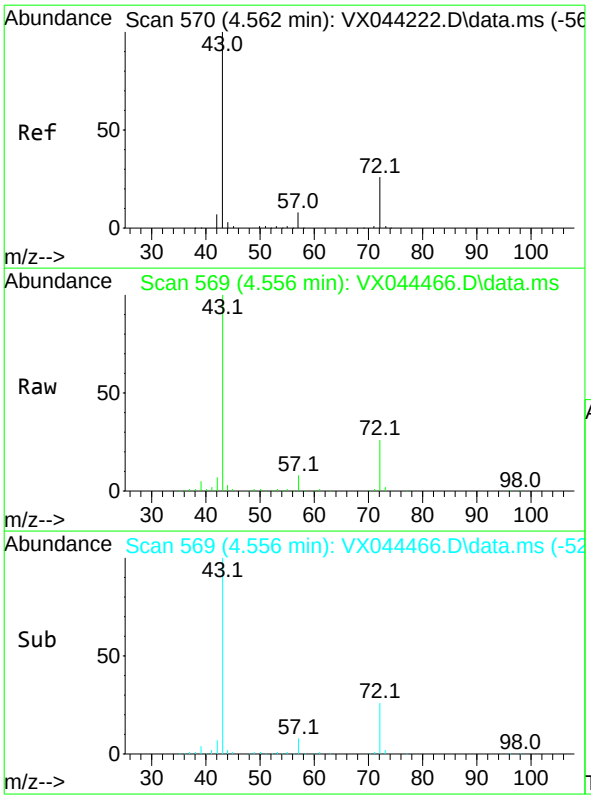


#24
1,1-Dichloroethane
Concen: 46.032 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 63 Resp: 106007

Ion	Ratio	Lower	Upper
63	100		
98	8.1	3.6	10.8
100	4.9	2.1	6.3

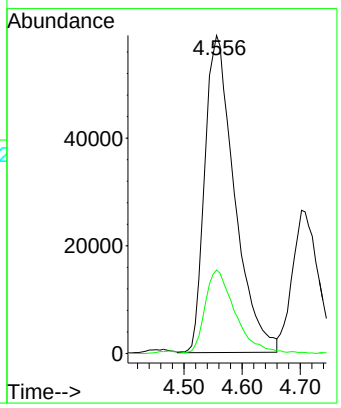




#25
2-Butanone
Concen: 209.482 ug/l
RT: 4.556 min Scan# 56
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 43 Resp: 209192

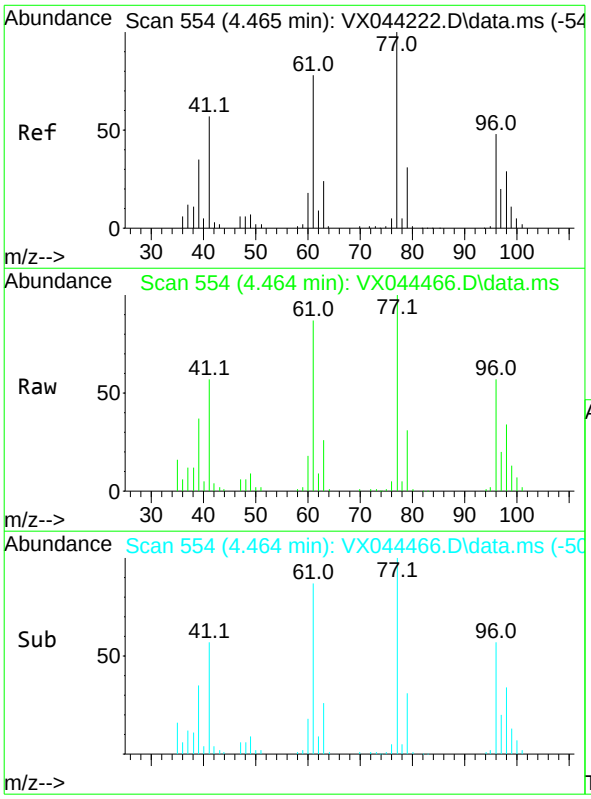
Ion	Ratio	Lower	Upper
43	100		
72	25.8	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

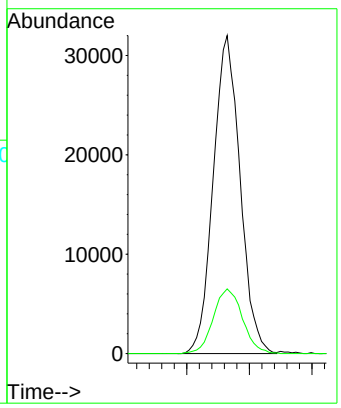
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

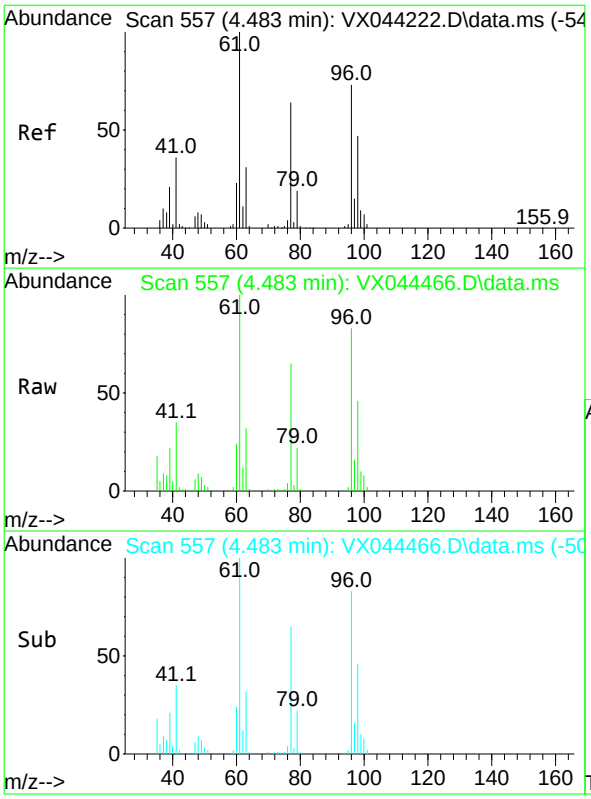


#26
2,2-Dichloropropane
Concen: 50.896 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 77 Resp: 95219

Ion	Ratio	Lower	Upper
77	100		
97	22.1	10.7	32.1

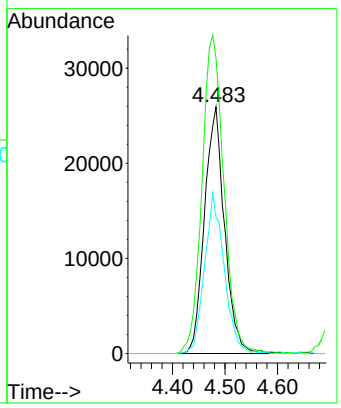




#27
cis-1,2-Dichloroethene
Concen: 46.309 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 96 Resp: 68850

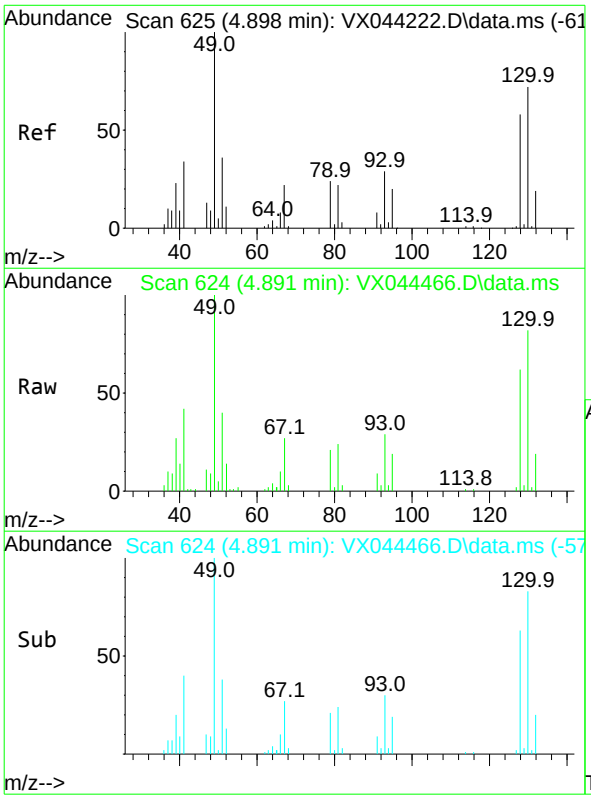
Ion	Ratio	Lower	Upper
96	100		
61	141.1	0.0	299.0
98	63.7	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

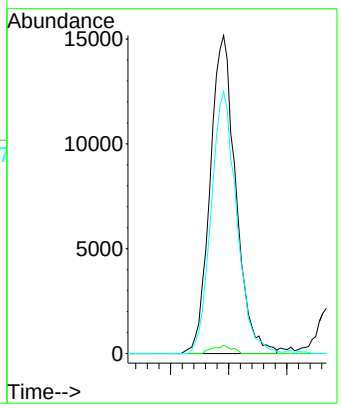
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

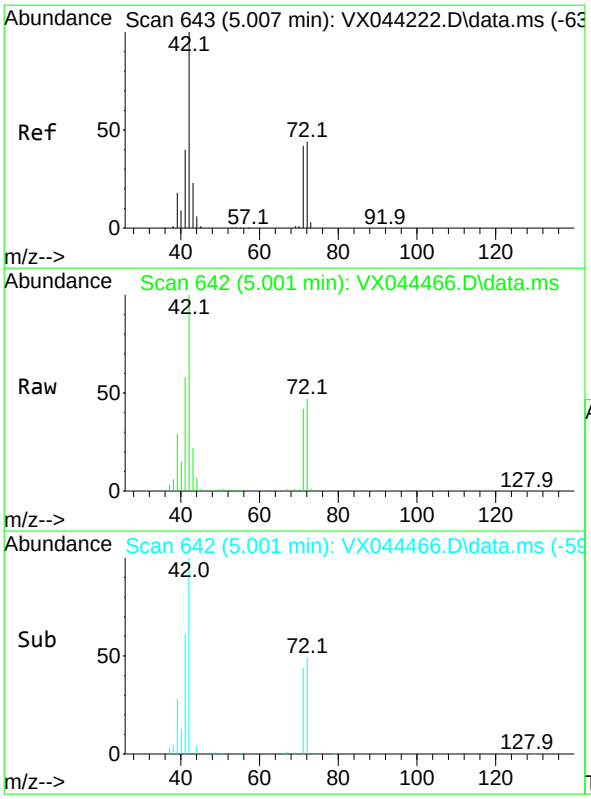


#28
Bromochloromethane
Concen: 41.140 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 49 Resp: 46458

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	82.1	62.1	93.1

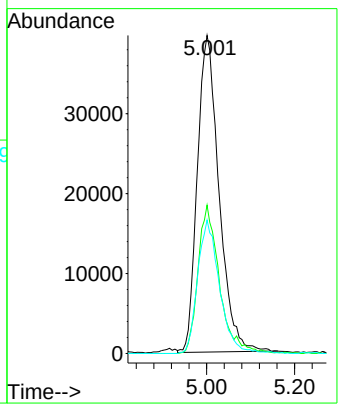




#29
Tetrahydrofuran
Concen: 211.723 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 42 Resp: 135710

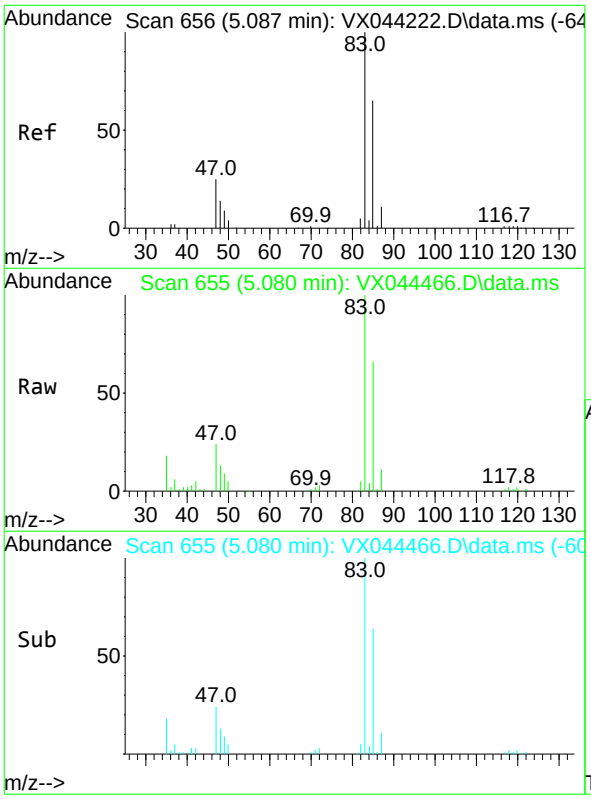
Ion	Ratio	Lower	Upper
42	100		
72	46.3	37.0	55.6
71	42.3	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

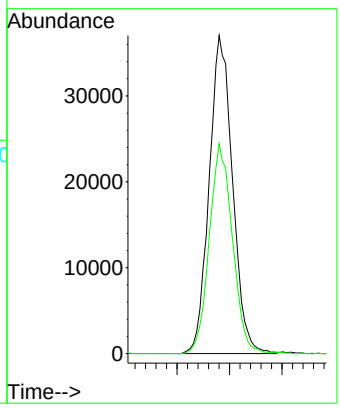
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

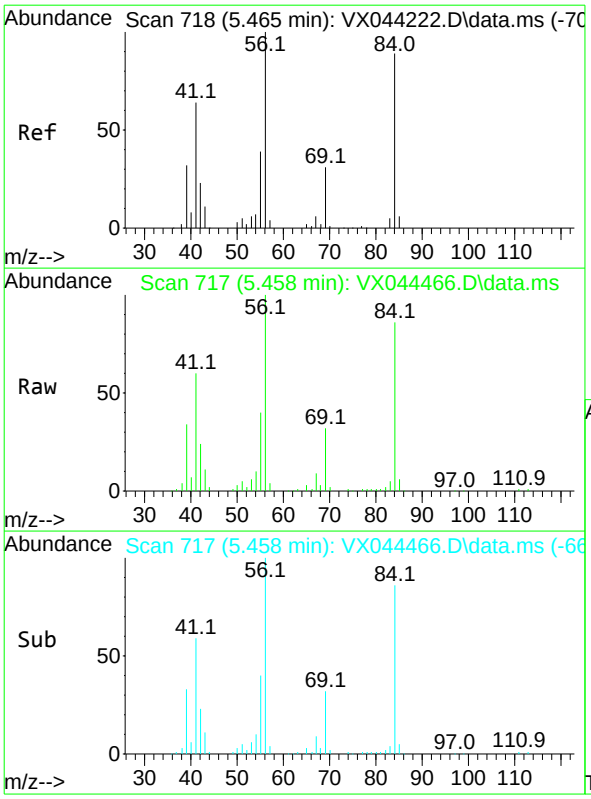


#30
Chloroform
Concen: 44.231 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 83 Resp: 114443

Ion	Ratio	Lower	Upper
83	100		
85	66.0	51.6	77.4





#31
Cyclohexane
Concen: 50.934 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

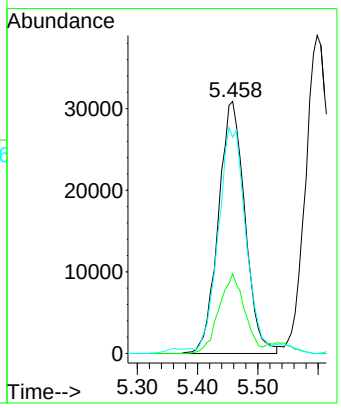
Tgt Ion: 56 Resp: 94719

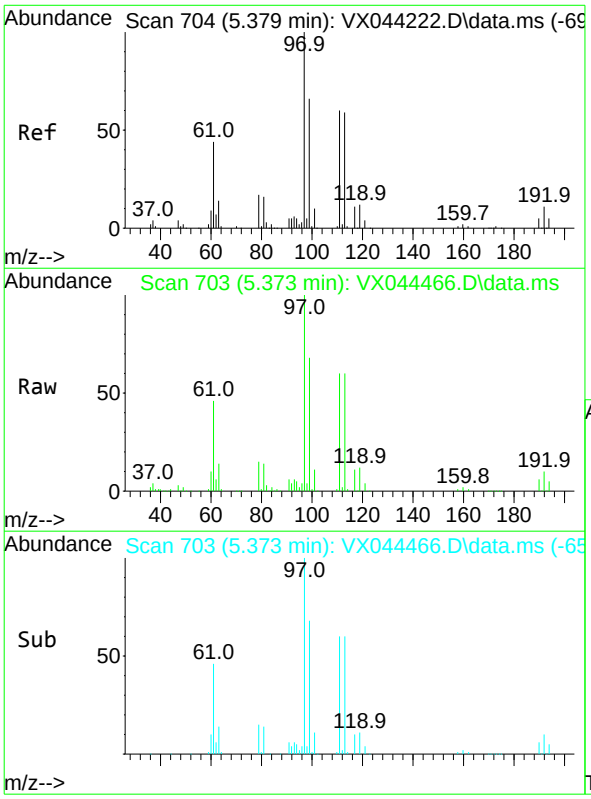
Ion	Ratio	Lower	Upper
56	100		
69	31.7	24.7	37.1
84	84.1	71.0	106.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

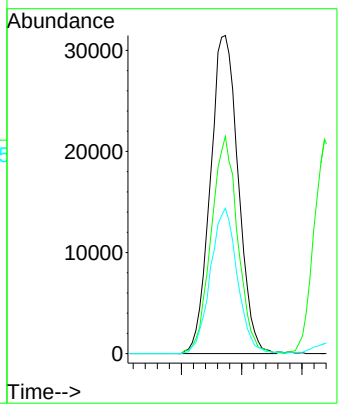


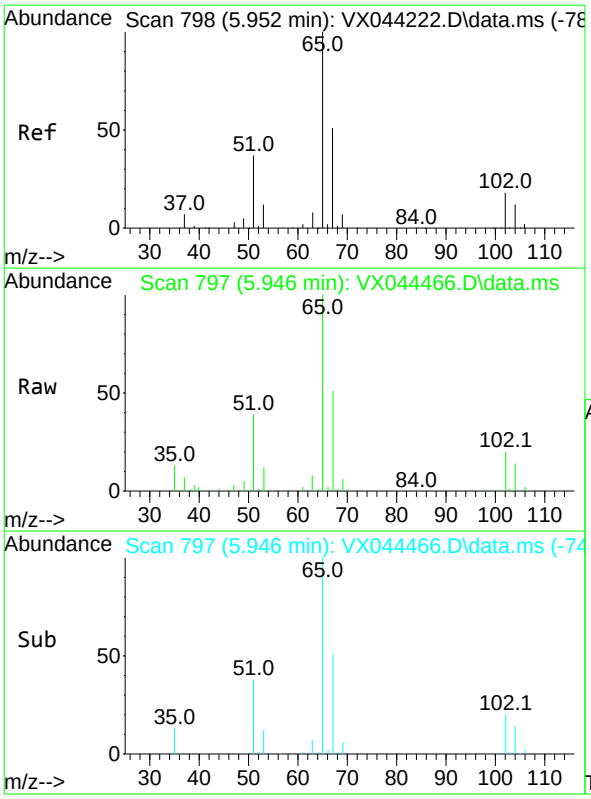


#32
1,1,1-Trichloroethane
Concen: 47.248 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 97 Resp: 101477

Ion	Ratio	Lower	Upper
97	100		
99	64.8	50.8	76.2
61	44.1	35.2	52.8

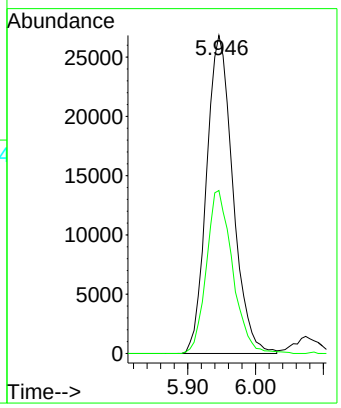




#33
1,2-Dichloroethane-d4
Concen: 41.918 ug/l
RT: 5.946 min Scan# 79
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 65 Resp: 72225

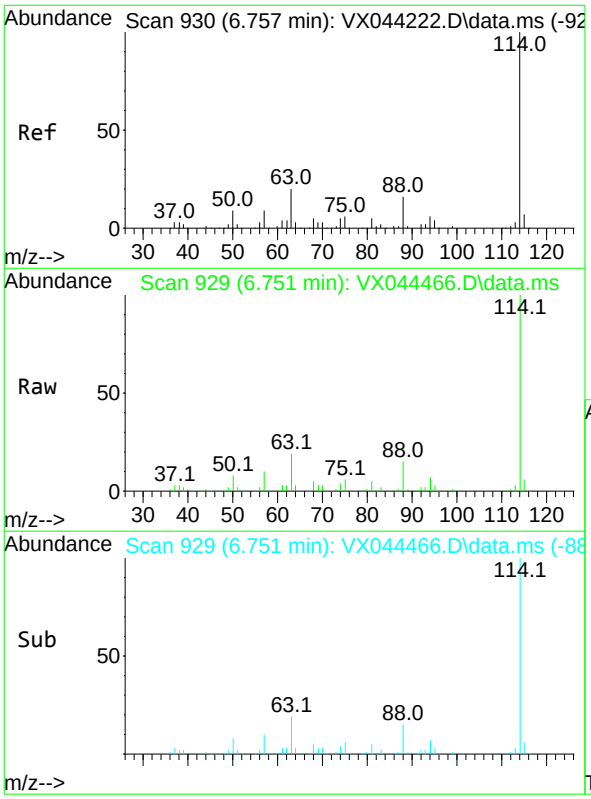
Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

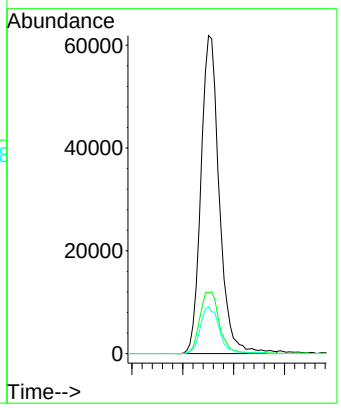
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

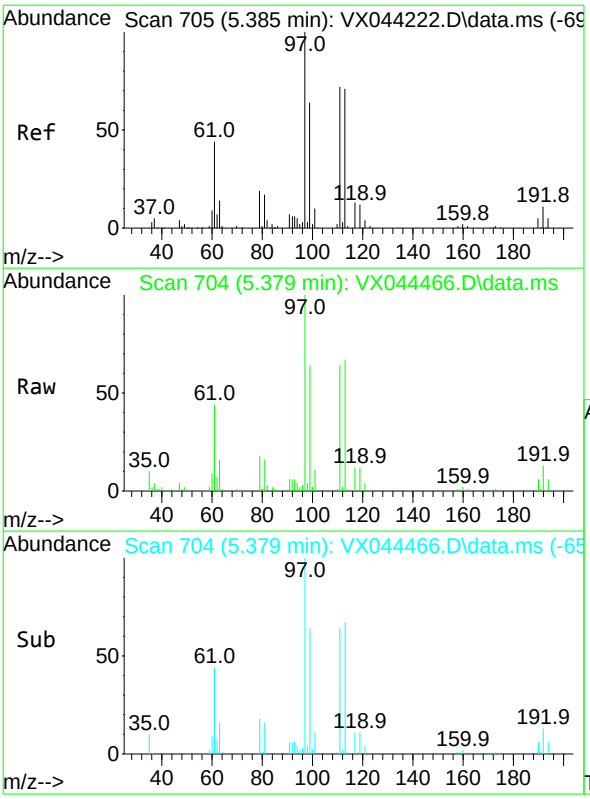


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:114 Resp: 155098

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	40.6
88	14.7	0.0	31.8





#35
Dibromofluoromethane
Concen: 53.732 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

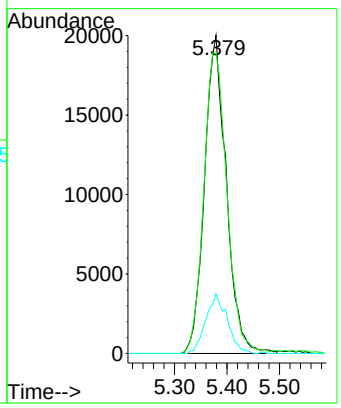
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

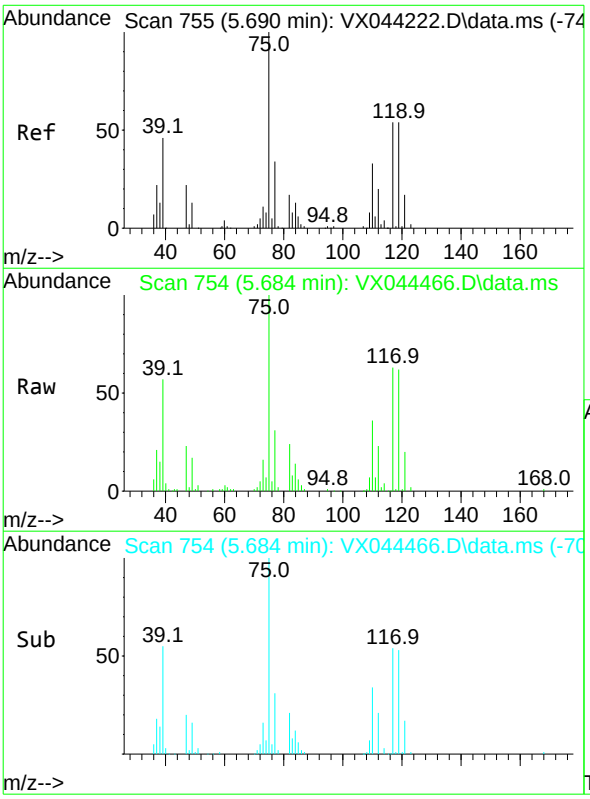
Tgt Ion:113 Resp: 57719

Ion	Ratio	Lower	Upper
113	100		
111	100.7	80.4	120.6
192	18.4	13.3	19.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

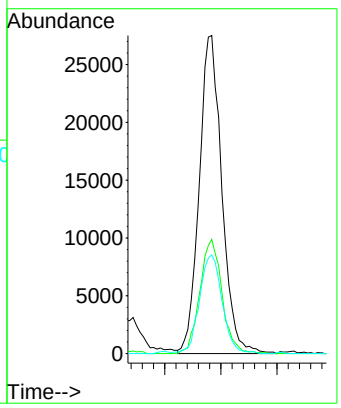


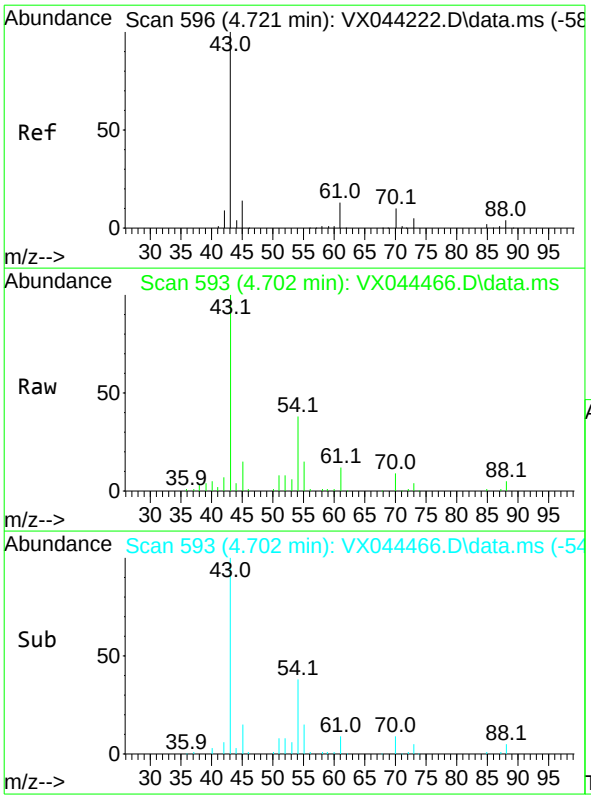


#36
1,1-Dichloropropene
Concen: 55.509 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 75 Resp: 77076

Ion	Ratio	Lower	Upper
75	100		
110	35.2	17.3	51.7
77	31.1	25.4	38.0

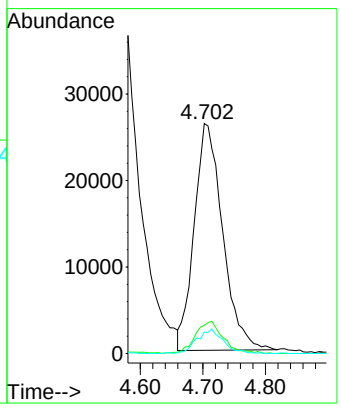




#37
Ethyl Acetate
Concen: 48.216 ug/l
RT: 4.702 min Scan# 59
Delta R.T. -0.018 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 43 Resp: 82758

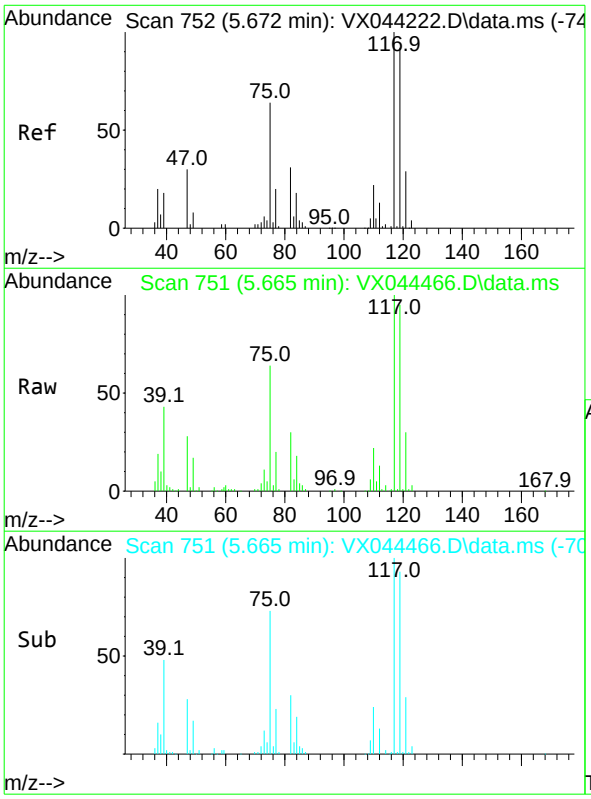
Ion	Ratio	Lower	Upper
43	100		
61	13.9	9.8	14.8
70	9.9	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

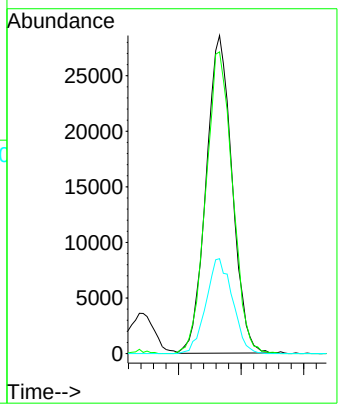
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

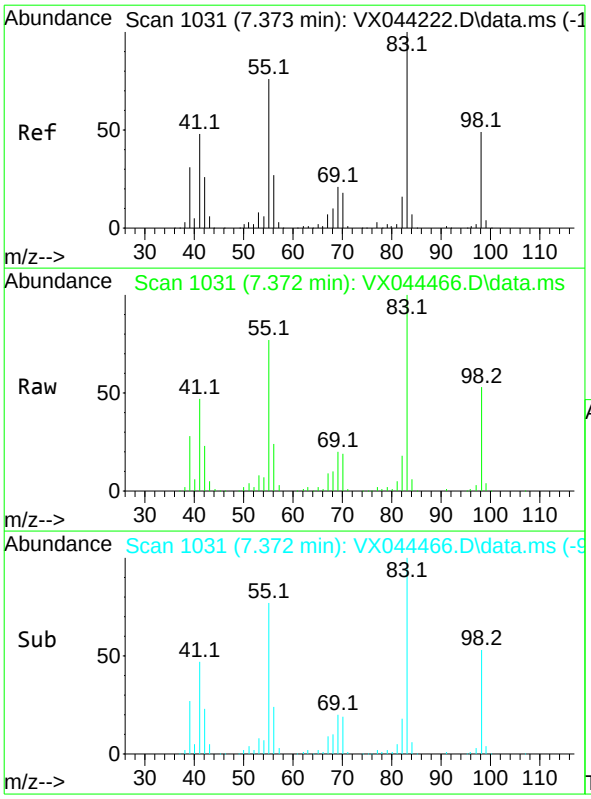


#38
Carbon Tetrachloride
Concen: 55.181 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:117 Resp: 82491

Ion	Ratio	Lower	Upper
117	100		
119	94.8	74.2	111.4
121	29.9	23.0	34.6

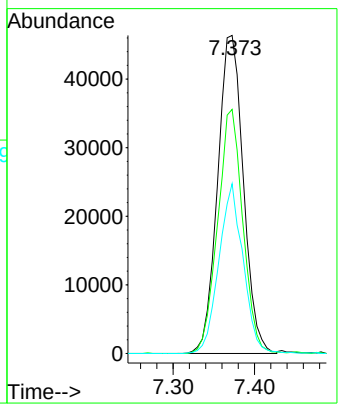




#39
Methylcyclohexane
Concen: 61.418 ug/l
RT: 7.372 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 83 Resp: 101951

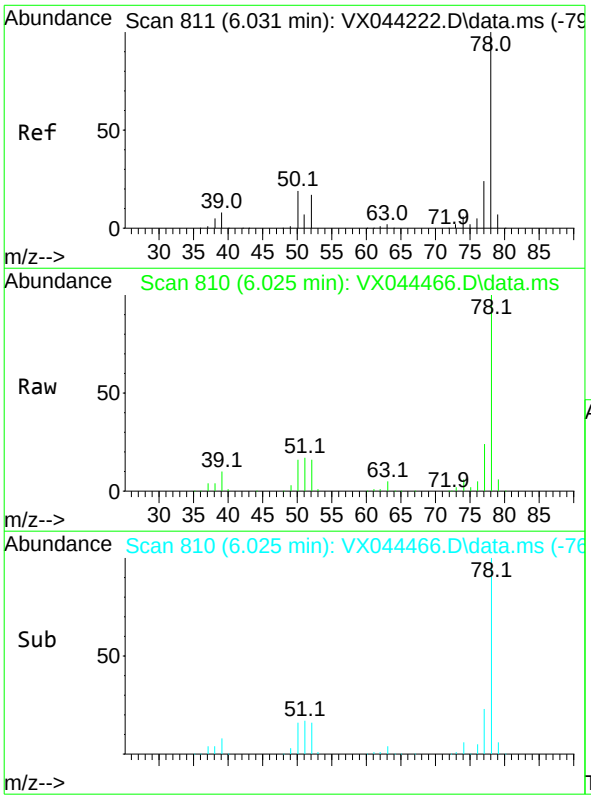
Ion	Ratio	Lower	Upper
83	100		
55	76.8	60.7	91.1
98	53.4	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

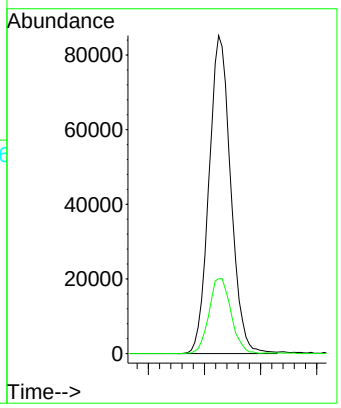
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

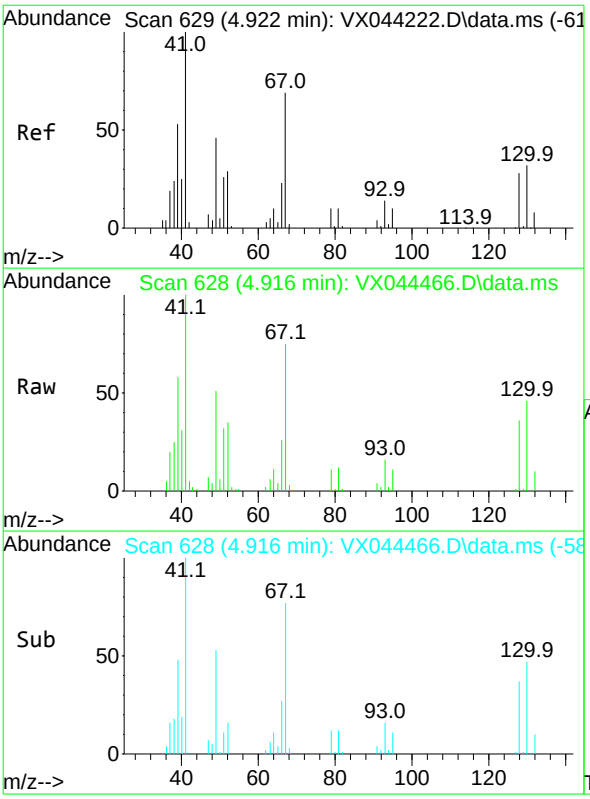


#40
Benzene
Concen: 54.397 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 78 Resp: 229329

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.3	28.9





#41
Methacrylonitrile
Concen: 47.172 ug/l
RT: 4.916 min Scan# 62
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

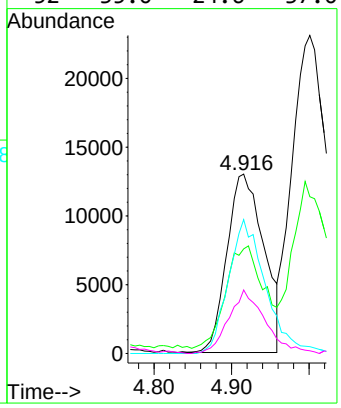
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

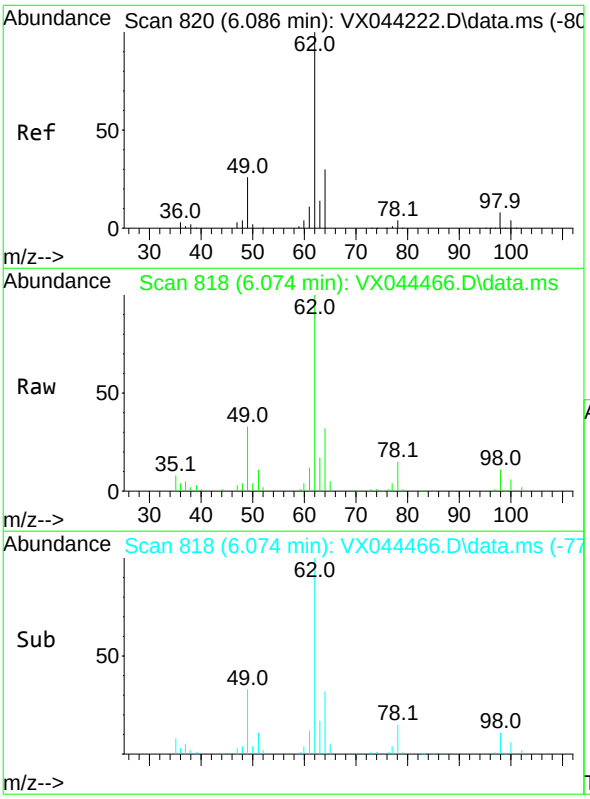
Tgt Ion: 41 Resp: 42994

Ion	Ratio	Lower	Upper
41	100		
39	59.4	44.2	66.4
67	75.7	57.2	85.8
52	35.0	24.6	37.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

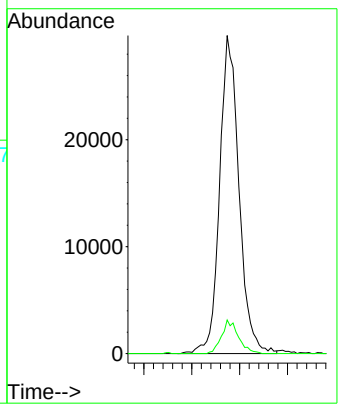


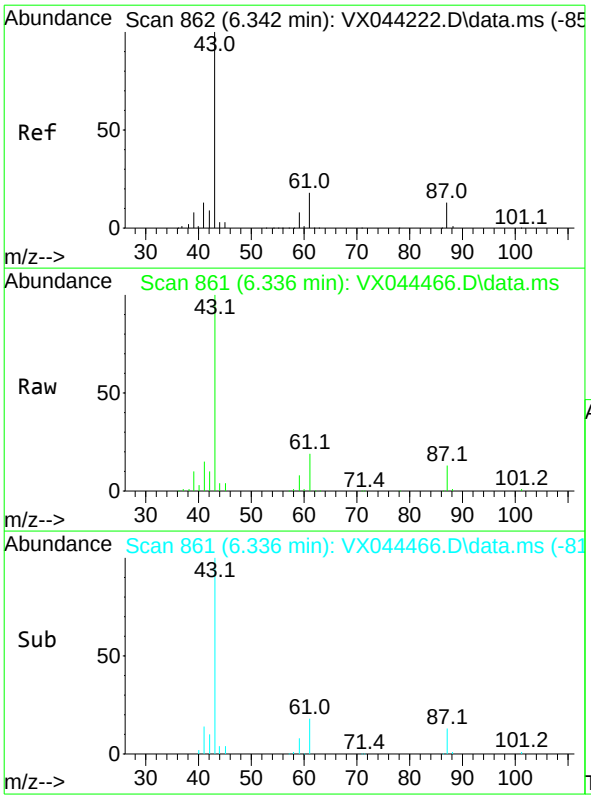


#42
1,2-Dichloroethane
Concen: 48.161 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.012 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 62 Resp: 83638

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	15.8

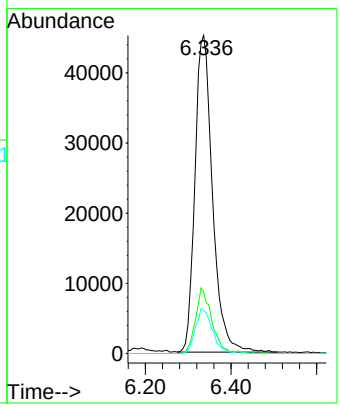




#43
Isopropyl Acetate
Concen: 47.918 ug/l
RT: 6.336 min Scan# 86
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 43 Resp: 128551

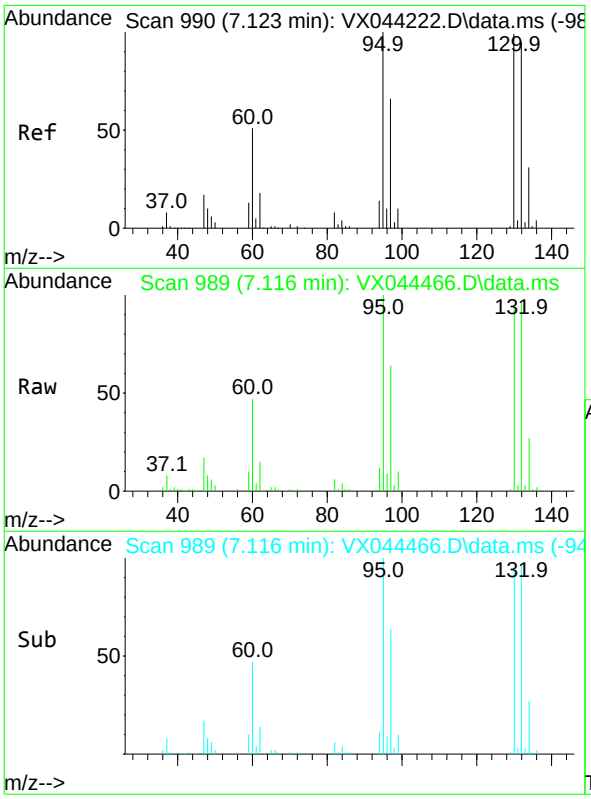
Ion	Ratio	Lower	Upper
43	100		
61	19.0	14.2	21.2
87	13.5	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

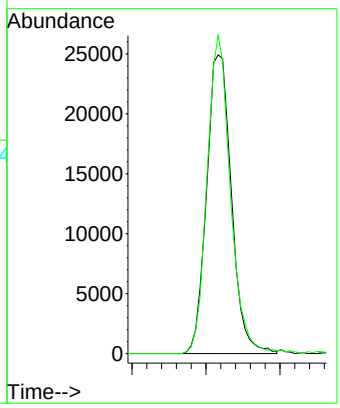
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

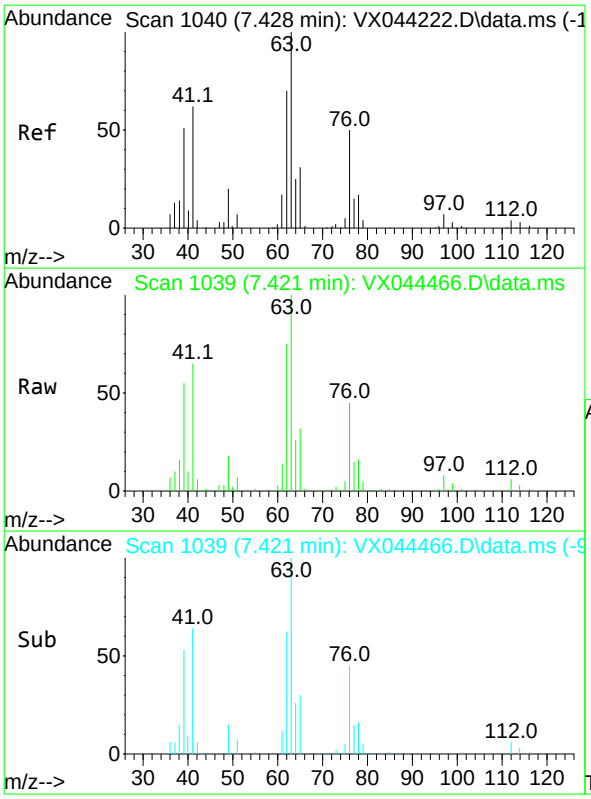


#44
Trichloroethene
Concen: 55.326 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:130 Resp: 58165

Ion	Ratio	Lower	Upper
130	100		
95	106.5	0.0	201.4





#45
1,2-Dichloropropane
Concen: 52.281 ug/l
RT: 7.421 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

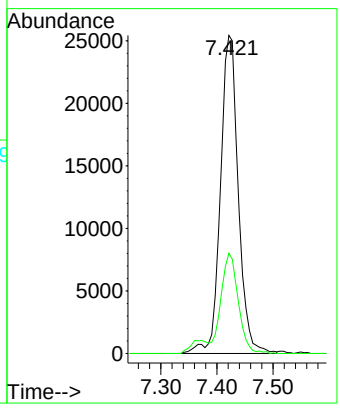
Tgt Ion: 63 Resp: 56311

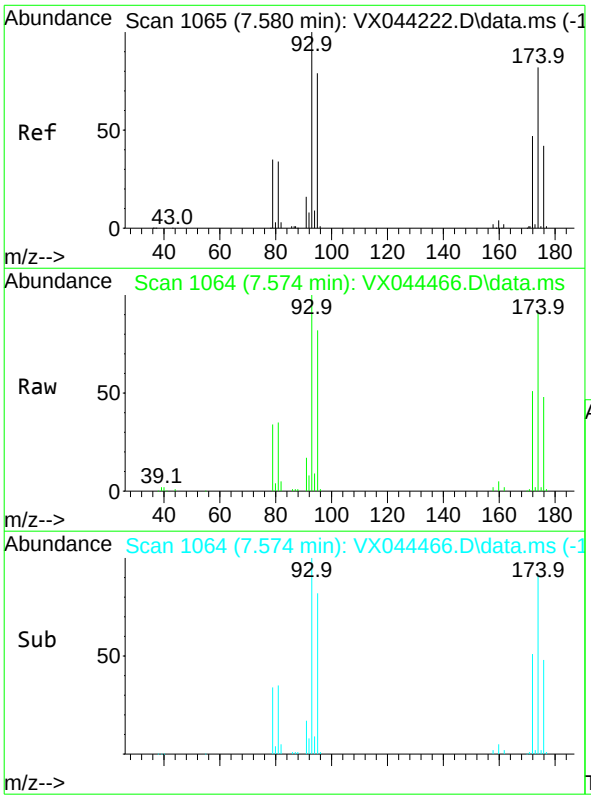
Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.6	37.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

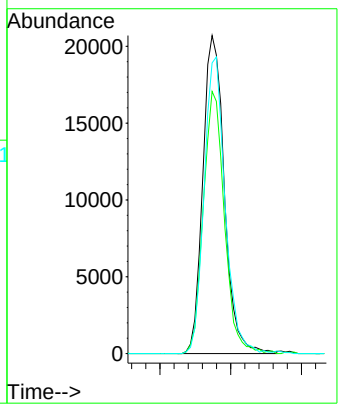


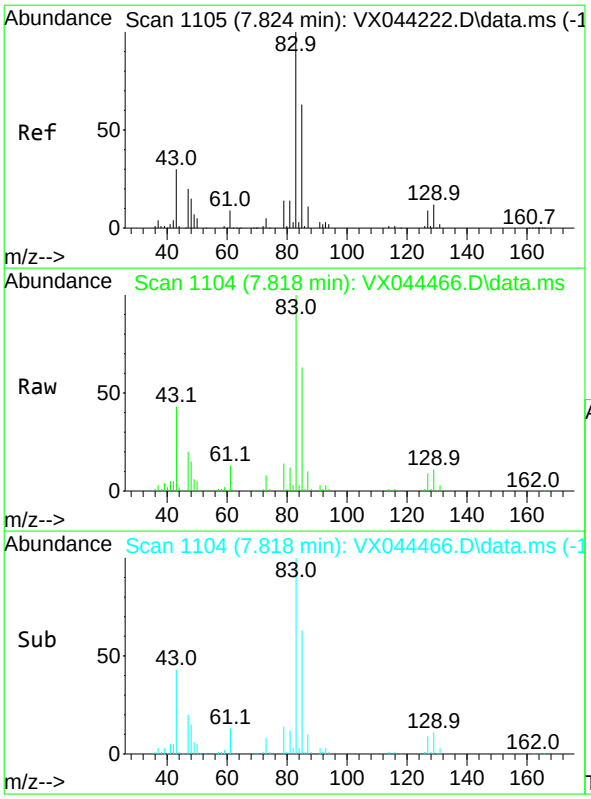


#46
Dibromomethane
Concen: 52.402 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 93 Resp: 43787

Ion	Ratio	Lower	Upper
93	100		
95	80.6	65.4	98.2
174	91.3	67.9	101.9

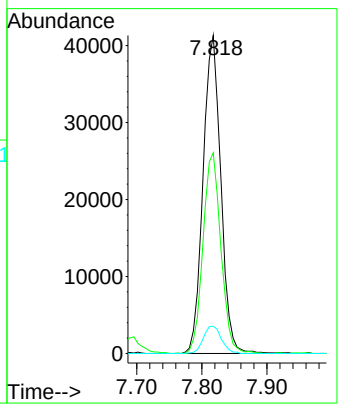




#47
Bromodichloromethane
Concen: 54.300 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 83 Resp: 78361

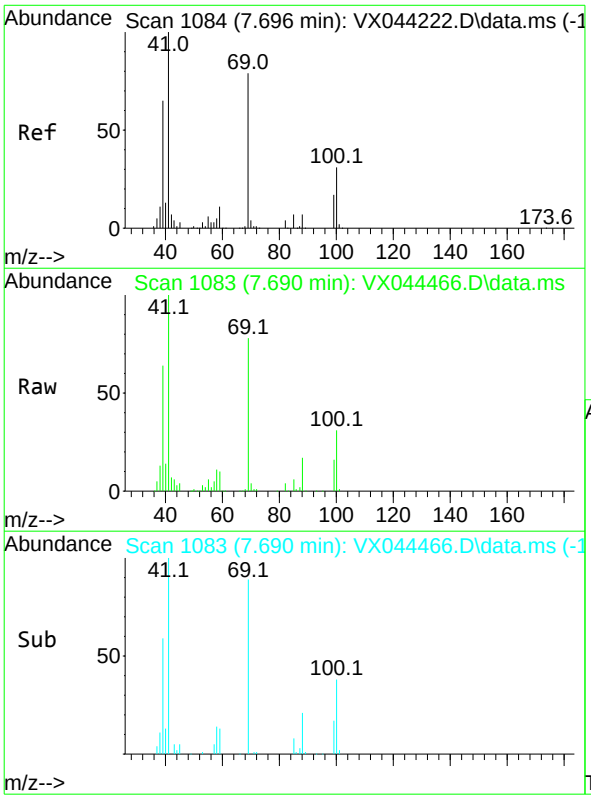
Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.6	75.8
127	8.6	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

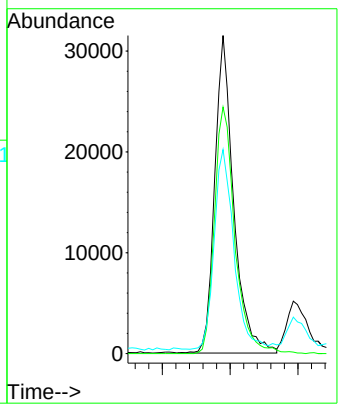
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

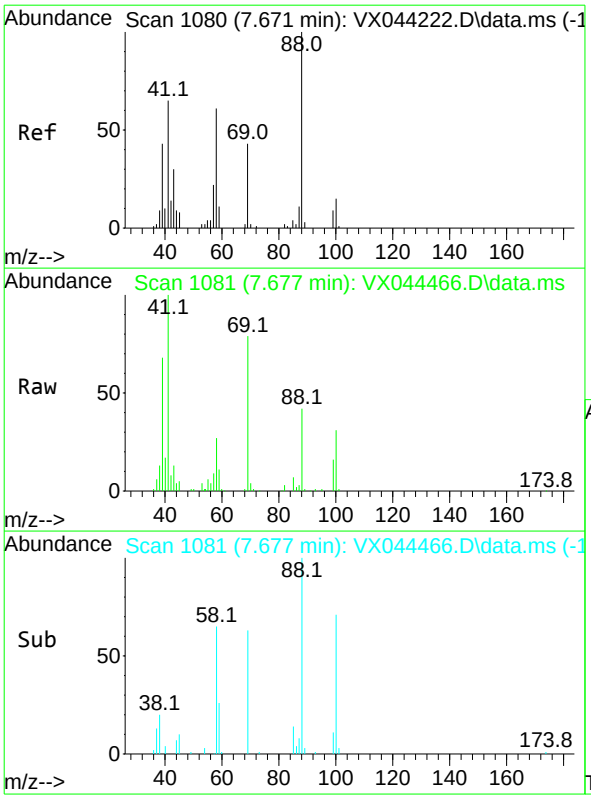


#48
Methyl methacrylate
Concen: 46.898 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 41 Resp: 61073

Ion	Ratio	Lower	Upper
41	100		
69	83.9	62.4	93.6
39	65.2	53.3	79.9

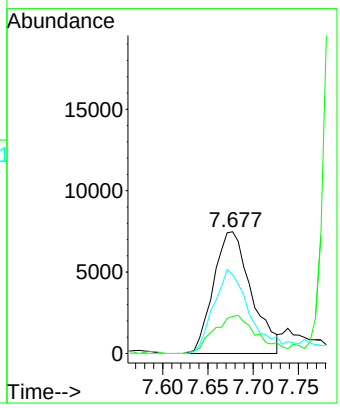




#49
1,4-Dioxane
Concen: 1005.738 ug/l
RT: 7.677 min Scan# 10
Delta R.T. 0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 88 Resp: 21715

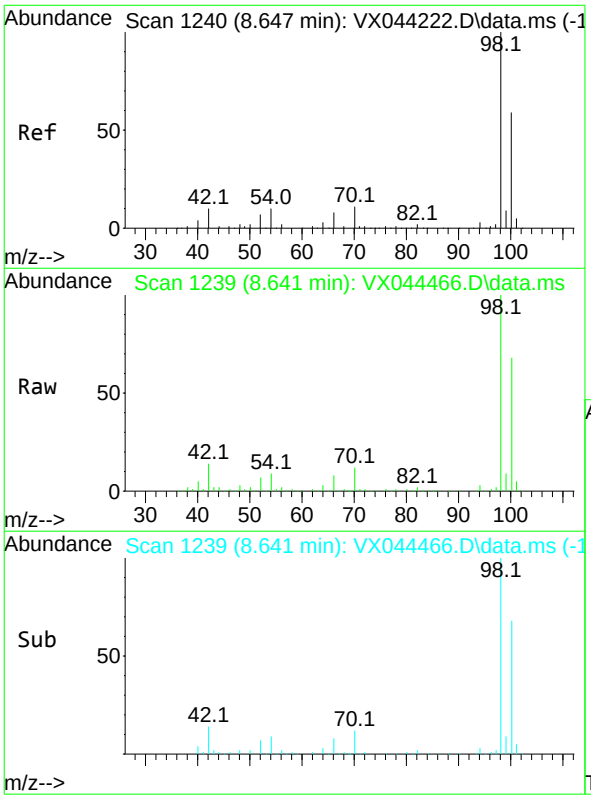
Ion	Ratio	Lower	Upper
88	100		
43	36.1	27.1	40.7
58	68.3	41.0	61.4#



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

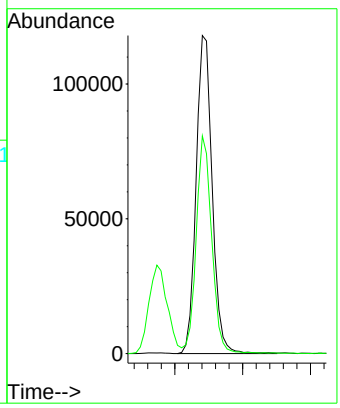
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

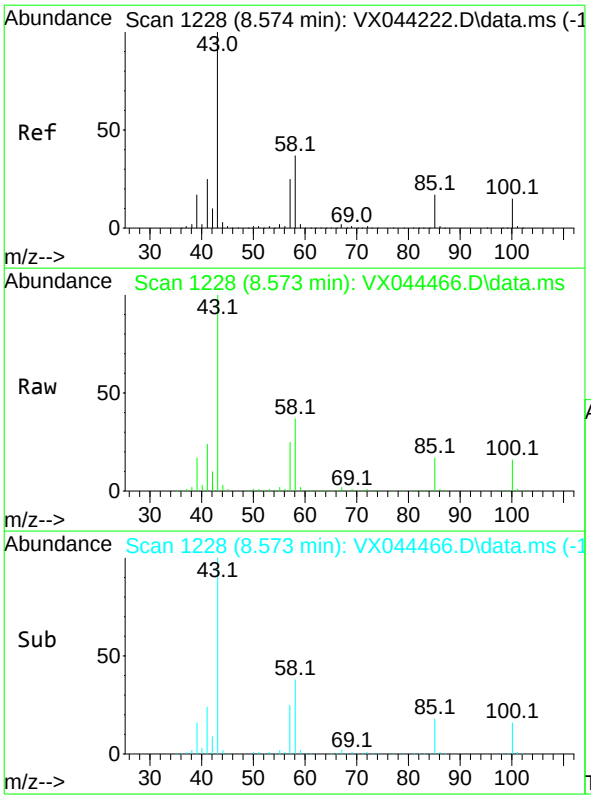


#50
Toluene-d8
Concen: 53.468 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 98 Resp: 193768

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.5	77.3

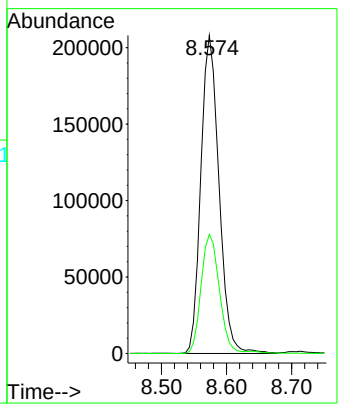




#51
4-Methyl-2-Pentanone
Concen: 233.216 ug/l
RT: 8.573 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 43 Resp: 402283

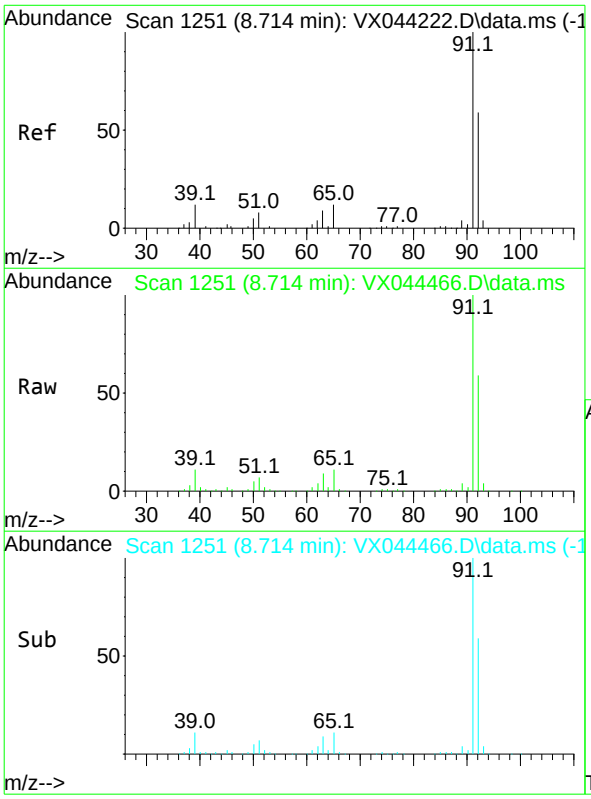
Ion	Ratio	Lower	Upper
43	100		
58	37.5	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

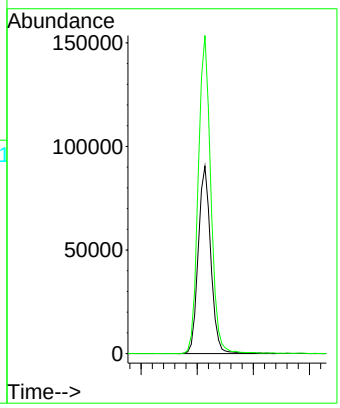
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

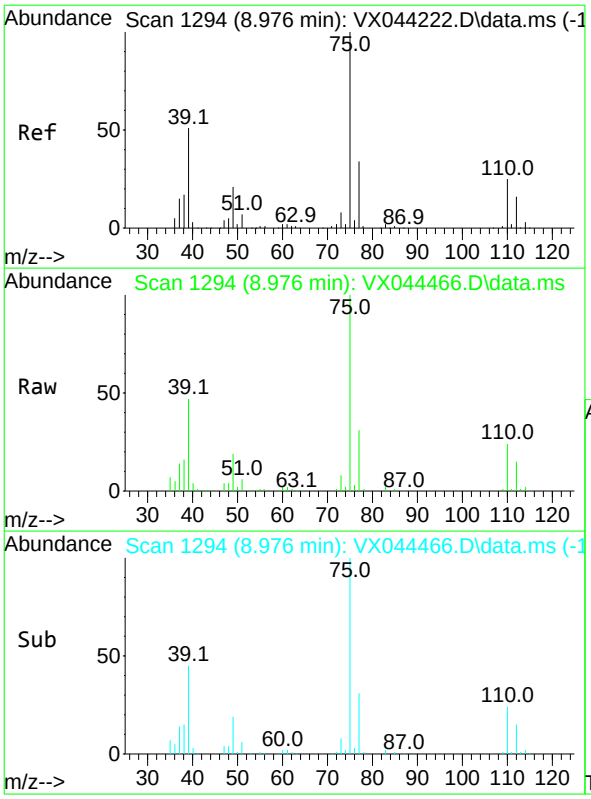


#52
Toluene
Concen: 52.949 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 92 Resp: 140179

Ion	Ratio	Lower	Upper
92	100		
91	170.0	137.0	205.6

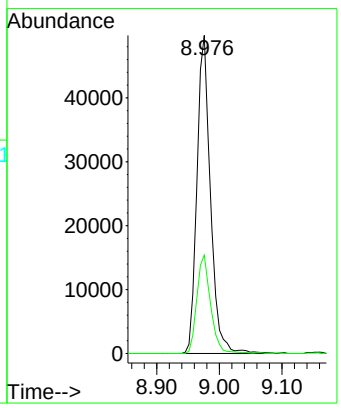




#53
t-1,3-Dichloropropene
Concen: 48.256 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 75 Resp: 74563

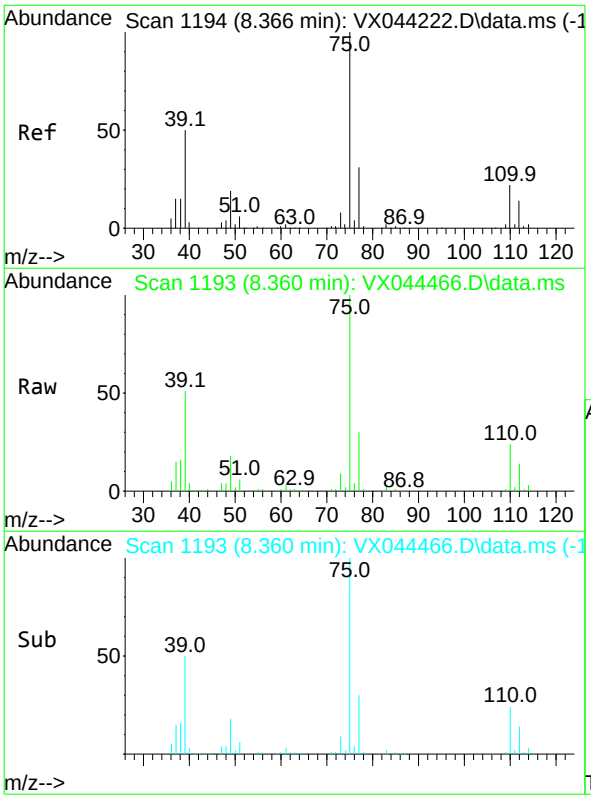
Ion	Ratio	Lower	Upper
75	100		
77	30.9	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

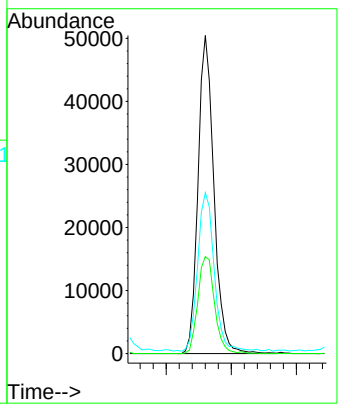
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

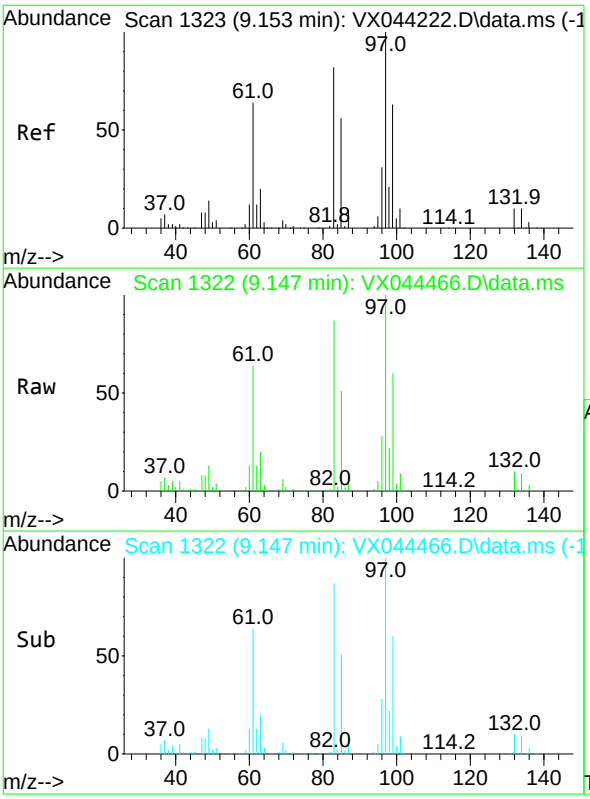


#54
cis-1,3-Dichloropropene
Concen: 54.358 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 75 Resp: 85414

Ion	Ratio	Lower	Upper
75	100		
77	30.5	24.7	37.1
39	49.6	40.3	60.5

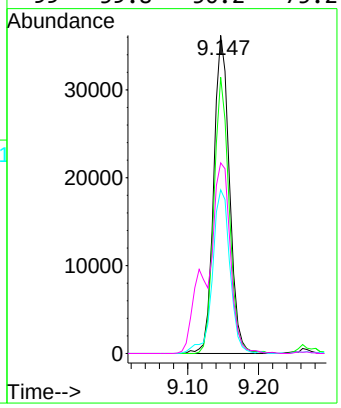




#55
1,1,2-Trichloroethane
Concen: 53.264 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 97 Resp: 56021

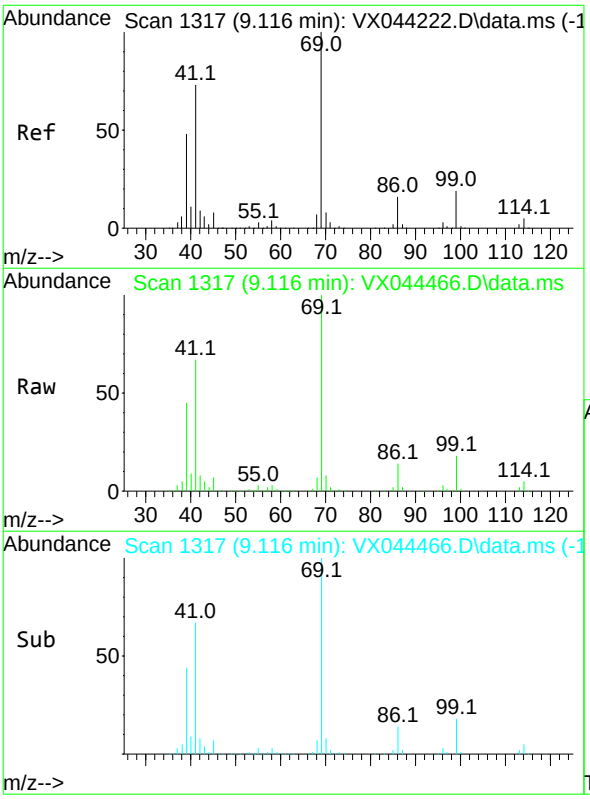
Ion	Ratio	Lower	Upper
97	100		
83	86.8	65.3	97.9
85	51.4	44.6	67.0
99	59.8	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

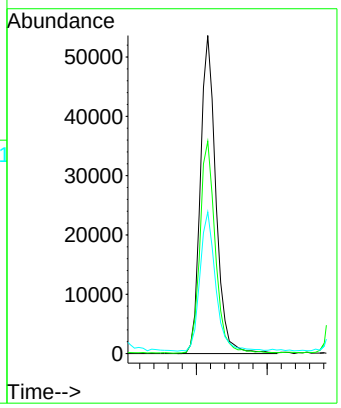
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

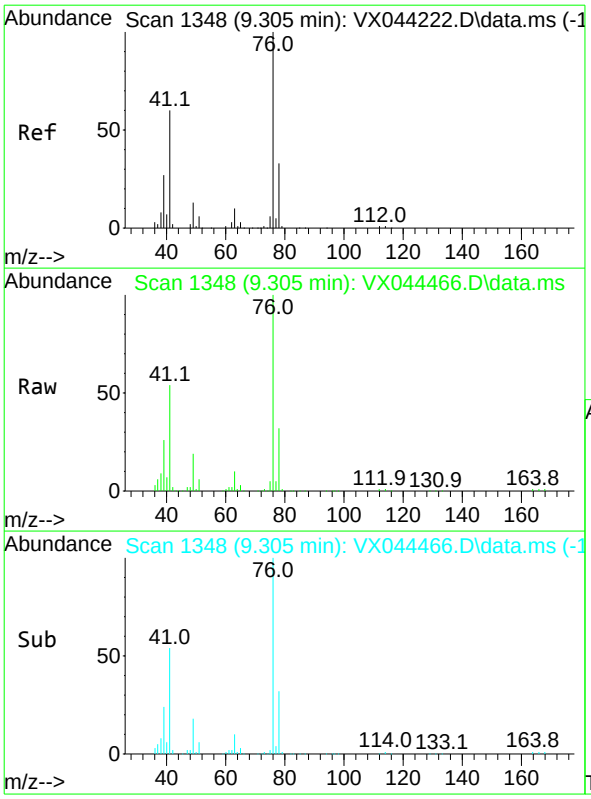


#56
Ethyl methacrylate
Concen: 49.194 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 69 Resp: 81680

Ion	Ratio	Lower	Upper
69	100		
41	66.3	56.6	85.0
39	44.3	37.4	56.0

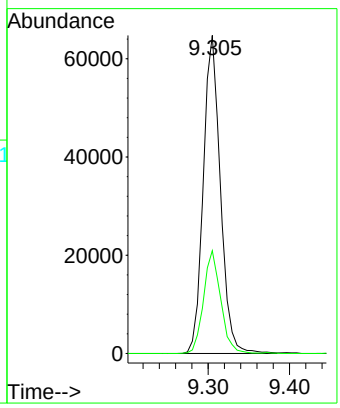




#57
1,3-Dichloropropane
Concen: 51.667 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 76 Resp: 94586

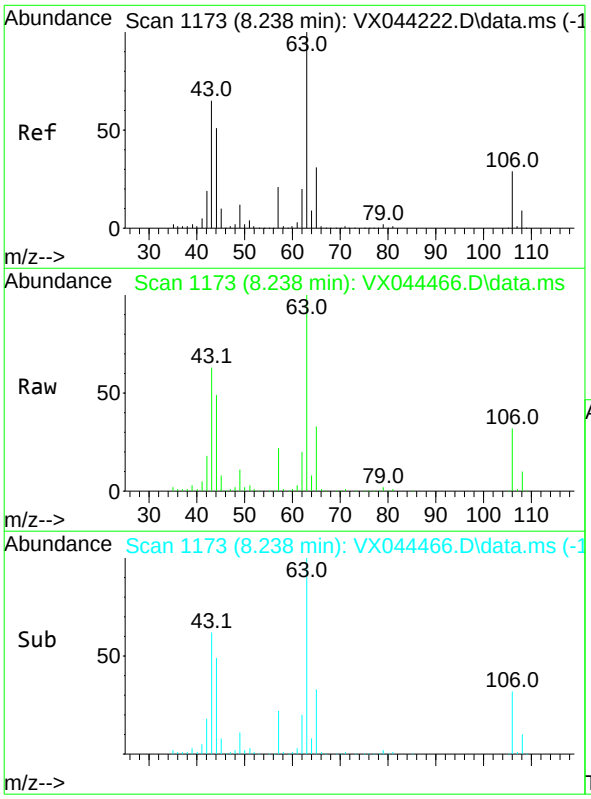
Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

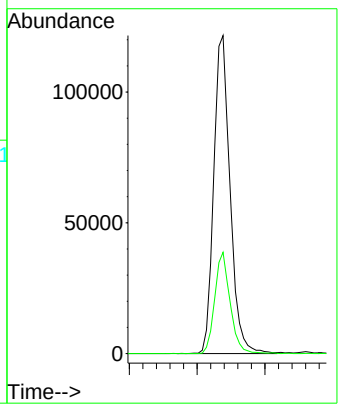
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

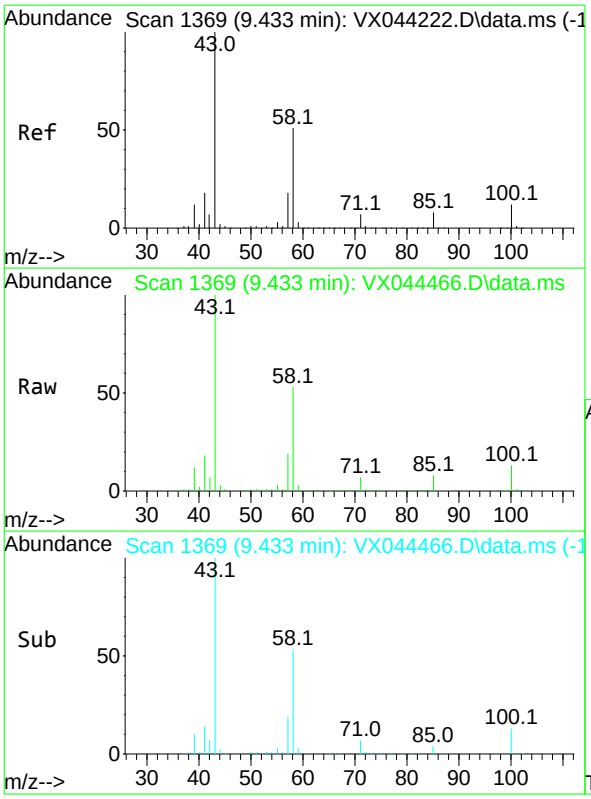


#58
2-Chloroethyl Vinyl ether
Concen: 242.753 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 63 Resp: 203293

Ion	Ratio	Lower	Upper
63	100		
106	30.0	22.8	34.2





#59
2-Hexanone
Concen: 233.464 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

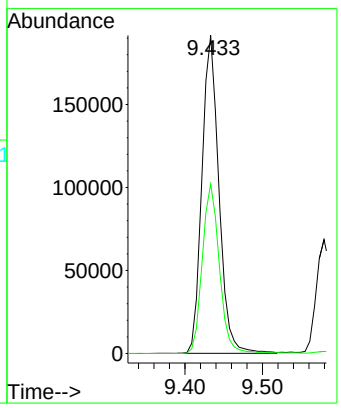
Tgt Ion: 43 Resp: 291491

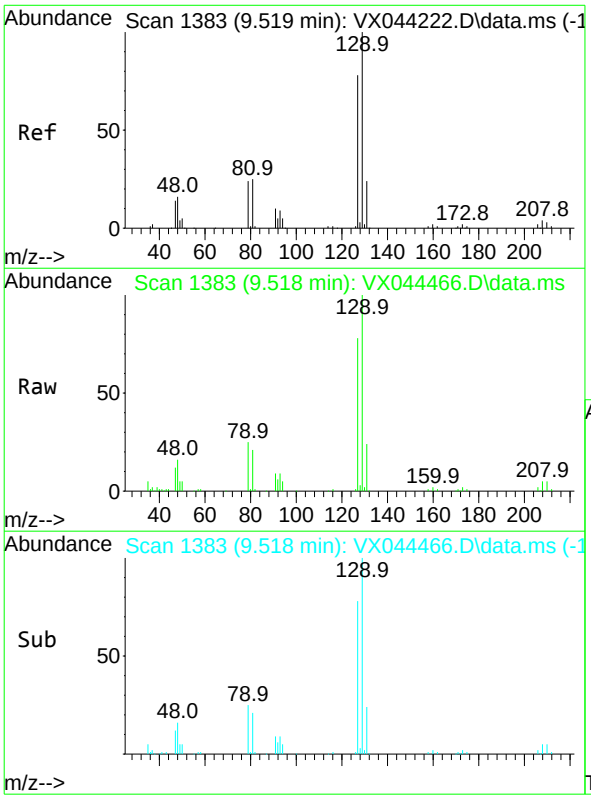
Ion	Ratio	Lower	Upper
43	100		
58	53.5	25.7	77.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

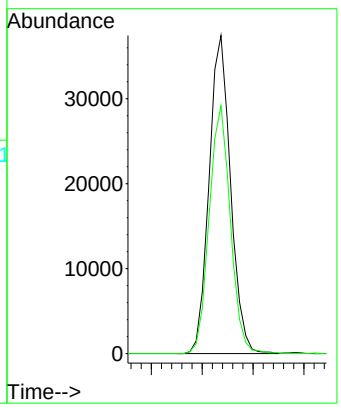


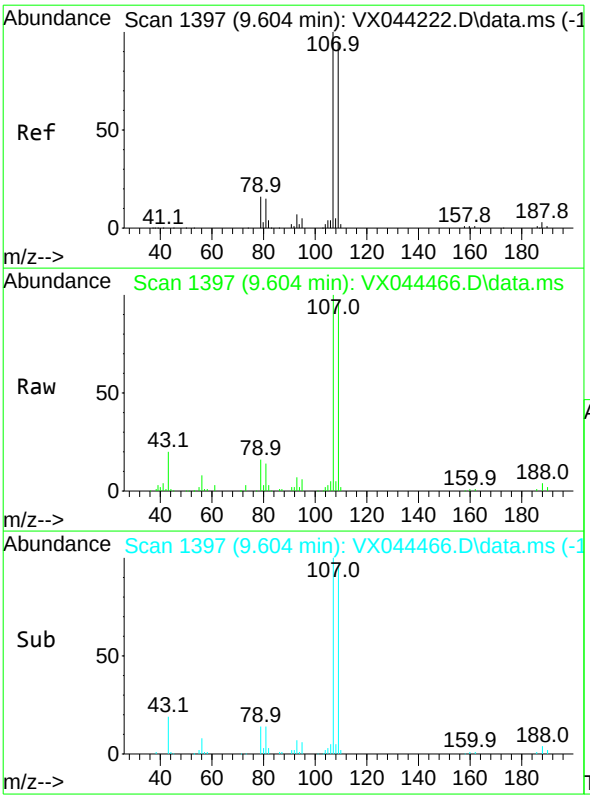


#60
Dibromochloromethane
Concen: 49.335 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:129 Resp: 54898

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.5	115.3

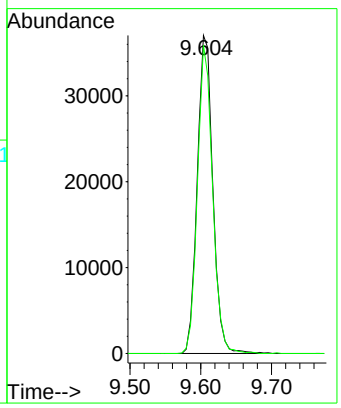




#61
1,2-Dibromoethane
Concen: 52.895 ug/l
RT: 9.604 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:107 Resp: 56628

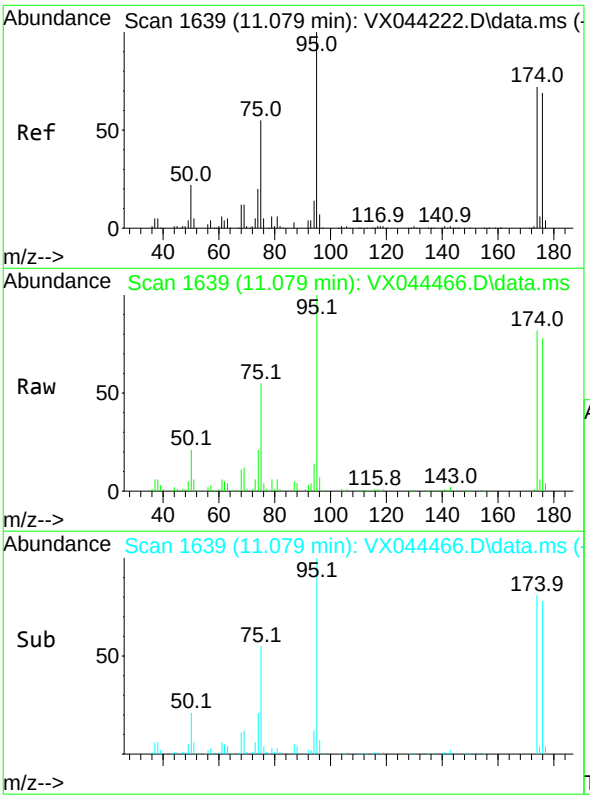
Ion	Ratio	Lower	Upper
107	100		
109	94.4	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

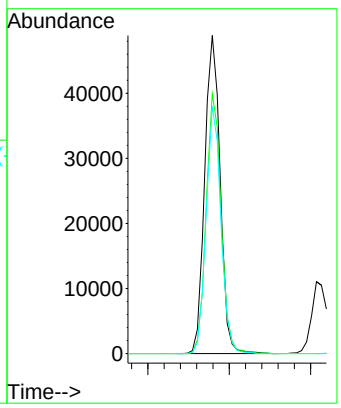
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

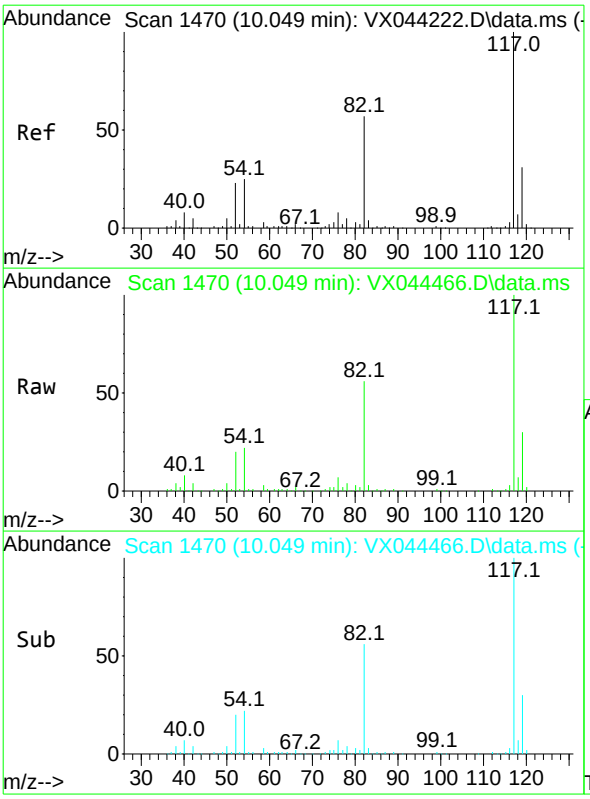


#62
4-Bromofluorobenzene
Concen: 50.827 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 95 Resp: 64363

Ion	Ratio	Lower	Upper
95	100		
174	79.7	0.0	145.8
176	74.8	0.0	137.8

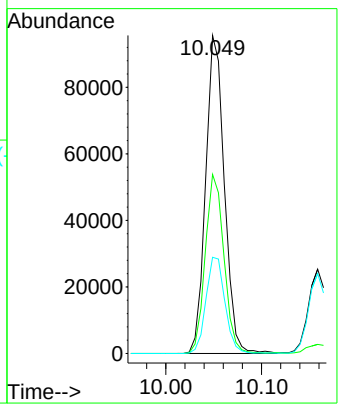




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:117 Resp: 129773

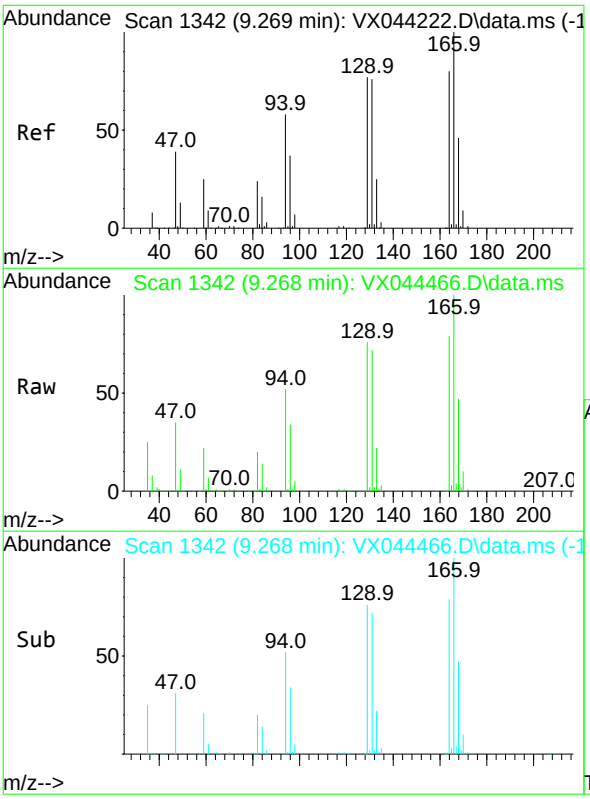
Ion	Ratio	Lower	Upper
117	100		
82	56.3	45.8	68.8
119	30.2	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

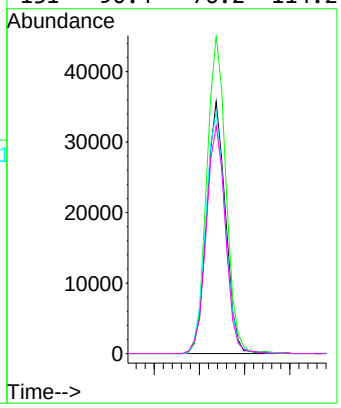
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

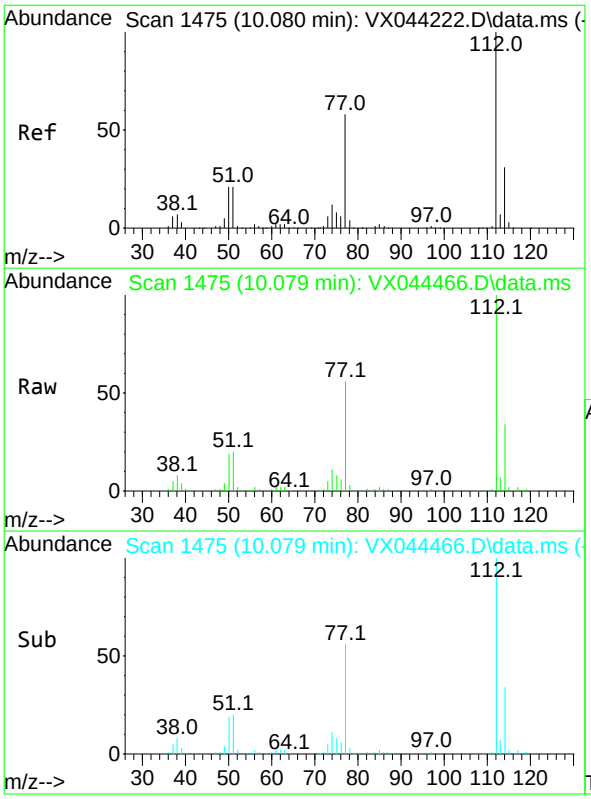


#64
Tetrachloroethene
Concen: 60.182 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:164 Resp: 51836

Ion	Ratio	Lower	Upper
164	100		
166	126.3	100.4	150.6
129	95.7	77.2	115.8
131	90.4	76.2	114.2

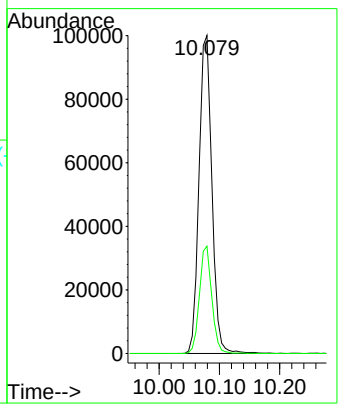




#65
Chlorobenzene
Concen: 53.435 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:112 Resp: 148588

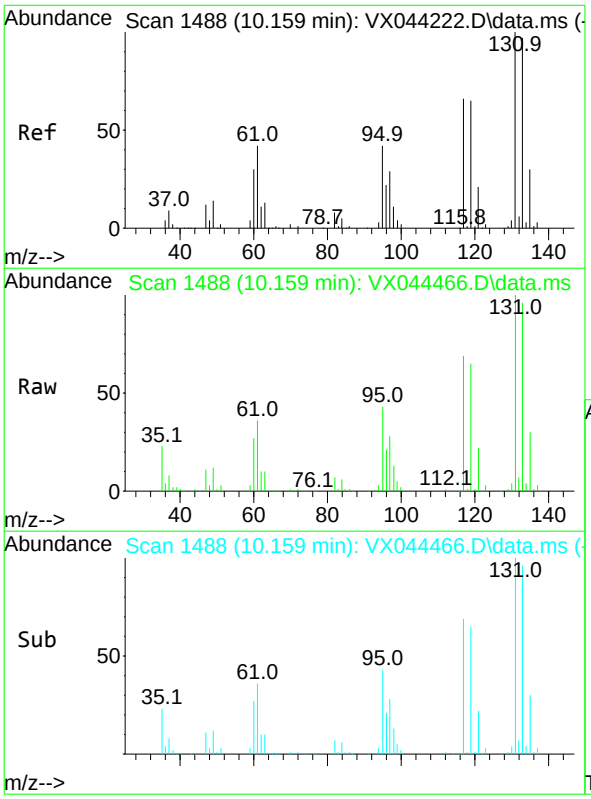
Ion	Ratio	Lower	Upper
112	100		
114	33.7	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

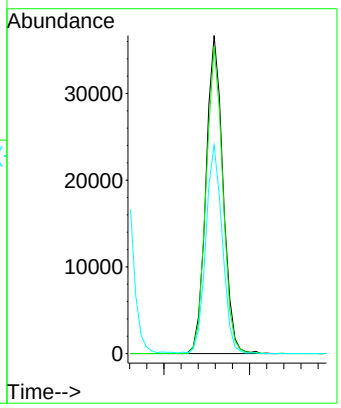
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

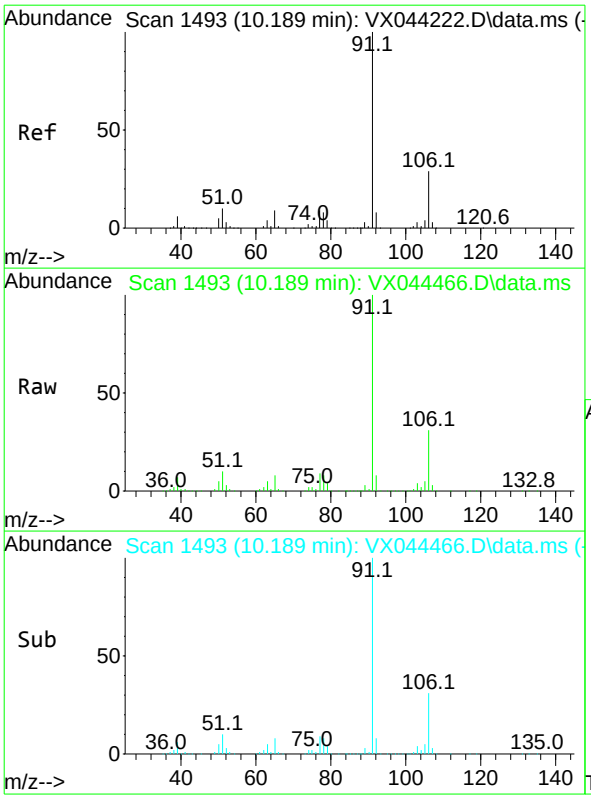


#66
1,1,1,2-Tetrachloroethane
Concen: 56.575 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:131 Resp: 50561

Ion	Ratio	Lower	Upper
131	100		
133	94.2	47.3	141.8
119	63.8	31.6	95.0

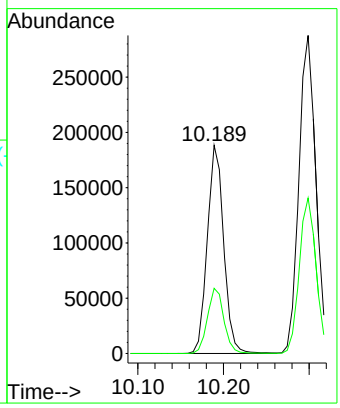




#67
Ethyl Benzene
Concen: 52.159 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 91 Resp: 250606

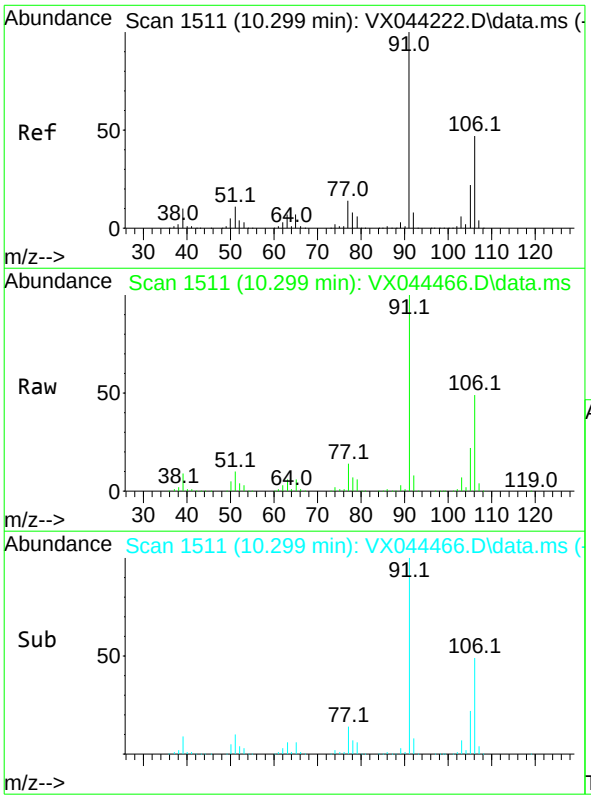
Ion	Ratio	Lower	Upper
91	100		
106	31.3	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

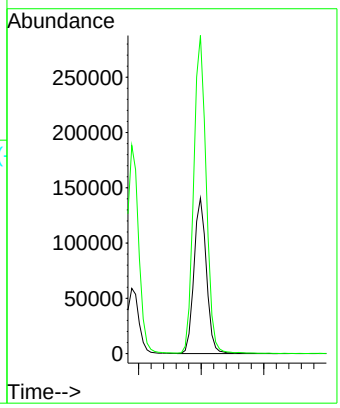
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

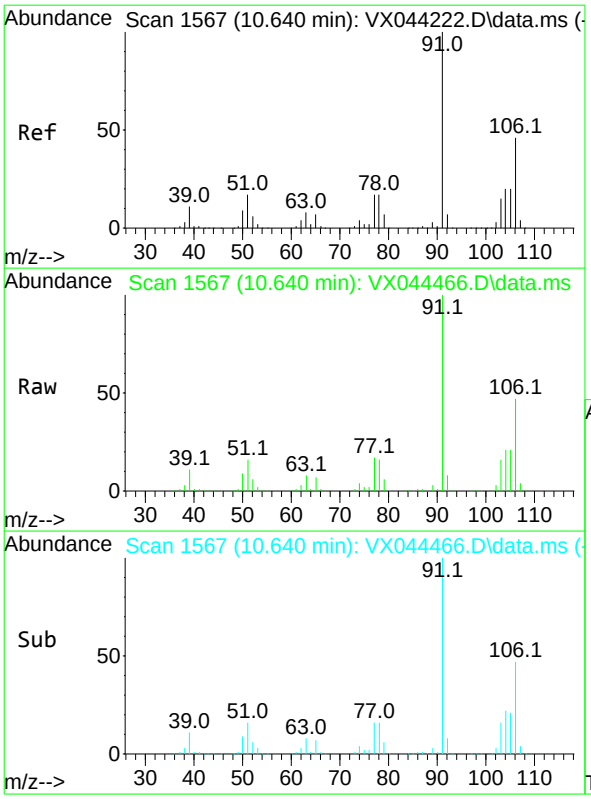


#68
m/p-Xylenes
Concen: 110.024 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:106 Resp: 193976

Ion	Ratio	Lower	Upper
106	100		
91	206.1	170.2	255.2





#69
o-Xylene
Concen: 53.232 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

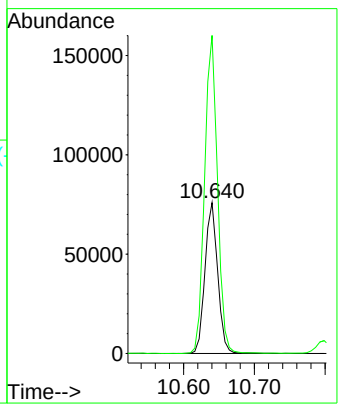
Tgt Ion:106 Resp: 94957

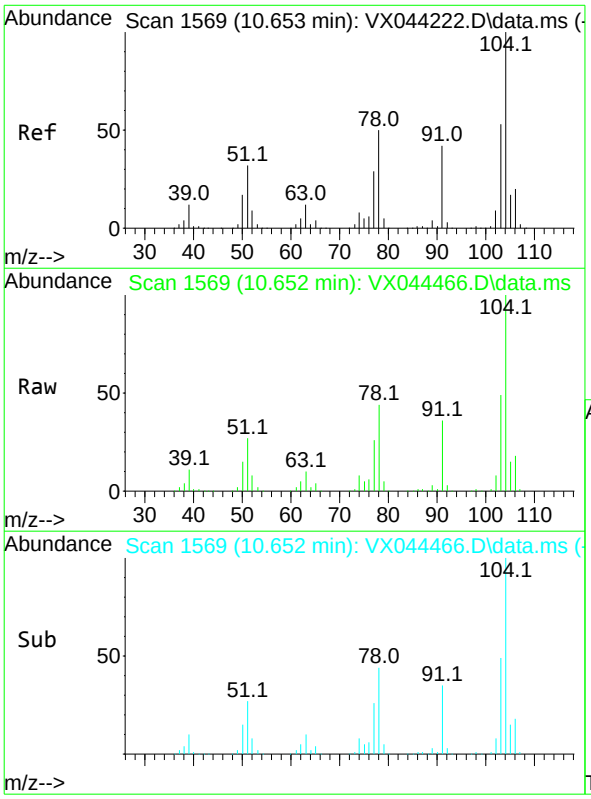
Ion	Ratio	Lower	Upper
106	100		
91	213.5	112.3	337.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

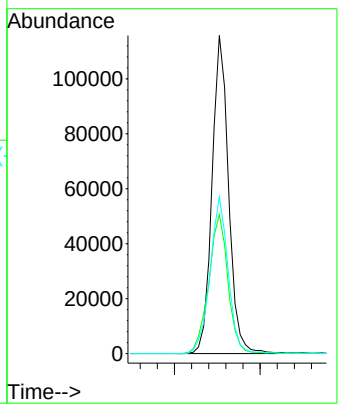


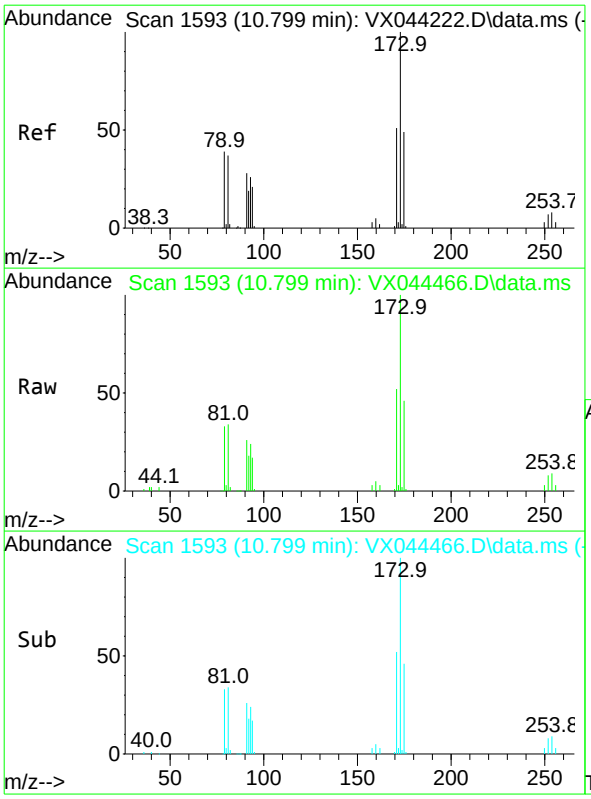


#70
Styrene
Concen: 54.396 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:104 Resp: 155555

Ion	Ratio	Lower	Upper
104	100		
78	50.6	44.6	67.0
103	54.0	45.4	68.0





#71
Bromoform
Concen: 52.112 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

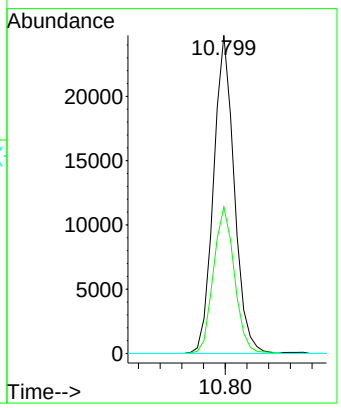
Tgt Ion:173 Resp: 32723

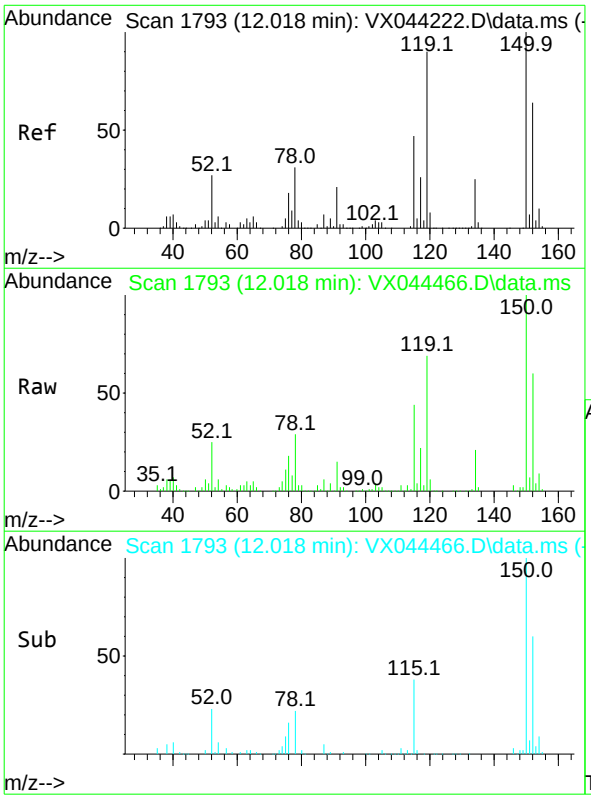
Ion	Ratio	Lower	Upper
173	100		
175	46.8	23.8	71.4
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

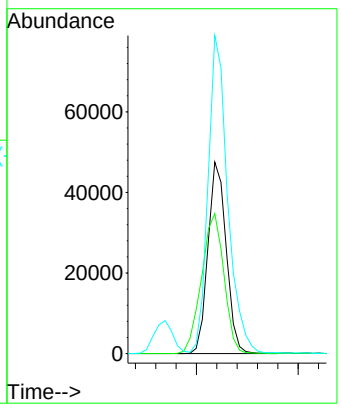


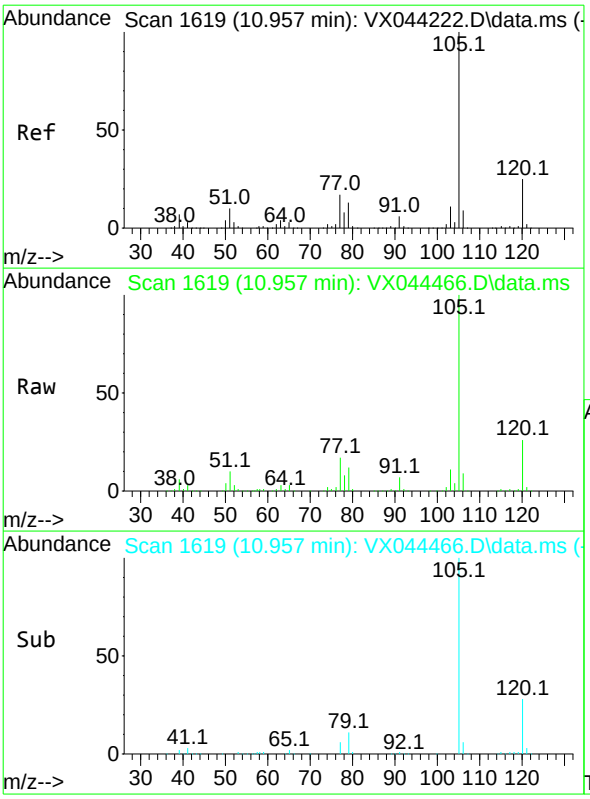


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:152 Resp: 59280

Ion	Ratio	Lower	Upper
152	100		
115	89.6	44.5	133.3
150	179.1	0.0	353.8





#73
Isopropylbenzene
Concen: 54.392 ug/l
RT: 10.957 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

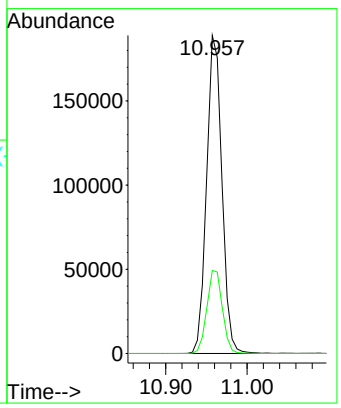
Tgt Ion:105 Resp: 246838

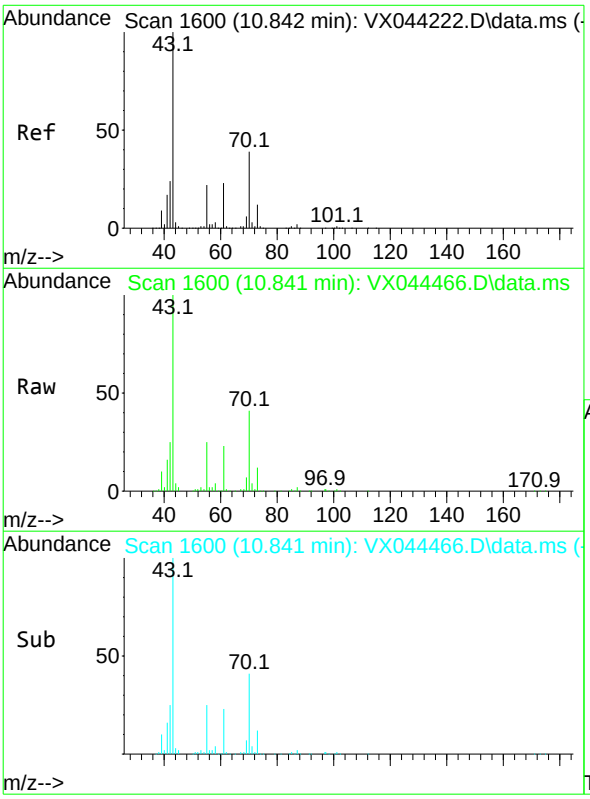
Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.1	39.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

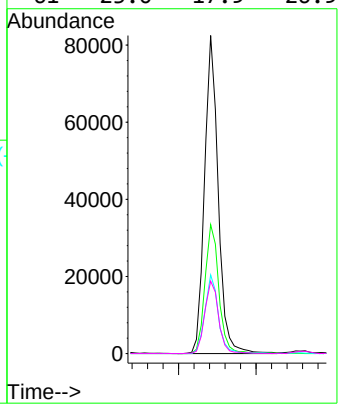


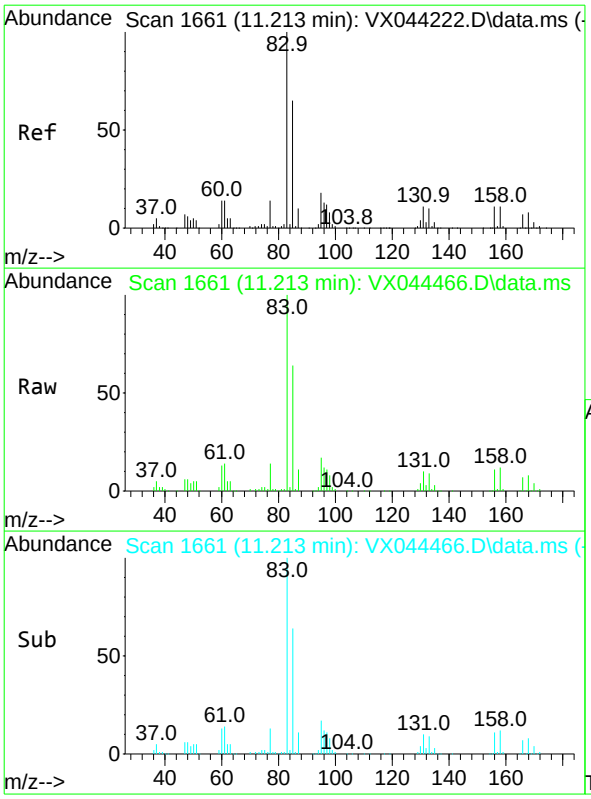


#74
N-amyl acetate
Concen: 48.214 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 43 Resp: 101119

Ion	Ratio	Lower	Upper
43	100		
70	41.3	31.9	47.9
55	24.4	17.9	26.9
61	23.0	17.9	26.9





#75
1,1,2,2-Tetrachloroethane
Concen: 52.066 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

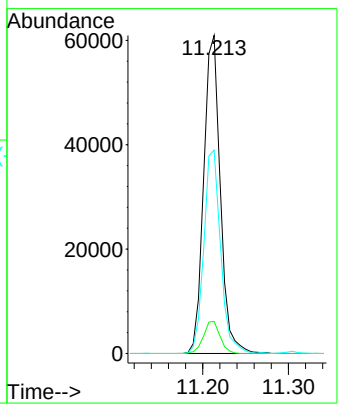
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

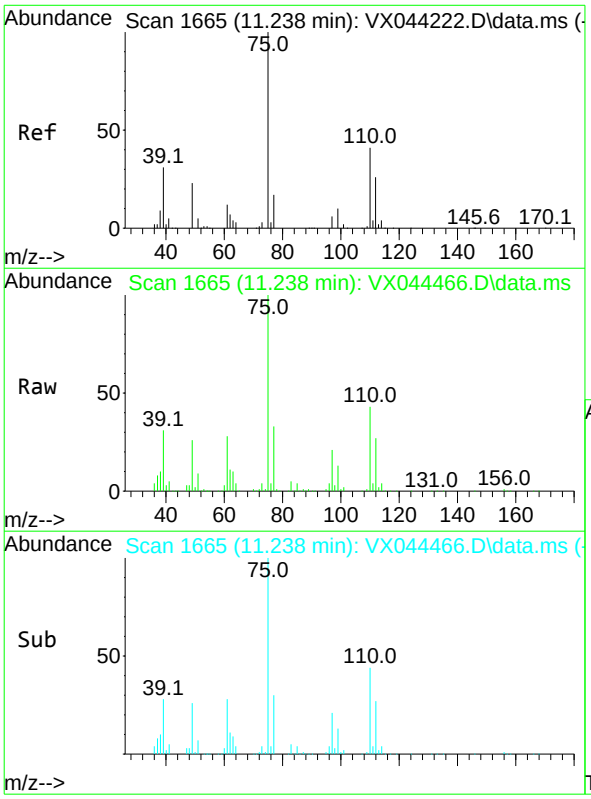
Tgt Ion: 83 Resp: 82068

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.4
85	64.9	32.5	97.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

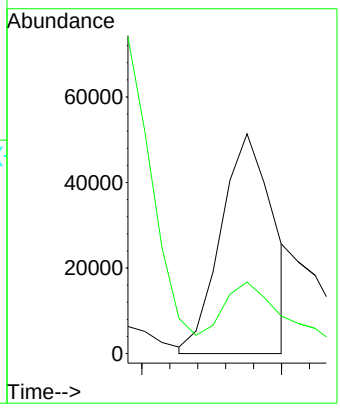


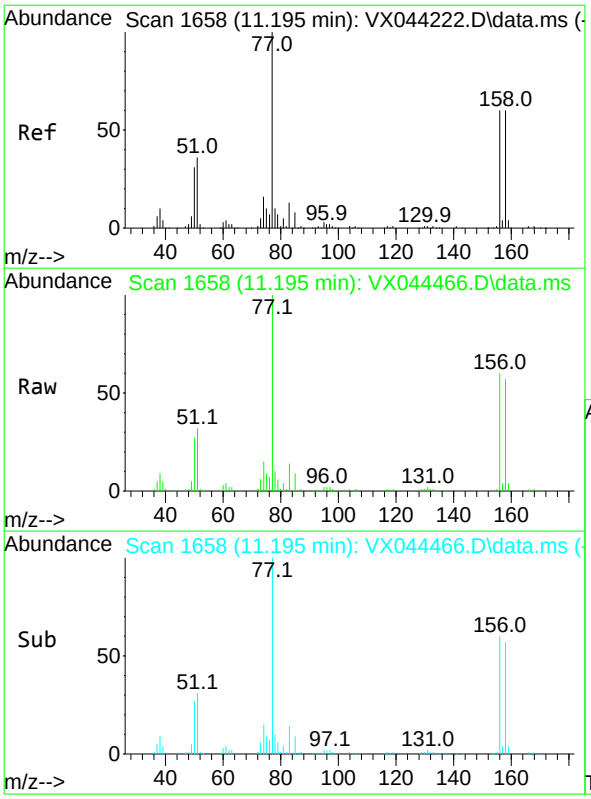


#76
1,2,3-Trichloropropane
Concen: 50.267 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 75 Resp: 66533

Ion	Ratio	Lower	Upper
75	100		
77	42.0	20.9	62.7





#77
Bromobenzene
Concen: 52.949 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

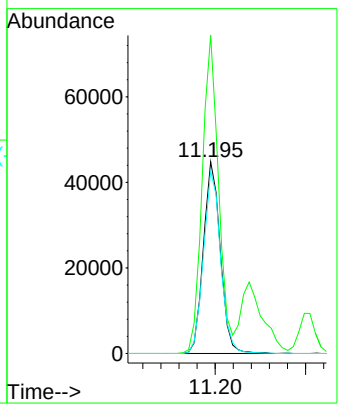
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

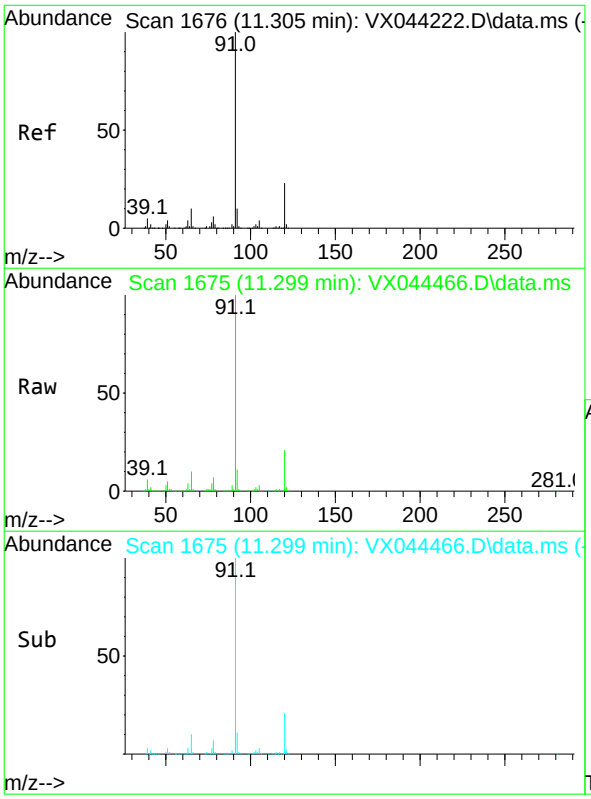
Tgt Ion:156 Resp: 58269

Ion	Ratio	Lower	Upper
156	100		
77	160.3	82.6	247.8
158	96.4	48.8	146.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

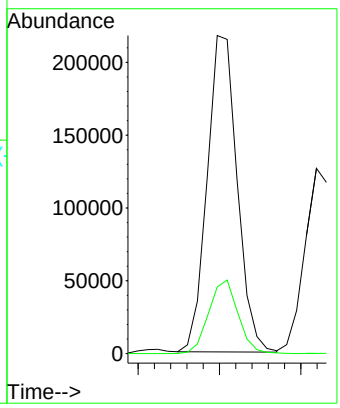


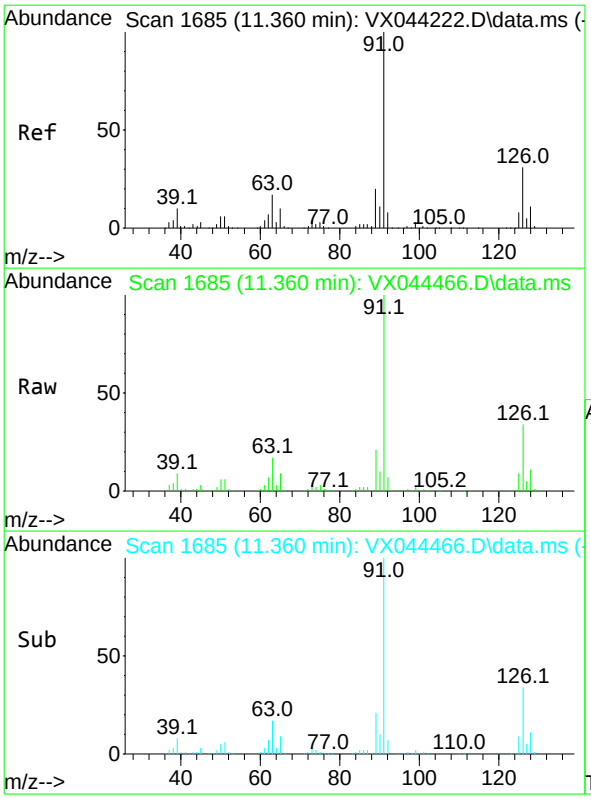


#78
n-propylbenzene
Concen: 55.610 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 91 Resp: 278932

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.0	33.0

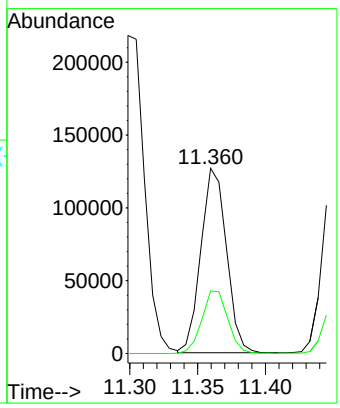




#79
2-Chlorotoluene
Concen: 51.245 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 91 Resp: 166232

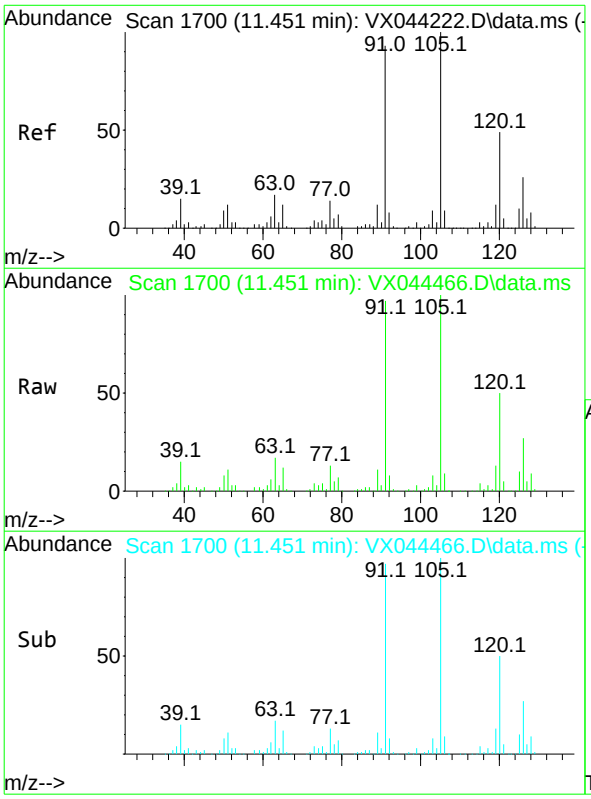
Ion	Ratio	Lower	Upper
91	100		
126	34.7	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

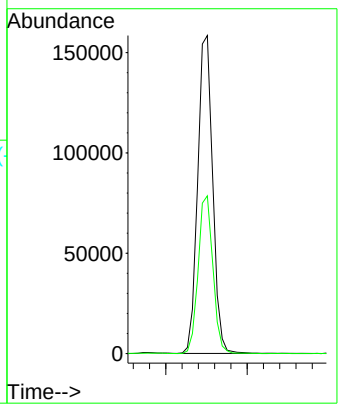
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

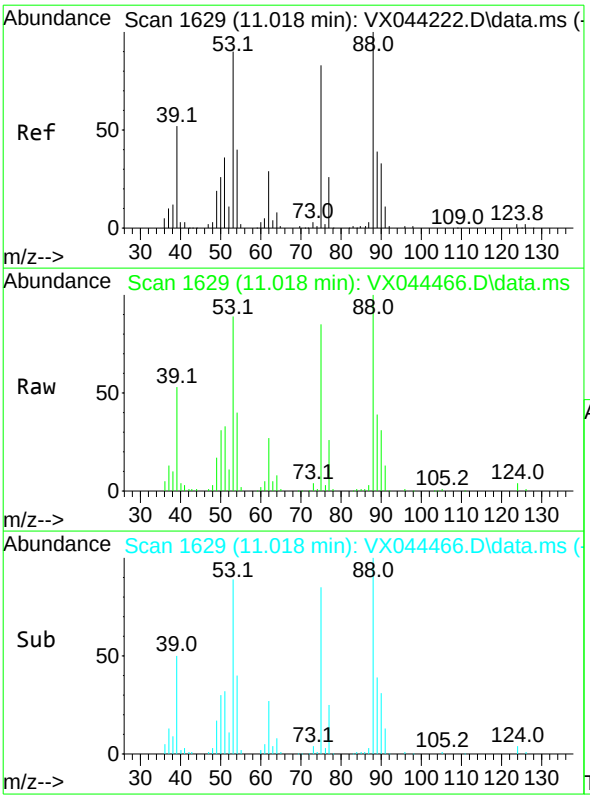


#80
1,3,5-Trimethylbenzene
Concen: 53.807 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:105 Resp: 202499

Ion	Ratio	Lower	Upper
105	100		
120	49.0	23.8	71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 48.538 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

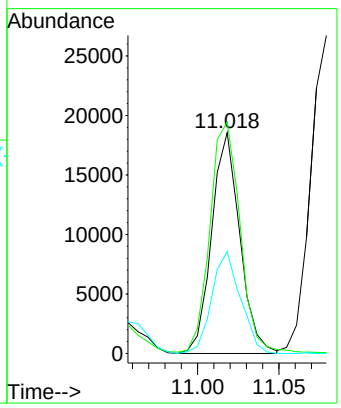
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

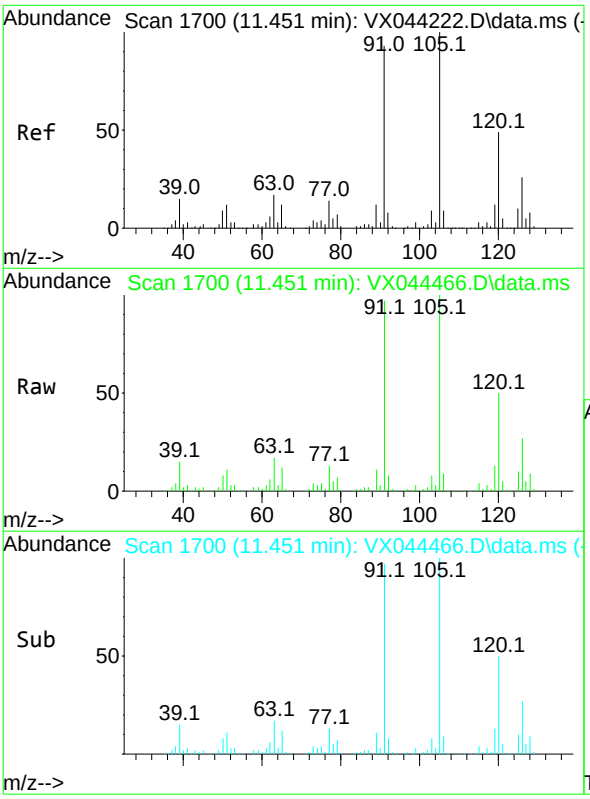
Tgt Ion: 75 Resp: 22335

Ion	Ratio	Lower	Upper
75	100		
53	113.5	93.6	140.4
89	47.1	37.3	55.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

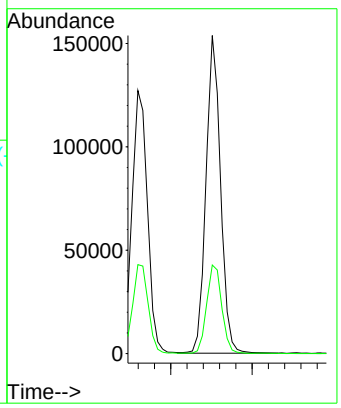


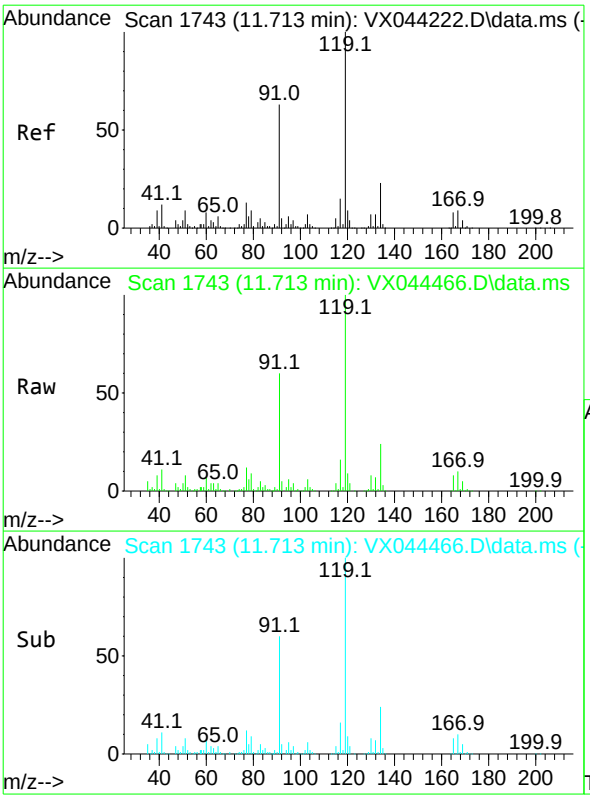


#82
4-Chlorotoluene
Concen: 52.988 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 91 Resp: 190339

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.5	43.5

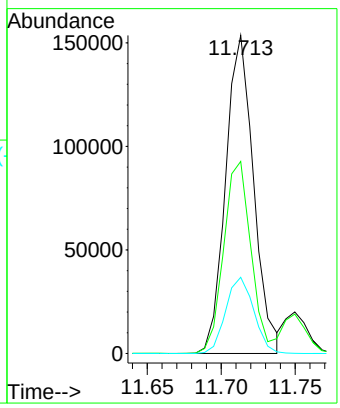




#83
tert-Butylbenzene
Concen: 54.400 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:119 Resp: 202328

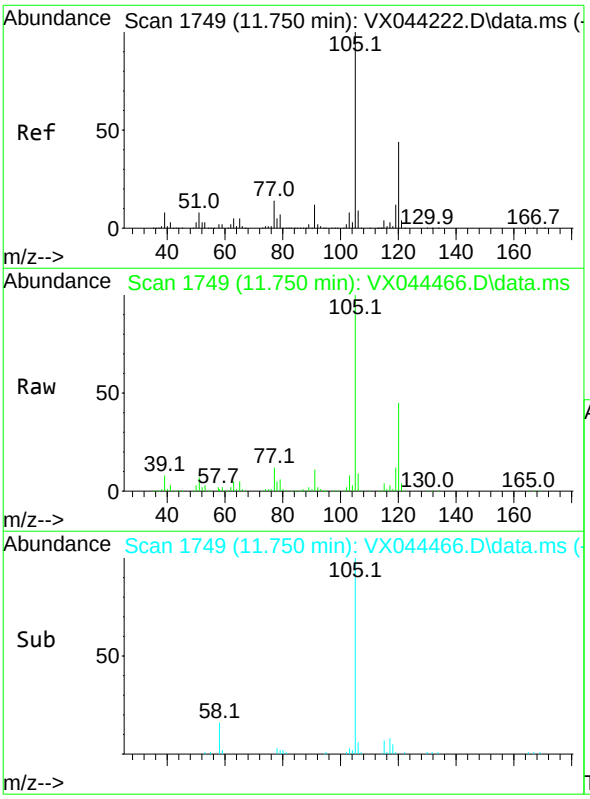
Ion	Ratio	Lower	Upper
119	100		
91	58.4	30.9	92.5
134	24.0	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

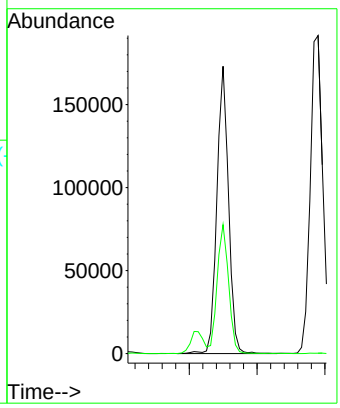
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

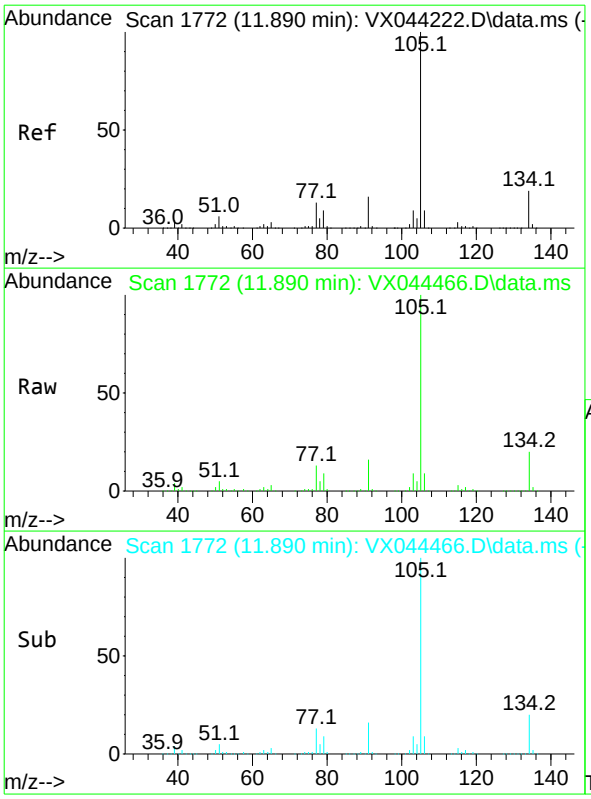


#84
1,2,4-Trimethylbenzene
Concen: 55.839 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:105 Resp: 206380

Ion	Ratio	Lower	Upper
105	100		
120	44.3	21.7	65.1

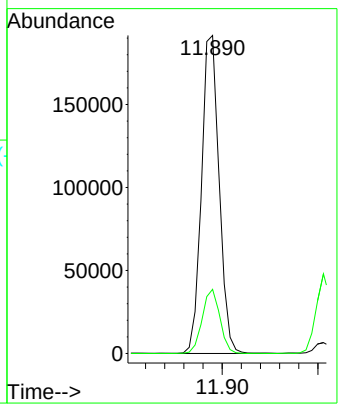




#85
sec-Butylbenzene
Concen: 54.332 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:105 Resp: 245317

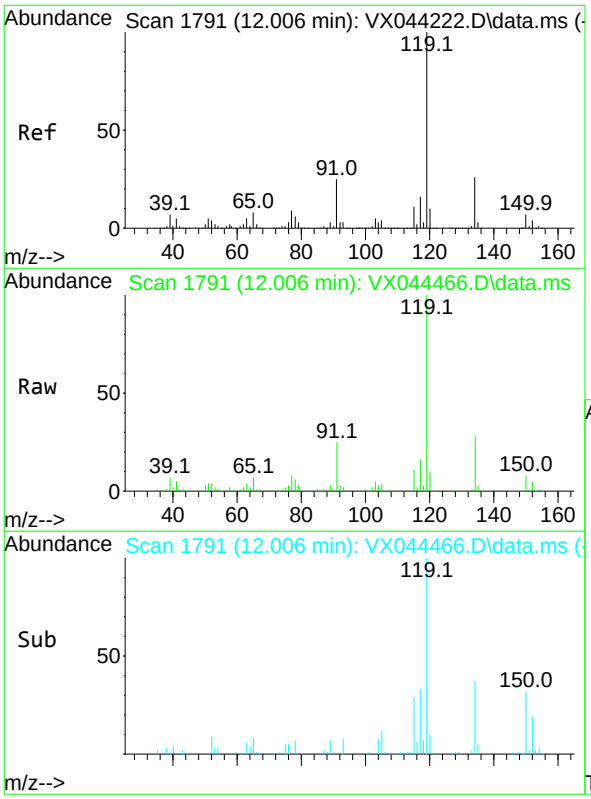
Ion	Ratio	Lower	Upper
105	100		
134	20.2	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

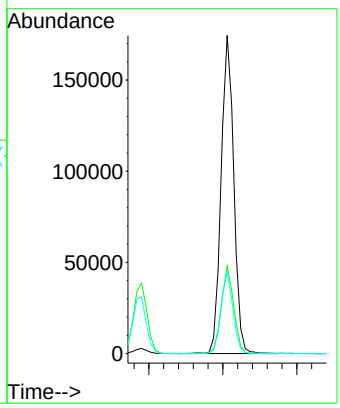
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

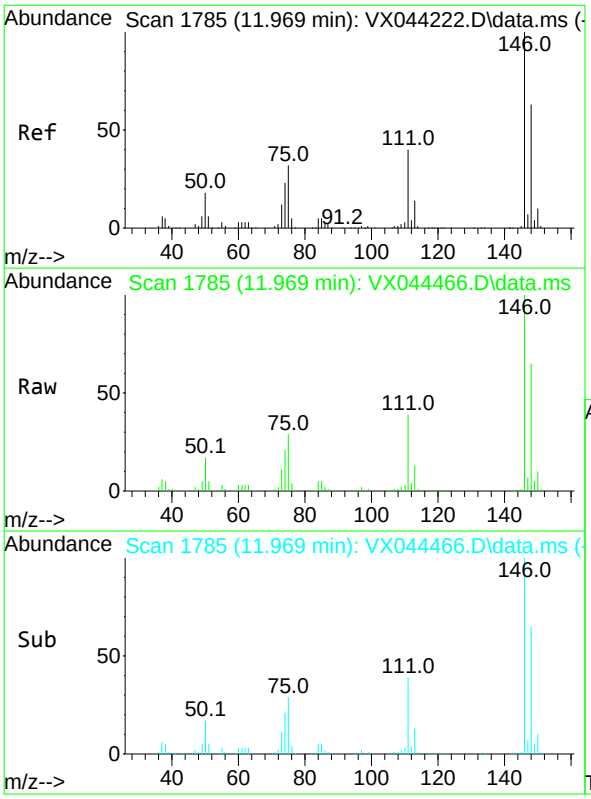


#86
p-Isopropyltoluene
Concen: 55.162 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:119 Resp: 207299

Ion	Ratio	Lower	Upper
119	100		
134	26.7	12.8	38.4
91	24.7	13.0	39.0





#87
1,3-Dichlorobenzene
Concen: 53.639 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

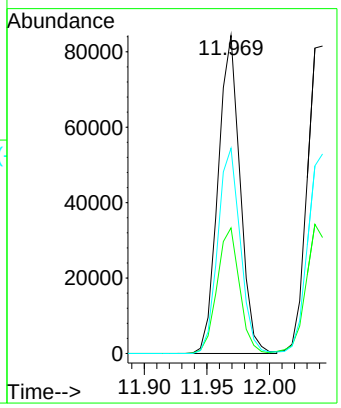
Tgt Ion:146 Resp: 103109

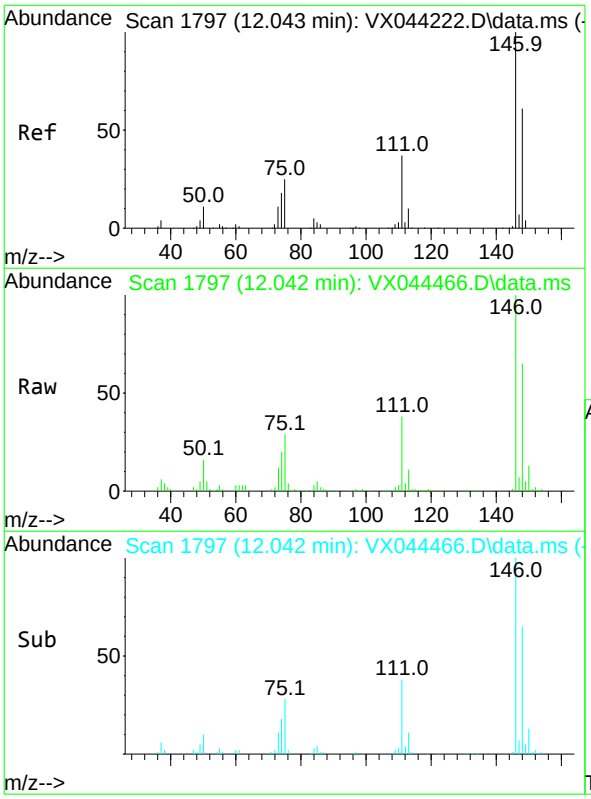
Ion	Ratio	Lower	Upper
146	100		
111	40.2	21.4	64.2
148	66.0	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

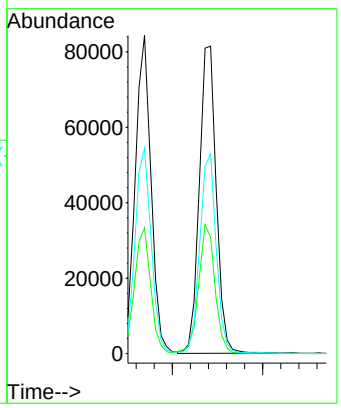


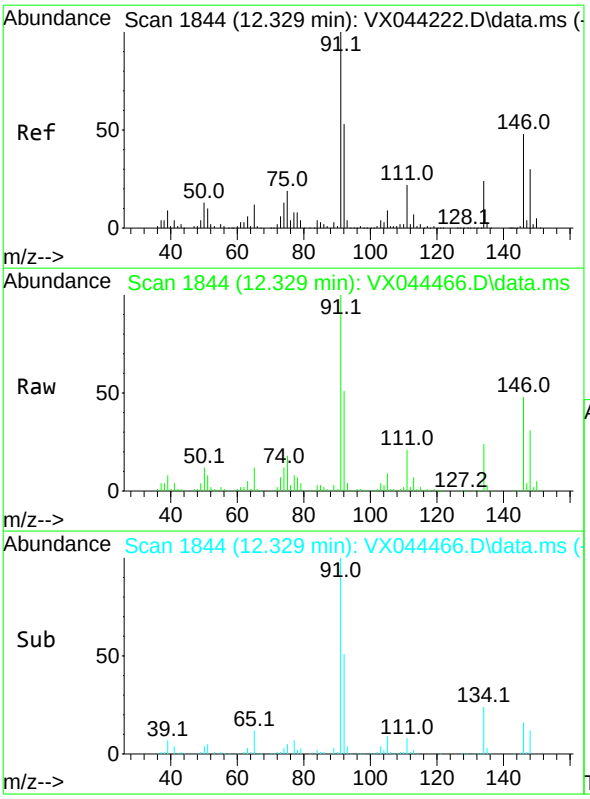


#88
1,4-Dichlorobenzene
Concen: 53.777 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:146 Resp: 106265

Ion	Ratio	Lower	Upper
146	100		
111	40.6	21.0	63.0
148	62.8	32.3	96.8





#89
n-Butylbenzene
Concen: 54.910 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

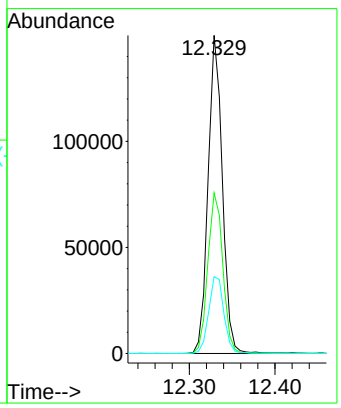
Tgt Ion: 91 Resp: 173517

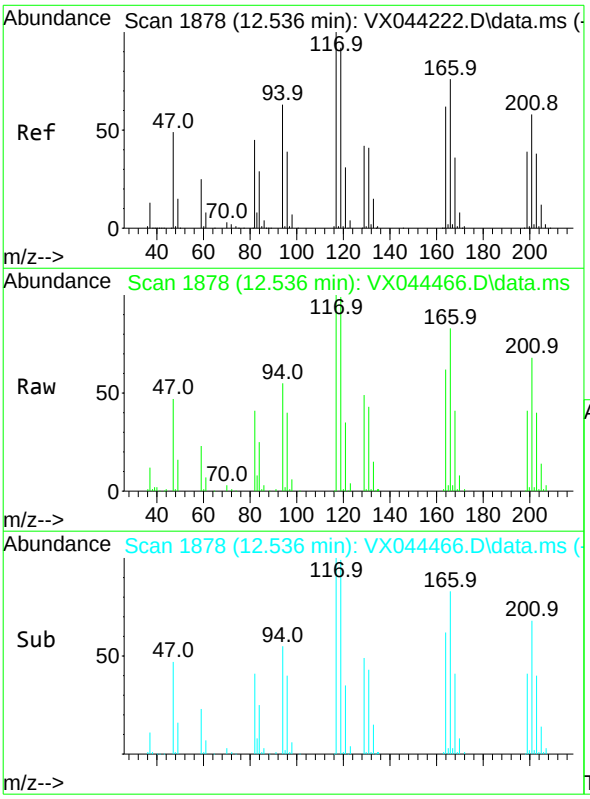
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.6	79.7
134	25.8	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

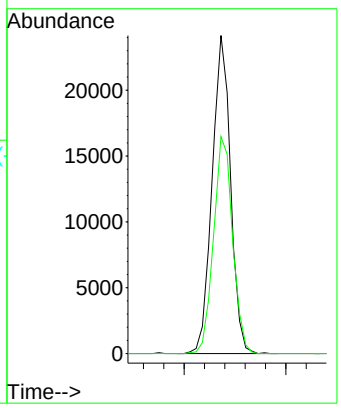


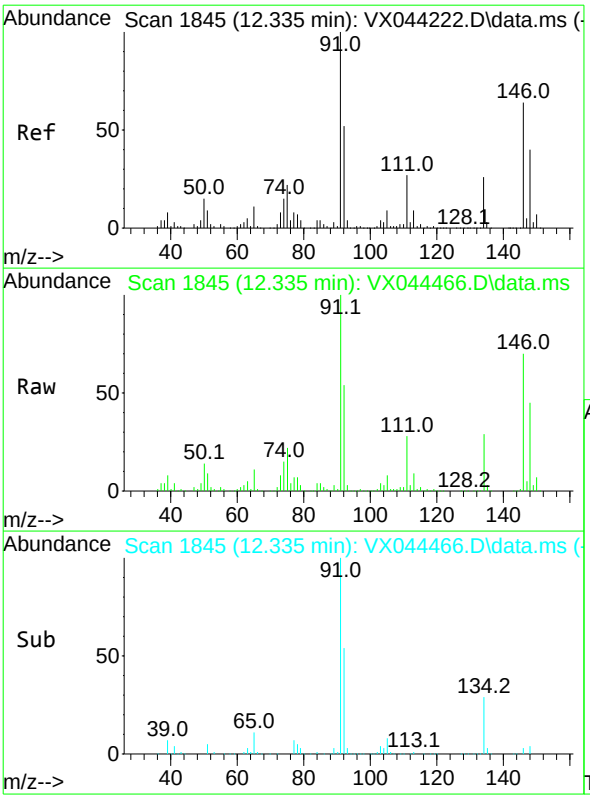


#90
Hexachloroethane
Concen: 55.398 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:117 Resp: 30390

Ion	Ratio	Lower	Upper
117	100		
201	70.4	31.4	94.2





#91
1,2-Dichlorobenzene
Concen: 53.130 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

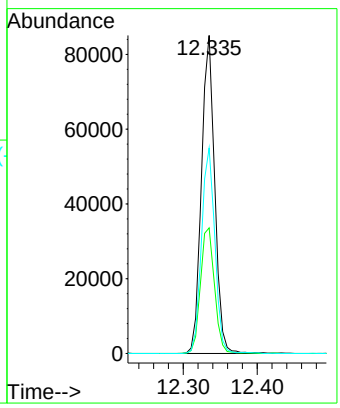
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

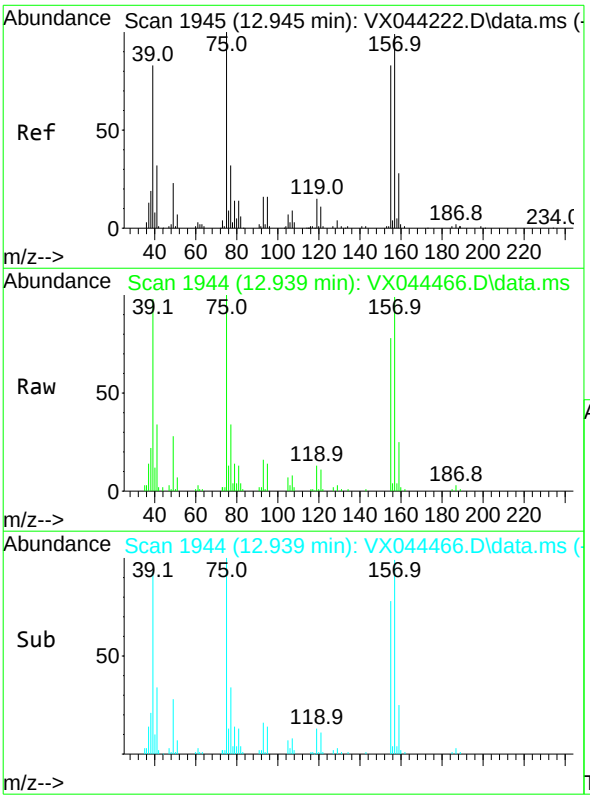
Tgt Ion:146 Resp: 106046

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.4	64.3
148	65.2	31.6	95.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

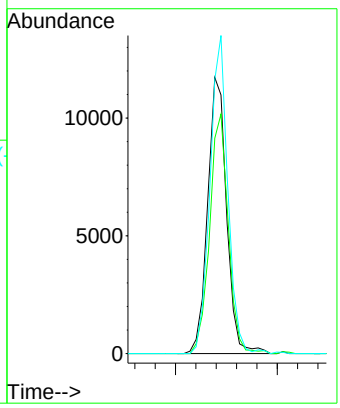


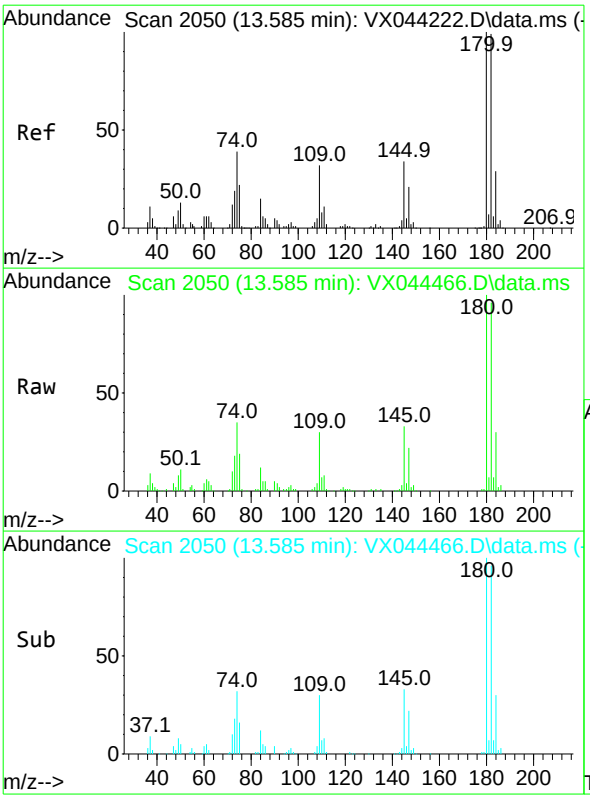


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.558 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion: 75 Resp: 15164

Ion	Ratio	Lower	Upper
75	100		
155	85.3	38.1	114.3
157	108.8	47.2	141.6

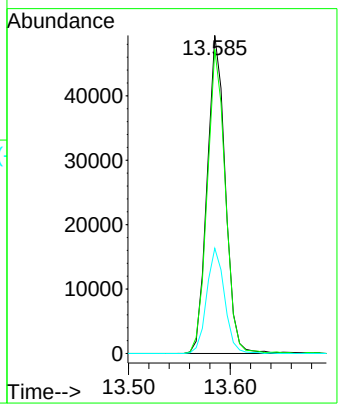




#93
1,2,4-Trichlorobenzene
Concen: 55.746 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:180 Resp: 61001

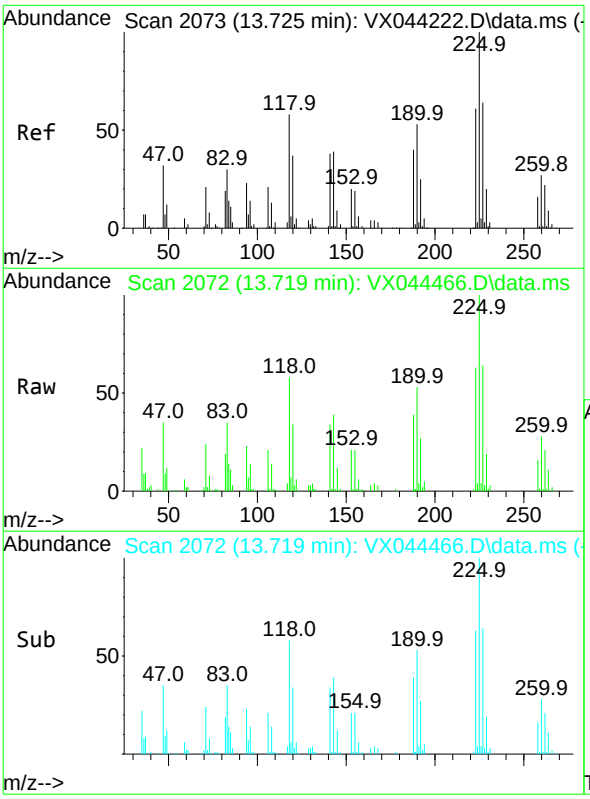
Ion	Ratio	Lower	Upper
180	100		
182	95.6	48.0	144.2
145	32.7	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

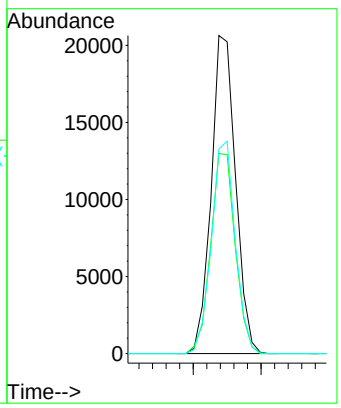
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

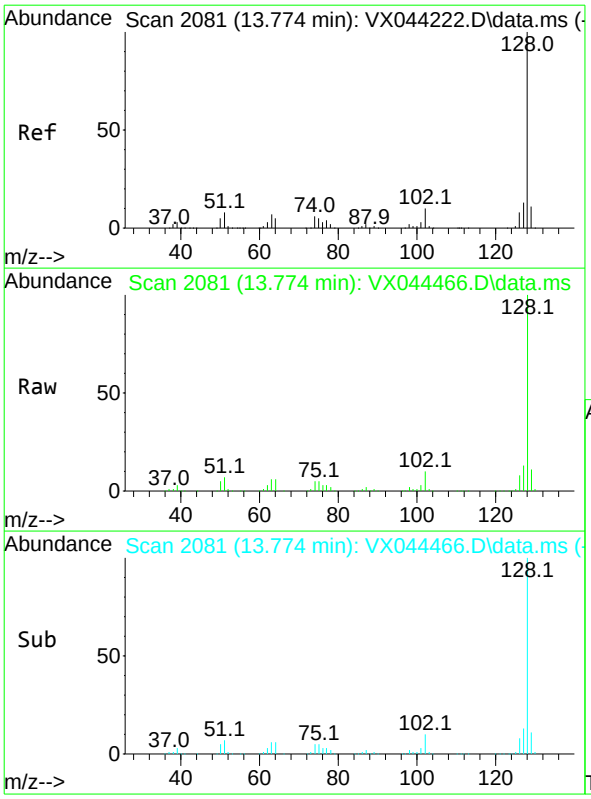


#94
Hexachlorobutadiene
Concen: 58.407 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:225 Resp: 25708

Ion	Ratio	Lower	Upper
225	100		
223	63.7	30.8	92.4
227	65.3	32.1	96.3

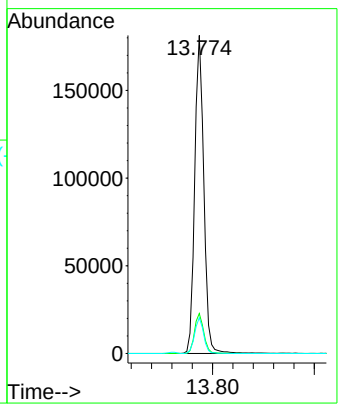




#95
Naphthalene
Concen: 52.712 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:128 Resp: 225150

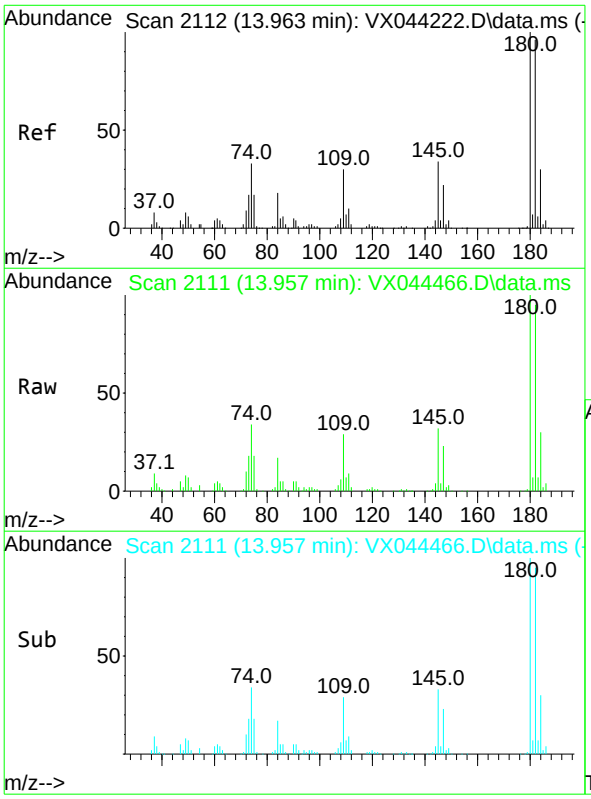
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	11.1	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

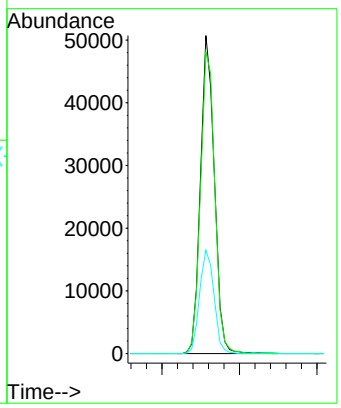
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024



#96
1,2,3-Trichlorobenzene
Concen: 54.418 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044466.D
Acq: 23 Dec 2024 08:49

Tgt Ion:180 Resp: 63159

Ion	Ratio	Lower	Upper
180	100		
182	97.7	48.0	144.0
145	33.8	17.7	53.1



Sample Results: **VX044466.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044466.D
Acq On : 23 Dec 2024 08:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 23 21:50:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	78	0.00
2	T	Dichlorodifluoromethane	0.773	0.826	-6.9	82	0.00
3	P	Chloromethane	0.739	0.733	0.8	76	0.00
4	C	Vinyl Chloride	0.770	0.718	6.8#	71	0.00
5	T	Bromomethane	0.546	0.480	12.1	68	0.00
6	T	Chloroethane	0.480	0.398	17.1	58	0.00
7	T	Trichlorofluoromethane	1.508	1.293	14.3	66	0.00
8	T	Diethyl Ether	0.515	0.389	24.5	59	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.610	0.663	-8.7	84	0.00
10	T	Methyl Iodide	0.804	0.722	10.2	67	0.00
11	T	Tert butyl alcohol	0.124	0.036	71.0#	23#	0.00
12	CM	1,1-Dichloroethene	0.560	0.569	-1.6#	75	0.00
13	T	Acrolein	0.179	0.126	29.6#	53	0.00
14	T	Allyl chloride	0.933	0.875	6.2	68	0.00
15	T	Acrylonitrile	0.342	0.321	6.1	70	0.00
16	T	Acetone	0.357	0.295	17.4	60	0.00
17	T	Carbon Disulfide	1.065	0.991	6.9	67	0.00
18	T	Methyl Acetate	0.922	0.827	10.3	68	0.00
19	T	Methyl tert-butyl Ether	2.187	1.927	11.9	65	0.00
20	T	Methylene Chloride	0.671	0.595	11.3	67	0.00
21	T	trans-1,2-Dichloroethene	0.596	0.569	4.5	72	0.00
22	T	Diisopropyl ether	2.102	1.888	10.2	68	-0.01
23	T	Vinyl Acetate	1.709	1.594	6.7	65	0.00
24	P	1,1-Dichloroethane	1.172	1.079	7.9	68	0.00
25	T	2-Butanone	0.508	0.426	16.1	61	0.00
26	T	2,2-Dichloropropane	0.952	0.969	-1.8	72	0.00
27	T	cis-1,2-Dichloroethene	0.756	0.701	7.3	71	0.00
28	T	Bromochloromethane	0.575	0.473	17.7	62	0.00
29	T	Tetrahydrofuran	0.326	0.276	15.3	64	0.00
30	C	Chloroform	1.316	1.165	11.5#	68	0.00
31	T	Cyclohexane	0.946	0.964	-1.9	77	0.00
32	T	1,1,1-Trichloroethane	1.093	1.033	5.5	69	0.00
33	S	1,2-Dichloroethane-d4	0.877	0.735	16.2	62	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	66	0.00
35	S	Dibromofluoromethane	0.346	0.372	-7.5	67	0.00
36	T	1,1-Dichloropropene	0.448	0.497	-10.9	74	0.00
37	T	Ethyl Acetate	0.553	0.534	3.4	61	-0.02
38	T	Carbon Tetrachloride	0.482	0.532	-10.4	70	0.00
39	T	Methylcyclohexane	0.535	0.657	-22.8	79	0.00
40	TM	Benzene	1.359	1.479	-8.8	70	0.00
41	T	Methacrylonitrile	0.294	0.277	5.8	61	0.00
42	TM	1,2-Dichloroethane	0.560	0.539	3.8	61	-0.01
43	T	Isopropyl Acetate	0.865	0.829	4.2	60	0.00
44	TM	Trichloroethene	0.339	0.375	-10.6	71	0.00
45	C	1,2-Dichloropropane	0.347	0.363	-4.6#	68	0.00
46	T	Dibromomethane	0.269	0.282	-4.8	66	0.00
47	T	Bromodichloromethane	0.465	0.505	-8.6	66	0.00
48	T	Methyl methacrylate	0.420	0.394	6.2	59	0.00

Sample Results: **VX044466.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044466.D
Acq On : 23 Dec 2024 08:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 23 21:50:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.007	0.0	62	0.00
50	S	Toluene-d8	1.168	1.249	-6.9	66	0.00
51	T	4-Methyl-2-Pentanone	0.556	0.519	6.7	58	0.00
52	CM	Toluene	0.853	0.904	-6.0#	68	0.00
53	T	t-1,3-Dichloropropene	0.455	0.481	-5.7	62	0.00
54	T	cis-1,3-Dichloropropene	0.507	0.551	-8.7	65	0.00
55	T	1,1,2-Trichloroethane	0.339	0.361	-6.5	67	0.00
56	T	Ethyl methacrylate	0.535	0.527	1.5	61	0.00
57	T	1,3-Dichloropropane	0.590	0.610	-3.4	66	0.00
58	T	2-Chloroethyl Vinyl ether	0.270	0.262	3.0	59	0.00
59	T	2-Hexanone	0.403	0.376	6.7	57	0.00
60	T	Dibromochloromethane	0.326	0.354	-8.6	64	0.00
61	T	1,2-Dibromoethane	0.345	0.365	-5.8	66	0.00
62	S	4-Bromofluorobenzene	0.408	0.415	-1.7	62	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	63	0.00
64	T	Tetrachloroethene	0.332	0.399	-20.2	79	0.00
65	PM	Chlorobenzene	1.071	1.145	-6.9	67	0.00
66	T	1,1,1,2-Tetrachloroethane	0.344	0.390	-13.4	66	0.00
67	C	Ethyl Benzene	1.851	1.931	-4.3#	63	0.00
68	T	m/p-Xylenes	0.679	0.747	-10.0	67	0.00
69	T	o-Xylene	0.687	0.732	-6.6	66	0.00
70	T	Styrene	1.102	1.199	-8.8	65	0.00
71	P	Bromoform	0.219	0.252	-15.1	65	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	62	0.00
73	T	Isopropylbenzene	3.828	4.164	-8.8	66	0.00
74	T	N-amyl acetate	1.769	1.706	3.6	55	0.00
75	P	1,1,2,2-Tetrachloroethane	1.329	1.384	-4.1	65	0.00
76	T	1,2,3-Trichloropropane	1.116	1.122	-0.5	62	0.00
77	T	Bromobenzene	0.928	0.983	-5.9	65	0.00
78	T	n-propylbenzene	4.231	4.705	-11.2	65	0.00
79	T	2-Chlorotoluene	2.736	2.804	-2.5	63	0.00
80	T	1,3,5-Trimethylbenzene	3.174	3.416	-7.6	64	0.00
81	T	trans-1,4-Dichloro-2-butene	0.347	0.377	-8.6	64	0.00
82	T	4-Chlorotoluene	3.030	3.211	-6.0	64	0.00
83	T	tert-Butylbenzene	3.137	3.413	-8.8	65	0.00
84	T	1,2,4-Trimethylbenzene	3.117	3.481	-11.7	66	0.00
85	T	sec-Butylbenzene	3.808	4.138	-8.7	65	0.00
86	T	p-Isopropyltoluene	3.170	3.497	-10.3	65	0.00
87	T	1,3-Dichlorobenzene	1.621	1.739	-7.3	64	0.00
88	T	1,4-Dichlorobenzene	1.667	1.793	-7.6	67	0.00
89	T	n-Butylbenzene	2.665	2.927	-9.8	64	0.00
90	T	Hexachloroethane	0.463	0.513	-10.8	63	0.00
91	T	1,2-Dichlorobenzene	1.683	1.789	-6.3	65	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.258	0.256	0.8	58	0.00
93	T	1,2,4-Trichlorobenzene	0.923	1.029	-11.5	65	0.00
94	T	Hexachlorobutadiene	0.371	0.434	-17.0	73	0.00
95	T	Naphthalene	3.603	3.798	-5.4	62	0.00

Sample Results: **VX044466.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044466.D
Acq On : 23 Dec 2024 08:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 23 21:50:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.979	1.065	-8.8	65	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VX044466.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044466.D
Acq On : 23 Dec 2024 08:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 23 21:50:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	78	0.00
2	T	Dichlorodifluoromethane	50.000	53.431	-6.9	82	0.00
3	P	Chloromethane	50.000	49.584	0.8	76	0.00
4	C	Vinyl Chloride	50.000	46.640	6.7#	71	0.00
5	T	Bromomethane	50.000	43.904	12.2	68	0.00
6	T	Chloroethane	50.000	41.487	17.0	58	0.00
7	T	Trichlorofluoromethane	50.000	42.875	14.2	66	0.00
8	T	Diethyl Ether	50.000	37.795	24.4	59	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	54.311	-8.6	84	0.00
10	T	Methyl Iodide	50.000	44.919	10.2	67	0.00
11	T	Tert butyl alcohol	250.000	72.268	71.1#	23	0.00
12	CM	1,1-Dichloroethene	50.000	50.798	-1.6#	75	0.00
13	T	Acrolein	250.000	175.615	29.8#	53	0.00
14	T	Allyl chloride	50.000	46.857	6.3	68	0.00
15	T	Acrylonitrile	250.000	234.398	6.2	70	0.00
16	T	Acetone	250.000	206.174	17.5	60	0.00
17	T	Carbon Disulfide	50.000	46.493	7.0	67	0.00
18	T	Methyl Acetate	50.000	44.867	10.3	68	0.00
19	T	Methyl tert-butyl Ether	50.000	44.056	11.9	65	0.00
20	T	Methylene Chloride	50.000	44.299	11.4	67	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.727	4.5	72	0.00
22	T	Diisopropyl ether	50.000	44.904	10.2	68	-0.01
23	T	Vinyl Acetate	250.000	233.215	6.7	65	0.00
24	P	1,1-Dichloroethane	50.000	46.032	7.9	68	0.00
25	T	2-Butanone	250.000	209.482	16.2	61	0.00
26	T	2,2-Dichloropropane	50.000	50.896	-1.8	72	0.00
27	T	cis-1,2-Dichloroethene	50.000	46.309	7.4	71	0.00
28	T	Bromochloromethane	50.000	41.140	17.7	62	0.00
29	T	Tetrahydrofuran	250.000	211.723	15.3	64	0.00
30	C	Chloroform	50.000	44.231	11.5#	68	0.00
31	T	Cyclohexane	50.000	50.934	-1.9	77	0.00
32	T	1,1,1-Trichloroethane	50.000	47.248	5.5	69	0.00
33	S	1,2-Dichloroethane-d4	50.000	41.918	16.2	62	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	66	0.00
35	S	Dibromofluoromethane	50.000	53.732	-7.5	67	0.00
36	T	1,1-Dichloropropene	50.000	55.509	-11.0	74	0.00
37	T	Ethyl Acetate	50.000	48.216	3.6	61	-0.02
38	T	Carbon Tetrachloride	50.000	55.181	-10.4	70	0.00
39	T	Methylcyclohexane	50.000	61.418	-22.8	79	0.00
40	TM	Benzene	50.000	54.397	-8.8	70	0.00
41	T	Methacrylonitrile	50.000	47.172	5.7	61	0.00
42	TM	1,2-Dichloroethane	50.000	48.161	3.7	61	-0.01
43	T	Isopropyl Acetate	50.000	47.918	4.2	60	0.00
44	TM	Trichloroethene	50.000	55.326	-10.7	71	0.00
45	C	1,2-Dichloropropane	50.000	52.281	-4.6#	68	0.00
46	T	Dibromomethane	50.000	52.402	-4.8	66	0.00
47	T	Bromodichloromethane	50.000	54.300	-8.6	66	0.00
48	T	Methyl methacrylate	50.000	46.898	6.2	59	0.00

Sample Results: **VX044466.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044466.D
Acq On : 23 Dec 2024 08:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 23 21:50:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1005.738	-0.6	62	0.00
50	S	Toluene-d8	50.000	53.468	-6.9	66	0.00
51	T	4-Methyl-2-Pentanone	250.000	233.216	6.7	58	0.00
52	CM	Toluene	50.000	52.949	-5.9#	68	0.00
53	T	t-1,3-Dichloropropene	50.000	48.256	3.5	62	0.00
54	T	cis-1,3-Dichloropropene	50.000	54.358	-8.7	65	0.00
55	T	1,1,2-Trichloroethane	50.000	53.264	-6.5	67	0.00
56	T	Ethyl methacrylate	50.000	49.194	1.6	61	0.00
57	T	1,3-Dichloropropane	50.000	51.667	-3.3	66	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	242.753	2.9	59	0.00
59	T	2-Hexanone	250.000	233.464	6.6	57	0.00
60	T	Dibromochloromethane	50.000	49.335	1.3	64	0.00
61	T	1,2-Dibromoethane	50.000	52.895	-5.8	66	0.00
62	S	4-Bromofluorobenzene	50.000	50.827	-1.7	62	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	63	0.00
64	T	Tetrachloroethene	50.000	60.182	-20.4	79	0.00
65	PM	Chlorobenzene	50.000	53.435	-6.9	67	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	56.575	-13.2	66	0.00
67	C	Ethyl Benzene	50.000	52.159	-4.3#	63	0.00
68	T	m/p-Xylenes	100.000	110.024	-10.0	67	0.00
69	T	o-Xylene	50.000	53.232	-6.5	66	0.00
70	T	Styrene	50.000	54.396	-8.8	65	0.00
71	P	Bromoform	50.000	52.112	-4.2	65	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	62	0.00
73	T	Isopropylbenzene	50.000	54.392	-8.8	66	0.00
74	T	N-amyl acetate	50.000	48.214	3.6	55	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.066	-4.1	65	0.00
76	T	1,2,3-Trichloropropane	50.000	50.267	-0.5	62	0.00
77	T	Bromobenzene	50.000	52.949	-5.9	65	0.00
78	T	n-propylbenzene	50.000	55.610	-11.2	65	0.00
79	T	2-Chlorotoluene	50.000	51.245	-2.5	63	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.807	-7.6	64	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	48.538	2.9	64	0.00
82	T	4-Chlorotoluene	50.000	52.988	-6.0	64	0.00
83	T	tert-Butylbenzene	50.000	54.400	-8.8	65	0.00
84	T	1,2,4-Trimethylbenzene	50.000	55.839	-11.7	66	0.00
85	T	sec-Butylbenzene	50.000	54.332	-8.7	65	0.00
86	T	p-Isopropyltoluene	50.000	55.162	-10.3	65	0.00
87	T	1,3-Dichlorobenzene	50.000	53.639	-7.3	64	0.00
88	T	1,4-Dichlorobenzene	50.000	53.777	-7.6	67	0.00
89	T	n-Butylbenzene	50.000	54.910	-9.8	64	0.00
90	T	Hexachloroethane	50.000	55.398	-10.8	63	0.00
91	T	1,2-Dichlorobenzene	50.000	53.130	-6.3	65	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.558	0.9	58	0.00
93	T	1,2,4-Trichlorobenzene	50.000	55.746	-11.5	65	0.00
94	T	Hexachlorobutadiene	50.000	58.407	-16.8	73	0.00
95	T	Naphthalene	50.000	52.712	-5.4	62	0.00

Sample Results: **VX044466.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044466.D
Acq On : 23 Dec 2024 08:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 23 21:50:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	54.418	-8.8	65	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VX044492.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/23/2024 19:49

Lab File ID: VX044492.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.700		-9.44	50
Chloromethane	0.739	0.678	0.1	-8.25	50
Vinyl Chloride	0.770	0.689		-10.52	50
Bromomethane	0.546	0.468		-14.29	50
Chloroethane	0.480	0.442		-7.92	50
Trichlorofluoromethane	1.508	1.069		-29.11	50
1,1,2-Trichlorotrifluoroethane	0.610	0.551		-9.67	50
1,1-Dichloroethene	0.560	0.531		-5.18	50
Acetone	0.357	0.251		-29.69	50
Carbon Disulfide	1.065	0.983		-7.7	50
Methyl tert-butyl Ether	2.187	1.845		-15.64	50
Methyl Acetate	0.922	0.733		-20.5	50
Methylene Chloride	0.671	0.623		-7.15	50
trans-1,2-Dichloroethene	0.596	0.544		-8.73	50
1,1-Dichloroethane	1.172	1.059	0.1	-9.64	50
Cyclohexane	0.946	0.810		-14.38	50
2-Butanone	0.508	0.382		-24.8	50
Carbon Tetrachloride	0.482	0.477		-1.04	50
cis-1,2-Dichloroethene	0.756	0.679		-10.19	50
Bromochloromethane	0.575	0.456		-20.7	50
Chloroform	1.316	1.143		-13.15	50
1,1,1-Trichloroethane	1.093	0.986		-9.79	50
Methylcyclohexane	0.535	0.537		0.37	50
Benzene	1.359	1.392		2.43	50
1,2-Dichloroethane	0.560	0.534		-4.64	50
Trichloroethene	0.339	0.355		4.72	50
1,2-Dichloropropane	0.347	0.352		1.44	50
Bromodichloromethane	0.465	0.489		5.16	50
4-Methyl-2-Pentanone	0.556	0.477		-14.21	50
Toluene	0.853	0.862		1.05	50
t-1,3-Dichloropropene	0.455	0.469		3.08	50
cis-1,3-Dichloropropene	0.507	0.529		4.34	50
1,1,2-Trichloroethane	0.339	0.347		2.36	50
2-Hexanone	0.403	0.346		-14.14	50
Dibromochloromethane	0.326	0.351		7.67	50
1,2-Dibromoethane	0.345	0.357		3.48	50
Tetrachloroethene	0.332	0.362		9.04	50
Chlorobenzene	1.071	1.103	0.3	2.99	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5317 SAS No.: P5317 SDG No.: P5317

Instrument ID: MSVOA_X Calibration Date/Time: 12/23/2024 19:49

Lab File ID: VX044492.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.878		1.46	50
m/p-Xylenes	0.679	0.714		5.16	50
o-Xylene	0.687	0.708		3.06	50
Styrene	1.102	1.181		7.17	50
Bromoform	0.219	0.245	0.1	11.87	50
Isopropylbenzene	3.828	3.728		-2.61	50
1,1,2,2-Tetrachloroethane	1.329	1.216	0.3	-8.5	50
1,3-Dichlorobenzene	1.621	1.672		3.15	50
1,4-Dichlorobenzene	1.667	1.677		0.6	50
1,2-Dichlorobenzene	1.684	1.667		-1.01	50
1,2-Dibromo-3-Chloropropane	0.258	0.216		-16.28	50
1,2,4-Trichlorobenzene	0.923	0.999		8.23	50
1,2,3-Trichlorobenzene	0.979	1.021		4.29	50
1,2-Dichloroethane-d4	0.877	0.643		-26.68	50
Dibromofluoromethane	0.346	0.316		-8.67	50
Toluene-d8	1.168	1.039		-11.05	50
4-Bromofluorobenzene	0.408	0.358		-12.26	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Sample Results: **VX044492.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044492.D
Acq On : 23 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

Quant Time: Dec 23 22:16:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	142062	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	233398	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	200491	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	97321	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	91340	36.671	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	73.340%#		
35) Dibromofluoromethane	5.379	113	73837	45.677	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.360%		
50) Toluene-d8	8.647	98	242389	44.446	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	88.900%		
62) 4-Bromofluorobenzene	11.079	95	83671	43.908	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	87.820%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	99403	45.252	ug/l	99
3) Chloromethane	1.295	50	96315	45.851	ug/l	100
4) Vinyl Chloride	1.374	62	97827	44.703	ug/l	100
5) Bromomethane	1.593	94	66434	42.791	ug/l	98
6) Chloroethane	1.666	64	62749	46.048	ug/l	99
7) Trichlorofluoromethane	1.874	101	151860	35.446	ug/l	98
8) Diethyl Ether	2.130	74	57535	39.343	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	78265	45.146	ug/l	92
10) Methyl Iodide	2.447	142	114488	50.107	ug/l	94
11) Tert butyl alcohol	2.996	59	70521	200.889	ug/l	98
12) 1,1-Dichloroethene	2.313	96	75484	47.404	ug/l	91
13) Acrolein	2.233	56	92120	181.285	ug/l	99
14) Allyl chloride	2.660	41	118303	44.605	ug/l	98
15) Acrylonitrile	3.063	53	200626	206.319	ug/l	99
16) Acetone	2.380	43	178267	175.552	ug/l	97
17) Carbon Disulfide	2.508	76	139644	46.135	ug/l	100
18) Methyl Acetate	2.703	43	104075	39.750	ug/l	94
19) Methyl tert-butyl Ether	3.111	73	262040	42.170	ug/l	98
20) Methylene Chloride	2.782	84	88543	46.423	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	77251	45.648	ug/l	93
22) Diisopropyl ether	3.758	45	259272	43.412	ug/l	95
23) Vinyl Acetate	3.715	43	1084781	223.409	ug/l	98
24) 1,1-Dichloroethane	3.605	63	150456	45.194	ug/l	99
25) 2-Butanone	4.556	43	271591	188.131	ug/l	98
26) 2,2-Dichloropropane	4.471	77	119970	44.358	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	96440	44.871	ug/l	95
28) Bromochloromethane	4.892	49	64763	39.671	ug/l	94
29) Tetrahydrofuran	5.001	42	173821	187.586	ug/l	98
30) Chloroform	5.093	83	162393	43.416	ug/l	98
31) Cyclohexane	5.458	56	115044	42.794	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	140086	45.118	ug/l	99
36) 1,1-Dichloropropene	5.684	75	101604	48.625	ug/l	98
37) Ethyl Acetate	4.715	43	109126	42.249	ug/l	97
38) Carbon Tetrachloride	5.672	117	111385	49.513	ug/l	98
39) Methylcyclohexane	7.373	83	125247	50.139	ug/l	96
40) Benzene	6.032	78	325004	51.229	ug/l	100

Sample Results: **VX044492.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044492.D
Acq On : 23 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 23 22:16:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	58306	42.511	ug/l		96
42) 1,2-Dichloroethane	6.080	62	124536	47.653	ug/l		98
43) Isopropyl Acetate	6.336	43	177770	44.034	ug/l		97
44) Trichloroethene	7.117	130	82827	52.353	ug/l		98
45) 1,2-Dichloropropane	7.428	63	82109	50.659	ug/l		99
46) Dibromomethane	7.580	93	64127	50.998	ug/l		94
47) Bromodichloromethane	7.818	83	114072	52.527	ug/l		98
48) Methyl methacrylate	7.690	41	85907	43.837	ug/l		96
49) 1,4-Dioxane	7.665	88	31930	982.728	ug/l		92
51) 4-Methyl-2-Pentanone	8.574	43	556283	214.305	ug/l		98
52) Toluene	8.714	92	201289	50.524	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	109547	47.186	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	123531	52.242	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	80941	51.140	ug/l		98
56) Ethyl methacrylate	9.116	69	118479	47.418	ug/l		97
57) 1,3-Dichloropropane	9.305	76	134913	48.972	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	263448	209.048	ug/l		98
59) 2-Hexanone	9.427	43	403537	214.776	ug/l		99
60) Dibromochloromethane	9.519	129	81910	48.943	ug/l		99
61) 1,2-Dibromoethane	9.604	107	83250	51.675	ug/l		96
64) Tetrachloroethene	9.269	164	72600	54.558	ug/l		96
65) Chlorobenzene	10.080	112	221119	51.470	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	75407	54.615	ug/l		99
67) Ethyl Benzene	10.189	91	376573	50.731	ug/l		99
68) m/p-Xylenes	10.299	106	286106	105.040	ug/l		94
69) o-Xylene	10.640	106	142004	51.527	ug/l		94
70) Styrene	10.653	104	236734	53.584	ug/l		95
71) Bromoform	10.799	173	49054	50.746	ug/l	#	99
73) Isopropylbenzene	10.958	105	362803	48.696	ug/l		100
74) N-amyl acetate	10.842	43	152291	44.229	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	118300	45.716	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	95824m	44.099	ug/l		
77) Bromobenzene	11.195	156	91156	50.455	ug/l		94
78) n-propylbenzene	11.299	91	412127	50.048	ug/l		98
79) 2-Chlorotoluene	11.360	91	251412	47.209	ug/l		98
80) 1,3,5-Trimethylbenzene	11.445	105	300384	48.618	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	30857	41.730	ug/l		95
82) 4-Chlorotoluene	11.451	91	283625	48.094	ug/l		97
83) tert-Butylbenzene	11.713	119	306541	50.203	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	305617	50.368	ug/l		98
85) sec-Butylbenzene	11.890	105	367512	49.579	ug/l		99
86) p-Isopropyltoluene	12.006	119	309480	50.162	ug/l		98
87) 1,3-Dichlorobenzene	11.963	146	162721	51.562	ug/l		98
88) 1,4-Dichlorobenzene	12.037	146	163225	50.314	ug/l		97
89) n-Butylbenzene	12.329	91	259880	50.094	ug/l		99
90) Hexachloroethane	12.536	117	46945	52.126	ug/l		91
91) 1,2-Dichlorobenzene	12.335	146	162236	49.511	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21028	41.860	ug/l		88
93) 1,2,4-Trichlorobenzene	13.585	180	97256	54.137	ug/l		99
94) Hexachlorobutadiene	13.719	225	40220	55.660	ug/l		99
95) Naphthalene	13.774	128	321843	45.897	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	99323	52.126	ug/l		98

Sample Results: **VX044492.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044492.D
Acq On : 23 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

Quant Time: Dec 23 22:16:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VX044492.D**

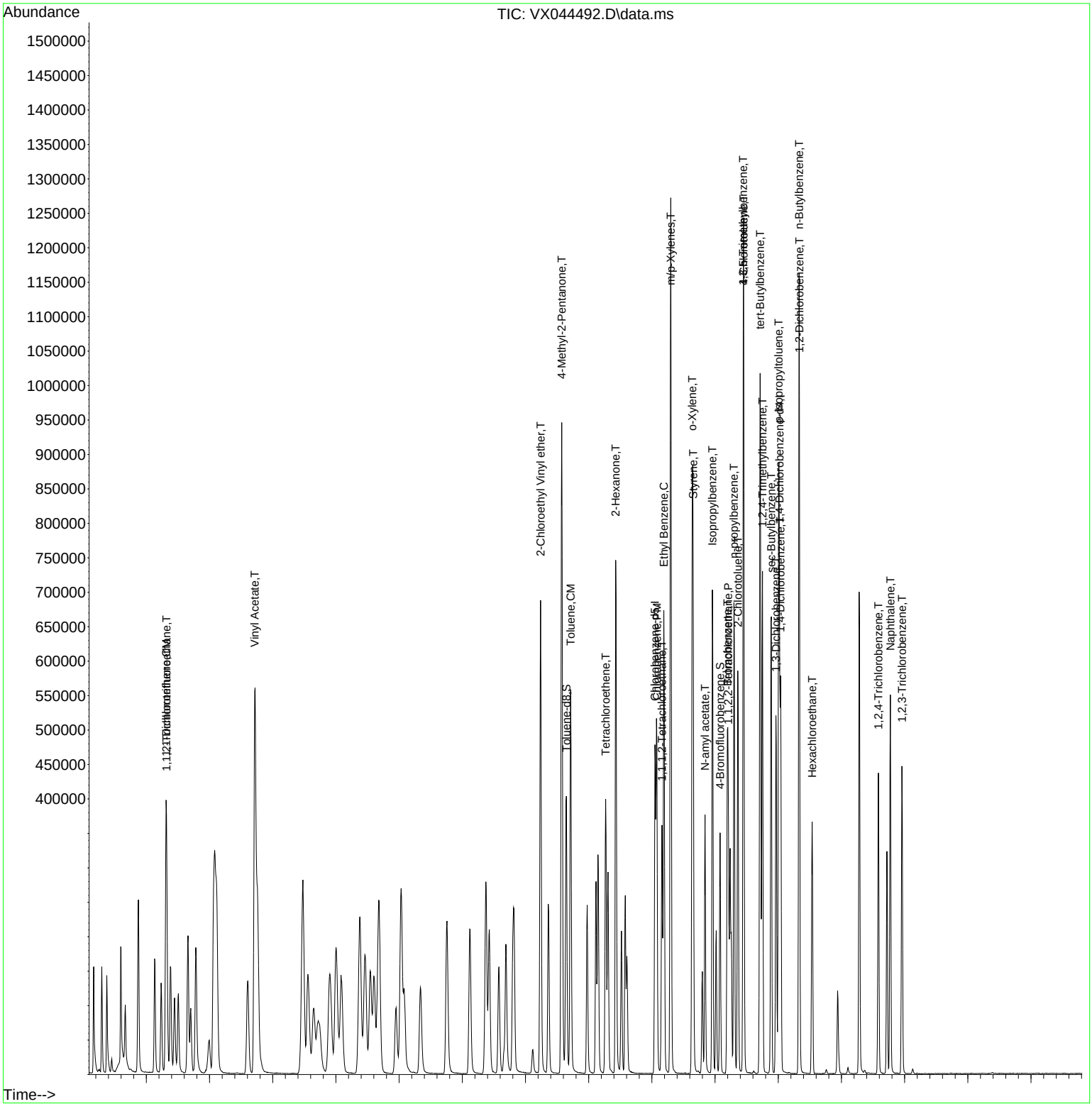
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044492.D
Acq On : 23 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

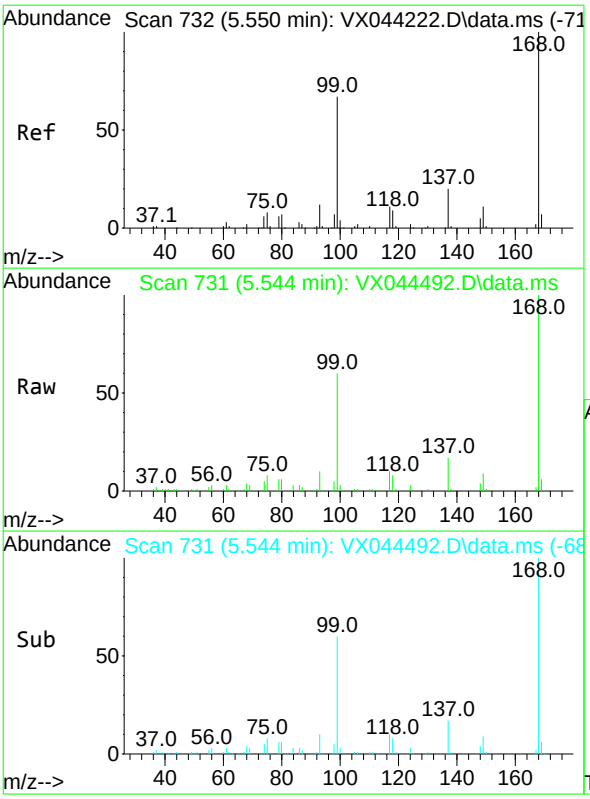
Quant Time: Dec 23 22:16:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

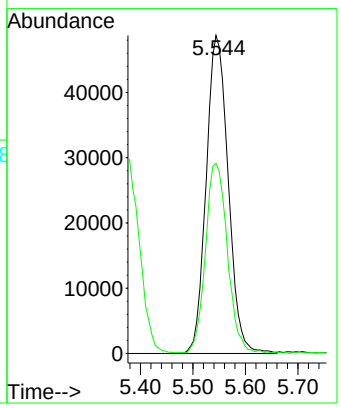




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:168 Resp: 142062

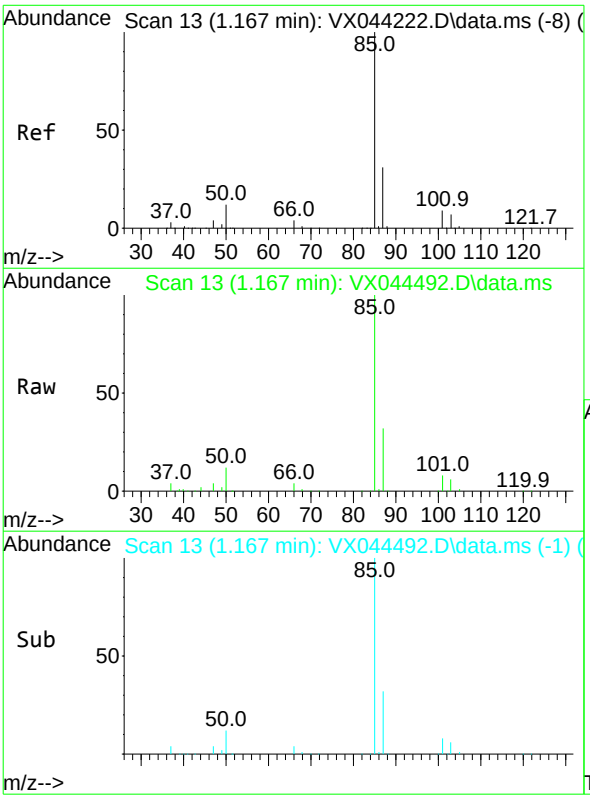
Ion	Ratio	Lower	Upper
168	100		
99	59.6	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

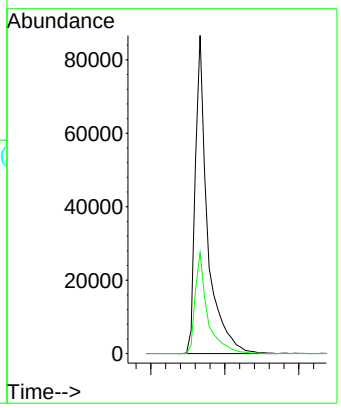
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

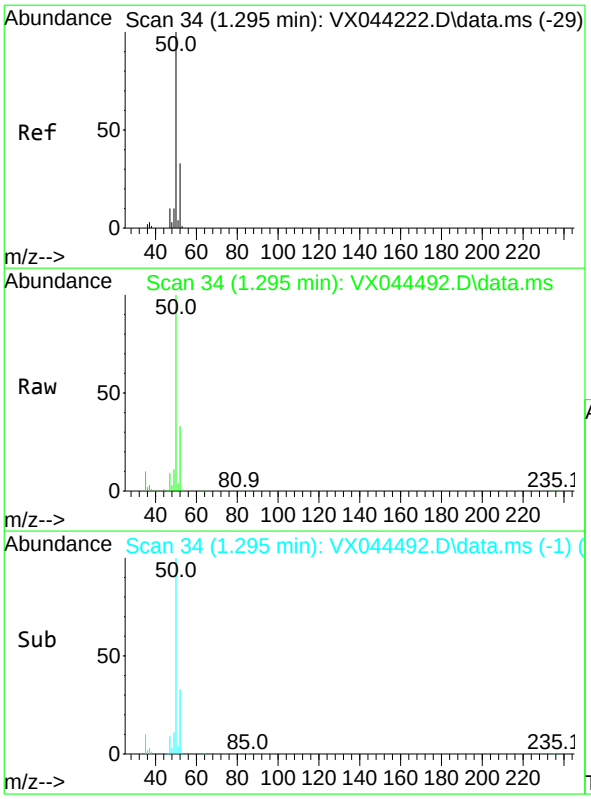


#2
Dichlorodifluoromethane
Concen: 45.252 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 85 Resp: 99403

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.4	46.4

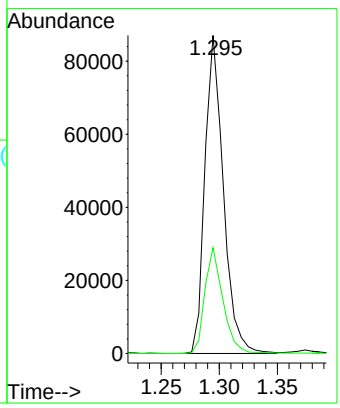




#3
Chloromethane
Concen: 45.851 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 50 Resp: 96315

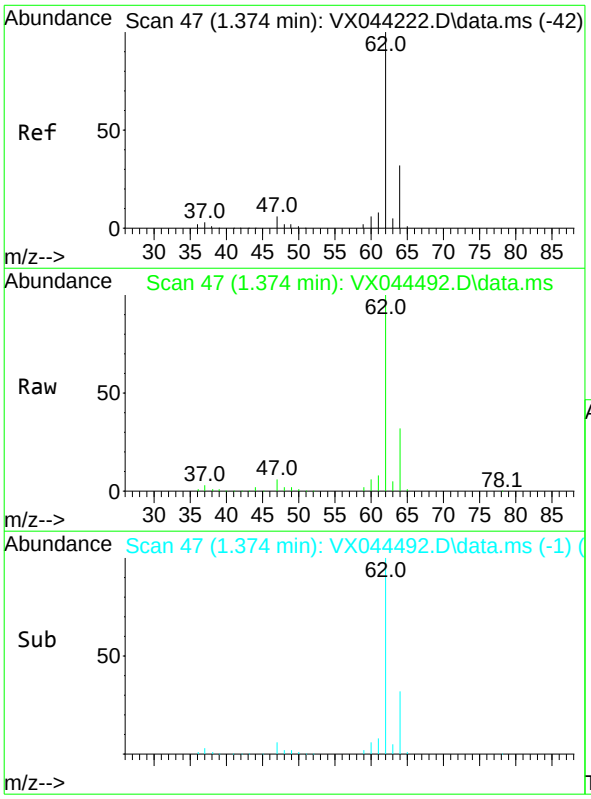
Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

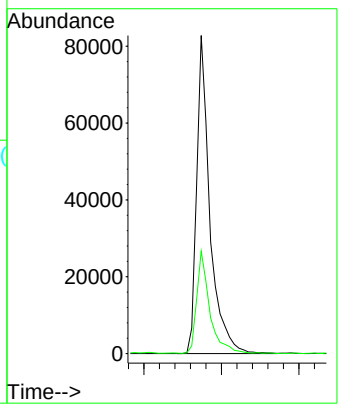
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

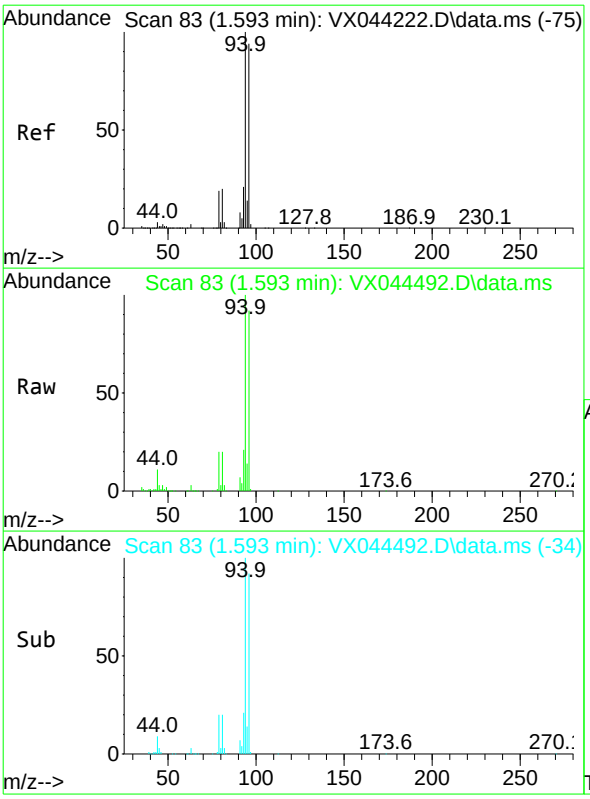


#4
Vinyl Chloride
Concen: 44.703 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 62 Resp: 97827

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.7	38.5

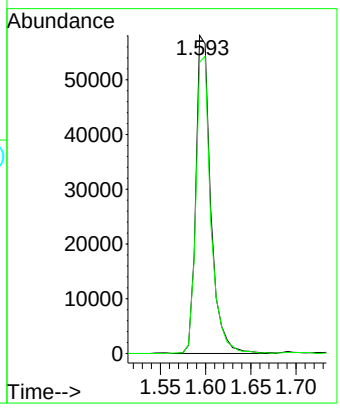




#5
Bromomethane
Concen: 42.791 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 94 Resp: 66434

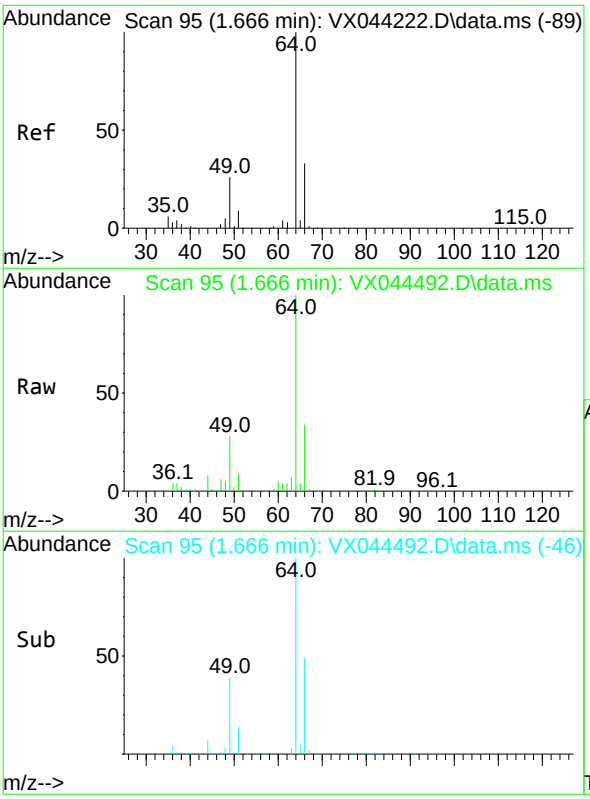
Ion	Ratio	Lower	Upper
94	100		
96	91.4	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

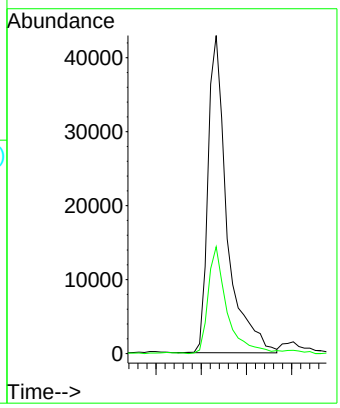
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

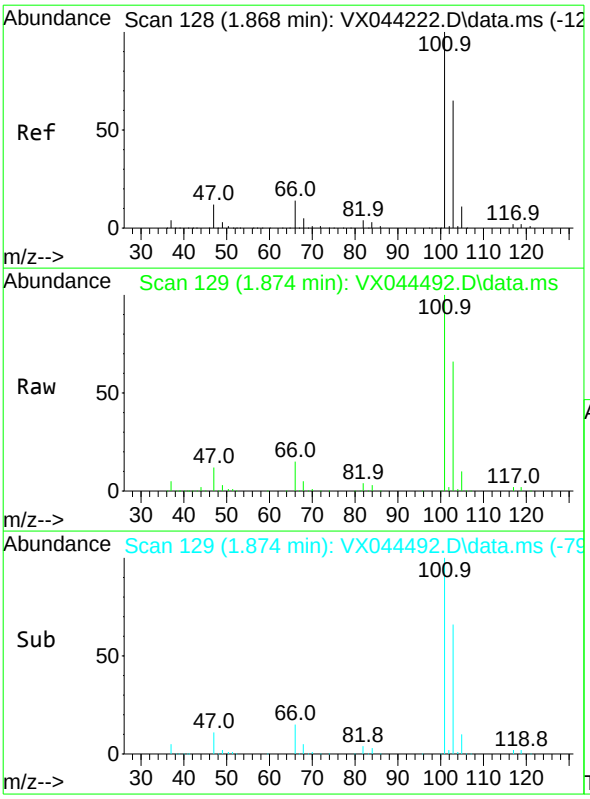


#6
Chloroethane
Concen: 46.048 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 64 Resp: 62749

Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.6	39.8

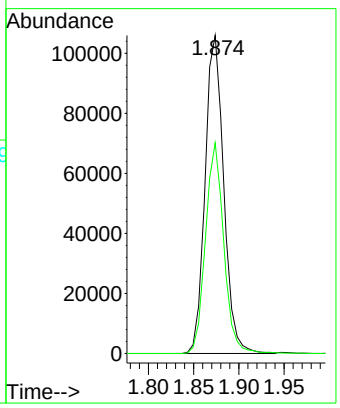




#7
Trichlorofluoromethane
Concen: 35.446 ug/l
RT: 1.874 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:101 Resp: 151860

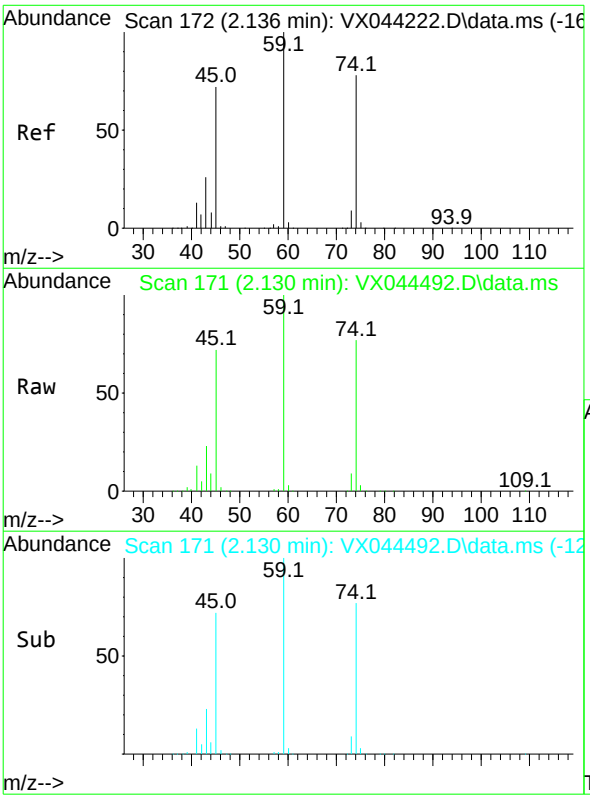
Ion	Ratio	Lower	Upper
101	100		
103	66.2	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

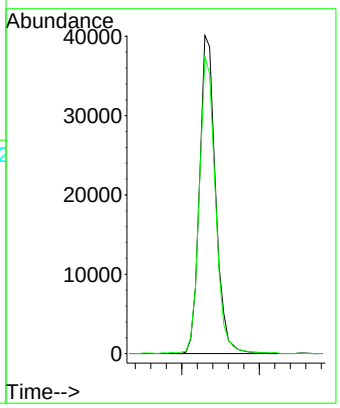
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

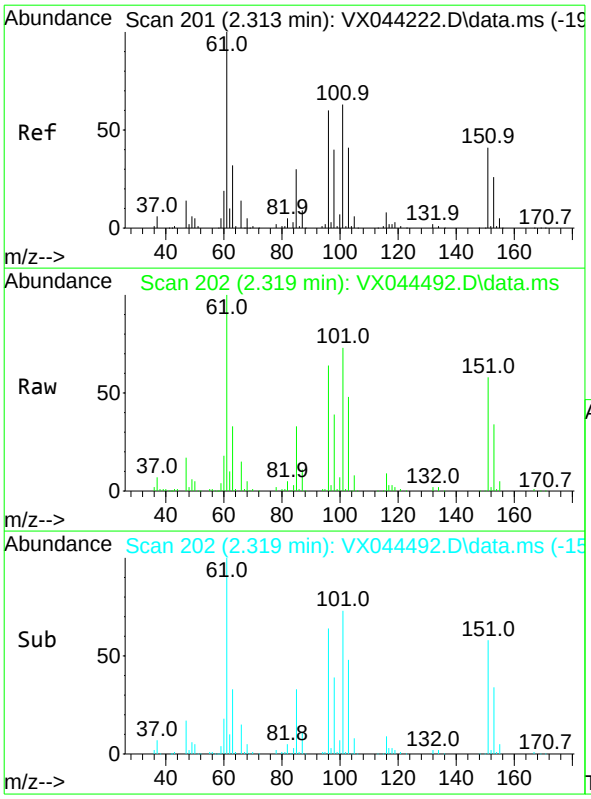


#8
Diethyl Ether
Concen: 39.343 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 74 Resp: 57535

Ion	Ratio	Lower	Upper
74	100		
45	94.4	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.146 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

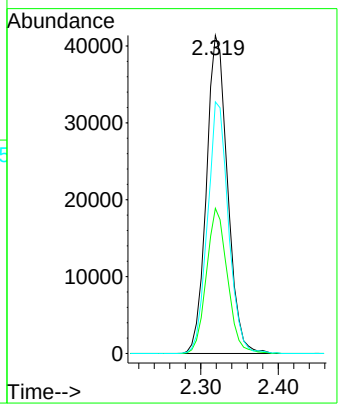
Tgt Ion:101 Resp: 78265

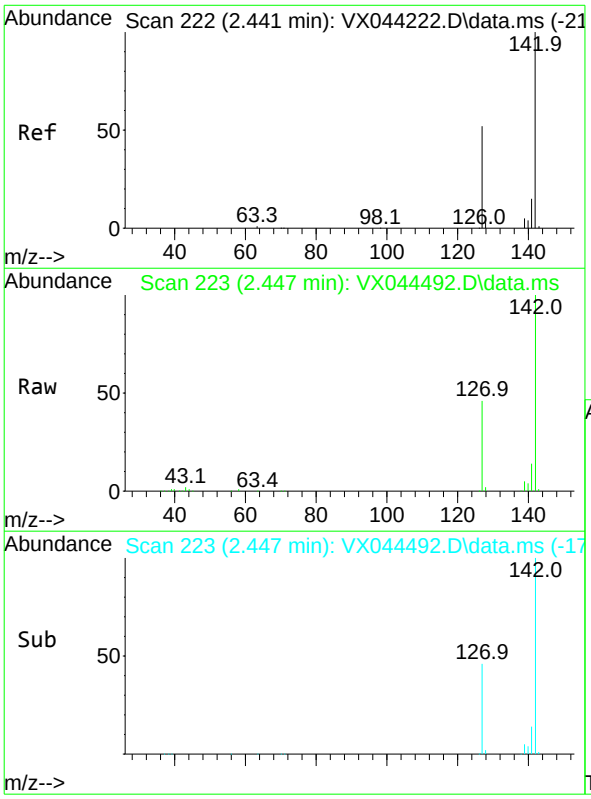
Ion	Ratio	Lower	Upper
101	100		
85	45.3	38.5	57.7
151	78.3	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

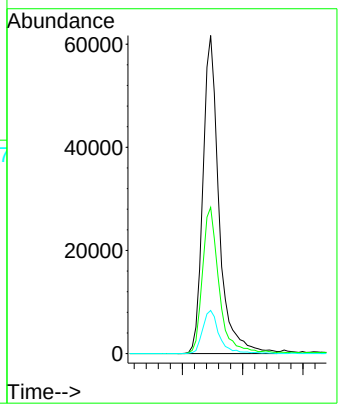


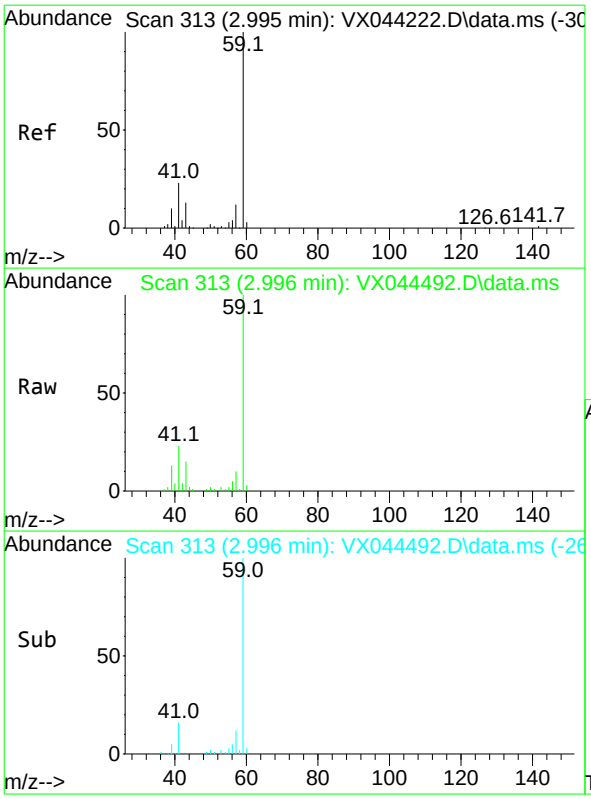


#10
Methyl Iodide
Concen: 50.107 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:142 Resp: 114488

Ion	Ratio	Lower	Upper
142	100		
127	47.2	41.8	62.8
141	14.1	11.5	17.3

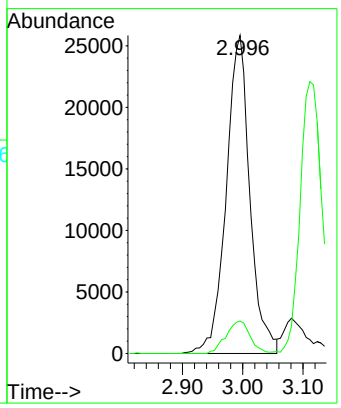




#11
Tert butyl alcohol
Concen: 200.889 ug/l
RT: 2.996 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 59 Resp: 70521

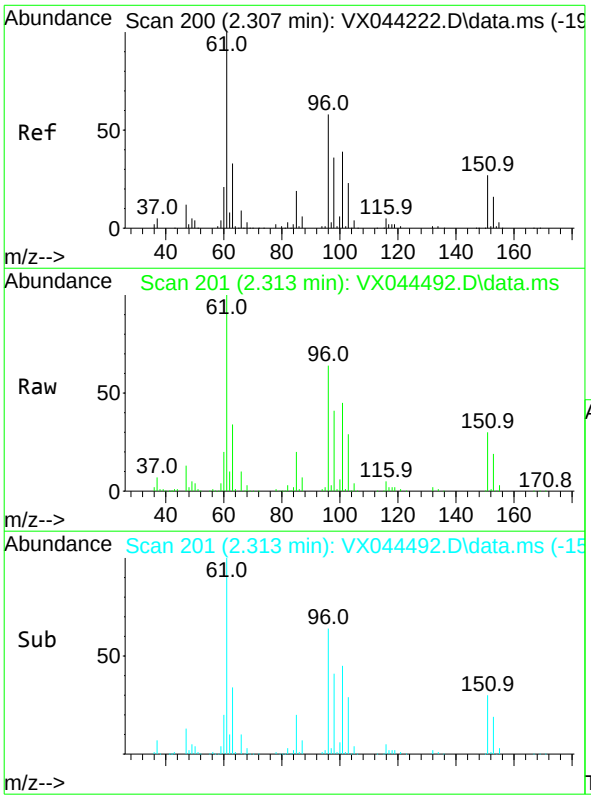
Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

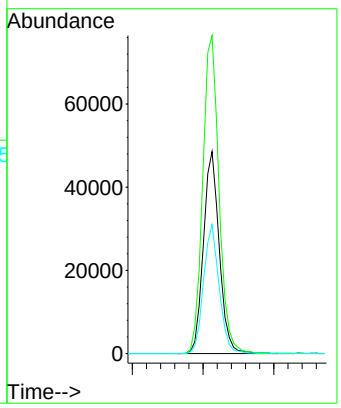
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

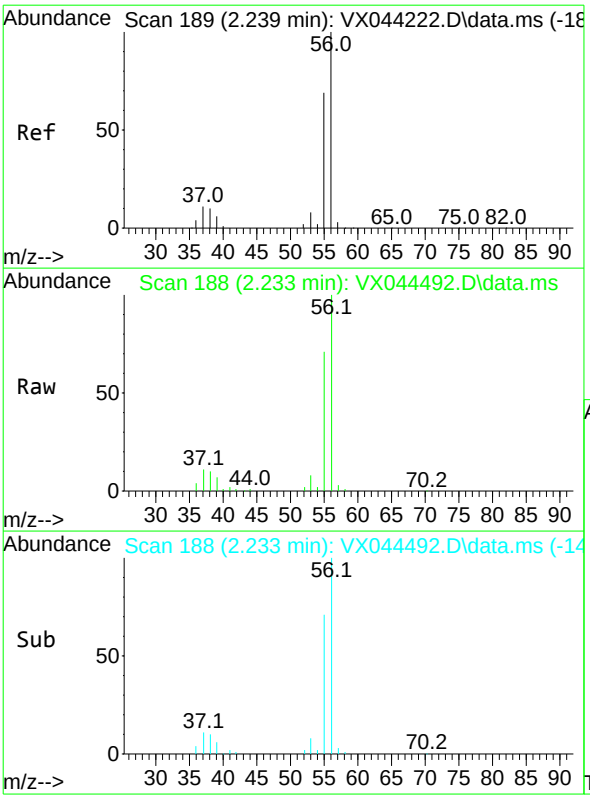


#12
1,1-Dichloroethene
Concen: 47.404 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 96 Resp: 75484

Ion	Ratio	Lower	Upper
96	100		
61	157.4	138.0	207.0
98	63.9	50.0	75.0





#13
Acrolein
Concen: 181.285 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

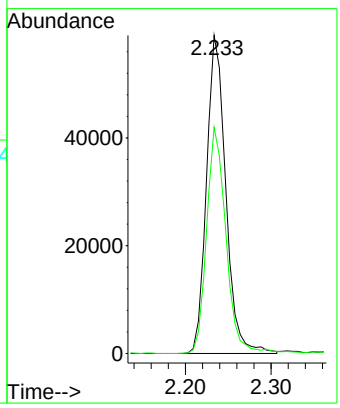
Tgt Ion: 56 Resp: 92120

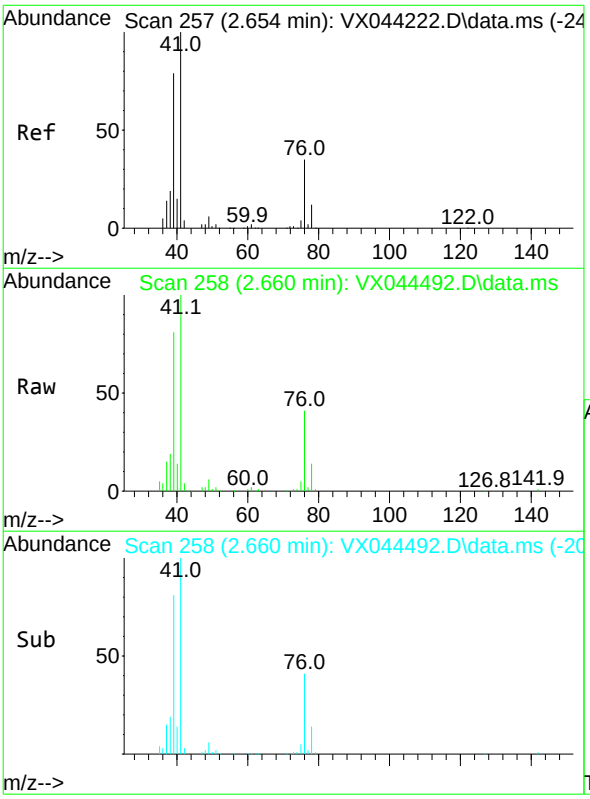
Ion	Ratio	Lower	Upper
56	100		
55	71.8	56.6	84.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

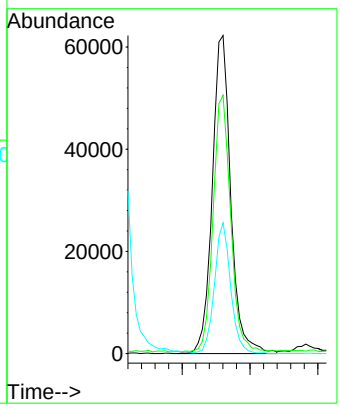


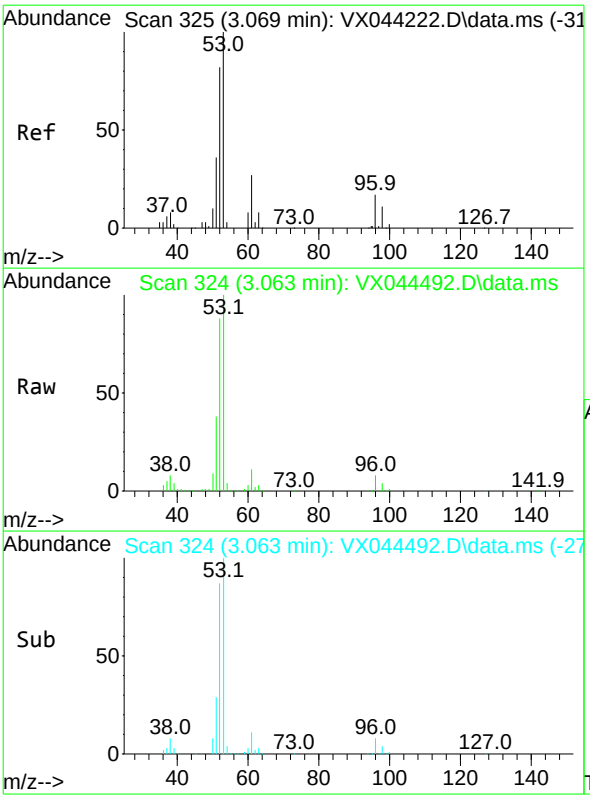


#14
Allyl chloride
Concen: 44.605 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 41 Resp: 118303

Ion	Ratio	Lower	Upper
41	100		
39	76.1	61.9	92.9
76	36.0	27.4	41.2

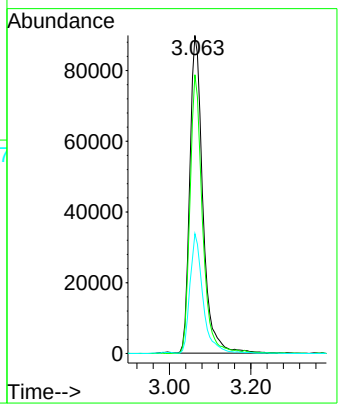




#15
Acrylonitrile
Concen: 206.319 ug/l
RT: 3.063 min Scan# 32
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 53 Resp: 200626

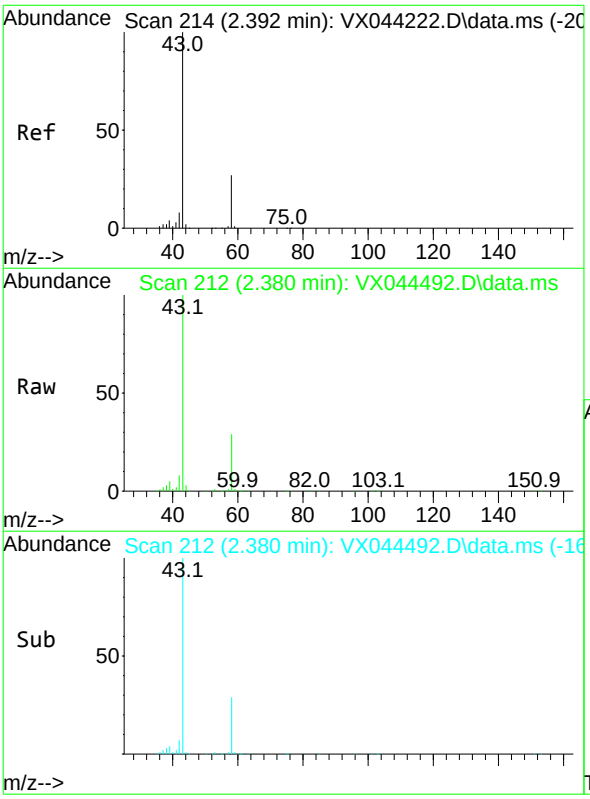
Ion	Ratio	Lower	Upper
53	100		
52	83.5	67.4	101.0
51	37.1	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

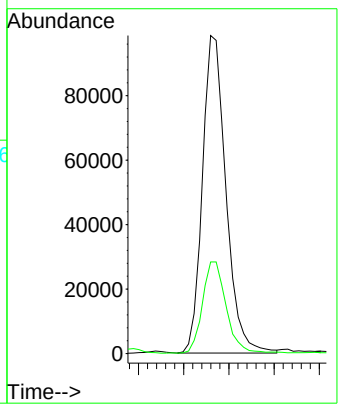
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

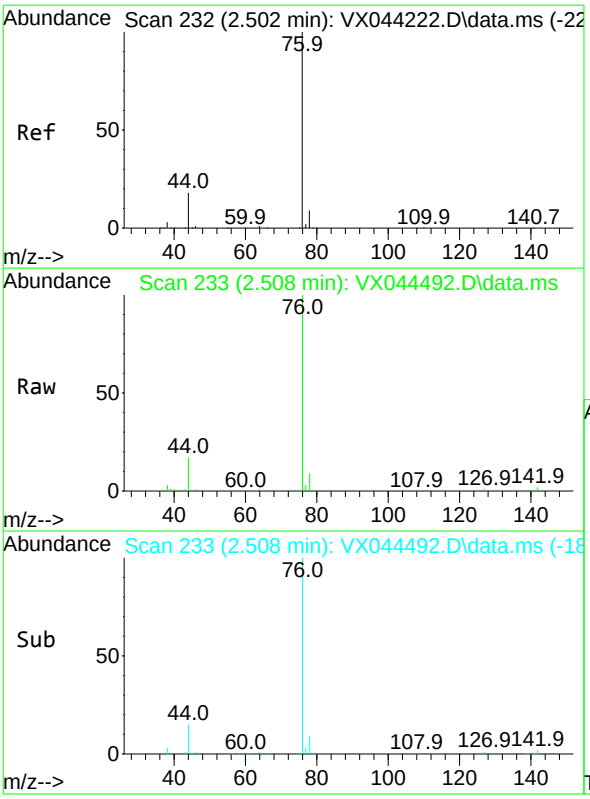


#16
Acetone
Concen: 175.552 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.012 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 43 Resp: 178267

Ion	Ratio	Lower	Upper
43	100		
58	28.7	21.6	32.4

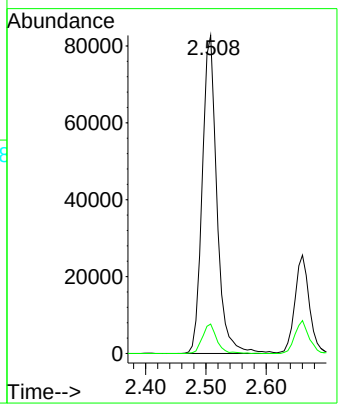




#17
Carbon Disulfide
Concen: 46.135 ug/l
RT: 2.508 min Scan# 23
Delta R.T. 0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 76 Resp: 139644

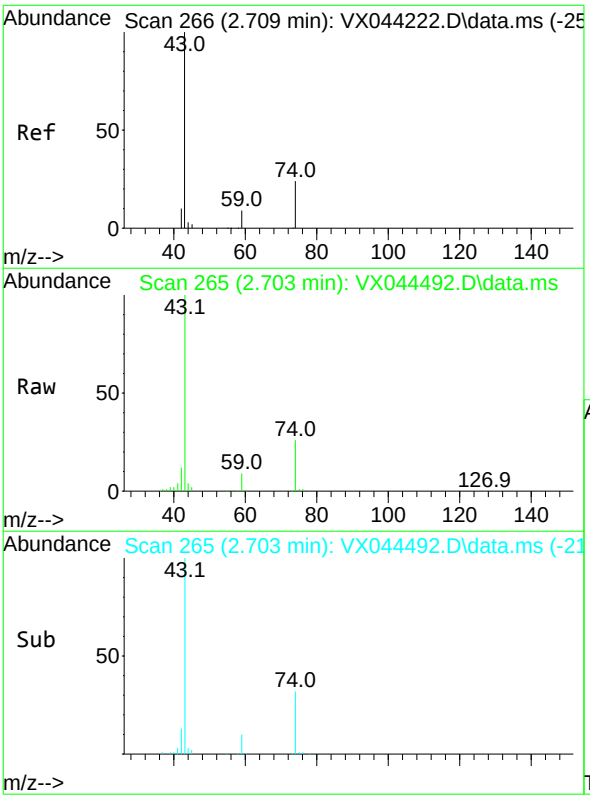
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

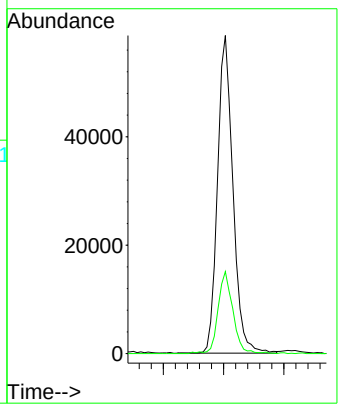
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

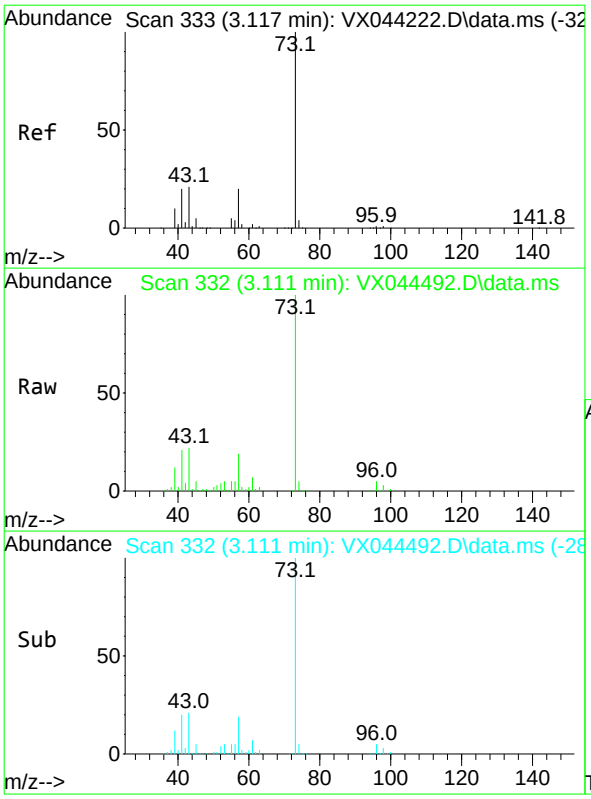


#18
Methyl Acetate
Concen: 39.750 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 43 Resp: 104075

Ion	Ratio	Lower	Upper
43	100		
74	24.9	17.7	26.5

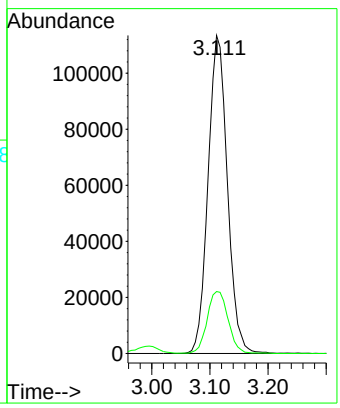




#19
Methyl tert-butyl Ether
Concen: 42.170 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 73 Resp: 262040

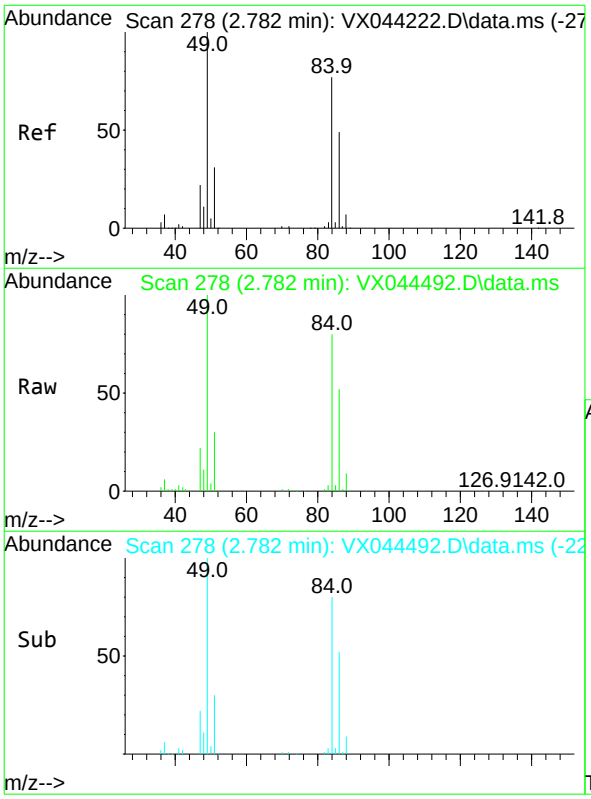
Ion	Ratio	Lower	Upper
73	100		
57	19.5	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

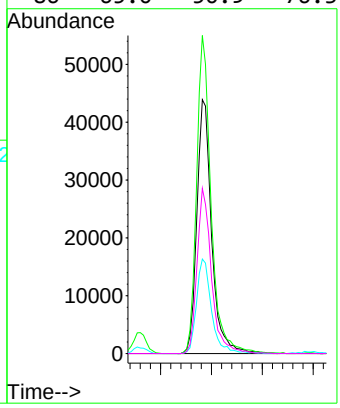
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

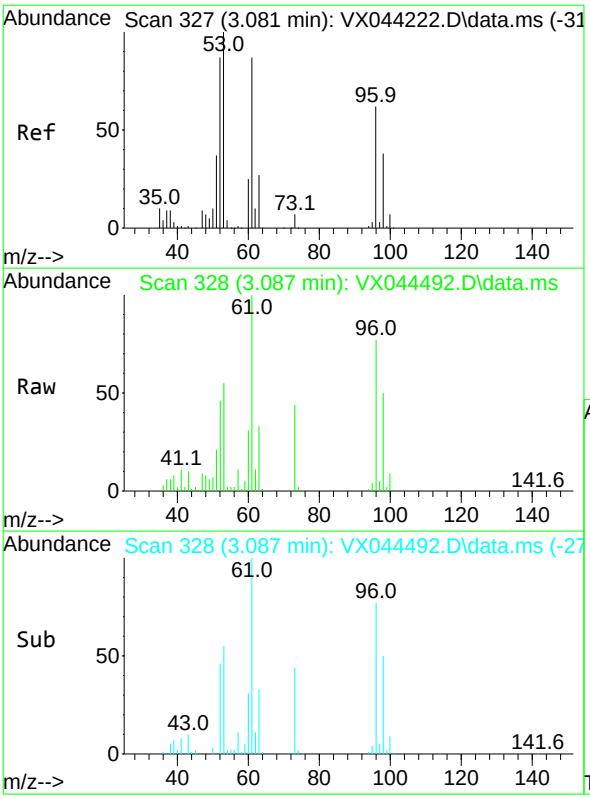


#20
Methylene Chloride
Concen: 46.423 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 84 Resp: 88543

Ion	Ratio	Lower	Upper
84	100		
49	125.3	104.2	156.4
51	37.2	32.2	48.4
86	65.0	50.9	76.3





#21
trans-1,2-Dichloroethene
Concen: 45.648 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

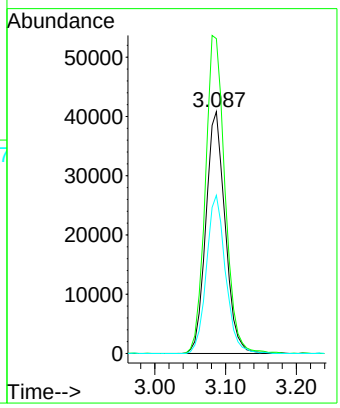
Tgt Ion: 96 Resp: 77251

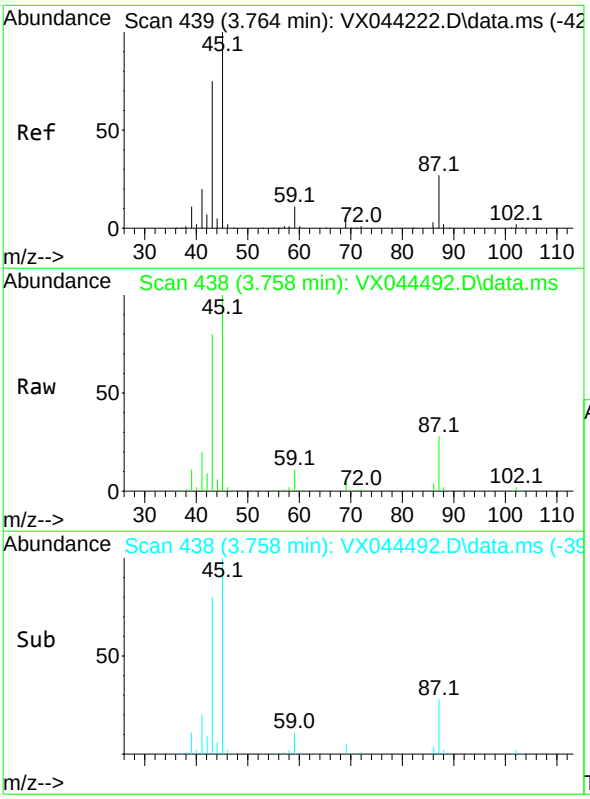
Ion	Ratio	Lower	Upper
96	100		
61	130.2	112.0	168.0
98	65.4	48.8	73.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

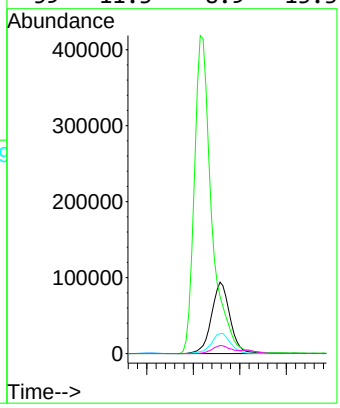


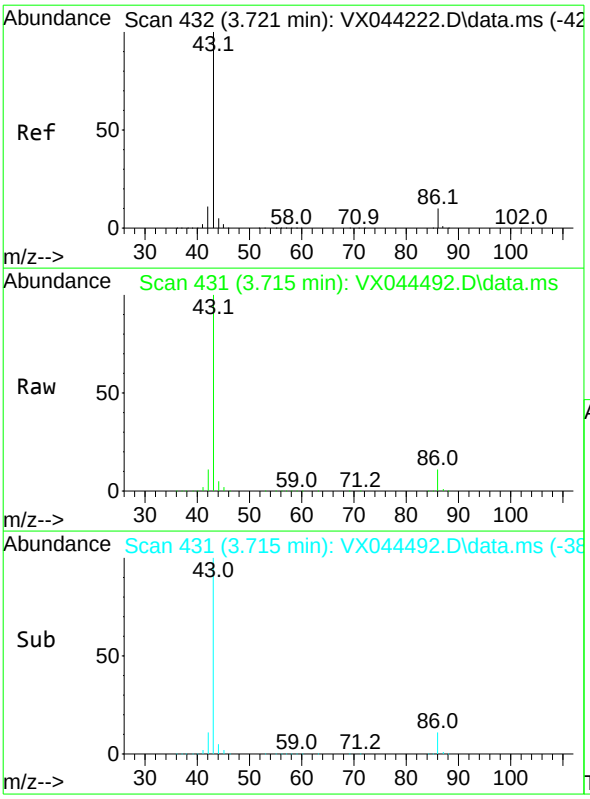


#22
Diisopropyl ether
Concen: 43.412 ug/l
RT: 3.758 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 45 Resp: 259272

Ion	Ratio	Lower	Upper
45	100		
43	80.2	60.2	90.2
87	27.9	21.2	31.8
59	11.3	8.9	13.3





#23
Vinyl Acetate
Concen: 223.409 ug/l
RT: 3.715 min Scan# 43
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

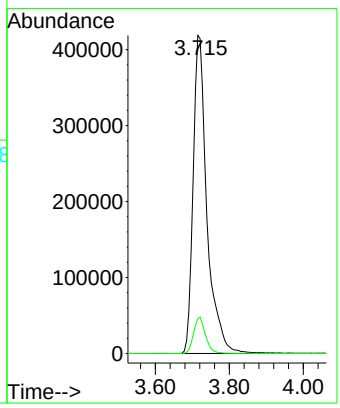
Tgt Ion: 43 Resp: 1084781

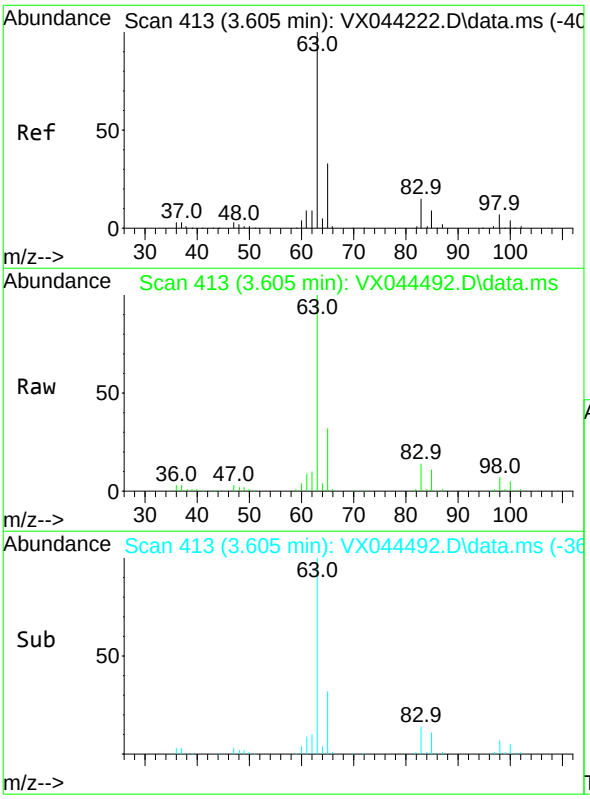
Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.2	12.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

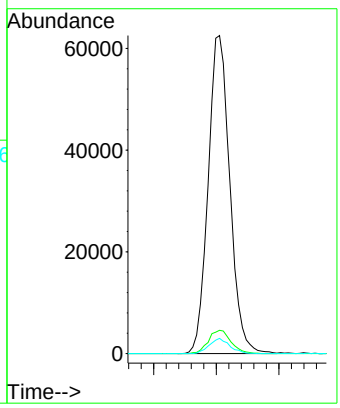


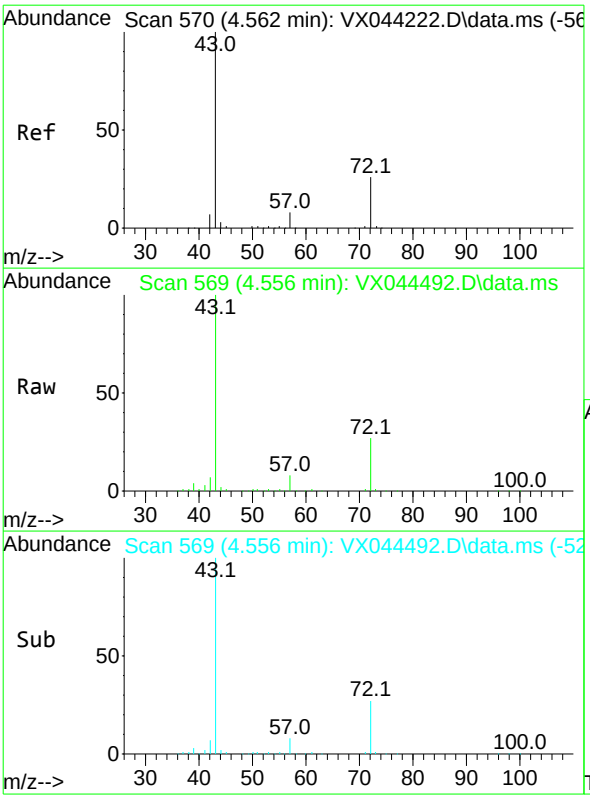


#24
1,1-Dichloroethane
Concen: 45.194 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 63 Resp: 150456

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.6	10.8
100	4.8	2.1	6.3

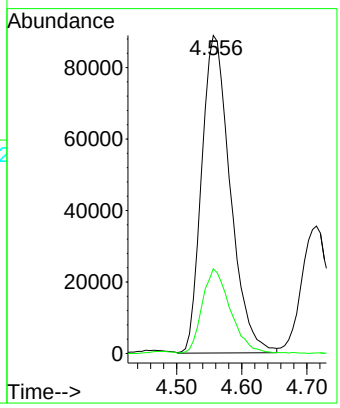




#25
2-Butanone
Concen: 188.131 ug/l
RT: 4.556 min Scan# 56
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 43 Resp: 271591

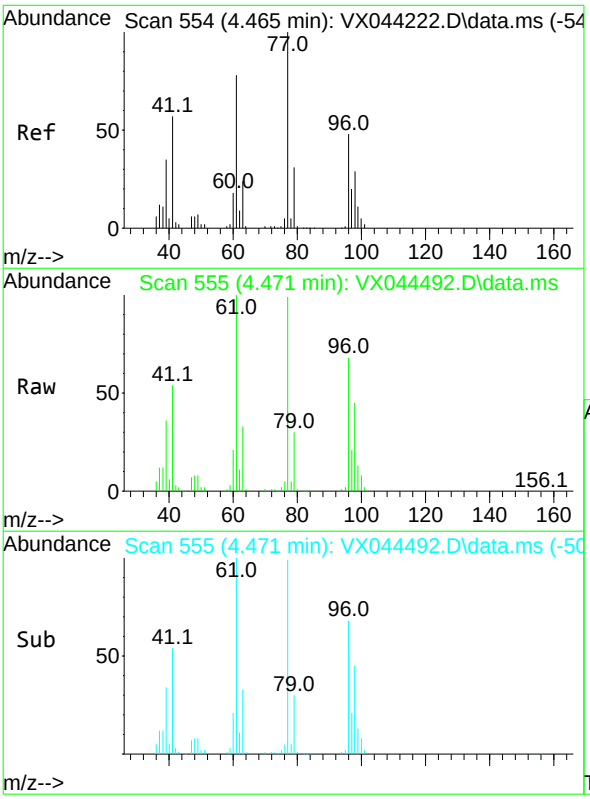
Ion	Ratio	Lower	Upper
43	100		
72	26.5	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

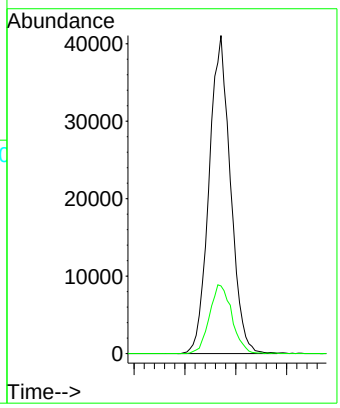
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

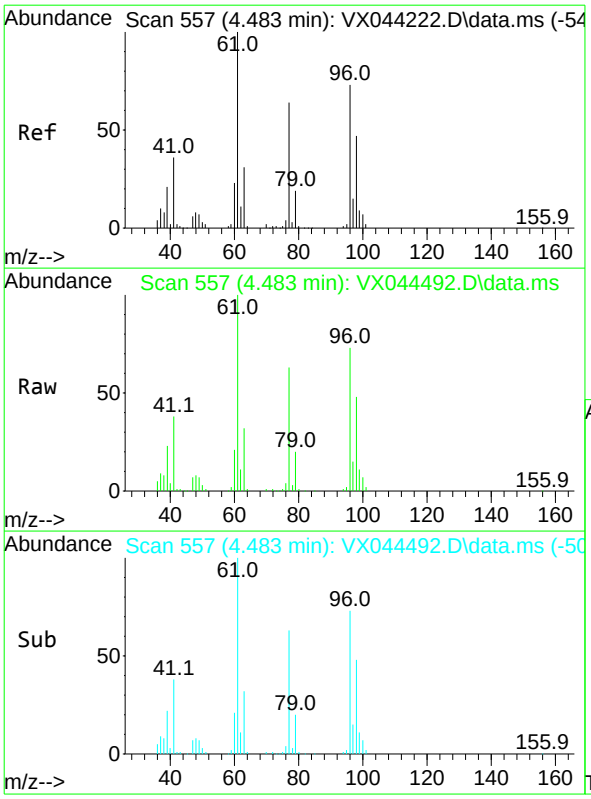


#26
2,2-Dichloropropane
Concen: 44.358 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 77 Resp: 119970

Ion	Ratio	Lower	Upper
77	100		
97	22.6	10.7	32.1





#27
cis-1,2-Dichloroethene
Concen: 44.871 ug/l
RT: 4.483 min Scan# 55
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

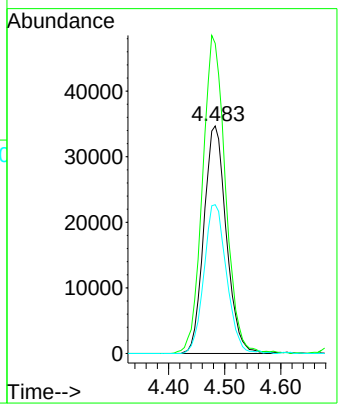
Tgt Ion: 96 Resp: 96440

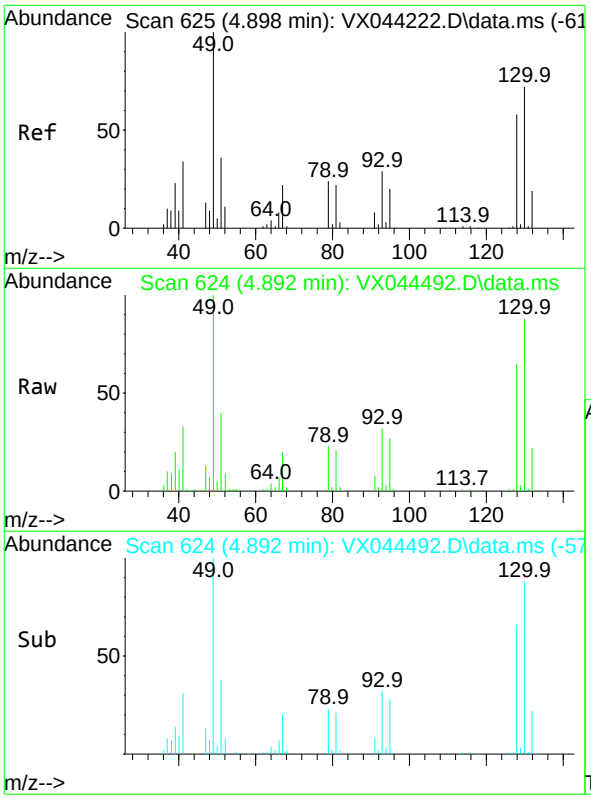
Ion	Ratio	Lower	Upper
96	100		
61	142.1	0.0	299.0
98	66.0	0.0	129.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

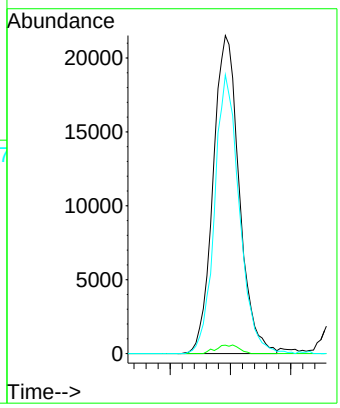


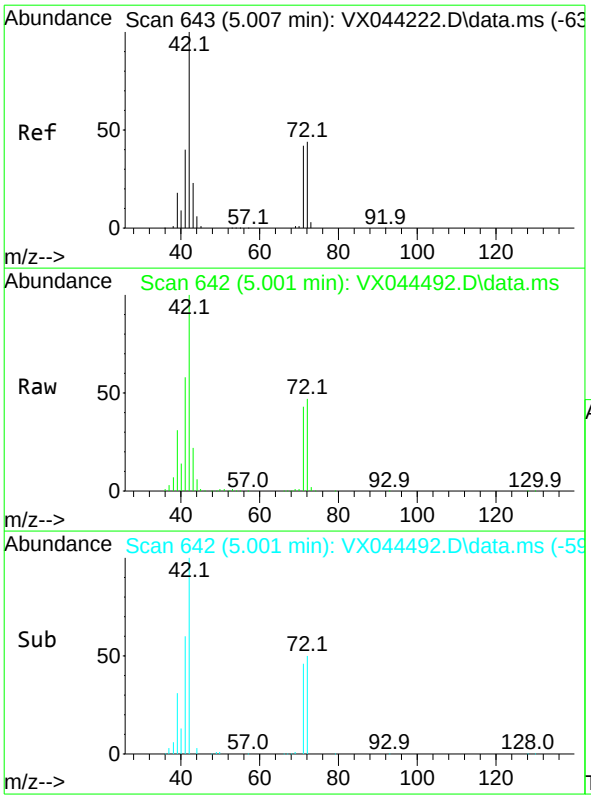


#28
Bromochloromethane
Concen: 39.671 ug/l
RT: 4.892 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 49 Resp: 64763

Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.2
130	83.3	62.1	93.1





#29
Tetrahydrofuran
Concen: 187.586 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

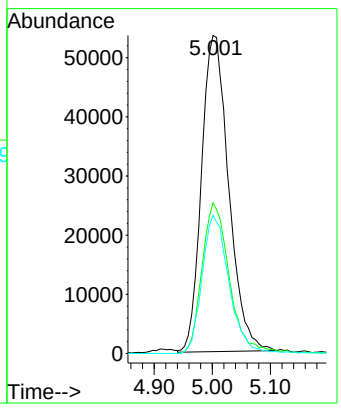
Tgt Ion: 42 Resp: 173821

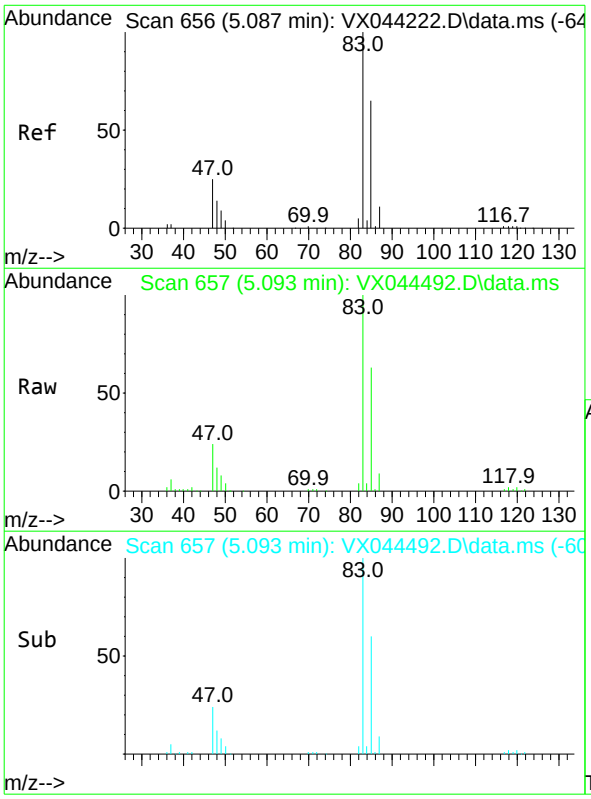
Ion	Ratio	Lower	Upper
42	100		
72	48.0	37.0	55.6
71	43.3	33.6	50.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

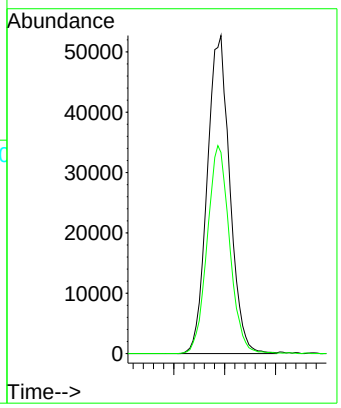


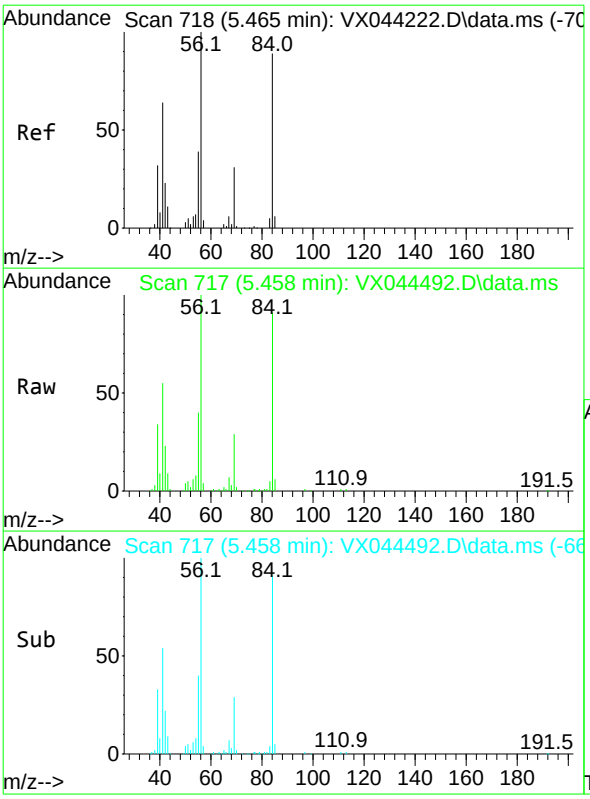


#30
Chloroform
Concen: 43.416 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 83 Resp: 162393

Ion	Ratio	Lower	Upper
83	100		
85	63.2	51.6	77.4





#31
Cyclohexane
Concen: 42.794 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

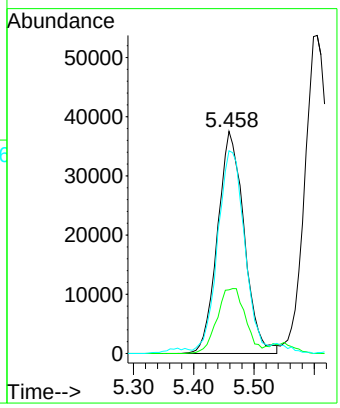
Tgt Ion: 56 Resp: 115044

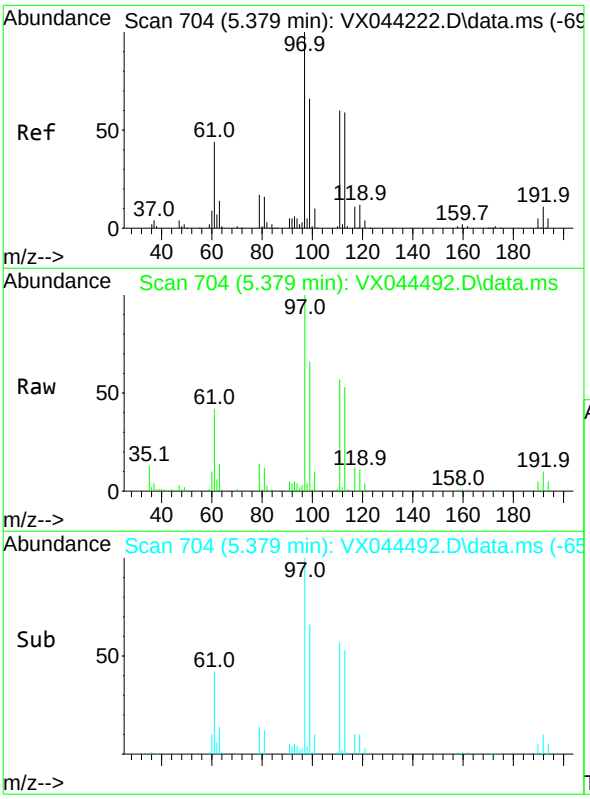
Ion	Ratio	Lower	Upper
56	100		
69	28.7	24.7	37.1
84	88.9	71.0	106.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

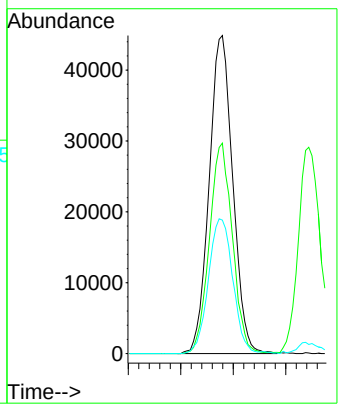


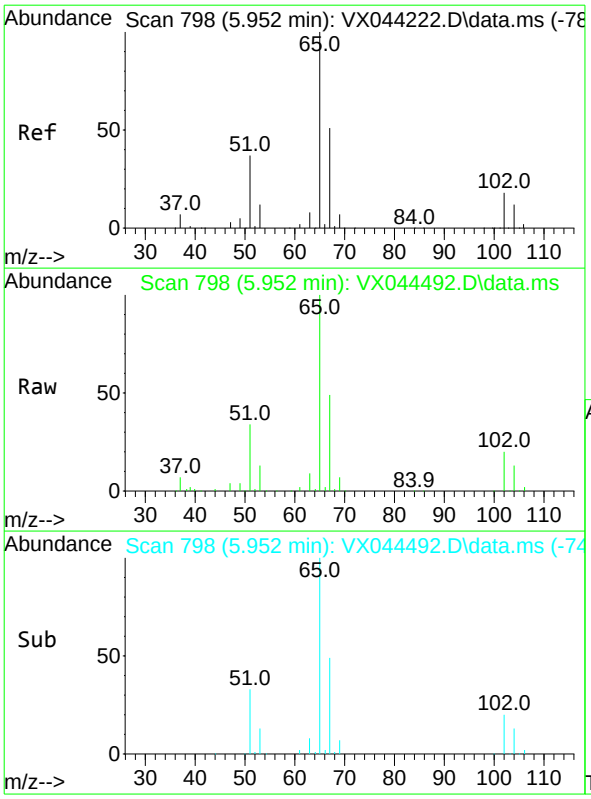


#32
1,1,1-Trichloroethane
Concen: 45.118 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 97 Resp: 140086

Ion	Ratio	Lower	Upper
97	100		
99	64.5	50.8	76.2
61	43.9	35.2	52.8

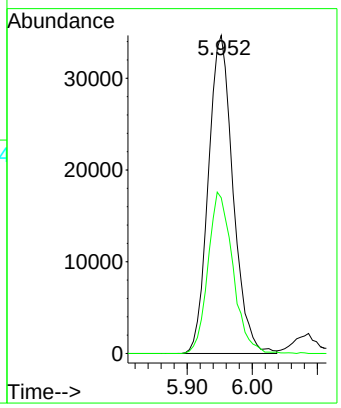




#33
1,2-Dichloroethane-d4
Concen: 36.671 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 65 Resp: 91340

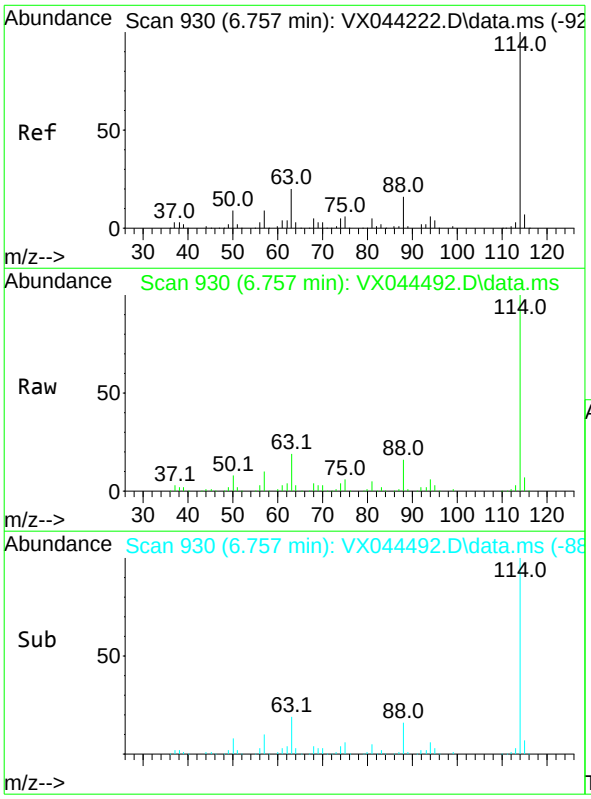
Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

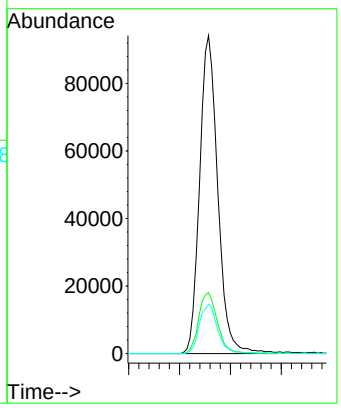
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

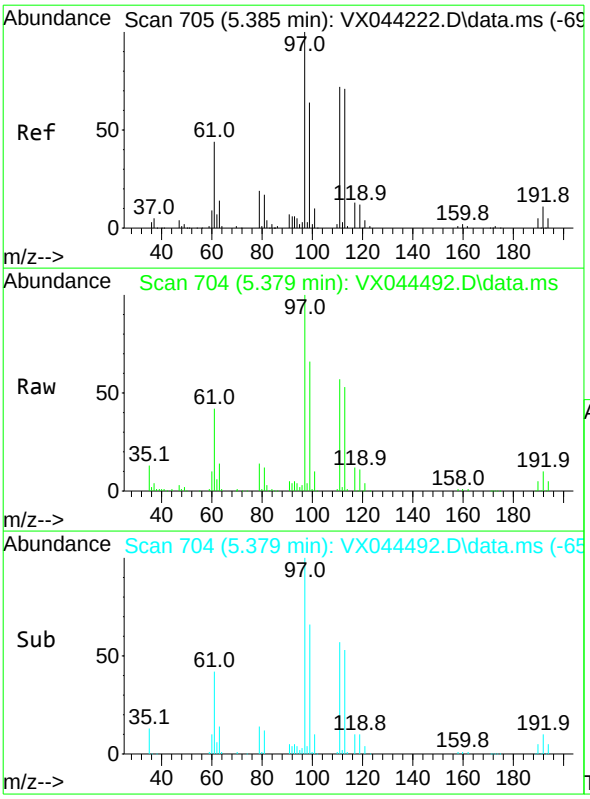


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:114 Resp: 233398

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	40.6
88	15.6	0.0	31.8





#35
Dibromofluoromethane
Concen: 45.677 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

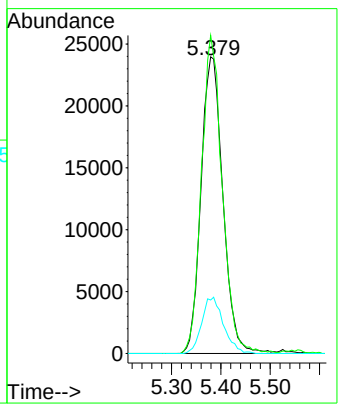
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

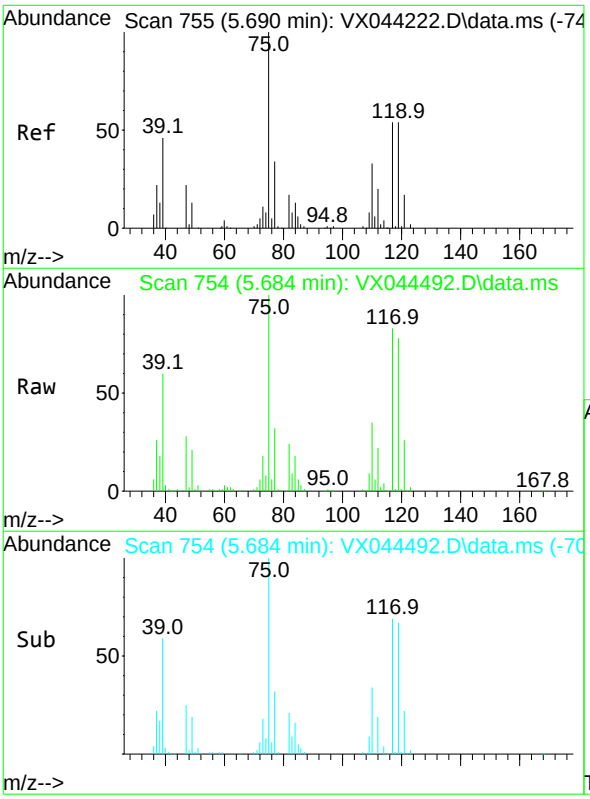
Tgt Ion:113 Resp: 73837

Ion	Ratio	Lower	Upper
113	100		
111	102.2	80.4	120.6
192	18.9	13.3	19.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

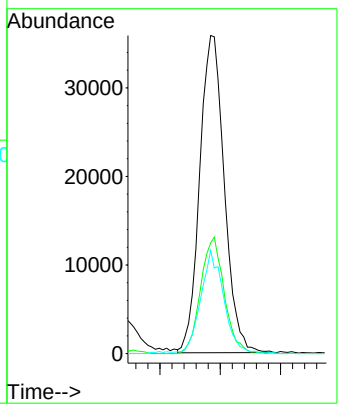


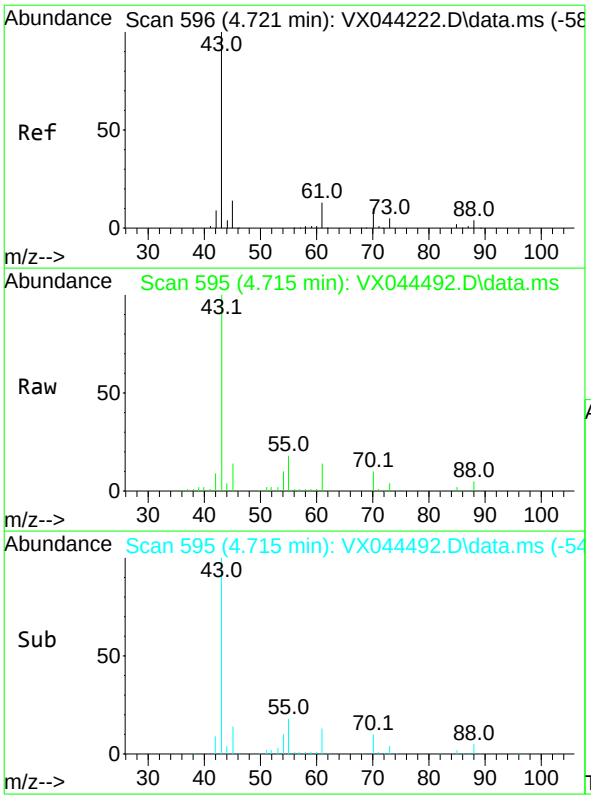


#36
1,1-Dichloropropene
Concen: 48.625 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 75 Resp: 101604

Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.3	51.7
77	29.8	25.4	38.0





#37
Ethyl Acetate
Concen: 42.249 ug/l
RT: 4.715 min Scan# 59
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

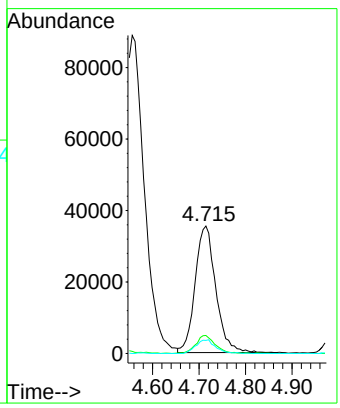
Tgt Ion: 43 Resp: 109126

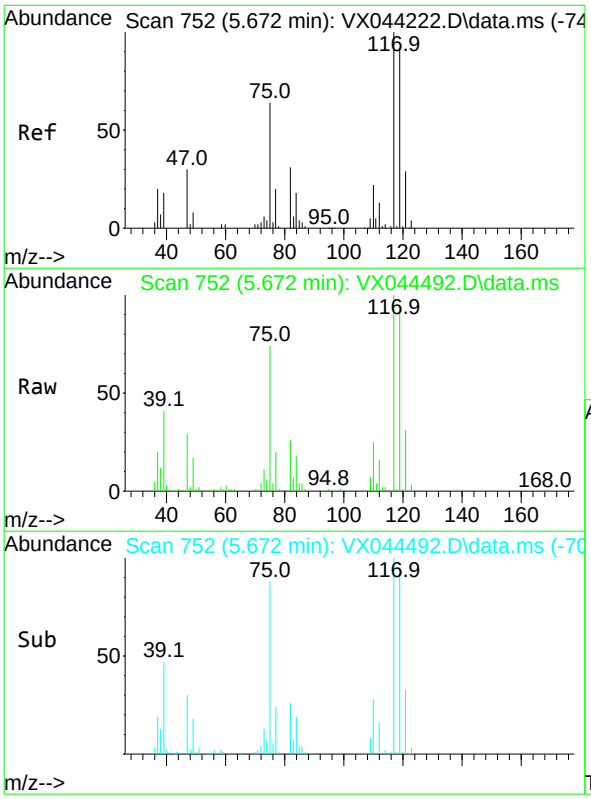
Ion	Ratio	Lower	Upper
43	100		
61	13.5	9.8	14.8
70	10.3	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

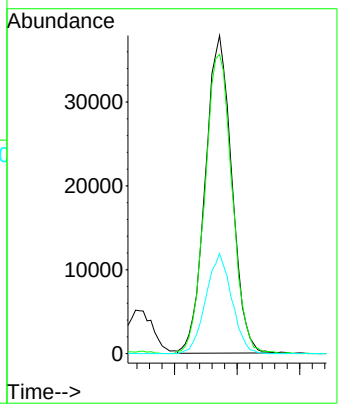


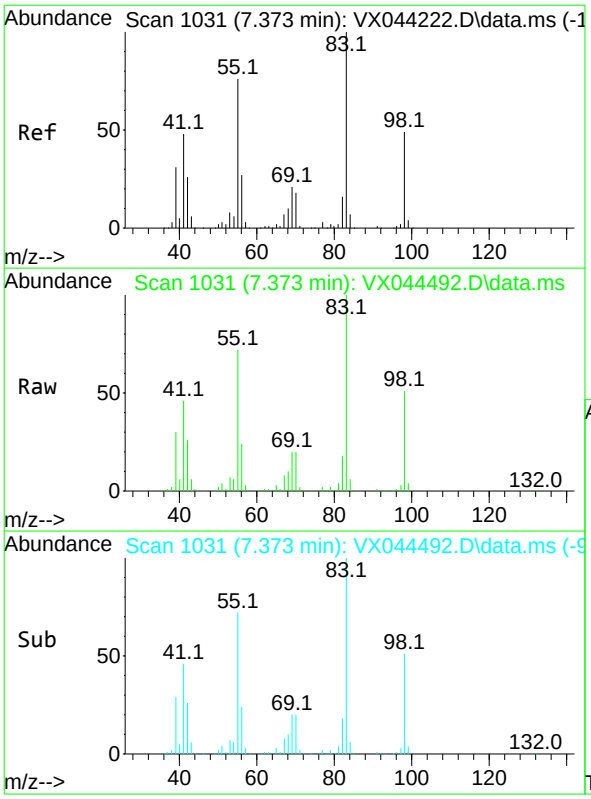


#38
Carbon Tetrachloride
Concen: 49.513 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:117 Resp: 111385

Ion	Ratio	Lower	Upper
117	100		
119	94.0	74.2	111.4
121	31.6	23.0	34.6

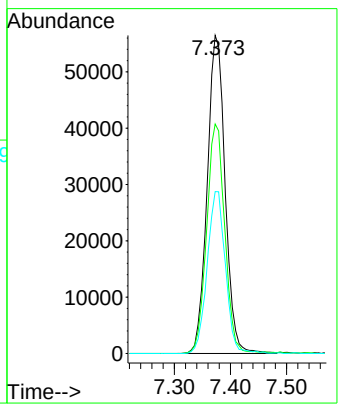




#39
Methylcyclohexane
Concen: 50.139 ug/l
RT: 7.373 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 83 Resp: 125247

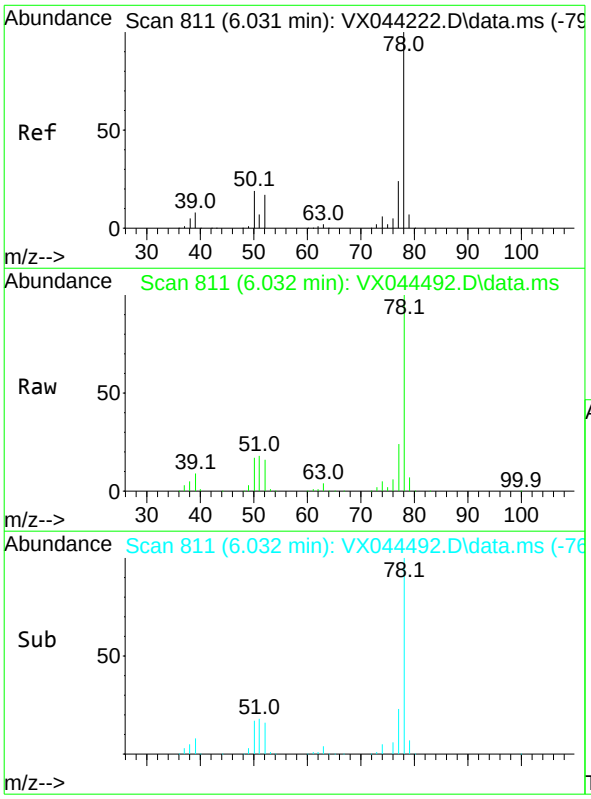
Ion	Ratio	Lower	Upper
83	100		
55	72.2	60.7	91.1
98	50.9	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

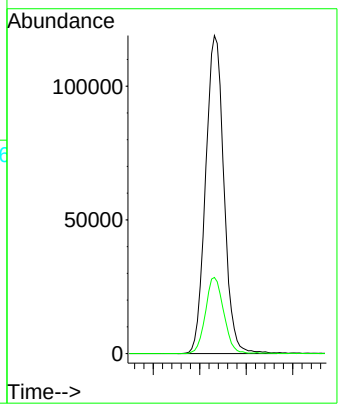
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

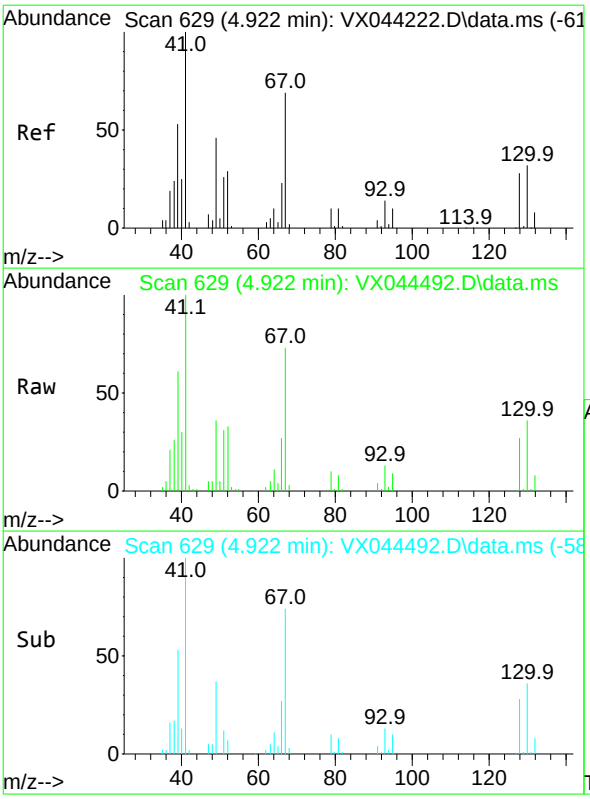


#40
Benzene
Concen: 51.229 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 78 Resp: 325004

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.3	28.9





#41
Methacrylonitrile
Concen: 42.511 ug/l
RT: 4.922 min Scan# 62
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

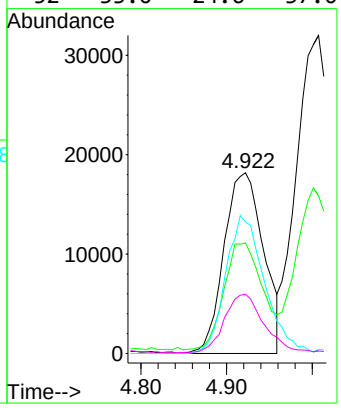
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

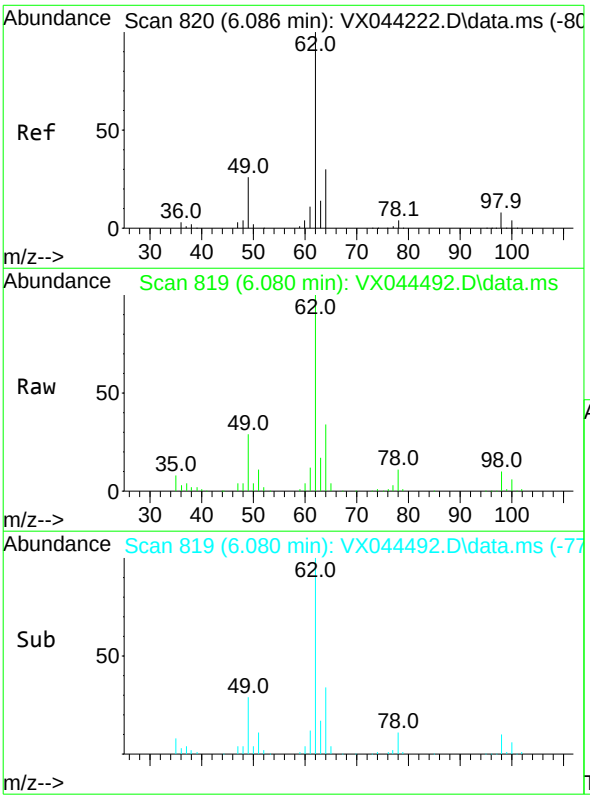
Tgt Ion: 41 Resp: 58306

Ion	Ratio	Lower	Upper
41	100		
39	57.1	44.2	66.4
67	75.0	57.2	85.8
52	33.0	24.6	37.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

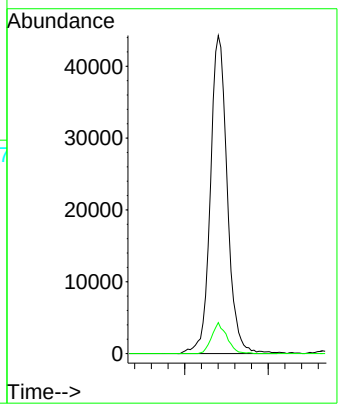


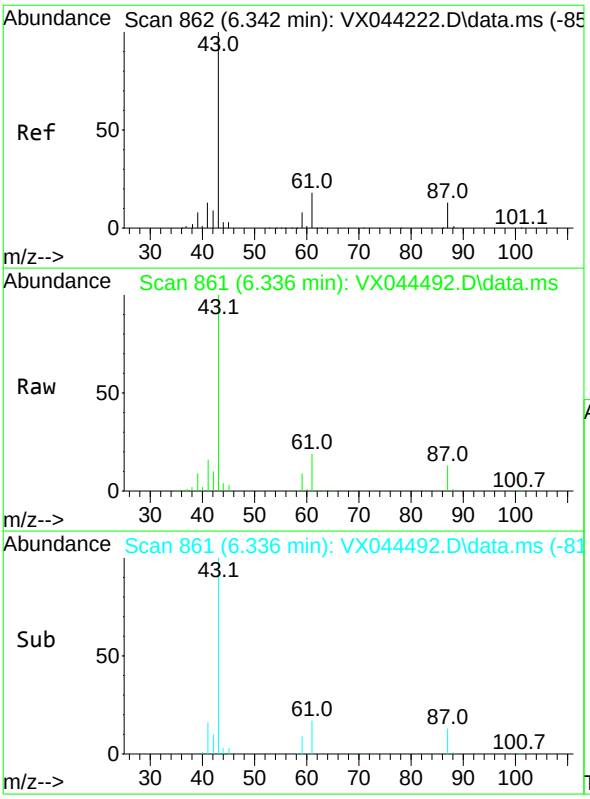


#42
1,2-Dichloroethane
Concen: 47.653 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 62 Resp: 124536

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	15.8





#43
Isopropyl Acetate
Concen: 44.034 ug/l
RT: 6.336 min Scan# 86
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

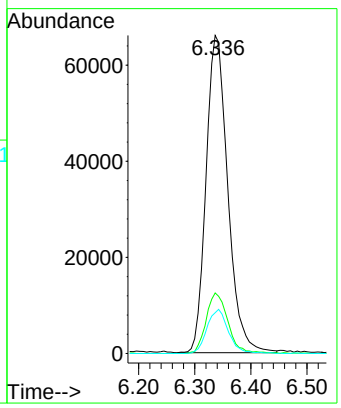
Tgt Ion: 43 Resp: 177770

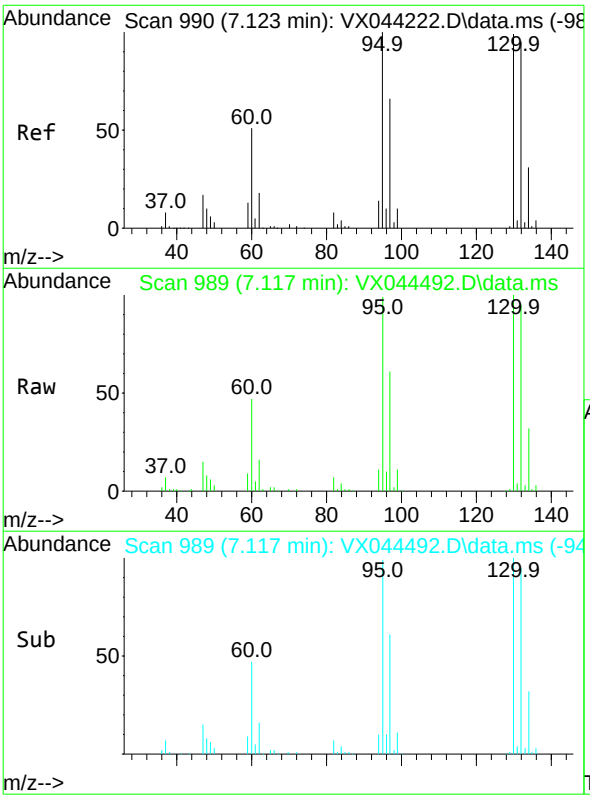
Ion	Ratio	Lower	Upper
43	100		
61	19.1	14.2	21.2
87	13.7	10.2	15.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

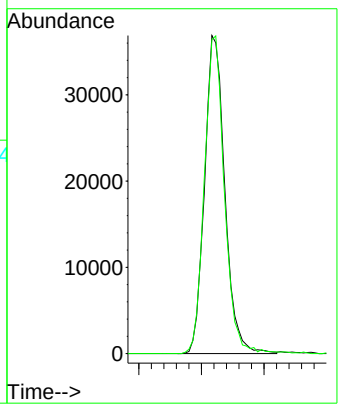


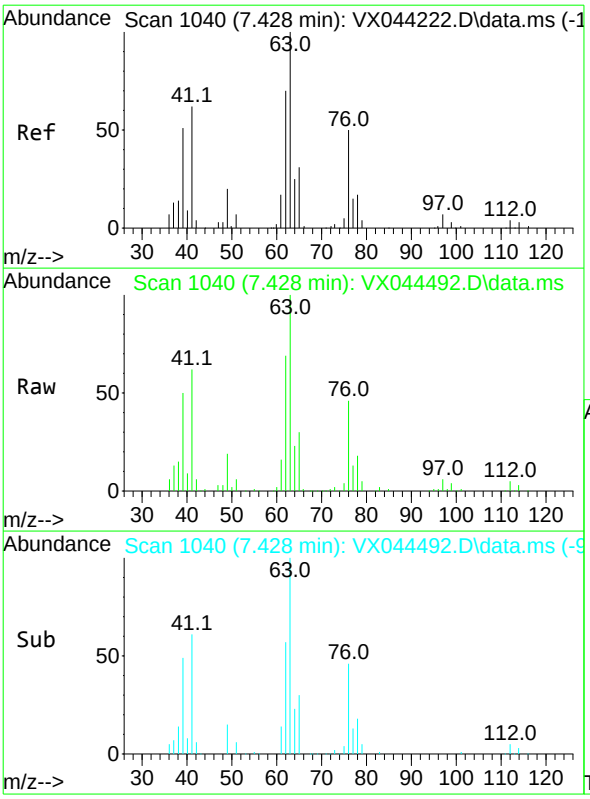


#44
Trichloroethene
Concen: 52.353 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:130 Resp: 82827

Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	201.4





#45
1,2-Dichloropropane
Concen: 50.659 ug/l
RT: 7.428 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

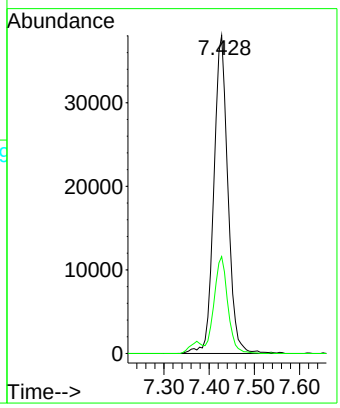
Tgt Ion: 63 Resp: 82109

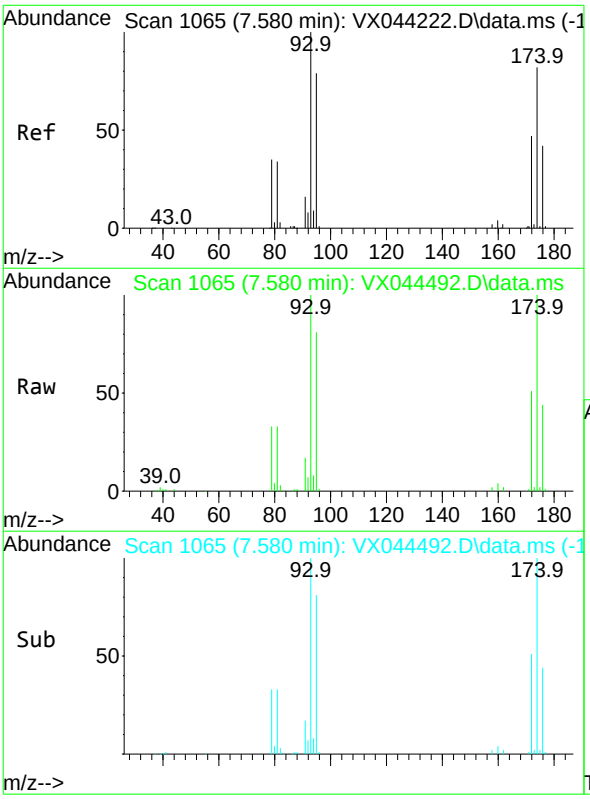
Ion	Ratio	Lower	Upper
63	100		
65	30.5	24.6	37.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

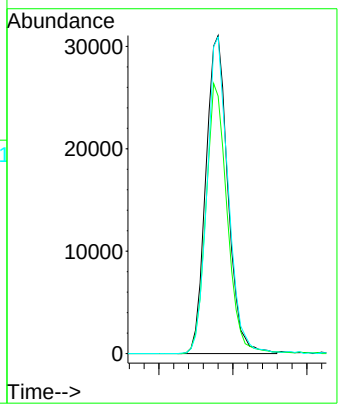


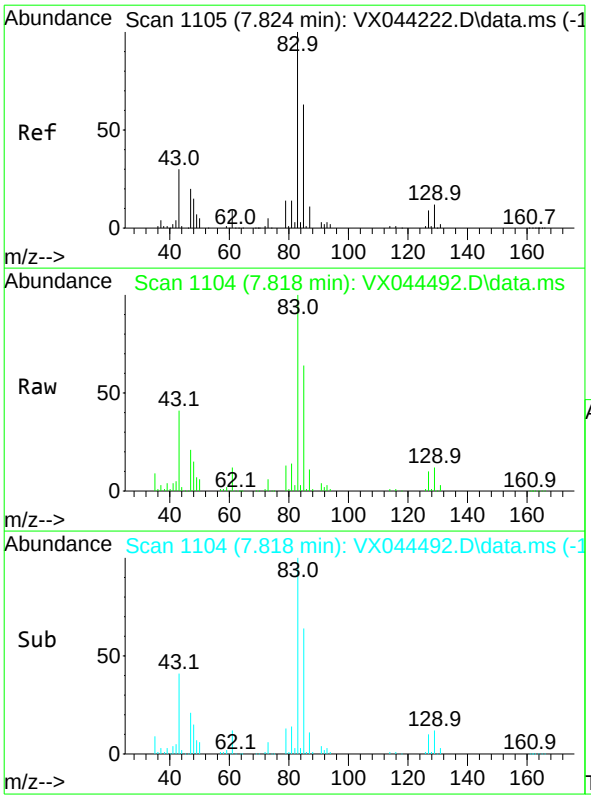


#46
Dibromomethane
Concen: 50.998 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 93 Resp: 64127

Ion	Ratio	Lower	Upper
93	100		
95	81.9	65.4	98.2
174	95.5	67.9	101.9





#47
Bromodichloromethane
Concen: 52.527 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

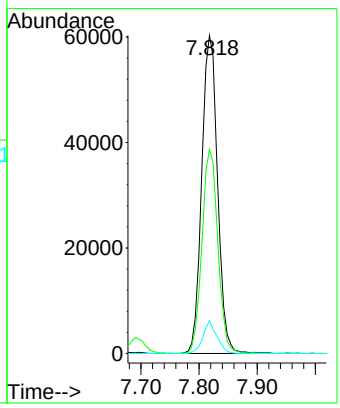
Tgt Ion: 83 Resp: 114072

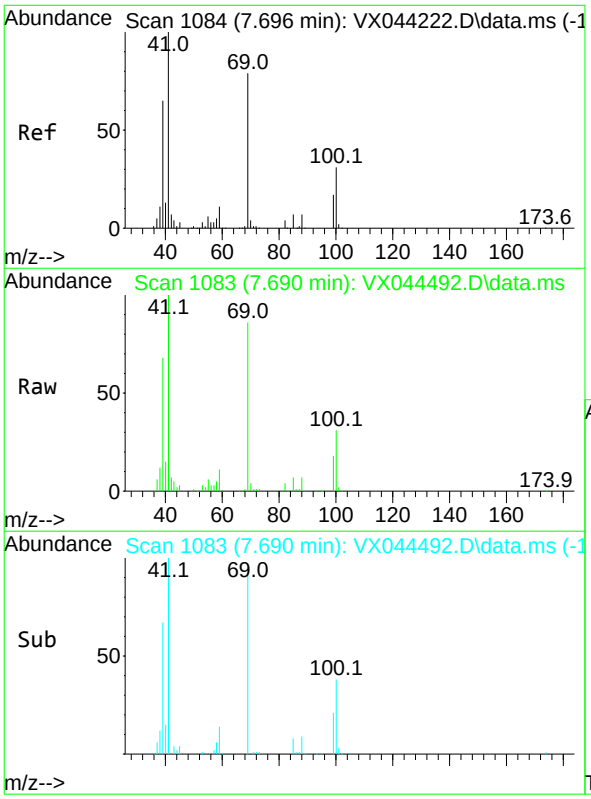
Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.6	75.8
127	10.3	7.3	10.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

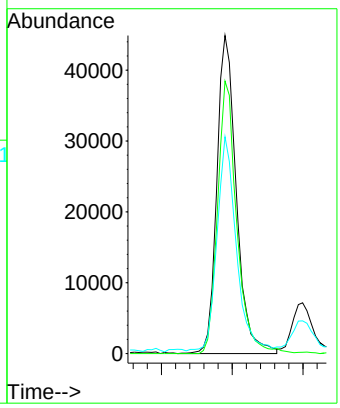


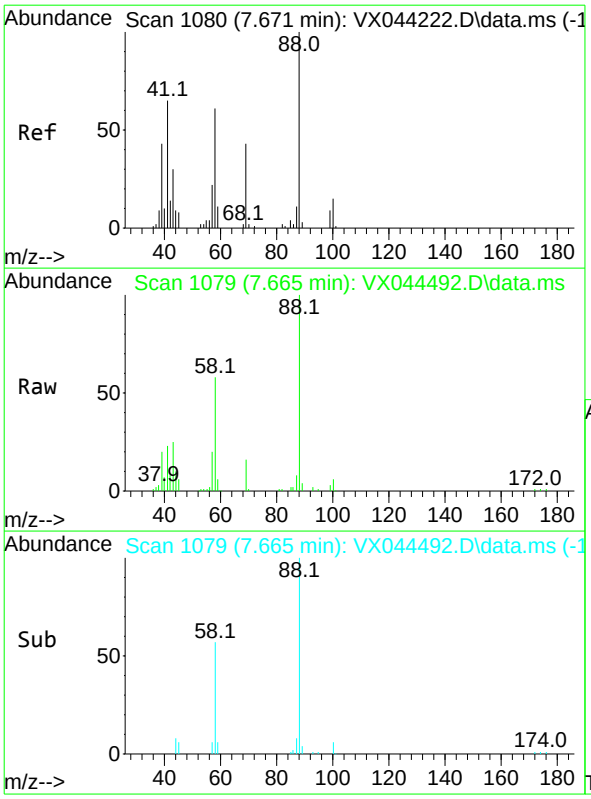


#48
Methyl methacrylate
Concen: 43.837 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 41 Resp: 85907

Ion	Ratio	Lower	Upper
41	100		
69	84.0	62.4	93.6
39	65.7	53.3	79.9





#49
1,4-Dioxane
Concen: 982.728 ug/l
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

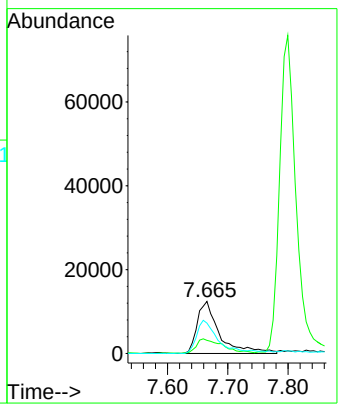
Tgt Ion: 88 Resp: 31930

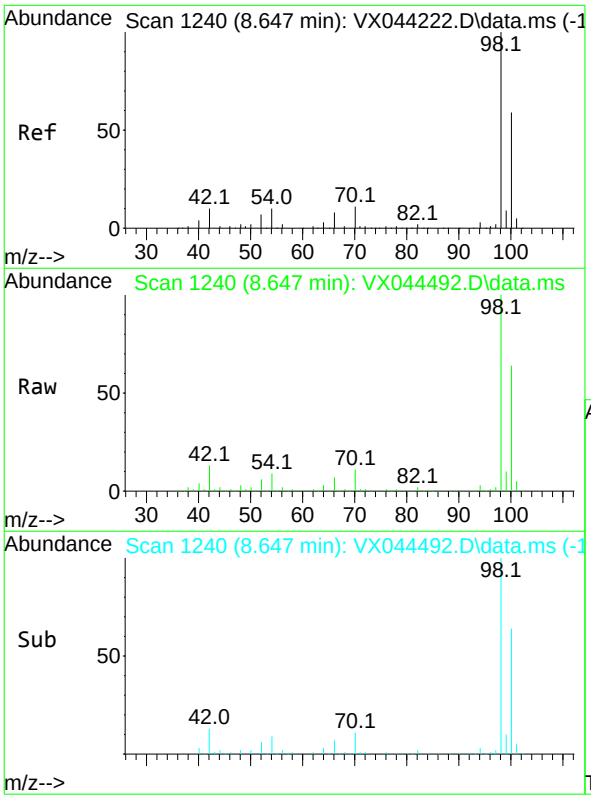
Ion	Ratio	Lower	Upper
88	100		
43	32.0	27.1	40.7
58	58.7	41.0	61.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

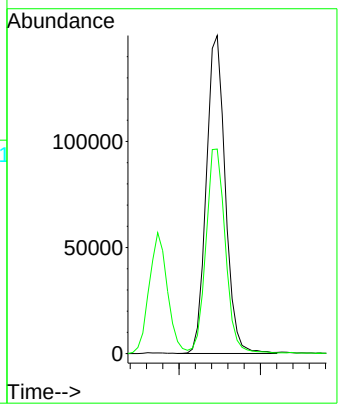


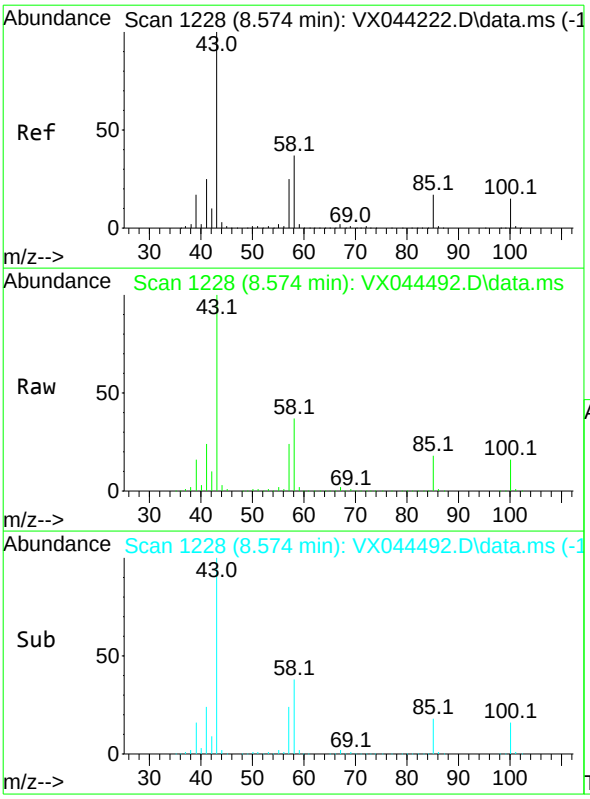


#50
Toluene-d8
Concen: 44.446 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 98 Resp: 242389

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.5	77.3

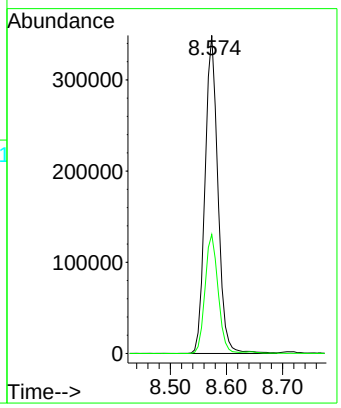




#51
4-Methyl-2-Pentanone
Concen: 214.305 ug/l
RT: 8.574 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 43 Resp: 556283

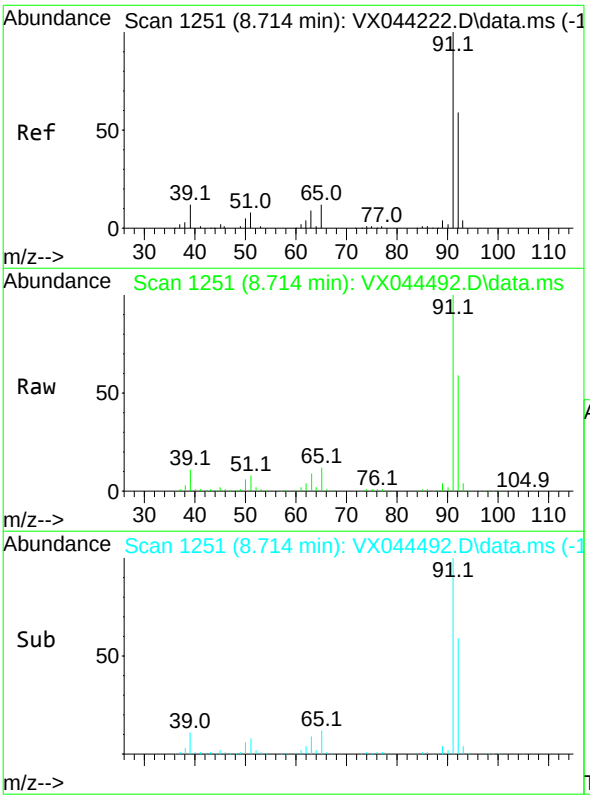
Ion	Ratio	Lower	Upper
43	100		
58	37.7	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

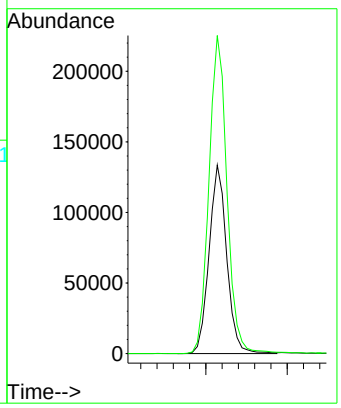
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

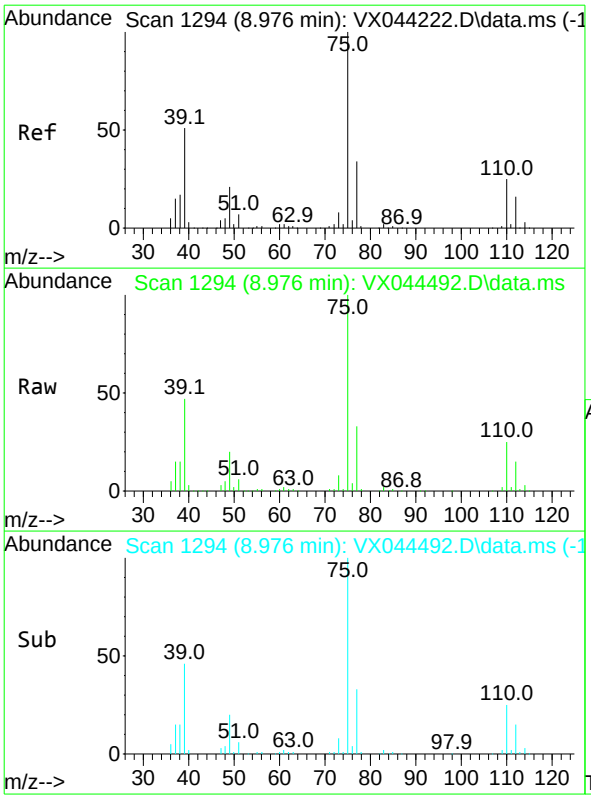


#52
Toluene
Concen: 50.524 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 92 Resp: 201289

Ion	Ratio	Lower	Upper
92	100		
91	172.6	137.0	205.6

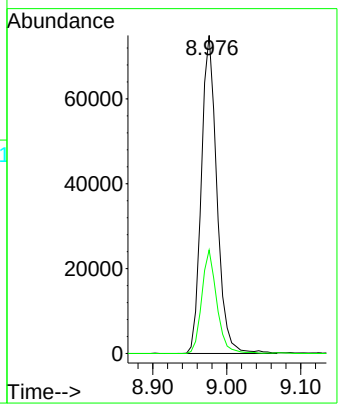




#53
t-1,3-Dichloropropene
Concen: 47.186 ug/l
RT: 8.976 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 75 Resp: 109547

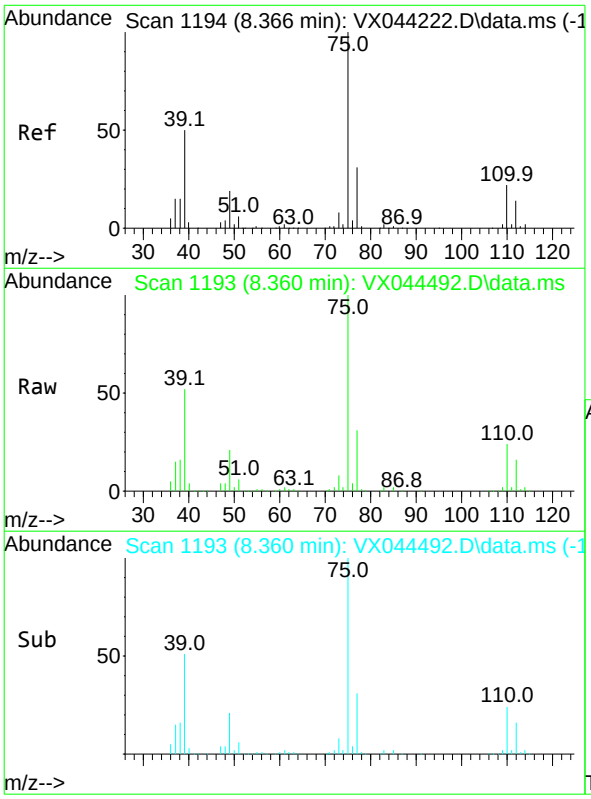
Ion	Ratio	Lower	Upper
75	100		
77	32.5	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

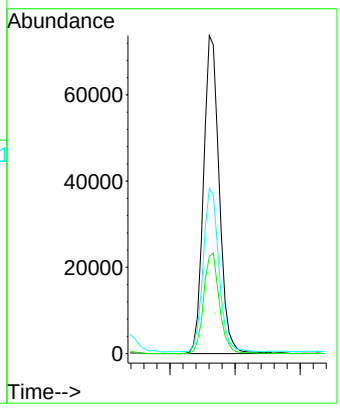
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

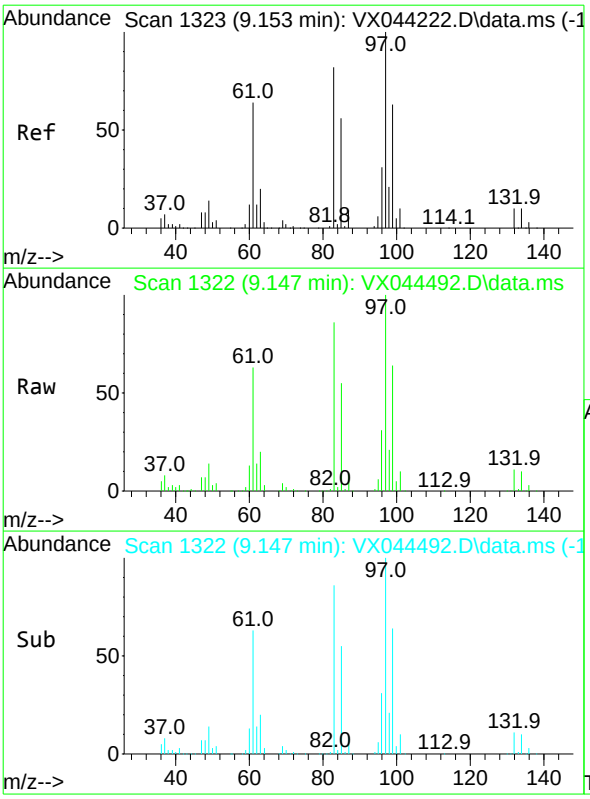


#54
cis-1,3-Dichloropropene
Concen: 52.242 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 75 Resp: 123531

Ion	Ratio	Lower	Upper
75	100		
77	30.5	24.7	37.1
39	51.2	40.3	60.5

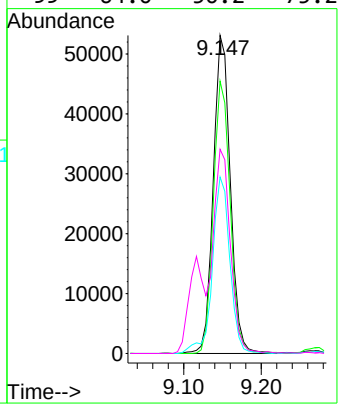




#55
1,1,2-Trichloroethane
Concen: 51.140 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 97 Resp: 80941

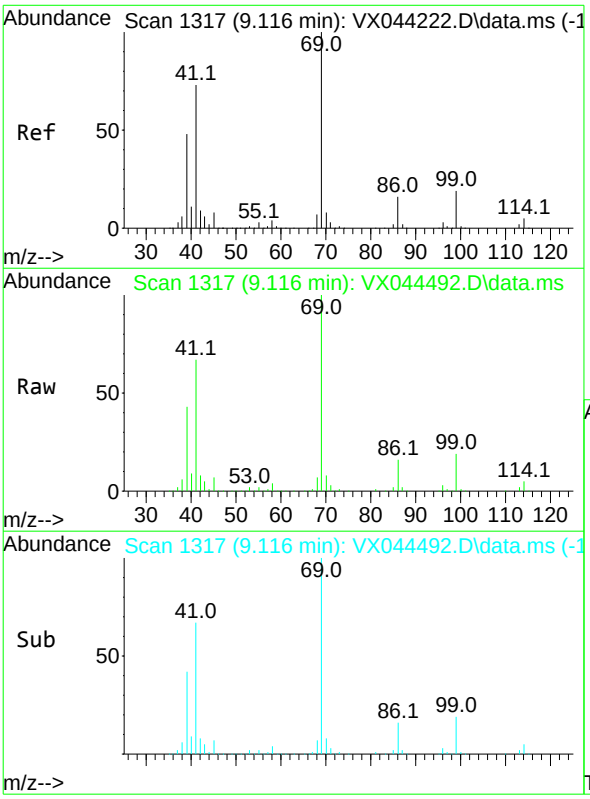
Ion	Ratio	Lower	Upper
97	100		
83	85.6	65.3	97.9
85	55.5	44.6	67.0
99	64.0	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

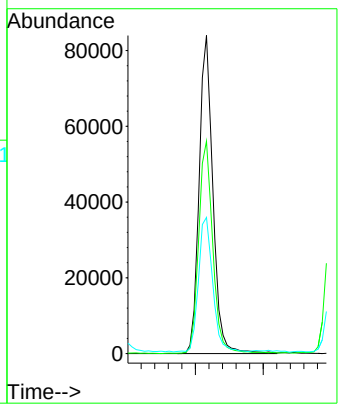
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

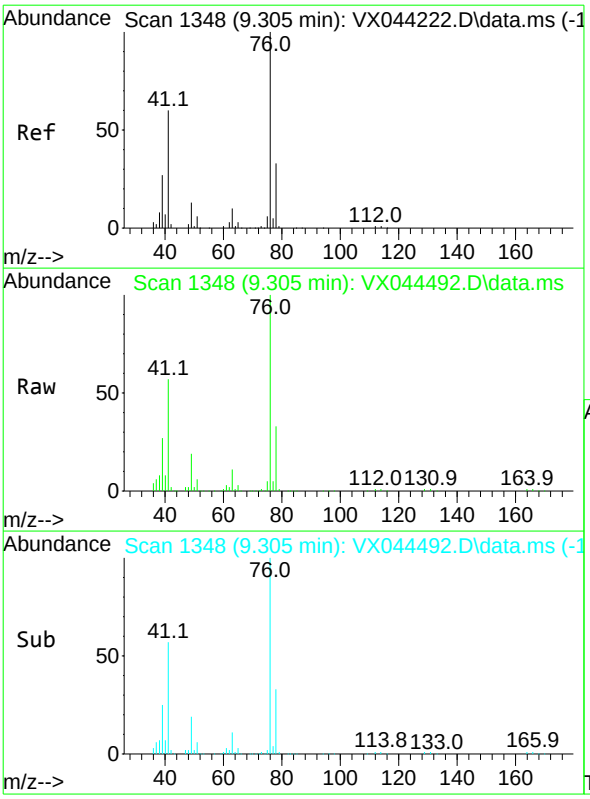


#56
Ethyl methacrylate
Concen: 47.418 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 69 Resp: 118479

Ion	Ratio	Lower	Upper
69	100		
41	68.8	56.6	85.0
39	43.7	37.4	56.0

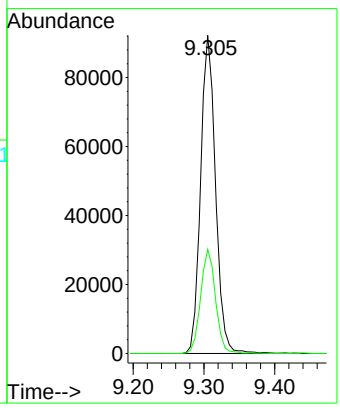




#57
1,3-Dichloropropane
Concen: 48.972 ug/l
RT: 9.305 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 76 Resp: 134913

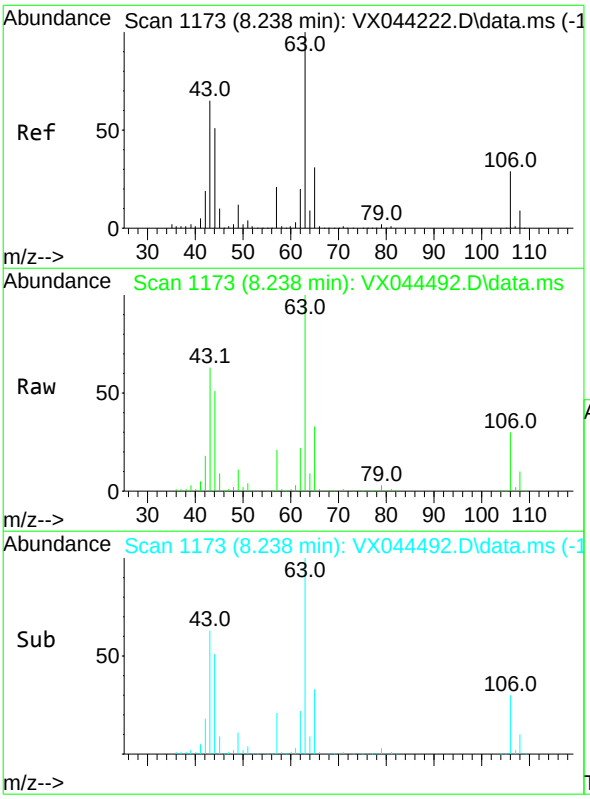
Ion	Ratio	Lower	Upper
76	100		
78	32.7	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

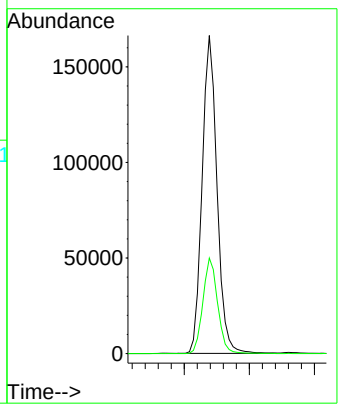
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

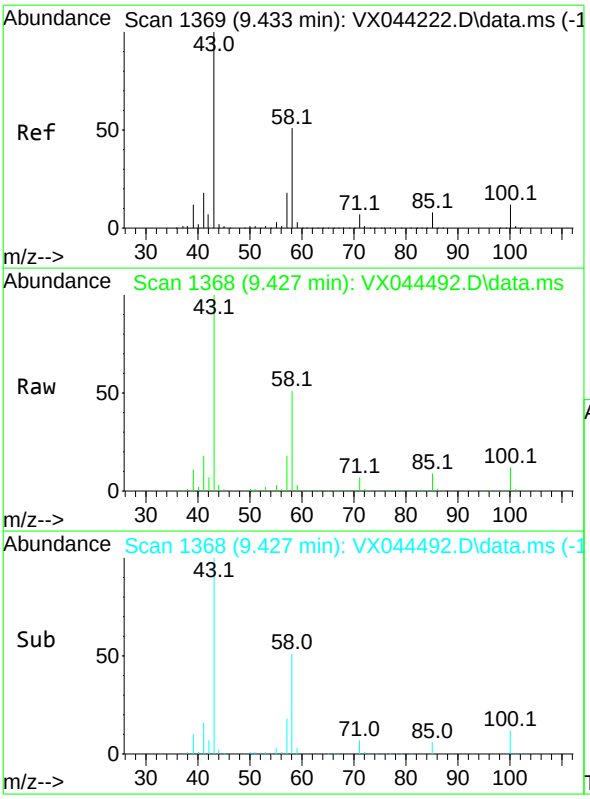


#58
2-Chloroethyl Vinyl ether
Concen: 209.048 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 63 Resp: 263448

Ion	Ratio	Lower	Upper
63	100		
106	29.8	22.8	34.2

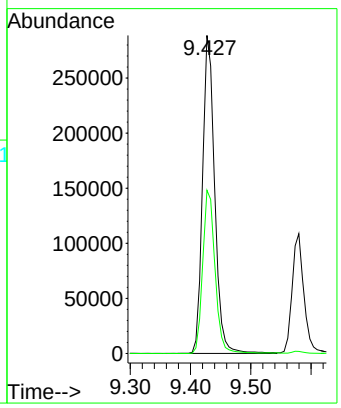




#59
2-Hexanone
Concen: 214.776 ug/l
RT: 9.427 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 43 Resp: 403537

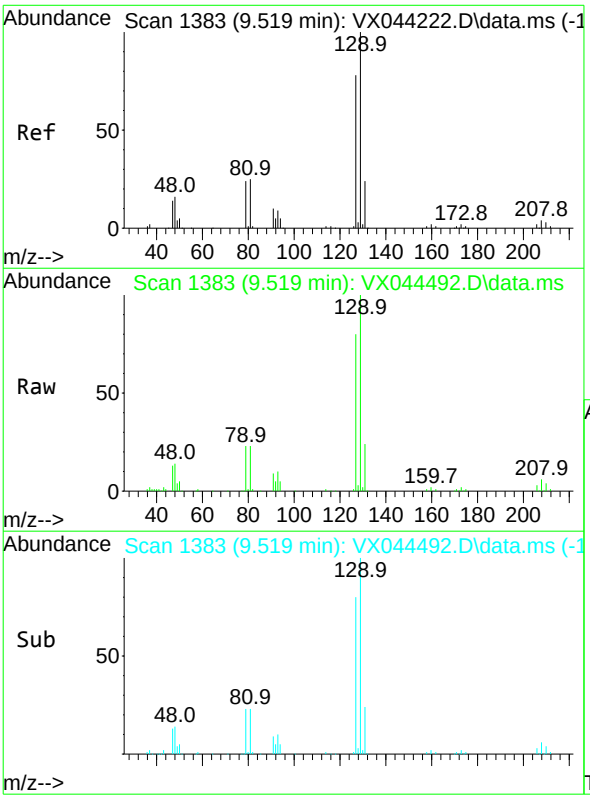
Ion	Ratio	Lower	Upper
43	100		
58	52.2	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

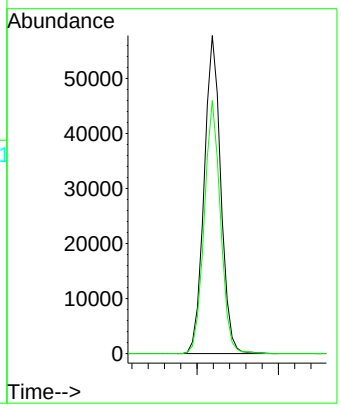
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

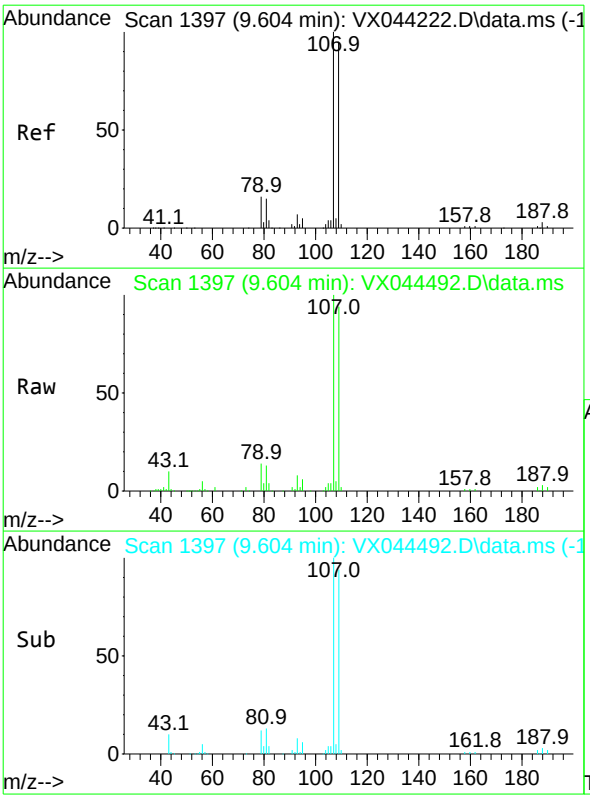


#60
Dibromochloromethane
Concen: 48.943 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:129 Resp: 81910

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.5	115.3

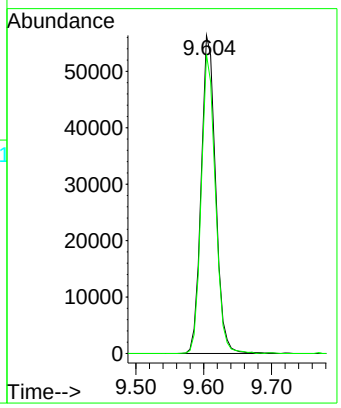




#61
1,2-Dibromoethane
Concen: 51.675 ug/l
RT: 9.604 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:107 Resp: 83250

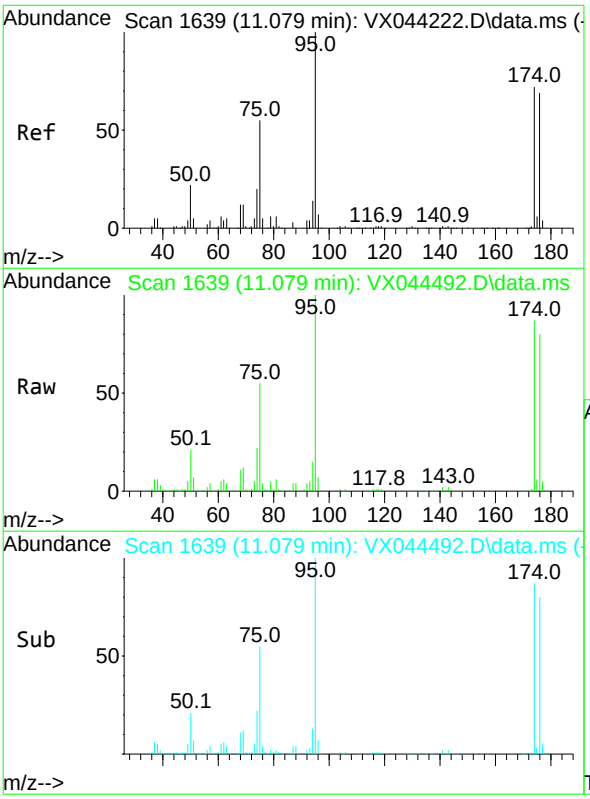
Ion	Ratio	Lower	Upper
107	100		
109	92.1	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

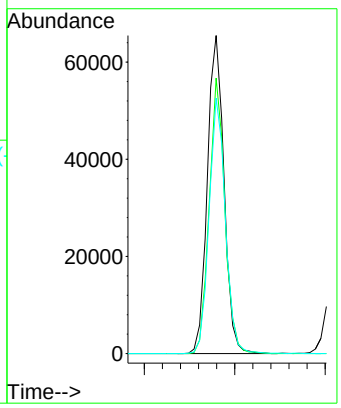
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

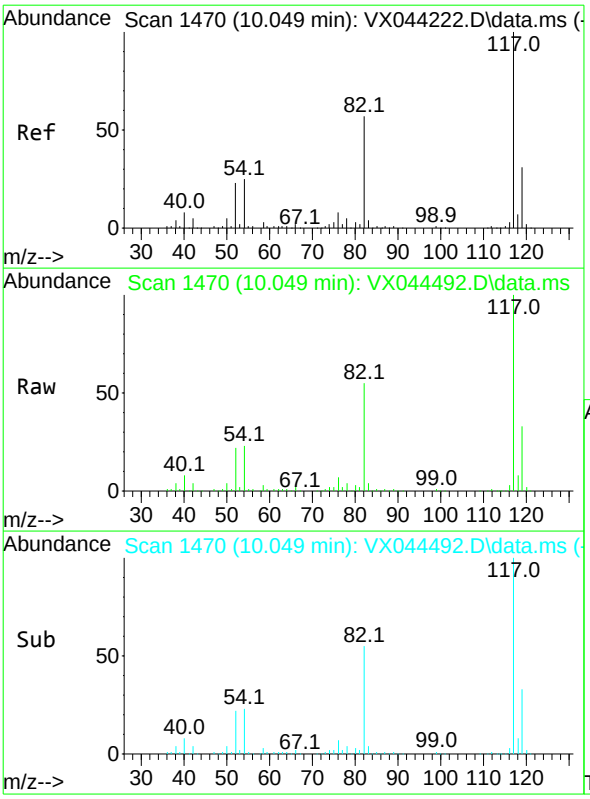


#62
4-Bromofluorobenzene
Concen: 43.908 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 95 Resp: 83671

Ion	Ratio	Lower	Upper
95	100		
174	81.4	0.0	145.8
176	78.5	0.0	137.8

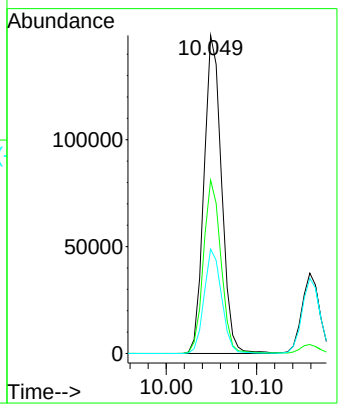




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:117 Resp: 200491

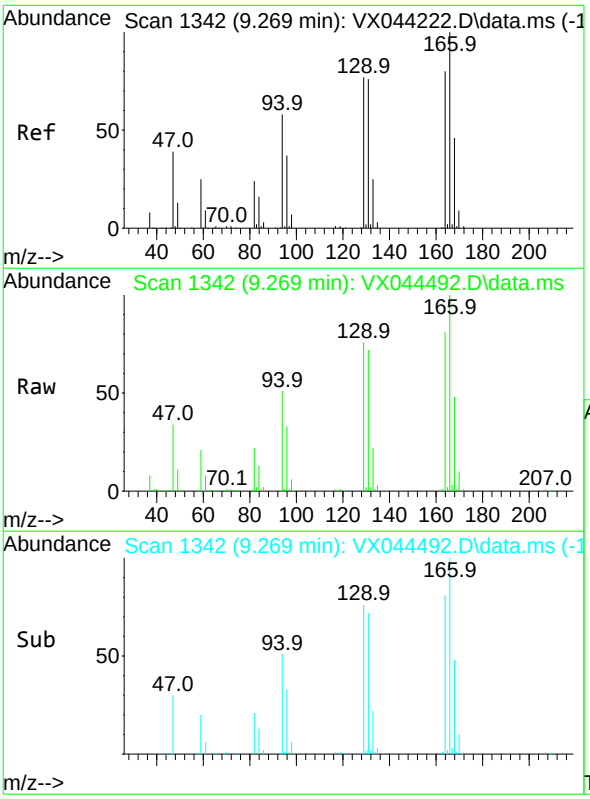
Ion	Ratio	Lower	Upper
117	100		
82	54.5	45.8	68.8
119	32.8	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

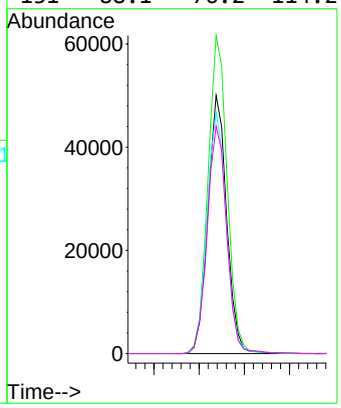
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

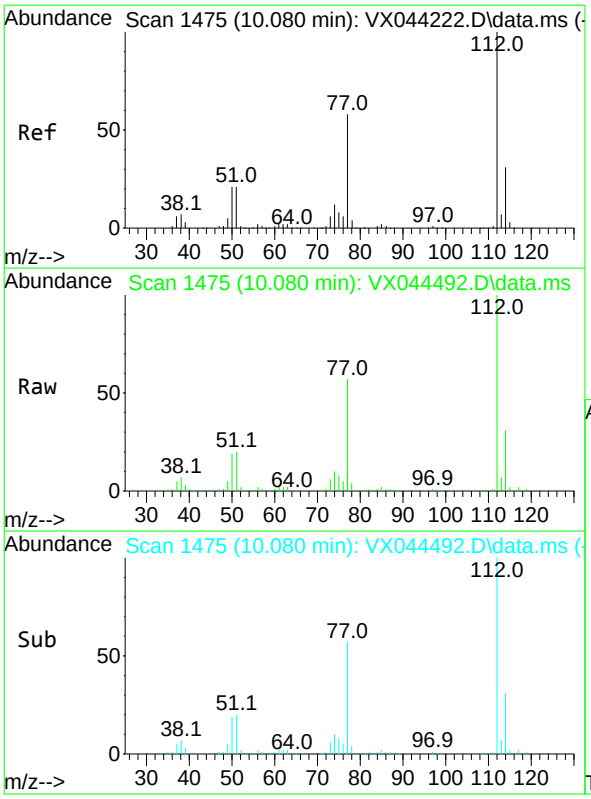


#64
Tetrachloroethene
Concen: 54.558 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:164 Resp: 72600

Ion	Ratio	Lower	Upper
164	100		
166	123.2	100.4	150.6
129	93.6	77.2	115.8
131	88.1	76.2	114.2





#65
Chlorobenzene
Concen: 51.470 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

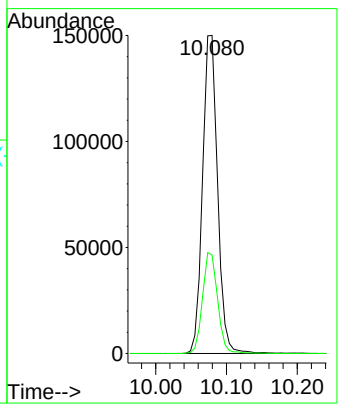
Tgt Ion:112 Resp: 221119

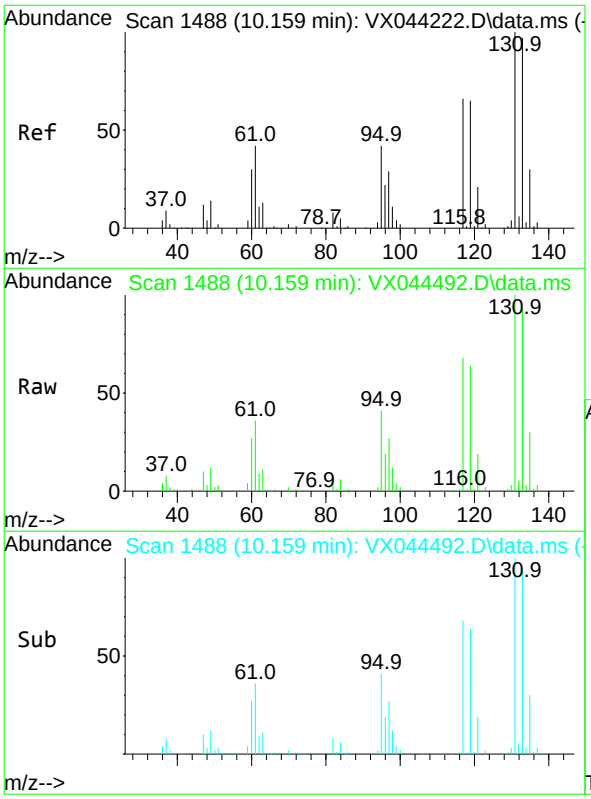
Ion	Ratio	Lower	Upper
112	100		
114	31.0	25.0	37.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

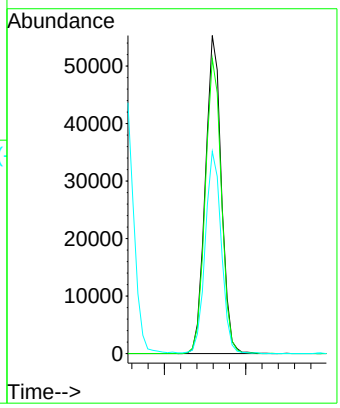


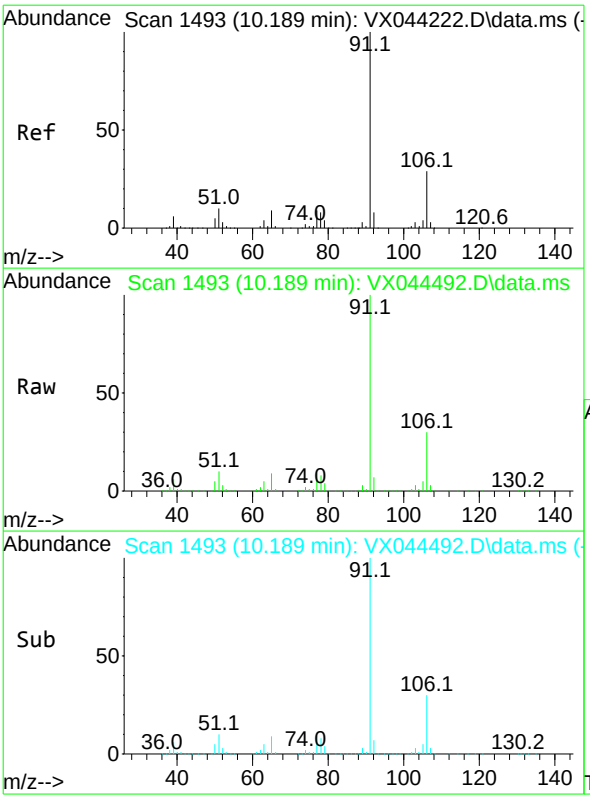


#66
1,1,1,2-Tetrachloroethane
Concen: 54.615 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:131 Resp: 75407

Ion	Ratio	Lower	Upper
131	100		
133	93.5	47.3	141.8
119	64.0	31.6	95.0

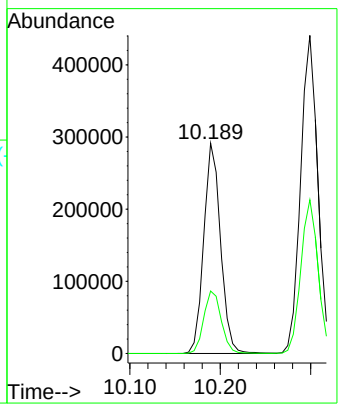




#67
Ethyl Benzene
Concen: 50.731 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 91 Resp: 376573

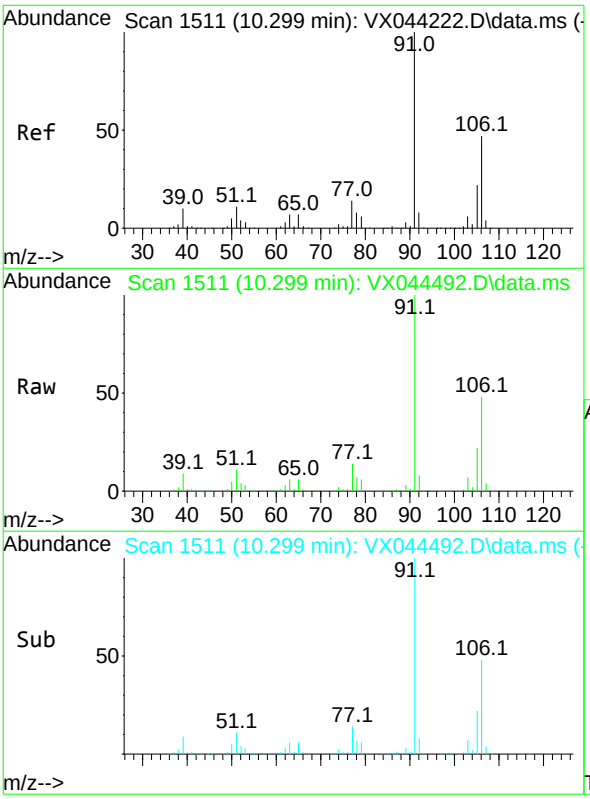
Ion	Ratio	Lower	Upper
91	100		
106	29.7	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

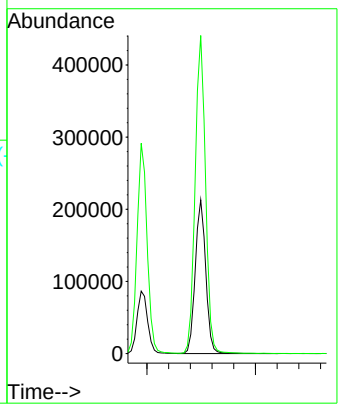
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

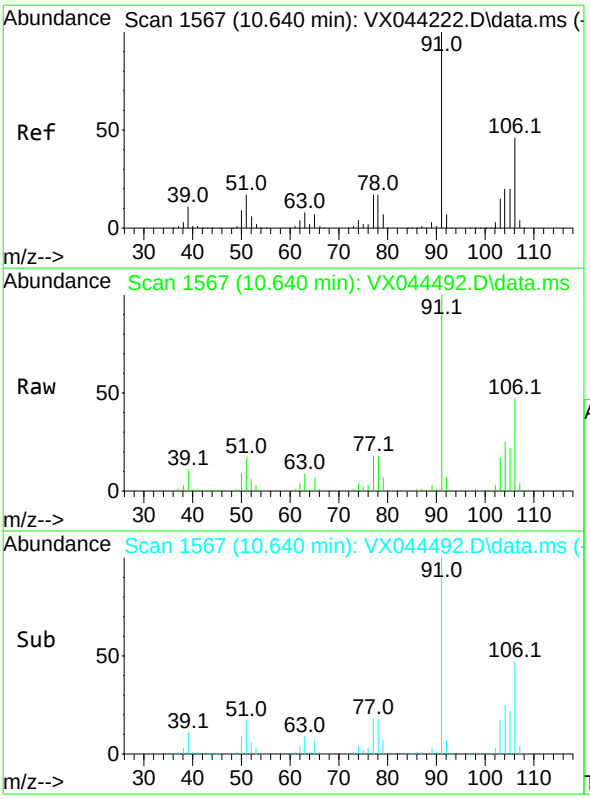


#68
m/p-Xylenes
Concen: 105.040 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:106 Resp: 286106

Ion	Ratio	Lower	Upper
106	100		
91	203.9	170.2	255.2

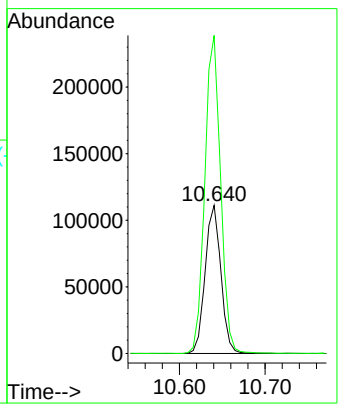




#69
o-Xylene
Concen: 51.527 ug/l
RT: 10.640 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:106 Resp: 142004

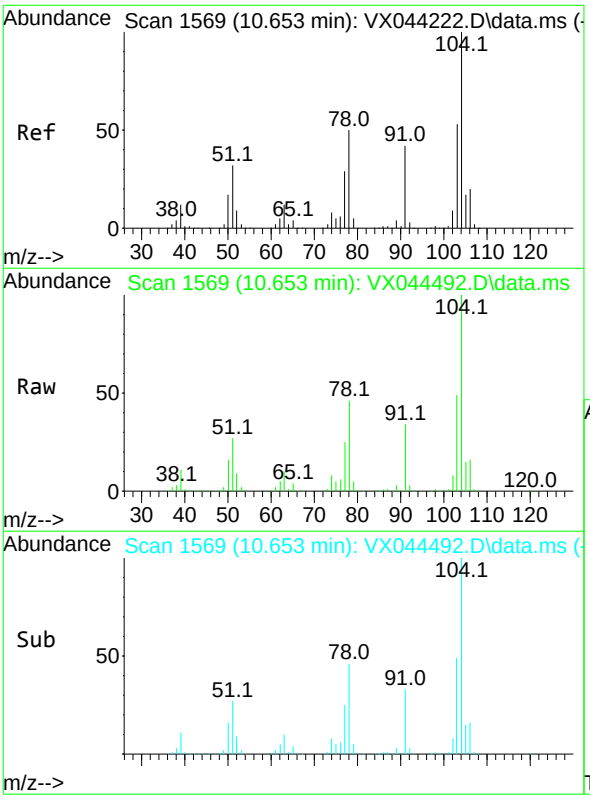
Ion	Ratio	Lower	Upper
106	100		
91	215.0	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

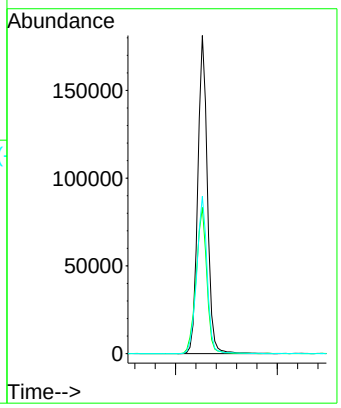
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

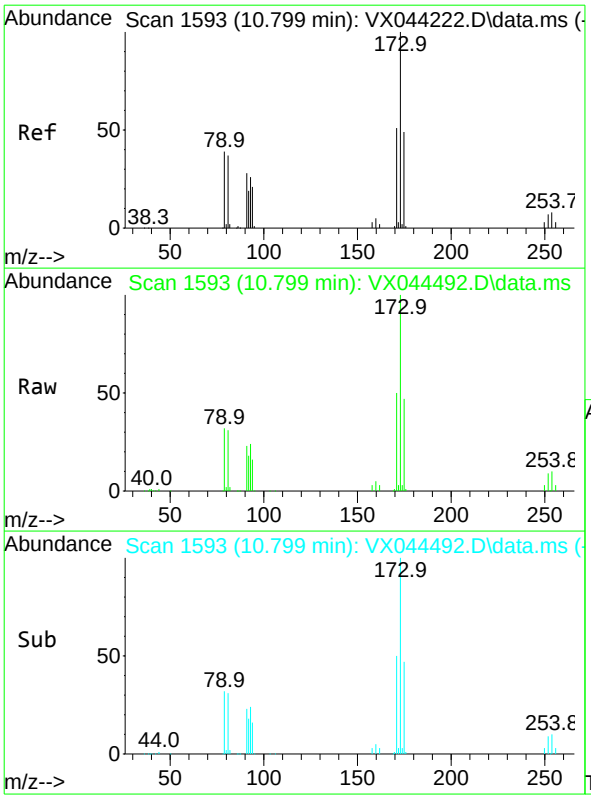


#70
Styrene
Concen: 53.584 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:104 Resp: 236734

Ion	Ratio	Lower	Upper
104	100		
78	51.2	44.6	67.0
103	53.6	45.4	68.0

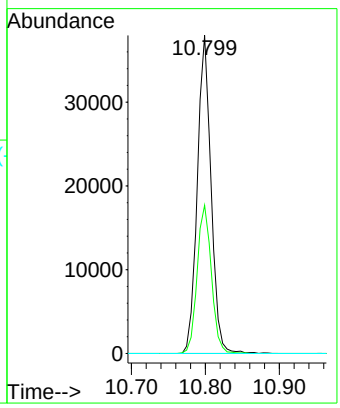




#71
Bromoform
Concen: 50.746 ug/l
RT: 10.799 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:173 Resp: 49054

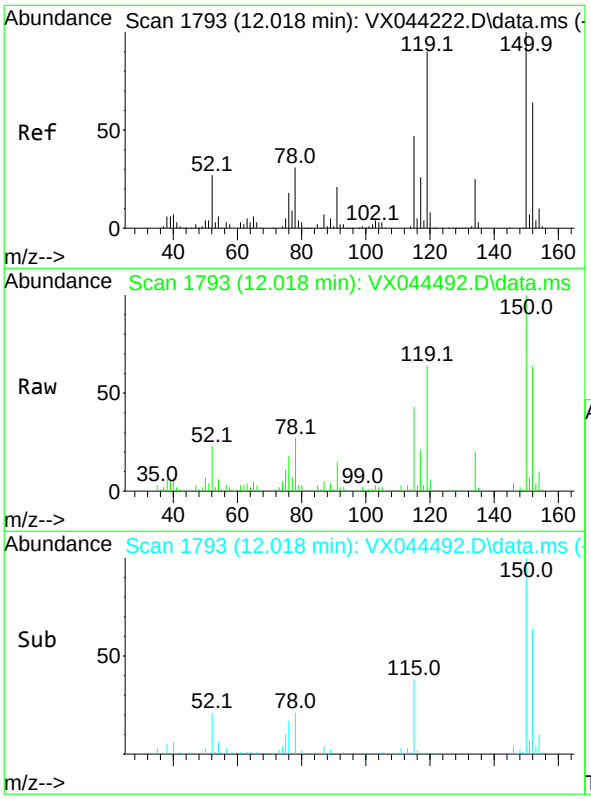
Ion	Ratio	Lower	Upper
173	100		
175	48.3	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

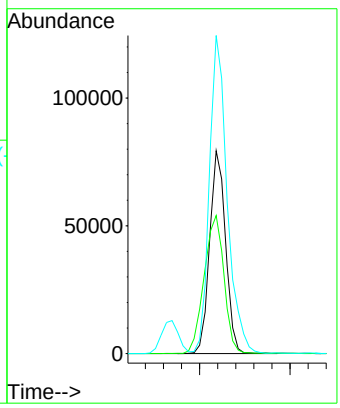
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

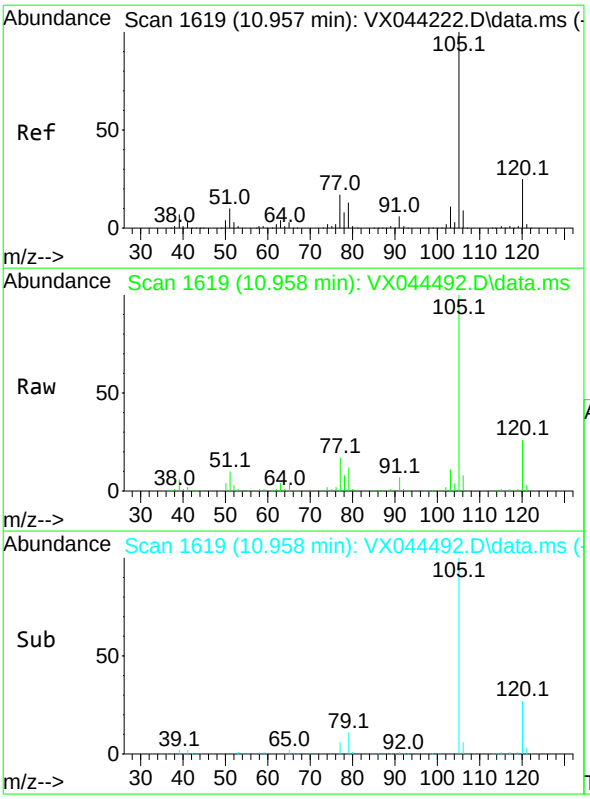


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:152 Resp: 97321

Ion	Ratio	Lower	Upper
152	100		
115	84.8	44.5	133.3
150	174.1	0.0	353.8

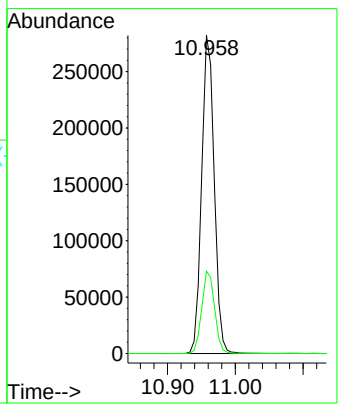




#73
Isopropylbenzene
Concen: 48.696 ug/l
RT: 10.958 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:105 Resp: 362803

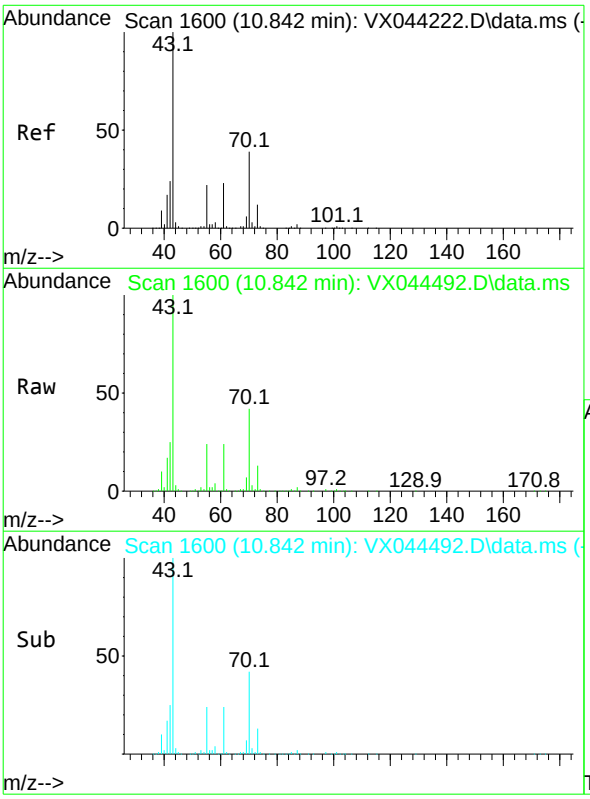
Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

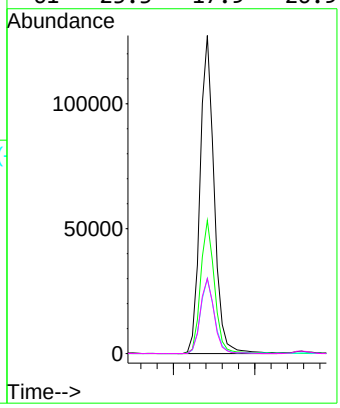
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

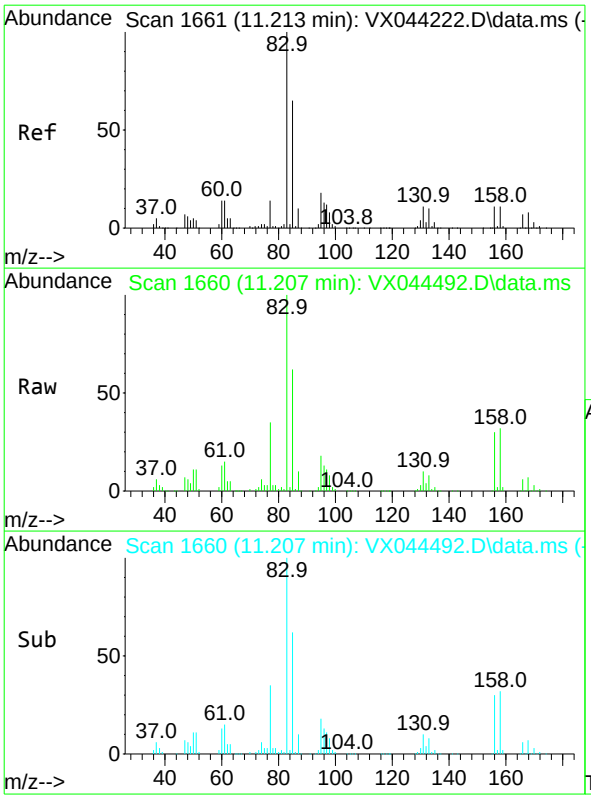


#74
N-amyl acetate
Concen: 44.229 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 43 Resp: 152291

Ion	Ratio	Lower	Upper
43	100		
70	41.4	31.9	47.9
55	23.5	17.9	26.9
61	23.3	17.9	26.9

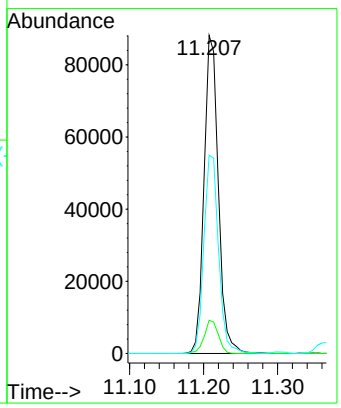




#75
1,1,2,2-Tetrachloroethane
Concen: 45.716 ug/l
RT: 11.207 min Scan# 16
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 83 Resp: 118300

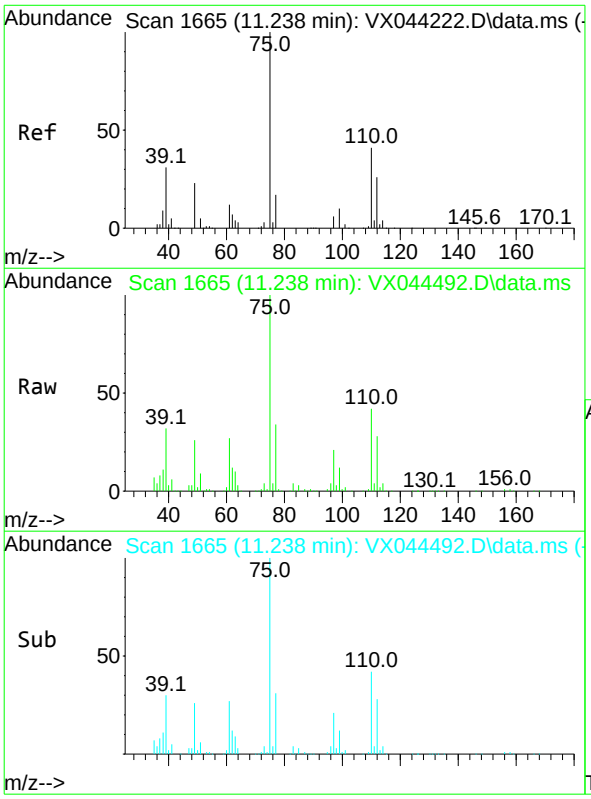
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	64.2	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

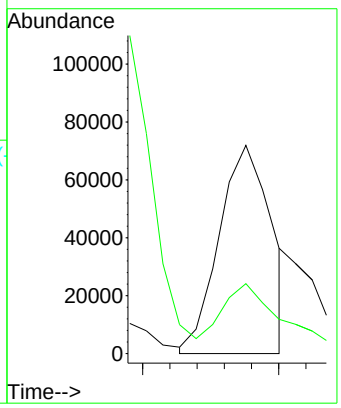
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

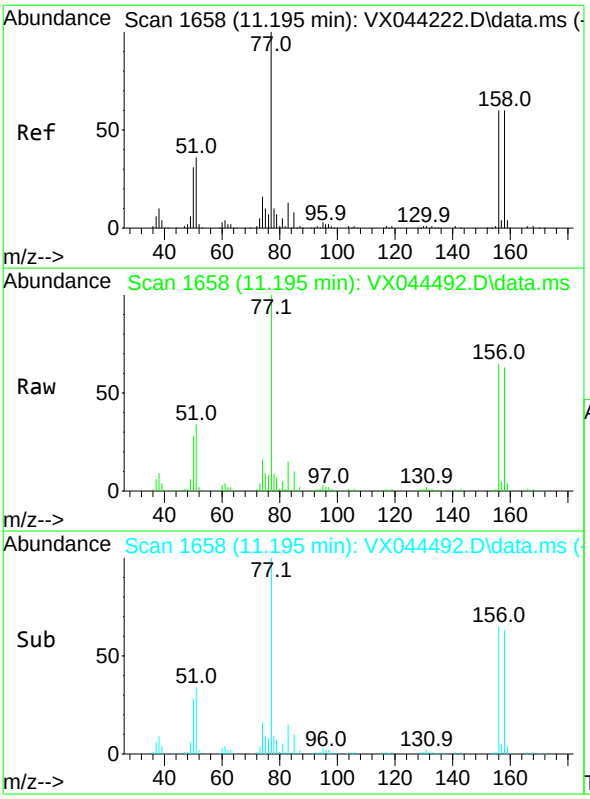


#76
1,2,3-Trichloropropane
Concen: 44.099 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 75 Resp: 95824

Ion	Ratio	Lower	Upper
75	100		
77	40.5	20.9	62.7





#77
Bromobenzene
Concen: 50.455 ug/l
RT: 11.195 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

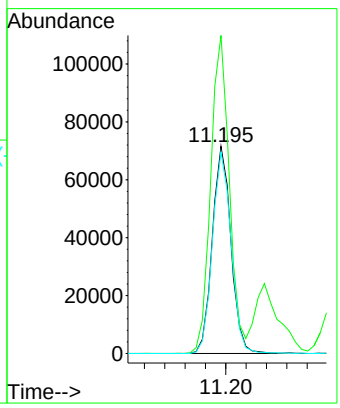
Tgt Ion:156 Resp: 91156

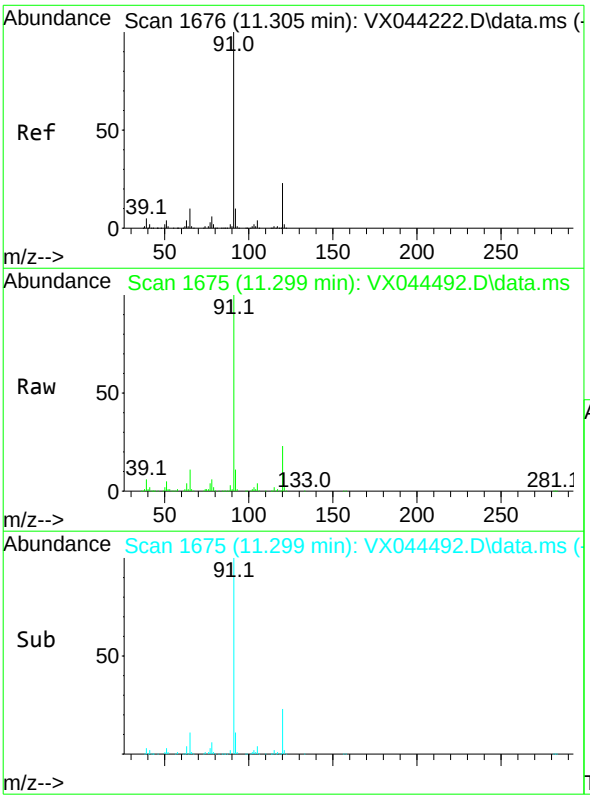
Ion	Ratio	Lower	Upper
156	100		
77	153.3	82.6	247.8
158	97.5	48.8	146.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

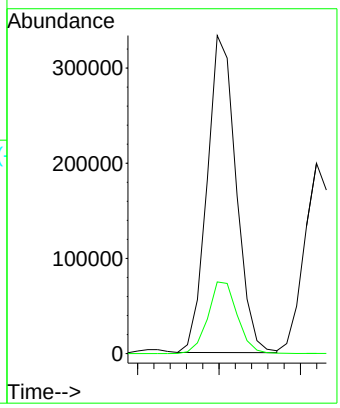


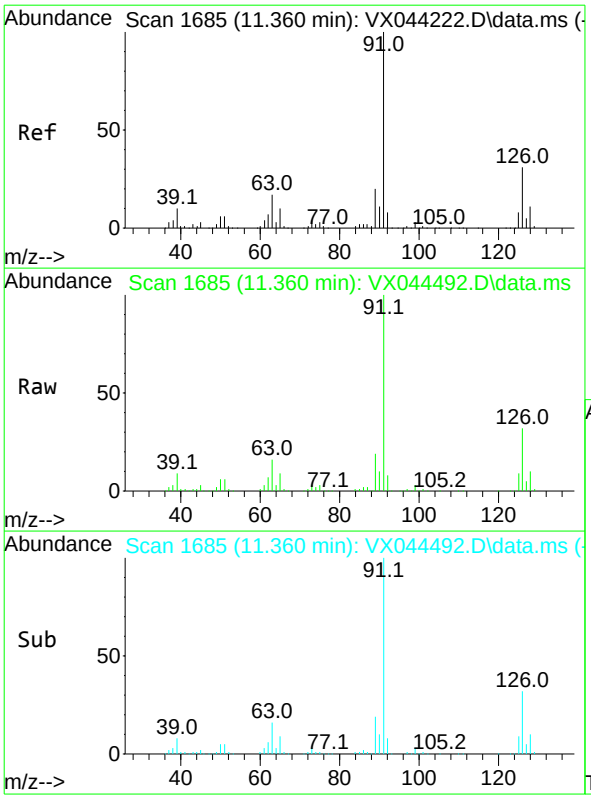


#78
n-propylbenzene
Concen: 50.048 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 91 Resp: 412127

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.0	33.0





#79
2-Chlorotoluene
Concen: 47.209 ug/l
RT: 11.360 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

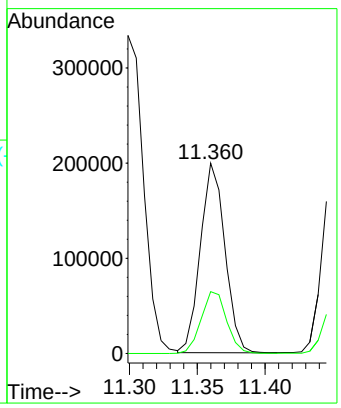
Tgt Ion: 91 Resp: 251412

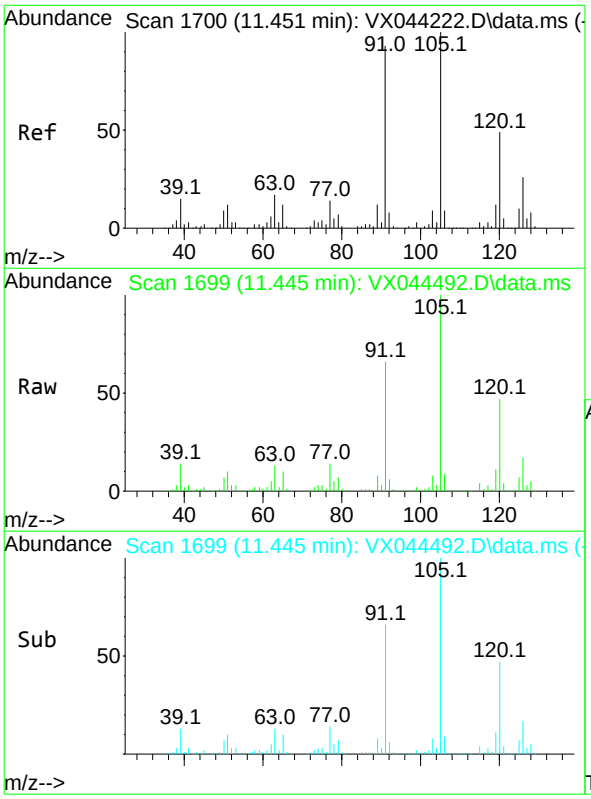
Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.4	49.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

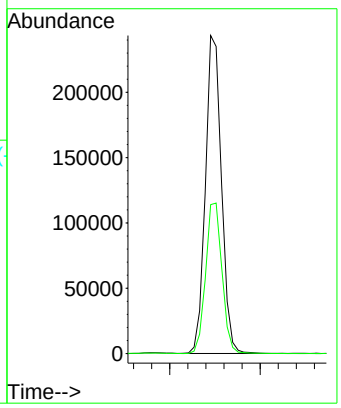


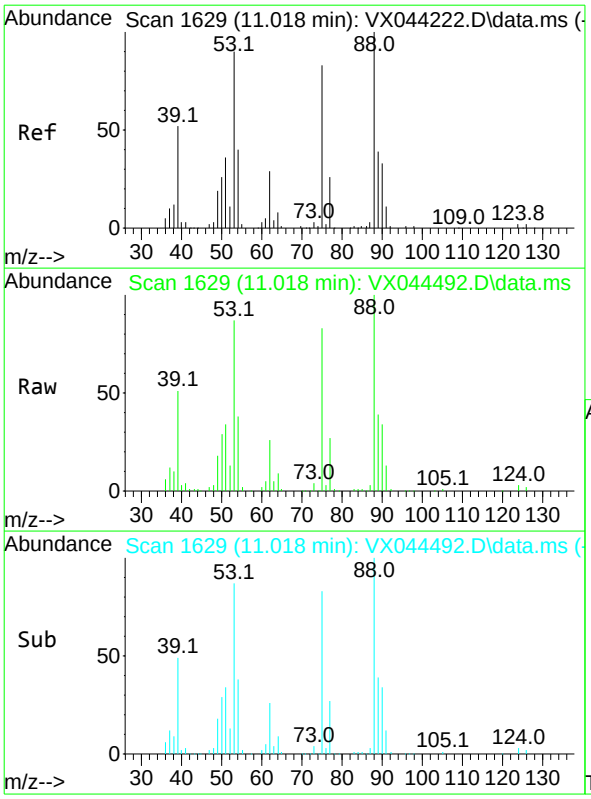


#80
1,3,5-Trimethylbenzene
Concen: 48.618 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:105 Resp: 300384

Ion	Ratio	Lower	Upper
105	100		
120	48.4	23.8	71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 41.730 ug/l
RT: 11.018 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

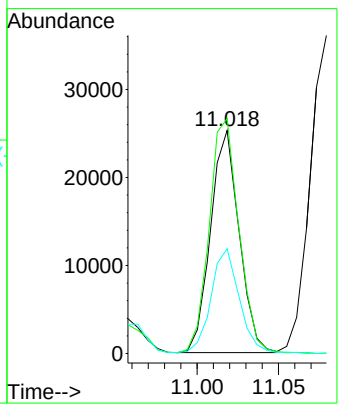
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

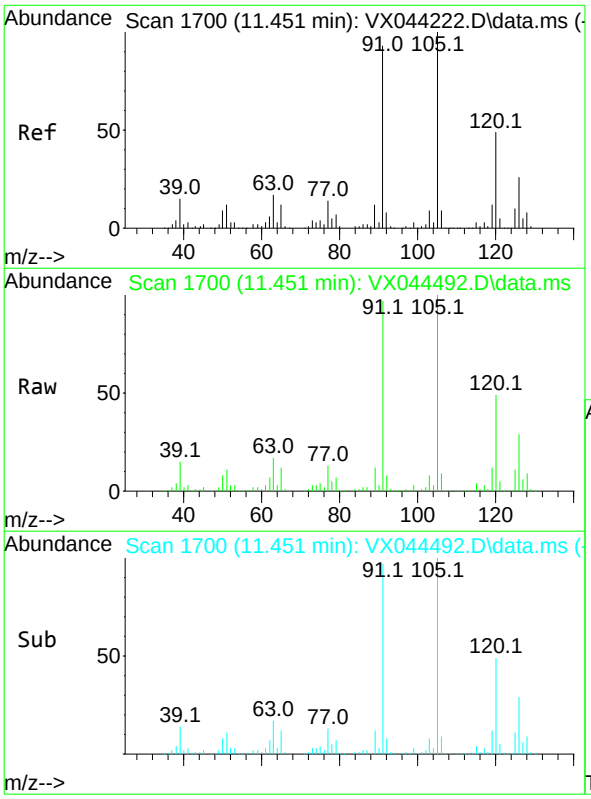
Tgt Ion: 75 Resp: 30857

Ion	Ratio	Lower	Upper
75	100		
53	110.0	93.6	140.4
89	47.2	37.3	55.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

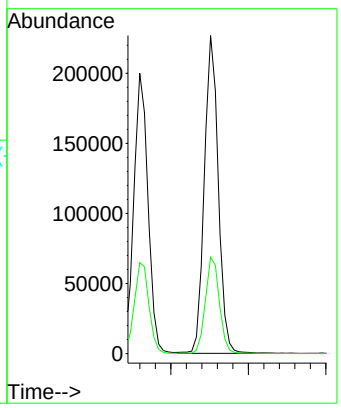


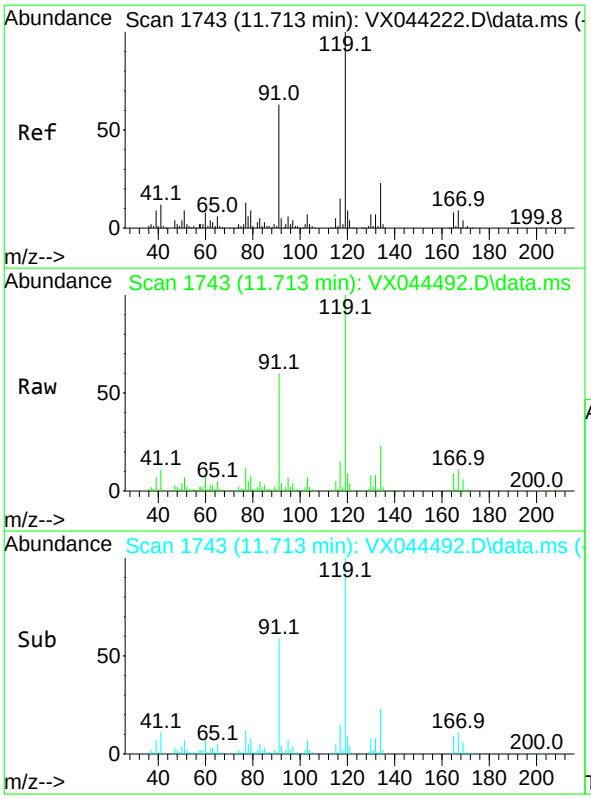


#82
4-Chlorotoluene
Concen: 48.094 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 91 Resp: 283625

Ion	Ratio	Lower	Upper
91	100		
126	30.7	14.5	43.5





#83
tert-Butylbenzene
Concen: 50.203 ug/l
RT: 11.713 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

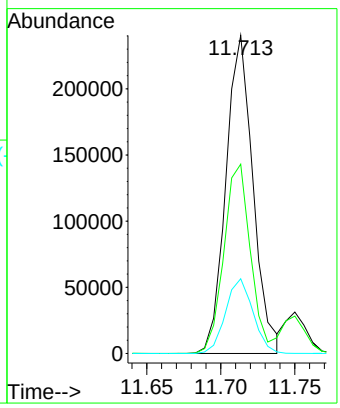
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

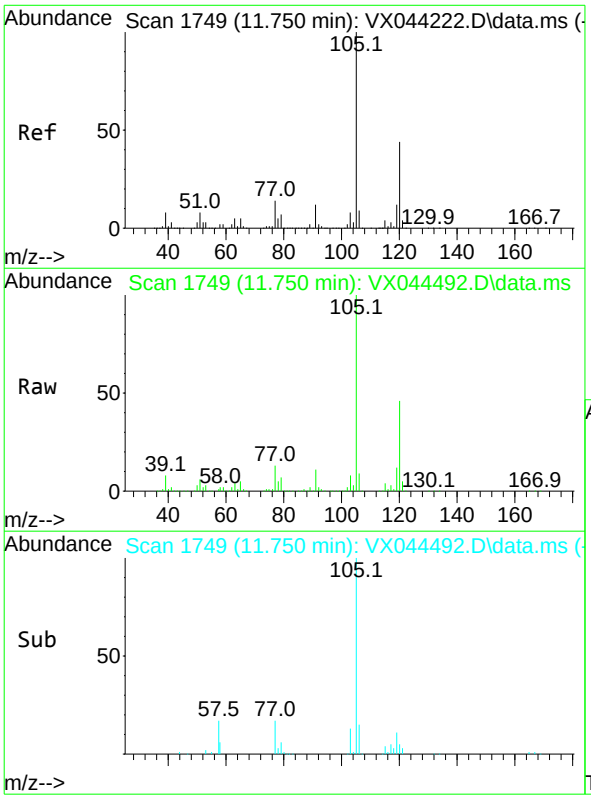
Tgt Ion:119 Resp: 306541

Ion	Ratio	Lower	Upper
119	100		
91	58.2	30.9	92.5
134	23.8	11.5	34.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

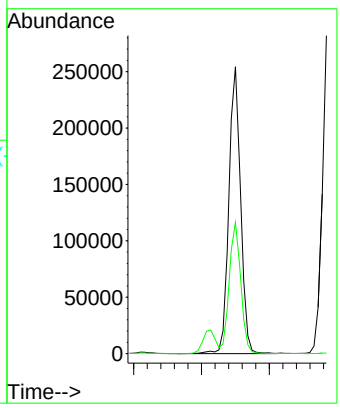


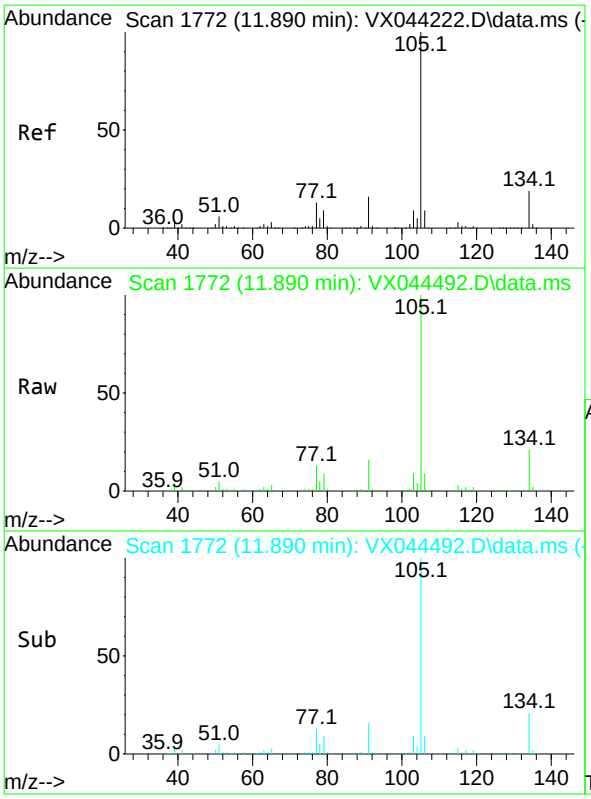


#84
1,2,4-Trimethylbenzene
Concen: 50.368 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:105 Resp: 305617

Ion	Ratio	Lower	Upper
105	100		
120	45.0	21.7	65.1

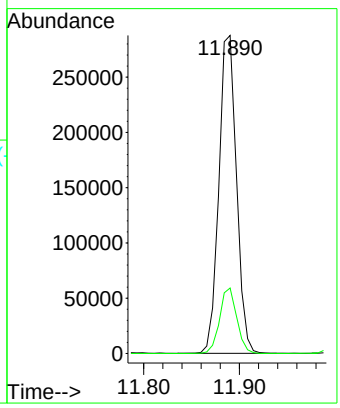




#85
sec-Butylbenzene
Concen: 49.579 ug/l
RT: 11.890 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:105 Resp: 367512

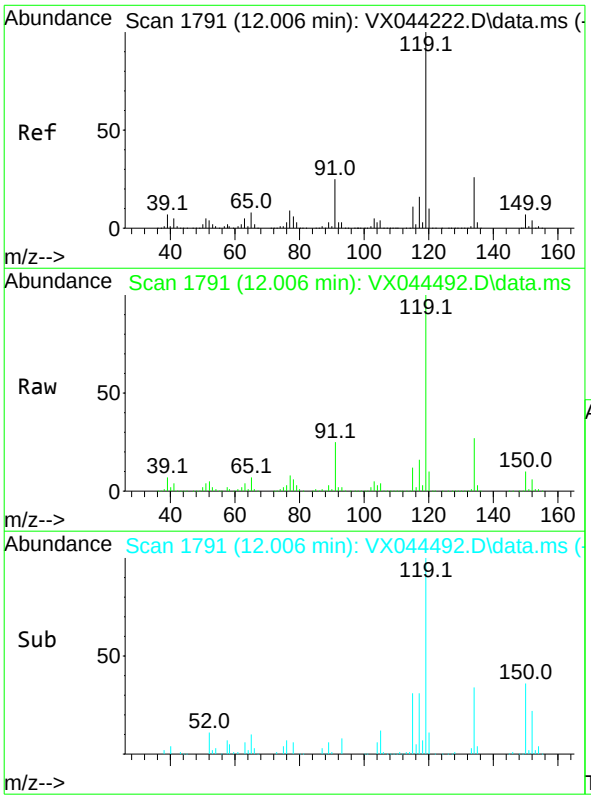
Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

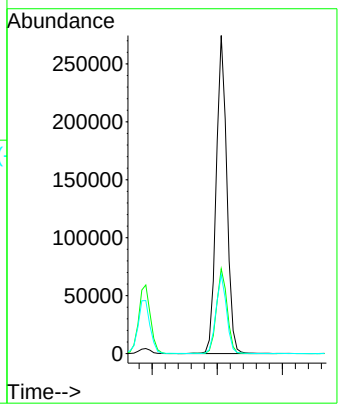
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

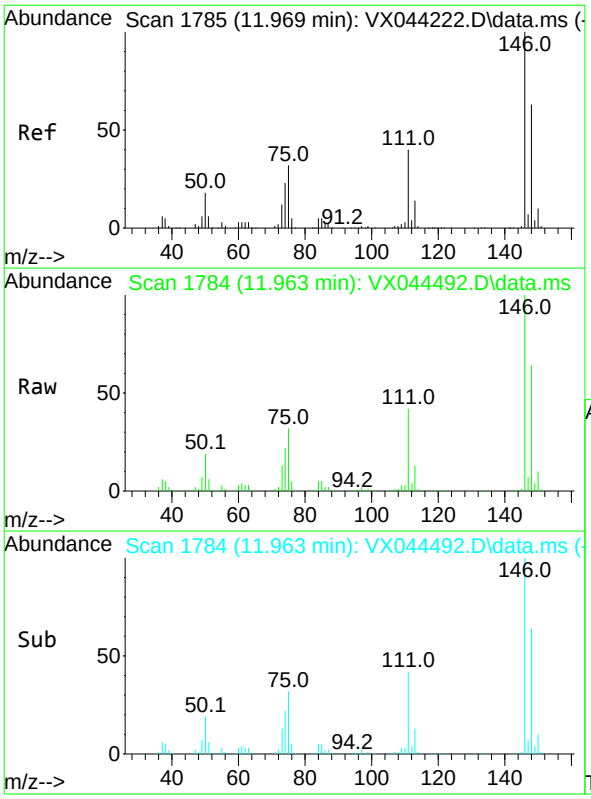


#86
p-Isopropyltoluene
Concen: 50.162 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:119 Resp: 309480

Ion	Ratio	Lower	Upper
119	100		
134	26.7	12.8	38.4
91	24.7	13.0	39.0

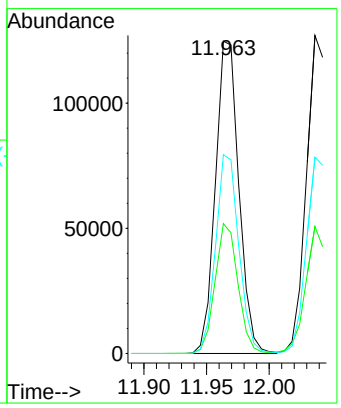




#87
1,3-Dichlorobenzene
Concen: 51.562 ug/l
RT: 11.963 min Scan# 17
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:146 Resp: 162721

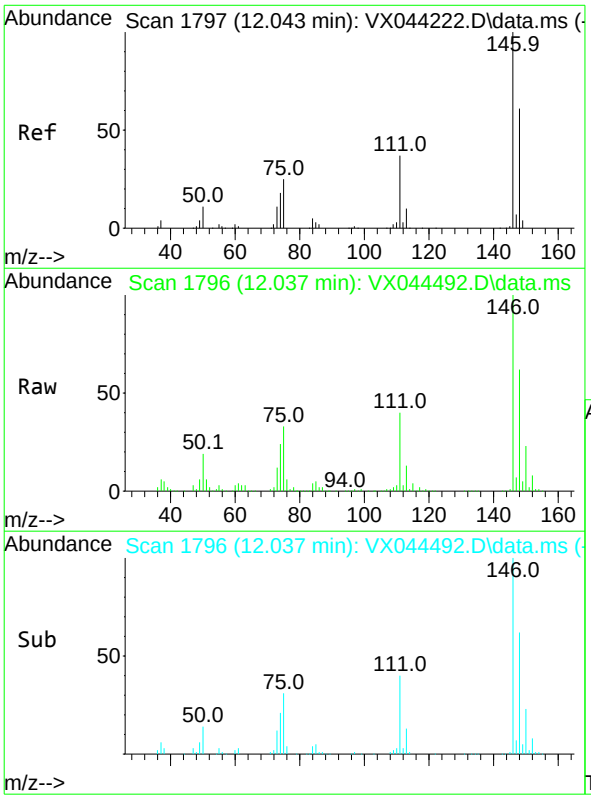
Ion	Ratio	Lower	Upper
146	100		
111	40.6	21.4	64.2
148	63.1	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

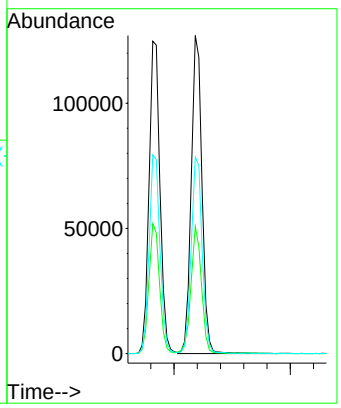
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

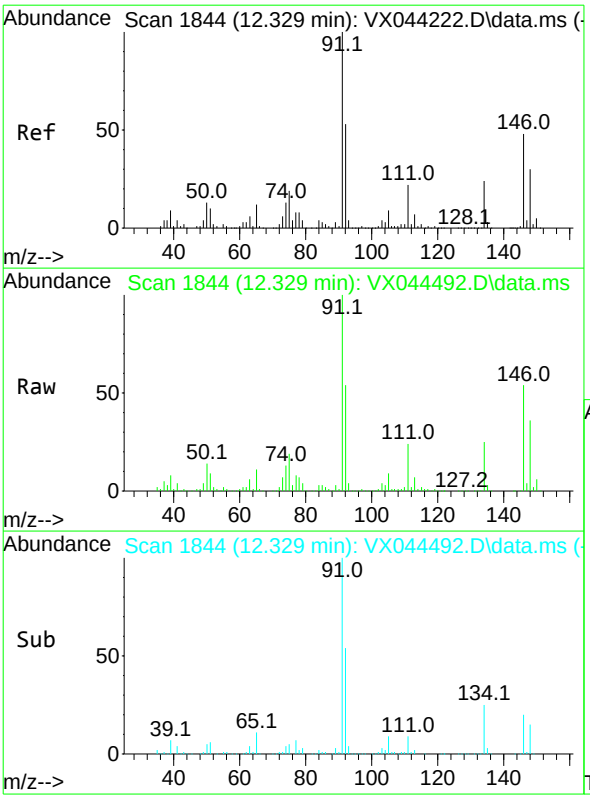


#88
1,4-Dichlorobenzene
Concen: 50.314 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:146 Resp: 163225

Ion	Ratio	Lower	Upper
146	100		
111	39.0	21.0	63.0
148	62.6	32.3	96.8





#89
n-Butylbenzene
Concen: 50.094 ug/l
RT: 12.329 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

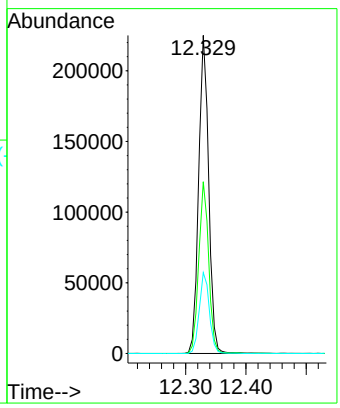
Tgt Ion: 91 Resp: 259880

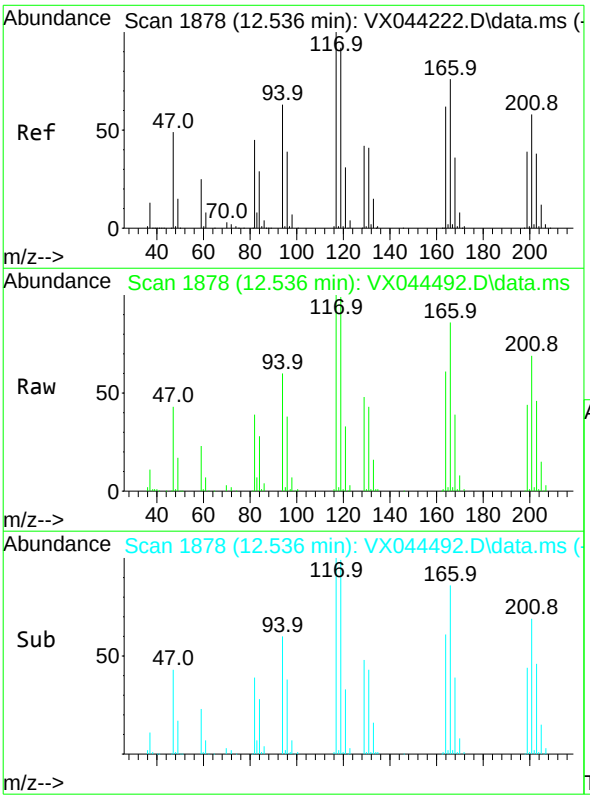
Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.6	79.7
134	25.7	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

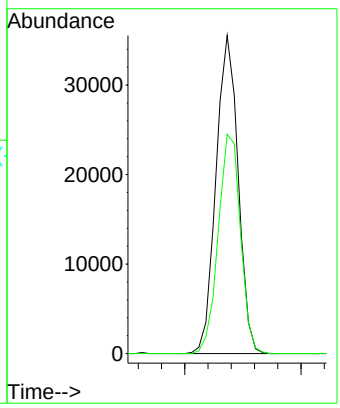


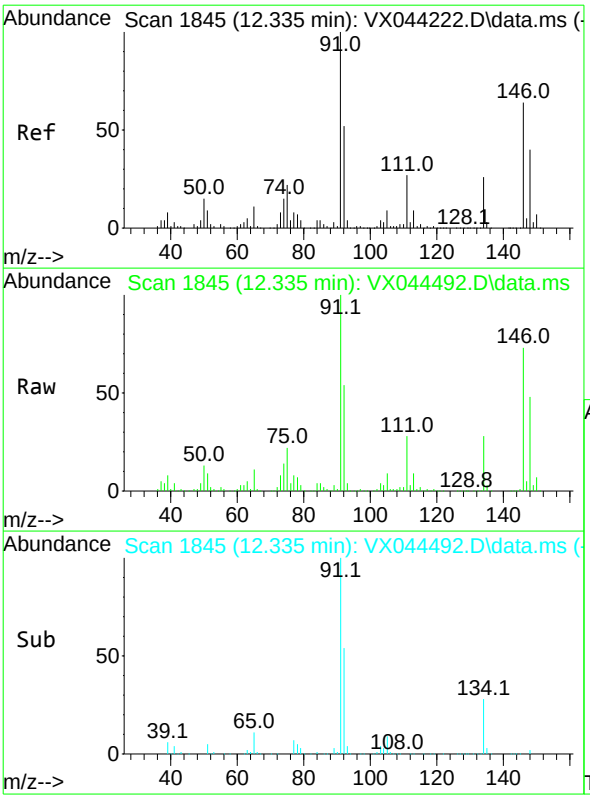


#90
Hexachloroethane
Concen: 52.126 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:117 Resp: 46945

Ion	Ratio	Lower	Upper
117	100		
201	69.5	31.4	94.2





#91
1,2-Dichlorobenzene
Concen: 49.511 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

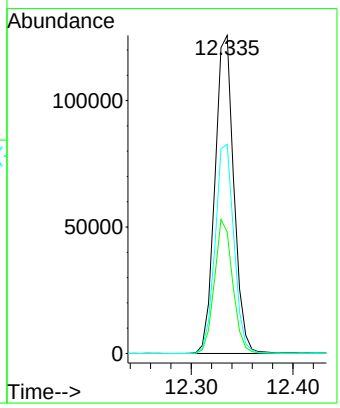
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

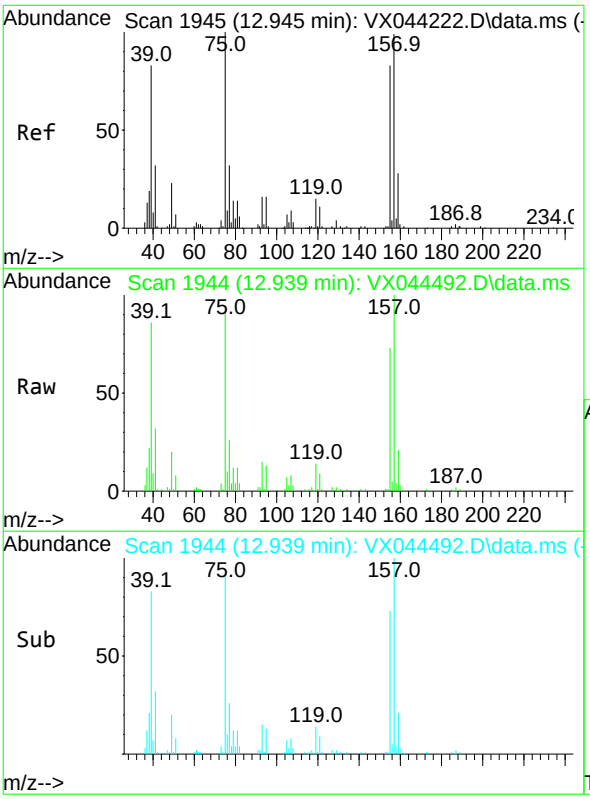
Tgt Ion:146 Resp: 162236

Ion	Ratio	Lower	Upper
146	100		
111	40.7	21.4	64.3
148	65.8	31.6	95.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

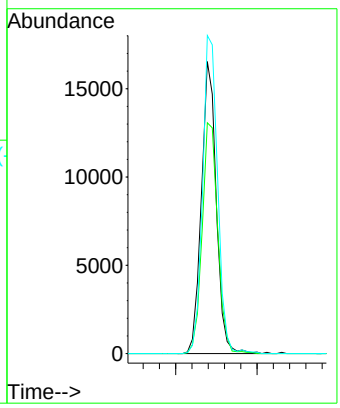


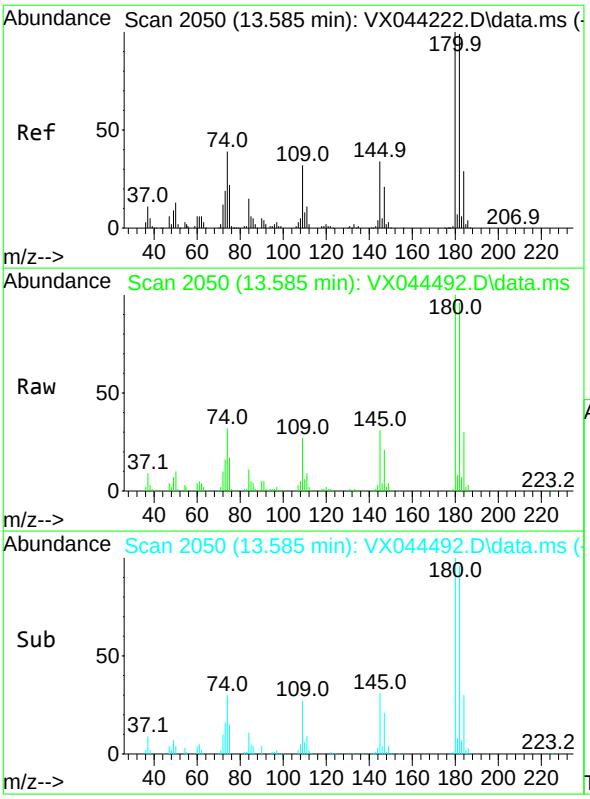


#92
1,2-Dibromo-3-Chloropropane
Concen: 41.860 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion: 75 Resp: 21028

Ion	Ratio	Lower	Upper
75	100		
155	82.7	38.1	114.3
157	110.0	47.2	141.6





#93
1,2,4-Trichlorobenzene
Concen: 54.137 ug/l
RT: 13.585 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

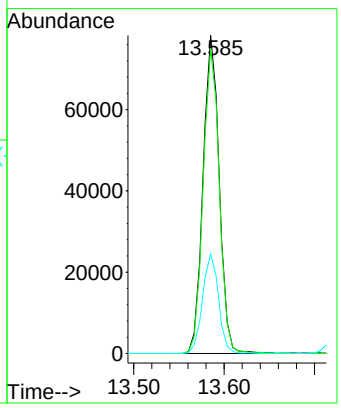
Tgt Ion:180 Resp: 97256

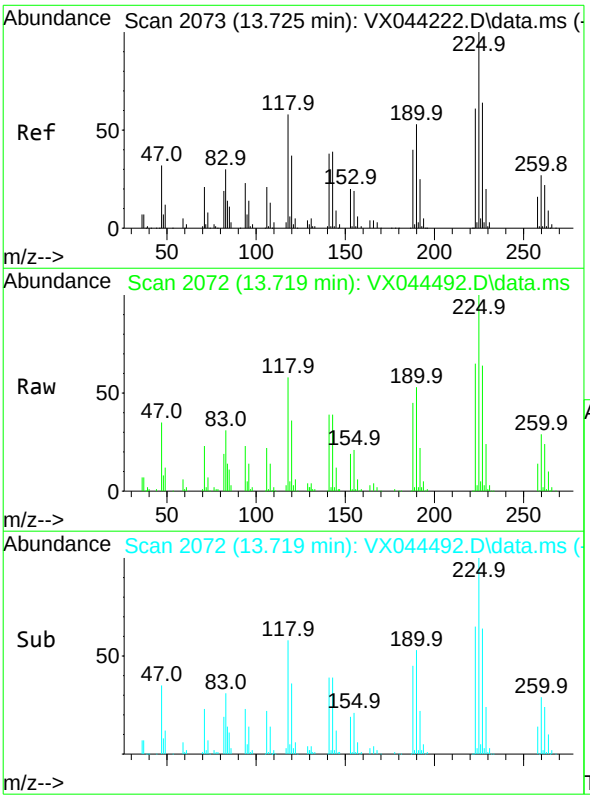
Ion	Ratio	Lower	Upper
180	100		
182	95.6	48.0	144.2
145	31.0	16.6	49.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

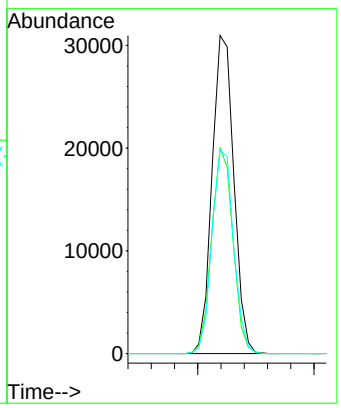


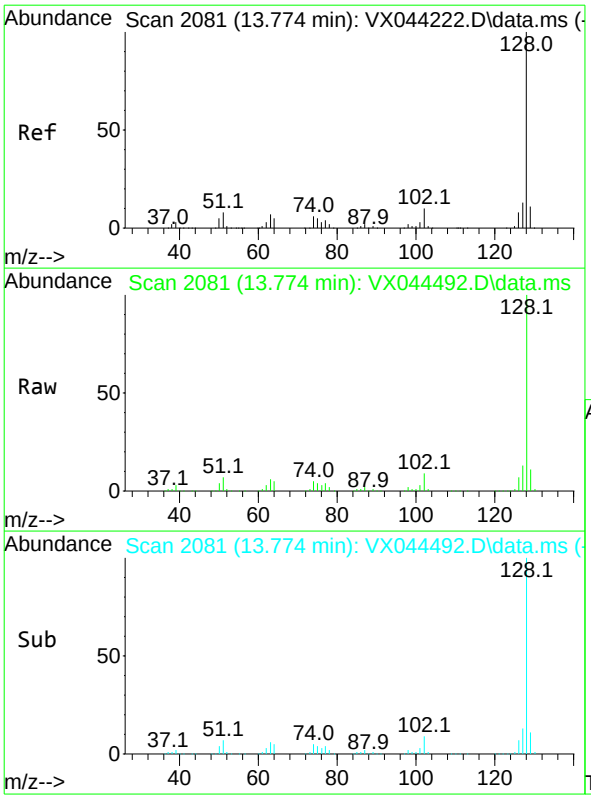


#94
Hexachlorobutadiene
Concen: 55.660 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:225 Resp: 40220

Ion	Ratio	Lower	Upper
225	100		
223	63.2	30.8	92.4
227	63.8	32.1	96.3





#95
Naphthalene
Concen: 45.897 ug/l
RT: 13.774 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

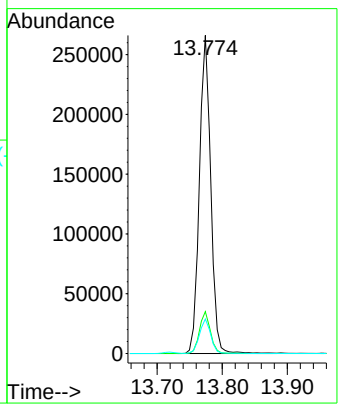
Tgt Ion:128 Resp: 321843

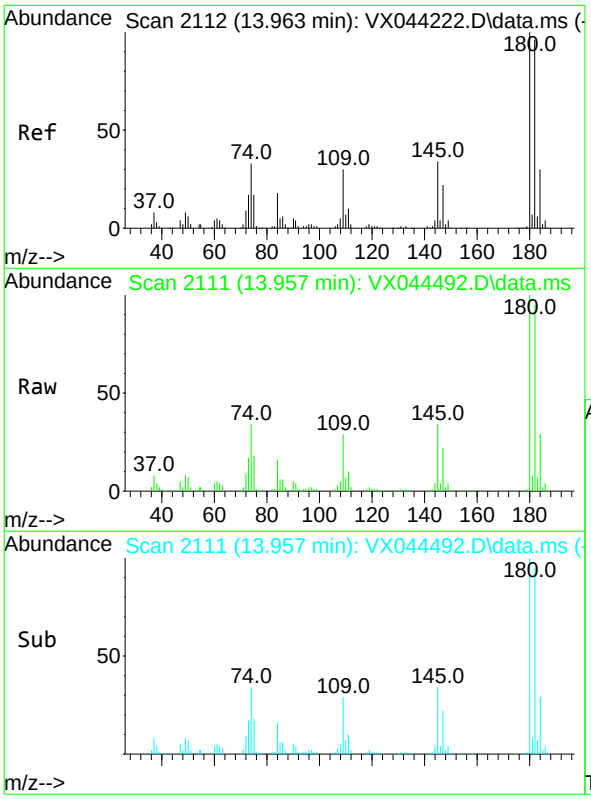
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.8	9.0	13.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

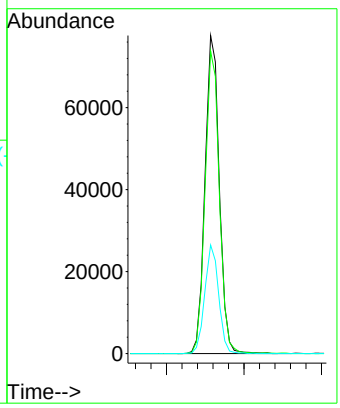




#96
1,2,3-Trichlorobenzene
Concen: 52.126 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044492.D
Acq: 23 Dec 2024 19:49

Tgt Ion:180 Resp: 99323

Ion	Ratio	Lower	Upper
180	100		
182	94.9	48.0	144.0
145	33.3	17.7	53.1



Sample Results: **VX044492.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044492.D
Acq On : 23 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 23 22:16:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	113	0.00
2	T	Dichlorodifluoromethane	0.773	0.700	9.4	100	0.00
3	P	Chloromethane	0.739	0.678	8.3	101	0.00
4	C	Vinyl Chloride	0.770	0.689	10.5#	99	0.00
5	T	Bromomethane	0.546	0.468	14.3	96	0.00
6	T	Chloroethane	0.480	0.442	7.9	94	0.00
7	T	Trichlorofluoromethane	1.508	1.069	29.1#	78	0.00
8	T	Diethyl Ether	0.515	0.405	21.4	89	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.610	0.551	9.7	101	0.00
10	T	Methyl Iodide	0.804	0.806	-0.2	107	0.00
11	T	Tert butyl alcohol	0.124	0.099	20.2	93	0.00
12	CM	1,1-Dichloroethene	0.560	0.531	5.2#	101	0.00
13	T	Acrolein	0.179	0.130	27.4#	79	0.00
14	T	Allyl chloride	0.933	0.833	10.7	93	0.00
15	T	Acrylonitrile	0.342	0.282	17.5	89	0.00
16	T	Acetone	0.357	0.251	29.7#	74	-0.01
17	T	Carbon Disulfide	1.065	0.983	7.7	97	0.00
18	T	Methyl Acetate	0.922	0.733	20.5	87	0.00
19	T	Methyl tert-butyl Ether	2.187	1.845	15.6	90	0.00
20	T	Methylene Chloride	0.671	0.623	7.2	102	0.00
21	T	trans-1,2-Dichloroethene	0.596	0.544	8.7	99	0.00
22	T	Diisopropyl ether	2.102	1.825	13.2	95	0.00
23	T	Vinyl Acetate	1.709	1.527	10.6	90	0.00
24	P	1,1-Dichloroethane	1.172	1.059	9.6	96	0.00
25	T	2-Butanone	0.508	0.382	24.8	79	0.00
26	T	2,2-Dichloropropane	0.952	0.844	11.3	91	0.00
27	T	cis-1,2-Dichloroethene	0.756	0.679	10.2	99	0.00
28	T	Bromochloromethane	0.575	0.456	20.7	87	0.00
29	T	Tetrahydrofuran	0.326	0.245	24.8	82	0.00
30	C	Chloroform	1.316	1.143	13.1#	96	0.00
31	T	Cyclohexane	0.946	0.810	14.4	94	0.00
32	T	1,1,1-Trichloroethane	1.093	0.986	9.8	95	0.00
33	S	1,2-Dichloroethane-d4	0.877	0.643	26.7#	79	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
35	S	Dibromofluoromethane	0.346	0.316	8.7	86	0.00
36	T	1,1-Dichloropropene	0.448	0.435	2.9	98	0.00
37	T	Ethyl Acetate	0.553	0.468	15.4	80	0.00
38	T	Carbon Tetrachloride	0.482	0.477	1.0	95	0.00
39	T	Methylcyclohexane	0.535	0.537	-0.4	97	0.00
40	TM	Benzene	1.359	1.392	-2.4	99	0.00
41	T	Methacrylonitrile	0.294	0.250	15.0	83	0.00
42	TM	1,2-Dichloroethane	0.560	0.534	4.6	91	0.00
43	T	Isopropyl Acetate	0.865	0.762	11.9	83	0.00
44	TM	Trichloroethene	0.339	0.355	-4.7	102	0.00
45	C	1,2-Dichloropropane	0.347	0.352	-1.4#	98	0.00
46	T	Dibromomethane	0.269	0.275	-2.2	96	0.00
47	T	Bromodichloromethane	0.465	0.489	-5.2	96	0.00
48	T	Methyl methacrylate	0.420	0.368	12.4	83	0.00

Sample Results: **VX044492.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044492.D
Acq On : 23 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 23 22:16:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.007	0.0	91	0.00
50	S	Toluene-d8	1.168	1.039	11.0	83	0.00
51	T	4-Methyl-2-Pentanone	0.556	0.477	14.2	81	0.00
52	CM	Toluene	0.853	0.862	-1.1#	98	0.00
53	T	t-1,3-Dichloropropene	0.455	0.469	-3.1	91	0.00
54	T	cis-1,3-Dichloropropene	0.507	0.529	-4.3	93	0.00
55	T	1,1,2-Trichloroethane	0.339	0.347	-2.4	97	0.00
56	T	Ethyl methacrylate	0.535	0.508	5.0	88	0.00
57	T	1,3-Dichloropropane	0.590	0.578	2.0	94	0.00
58	T	2-Chloroethyl Vinyl ether	0.270	0.226	16.3	77	0.00
59	T	2-Hexanone	0.403	0.346	14.1	79	0.00
60	T	Dibromochloromethane	0.326	0.351	-7.7	95	0.00
61	T	1,2-Dibromoethane	0.345	0.357	-3.5	97	0.00
62	S	4-Bromofluorobenzene	0.408	0.358	12.3	81	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
64	T	Tetrachloroethene	0.332	0.362	-9.0	110	0.00
65	PM	Chlorobenzene	1.071	1.103	-3.0	99	0.00
66	T	1,1,1,2-Tetrachloroethane	0.344	0.376	-9.3	98	0.00
67	C	Ethyl Benzene	1.851	1.878	-1.5#	95	0.00
68	T	m/p-Xylenes	0.679	0.714	-5.2	99	0.00
69	T	o-Xylene	0.687	0.708	-3.1	98	0.00
70	T	Styrene	1.102	1.181	-7.2	99	0.00
71	P	Bromoform	0.219	0.245	-11.9	97	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73	T	Isopropylbenzene	3.828	3.728	2.6	97	0.00
74	T	N-amyl acetate	1.769	1.565	11.5	83	0.00
75	P	1,1,2,2-Tetrachloroethane	1.329	1.216	8.5	93	0.00
76	T	1,2,3-Trichloropropane	1.116	0.985	11.7	90	0.00
77	T	Bromobenzene	0.928	0.937	-1.0	102	0.00
78	T	n-propylbenzene	4.231	4.235	-0.1	96	0.00
79	T	2-Chlorotoluene	2.736	2.583	5.6	95	0.00
80	T	1,3,5-Trimethylbenzene	3.174	3.087	2.7	95	0.00
81	T	trans-1,4-Dichloro-2-butene	0.347	0.317	8.6	88	0.00
82	T	4-Chlorotoluene	3.030	2.914	3.8	96	0.00
83	T	tert-Butylbenzene	3.137	3.150	-0.4	99	0.00
84	T	1,2,4-Trimethylbenzene	3.117	3.140	-0.7	98	0.00
85	T	sec-Butylbenzene	3.808	3.776	0.8	97	0.00
86	T	p-Isopropyltoluene	3.170	3.180	-0.3	97	0.00
87	T	1,3-Dichlorobenzene	1.621	1.672	-3.1	102	0.00
88	T	1,4-Dichlorobenzene	1.667	1.677	-0.6	102	0.00
89	T	n-Butylbenzene	2.665	2.670	-0.2	96	0.00
90	T	Hexachloroethane	0.463	0.482	-4.1	97	0.00
91	T	1,2-Dichlorobenzene	1.683	1.667	1.0	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.258	0.216	16.3	81	0.00
93	T	1,2,4-Trichlorobenzene	0.923	0.999	-8.2	104	0.00
94	T	Hexachlorobutadiene	0.371	0.413	-11.3	114	0.00
95	T	Naphthalene	3.603	3.307	8.2	88	0.00

Sample Results: **VX044492.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044492.D
Acq On : 23 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 23 22:16:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.979	1.021	-4.3	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VX044492.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044492.D
Acq On : 23 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 23 22:16:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	113	0.00
2	T	Dichlorodifluoromethane	50.000	45.252	9.5	100	0.00
3	P	Chloromethane	50.000	45.851	8.3	101	0.00
4	C	Vinyl Chloride	50.000	44.703	10.6#	99	0.00
5	T	Bromomethane	50.000	42.791	14.4	96	0.00
6	T	Chloroethane	50.000	46.048	7.9	94	0.00
7	T	Trichlorofluoromethane	50.000	35.446	29.1#	78	0.00
8	T	Diethyl Ether	50.000	39.343	21.3	89	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	45.146	9.7	101	0.00
10	T	Methyl Iodide	50.000	50.107	-0.2	107	0.00
11	T	Tert butyl alcohol	250.000	200.889	19.6	93	0.00
12	CM	1,1-Dichloroethene	50.000	47.404	5.2#	101	0.00
13	T	Acrolein	250.000	181.285	27.5#	79	0.00
14	T	Allyl chloride	50.000	44.605	10.8	93	0.00
15	T	Acrylonitrile	250.000	206.319	17.5	89	0.00
16	T	Acetone	250.000	175.552	29.8#	74	-0.01
17	T	Carbon Disulfide	50.000	46.135	7.7	97	0.00
18	T	Methyl Acetate	50.000	39.750	20.5	87	0.00
19	T	Methyl tert-butyl Ether	50.000	42.170	15.7	90	0.00
20	T	Methylene Chloride	50.000	46.423	7.2	102	0.00
21	T	trans-1,2-Dichloroethene	50.000	45.648	8.7	99	0.00
22	T	Diisopropyl ether	50.000	43.412	13.2	95	0.00
23	T	Vinyl Acetate	250.000	223.409	10.6	90	0.00
24	P	1,1-Dichloroethane	50.000	45.194	9.6	96	0.00
25	T	2-Butanone	250.000	188.131	24.7	79	0.00
26	T	2,2-Dichloropropane	50.000	44.358	11.3	91	0.00
27	T	cis-1,2-Dichloroethene	50.000	44.871	10.3	99	0.00
28	T	Bromochloromethane	50.000	39.671	20.7	87	0.00
29	T	Tetrahydrofuran	250.000	187.586	25.0	82	0.00
30	C	Chloroform	50.000	43.416	13.2#	96	0.00
31	T	Cyclohexane	50.000	42.794	14.4	94	0.00
32	T	1,1,1-Trichloroethane	50.000	45.118	9.8	95	0.00
33	S	1,2-Dichloroethane-d4	50.000	36.671	26.7#	79	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
35	S	Dibromofluoromethane	50.000	45.677	8.6	86	0.00
36	T	1,1-Dichloropropene	50.000	48.625	2.8	98	0.00
37	T	Ethyl Acetate	50.000	42.249	15.5	80	0.00
38	T	Carbon Tetrachloride	50.000	49.513	1.0	95	0.00
39	T	Methylcyclohexane	50.000	50.139	-0.3	97	0.00
40	TM	Benzene	50.000	51.229	-2.5	99	0.00
41	T	Methacrylonitrile	50.000	42.511	15.0	83	0.00
42	TM	1,2-Dichloroethane	50.000	47.653	4.7	91	0.00
43	T	Isopropyl Acetate	50.000	44.034	11.9	83	0.00
44	TM	Trichloroethene	50.000	52.353	-4.7	102	0.00
45	C	1,2-Dichloropropane	50.000	50.659	-1.3#	98	0.00
46	T	Dibromomethane	50.000	50.998	-2.0	96	0.00
47	T	Bromodichloromethane	50.000	52.527	-5.1	96	0.00
48	T	Methyl methacrylate	50.000	43.837	12.3	83	0.00

Sample Results: **VX044492.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044492.D
Acq On : 23 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 23 22:16:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	982.728	1.7	91	0.00
50	S	Toluene-d8	50.000	44.446	11.1	83	0.00
51	T	4-Methyl-2-Pentanone	250.000	214.305	14.3	81	0.00
52	CM	Toluene	50.000	50.524	-1.0#	98	0.00
53	T	t-1,3-Dichloropropene	50.000	47.186	5.6	91	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.242	-4.5	93	0.00
55	T	1,1,2-Trichloroethane	50.000	51.140	-2.3	97	0.00
56	T	Ethyl methacrylate	50.000	47.418	5.2	88	0.00
57	T	1,3-Dichloropropane	50.000	48.972	2.1	94	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	209.048	16.4	77	0.00
59	T	2-Hexanone	250.000	214.776	14.1	79	0.00
60	T	Dibromochloromethane	50.000	48.943	2.1	95	0.00
61	T	1,2-Dibromoethane	50.000	51.675	-3.3	97	0.00
62	S	4-Bromofluorobenzene	50.000	43.908	12.2	81	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	98	0.00
64	T	Tetrachloroethene	50.000	54.558	-9.1	110	0.00
65	PM	Chlorobenzene	50.000	51.470	-2.9	99	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	54.615	-9.2	98	0.00
67	C	Ethyl Benzene	50.000	50.731	-1.5#	95	0.00
68	T	m/p-Xylenes	100.000	105.040	-5.0	99	0.00
69	T	o-Xylene	50.000	51.527	-3.1	98	0.00
70	T	Styrene	50.000	53.584	-7.2	99	0.00
71	P	Bromoform	50.000	50.746	-1.5	97	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73	T	Isopropylbenzene	50.000	48.696	2.6	97	0.00
74	T	N-amyl acetate	50.000	44.229	11.5	83	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	45.716	8.6	93	0.00
76	T	1,2,3-Trichloropropane	50.000	44.099	11.8	90	0.00
77	T	Bromobenzene	50.000	50.455	-0.9	102	0.00
78	T	n-propylbenzene	50.000	50.048	-0.1	96	0.00
79	T	2-Chlorotoluene	50.000	47.209	5.6	95	0.00
80	T	1,3,5-Trimethylbenzene	50.000	48.618	2.8	95	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	41.730	16.5	88	0.00
82	T	4-Chlorotoluene	50.000	48.094	3.8	96	0.00
83	T	tert-Butylbenzene	50.000	50.203	-0.4	99	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.368	-0.7	98	0.00
85	T	sec-Butylbenzene	50.000	49.579	0.8	97	0.00
86	T	p-Isopropyltoluene	50.000	50.162	-0.3	97	0.00
87	T	1,3-Dichlorobenzene	50.000	51.562	-3.1	102	0.00
88	T	1,4-Dichlorobenzene	50.000	50.314	-0.6	102	0.00
89	T	n-Butylbenzene	50.000	50.094	-0.2	96	0.00
90	T	Hexachloroethane	50.000	52.126	-4.3	97	0.00
91	T	1,2-Dichlorobenzene	50.000	49.511	1.0	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	41.860	16.3	81	0.00
93	T	1,2,4-Trichlorobenzene	50.000	54.137	-8.3	104	0.00
94	T	Hexachlorobutadiene	50.000	55.660	-11.3	114	0.00
95	T	Naphthalene	50.000	45.897	8.2	88	0.00

Sample Results: **VX044492.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044492.D
Acq On : 23 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 23 22:16:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.126	-4.3	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

QC SAMPLE DATA

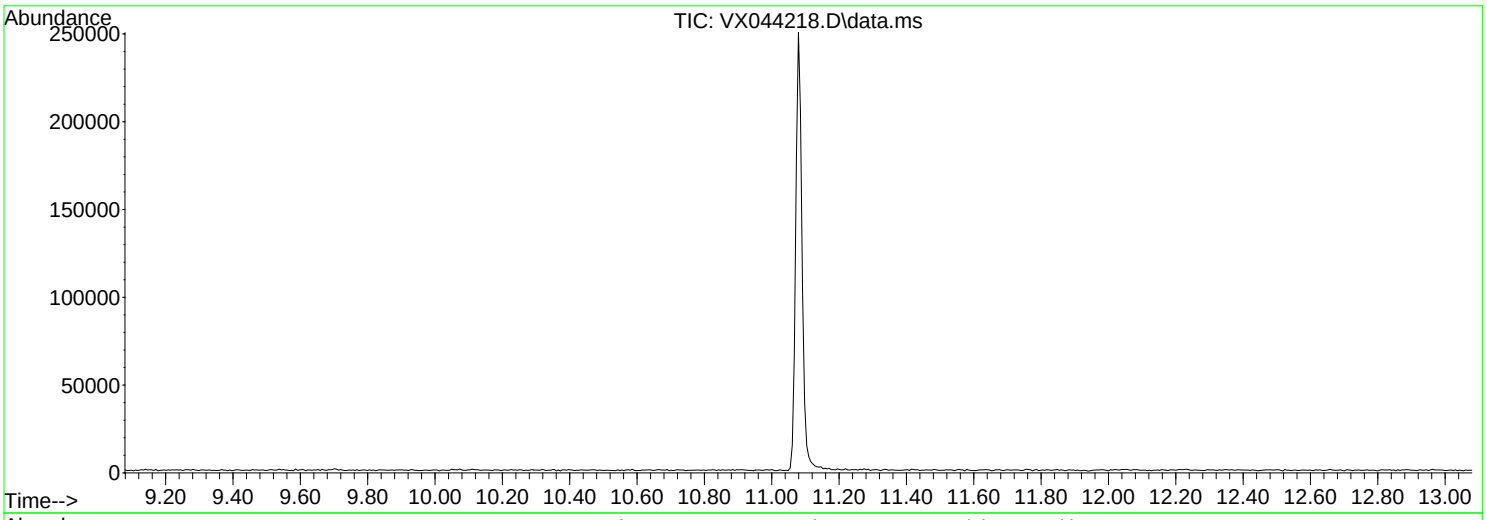
Sample Results: **VX044218.D**

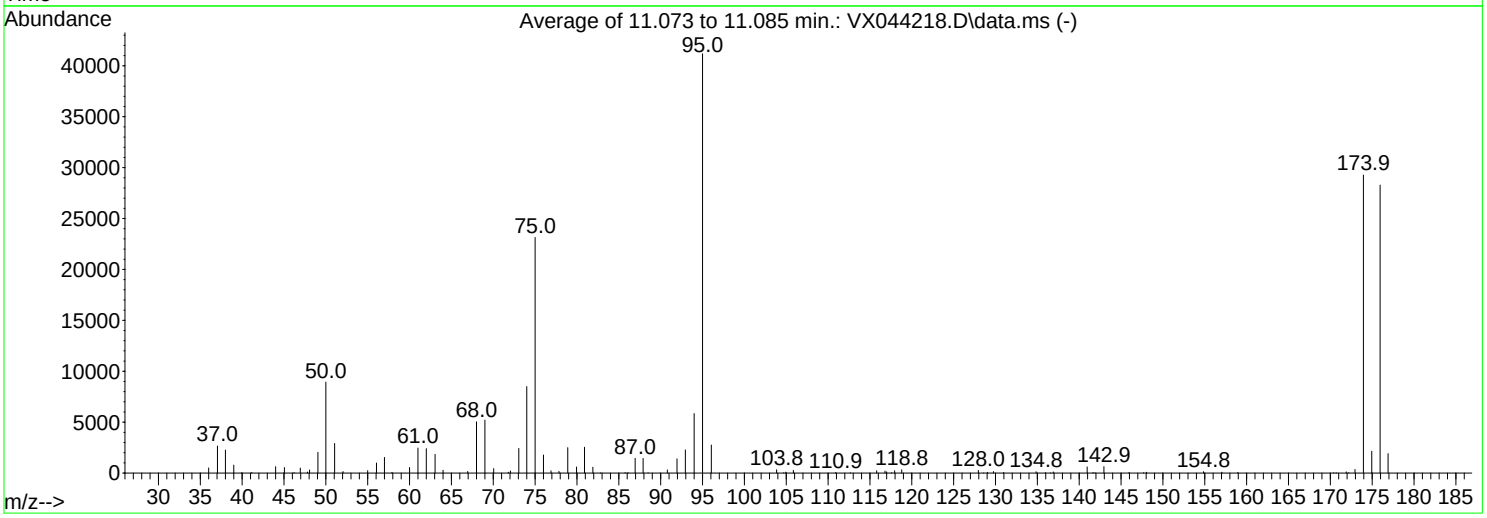
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044218.D
Acq On : 11 Dec 2024 10:13
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Title : SW846 8260
Last Update : Thu Dec 12 04:28:14 2024





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	8939	PASS
75	95	30	60	56.2	23141	PASS
95	95	100	100	100.0	41184	PASS
96	95	5	9	6.7	2759	PASS
173	174	0.00	2	1.2	353	PASS
174	95	50	100	71.1	29272	PASS
175	174	5	9	7.3	2147	PASS
176	174	95	101	96.6	28285	PASS
177	176	5	9	6.8	1915	PASS

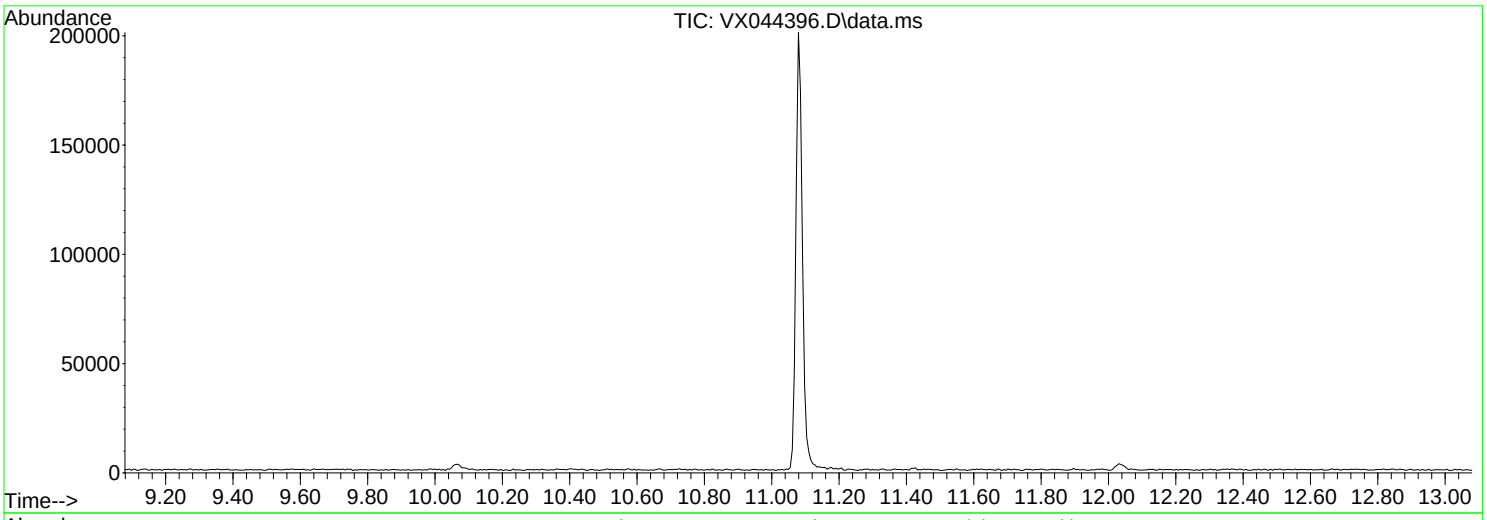
Sample Results: **VX044396.D**

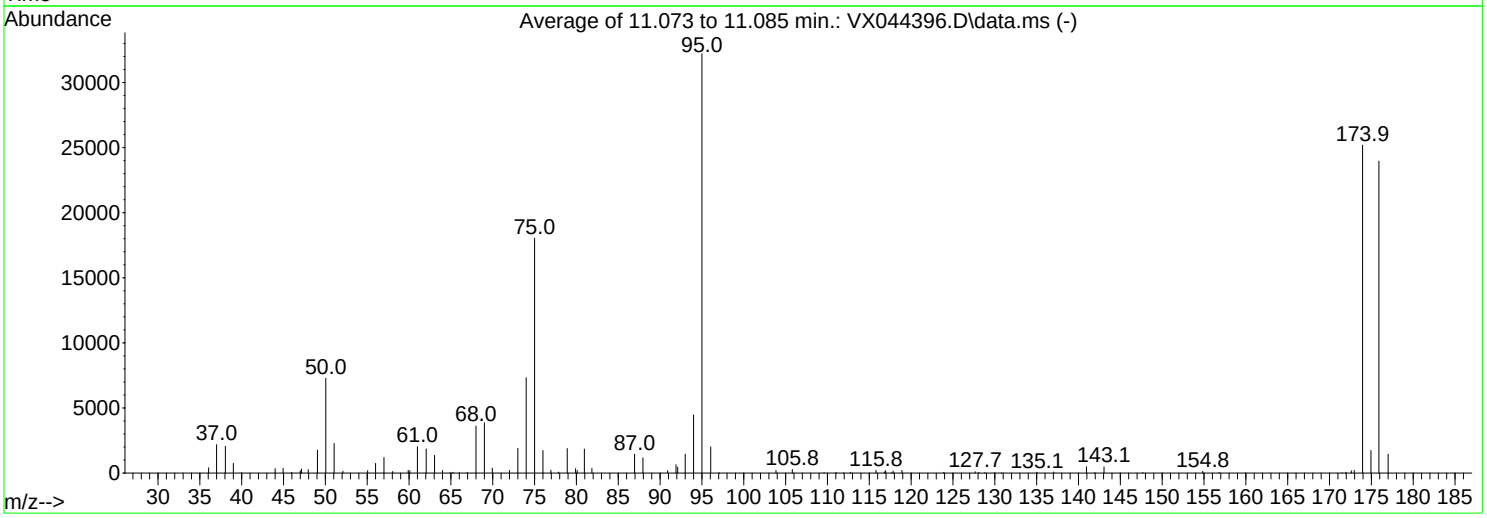
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044396.D
Acq On : 18 Dec 2024 21:02
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Title : SW846 8260
Last Update : Thu Dec 12 04:28:14 2024





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.6	7276	PASS
75	95	30	60	56.0	18037	PASS
95	95	100	100	100.0	32211	PASS
96	95	5	9	6.3	2019	PASS
173	174	0.00	2	0.8	212	PASS
174	95	50	100	78.2	25192	PASS
175	174	5	9	6.9	1737	PASS
176	174	95	101	95.1	23969	PASS
177	176	5	9	6.1	1454	PASS

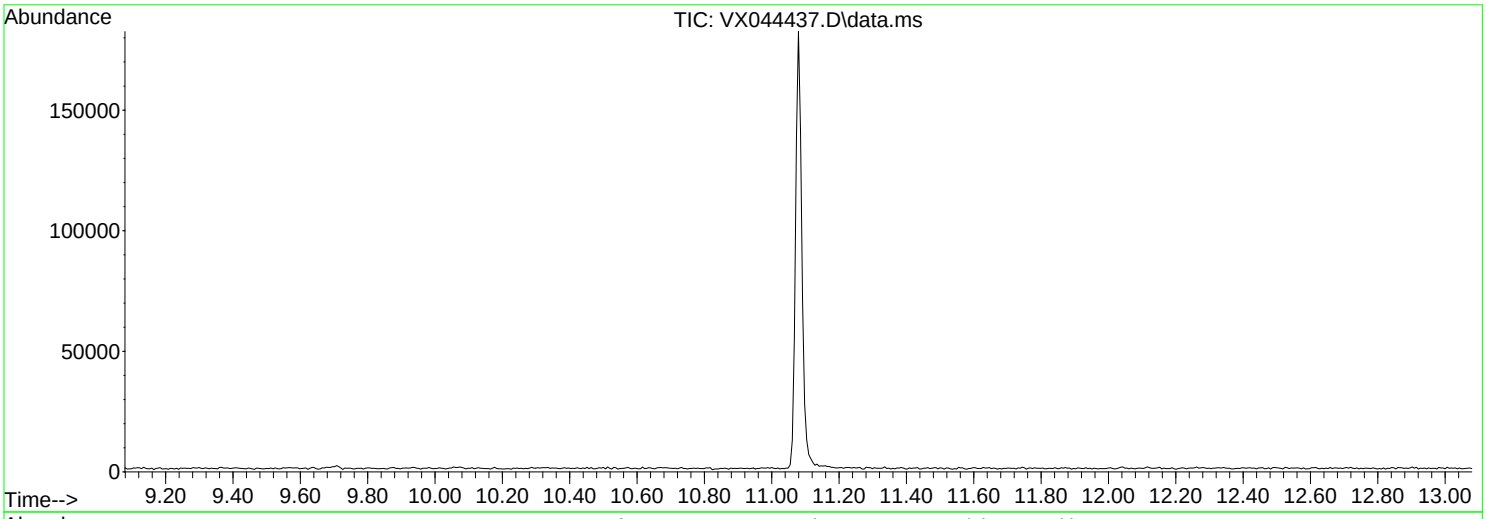
Sample Results: **VX044437.D**

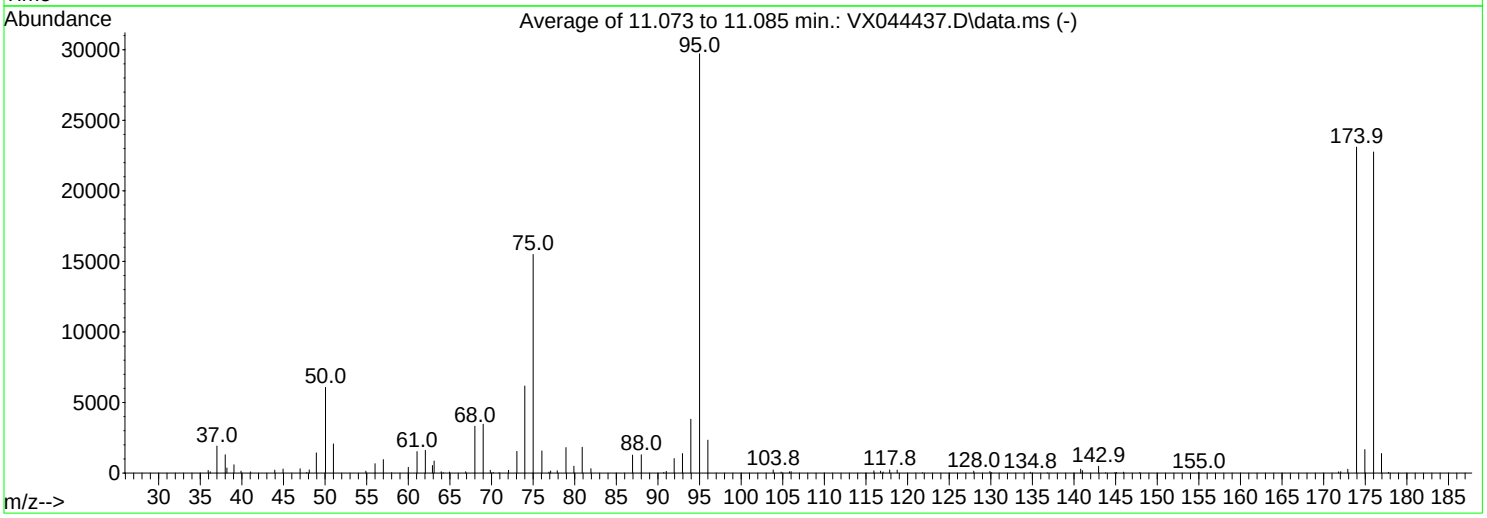
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044437.D
Acq On : 20 Dec 2024 08:49
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Title : SW846 8260
Last Update : Thu Dec 12 04:28:14 2024





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.4	6077	PASS
75	95	30	60	52.1	15496	PASS
95	95	100	100	100.0	29717	PASS
96	95	5	9	7.8	2332	PASS
173	174	0.00	2	1.2	275	PASS
174	95	50	100	77.7	23101	PASS
175	174	5	9	7.2	1663	PASS
176	174	95	101	98.5	22752	PASS
177	176	5	9	6.1	1389	PASS

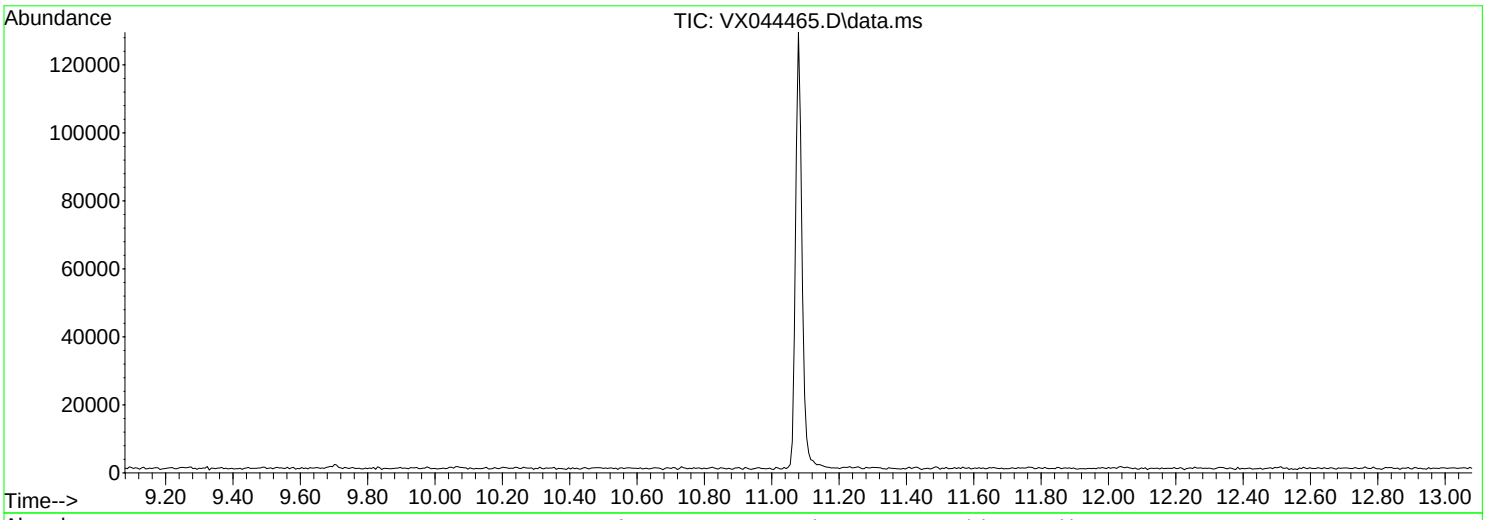
Sample Results: **VX044465.D**

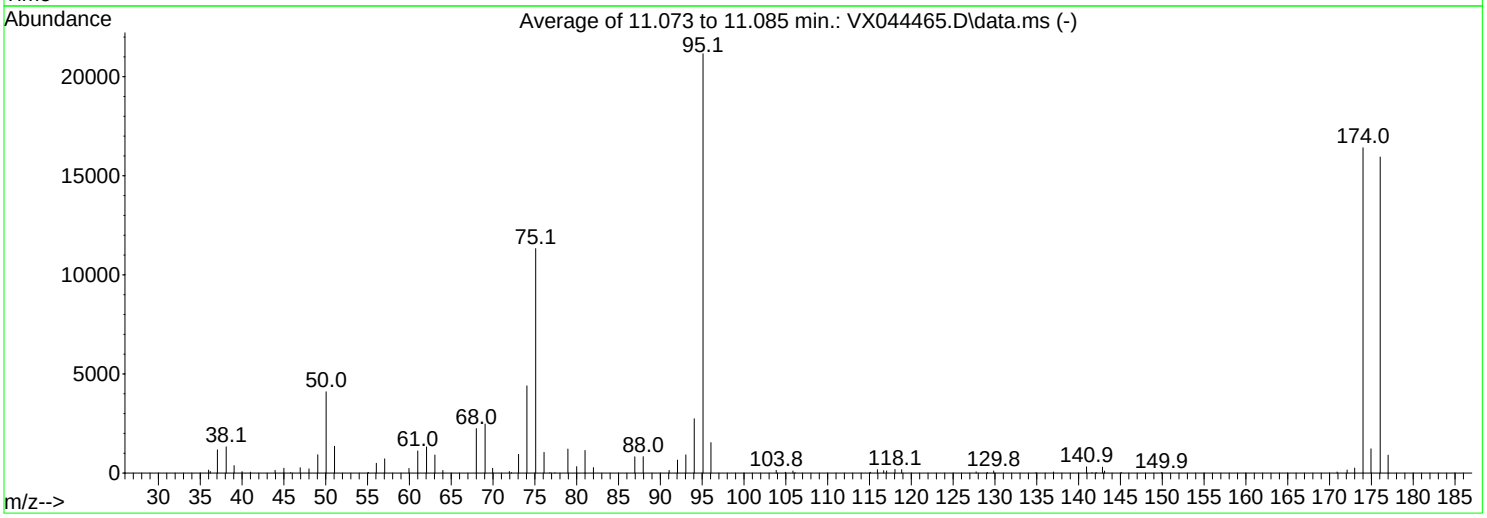
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044465.D
Acq On : 23 Dec 2024 08:19
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Title : SW846 8260
Last Update : Thu Dec 12 04:28:14 2024





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.4	4103	PASS
75	95	30	60	53.5	11324	PASS
95	95	100	100	100.0	21157	PASS
96	95	5	9	7.3	1537	PASS
173	174	0.00	2	1.5	252	PASS
174	95	50	100	77.6	16412	PASS
175	174	5	9	7.5	1224	PASS
176	174	95	101	97.2	15947	PASS
177	176	5	9	5.7	905	PASS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1218WBL02	SDG No.:	P5317
Lab Sample ID:	VX1218WBL02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044398.D	1		12/18/24 22:59	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1218WBL02	SDG No.:	P5317
Lab Sample ID:	VX1218WBL02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044398.D	1		12/18/24 22:59	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.6		81 - 118		87%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	51.9		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	115000	5.55				
540-36-3	1,4-Difluorobenzene	207000	6.757				
3114-55-4	Chlorobenzene-d5	183000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	77400	12.018				

Raw Data: **VX044398.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1218WBL02	SDG No.:	P5317
Lab Sample ID:	VX1218WBL02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044398.D	1		12/18/24 22:59	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044398.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044398.D
Acq On : 18 Dec 2024 22:59
Operator : JC/MD
Sample : VX1218WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBL02

Quant Time: Dec 19 00:55:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

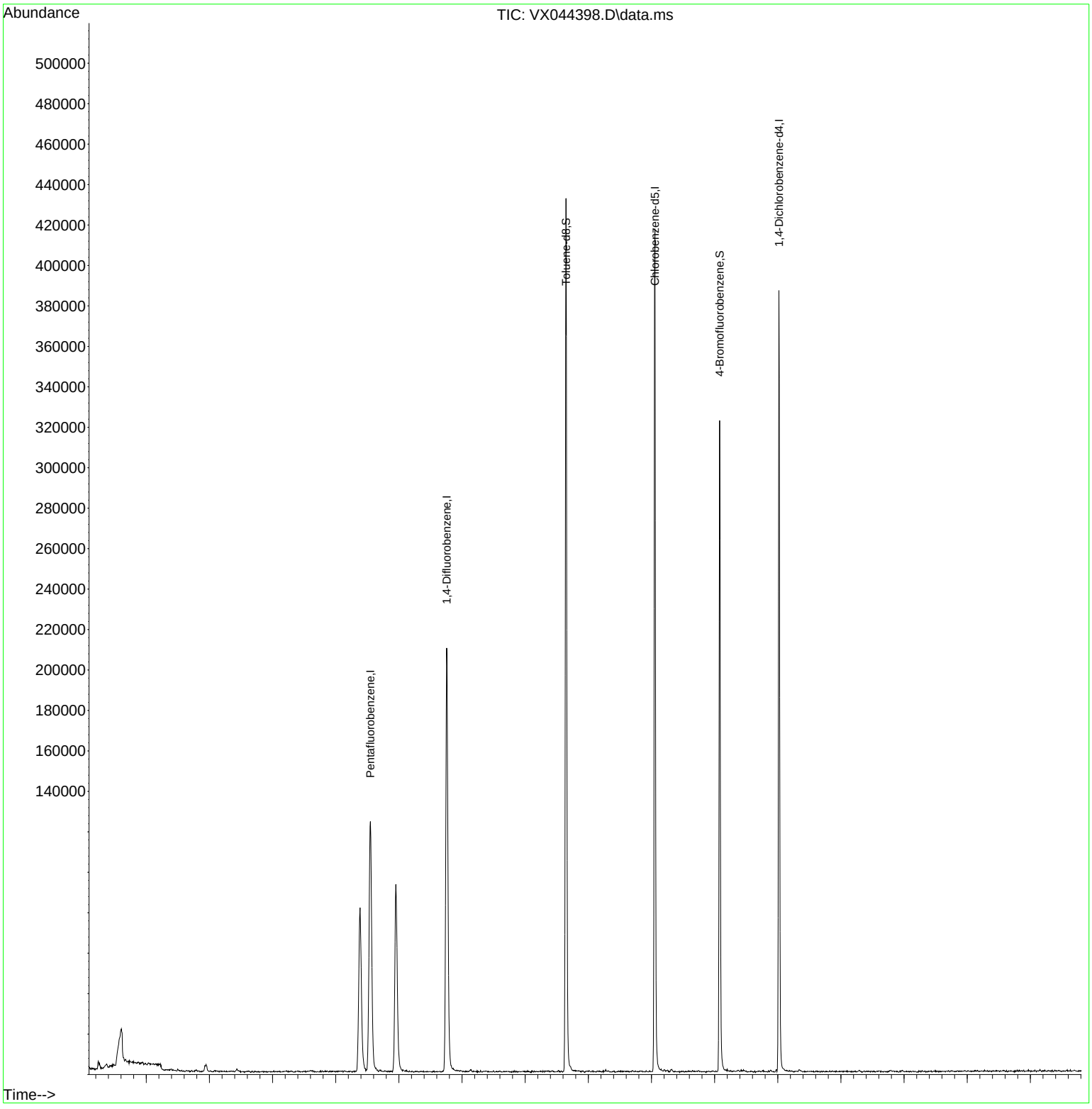
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	114674	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	206506	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	183436	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	77360	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	87580	43.559	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 87.120%			
35) Dibromofluoromethane	5.385	113	69034	48.267	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.540%			
50) Toluene-d8	8.647	98	250627	51.941	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.880%			
62) 4-Bromofluorobenzene	11.079	95	81340	48.243	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.480%			
Target Compounds						Qvalue

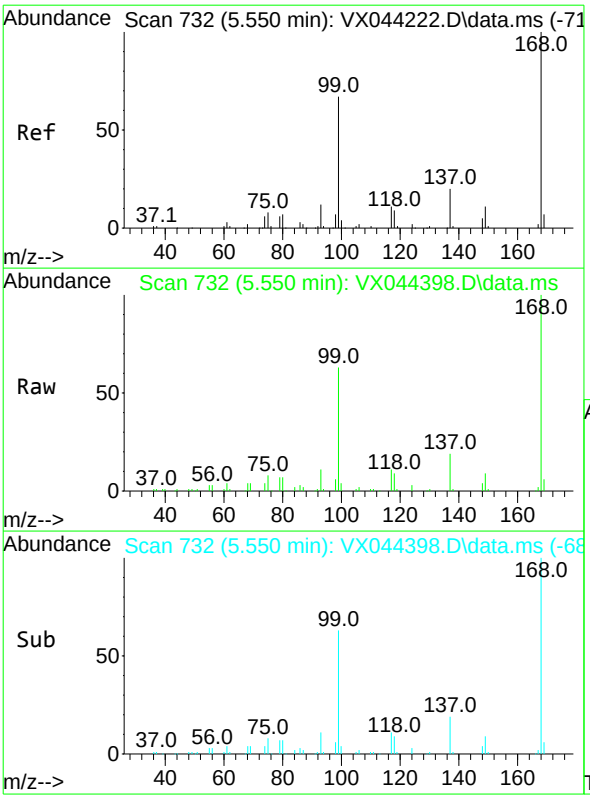
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044398.D
Acq On : 18 Dec 2024 22:59
Operator : JC/MD
Sample : VX1218WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBL02

Quant Time: Dec 19 00:55:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



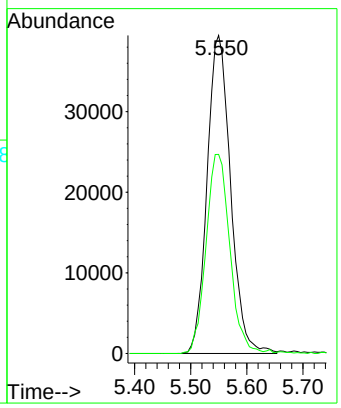


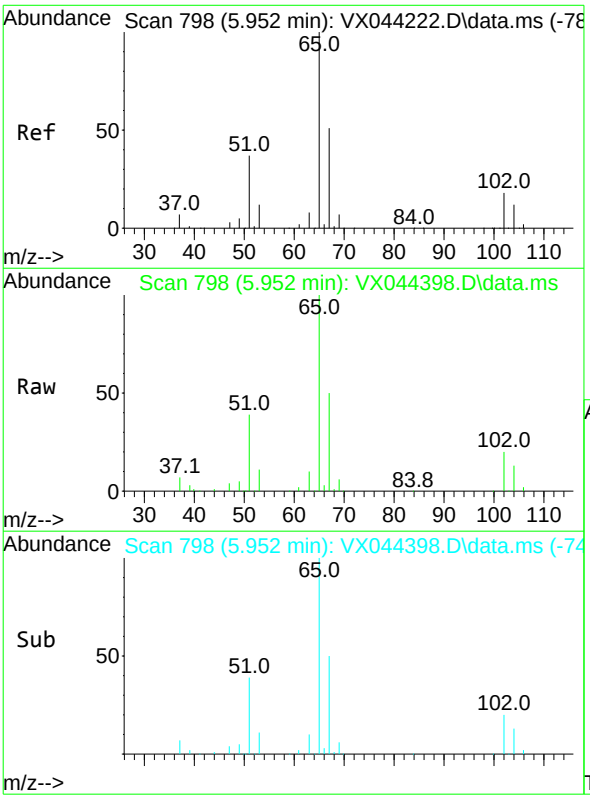
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044398.D
Acq: 18 Dec 2024 22:59

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBL02

Tgt Ion:168 Resp: 114674

Ion	Ratio	Lower	Upper
168	100		
99	62.6	53.4	80.0

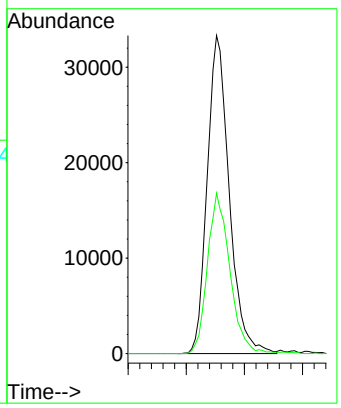


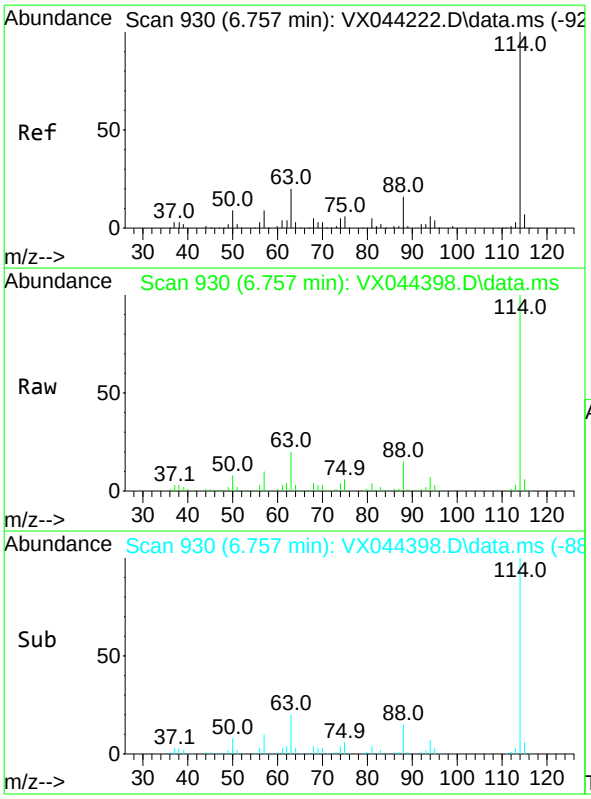


#33
1,2-Dichloroethane-d4
Concen: 43.559 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044398.D
Acq: 18 Dec 2024 22:59

Tgt Ion: 65 Resp: 87580

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	101.6



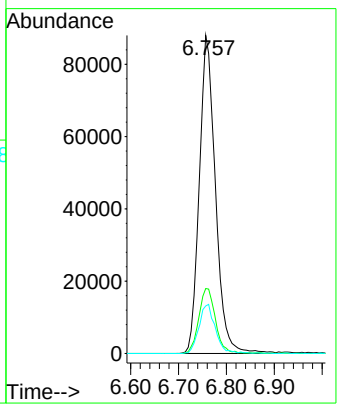


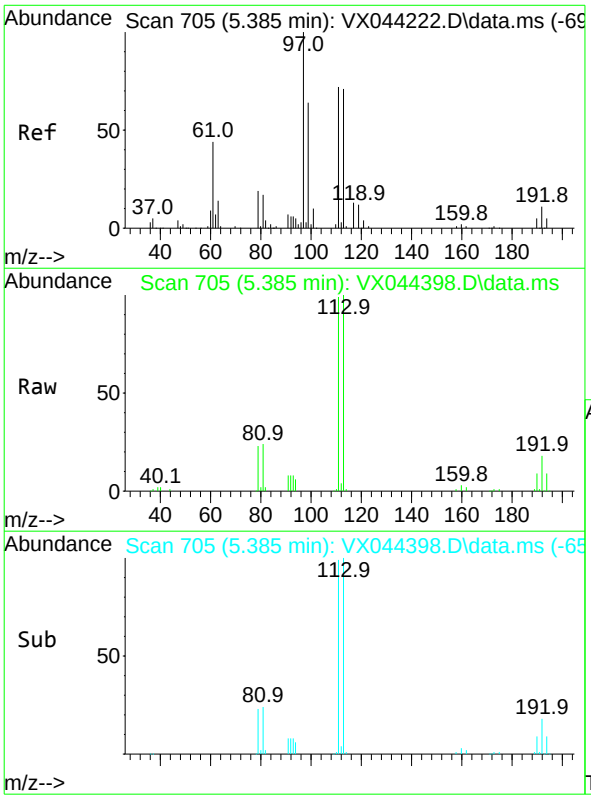
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044398.D
Acq: 18 Dec 2024 22:59

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBL02

Tgt Ion:114 Resp: 206506

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.6
88	14.9	0.0	31.8

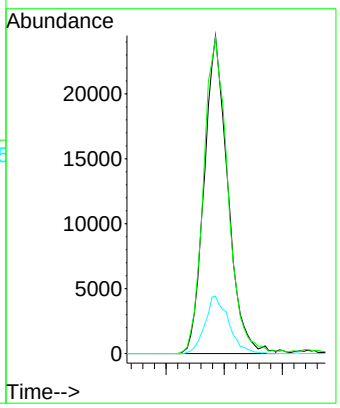


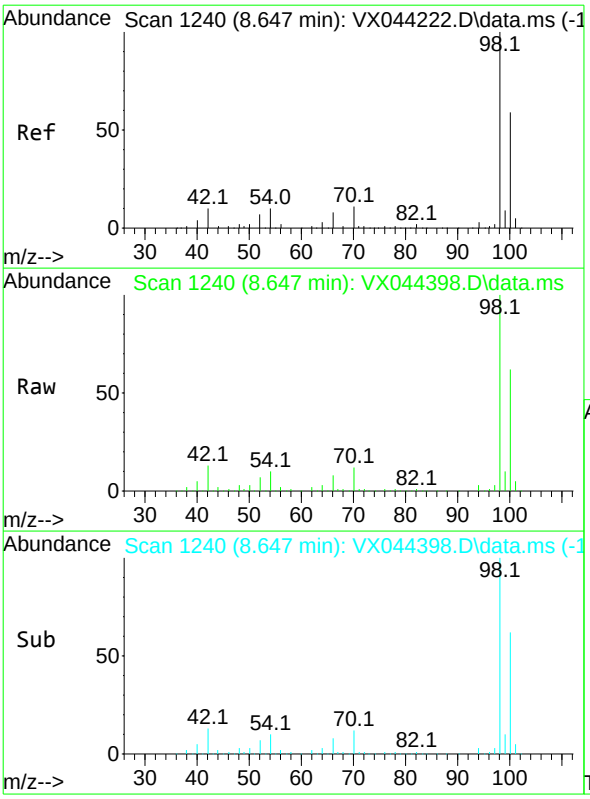


#35
Dibromofluoromethane
Concen: 48.267 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX044398.D
Acq: 18 Dec 2024 22:59

Tgt Ion:113 Resp: 69034

Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.4	120.6
192	18.2	13.3	19.9



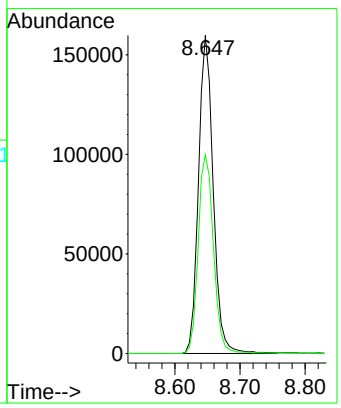


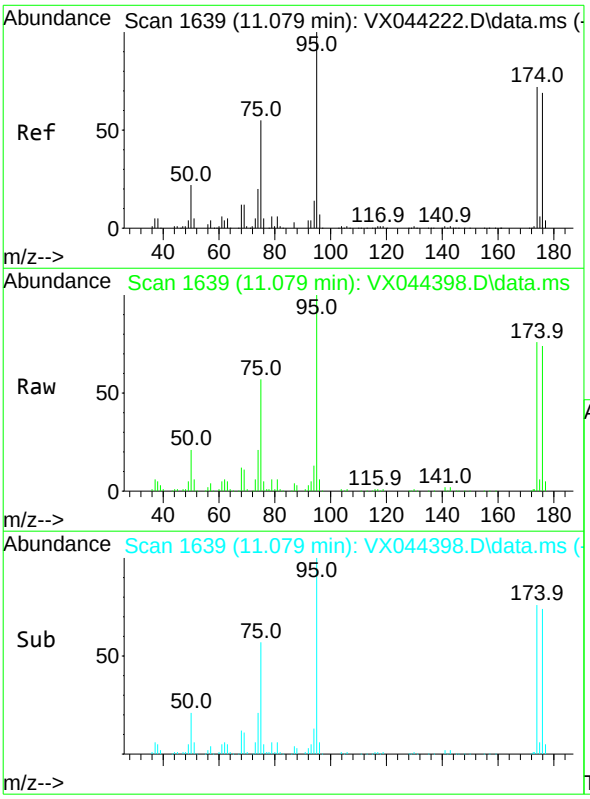
#50
Toluene-d8
Concen: 51.941 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044398.D
Acq: 18 Dec 2024 22:59

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBL02

Tgt Ion: 98 Resp: 250627

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.5	77.3

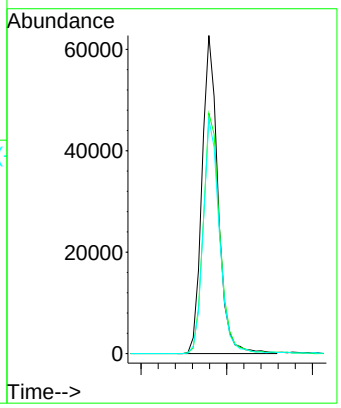


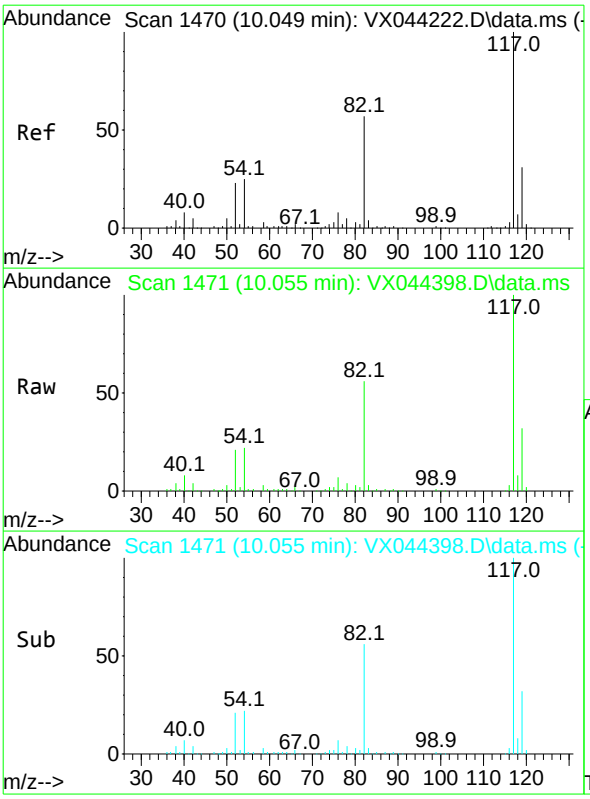


#62
4-Bromofluorobenzene
Concen: 48.243 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044398.D
Acq: 18 Dec 2024 22:59

Tgt Ion: 95 Resp: 81340

Ion	Ratio	Lower	Upper
95	100		
174	78.8	0.0	145.8
176	74.6	0.0	137.8



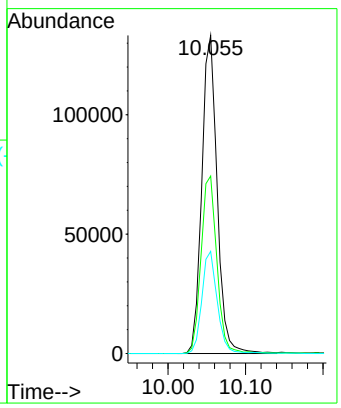


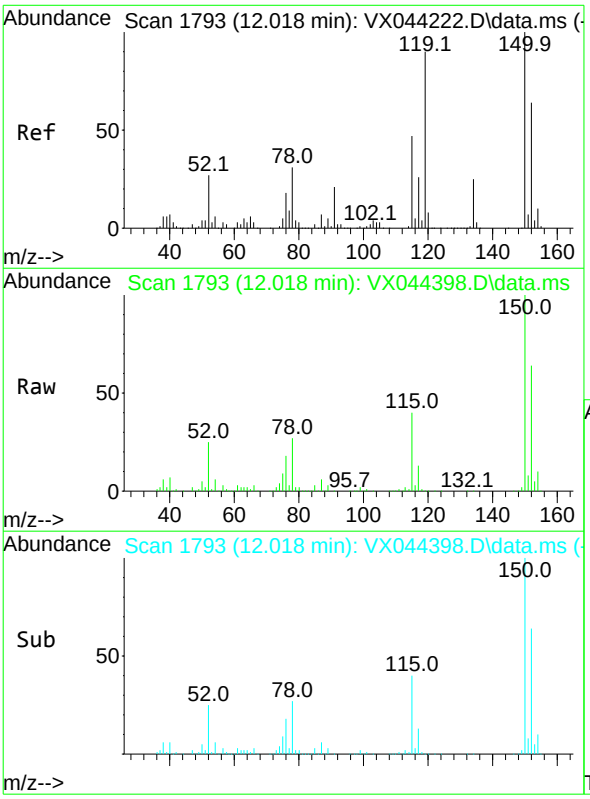
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044398.D
Acq: 18 Dec 2024 22:59

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBL02

Tgt Ion:117 Resp: 183436

Ion	Ratio	Lower	Upper
117	100		
82	55.8	45.8	68.8
119	32.1	25.0	37.4

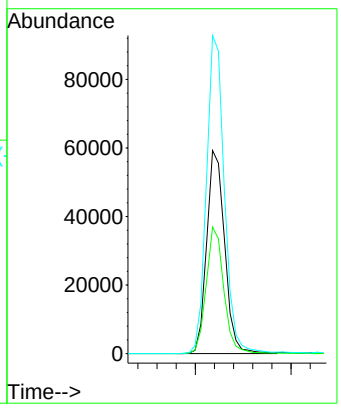




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044398.D
Acq: 18 Dec 2024 22:59

Tgt Ion:152 Resp: 77360

Ion	Ratio	Lower	Upper
152	100		
115	61.2	44.5	133.3
150	157.1	0.0	353.8



Raw Data: **VX044440.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1220WBL01	SDG No.:	P5317
Lab Sample ID:	VX1220WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044440.D	1		12/20/24 10:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1220WBL01	SDG No.:	P5317
Lab Sample ID:	VX1220WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044440.D	1		12/20/24 10:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.1		81 - 118		88%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	52.1		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	121000	5.55				
540-36-3	1,4-Difluorobenzene	218000	6.757				
3114-55-4	Chlorobenzene-d5	194000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	81000	12.018				

Raw Data: **VX044440.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1220WBL01	SDG No.:	P5317
Lab Sample ID:	VX1220WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044440.D	1		12/20/24 10:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044440.D
Acq On : 20 Dec 2024 10:23
Operator : JC/MD
Sample : VX1220WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Quant Time: Dec 20 22:20:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

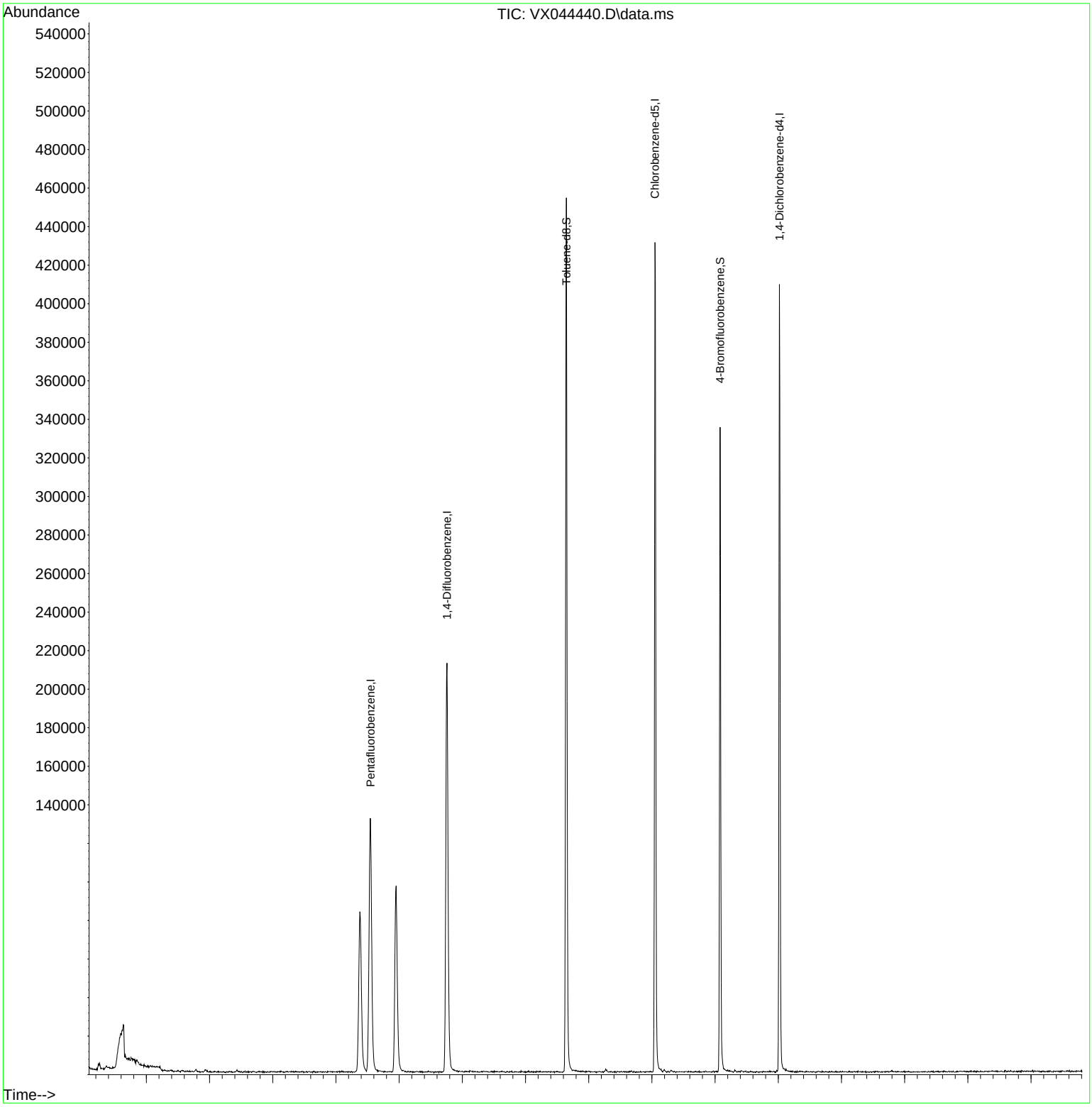
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	120864	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	218417	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	193836	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	81005	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	93379	44.065	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 88.120%			
35) Dibromofluoromethane	5.379	113	71852	47.498	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.000%			
50) Toluene-d8	8.647	98	265638	52.050	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.100%			
62) 4-Bromofluorobenzene	11.079	95	86300	48.393	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.780%			
Target Compounds						Qvalue

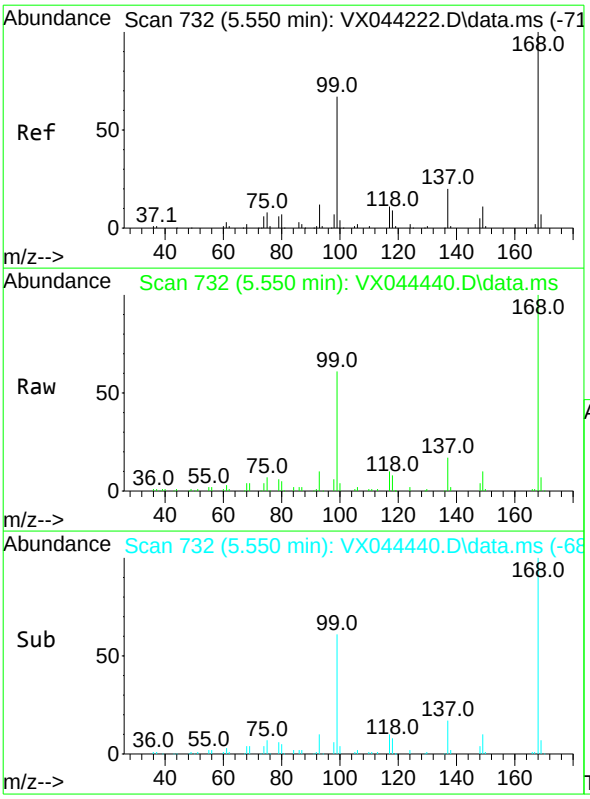
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044440.D
Acq On : 20 Dec 2024 10:23
Operator : JC/MD
Sample : VX1220WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Quant Time: Dec 20 22:20:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



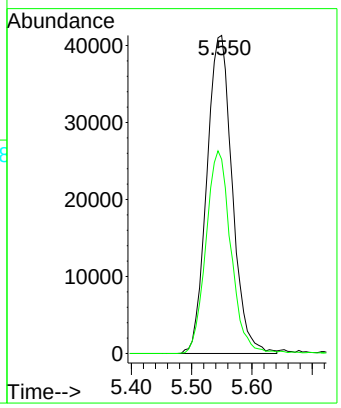


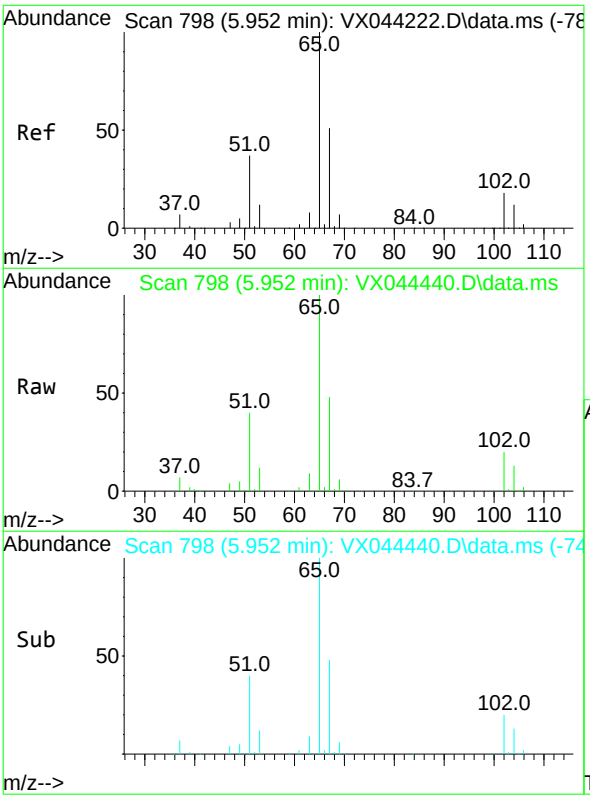
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Tgt Ion:168 Resp: 120864

Ion	Ratio	Lower	Upper
168	100		
99	61.0	53.4	80.0

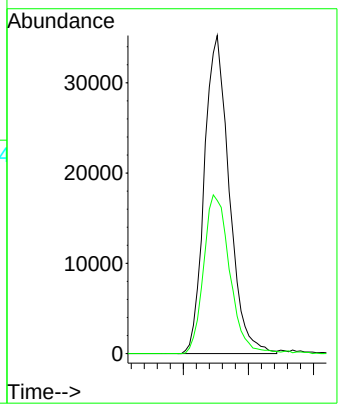


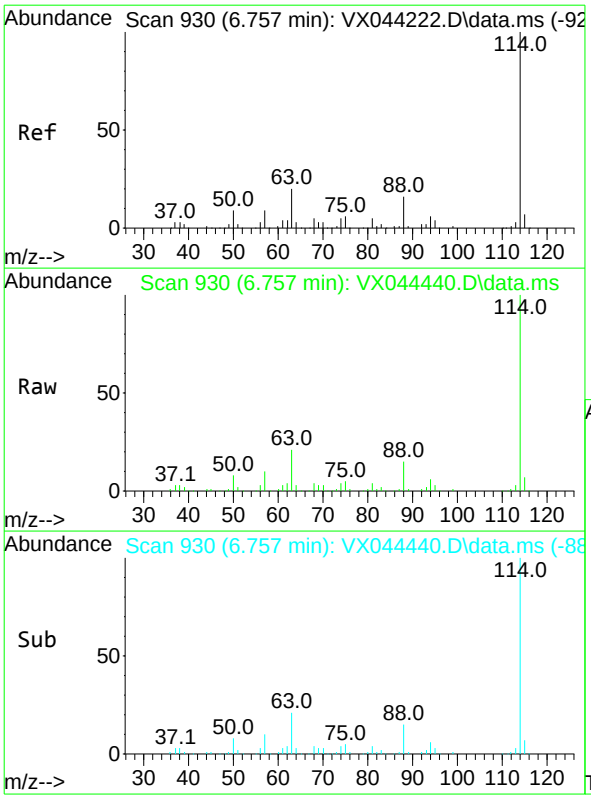


#33
1,2-Dichloroethane-d4
Concen: 44.065 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Tgt Ion: 65 Resp: 93379

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	101.6



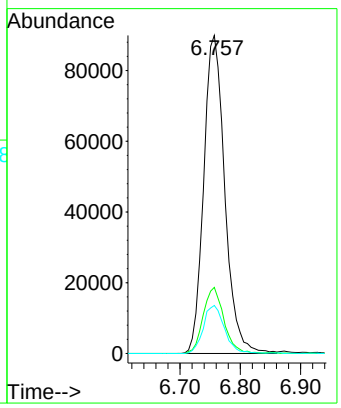


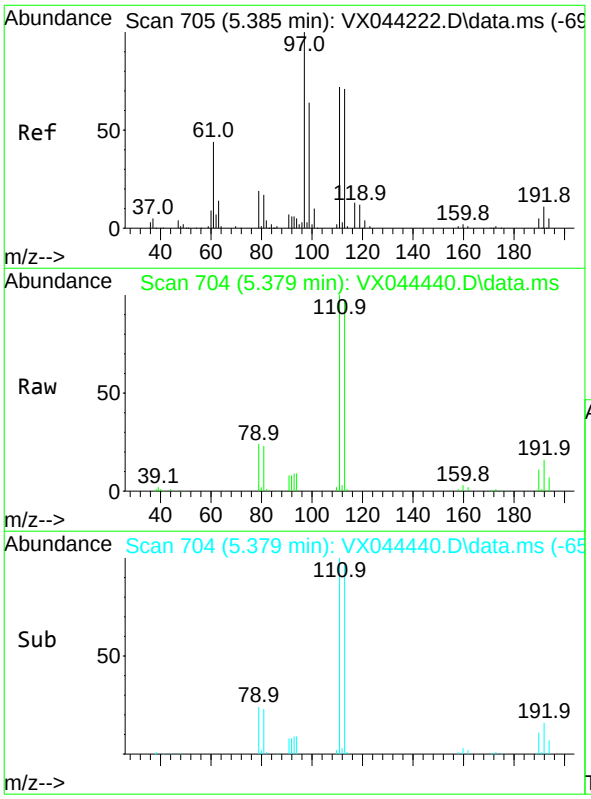
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Tgt Ion:114 Resp: 218417

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.6
88	15.1	0.0	31.8

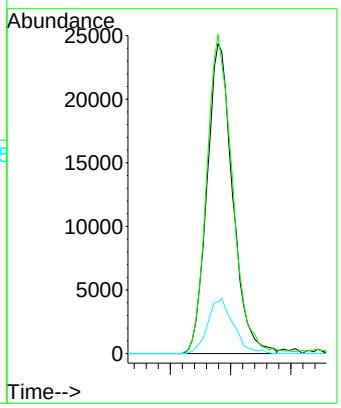


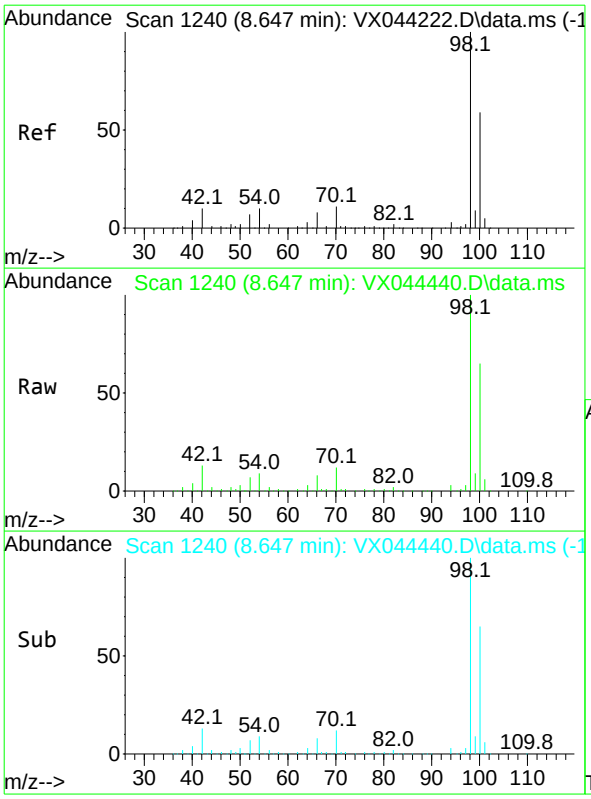


#35
Dibromofluoromethane
Concen: 47.498 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Tgt Ion:113 Resp: 71852

Ion	Ratio	Lower	Upper
113	100		
111	103.7	80.4	120.6
192	17.8	13.3	19.9



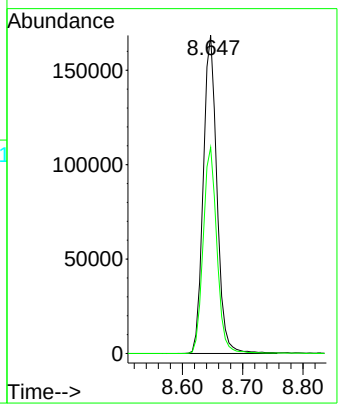


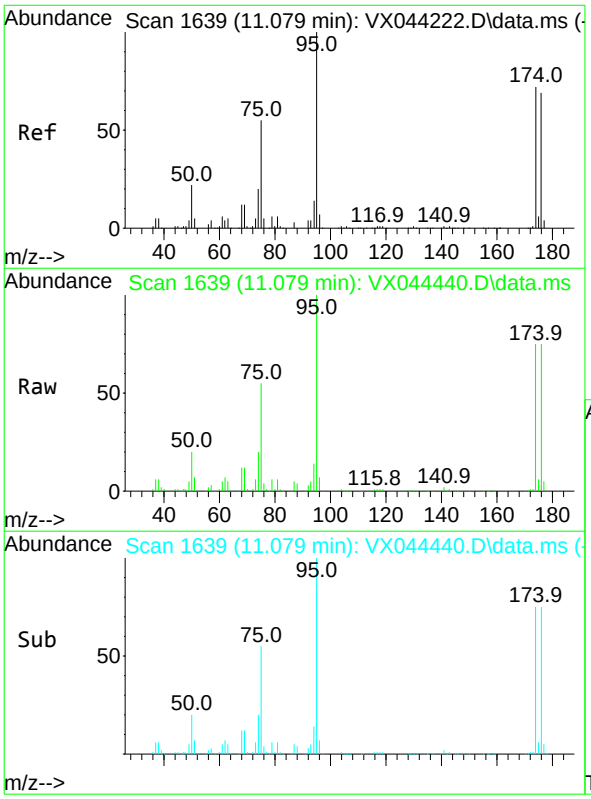
#50
Toluene-d8
Concen: 52.050 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Tgt Ion: 98 Resp: 265638

Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.5	77.3

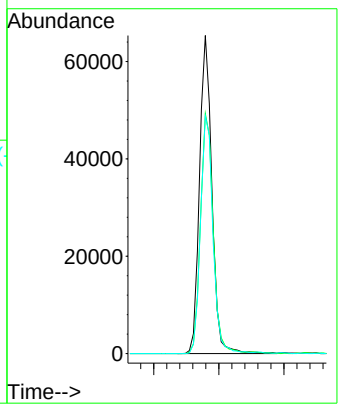


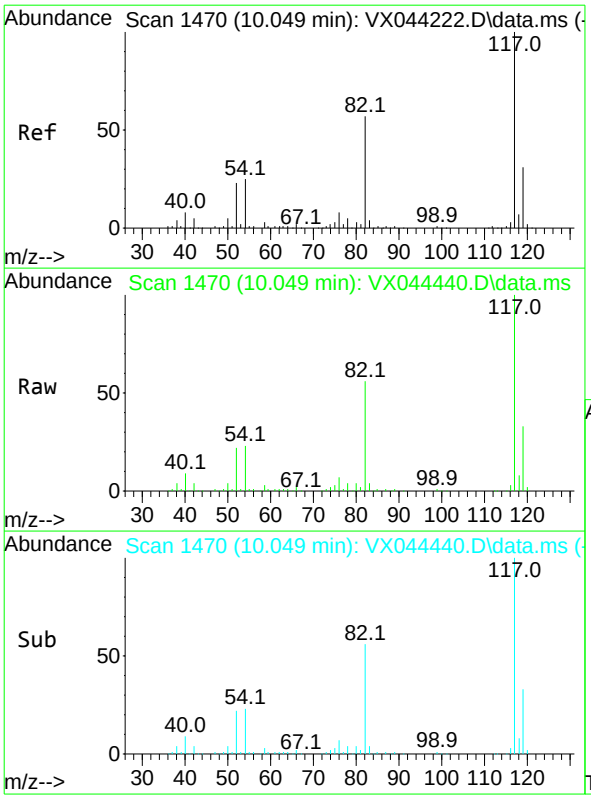


#62
4-Bromofluorobenzene
Concen: 48.393 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Tgt Ion: 95 Resp: 86300

Ion	Ratio	Lower	Upper
95	100		
174	77.9	0.0	145.8
176	75.4	0.0	137.8



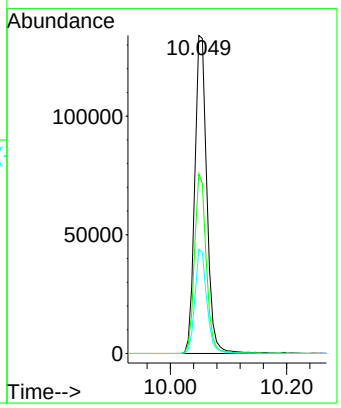


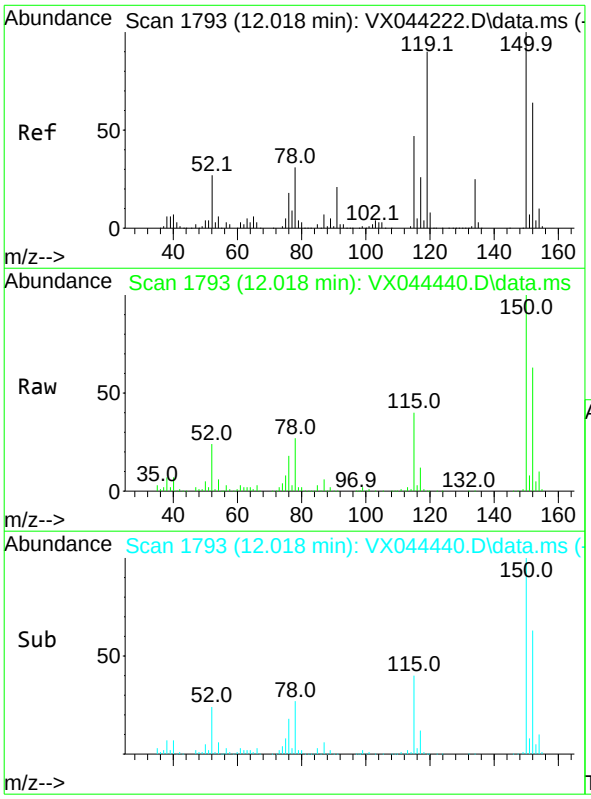
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Tgt Ion:117 Resp: 193836

Ion	Ratio	Lower	Upper
117	100		
82	56.4	45.8	68.8
119	32.7	25.0	37.4

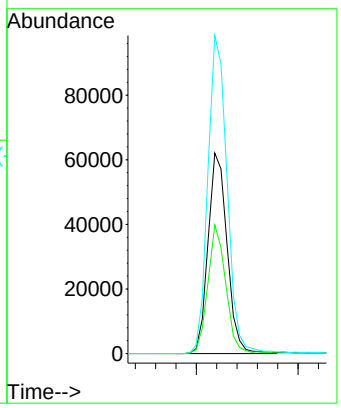




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Tgt Ion:152 Resp: 81005

Ion	Ratio	Lower	Upper
152	100		
115	60.9	44.5	133.3
150	161.2	0.0	353.8



Raw Data: **VX044468.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1223WBL01	SDG No.:	P5317
Lab Sample ID:	VX1223WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044468.D	1		12/23/24 09:46	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1223WBL01	SDG No.:	P5317
Lab Sample ID:	VX1223WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044468.D	1		12/23/24 09:46	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	41.8		81 - 118		84%	SPK: 50
1868-53-7	Dibromofluoromethane	46.7		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	51.2		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.8		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	154000	5.544				
540-36-3	1,4-Difluorobenzene	275000	6.757				
3114-55-4	Chlorobenzene-d5	236000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	97800	12.018				

Raw Data: **VX044468.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1223WBL01	SDG No.:	P5317
Lab Sample ID:	VX1223WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044468.D	1		12/23/24 09:46	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044468.D
Acq On : 23 Dec 2024 09:46
Operator : JC/MD
Sample : VX1223WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBL01

Quant Time: Dec 23 21:52:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	153955	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	275095	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	235868	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	97837	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	112940	41.840	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 83.680%			
35) Dibromofluoromethane	5.379	113	88948	46.685	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.360%			
50) Toluene-d8	8.647	98	329117	51.201	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.400%			
62) 4-Bromofluorobenzene	11.079	95	102939	45.831	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.660%			

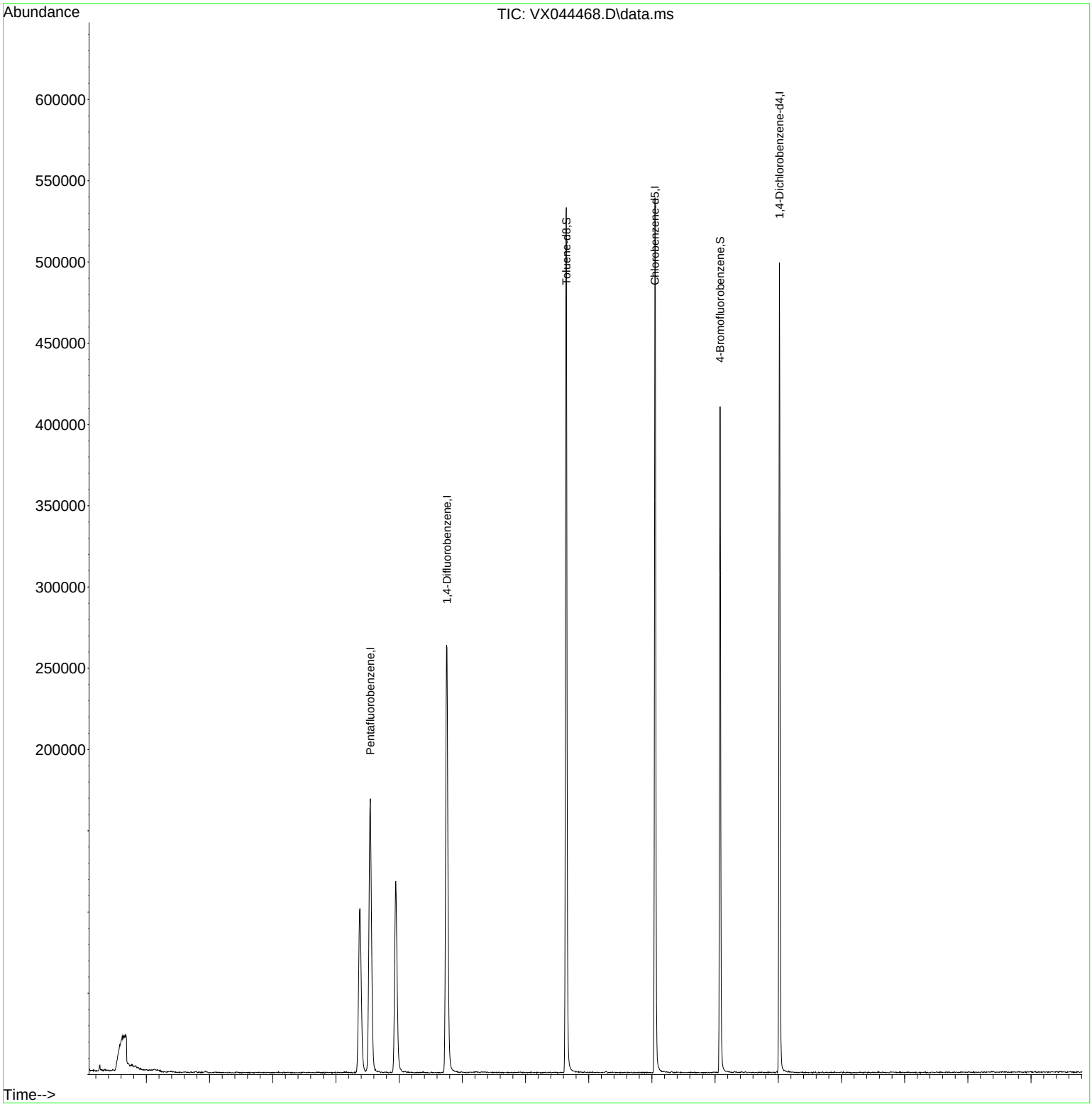
Target Compounds Qvalue

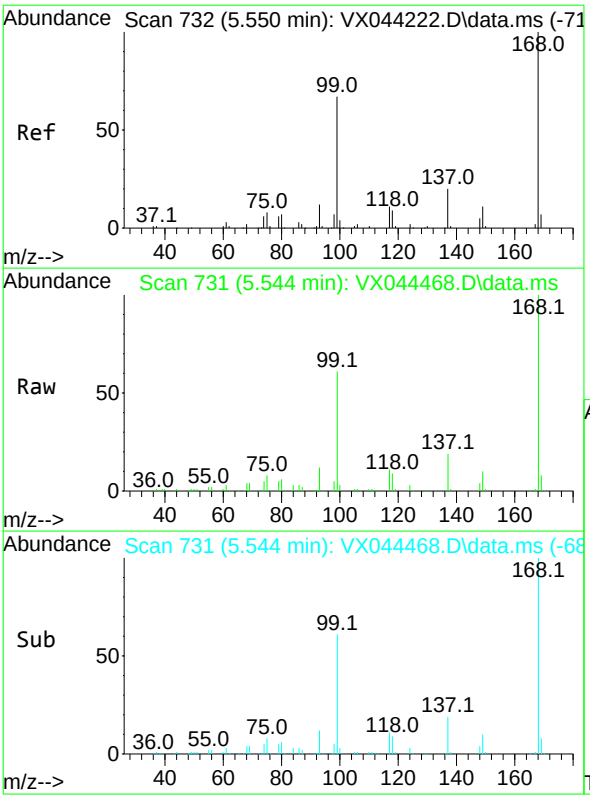
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044468.D
Acq On : 23 Dec 2024 09:46
Operator : JC/MD
Sample : VX1223WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBL01

Quant Time: Dec 23 21:52:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



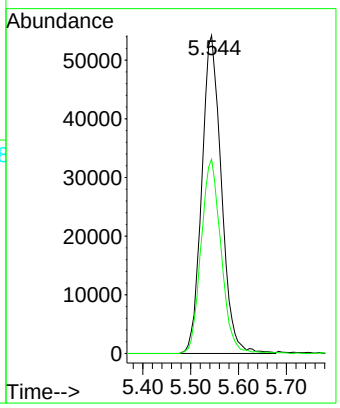


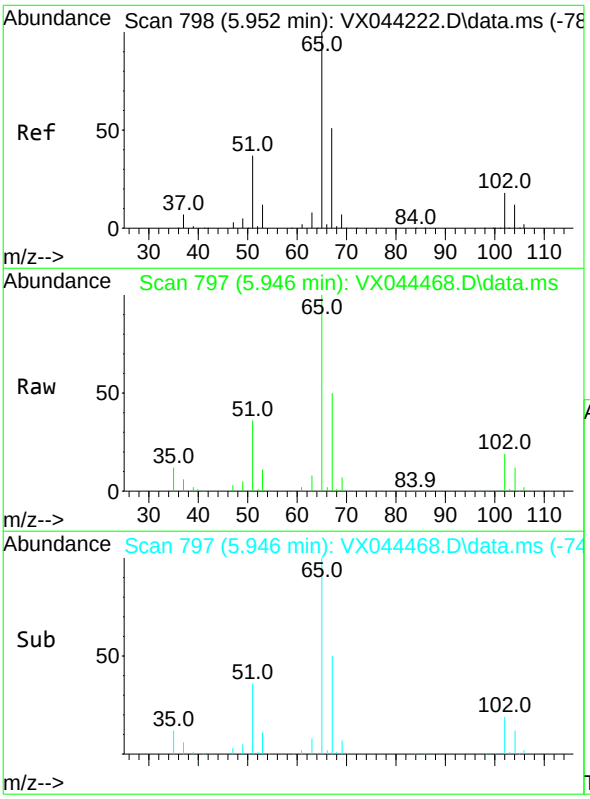
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044468.D
Acq: 23 Dec 2024 09:46

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBL01

Tgt Ion:168 Resp: 153955

Ion	Ratio	Lower	Upper
168	100		
99	61.1	53.4	80.0

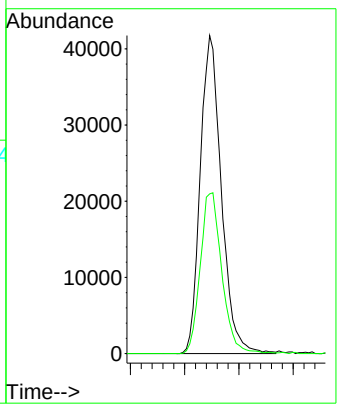


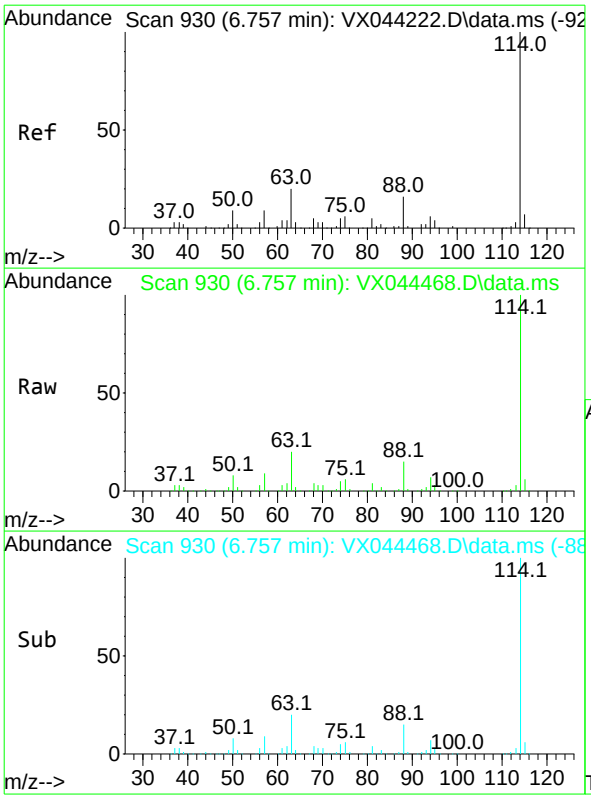


#33
1,2-Dichloroethane-d4
Concen: 41.840 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX044468.D
Acq: 23 Dec 2024 09:46

Tgt Ion: 65 Resp: 112940

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	101.6



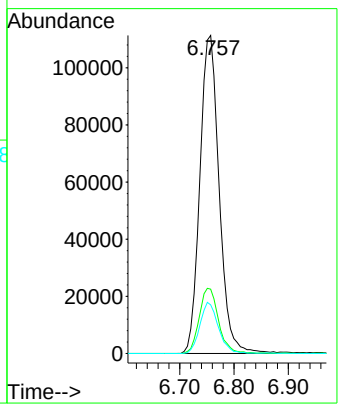


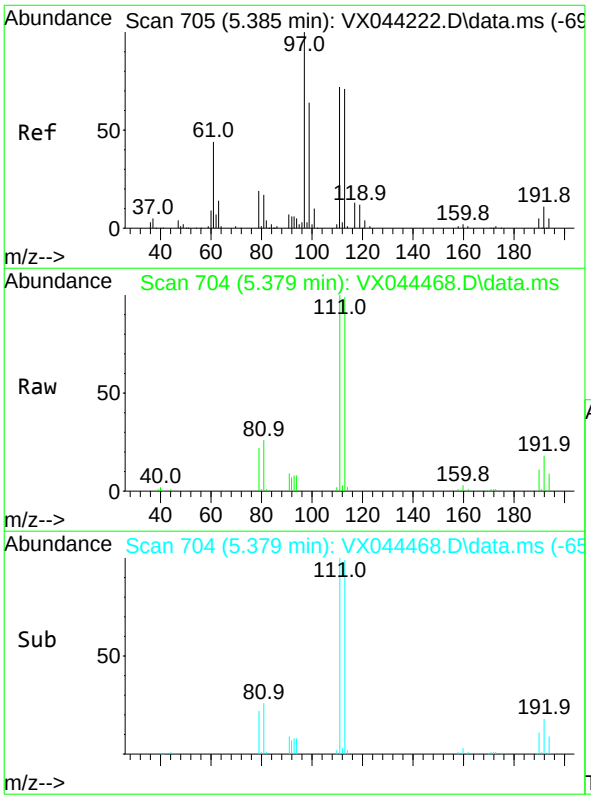
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044468.D
Acq: 23 Dec 2024 09:46

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBL01

Tgt Ion:114 Resp: 275095

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.6
88	15.3	0.0	31.8

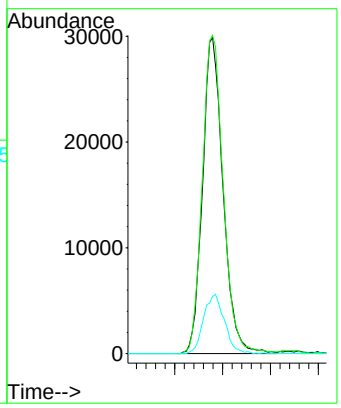


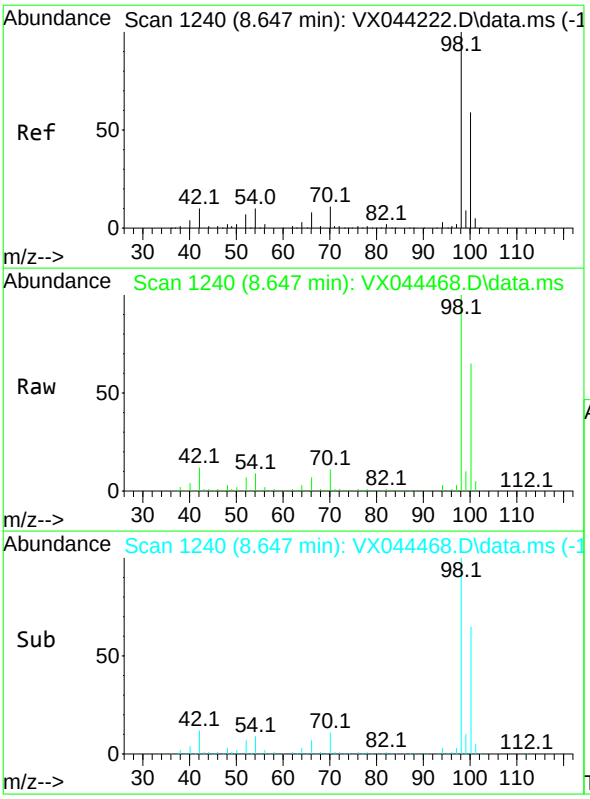


#35
Dibromofluoromethane
Concen: 46.685 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX044468.D
Acq: 23 Dec 2024 09:46

Tgt Ion:113 Resp: 88948

Ion	Ratio	Lower	Upper
113	100		
111	102.9	80.4	120.6
192	19.0	13.3	19.9



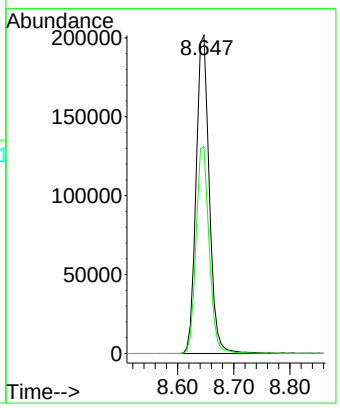


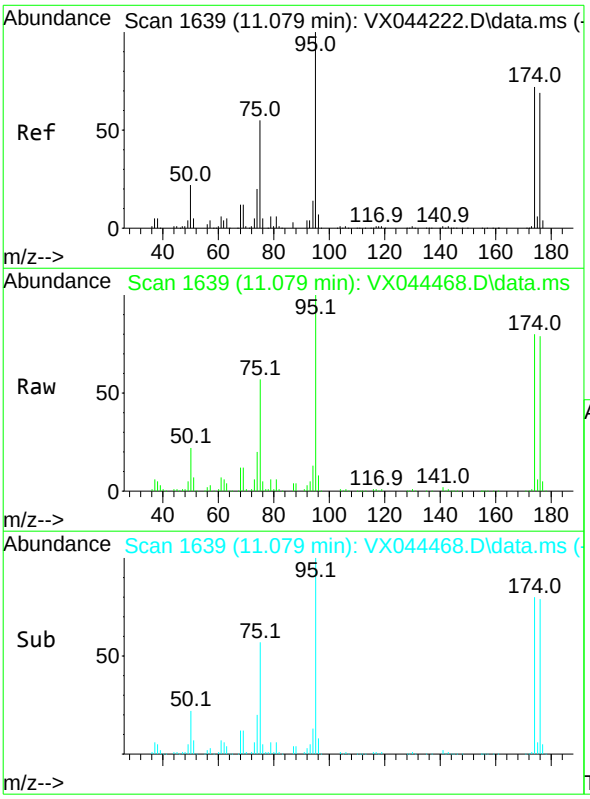
#50
Toluene-d8
Concen: 51.201 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044468.D
Acq: 23 Dec 2024 09:46

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBL01

Tgt Ion: 98 Resp: 329117

Ion	Ratio	Lower	Upper
98	100		
100	64.9	51.5	77.3

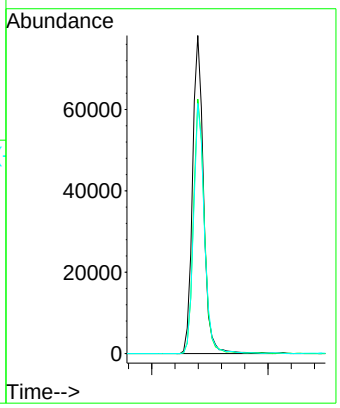


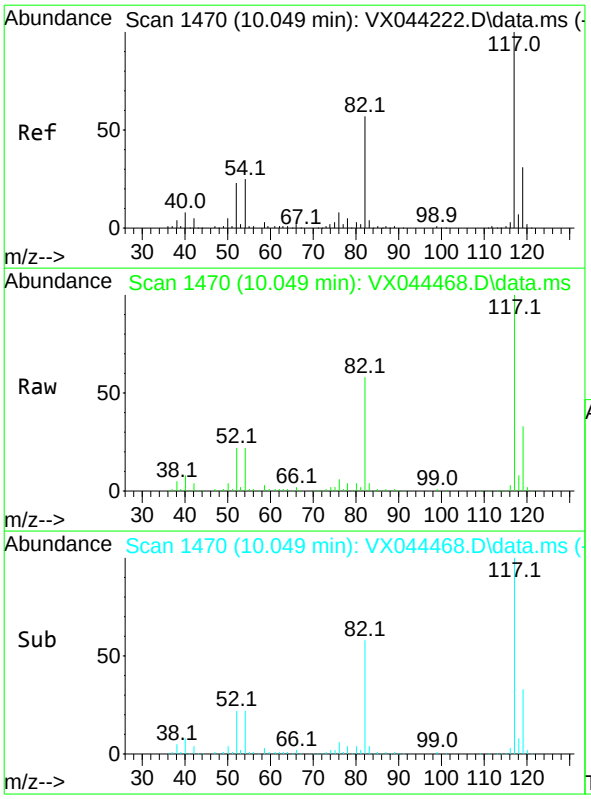


#62
4-Bromofluorobenzene
Concen: 45.831 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044468.D
Acq: 23 Dec 2024 09:46

Tgt Ion: 95 Resp: 102939

Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	145.8
176	77.2	0.0	137.8



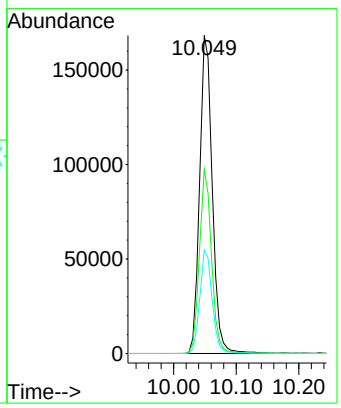


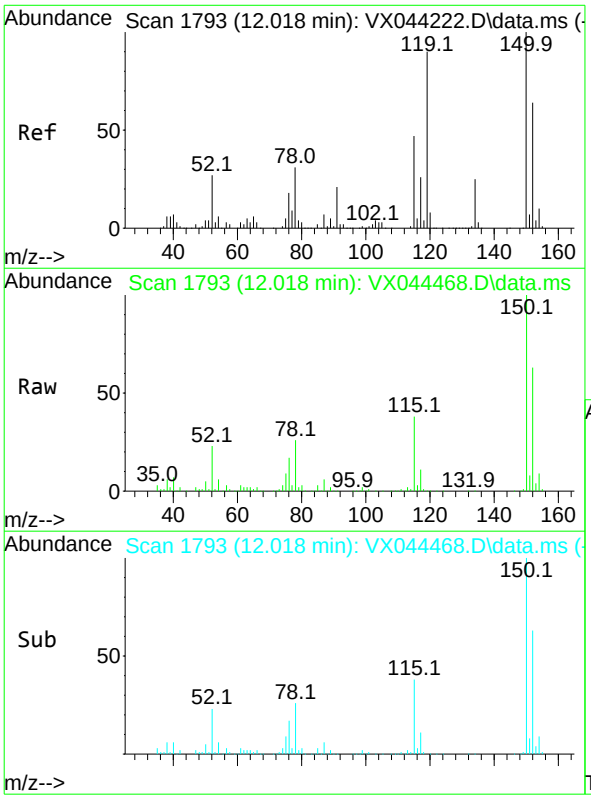
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044468.D
Acq: 23 Dec 2024 09:46

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBL01

Tgt Ion:117 Resp: 235868

Ion	Ratio	Lower	Upper
117	100		
82	57.9	45.8	68.8
119	32.5	25.0	37.4

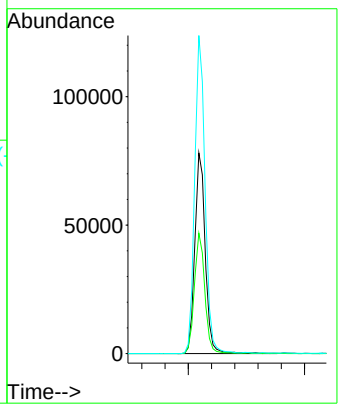




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044468.D
Acq: 23 Dec 2024 09:46

Tgt Ion:152 Resp: 97837

Ion	Ratio	Lower	Upper
152	100		
115	60.0	44.5	133.3
150	156.6	0.0	353.8



Raw Data: **VX044399.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1218WBS02	SDG No.:	P5317
Lab Sample ID:	VX1218WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044399.D	1		12/18/24 23:22	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	19.0		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	21.4		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	20.6		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	20.5		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	24.3		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	15.9		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.9		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.1		0.26	0.75	1.00	ug/L
67-64-1	Acetone	94.1		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	18.8		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.4		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	21.3		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	21.2		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.8		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.4		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	17.8		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	100		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.4		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.4		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	20.8		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	20.3		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.5		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	17.7		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.8		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.6		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.7		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.7		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	2.50	5.00	ug/L
108-88-3	Toluene	20.0		0.18	0.50	1.00	ug/L

Raw Data: **VX044399.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1218WBS02	SDG No.:	P5317
Lab Sample ID:	VX1218WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044399.D	1		12/18/24 23:22	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.1		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.3		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.6		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	19.4		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.7		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	18.9		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.1		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	18.8		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	38.0		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.1		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.7		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	20.0		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.9		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	22.0		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.8		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.6		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.1		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.7		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.8		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.5		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	50.9		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	129000	5.55				
540-36-3	1,4-Difluorobenzene	233000	6.757				
3114-55-4	Chlorobenzene-d5	200000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	86800	12.024				

Raw Data: **VX044399.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1218WBS02	SDG No.:	P5317
Lab Sample ID:	VX1218WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044399.D	1		12/18/24 23:22	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044399.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044399.D
Acq On : 18 Dec 2024 23:22
Operator : JC/MD
Sample : VX1218WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 19 00:56:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	128991	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	233001	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	200137	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	86763	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	114115	50.457	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.920%			
35) Dibromofluoromethane	5.385	113	85034	52.694	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.380%			
50) Toluene-d8	8.647	98	277165	50.909	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.820%			
62) 4-Bromofluorobenzene	11.079	95	92307	48.522	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.040%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	37942	19.023	ug/l	93
3) Chloromethane	1.300	50	40751	21.366	ug/l	100
4) Vinyl Chloride	1.374	62	40892	20.579	ug/l	97
5) Bromomethane	1.593	94	28914	20.511	ug/l	95
6) Chloroethane	1.666	64	30101	24.328	ug/l	97
7) Trichlorofluoromethane	1.874	101	61744	15.872	ug/l	98
8) Diethyl Ether	2.136	74	26105	19.660	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	28167	17.894	ug/l	97
10) Methyl Iodide	2.447	142	43853	21.138	ug/l	98
11) Tert butyl alcohol	2.989	59	33835	106.151	ug/l	97
12) 1,1-Dichloroethene	2.306	96	29065	20.103	ug/l	97
13) Acrolein	2.239	56	48772	105.705	ug/l	98
14) Allyl chloride	2.654	41	48506	20.142	ug/l	97
15) Acrylonitrile	3.068	53	96056	108.791	ug/l	99
16) Acetone	2.386	43	86799	94.139	ug/l	96
17) Carbon Disulfide	2.501	76	51728	18.822	ug/l	98
18) Methyl Acetate	2.709	43	50558	21.267	ug/l	93
19) Methyl tert-butyl Ether	3.117	73	114860	20.358	ug/l	97
20) Methylene Chloride	2.782	84	36674	21.177	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	30353	19.753	ug/l	90
22) Diisopropyl ether	3.763	45	112563	20.757	ug/l	89
23) Vinyl Acetate	3.721	43	475270	107.800	ug/l	98
24) 1,1-Dichloroethane	3.605	63	64774	21.428	ug/l	100
25) 2-Butanone	4.568	43	134799	102.837	ug/l	95
26) 2,2-Dichloropropane	4.465	77	38575	15.708	ug/l	96
27) cis-1,2-Dichloroethene	4.489	96	39781	20.385	ug/l	93
28) Bromochloromethane	4.897	49	30856	20.816	ug/l	100
29) Tetrahydrofuran	5.007	42	87910	104.485	ug/l	98
30) Chloroform	5.092	83	68906	20.289	ug/l	94
31) Cyclohexane	5.464	56	43349	17.759	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	55108	19.547	ug/l	99
36) 1,1-Dichloropropene	5.690	75	38087	18.259	ug/l	99
37) Ethyl Acetate	4.721	43	51828	20.100	ug/l	97
38) Carbon Tetrachloride	5.672	117	41400	18.435	ug/l	93
39) Methylcyclohexane	7.379	83	44052	17.665	ug/l	97
40) Benzene	6.037	78	131536	20.769	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044399.D
Acq On : 18 Dec 2024 23:22
Operator : JC/MD
Sample : VX1218WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 19 00:56:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	29615	21.629	ug/l		99
42) 1,2-Dichloroethane	6.080	62	53845	20.639	ug/l		97
43) Isopropyl Acetate	6.348	43	84024	20.849	ug/l		97
44) Trichloroethene	7.123	130	31494	19.941	ug/l		99
45) 1,2-Dichloropropane	7.427	63	33512	20.711	ug/l		96
46) Dibromomethane	7.580	93	26590	21.182	ug/l		95
47) Bromodichloromethane	7.824	83	44915	20.717	ug/l		98
48) Methyl methacrylate	7.696	41	39226	20.050	ug/l		96
49) 1,4-Dioxane	7.665	88	10895	335.893	ug/l	#	68
51) 4-Methyl-2-Pentanone	8.574	43	276459	106.686	ug/l		100
52) Toluene	8.720	92	79570	20.006	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	41702	19.130	ug/l		93
54) cis-1,3-Dichloropropene	8.366	75	45604	19.319	ug/l	#	88
55) 1,1,2-Trichloroethane	9.153	97	34197	21.643	ug/l		98
56) Ethyl methacrylate	9.116	69	50855	20.388	ug/l		98
57) 1,3-Dichloropropane	9.305	76	57729	20.991	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	124927	99.300	ug/l		100
59) 2-Hexanone	9.433	43	197809	105.460	ug/l		99
60) Dibromochloromethane	9.518	129	30374	19.439	ug/l		99
61) 1,2-Dibromoethane	9.610	107	34910	21.706	ug/l		97
64) Tetrachloroethene	9.269	164	25159	18.940	ug/l		99
65) Chlorobenzene	10.079	112	81973	19.115	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	28201	20.461	ug/l		99
67) Ethyl Benzene	10.195	91	139144	18.778	ug/l		98
68) m/p-Xylenes	10.299	106	103433	38.041	ug/l		97
69) o-Xylene	10.640	106	52635	19.133	ug/l		97
70) Styrene	10.652	104	87058	19.740	ug/l		95
71) Bromoform	10.799	173	17299	19.959	ug/l	#	100
73) Isopropylbenzene	10.963	105	132502	19.949	ug/l		100
74) N-amyl acetate	10.841	43	64183	20.909	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	50710	21.981	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	41540m	21.443	ug/l		
77) Bromobenzene	11.195	156	32621	20.253	ug/l		99
78) n-propylbenzene	11.305	91	144182	19.640	ug/l		100
79) 2-Chlorotoluene	11.360	91	93621	19.719	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	107680	19.549	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	10659	19.586	ug/l		90
82) 4-Chlorotoluene	11.451	91	102797	19.553	ug/l		100
83) tert-Butylbenzene	11.713	119	105765	19.429	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	108536	20.064	ug/l		100
85) sec-Butylbenzene	11.890	105	126820	19.191	ug/l		99
86) p-Isopropyltoluene	12.006	119	107246	19.498	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	55710	19.801	ug/l		97
88) 1,4-Dichlorobenzene	12.042	146	56626	19.579	ug/l		98
89) n-Butylbenzene	12.329	91	85786	18.548	ug/l		99
90) Hexachloroethane	12.536	117	14339	17.859	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	58637	20.072	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.945	75	8448	18.864	ug/l		91
93) 1,2,4-Trichlorobenzene	13.585	180	29891	18.663	ug/l		96
94) Hexachlorobutadiene	13.725	225	12669	19.666	ug/l		97
95) Naphthalene	13.774	128	122767	19.638	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	33666	19.819	ug/l		99

Sample Results: **VX044399.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044399.D
Acq On : 18 Dec 2024 23:22
Operator : JC/MD
Sample : VX1218WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 19 00:56:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

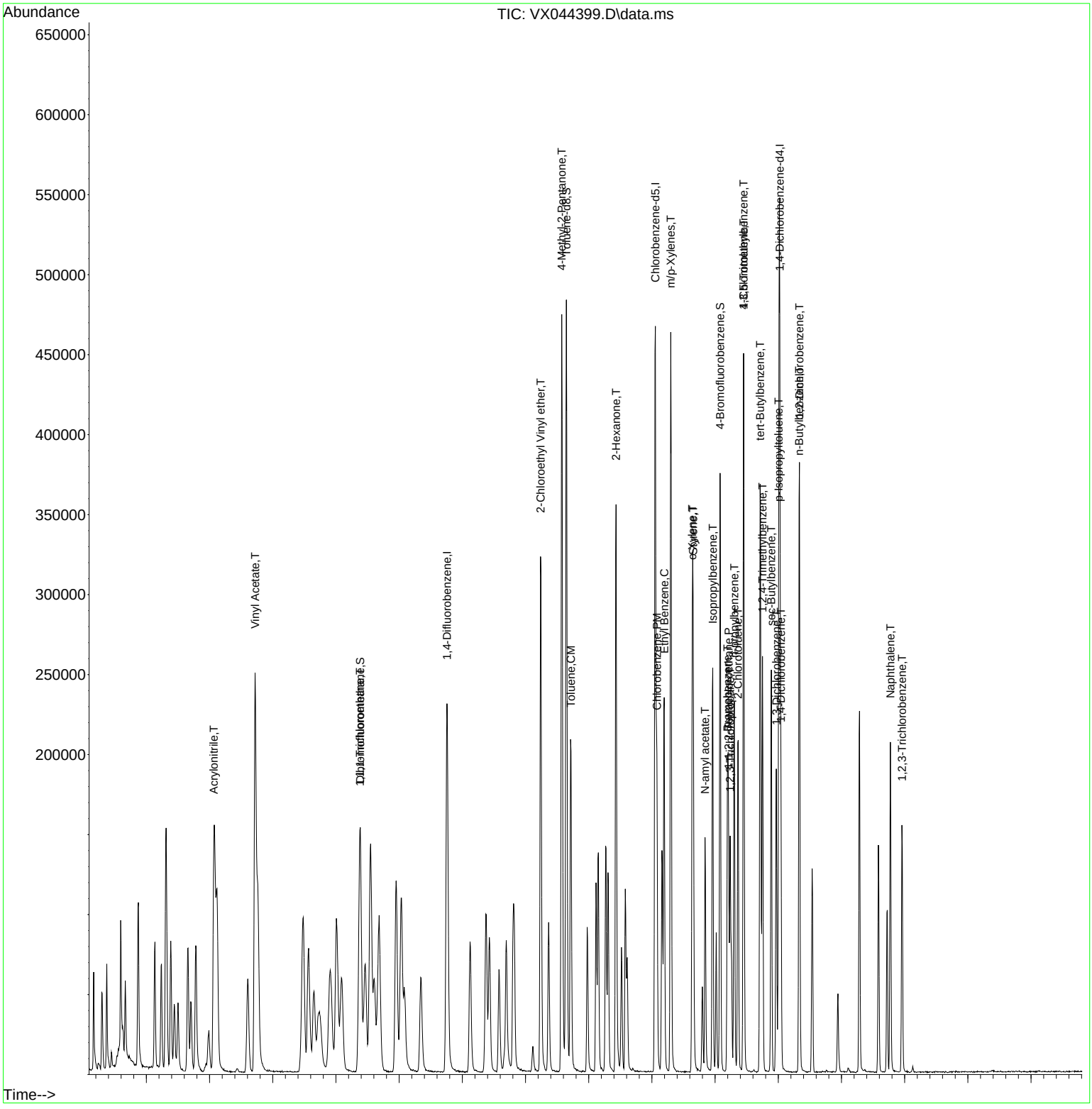
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044399.D
Acq On : 18 Dec 2024 23:22
Operator : JC/MD
Sample : VX1218WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 31 Sample Multiplier: 1

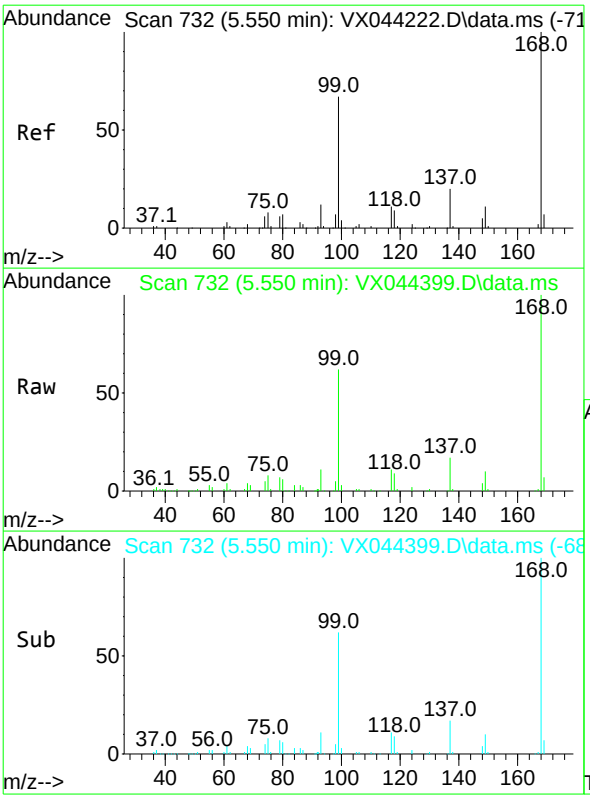
Quant Time: Dec 19 00:56:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

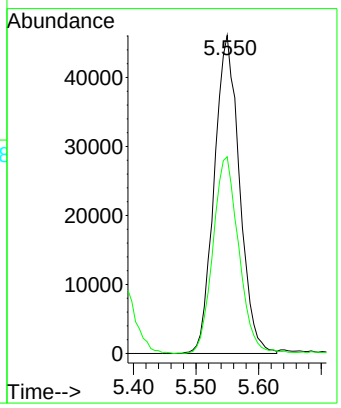




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:168 Resp: 128991

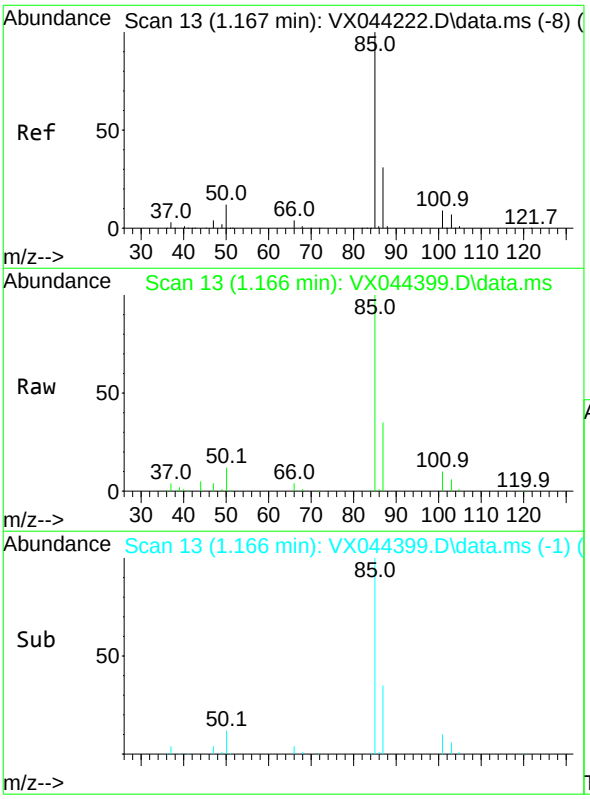
Ion	Ratio	Lower	Upper
168	100		
99	61.7	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

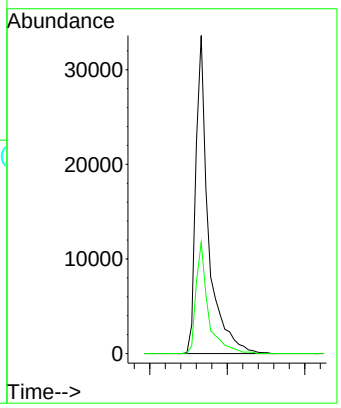
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

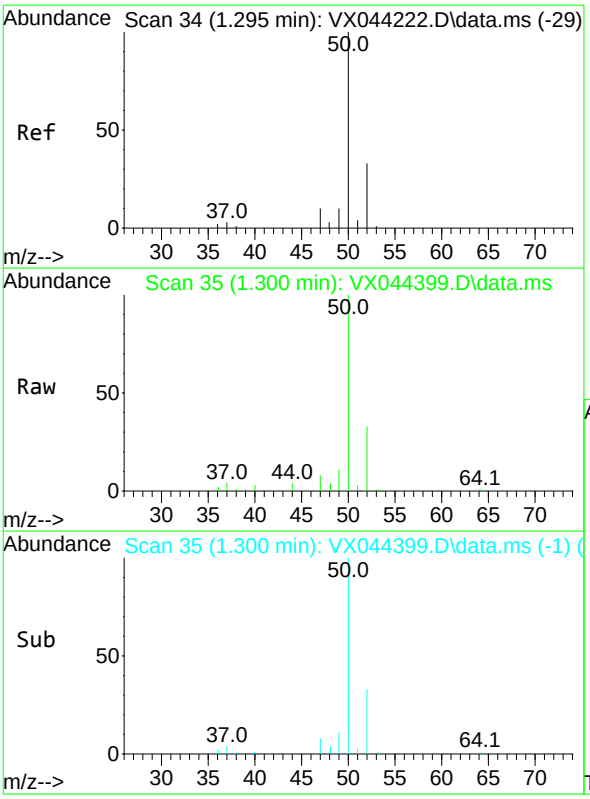


#2
Dichlorodifluoromethane
Concen: 19.023 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 85 Resp: 37942

Ion	Ratio	Lower	Upper
85	100		
87	35.0	15.4	46.4

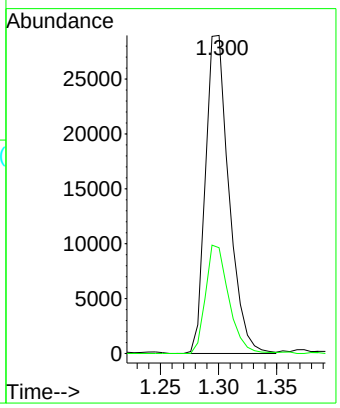




#3
Chloromethane
Concen: 21.366 ug/l
RT: 1.300 min Scan# 35
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 50 Resp: 40751

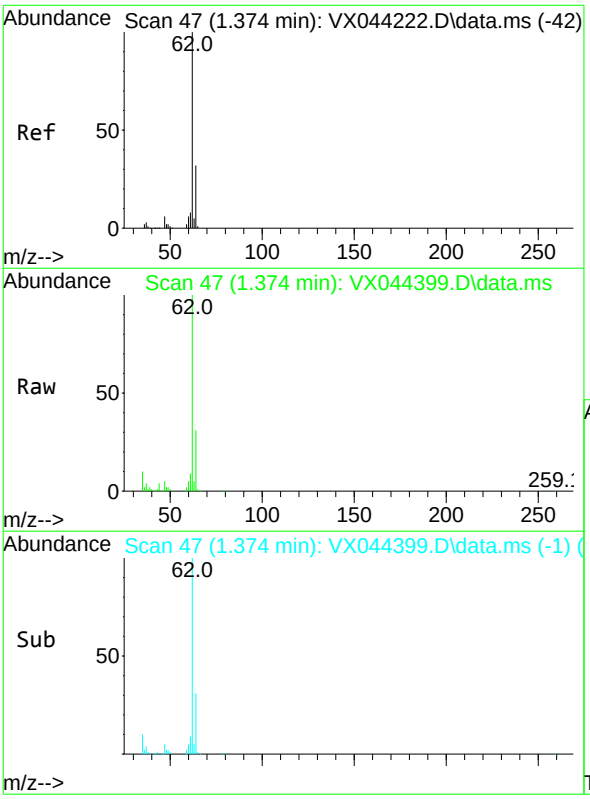
Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

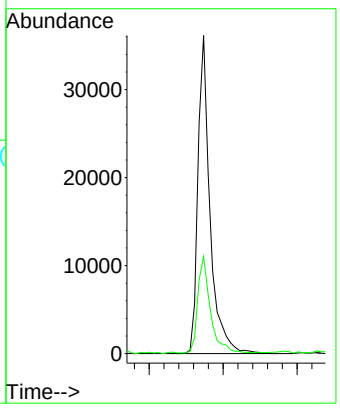
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

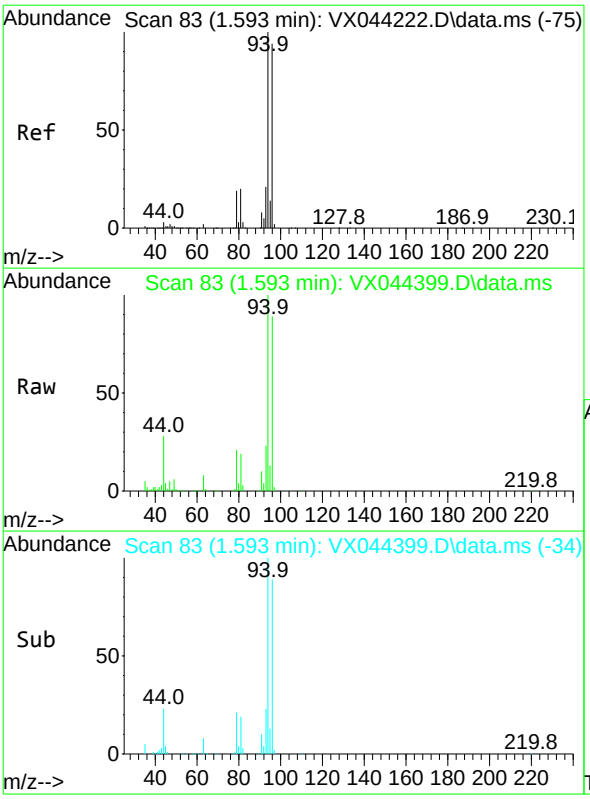


#4
Vinyl Chloride
Concen: 20.579 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 62 Resp: 40892

Ion	Ratio	Lower	Upper
62	100		
64	30.3	25.7	38.5

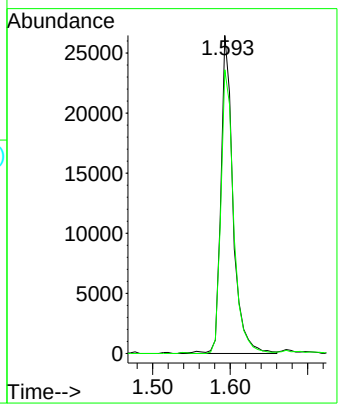




#5
Bromomethane
Concen: 20.511 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 94 Resp: 28914

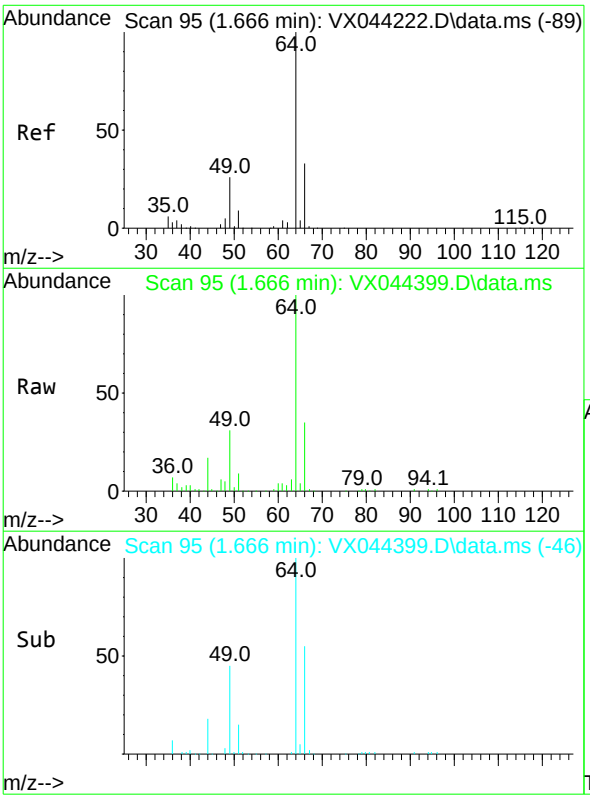
Ion	Ratio	Lower	Upper
94	100		
96	89.2	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

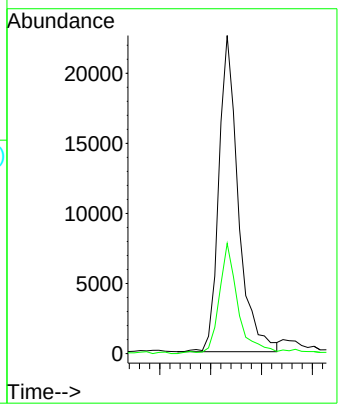
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

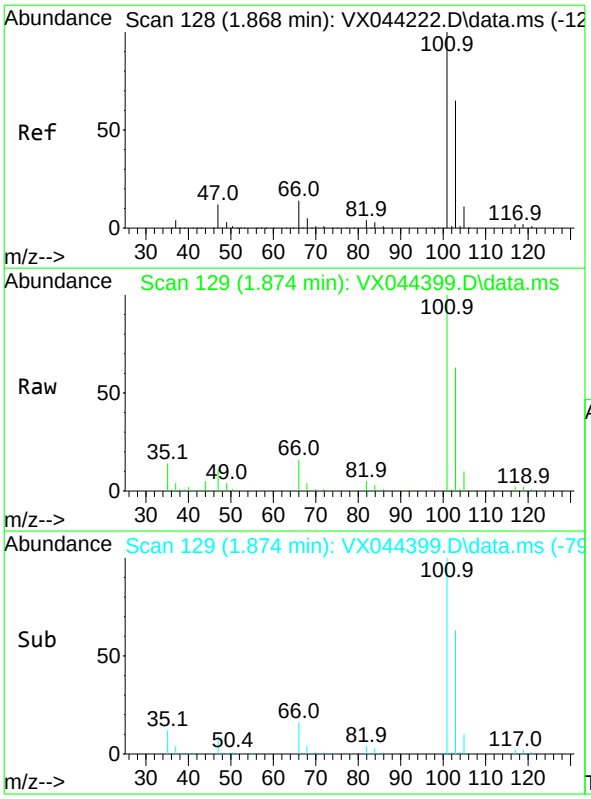


#6
Chloroethane
Concen: 24.328 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 64 Resp: 30101

Ion	Ratio	Lower	Upper
64	100		
66	34.8	26.6	39.8

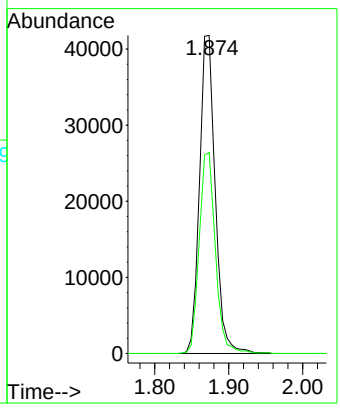




#7
Trichlorofluoromethane
Concen: 15.872 ug/l
RT: 1.874 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:101 Resp: 61744

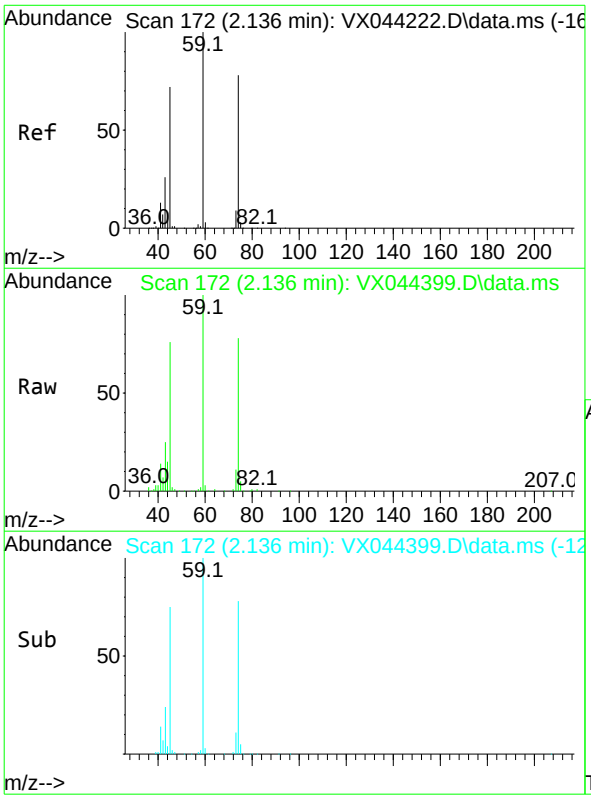
Ion	Ratio	Lower	Upper
101	100		
103	63.2	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

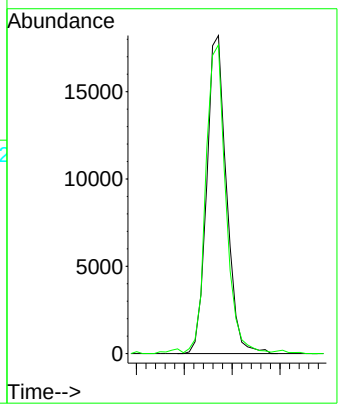
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

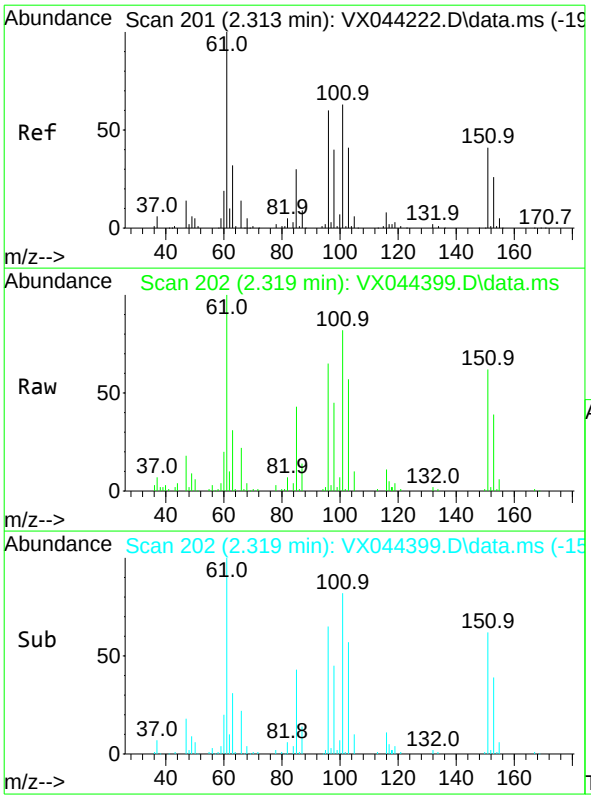


#8
Diethyl Ether
Concen: 19.660 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 74 Resp: 26105

Ion	Ratio	Lower	Upper
74	100		
45	99.4	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.894 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

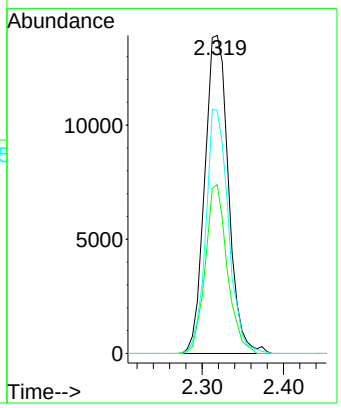
Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

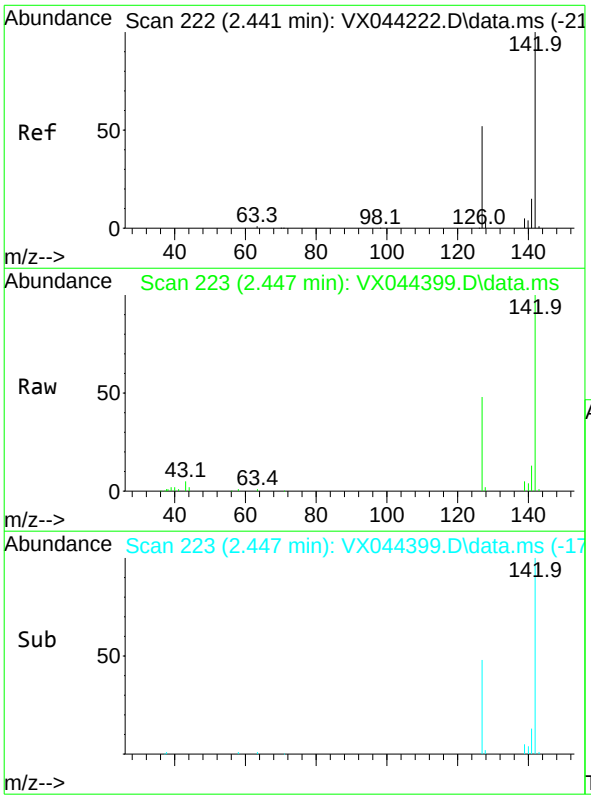
Tgt Ion:101 Resp: 28167

Ion	Ratio	Lower	Upper
101	100		
85	49.3	38.5	57.7
151	73.1	55.8	83.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

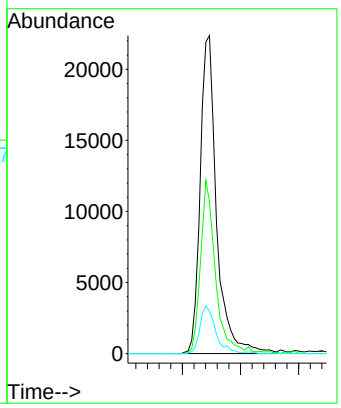


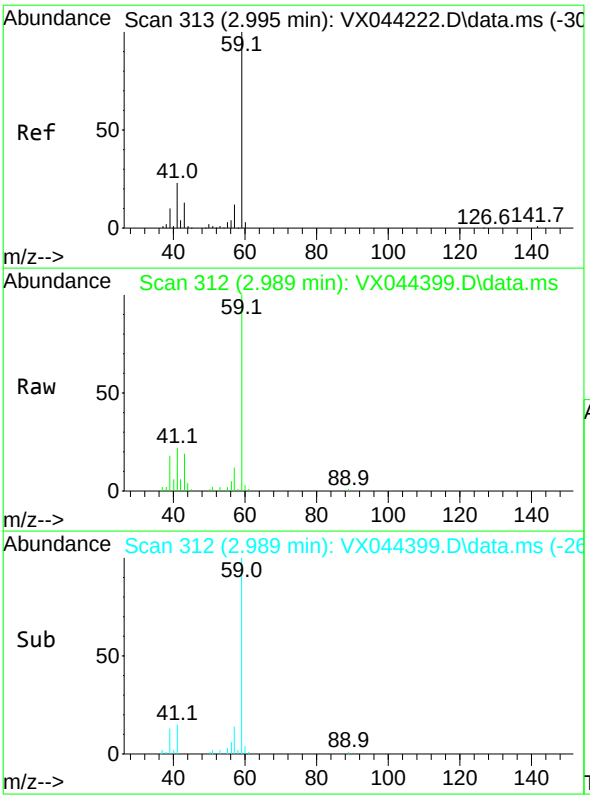


#10
Methyl Iodide
Concen: 21.138 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:142 Resp: 43853

Ion	Ratio	Lower	Upper
142	100		
127	50.1	41.8	62.8
141	14.4	11.5	17.3

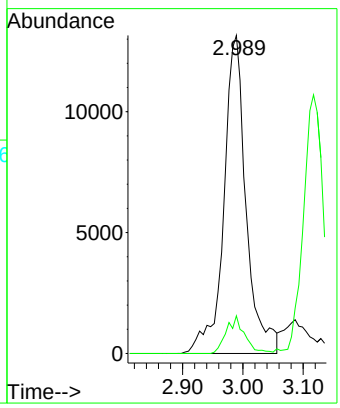




#11
Tert butyl alcohol
Concen: 106.151 ug/l
RT: 2.989 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 59 Resp: 33835

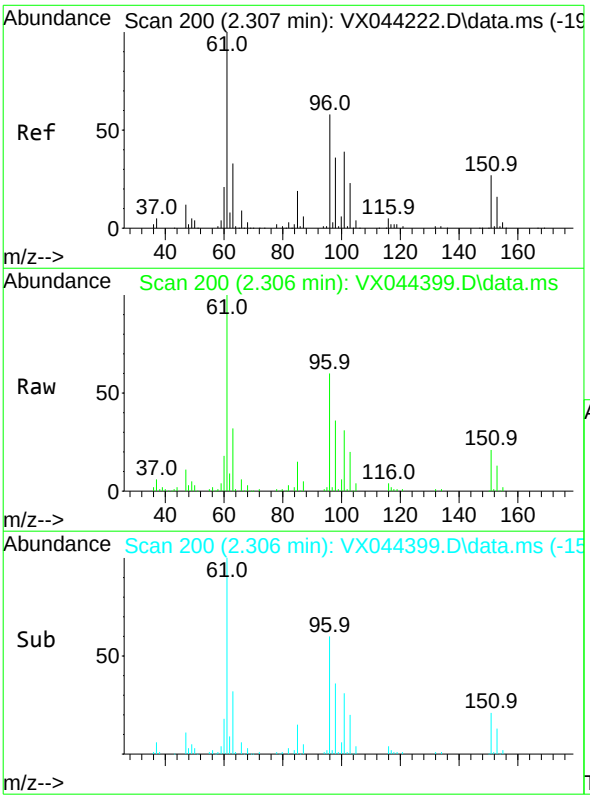
Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

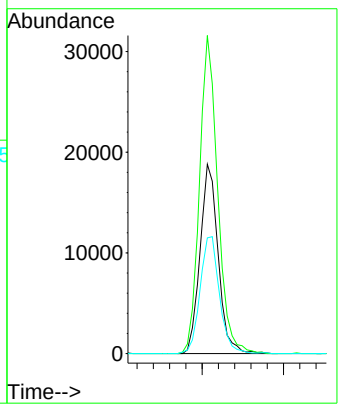
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

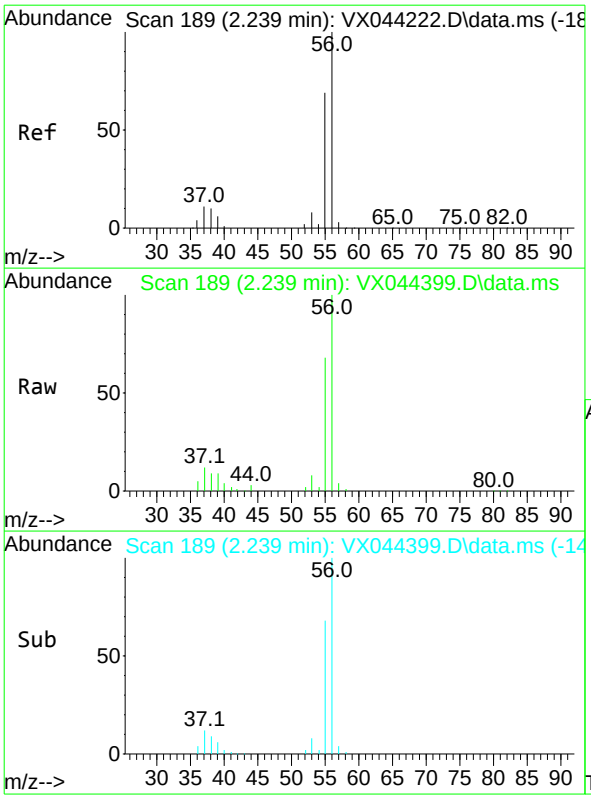


#12
1,1-Dichloroethene
Concen: 20.103 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 96 Resp: 29065

Ion	Ratio	Lower	Upper
96	100		
61	168.0	138.0	207.0
98	61.1	50.0	75.0

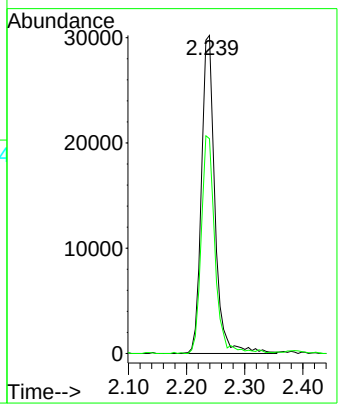




#13
Acrolein
Concen: 105.705 ug/l
RT: 2.239 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 56 Resp: 48772

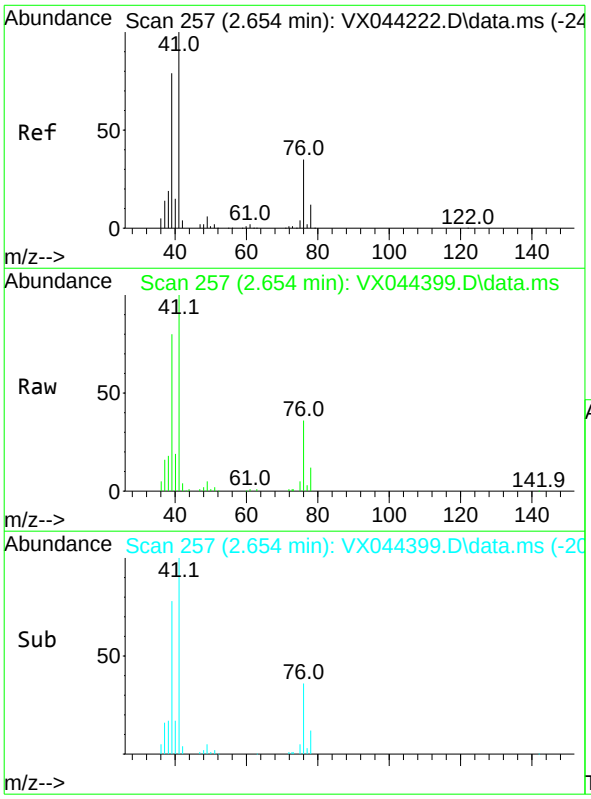
Ion	Ratio	Lower	Upper
56	100		
55	69.1	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

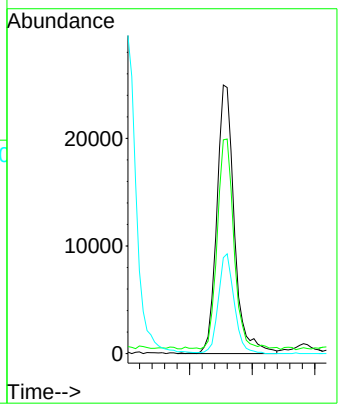
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

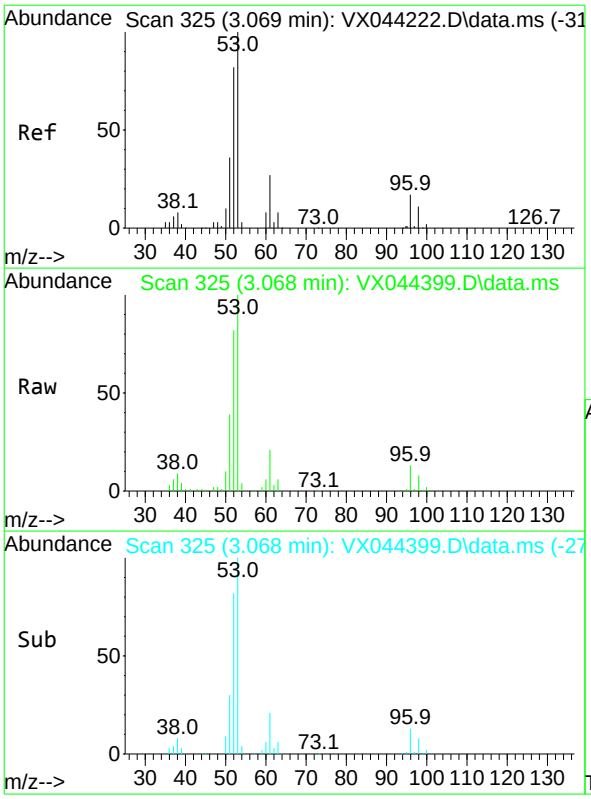


#14
Allyl chloride
Concen: 20.142 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 41 Resp: 48506

Ion	Ratio	Lower	Upper
41	100		
39	74.5	61.9	92.9
76	33.6	27.4	41.2

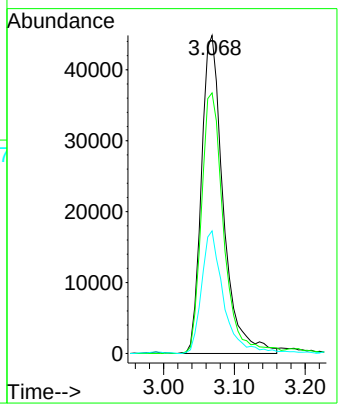




#15
Acrylonitrile
Concen: 108.791 ug/l
RT: 3.068 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 53 Resp: 96056

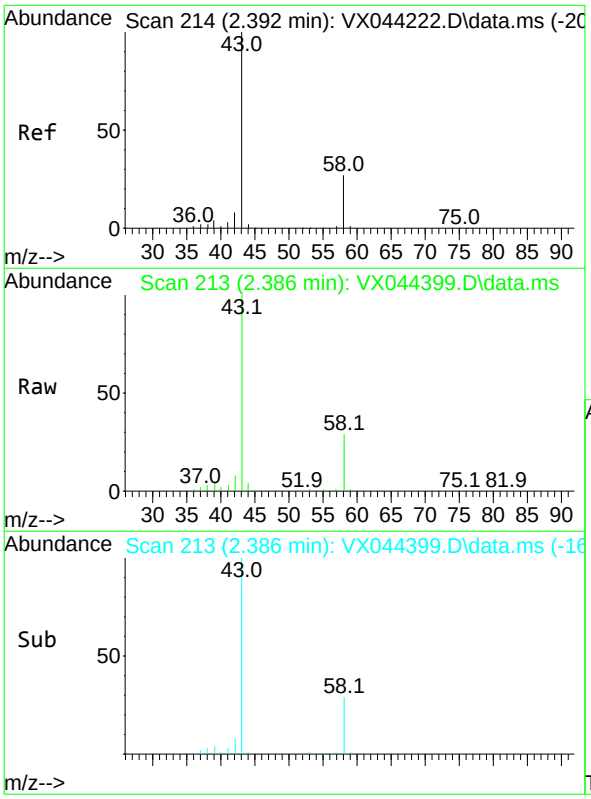
Ion	Ratio	Lower	Upper
53	100		
52	83.2	67.4	101.0
51	39.3	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

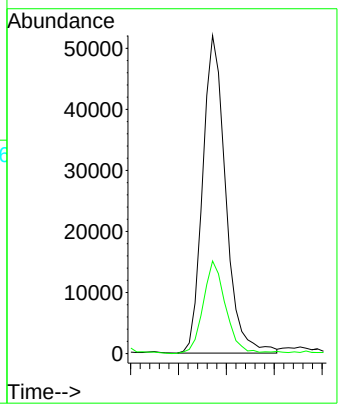
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

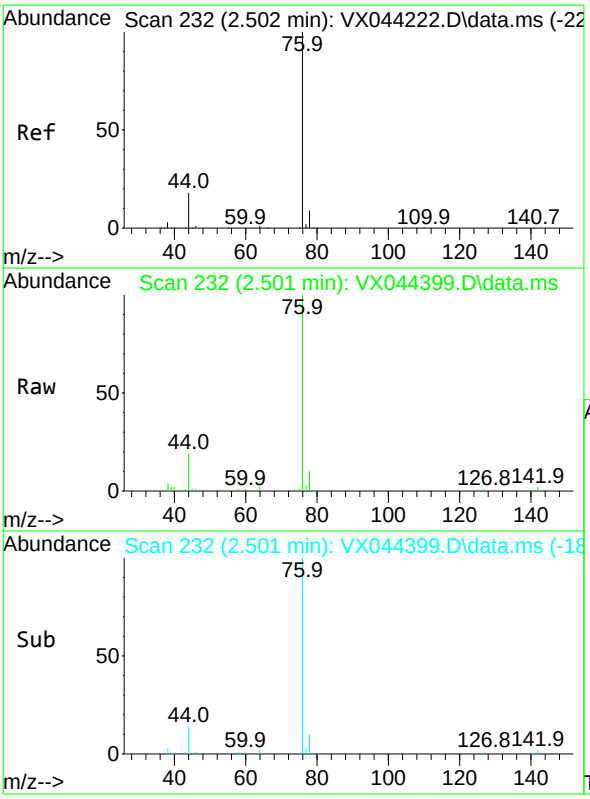


#16
Acetone
Concen: 94.139 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 43 Resp: 86799

Ion	Ratio	Lower	Upper
43	100		
58	29.0	21.6	32.4





#17
Carbon Disulfide
Concen: 18.822 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

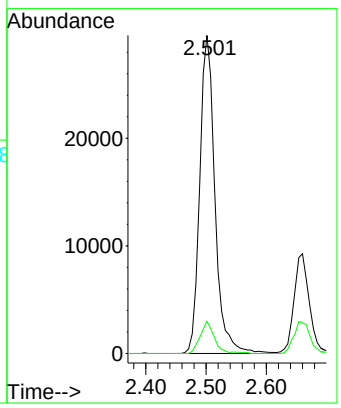
Tgt Ion: 76 Resp: 51728

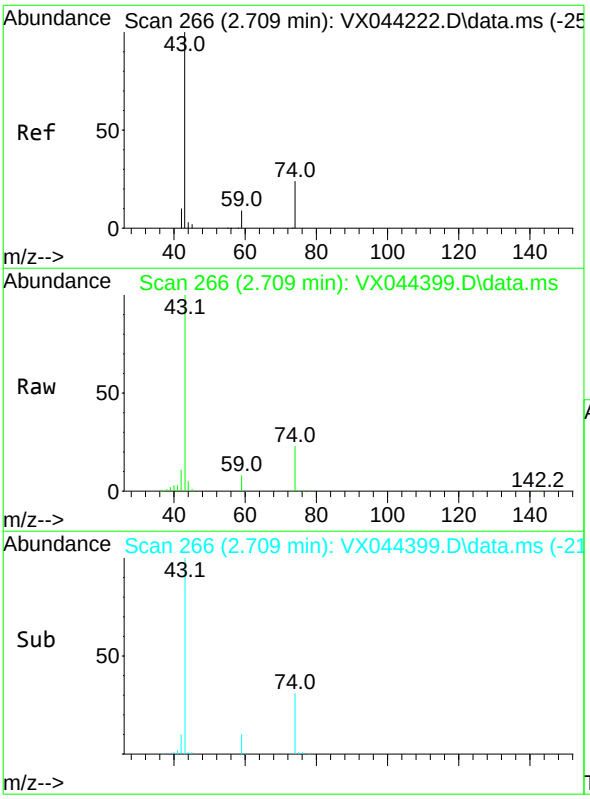
Ion	Ratio	Lower	Upper
76	100		
78	10.1	7.4	11.0

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

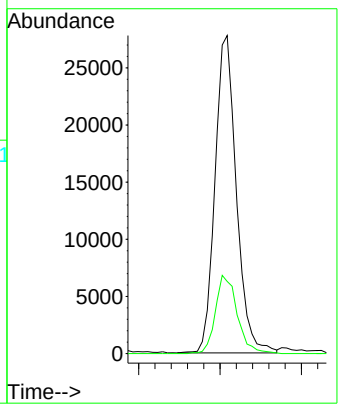


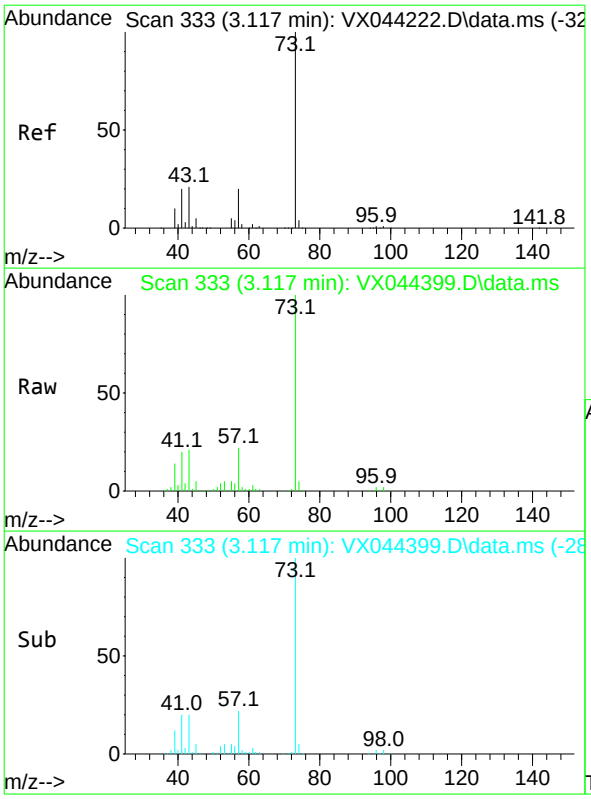


#18
Methyl Acetate
Concen: 21.267 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 43 Resp: 50558

Ion	Ratio	Lower	Upper
43	100		
74	25.2	17.7	26.5

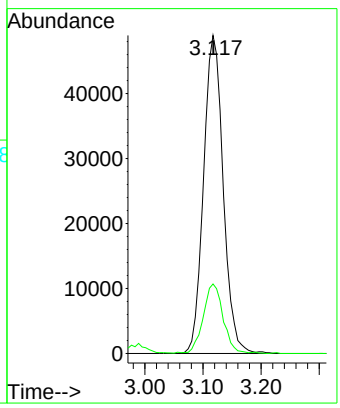




#19
Methyl tert-butyl Ether
Concen: 20.358 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 73 Resp: 114860

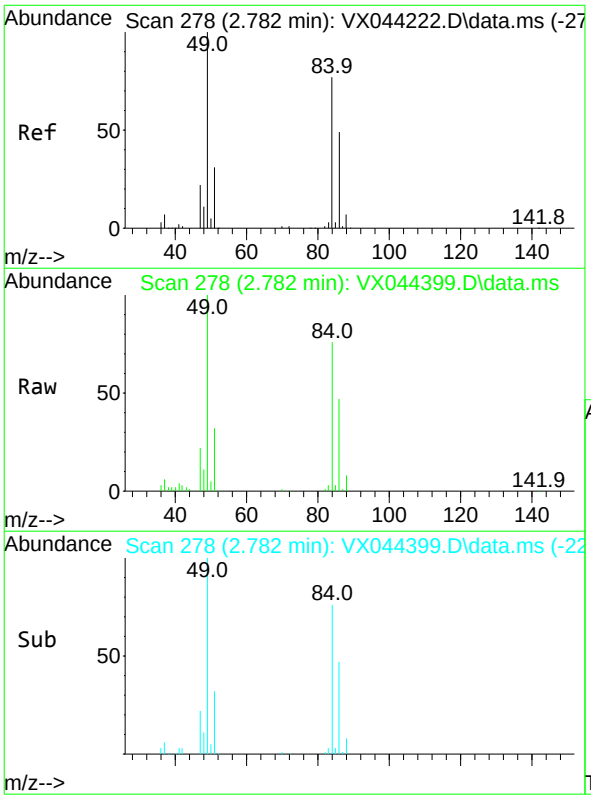
Ion	Ratio	Lower	Upper
73	100		
57	21.6	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

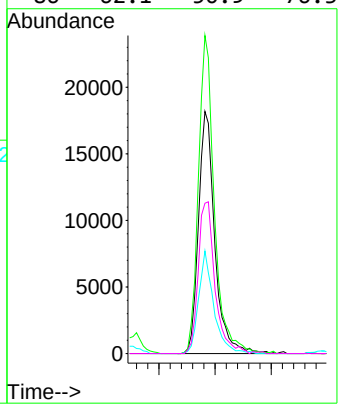
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

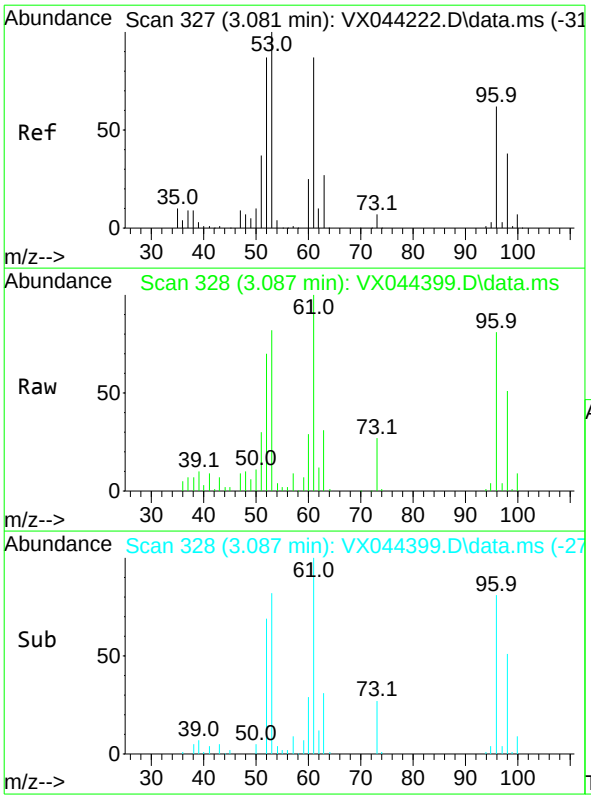


#20
Methylene Chloride
Concen: 21.177 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 84 Resp: 36674

Ion	Ratio	Lower	Upper
84	100		
49	131.4	104.2	156.4
51	42.4	32.2	48.4
86	62.1	50.9	76.3





#21
trans-1,2-Dichloroethene
Concen: 19.753 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

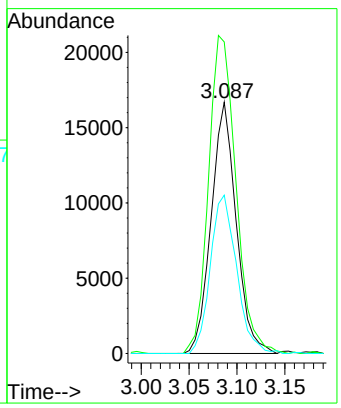
Tgt Ion: 96 Resp: 30353

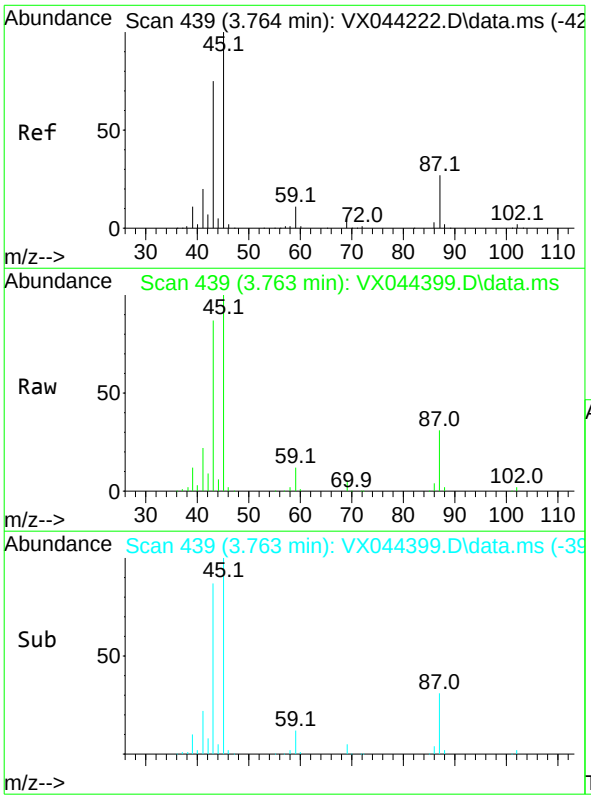
Ion	Ratio	Lower	Upper
96	100		
61	124.0	112.0	168.0
98	63.0	48.8	73.2

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

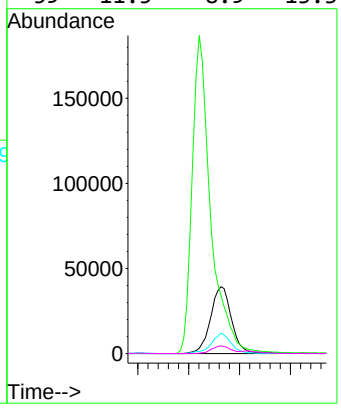


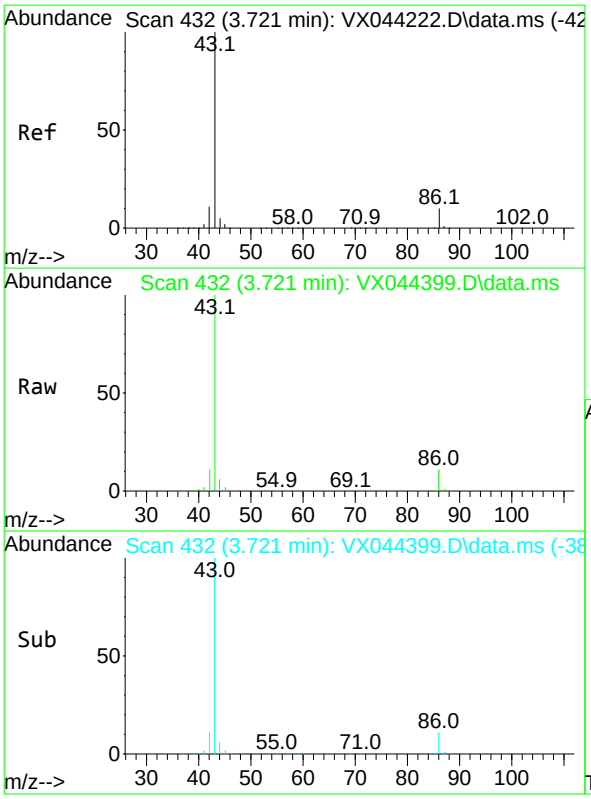


#22
Diisopropyl ether
Concen: 20.757 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 45 Resp: 112563

Ion	Ratio	Lower	Upper
45	100		
43	86.0	60.2	90.2
87	30.8	21.2	31.8
59	11.5	8.9	13.3





#23
Vinyl Acetate
Concen: 107.800 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

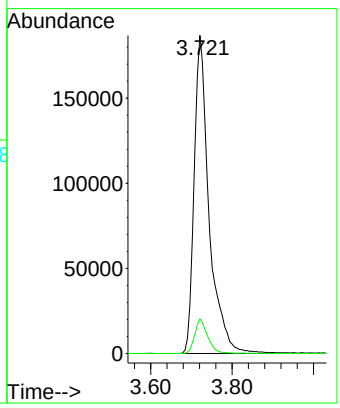
Tgt Ion: 43 Resp: 475270

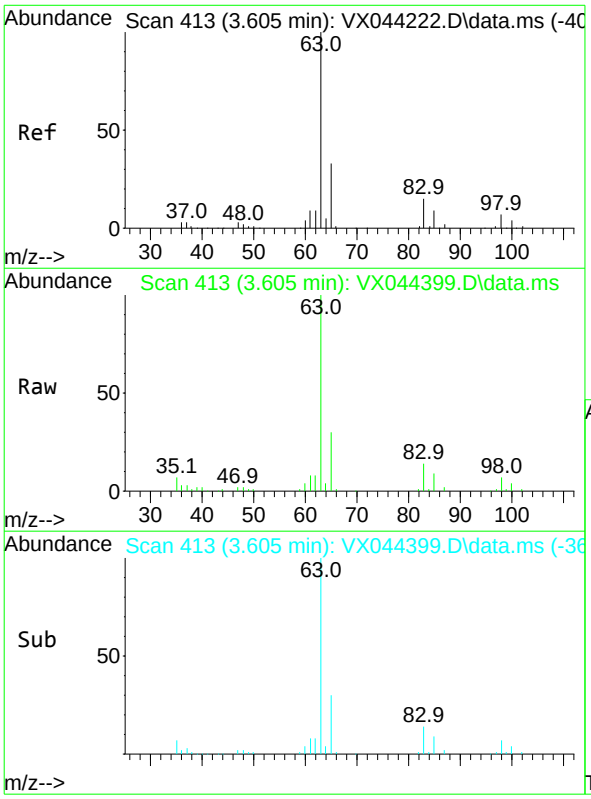
Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.2	12.2

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

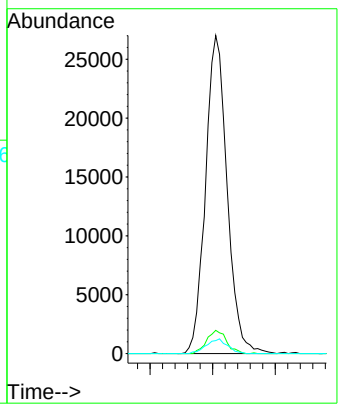


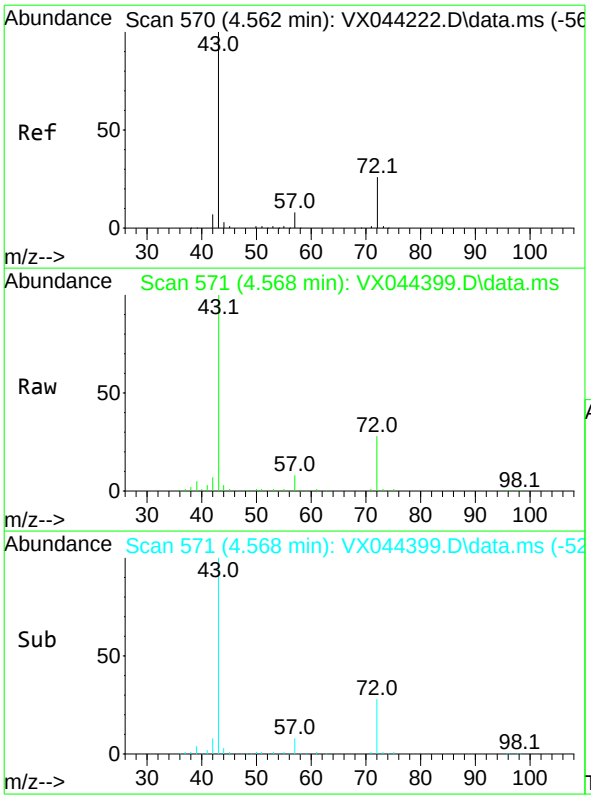


#24
1,1-Dichloroethane
Concen: 21.428 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 63 Resp: 64774

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.6	10.8
100	4.1	2.1	6.3

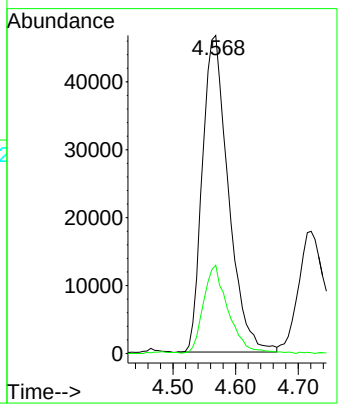




#25
2-Butanone
Concen: 102.837 ug/l
RT: 4.568 min Scan# 57
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 43 Resp: 134799

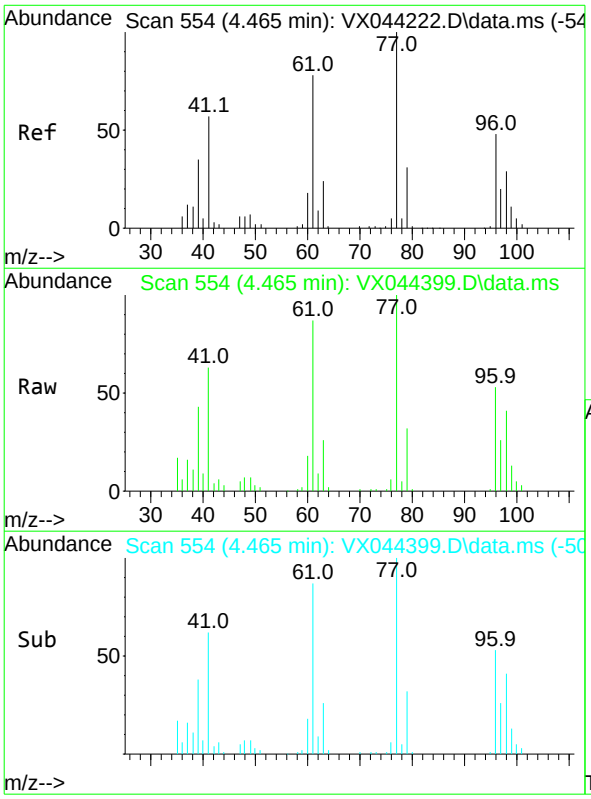
Ion	Ratio	Lower	Upper
43	100		
72	27.6	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

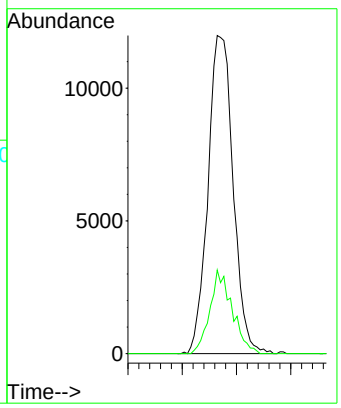
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

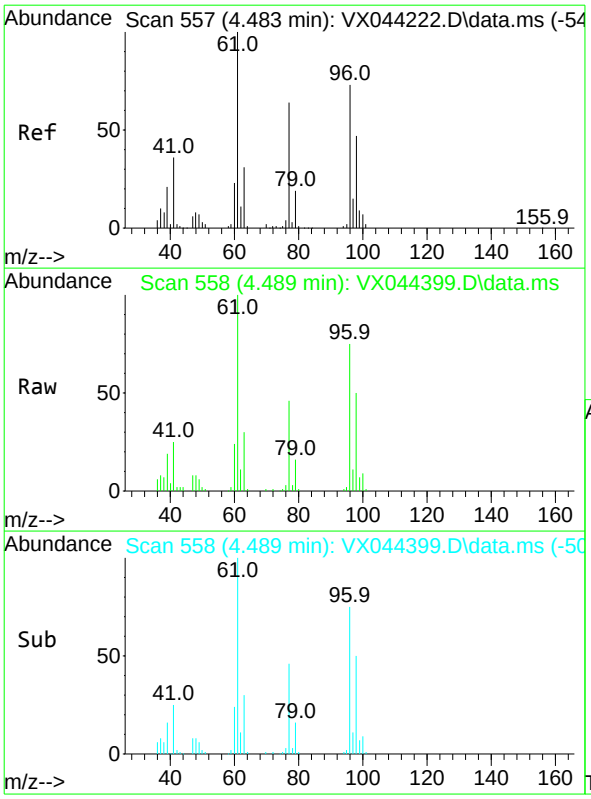


#26
2,2-Dichloropropane
Concen: 15.708 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 77 Resp: 38575

Ion	Ratio	Lower	Upper
77	100		
97	23.3	10.7	32.1





#27
cis-1,2-Dichloroethene
Concen: 20.385 ug/l
RT: 4.489 min Scan# 55
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

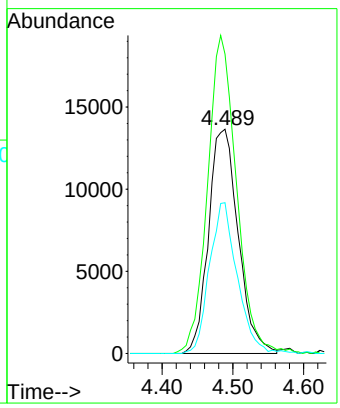
Tgt Ion: 96 Resp: 39781

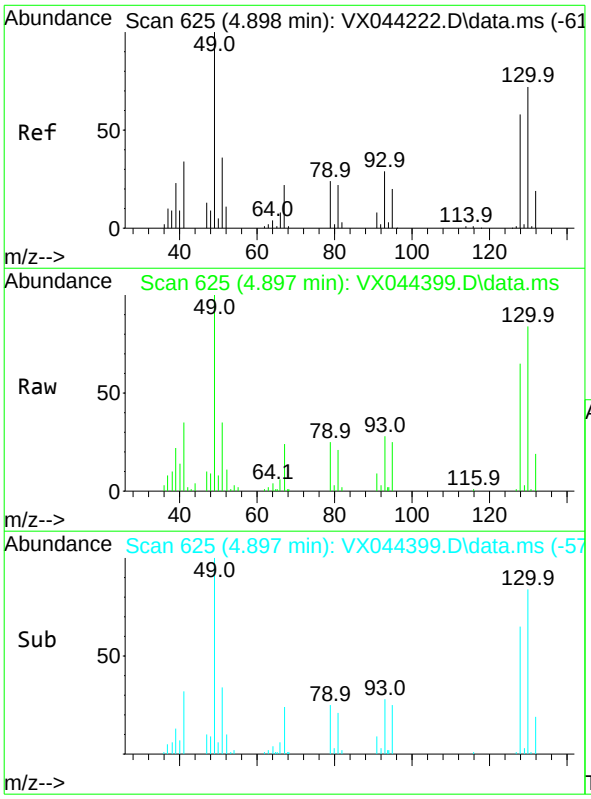
Ion	Ratio	Lower	Upper
96	100		
61	138.6	0.0	299.0
98	63.0	0.0	129.0

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

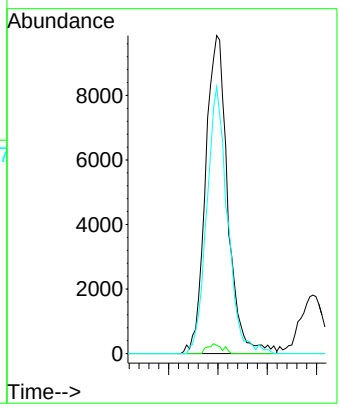


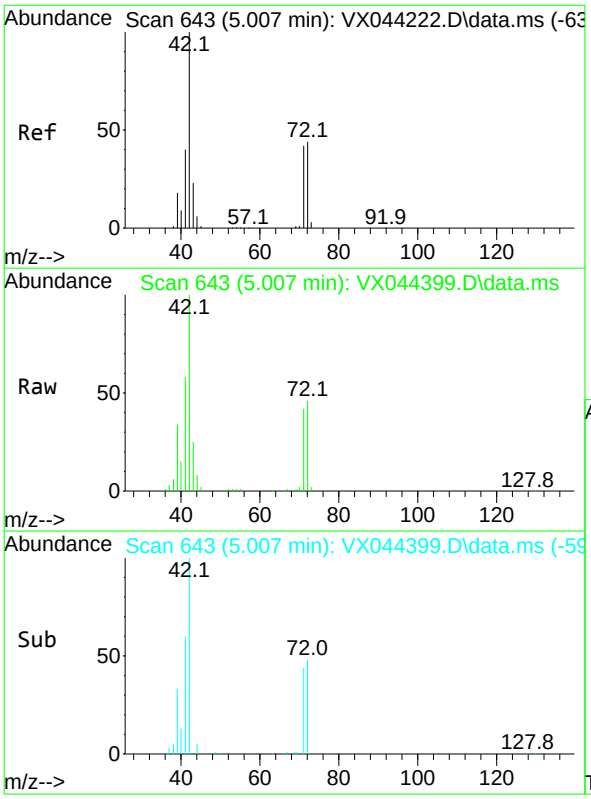


#28
Bromochloromethane
Concen: 20.816 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 49 Resp: 30856

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	77.8	62.1	93.1

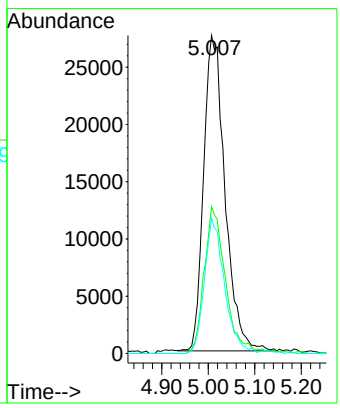




#29
Tetrahydrofuran
Concen: 104.485 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 42 Resp: 87910

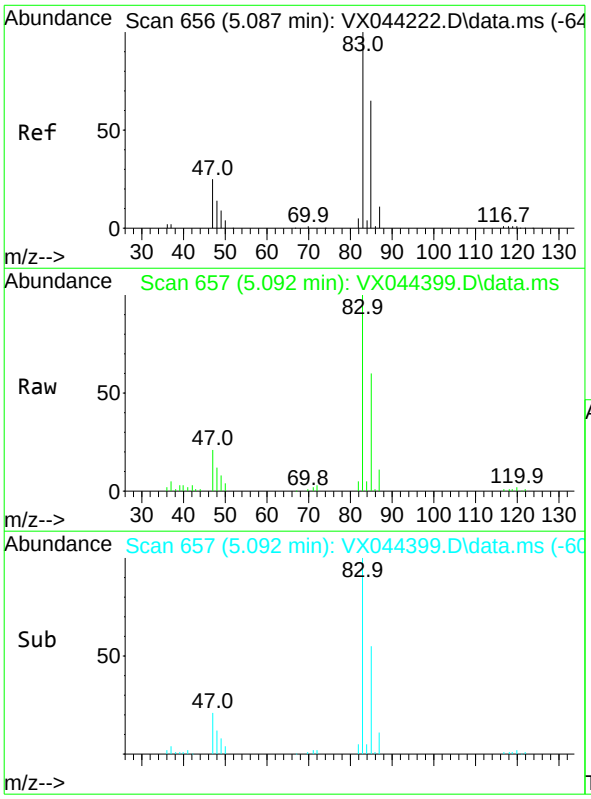
Ion	Ratio	Lower	Upper
42	100		
72	46.8	37.0	55.6
71	40.2	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

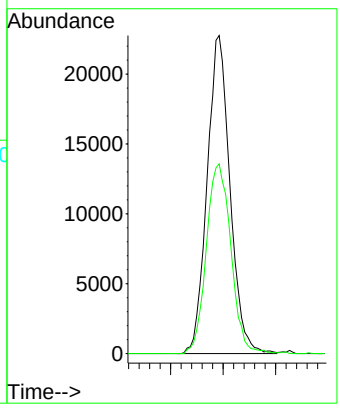
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

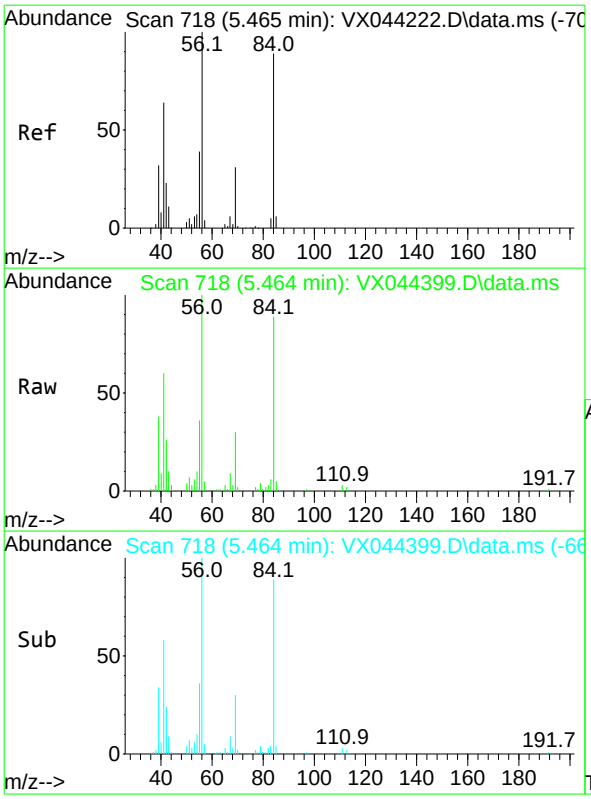


#30
Chloroform
Concen: 20.289 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 83 Resp: 68906

Ion	Ratio	Lower	Upper
83	100		
85	59.7	51.6	77.4





#31
Cyclohexane
Concen: 17.759 ug/l
RT: 5.464 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

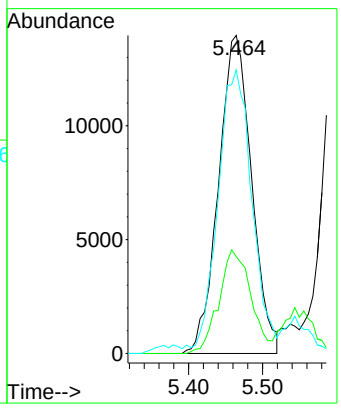
Tgt Ion: 56 Resp: 43349

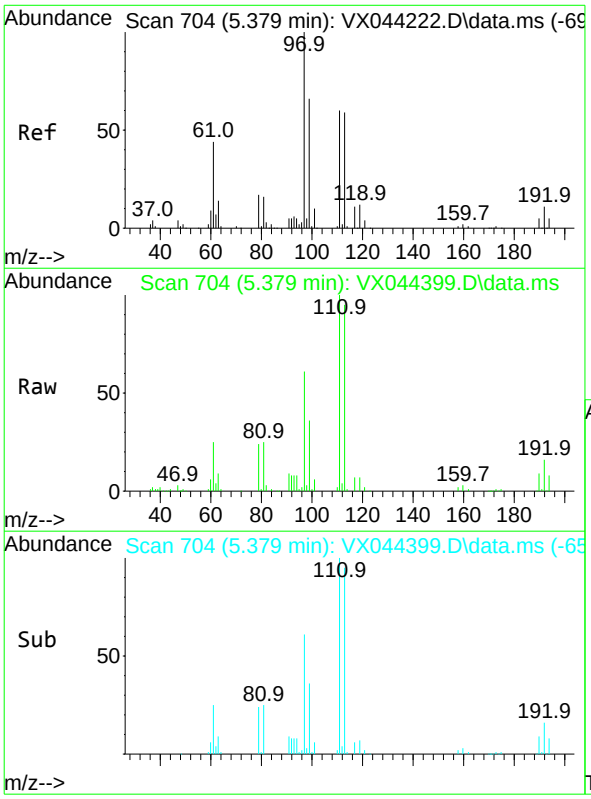
Ion	Ratio	Lower	Upper
56	100		
69	30.5	24.7	37.1
84	86.9	71.0	106.6

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

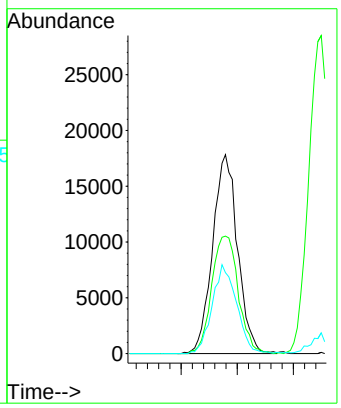


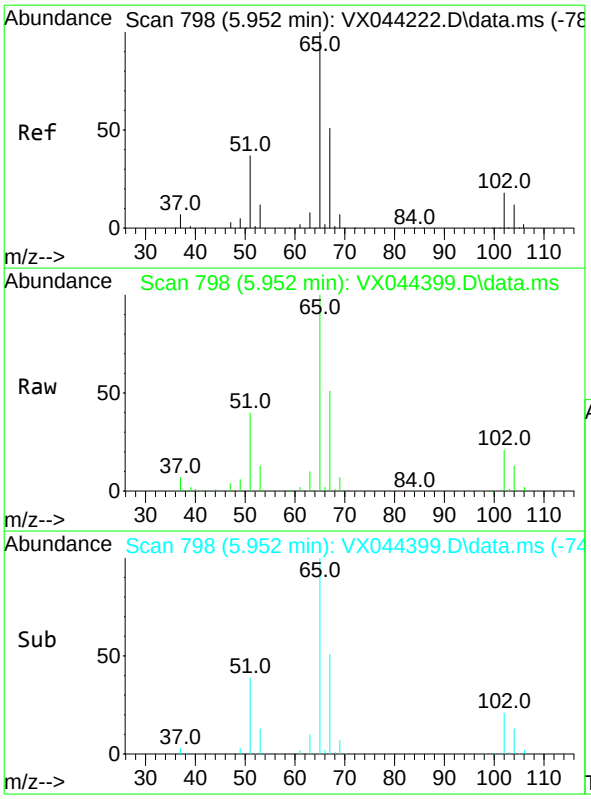


#32
1,1,1-Trichloroethane
Concen: 19.547 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 97 Resp: 55108

Ion	Ratio	Lower	Upper
97	100		
99	62.9	50.8	76.2
61	43.7	35.2	52.8

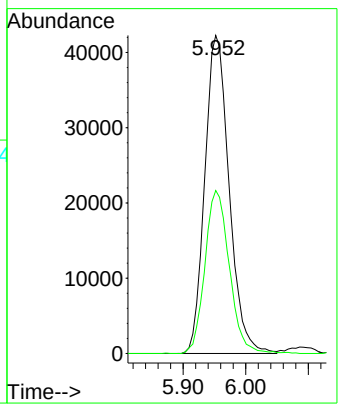




#33
1,2-Dichloroethane-d4
Concen: 50.457 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 65 Resp: 114115

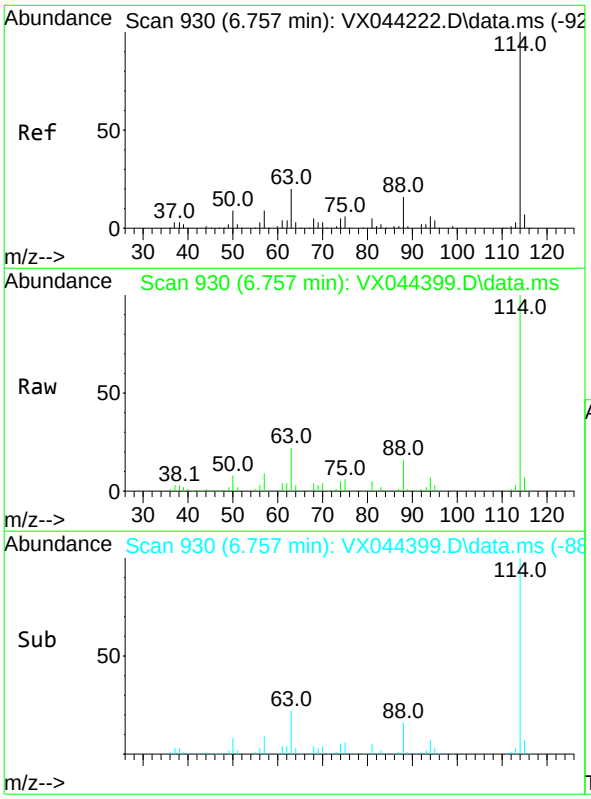
Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

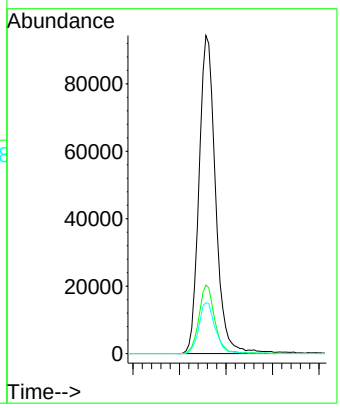
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

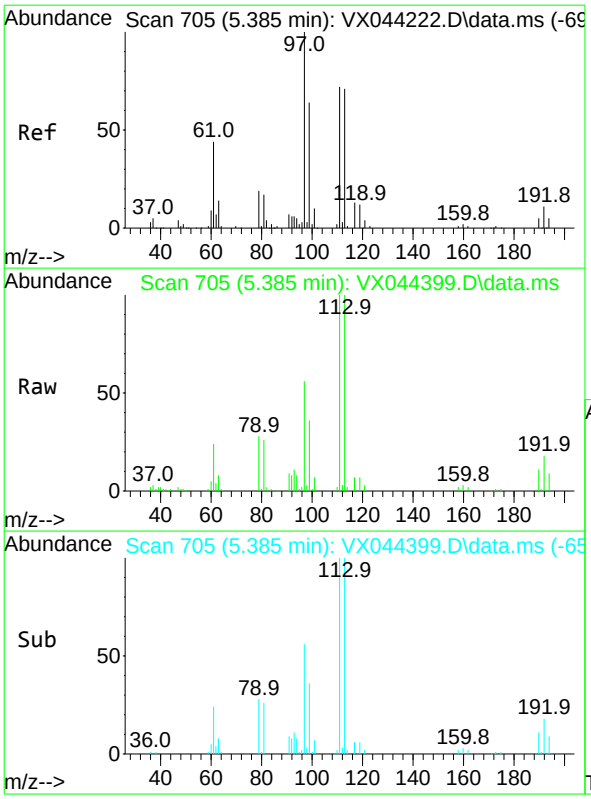


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:114 Resp: 233001

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	40.6
88	16.0	0.0	31.8

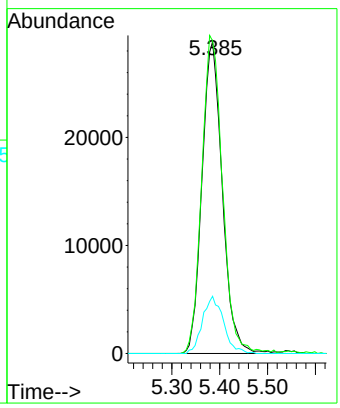




#35
Dibromofluoromethane
Concen: 52.694 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:113 Resp: 85034

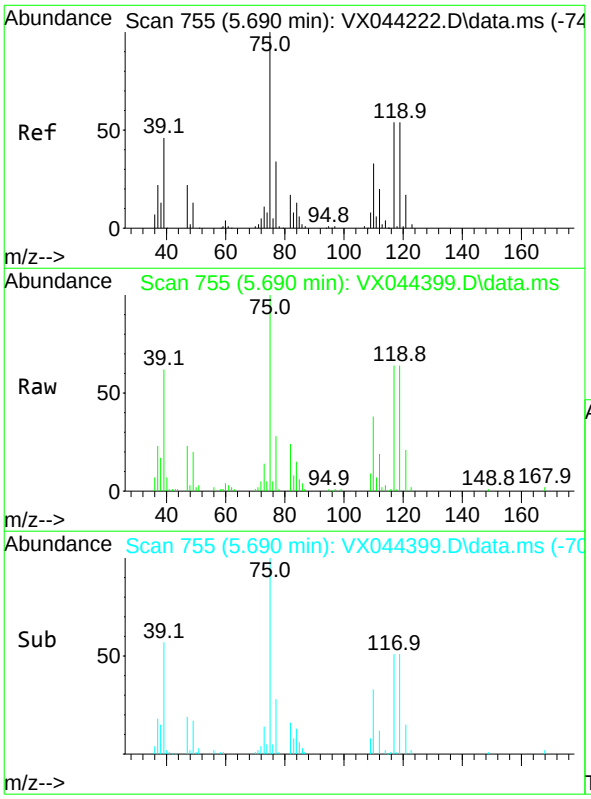
Ion	Ratio	Lower	Upper
113	100		
111	104.3	80.4	120.6
192	19.0	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

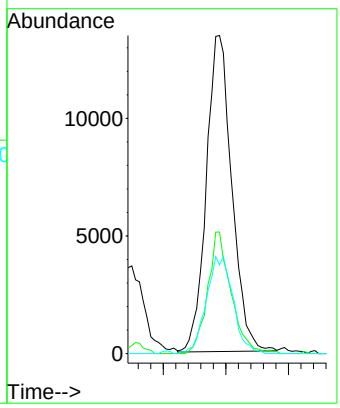
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

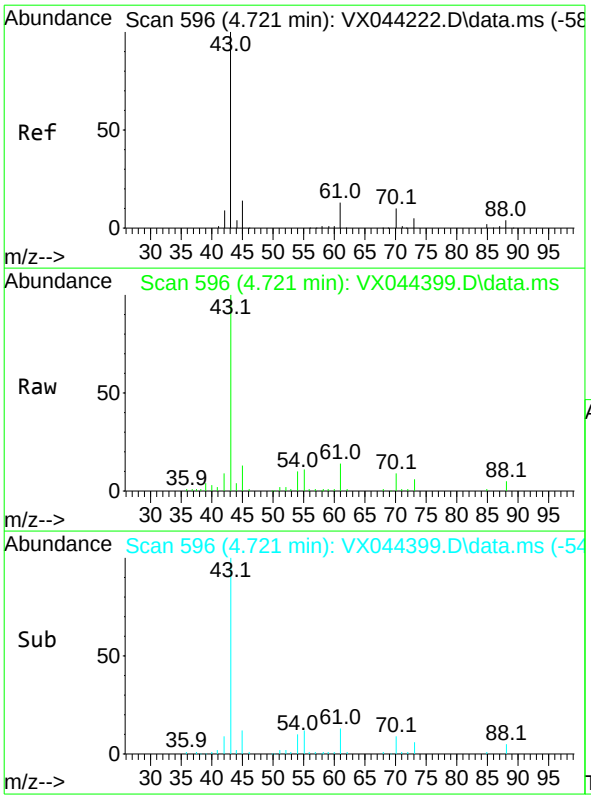


#36
1,1-Dichloropropene
Concen: 18.259 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 75 Resp: 38087

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.3	51.7
77	32.0	25.4	38.0





#37
Ethyl Acetate
Concen: 20.100 ug/l
RT: 4.721 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

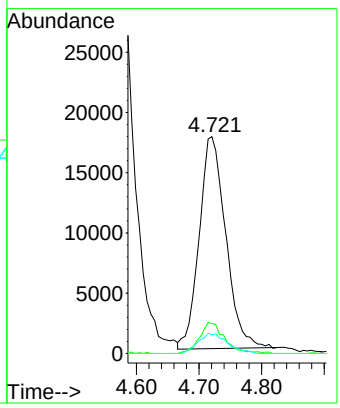
Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

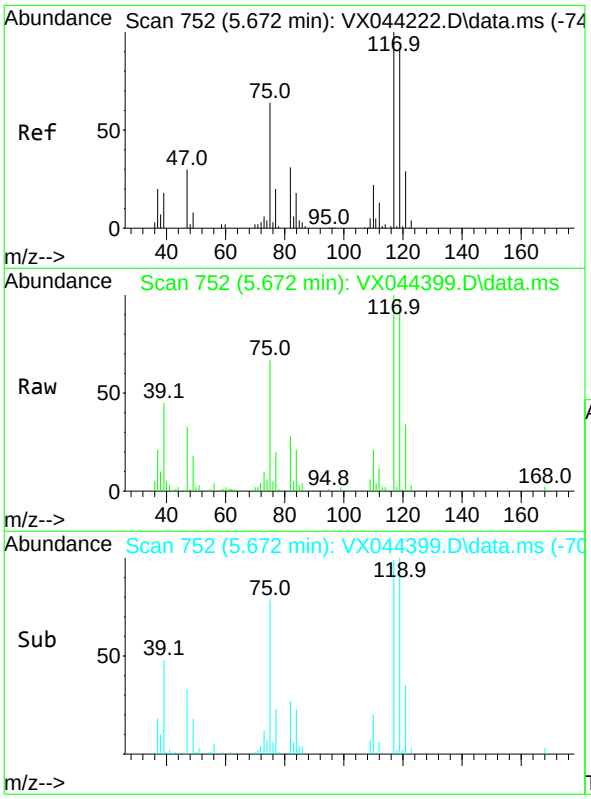
Tgt Ion: 43 Resp: 51828

Ion	Ratio	Lower	Upper
43	100		
61	13.8	9.8	14.8
70	10.5	7.7	11.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

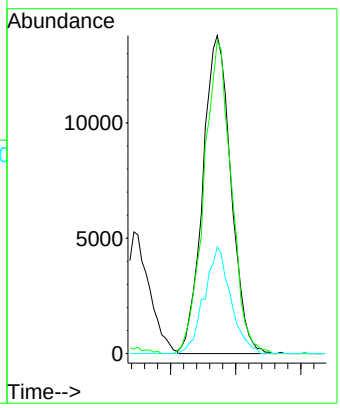


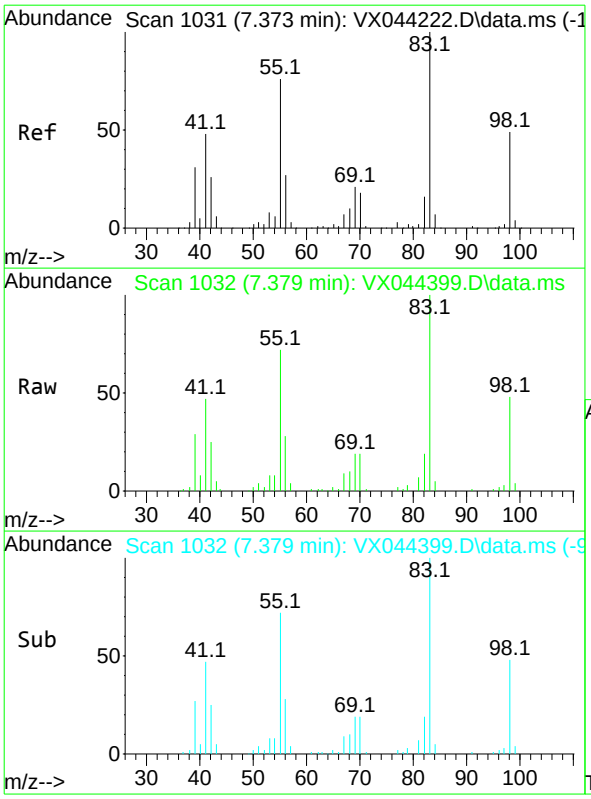


#38
Carbon Tetrachloride
Concen: 18.435 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:117 Resp: 41400

Ion	Ratio	Lower	Upper
117	100		
119	98.3	74.2	111.4
121	33.6	23.0	34.6

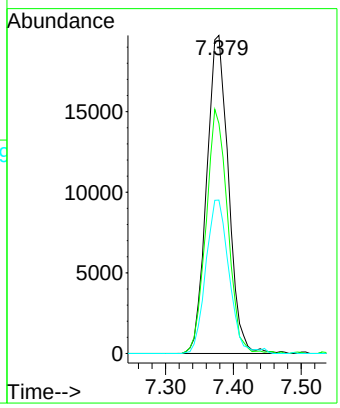




#39
Methylcyclohexane
Concen: 17.665 ug/l
RT: 7.379 min Scan# 10
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 83 Resp: 44052

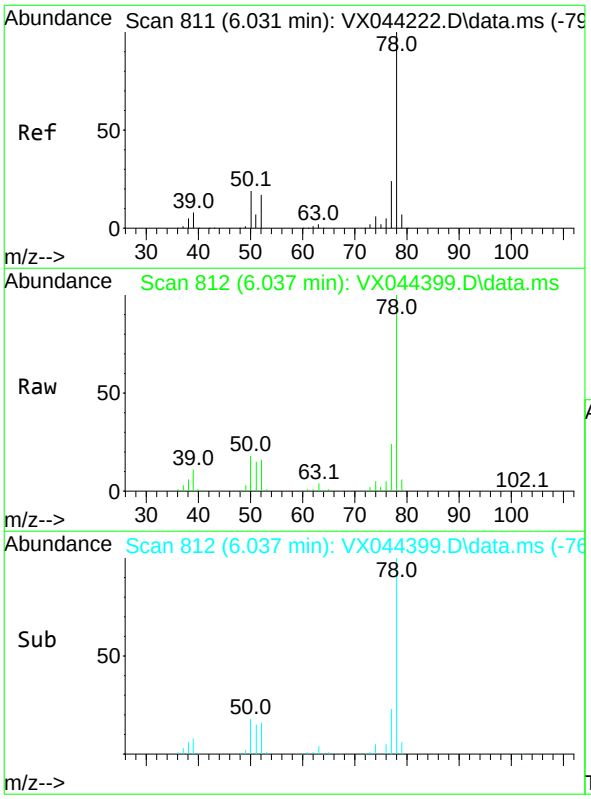
Ion	Ratio	Lower	Upper
83	100		
55	72.3	60.7	91.1
98	48.2	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

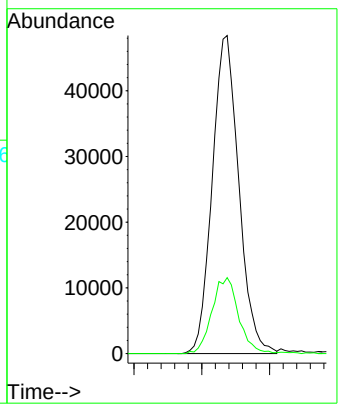
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

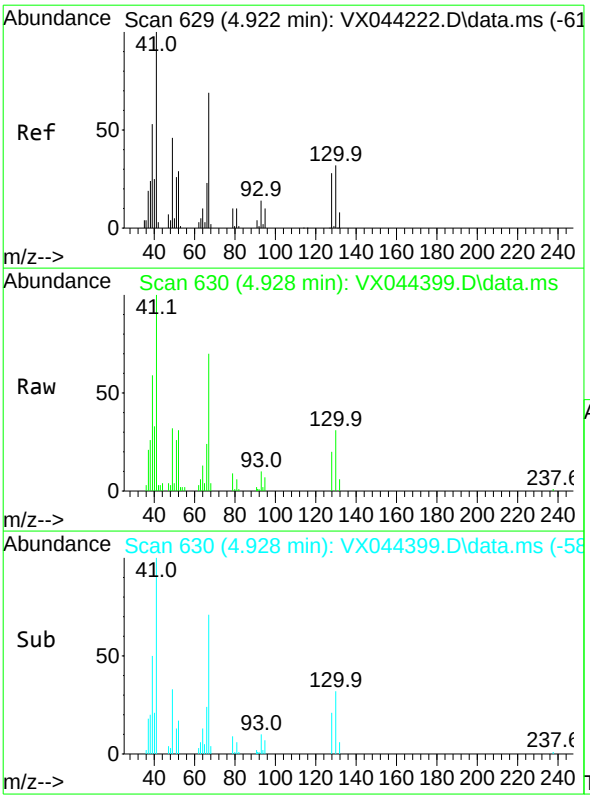


#40
Benzene
Concen: 20.769 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 78 Resp: 131536

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.3	28.9

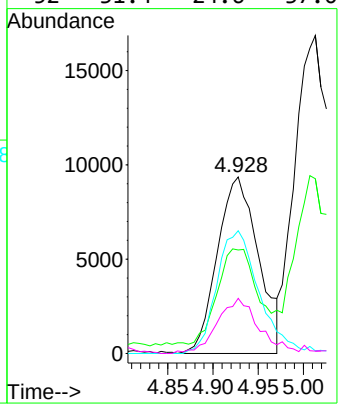




#41
Methacrylonitrile
Concen: 21.629 ug/l
RT: 4.928 min Scan# 63
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 41 Resp: 29615

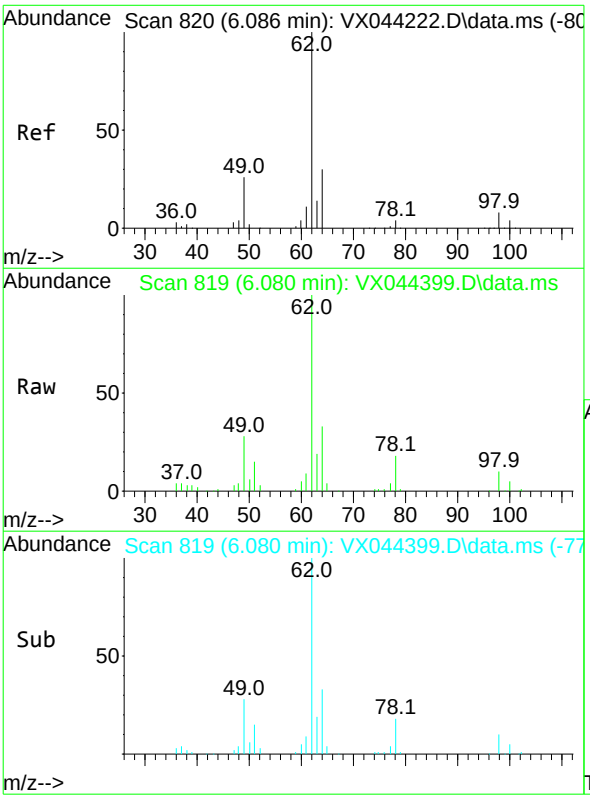
Ion	Ratio	Lower	Upper
41	100		
39	54.6	44.2	66.4
67	71.9	57.2	85.8
52	31.4	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

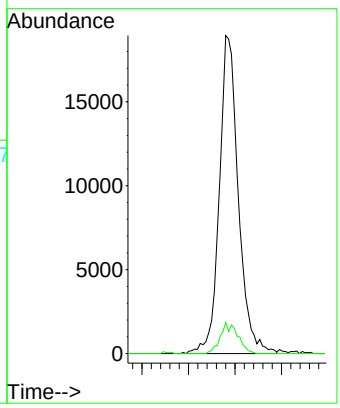
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

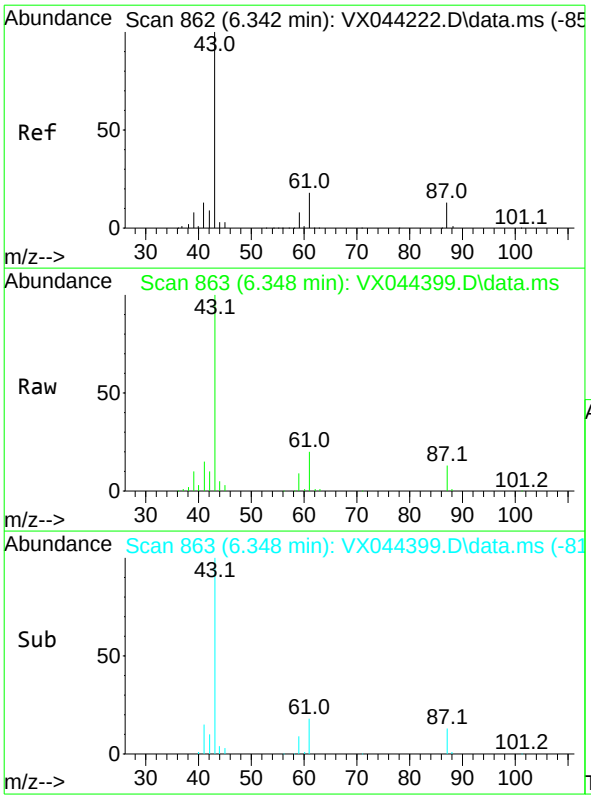


#42
1,2-Dichloroethane
Concen: 20.639 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 62 Resp: 53845

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	15.8

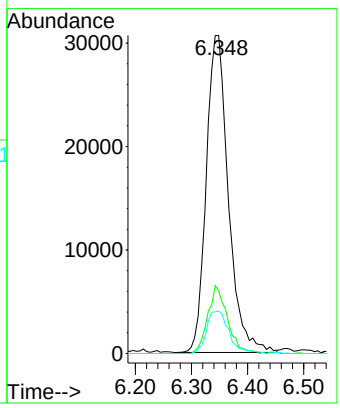




#43
Isopropyl Acetate
Concen: 20.849 ug/l
RT: 6.348 min Scan# 86
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 43 Resp: 84024

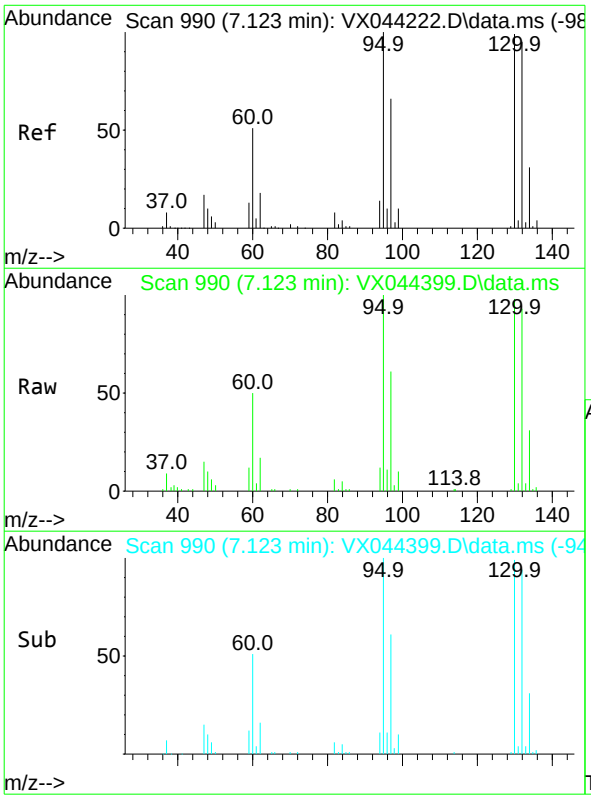
Ion	Ratio	Lower	Upper
43	100		
61	19.0	14.2	21.2
87	13.6	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

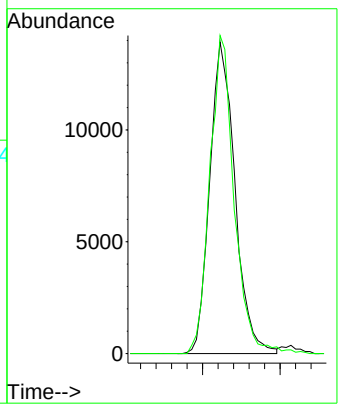
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

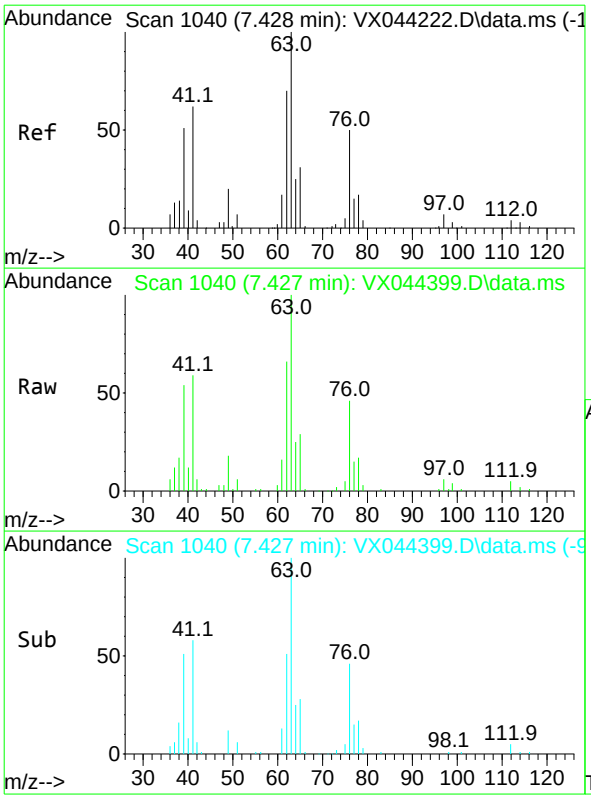


#44
Trichloroethene
Concen: 19.941 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:130 Resp: 31494

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	201.4





#45
1,2-Dichloropropane
Concen: 20.711 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

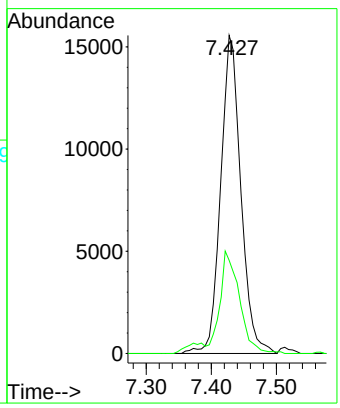
Tgt Ion: 63 Resp: 33512

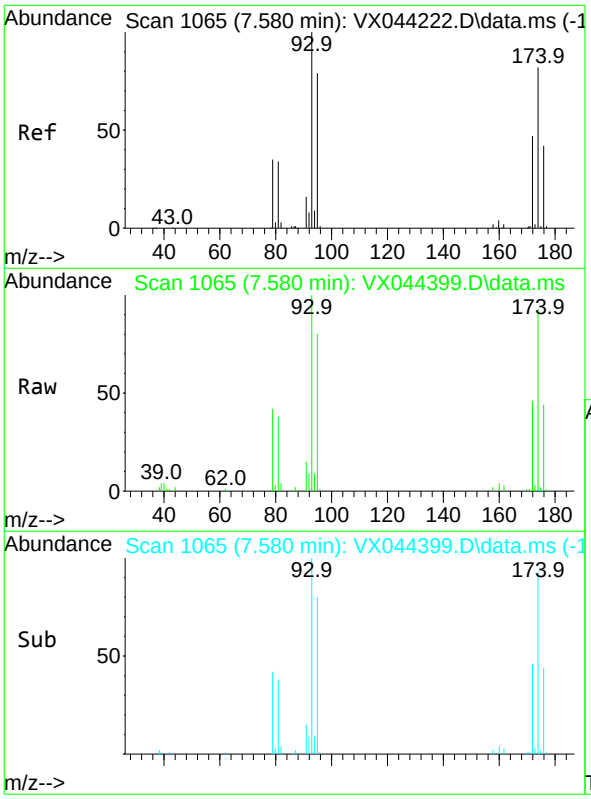
Ion	Ratio	Lower	Upper
63	100		
65	28.8	24.6	37.0

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

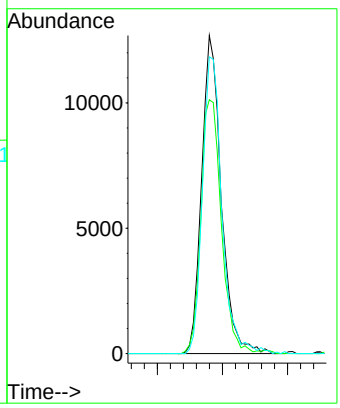


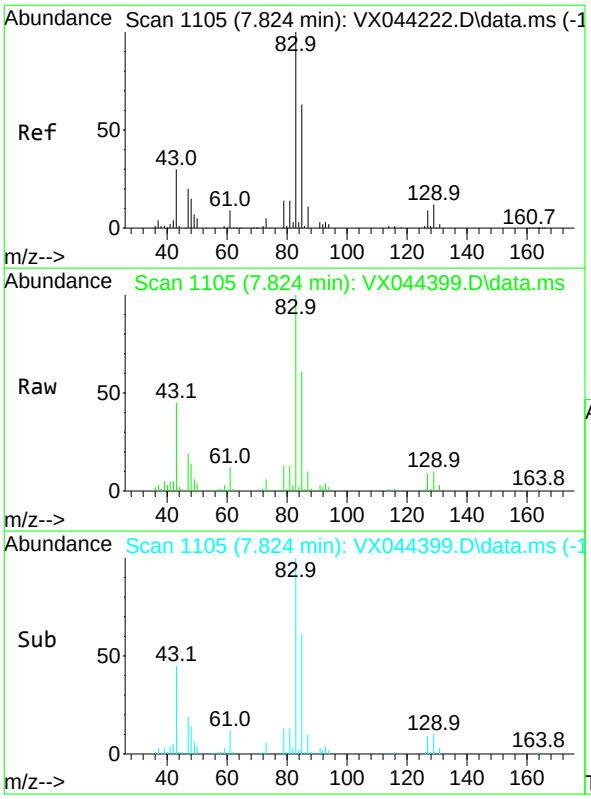


#46
Dibromomethane
Concen: 21.182 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 93 Resp: 26590

Ion	Ratio	Lower	Upper
93	100		
95	83.2	65.4	98.2
174	92.7	67.9	101.9

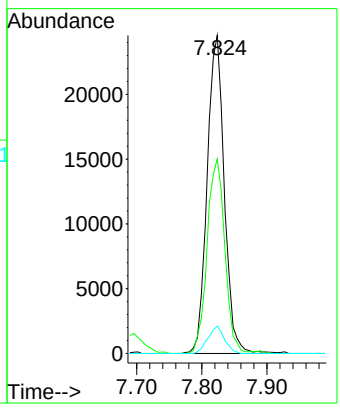




#47
Bromodichloromethane
Concen: 20.717 ug/l
RT: 7.824 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 83 Resp: 44915

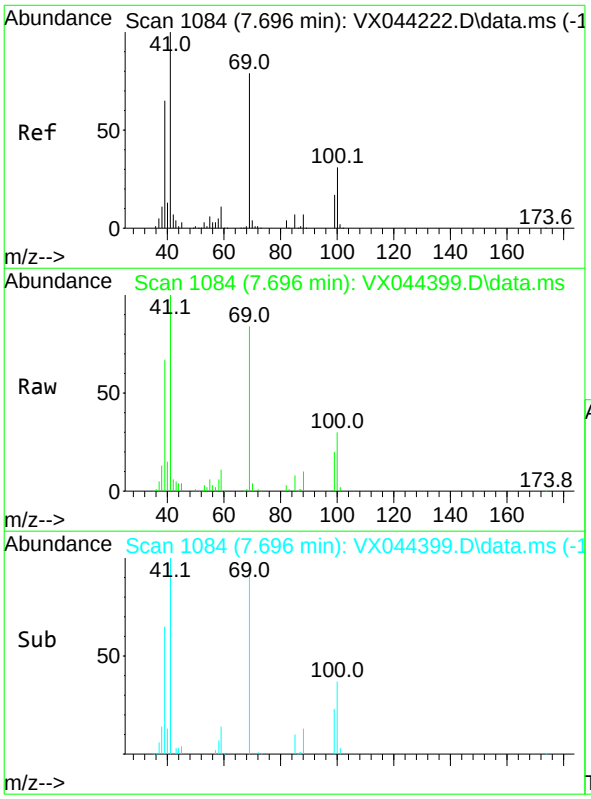
Ion	Ratio	Lower	Upper
83	100		
85	61.2	50.6	75.8
127	8.6	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

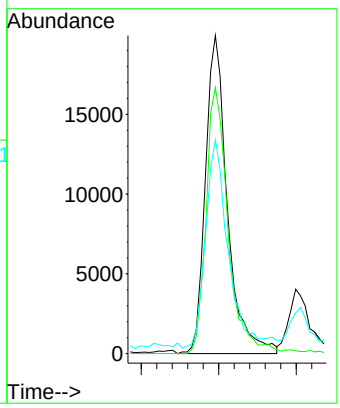
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

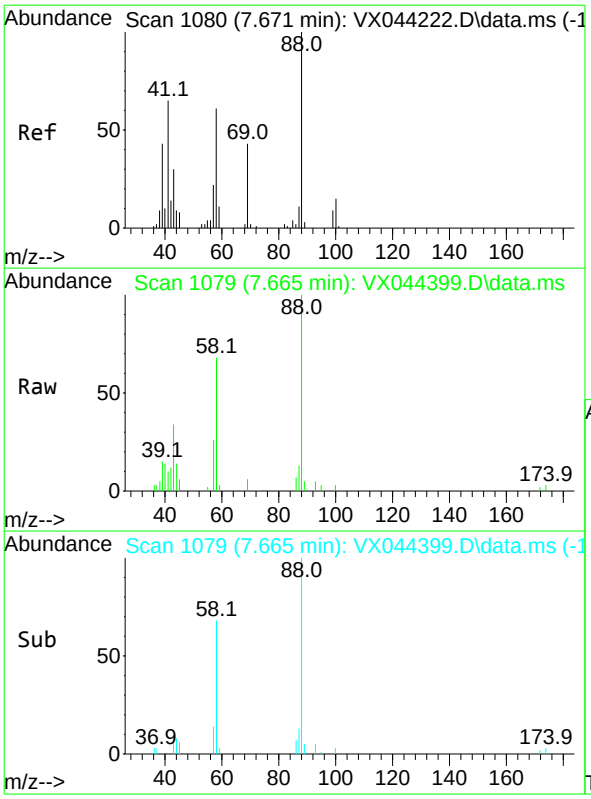


#48
Methyl methacrylate
Concen: 20.050 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 41 Resp: 39226

Ion	Ratio	Lower	Upper
41	100		
69	84.0	62.4	93.6
39	66.2	53.3	79.9

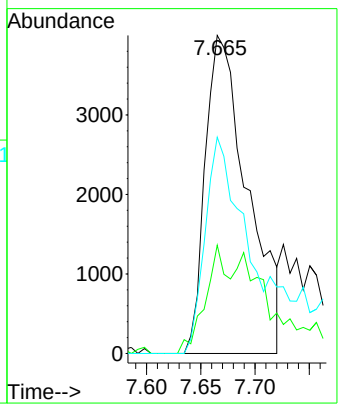




#49
1,4-Dioxane
Concen: 335.893 ug/l
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 88 Resp: 10895

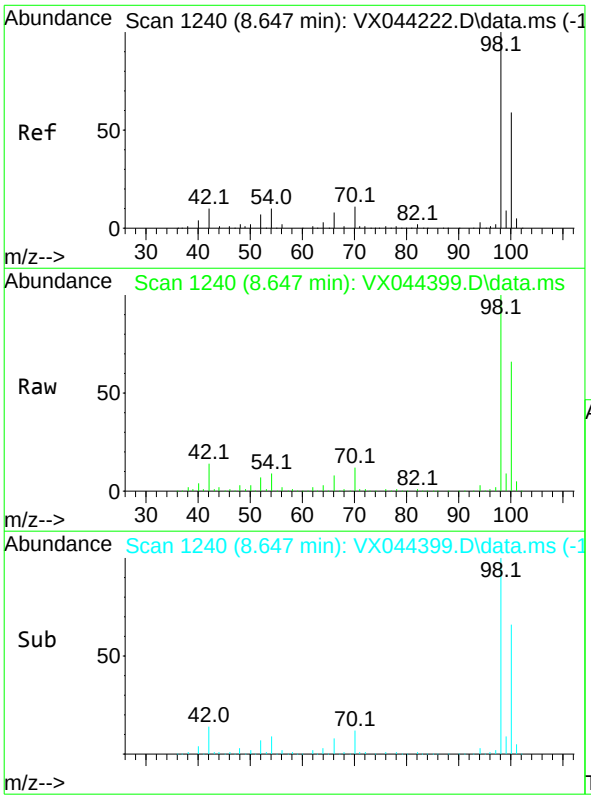
Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.1	40.7#
58	60.8	41.0	61.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

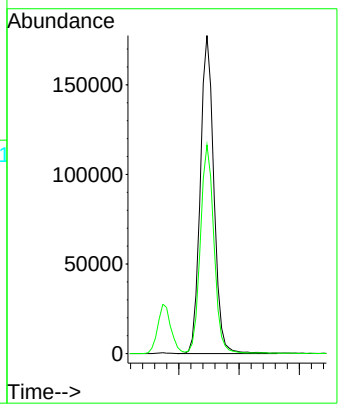
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

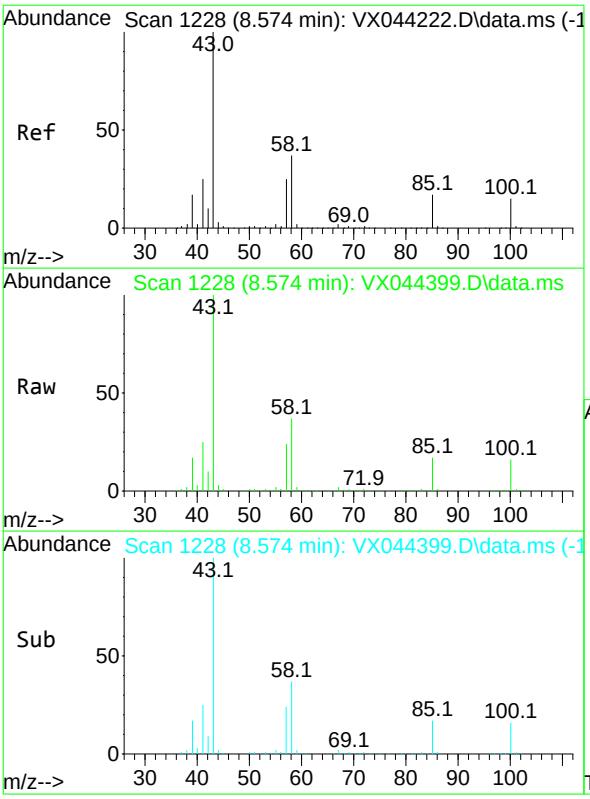


#50
Toluene-d8
Concen: 50.909 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 98 Resp: 277165

Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 106.686 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

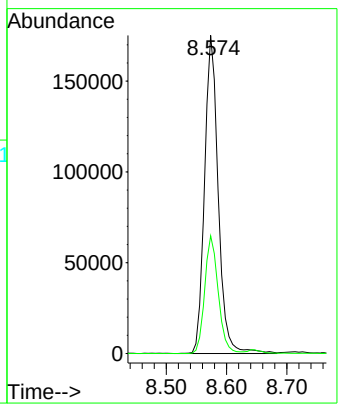
Tgt Ion: 43 Resp: 276459

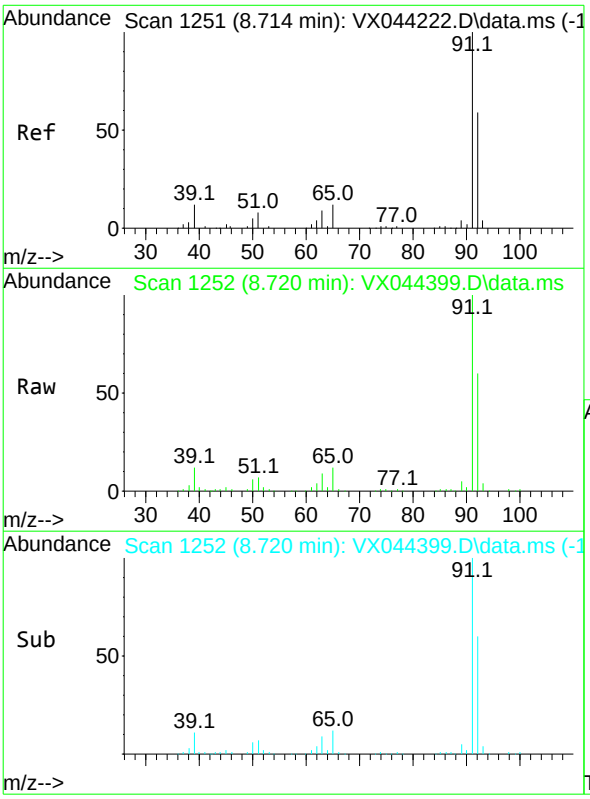
Ion	Ratio	Lower	Upper
43	100		
58	36.4	29.4	44.0

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

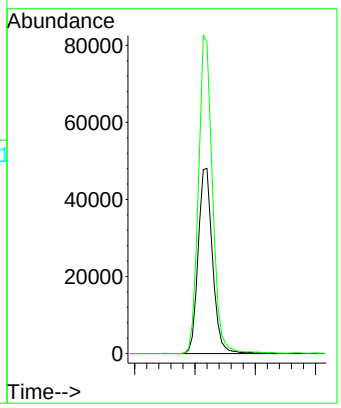


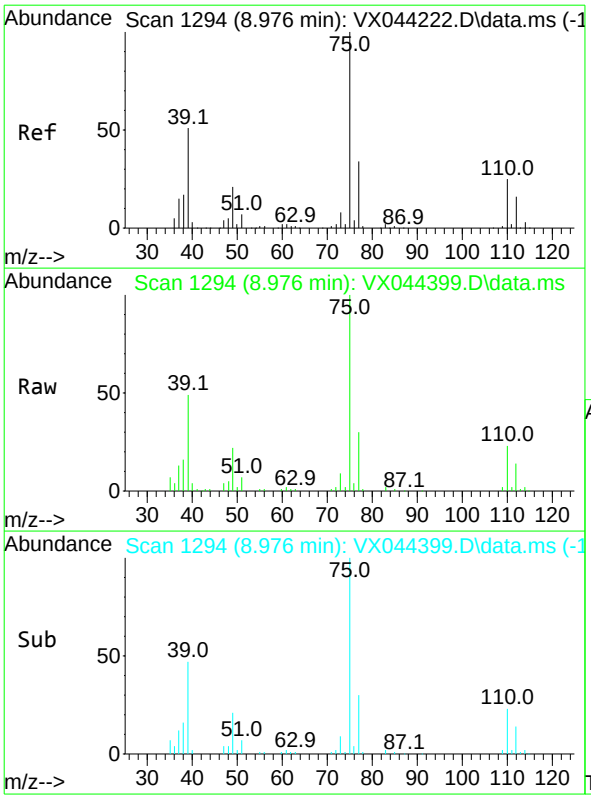


#52
Toluene
Concen: 20.006 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 92 Resp: 79570

Ion	Ratio	Lower	Upper
92	100		
91	168.2	137.0	205.6

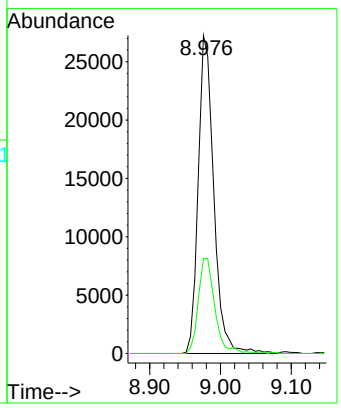




#53
t-1,3-Dichloropropene
Concen: 19.130 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 75 Resp: 41702

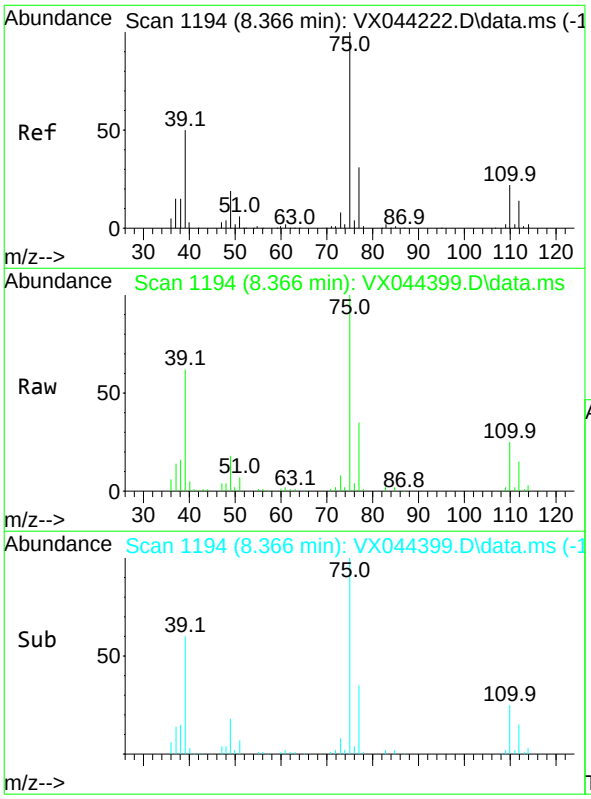
Ion	Ratio	Lower	Upper
75	100		
77	29.8	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

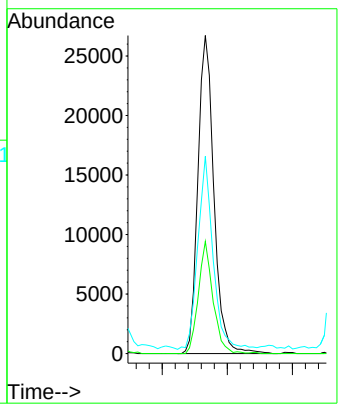
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

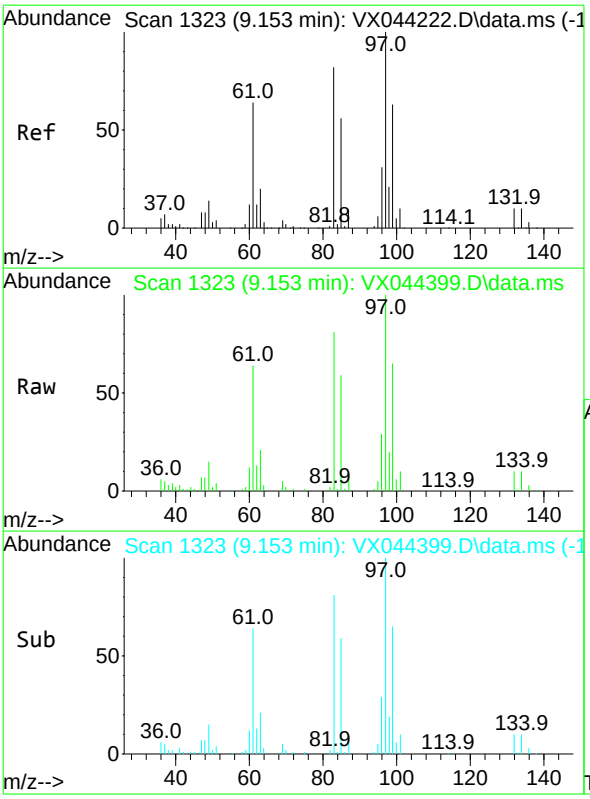


#54
cis-1,3-Dichloropropene
Concen: 19.319 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 75 Resp: 45604

Ion	Ratio	Lower	Upper
75	100		
77	35.3	24.7	37.1
39	60.7	40.3	60.5#

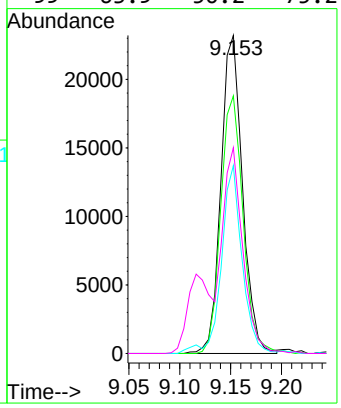




#55
1,1,2-Trichloroethane
Concen: 21.643 ug/l
RT: 9.153 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 97 Resp: 34197

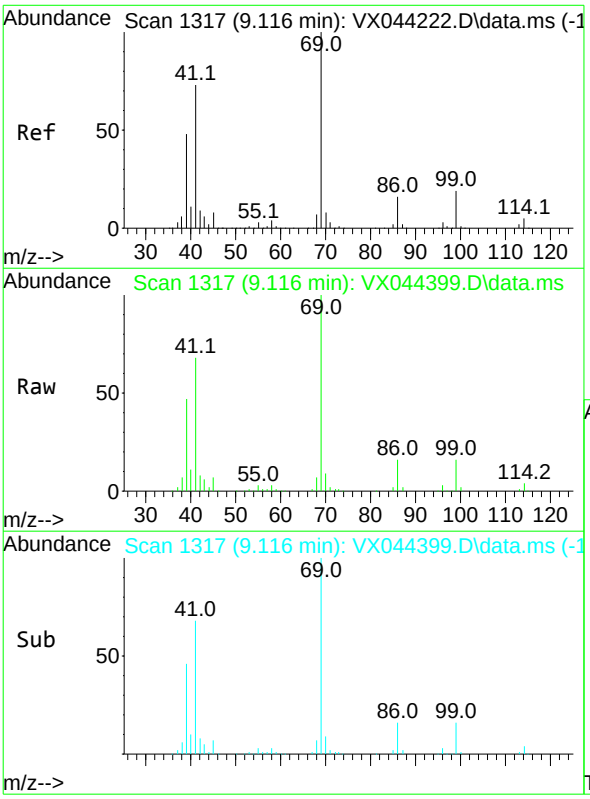
Ion	Ratio	Lower	Upper
97	100		
83	81.0	65.3	97.9
85	59.1	44.6	67.0
99	63.9	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

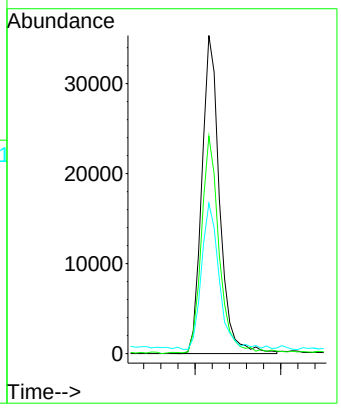
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

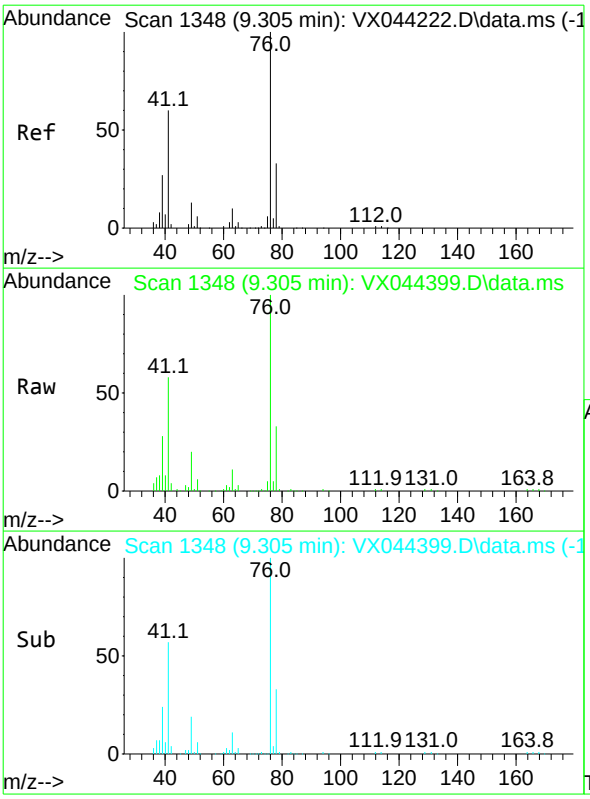


#56
Ethyl methacrylate
Concen: 20.388 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 69 Resp: 50855

Ion	Ratio	Lower	Upper
69	100		
41	69.3	56.6	85.0
39	45.9	37.4	56.0

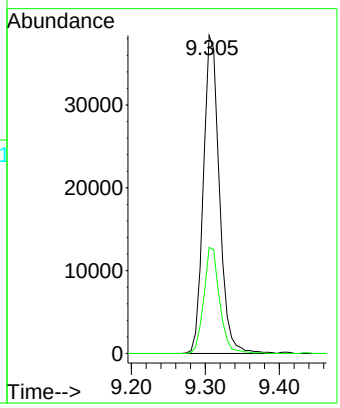




#57
1,3-Dichloropropane
Concen: 20.991 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 76 Resp: 57729

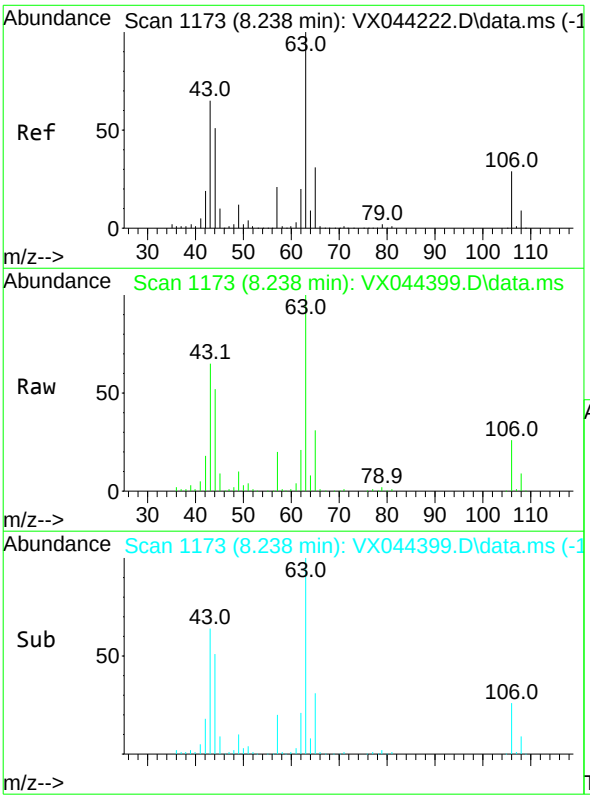
Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

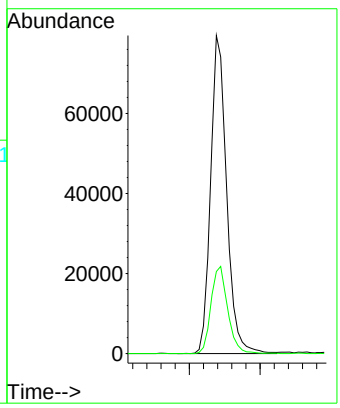
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

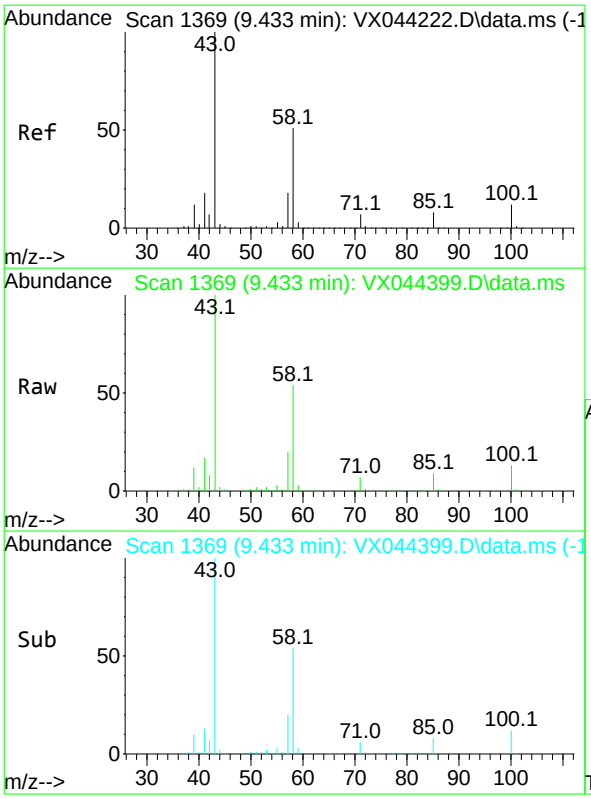


#58
2-Chloroethyl Vinyl ether
Concen: 99.300 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 63 Resp: 124927

Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.8	34.2





#59
2-Hexanone
Concen: 105.460 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

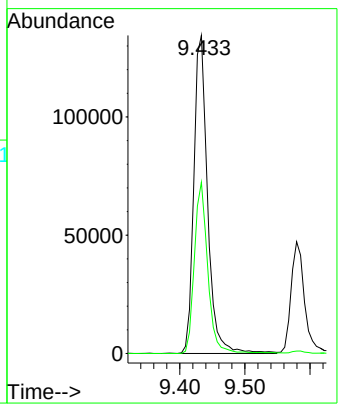
Tgt Ion: 43 Resp: 197809

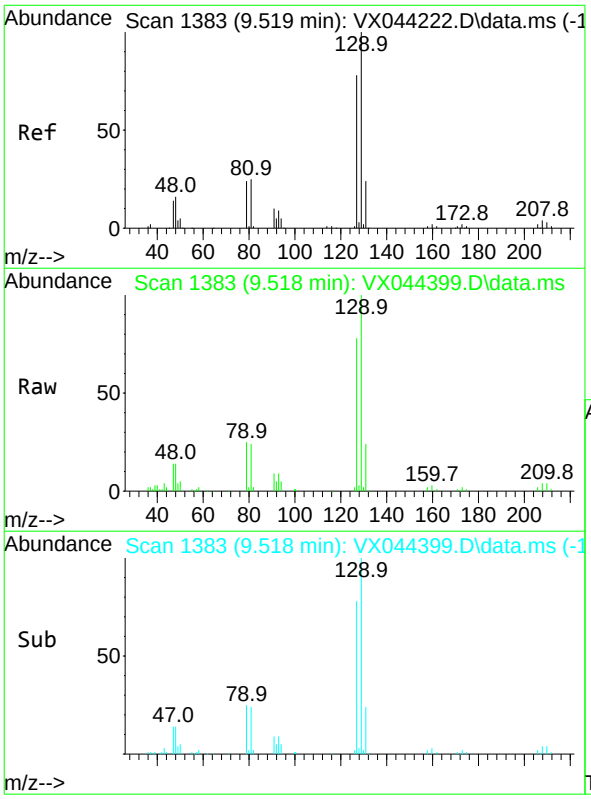
Ion	Ratio	Lower	Upper
43	100		
58	52.1	25.7	77.0

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

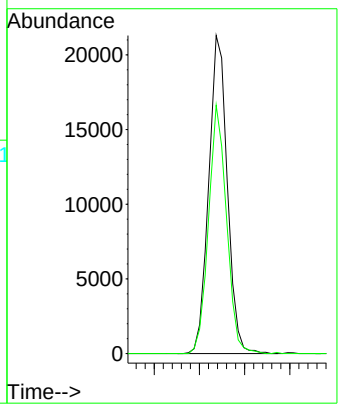


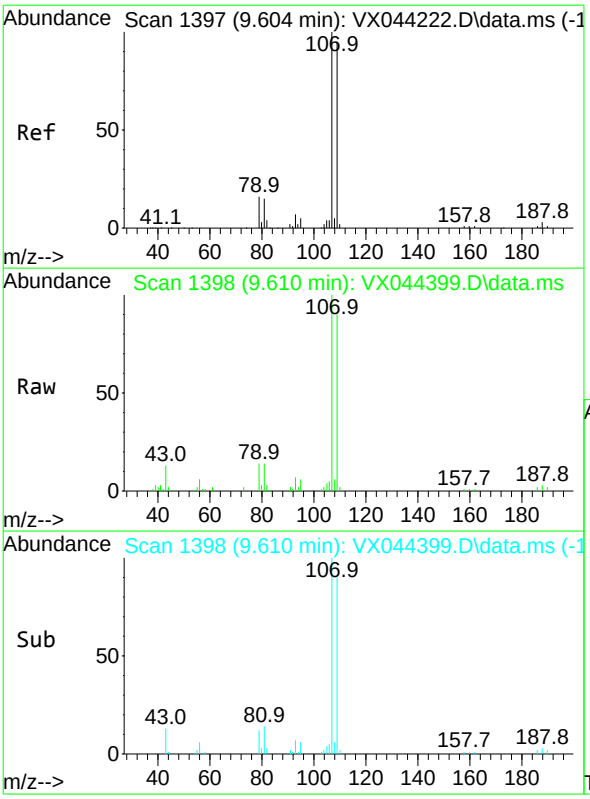


#60
Dibromochloromethane
Concen: 19.439 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:129 Resp: 30374

Ion	Ratio	Lower	Upper
129	100		
127	75.7	38.5	115.3

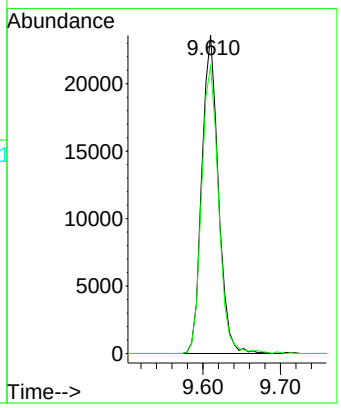




#61
1,2-Dibromoethane
Concen: 21.706 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:107 Resp: 34910

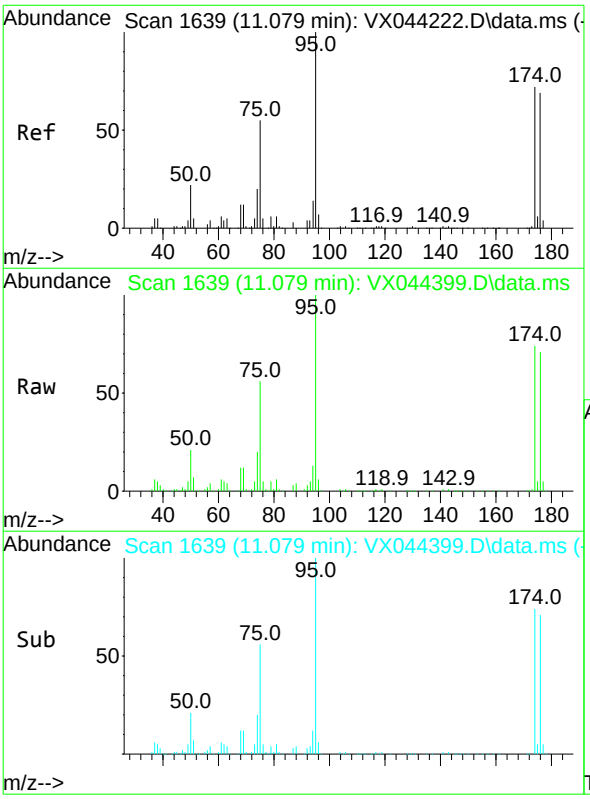
Ion	Ratio	Lower	Upper
107	100		
109	93.3	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

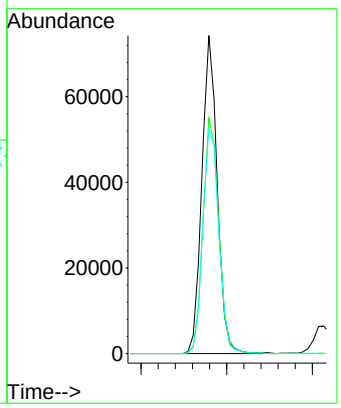
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

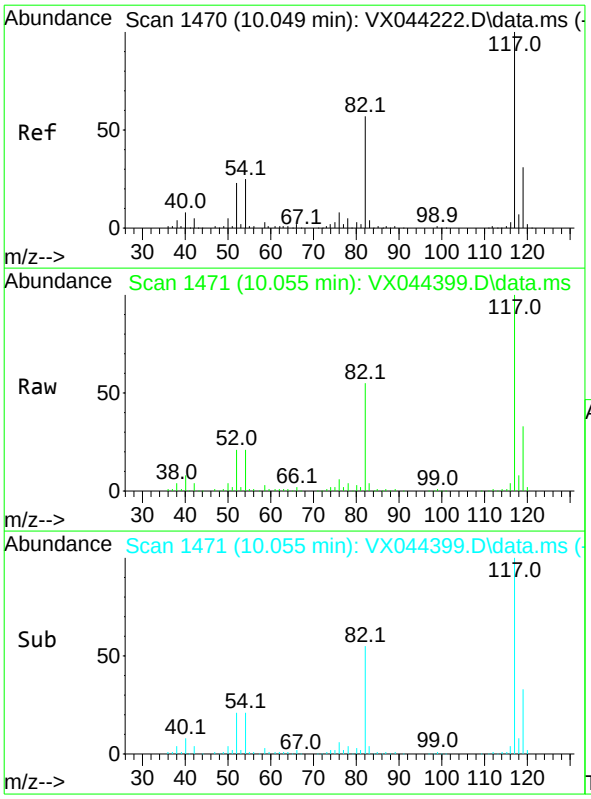


#62
4-Bromofluorobenzene
Concen: 48.522 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 95 Resp: 92307

Ion	Ratio	Lower	Upper
95	100		
174	76.1	0.0	145.8
176	75.0	0.0	137.8

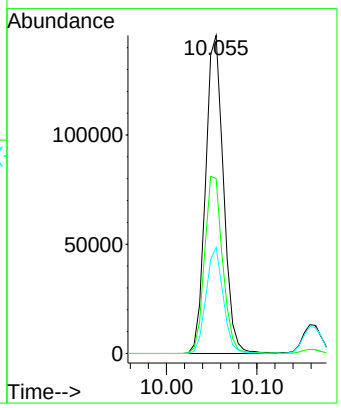




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:117 Resp: 200137

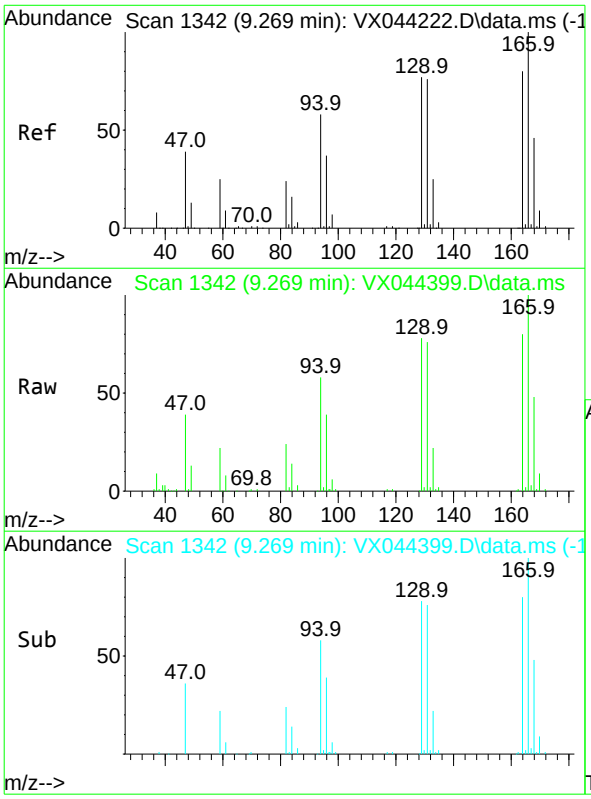
Ion	Ratio	Lower	Upper
117	100		
82	55.0	45.8	68.8
119	33.3	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

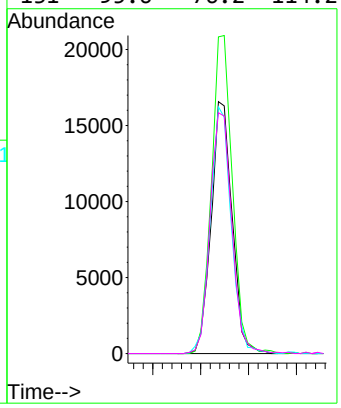
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

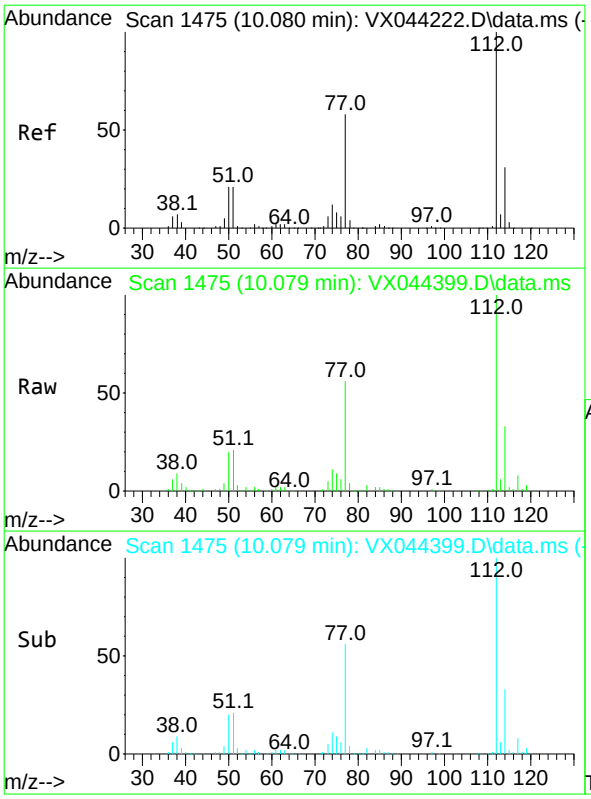


#64
Tetrachloroethene
Concen: 18.940 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:164 Resp: 25159

Ion	Ratio	Lower	Upper
164	100		
166	125.7	100.4	150.6
129	98.0	77.2	115.8
131	95.6	76.2	114.2





#65
Chlorobenzene
Concen: 19.115 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

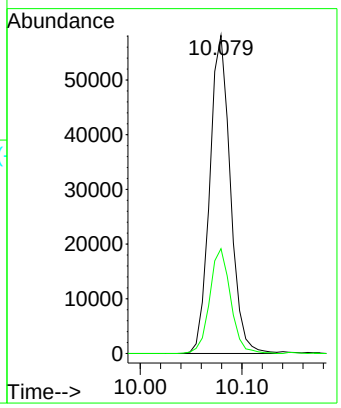
Tgt Ion:112 Resp: 81973

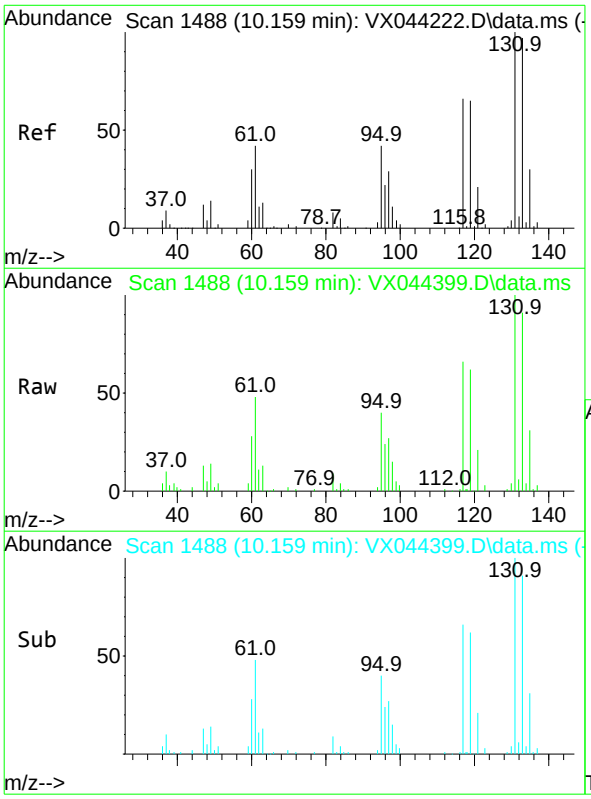
Ion	Ratio	Lower	Upper
112	100		
114	32.9	25.0	37.6

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

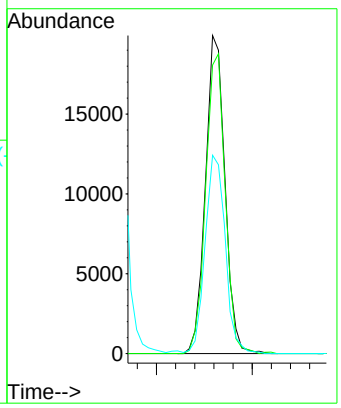


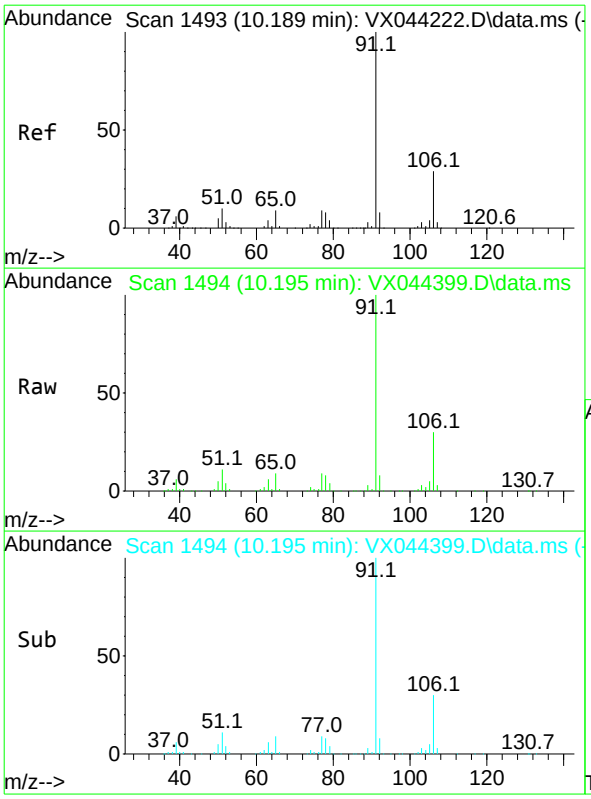


#66
1,1,1,2-Tetrachloroethane
Concen: 20.461 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:131 Resp: 28201

Ion	Ratio	Lower	Upper
131	100		
133	94.0	47.3	141.8
119	65.0	31.6	95.0





#67
Ethyl Benzene
Concen: 18.778 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

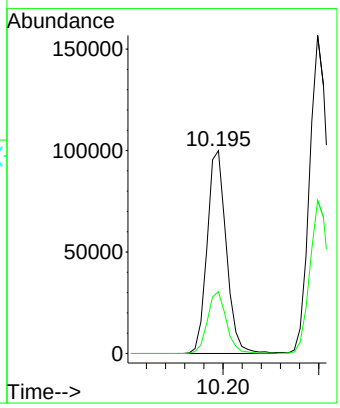
Tgt Ion: 91 Resp: 139144

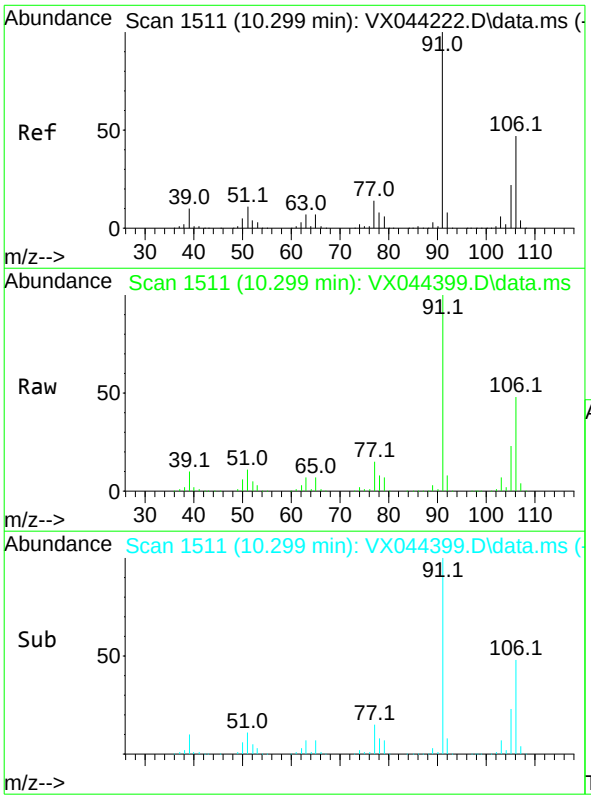
Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.5	35.3

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

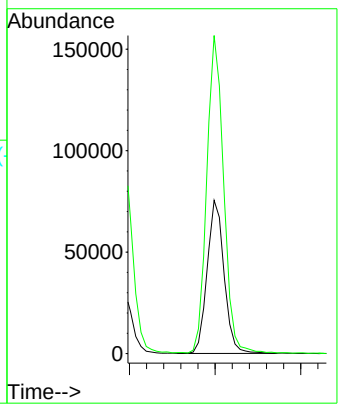


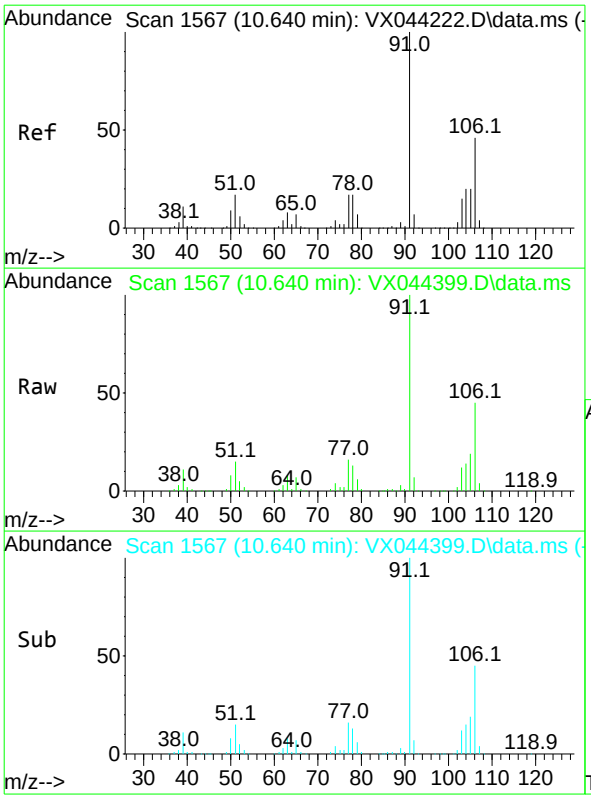


#68
m/p-Xylenes
Concen: 38.041 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:106 Resp: 103433

Ion	Ratio	Lower	Upper
106	100		
91	208.3	170.2	255.2

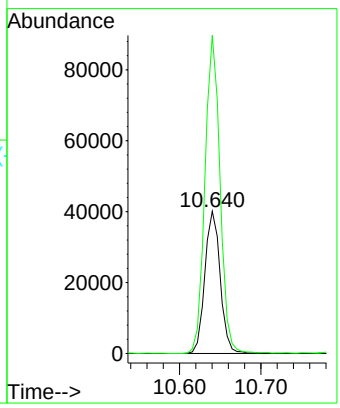




#69
o-Xylene
Concen: 19.133 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:106 Resp: 52635

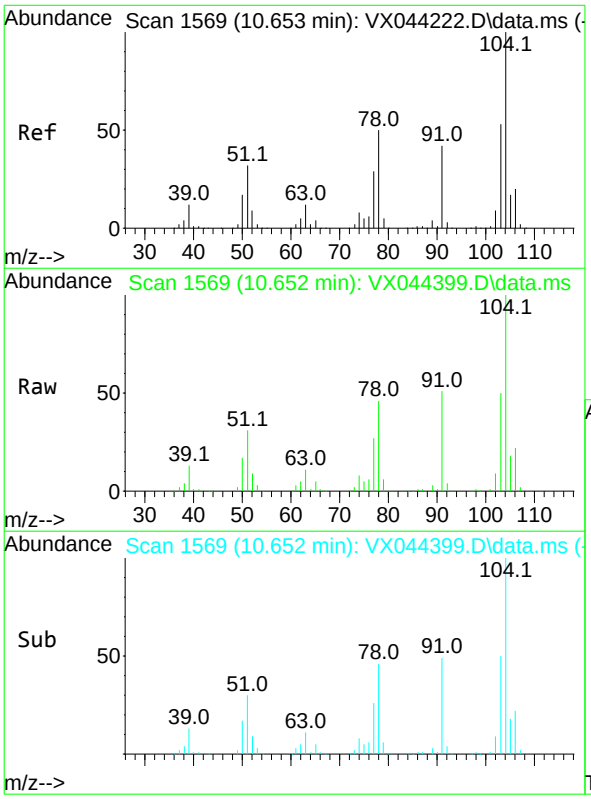
Ion	Ratio	Lower	Upper
106	100		
91	219.8	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

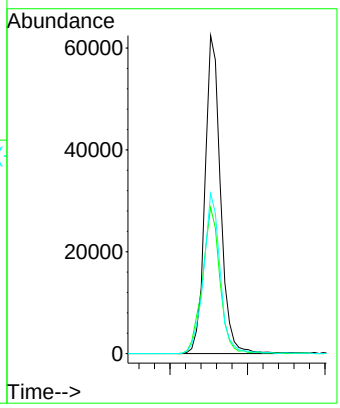
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

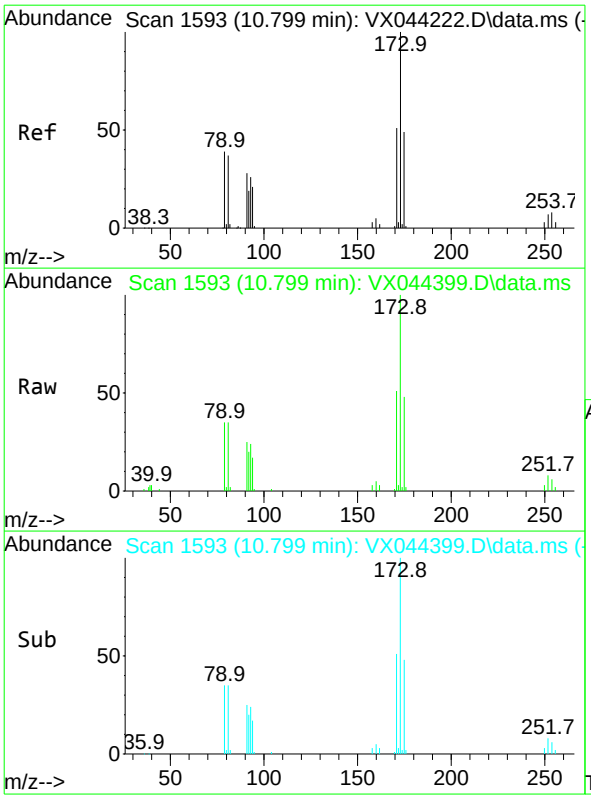


#70
Styrene
Concen: 19.740 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:104 Resp: 87058

Ion	Ratio	Lower	Upper
104	100		
78	51.7	44.6	67.0
103	54.0	45.4	68.0

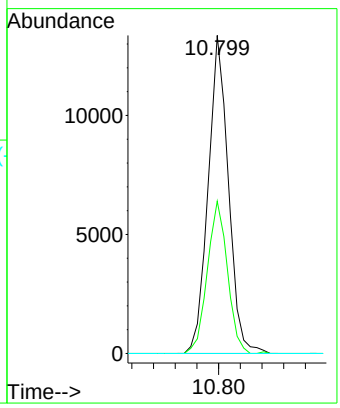




#71
Bromoform
Concen: 19.959 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:173 Resp: 17299

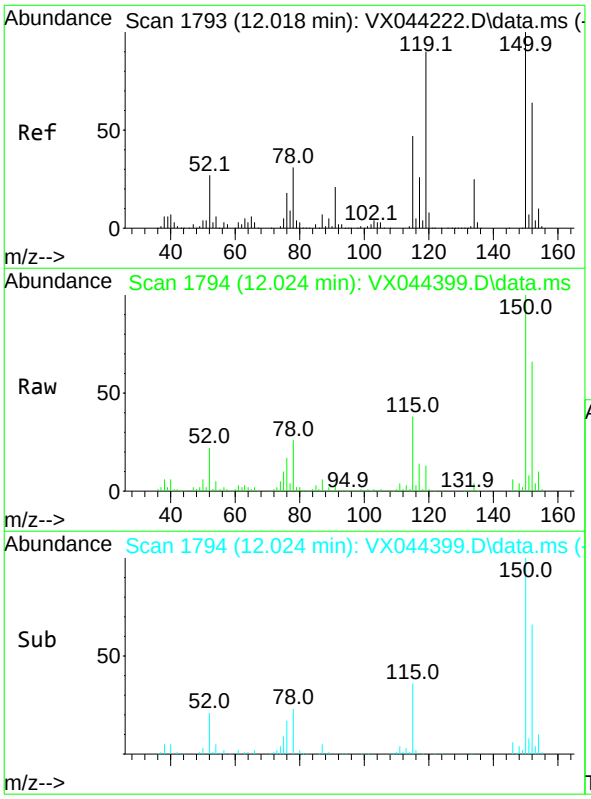
Ion	Ratio	Lower	Upper
173	100		
175	47.5	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

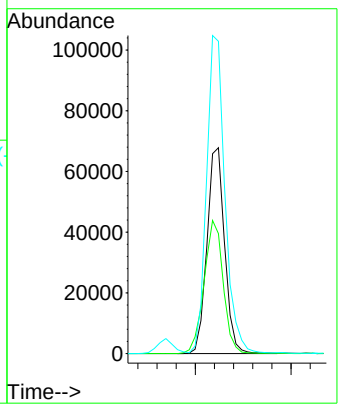
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

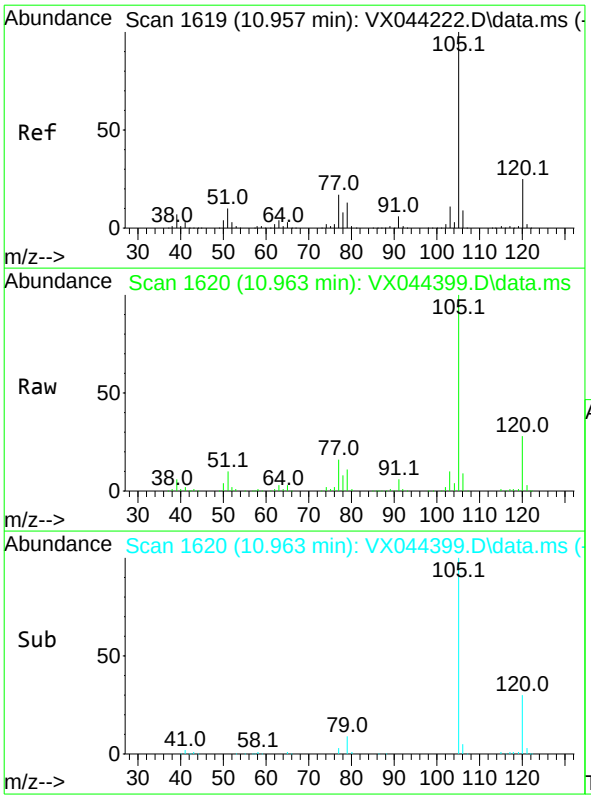


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:152 Resp: 86763

Ion	Ratio	Lower	Upper
152	100		
115	70.0	44.5	133.3
150	160.3	0.0	353.8

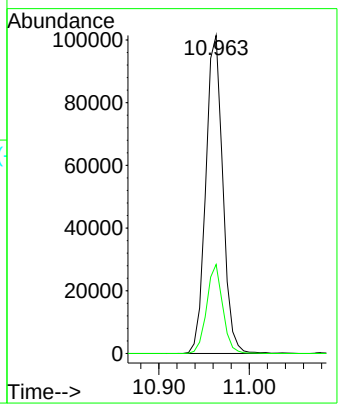




#73
Isopropylbenzene
Concen: 19.949 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:105 Resp: 132502

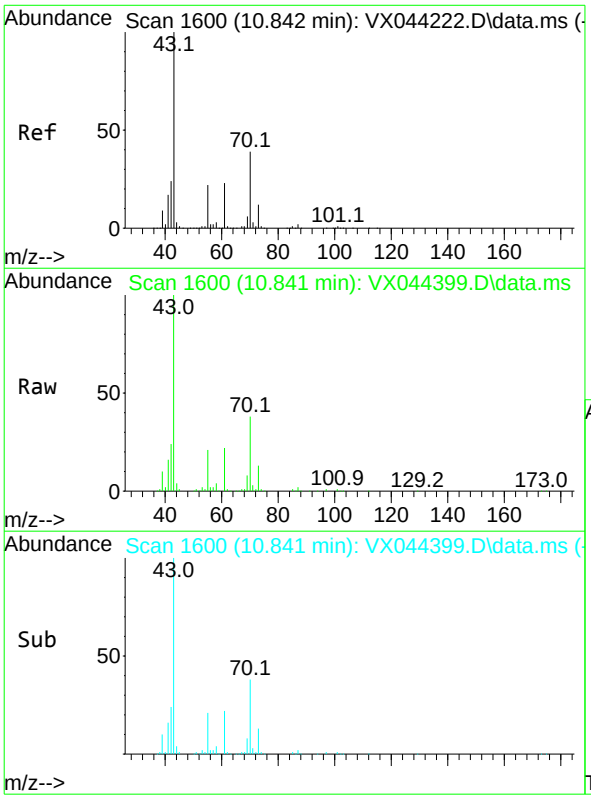
Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations APPROVED

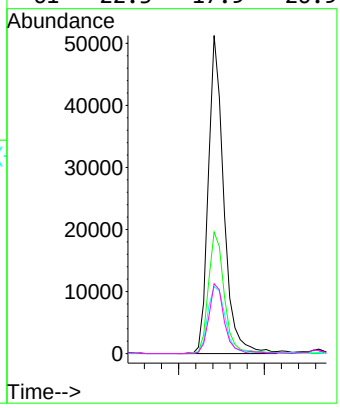
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

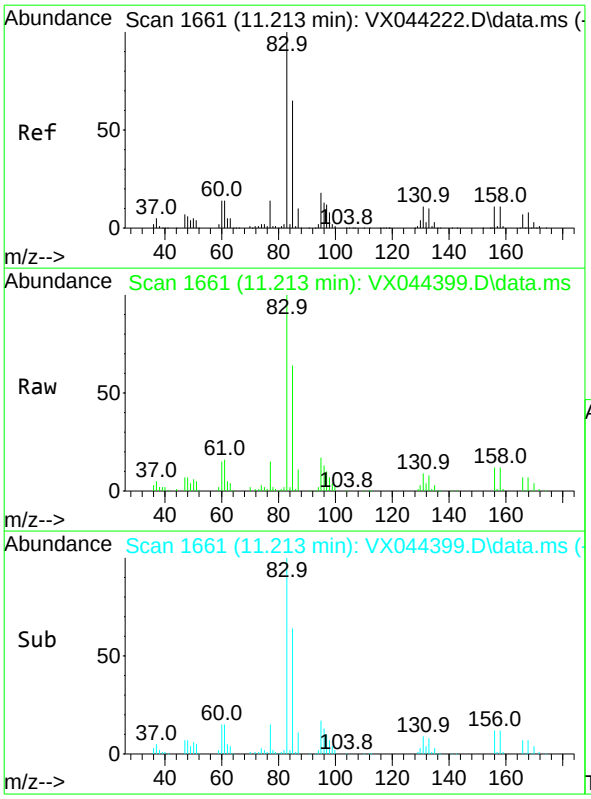


#74
N-amyl acetate
Concen: 20.909 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 43 Resp: 64183

Ion	Ratio	Lower	Upper
43	100		
70	39.5	31.9	47.9
55	24.2	17.9	26.9
61	22.3	17.9	26.9

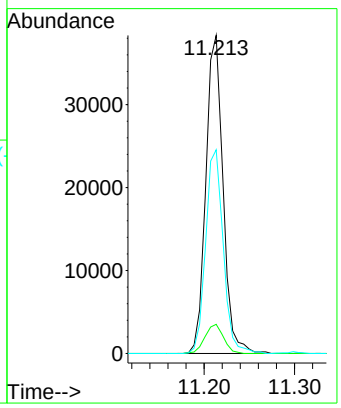




#75
1,1,2,2-Tetrachloroethane
Concen: 21.981 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 83 Resp: 50710

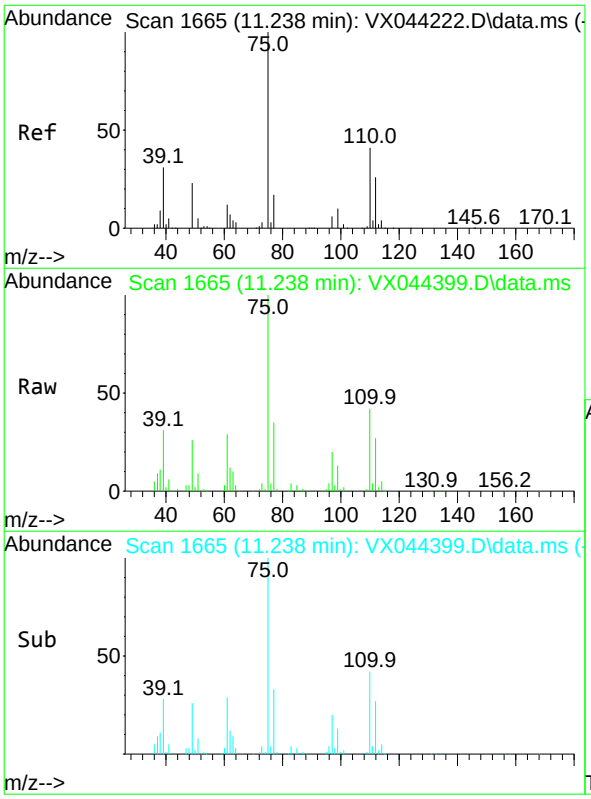
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	65.6	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations APPROVED

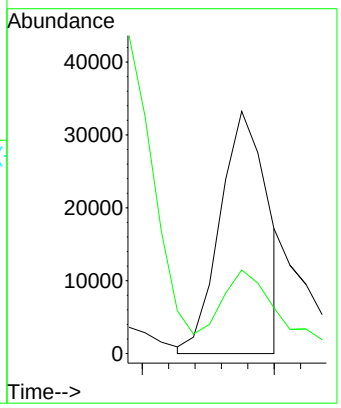
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

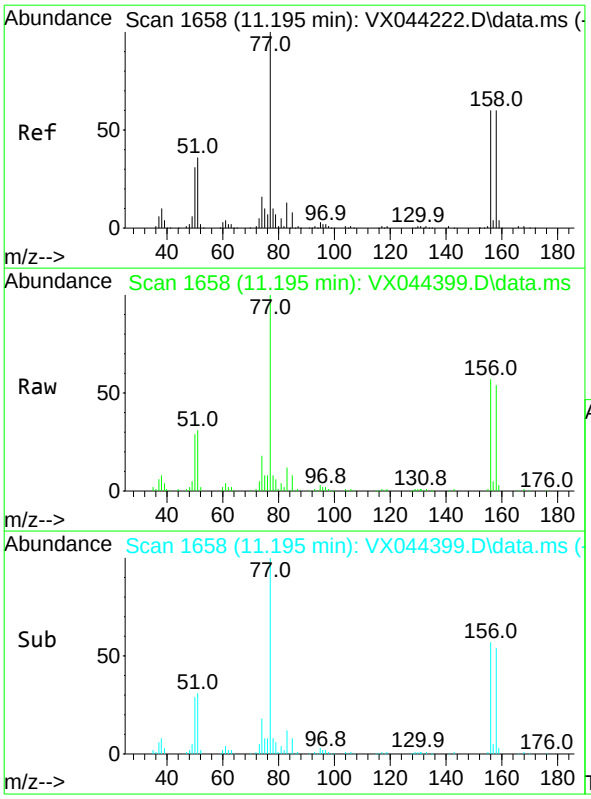


#76
1,2,3-Trichloropropane
Concen: 21.443 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 75 Resp: 41540

Ion	Ratio	Lower	Upper
75	100		
77	43.3	20.9	62.7





#77
Bromobenzene
Concen: 20.253 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

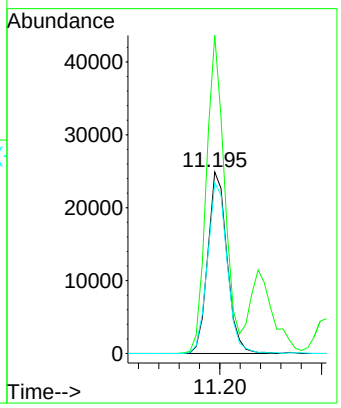
Tgt Ion:156 Resp: 32621

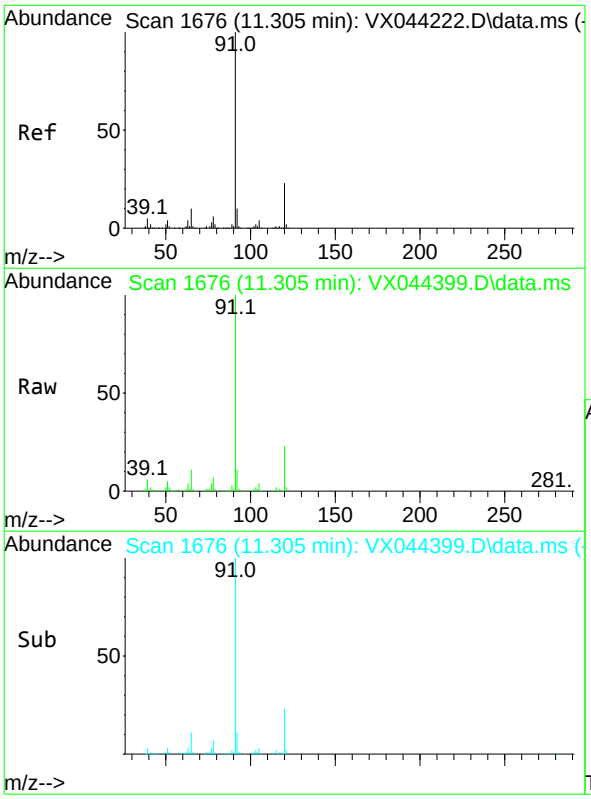
Ion	Ratio	Lower	Upper
156	100		
77	165.9	82.6	247.8
158	96.7	48.8	146.4

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

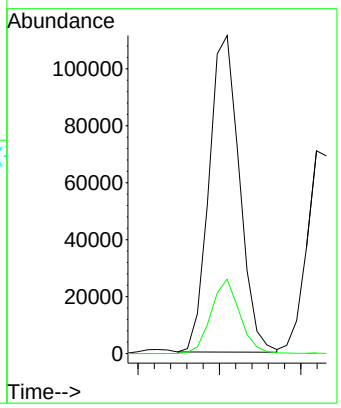


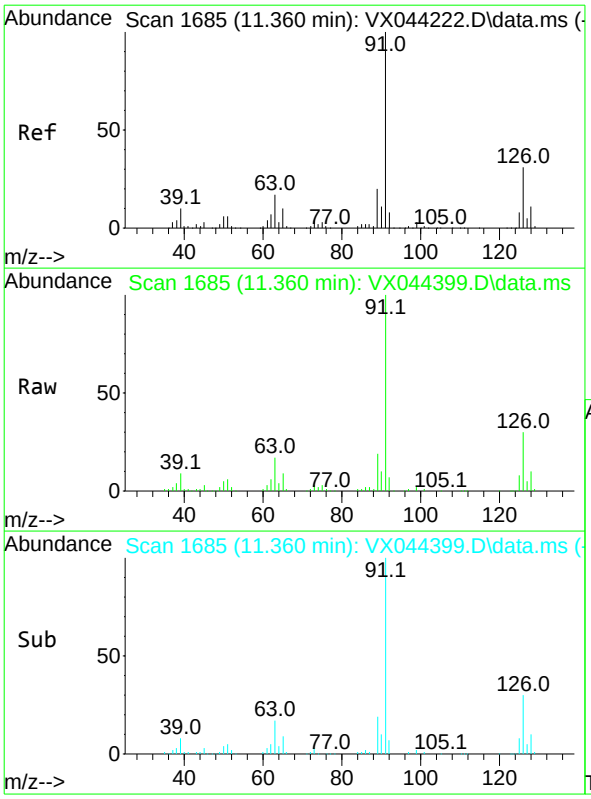


#78
n-propylbenzene
Concen: 19.640 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 91 Resp: 144182

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0





#79
2-Chlorotoluene
Concen: 19.719 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

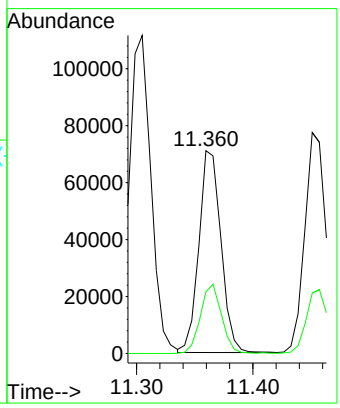
Tgt Ion: 91 Resp: 93621

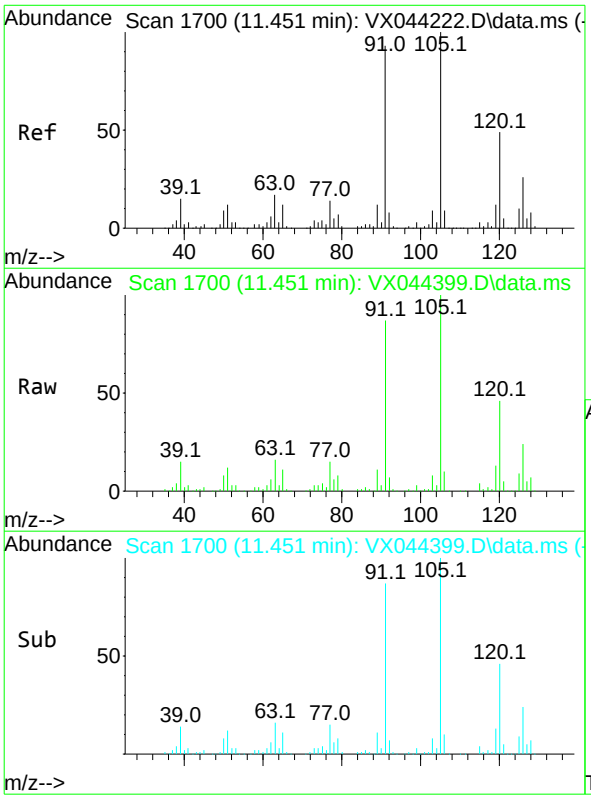
Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.4	49.1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

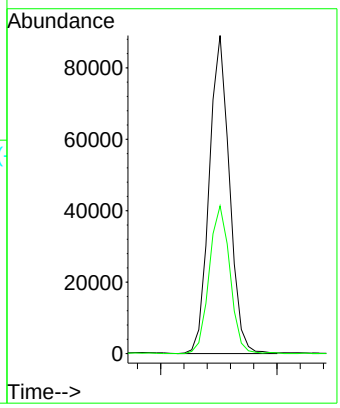


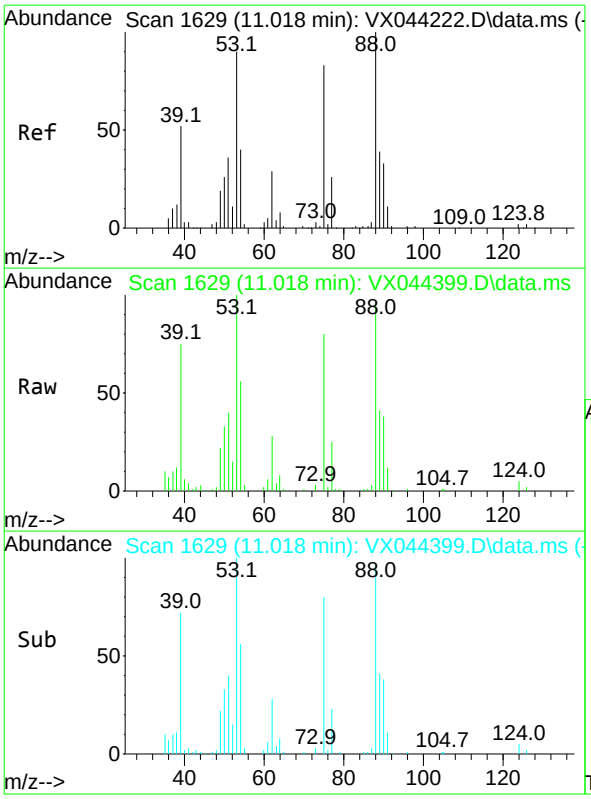


#80
1,3,5-Trimethylbenzene
Concen: 19.549 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:105 Resp: 107680

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 19.586 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

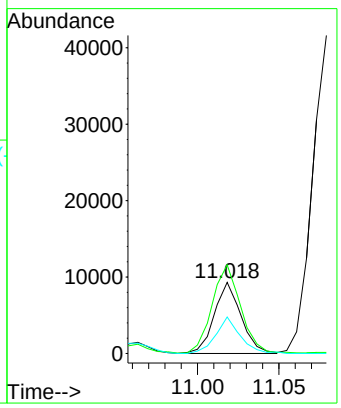
Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

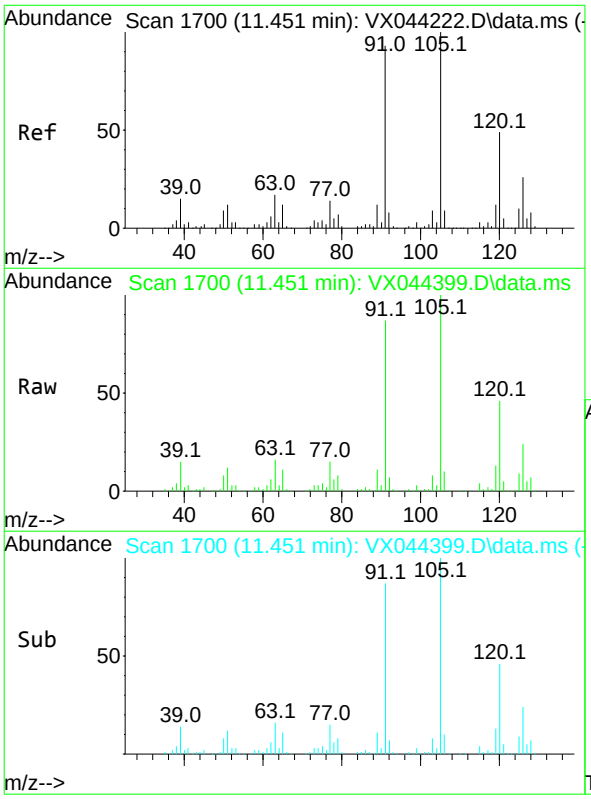
Tgt Ion: 75 Resp: 10659

Ion	Ratio	Lower	Upper
75	100		
53	131.7	93.6	140.4
89	47.0	37.3	55.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

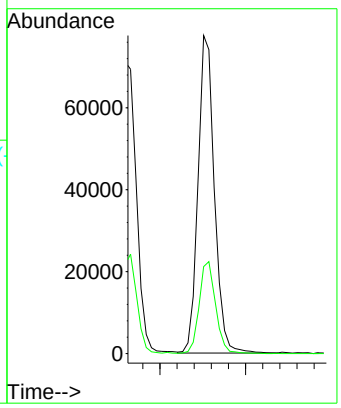


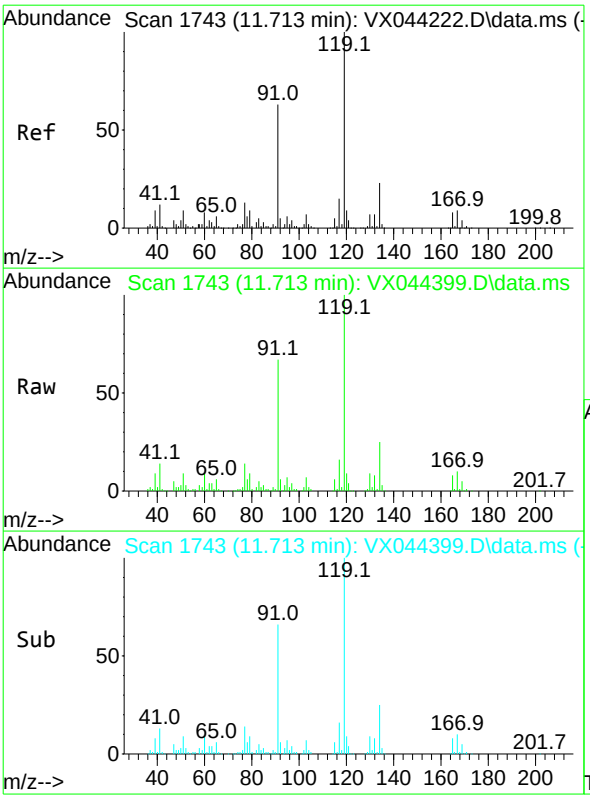


#82
4-Chlorotoluene
Concen: 19.553 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 91 Resp: 102797

Ion	Ratio	Lower	Upper
91	100		
126	29.2	14.5	43.5

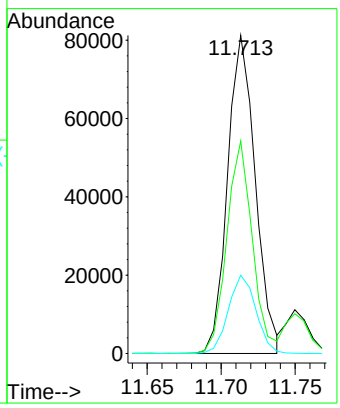




#83
tert-Butylbenzene
Concen: 19.429 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:119 Resp: 105765

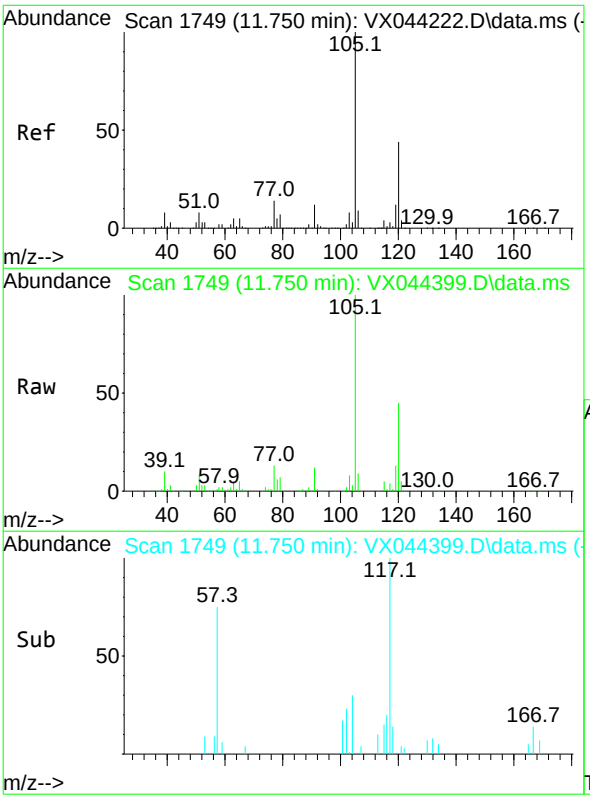
Ion	Ratio	Lower	Upper
119	100		
91	61.9	30.9	92.5
134	24.5	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

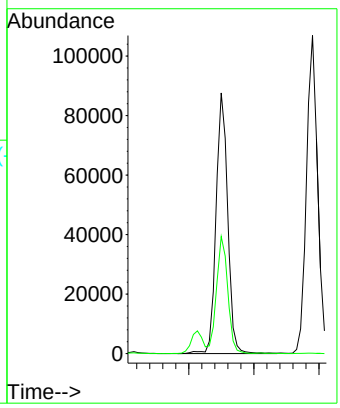
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

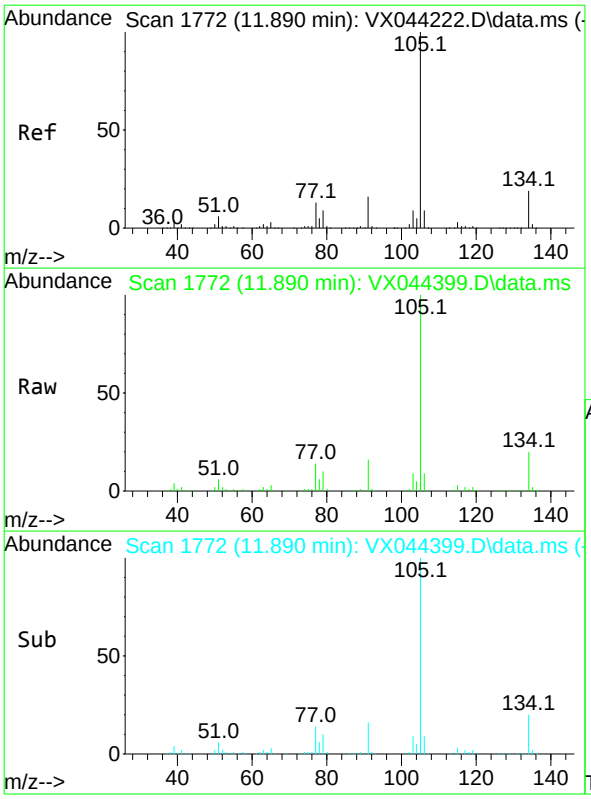


#84
1,2,4-Trimethylbenzene
Concen: 20.064 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:105 Resp: 108536

Ion	Ratio	Lower	Upper
105	100		
120	43.7	21.7	65.1

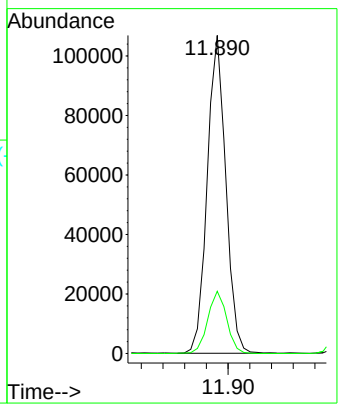




#85
sec-Butylbenzene
Concen: 19.191 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:105 Resp: 126820

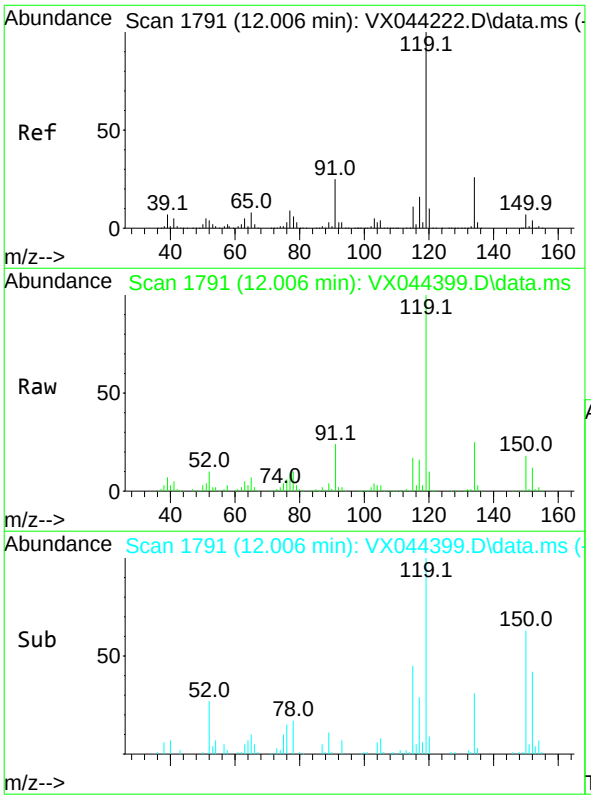
Ion	Ratio	Lower	Upper
105	100		
134	20.0	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

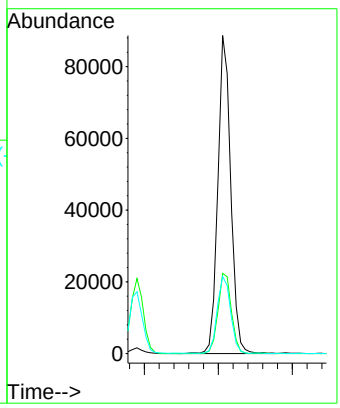
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

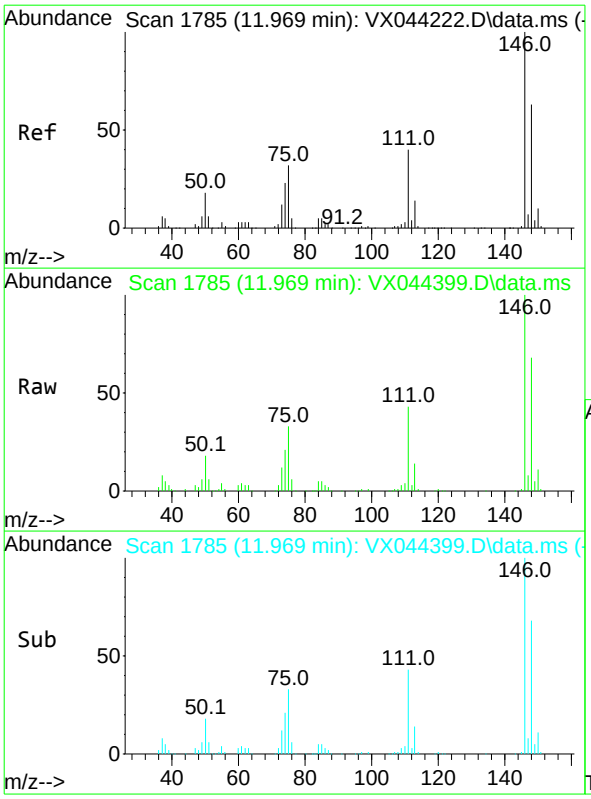


#86
p-Isopropyltoluene
Concen: 19.498 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:119 Resp: 107246

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.8	38.4
91	25.0	13.0	39.0

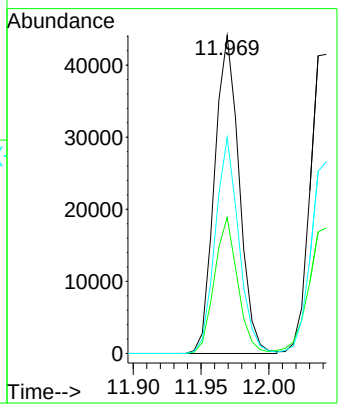




#87
1,3-Dichlorobenzene
Concen: 19.801 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:146 Resp: 55710

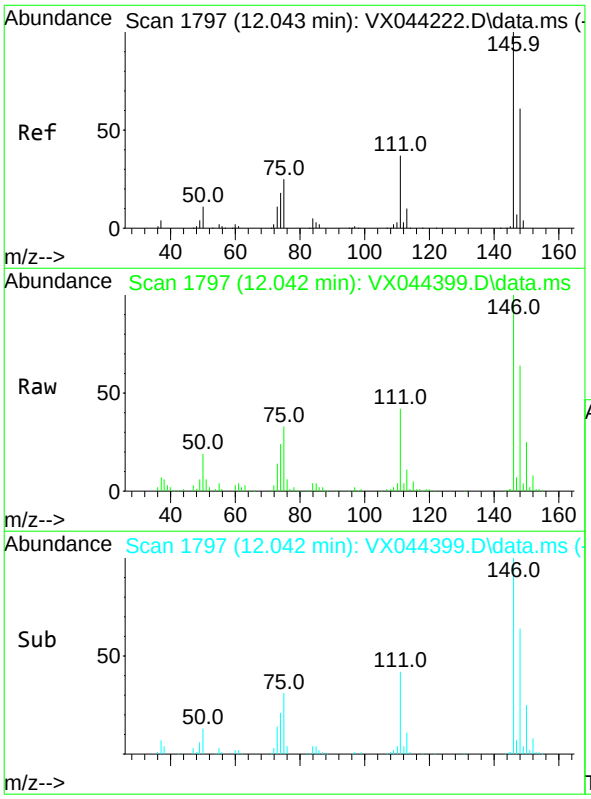
Ion	Ratio	Lower	Upper
146	100		
111	40.5	21.4	64.2
148	65.1	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

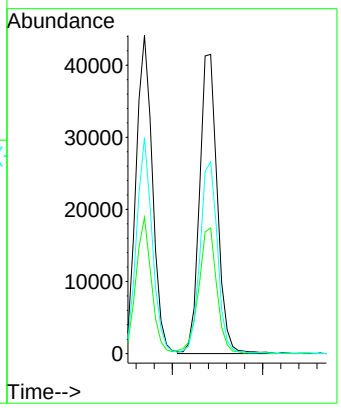
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

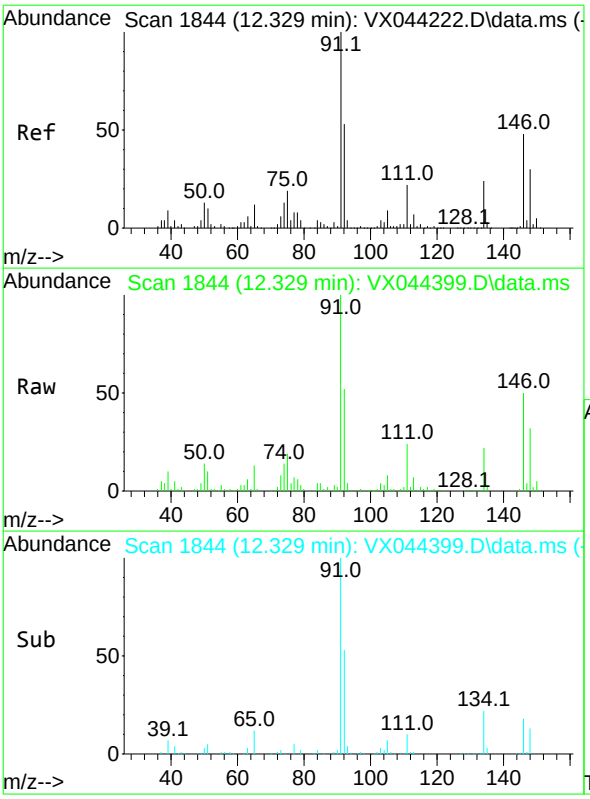


#88
1,4-Dichlorobenzene
Concen: 19.579 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:146 Resp: 56626

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.0	63.0
148	62.7	32.3	96.8





#89
n-Butylbenzene
Concen: 18.548 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

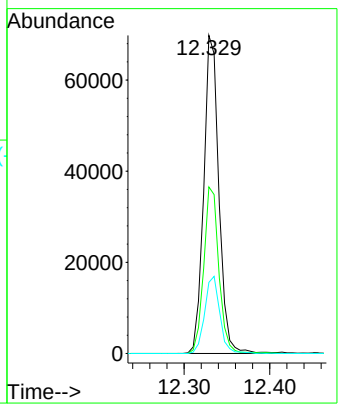
Tgt Ion: 91 Resp: 85786

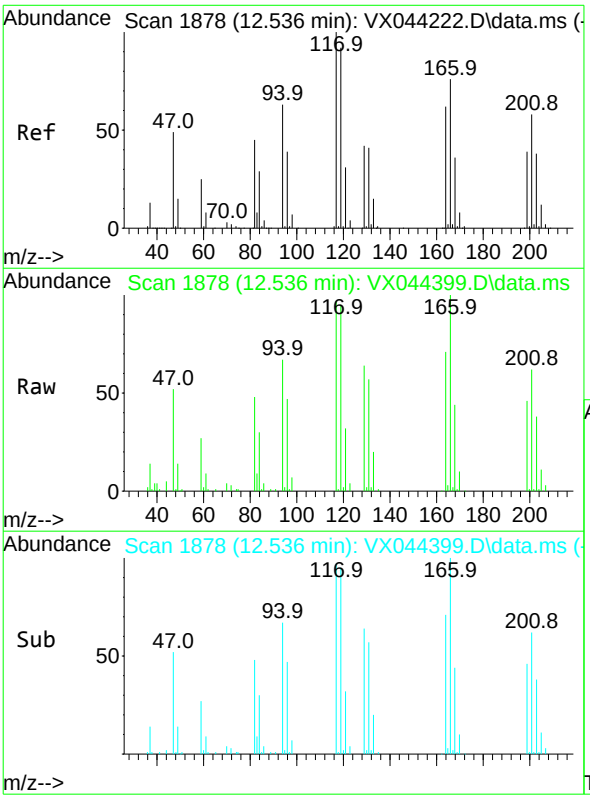
Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.6	79.7
134	24.2	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

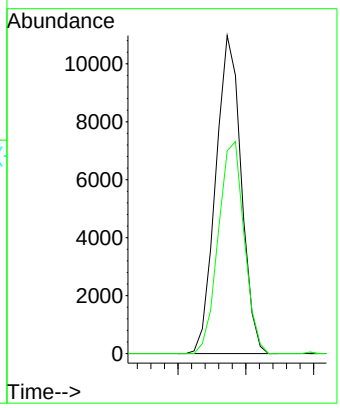


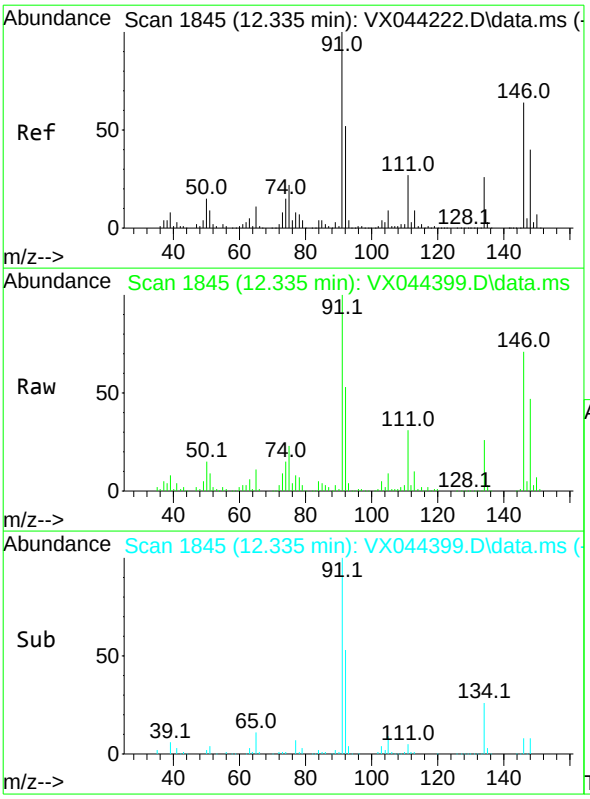


#90
Hexachloroethane
Concen: 17.859 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:117 Resp: 14339

Ion	Ratio	Lower	Upper
117	100		
201	67.7	31.4	94.2





#91
1,2-Dichlorobenzene
Concen: 20.072 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

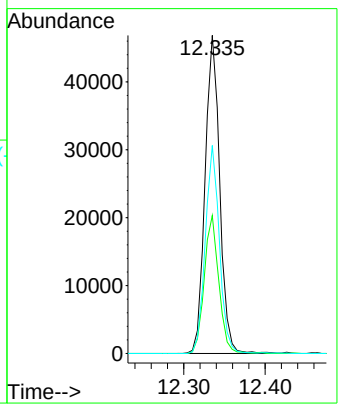
Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

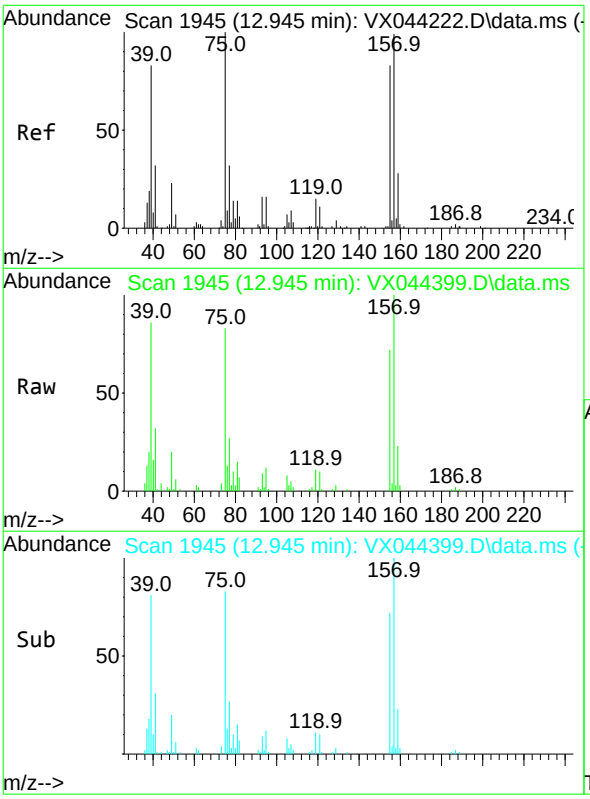
Tgt Ion:146 Resp: 58637

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.4	64.3
148	63.1	31.6	95.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

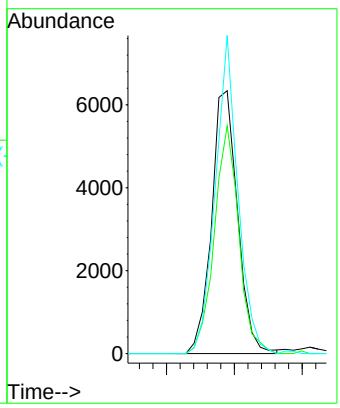


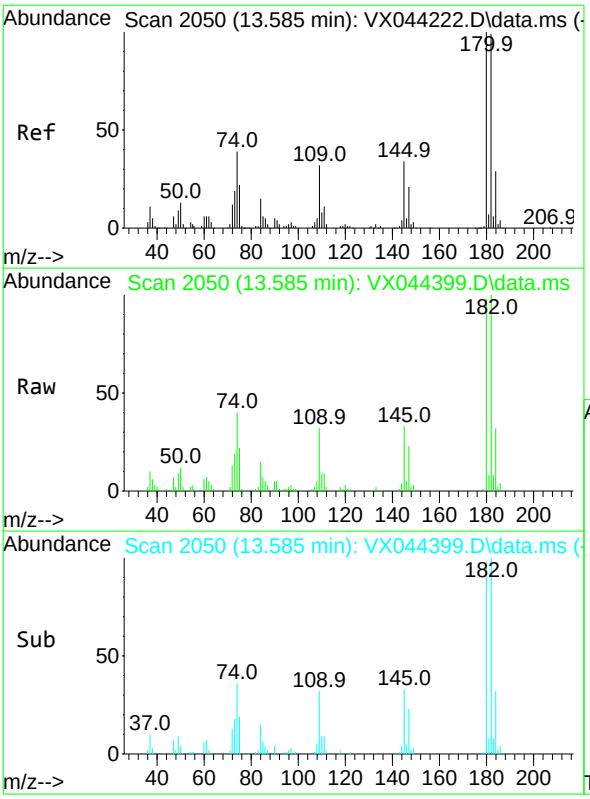


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.864 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 75 Resp: 8448

Ion	Ratio	Lower	Upper
75	100		
155	81.2	38.1	114.3
157	105.4	47.2	141.6

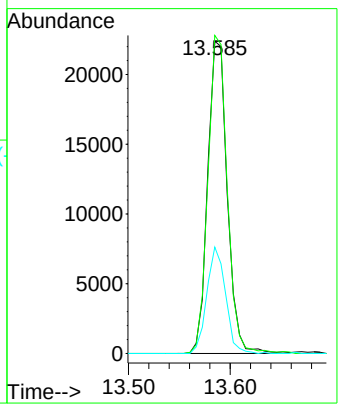




#93
1,2,4-Trichlorobenzene
Concen: 18.663 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:180 Resp: 29891

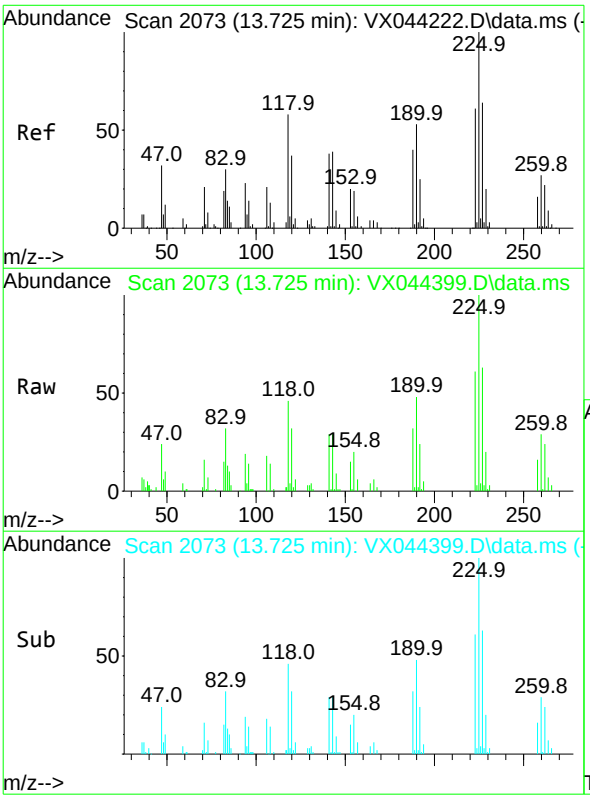
Ion	Ratio	Lower	Upper
180	100		
182	100.7	48.0	144.2
145	32.7	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

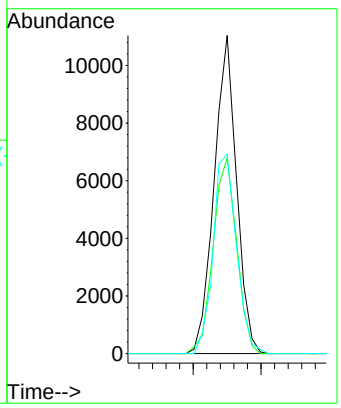
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

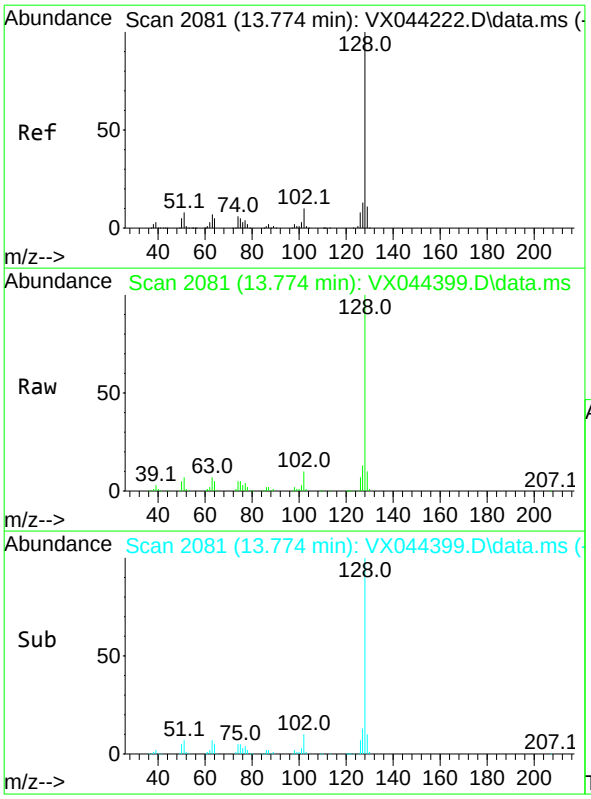


#94
Hexachlorobutadiene
Concen: 19.666 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:225 Resp: 12669

Ion	Ratio	Lower	Upper
225	100		
223	64.7	30.8	92.4
227	65.3	32.1	96.3





#95
Naphthalene
Concen: 19.638 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

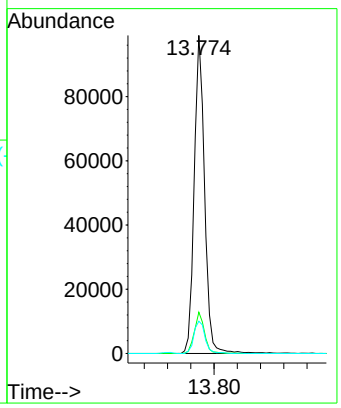
Tgt Ion:128 Resp: 122767

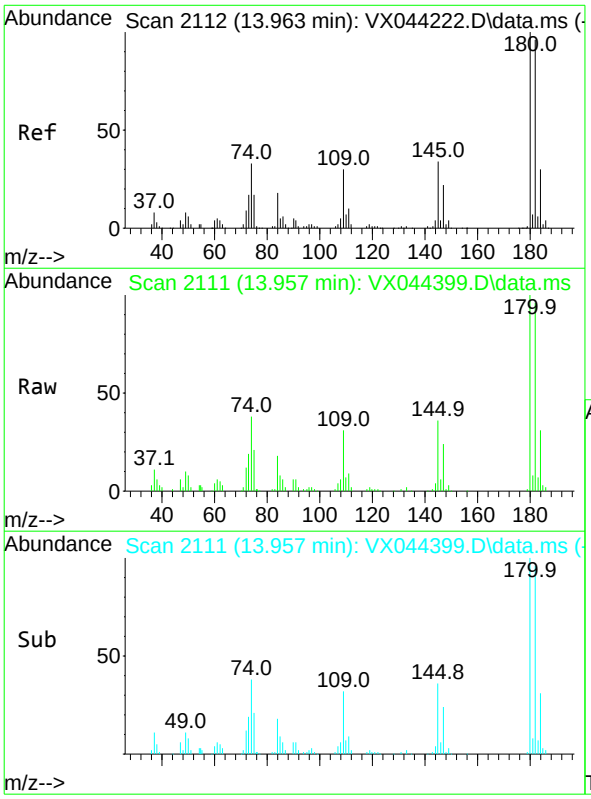
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	11.0	9.0	13.4

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

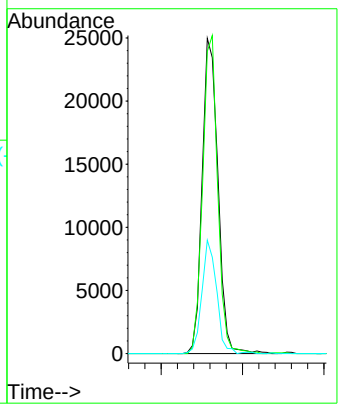




#96
1,2,3-Trichlorobenzene
Concen: 19.819 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:180 Resp: 33666

Ion	Ratio	Lower	Upper
180	100		
182	95.7	48.0	144.0
145	33.3	17.7	53.1



Raw Data: **VX044441.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1220WBS01	SDG No.:	P5317
Lab Sample ID:	VX1220WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044441.D	1		12/20/24 10:46	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	18.5		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	18.7		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.9		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	18.8		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.8		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	15.3		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.9		0.26	0.75	1.00	ug/L
67-64-1	Acetone	75.7		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	16.4		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.6		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	17.7		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.9		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	17.6		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	83.3		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.0		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	15.8		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	17.7		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.5		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.3		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.4		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.2		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.1		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	92.4		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.5		0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1220WBS01	SDG No.:	P5317
Lab Sample ID:	VX1220WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044441.D	1		12/20/24 10:46	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	17.9		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.2		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.8		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	90.4		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	18.8		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.2		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.8		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	39.8		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.8		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.8		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	19.3		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.9		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.6		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.1		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.0		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.8		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.5		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.5		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.4		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.7		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	48.7		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	147000	5.55				
540-36-3	1,4-Difluorobenzene	249000	6.757				
3114-55-4	Chlorobenzene-d5	212000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	96900	12.018				

Raw Data: **VX044441.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1220WBS01	SDG No.:	P5317
Lab Sample ID:	VX1220WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044441.D	1		12/20/24 10:46	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044441.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	146515	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	249173	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	212384	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	96885	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	109691	42.700	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	85.400%		
35) Dibromofluoromethane	5.379	113	83769	48.541	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.080%		
50) Toluene-d8	8.647	98	283358	48.669	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.340%		
62) 4-Bromofluorobenzene	11.079	95	94485	46.443	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	92.880%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	41893	18.492	ug/l	95
3) Chloromethane	1.294	50	40546	18.715	ug/l	99
4) Vinyl Chloride	1.374	62	40370	17.887	ug/l	97
5) Bromomethane	1.599	94	30109	18.804	ug/l	96
6) Chloroethane	1.666	64	27776	19.764	ug/l	99
7) Trichlorofluoromethane	1.874	101	67604	15.300	ug/l	99
8) Diethyl Ether	2.136	74	26079	17.291	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	33030	18.474	ug/l	94
10) Methyl Iodide	2.447	142	45795	19.434	ug/l	96
11) Tert butyl alcohol	2.989	59	33237	91.803	ug/l	96
12) 1,1-Dichloroethene	2.312	96	30995	18.873	ug/l	96
13) Acrolein	2.239	56	44044	84.041	ug/l	96
14) Allyl chloride	2.660	41	49108	17.953	ug/l	96
15) Acrylonitrile	3.068	53	90872	90.610	ug/l	99
16) Acetone	2.386	43	79327	75.745	ug/l	91
17) Carbon Disulfide	2.501	76	51100	16.369	ug/l	100
18) Methyl Acetate	2.703	43	47831	17.713	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	112975	17.629	ug/l	97
20) Methylene Chloride	2.782	84	37654	19.142	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	32618	18.688	ug/l	96
22) Diisopropyl ether	3.763	45	110674	17.968	ug/l	97
23) Vinyl Acetate	3.721	43	456052	91.069	ug/l	99
24) 1,1-Dichloroethane	3.605	63	64973	18.923	ug/l	98
25) 2-Butanone	4.562	43	124008	83.289	ug/l	98
26) 2,2-Dichloropropane	4.471	77	51269	18.380	ug/l	98
27) cis-1,2-Dichloroethene	4.489	96	39842	17.974	ug/l	97
28) Bromochloromethane	4.891	49	26535	15.760	ug/l	97
29) Tetrahydrofuran	5.007	42	81181	84.947	ug/l	99
30) Chloroform	5.092	83	68227	17.686	ug/l	99
31) Cyclohexane	5.470	56	48875	17.628	ug/l	93
32) 1,1,1-Trichloroethane	5.373	97	55907	17.459	ug/l	98
36) 1,1-Dichloropropene	5.690	75	41416	18.566	ug/l	97
37) Ethyl Acetate	4.721	43	48014	17.412	ug/l	96
38) Carbon Tetrachloride	5.672	117	45386	18.898	ug/l	93
39) Methylcyclohexane	7.373	83	51554	19.332	ug/l	98
40) Benzene	6.031	78	137885	20.358	ug/l	99

Sample Results: **VX044441.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	26859	18.343 ug/l	98
42) 1,2-Dichloroethane	6.086	62	53588	19.207 ug/l	97
43) Isopropyl Acetate	6.342	43	79207	18.378 ug/l	99
44) Trichloroethene	7.123	130	33615	19.902 ug/l	88
45) 1,2-Dichloropropane	7.427	63	33011	19.077 ug/l	97
46) Dibromomethane	7.580	93	26495	19.737 ug/l	95
47) Bromodichloromethane	7.818	83	44357	19.132 ug/l	98
48) Methyl methacrylate	7.690	41	36154	17.281 ug/l	94
49) 1,4-Dioxane	7.671	88	10158	292.846 ug/l #	79
51) 4-Methyl-2-Pentanone	8.574	43	255984	92.373 ug/l	99
52) Toluene	8.714	92	82957	19.504 ug/l	97
53) t-1,3-Dichloropropene	8.976	75	41417	17.860 ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	48359	19.157 ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	35148	20.801 ug/l	96
56) Ethyl methacrylate	9.116	69	48642	18.235 ug/l	100
57) 1,3-Dichloropropane	9.305	76	56644	19.260 ug/l	97
58) 2-Chloroethyl Vinyl ether	8.238	63	109022	81.033 ug/l	99
59) 2-Hexanone	9.433	43	181241	90.356 ug/l	99
60) Dibromochloromethane	9.518	129	31411	18.848 ug/l	99
61) 1,2-Dibromoethane	9.610	107	34801	20.234 ug/l	100
64) Tetrachloroethene	9.269	164	29267	20.762 ug/l	96
65) Chlorobenzene	10.079	112	90589	19.906 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	30193	20.643 ug/l	99
67) Ethyl Benzene	10.189	91	151105	19.217 ug/l	100
68) m/p-Xylenes	10.299	106	114910	39.825 ug/l	97
69) o-Xylene	10.640	106	57794	19.797 ug/l	95
70) Styrene	10.652	104	92784	19.825 ug/l	96
71) Bromoform	10.799	173	17659	19.275 ug/l #	97
73) Isopropylbenzene	10.963	105	147393	19.872 ug/l	99
74) N-amyl acetate	10.841	43	61829	18.038 ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.213	83	50416	19.570 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	40633m	18.784 ug/l	
77) Bromobenzene	11.195	156	36233	20.145 ug/l	95
78) n-propylbenzene	11.299	91	162028	19.765 ug/l	98
79) 2-Chlorotoluene	11.360	91	102209	19.279 ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	121225	19.709 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	11072	18.609 ug/l	91
82) 4-Chlorotoluene	11.451	91	112263	19.122 ug/l	97
83) tert-Butylbenzene	11.713	119	120518	19.827 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	121322	20.085 ug/l	98
85) sec-Butylbenzene	11.890	105	143732	19.477 ug/l	100
86) p-Isopropyltoluene	12.006	119	120356	19.596 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	63016	20.058 ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	64444	19.954 ug/l	98
89) n-Butylbenzene	12.329	91	94402	18.279 ug/l	97
90) Hexachloroethane	12.536	117	16712	18.640 ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	64584	19.798 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8263	16.523 ug/l	90
93) 1,2,4-Trichlorobenzene	13.585	180	34820	19.470 ug/l	97
94) Hexachlorobutadiene	13.725	225	15232	21.174 ug/l	99
95) Naphthalene	13.774	128	124472	17.830 ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	36757	19.378 ug/l	98

Sample Results: **VX044441.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

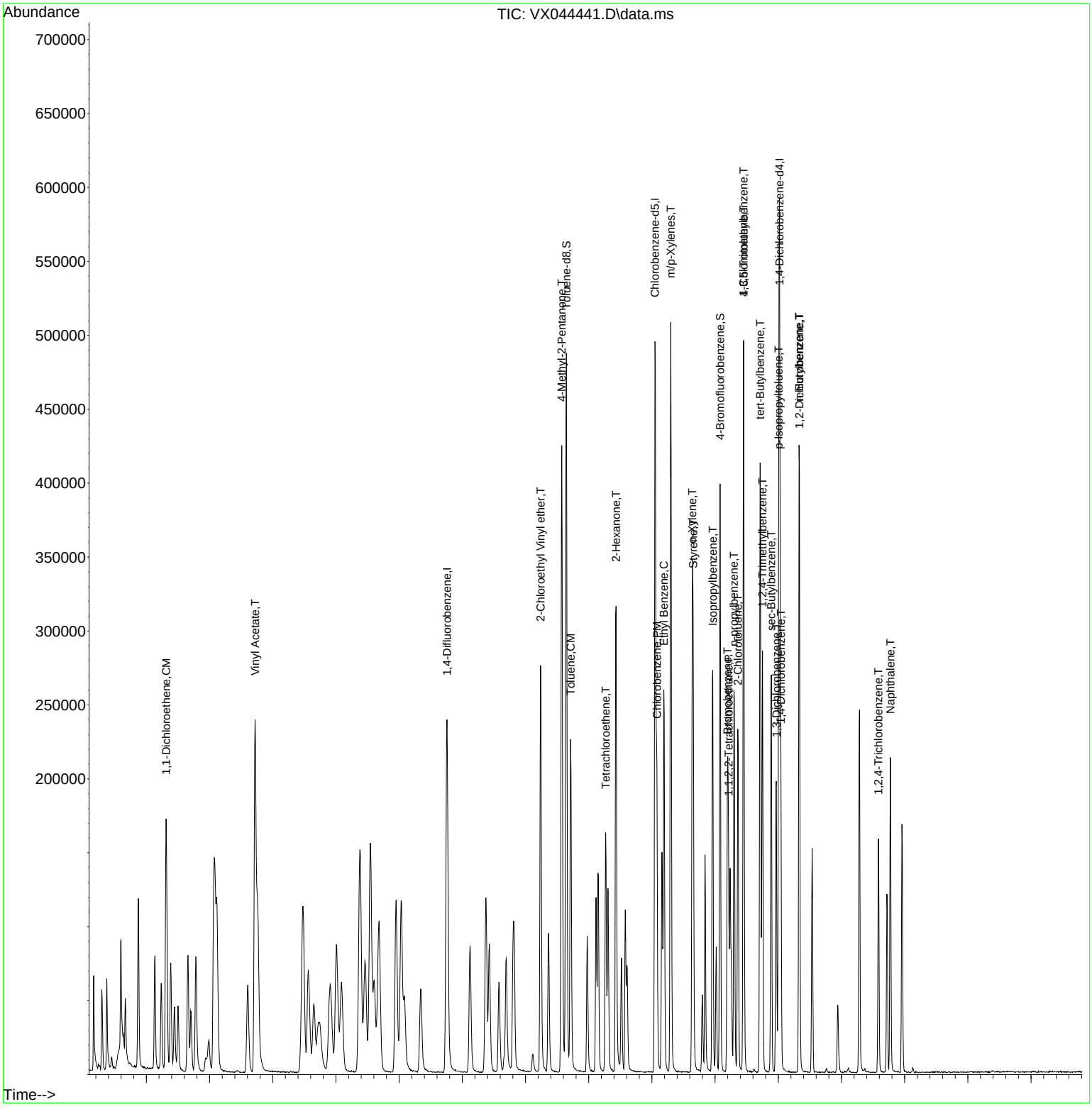
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

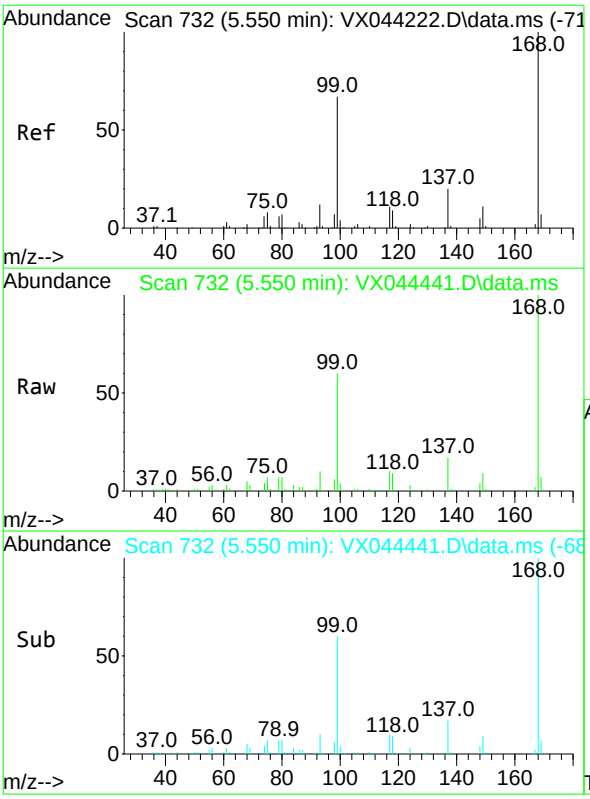
Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

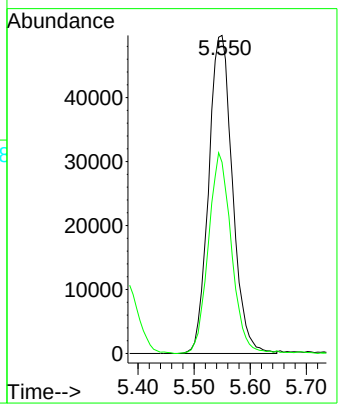




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:168 Resp: 146515

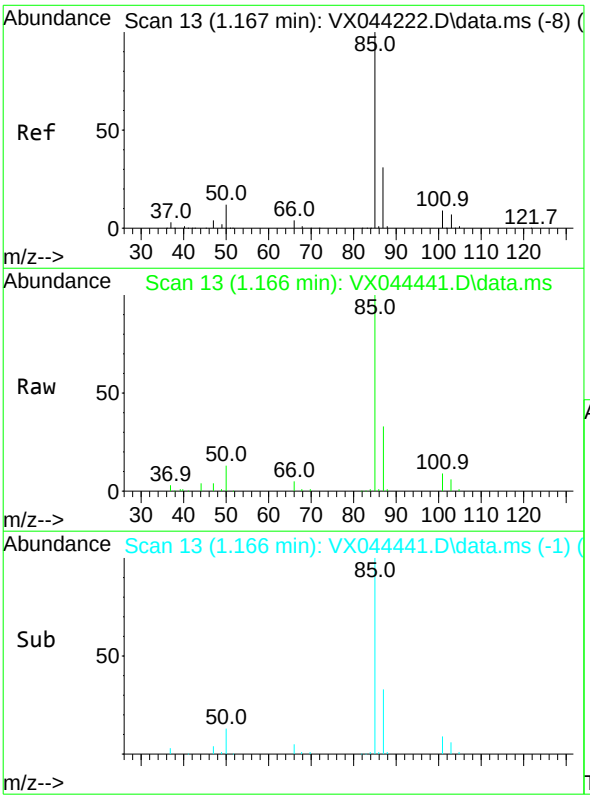
Ion	Ratio	Lower	Upper
168	100		
99	60.1	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

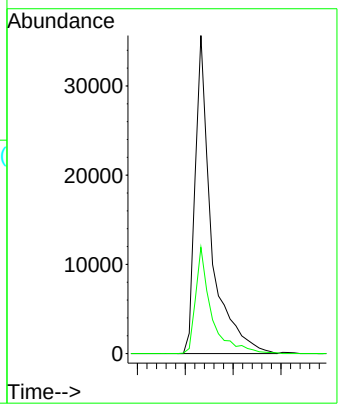
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

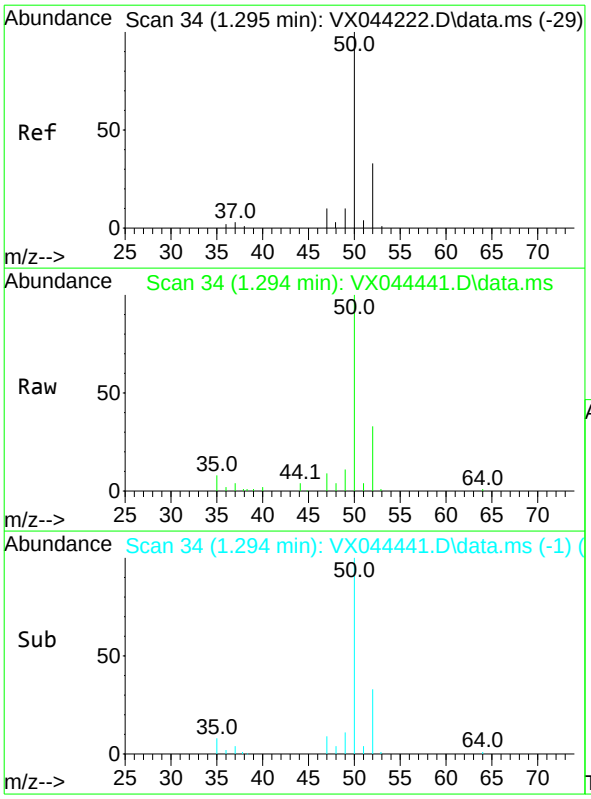


#2
Dichlorodifluoromethane
Concen: 18.492 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 85 Resp: 41893

Ion	Ratio	Lower	Upper
85	100		
87	33.4	15.4	46.4

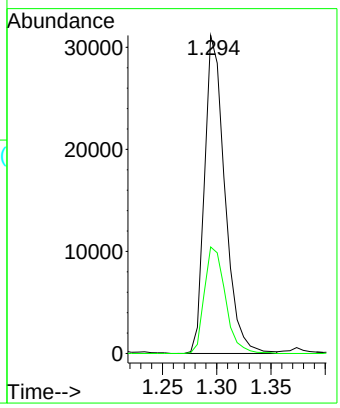




#3
Chloromethane
Concen: 18.715 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 50 Resp: 40546

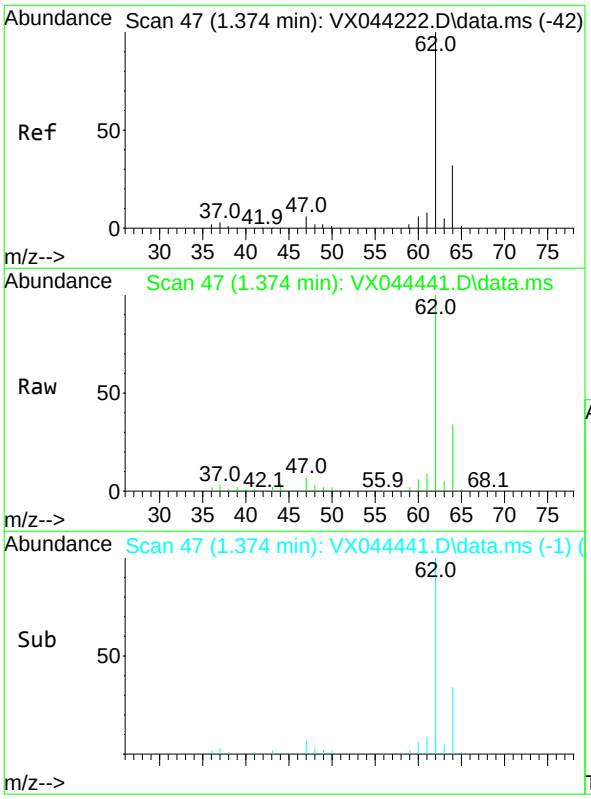
Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

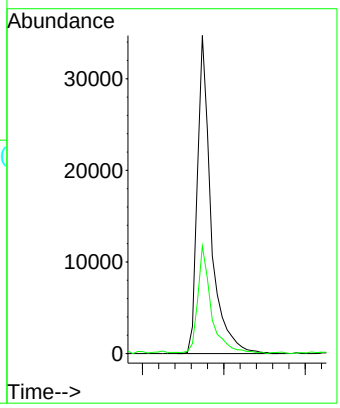
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

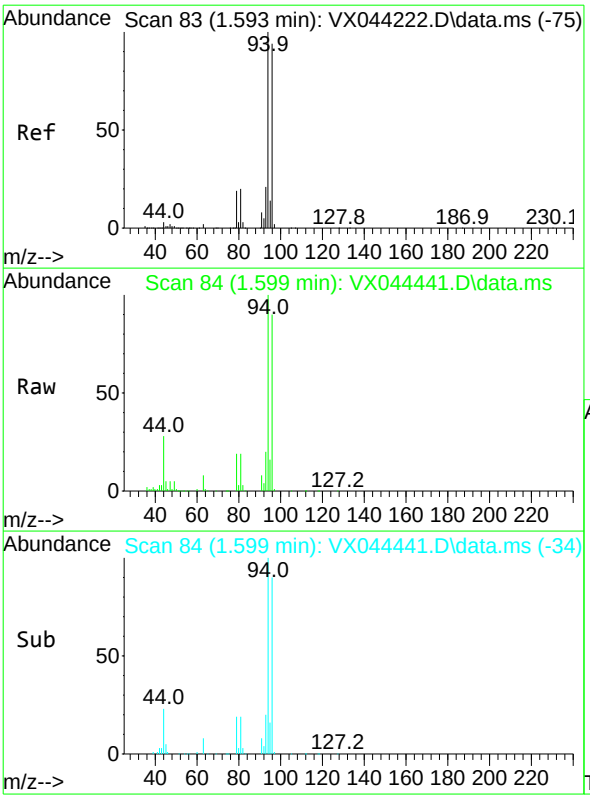


#4
Vinyl Chloride
Concen: 17.887 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 62 Resp: 40370

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.7	38.5

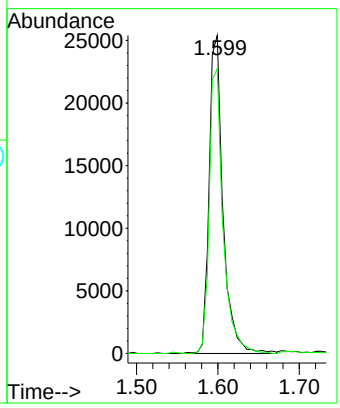




#5
Bromomethane
Concen: 18.804 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 94 Resp: 30109

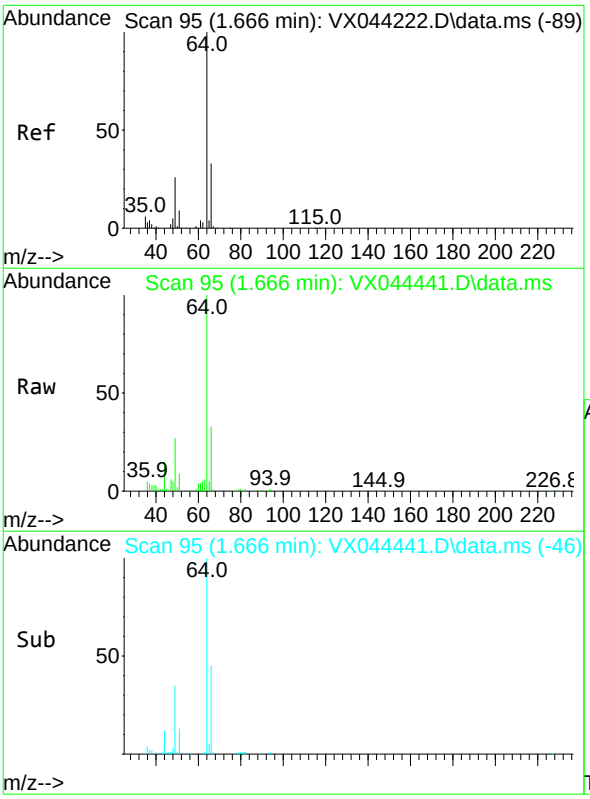
Ion	Ratio	Lower	Upper
94	100		
96	89.5	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

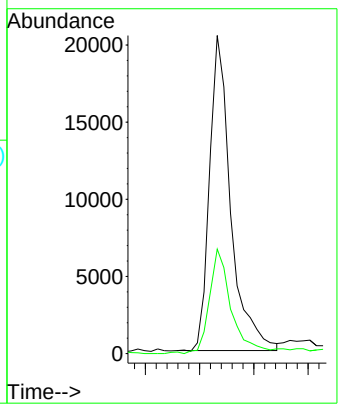
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

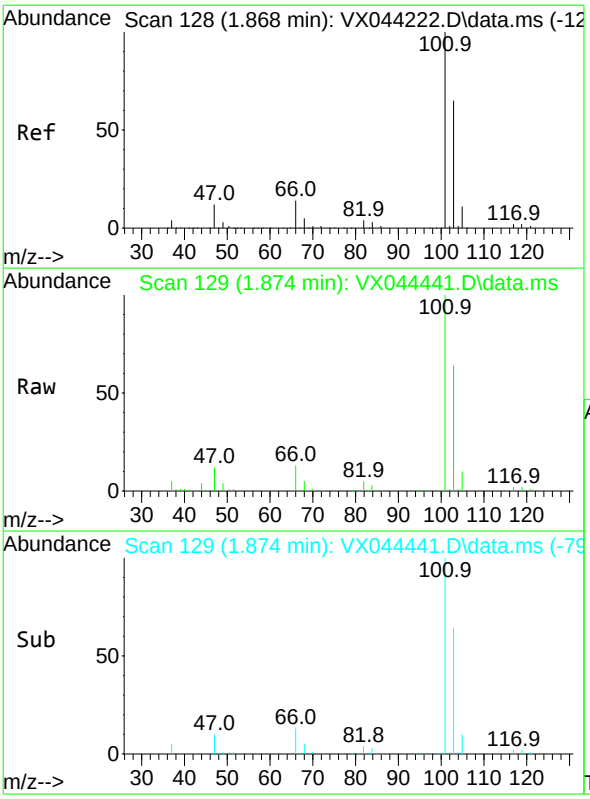


#6
Chloroethane
Concen: 19.764 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 64 Resp: 27776

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.6	39.8

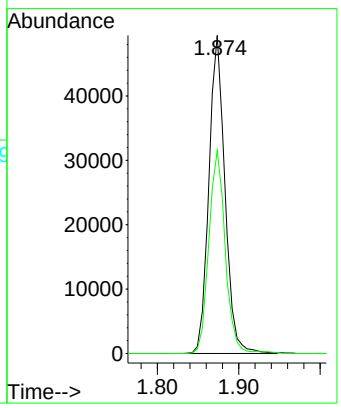




#7
Trichlorofluoromethane
Concen: 15.300 ug/l
RT: 1.874 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:101 Resp: 67604

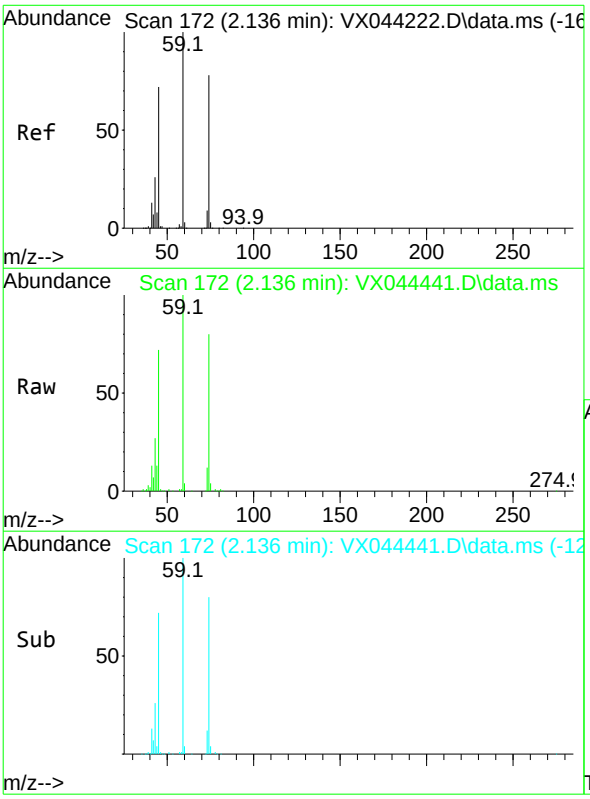
Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

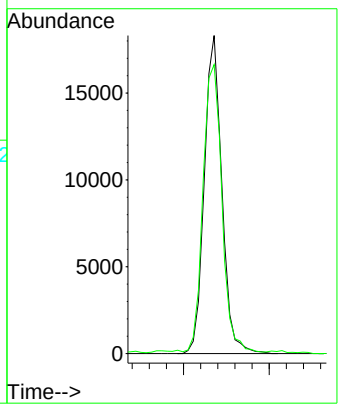
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

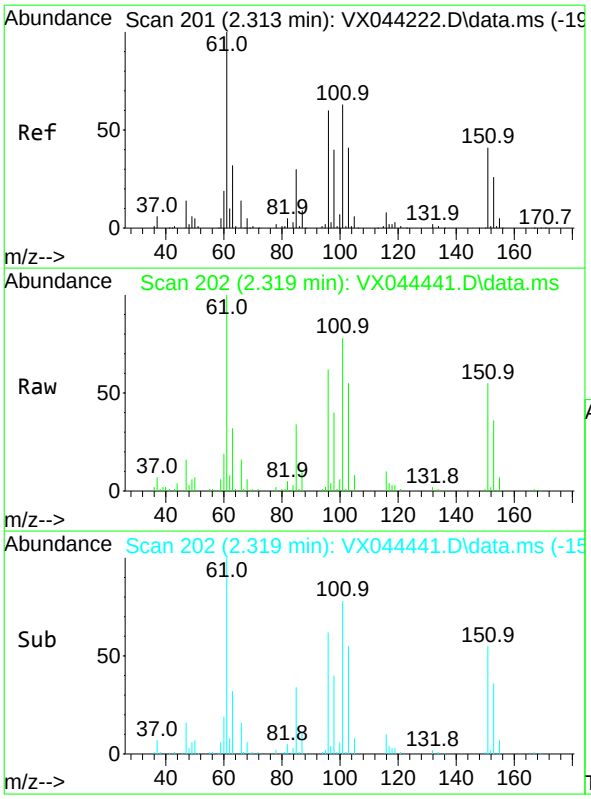


#8
Diethyl Ether
Concen: 17.291 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 74 Resp: 26079

Ion	Ratio	Lower	Upper
74	100		
45	96.3	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.474 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

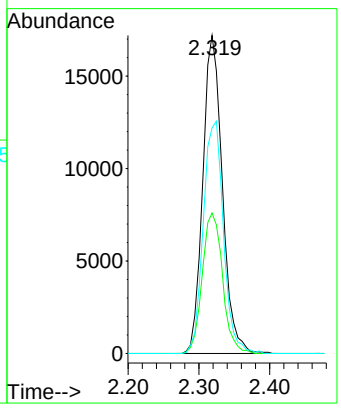
Tgt Ion:101 Resp: 33030

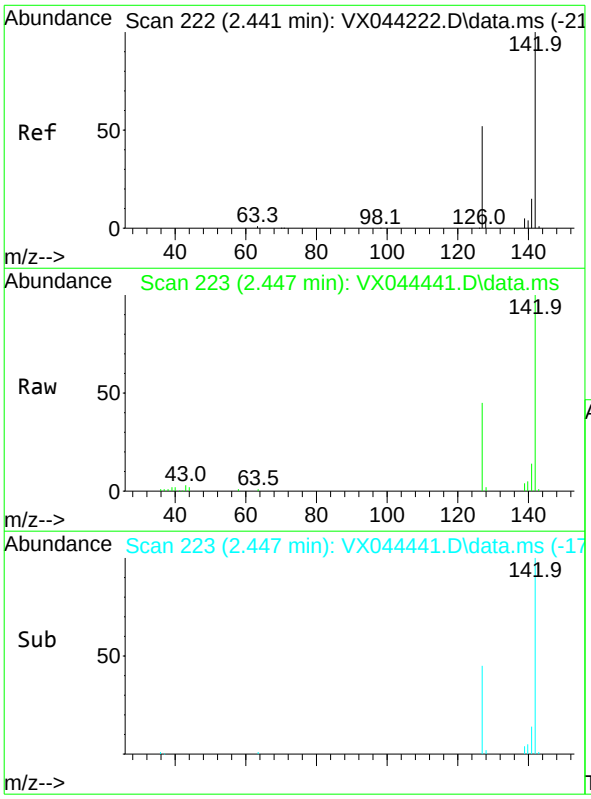
Ion	Ratio	Lower	Upper
101	100		
85	45.8	38.5	57.7
151	75.4	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

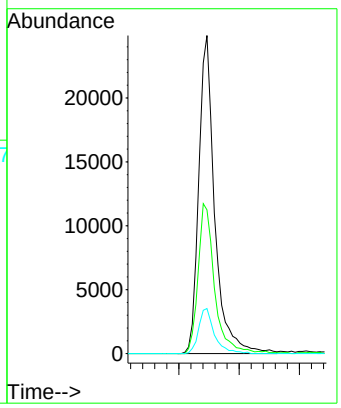


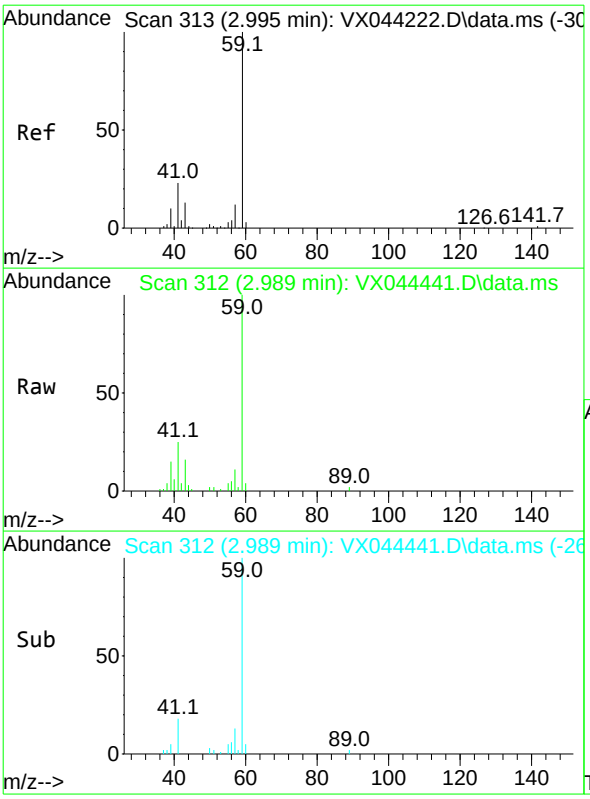


#10
Methyl Iodide
Concen: 19.434 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:142 Resp: 45795

Ion	Ratio	Lower	Upper
142	100		
127	48.9	41.8	62.8
141	14.0	11.5	17.3

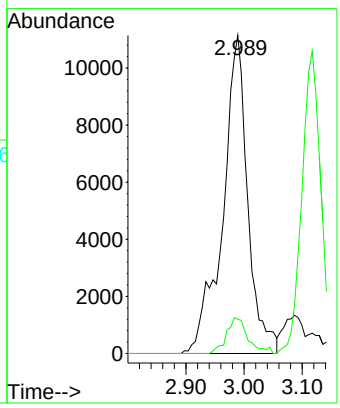




#11
Tert butyl alcohol
Concen: 91.803 ug/l
RT: 2.989 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 59 Resp: 33237

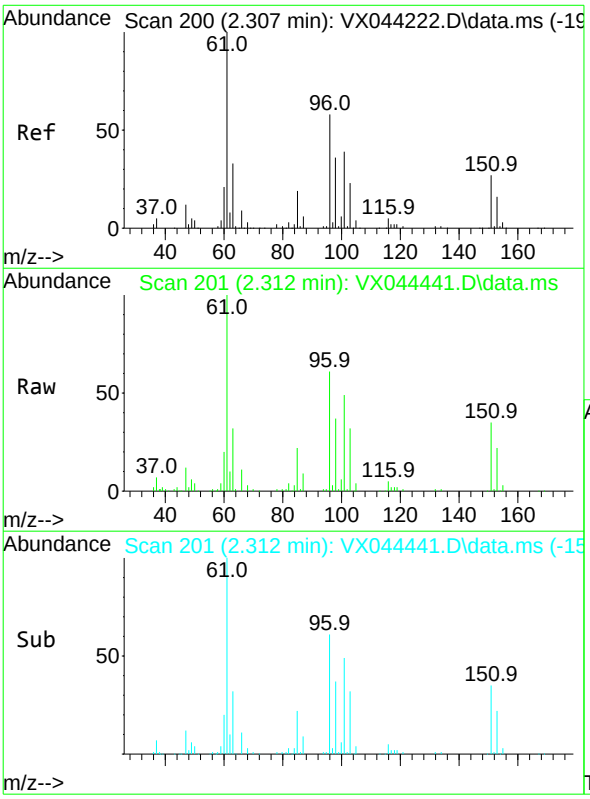
Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

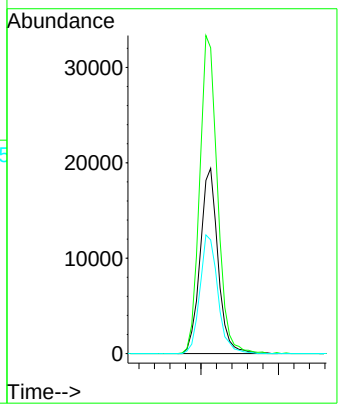
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

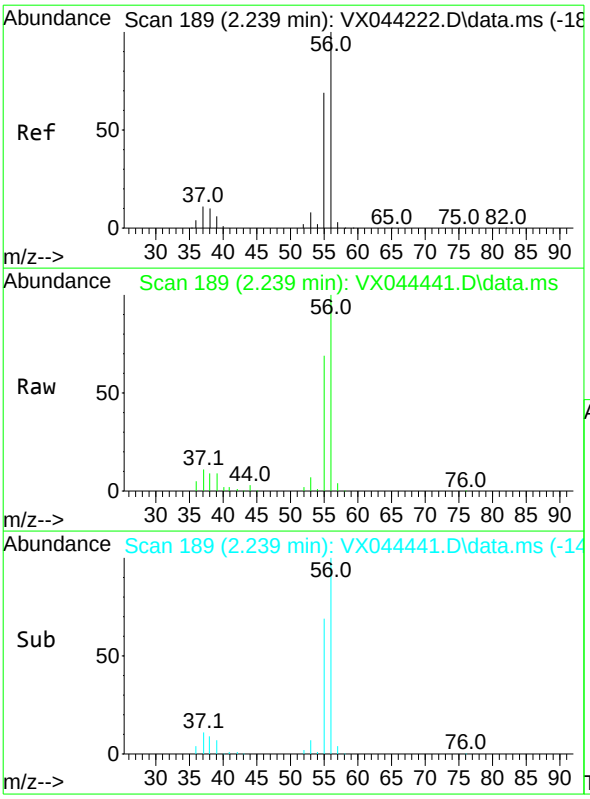


#12
1,1-Dichloroethene
Concen: 18.873 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 96 Resp: 30995

Ion	Ratio	Lower	Upper
96	100		
61	165.0	138.0	207.0
98	61.4	50.0	75.0

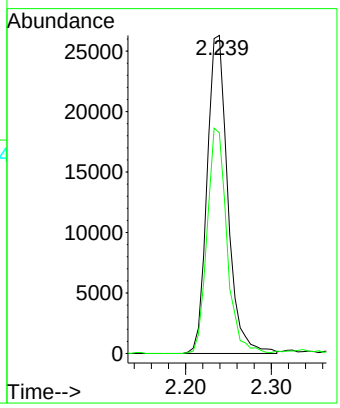




#13
Acrolein
Concen: 84.041 ug/l
RT: 2.239 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 56 Resp: 44044

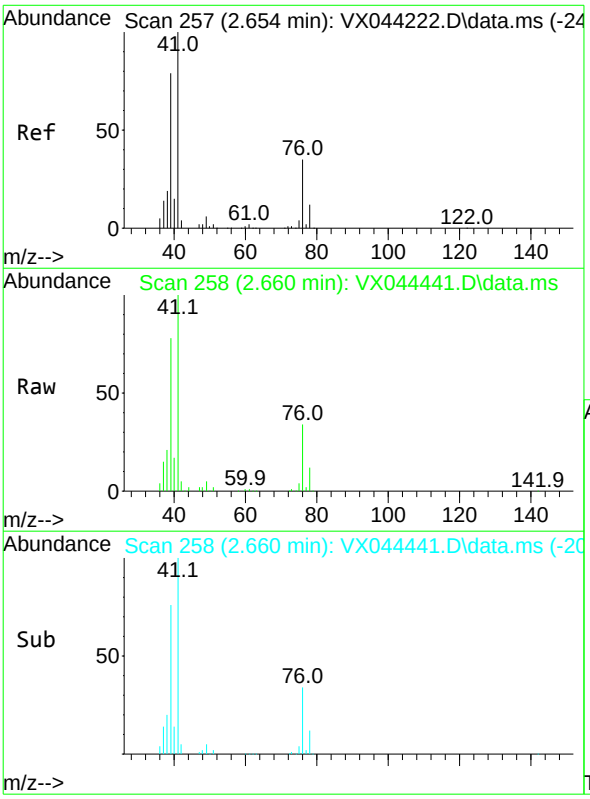
Ion	Ratio	Lower	Upper
56	100		
55	67.7	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

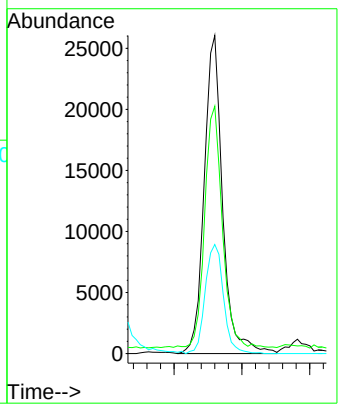
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

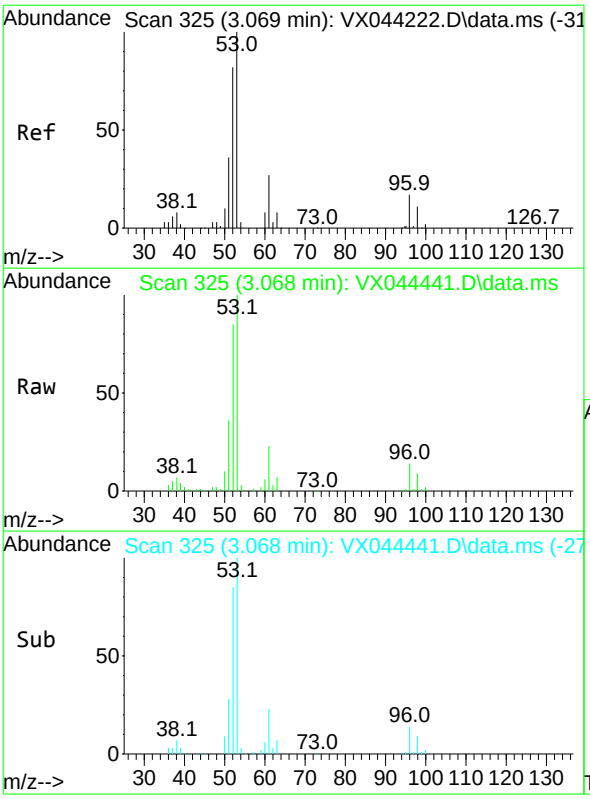


#14
Allyl chloride
Concen: 17.953 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 41 Resp: 49108

Ion	Ratio	Lower	Upper
41	100		
39	73.3	61.9	92.9
76	33.9	27.4	41.2





#15
Acrylonitrile
Concen: 90.610 ug/l
RT: 3.068 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

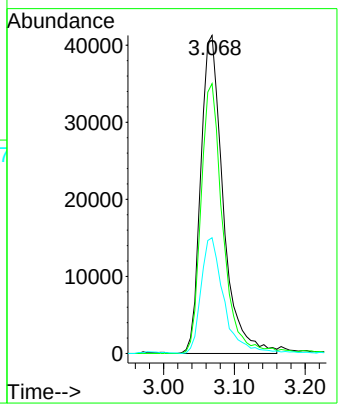
Tgt Ion: 53 Resp: 90872

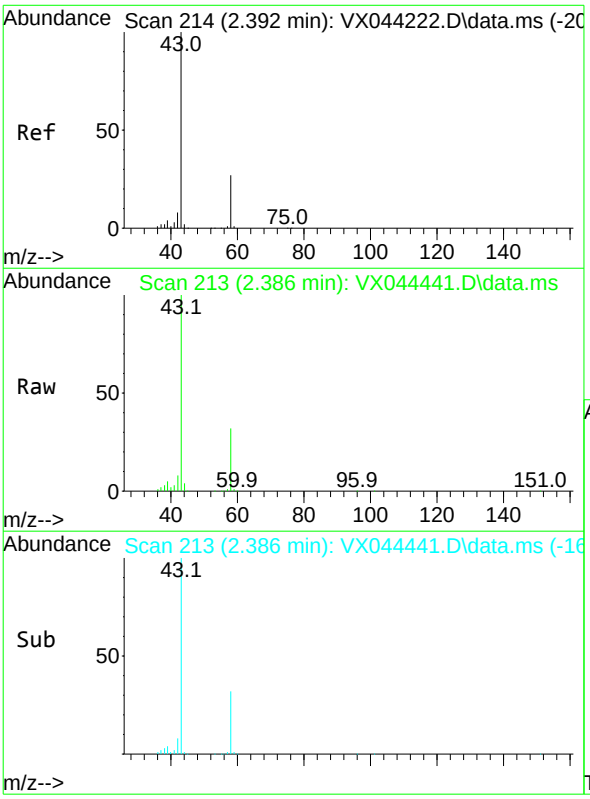
Ion	Ratio	Lower	Upper
53	100		
52	82.8	67.4	101.0
51	37.6	30.3	45.5

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

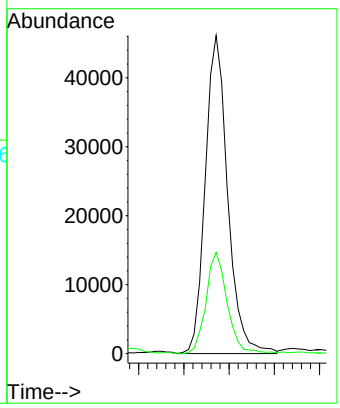


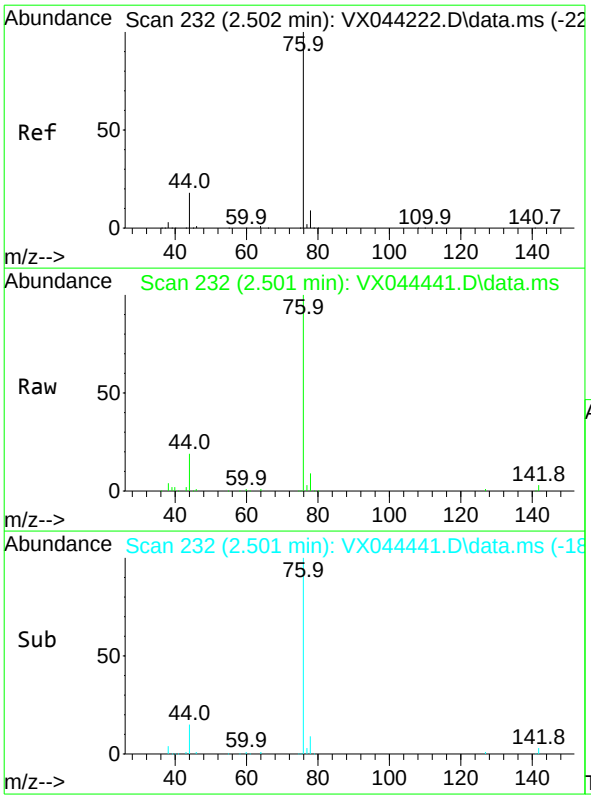


#16
Acetone
Concen: 75.745 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 79327

Ion	Ratio	Lower	Upper
43	100		
58	31.7	21.6	32.4

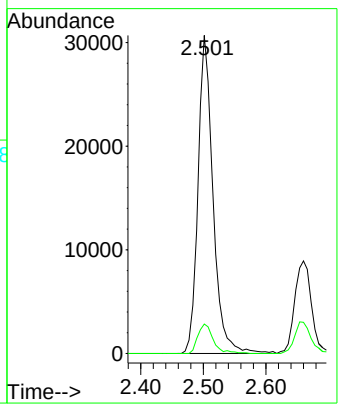




#17
Carbon Disulfide
Concen: 16.369 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 76 Resp: 51100

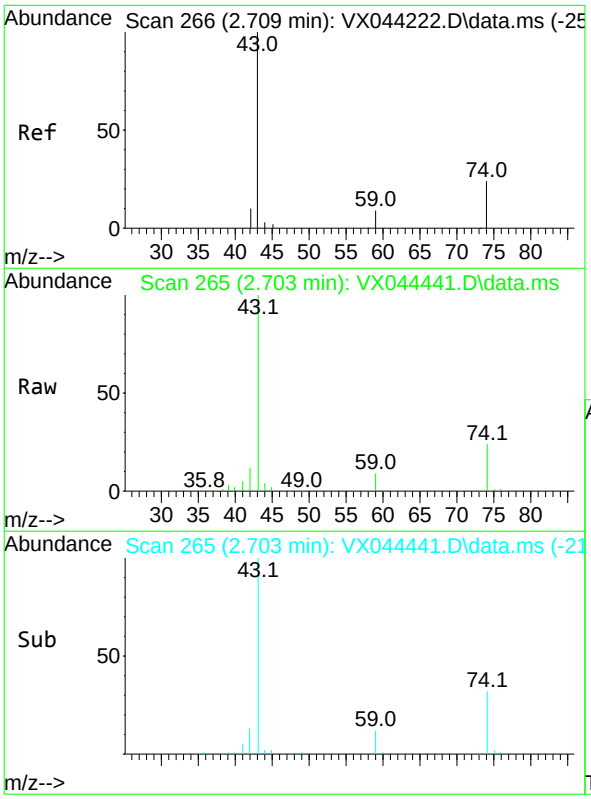
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

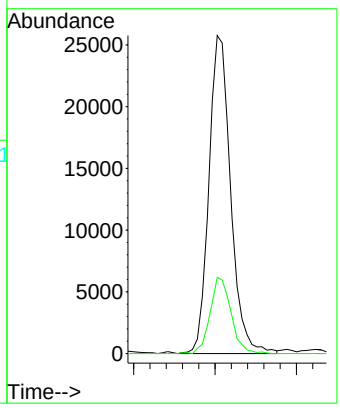
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

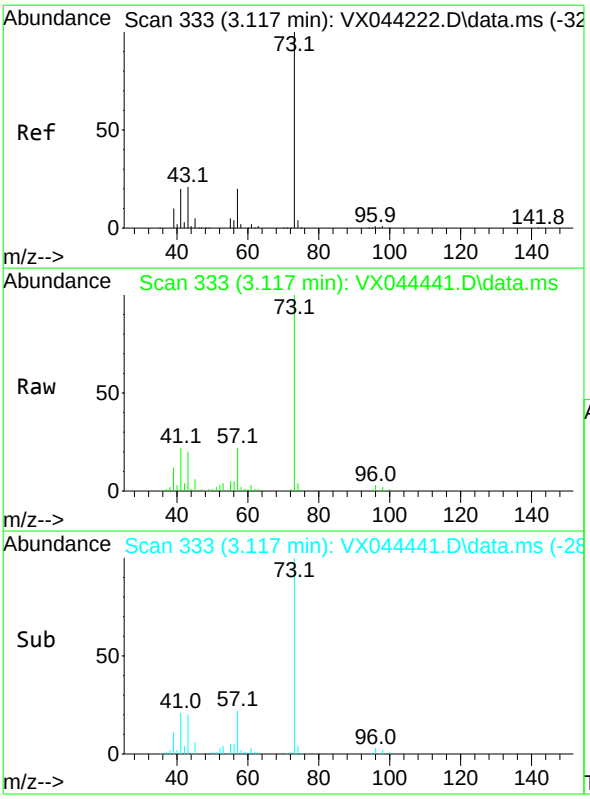


#18
Methyl Acetate
Concen: 17.713 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 47831

Ion	Ratio	Lower	Upper
43	100		
74	23.1	17.7	26.5

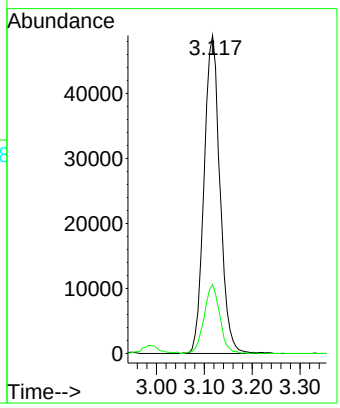




#19
Methyl tert-butyl Ether
Concen: 17.629 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 73 Resp: 112975

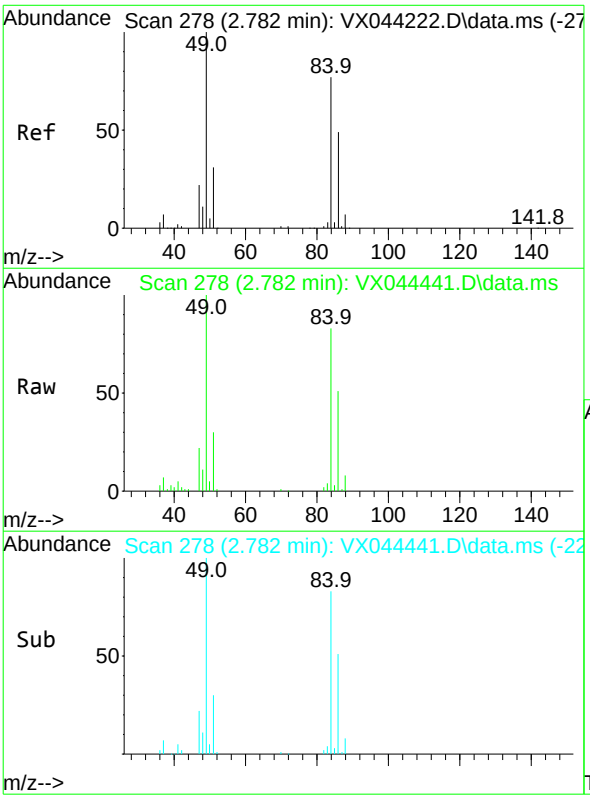
Ion	Ratio	Lower	Upper
73	100		
57	21.6	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

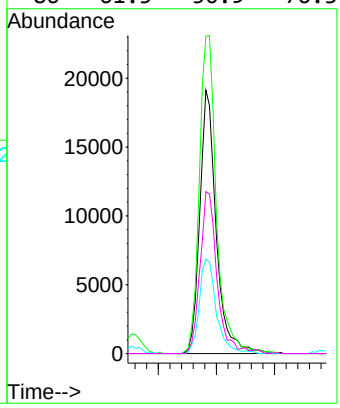
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

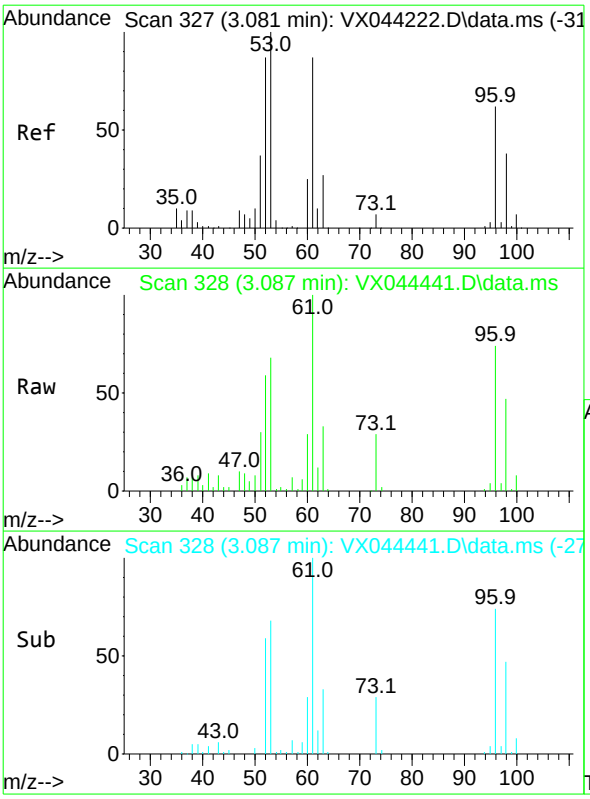


#20
Methylene Chloride
Concen: 19.142 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 84 Resp: 37654

Ion	Ratio	Lower	Upper
84	100		
49	120.5	104.2	156.4
51	35.8	32.2	48.4
86	61.5	50.9	76.3

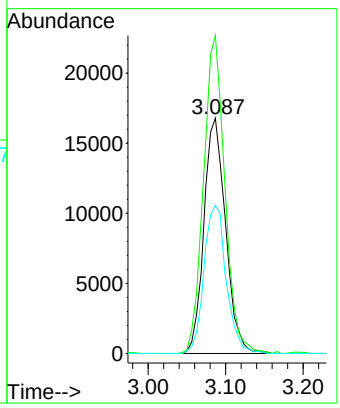




#21
trans-1,2-Dichloroethene
Concen: 18.688 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 96 Resp: 32618

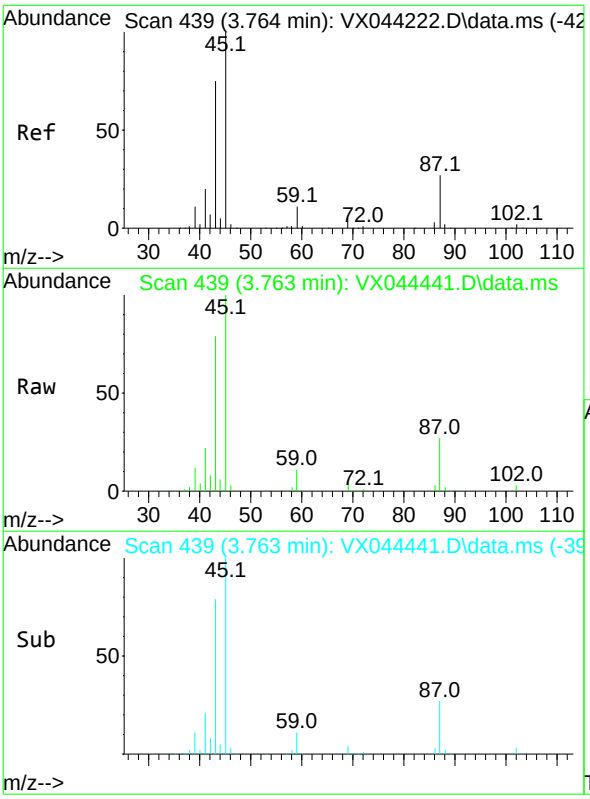
Ion	Ratio	Lower	Upper
96	100		
61	135.2	112.0	168.0
98	62.9	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

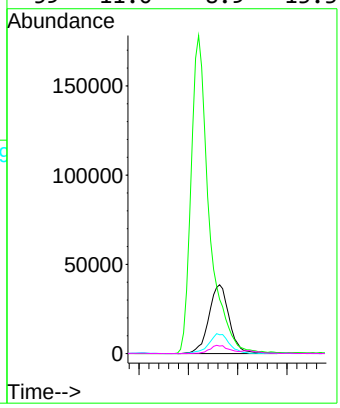
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

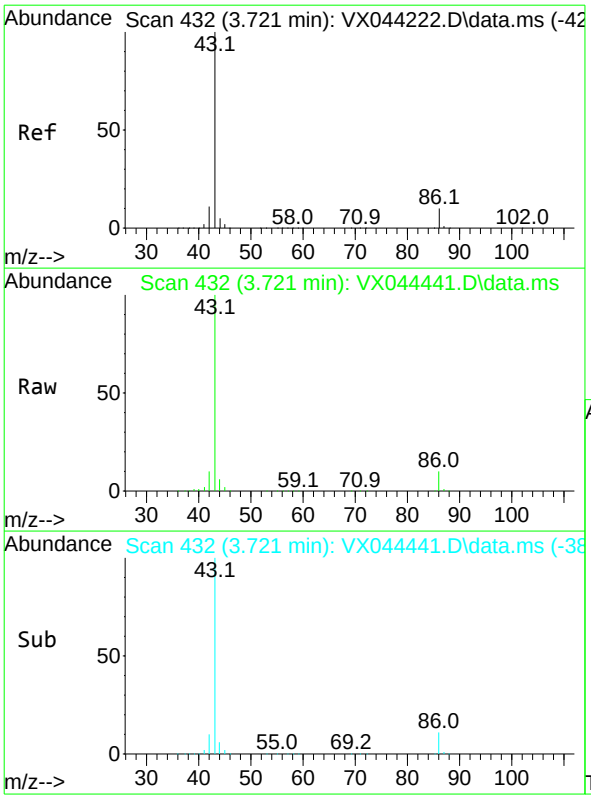


#22
Diisopropyl ether
Concen: 17.968 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 45 Resp: 110674

Ion	Ratio	Lower	Upper
45	100		
43	77.9	60.2	90.2
87	27.4	21.2	31.8
59	11.0	8.9	13.3





#23
Vinyl Acetate
Concen: 91.069 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

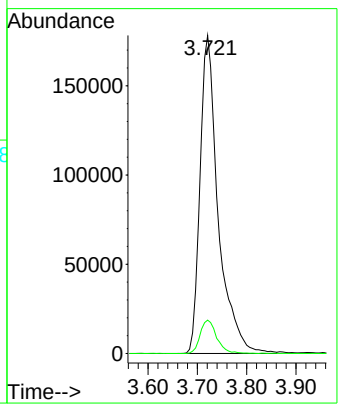
Tgt Ion: 43 Resp: 456052

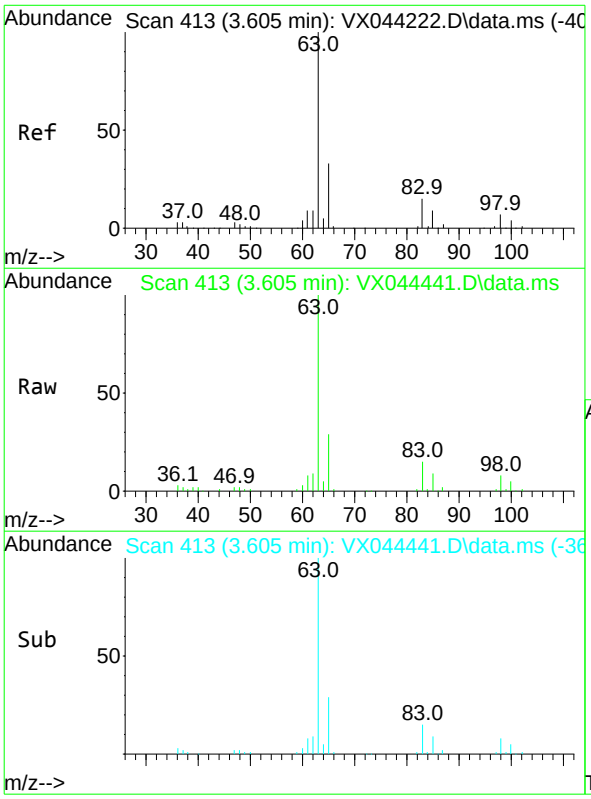
Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.2

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

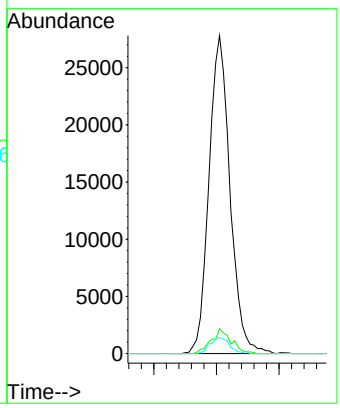


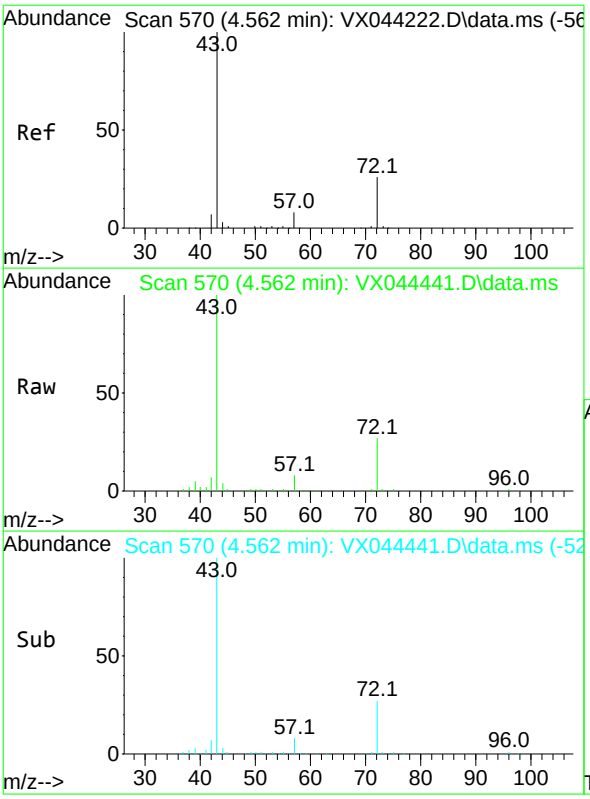


#24
1,1-Dichloroethane
Concen: 18.923 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 63 Resp: 64973

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.6	10.8
100	5.0	2.1	6.3

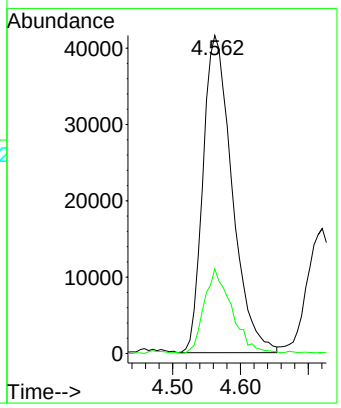




#25
2-Butanone
Concen: 83.289 ug/l
RT: 4.562 min Scan# 57
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 124008

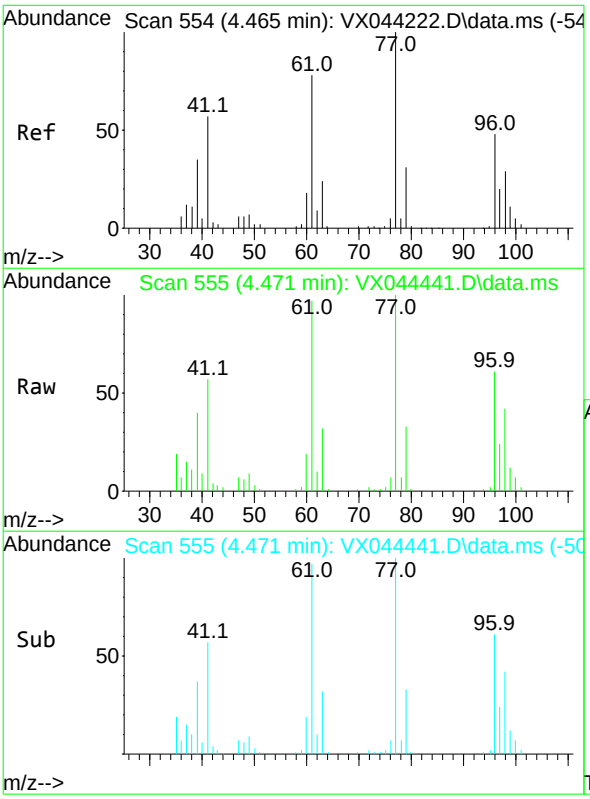
Ion	Ratio	Lower	Upper
43	100		
72	26.3	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

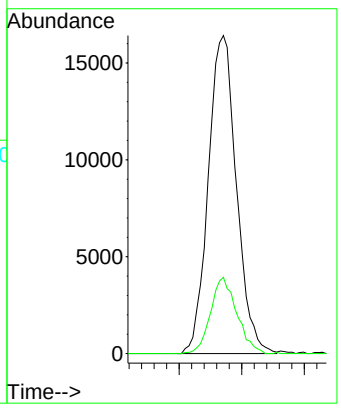
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

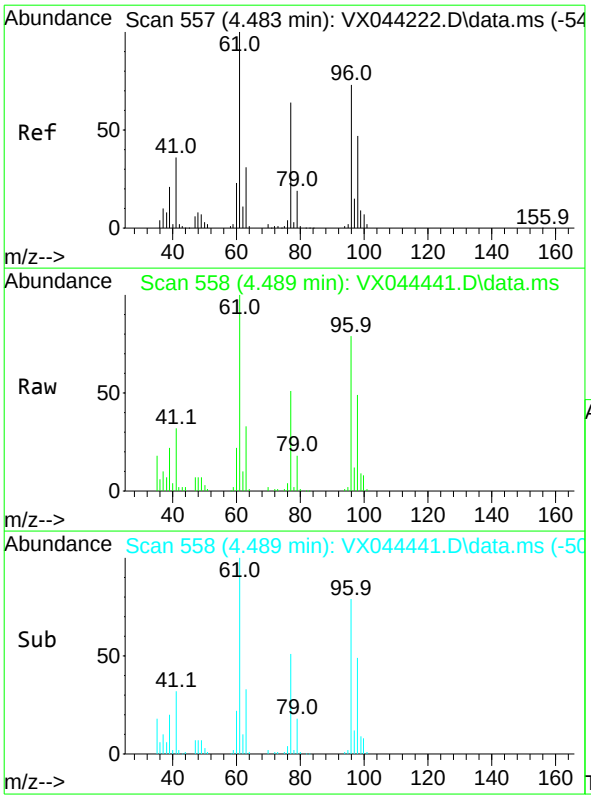


#26
2,2-Dichloropropane
Concen: 18.380 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 77 Resp: 51269

Ion	Ratio	Lower	Upper
77	100		
97	22.3	10.7	32.1

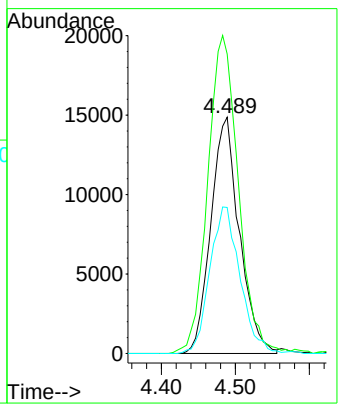




#27
cis-1,2-Dichloroethene
Concen: 17.974 ug/l
RT: 4.489 min Scan# 55
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 96 Resp: 39842

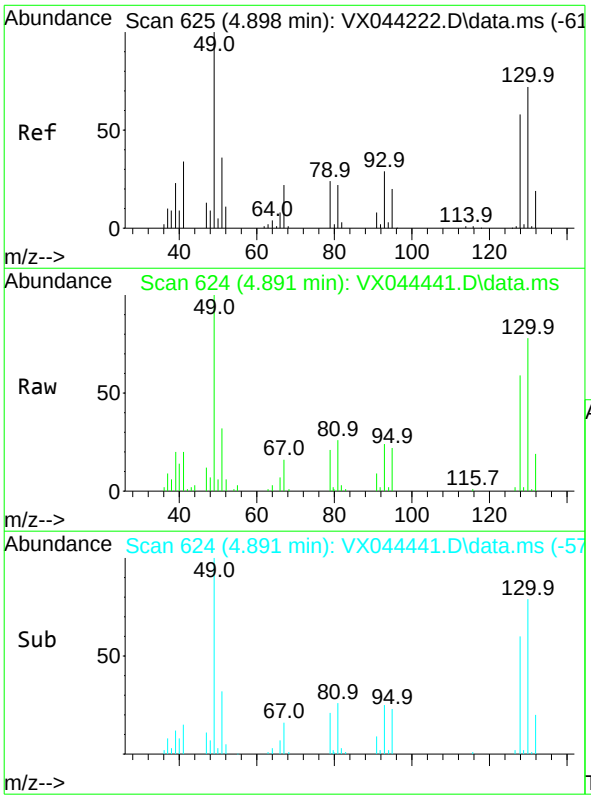
Ion	Ratio	Lower	Upper
96	100		
61	144.2	0.0	299.0
98	65.7	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

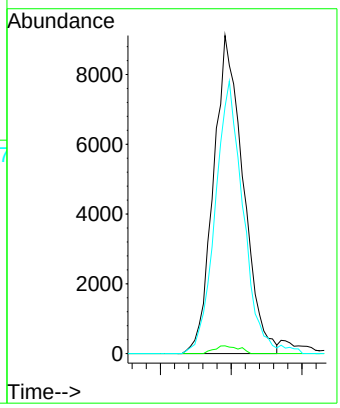
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

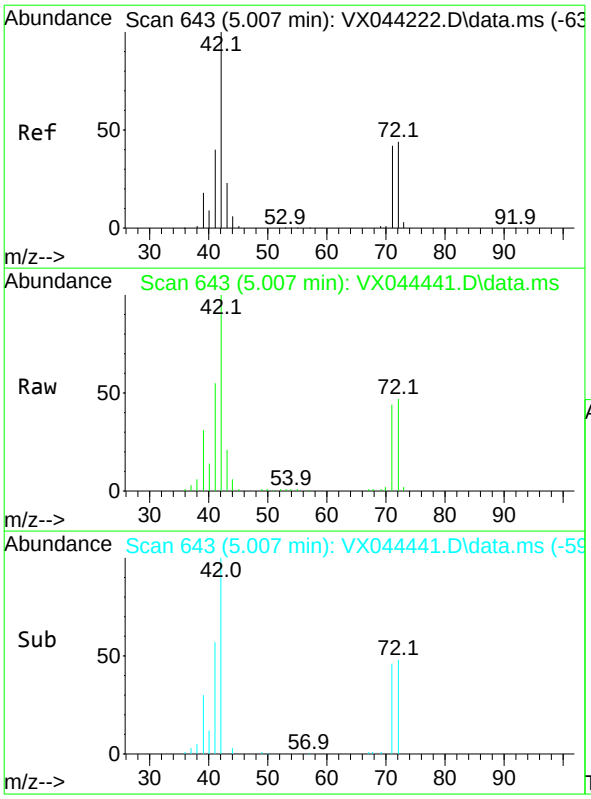


#28
Bromochloromethane
Concen: 15.760 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 49 Resp: 26535

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	80.3	62.1	93.1





#29
Tetrahydrofuran
Concen: 84.947 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

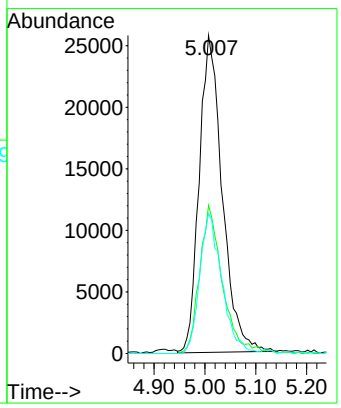
Tgt Ion: 42 Resp: 81181

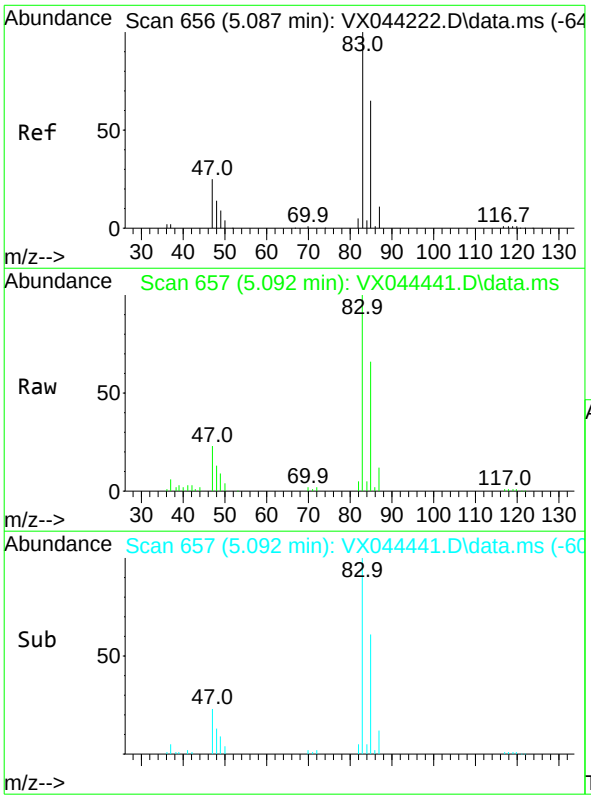
Ion	Ratio	Lower	Upper
42	100		
72	45.9	37.0	55.6
71	42.5	33.6	50.4

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

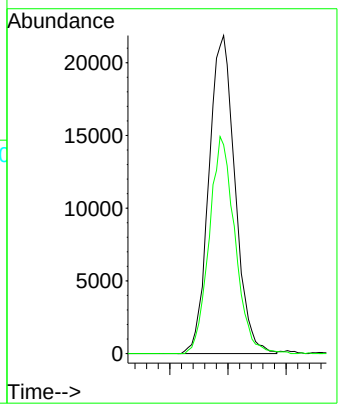


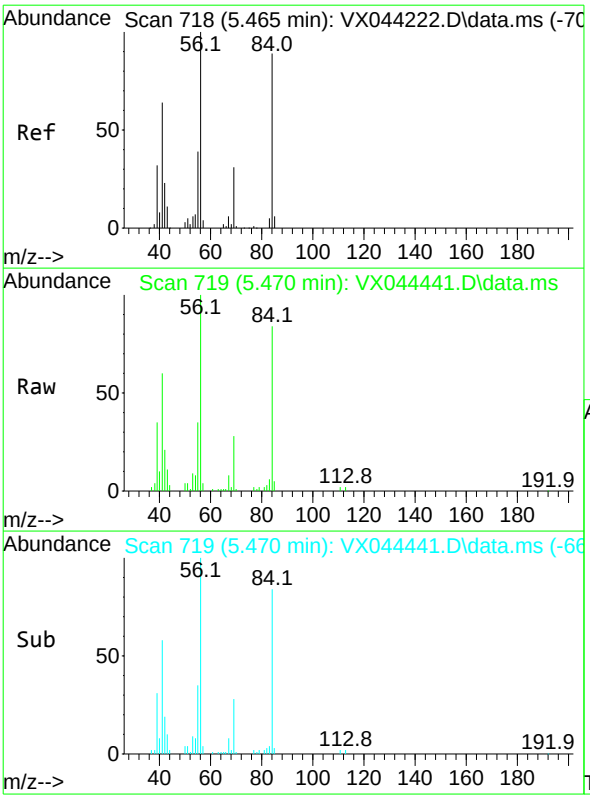


#30
Chloroform
Concen: 17.686 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 83 Resp: 68227

Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.6	77.4

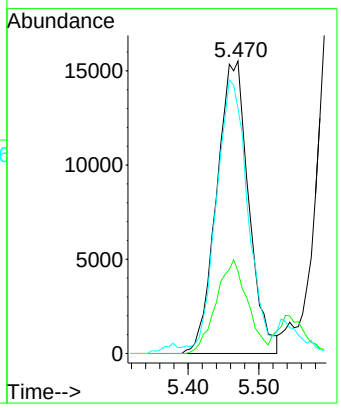




#31
Cyclohexane
Concen: 17.628 ug/l
RT: 5.470 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 56 Resp: 48875

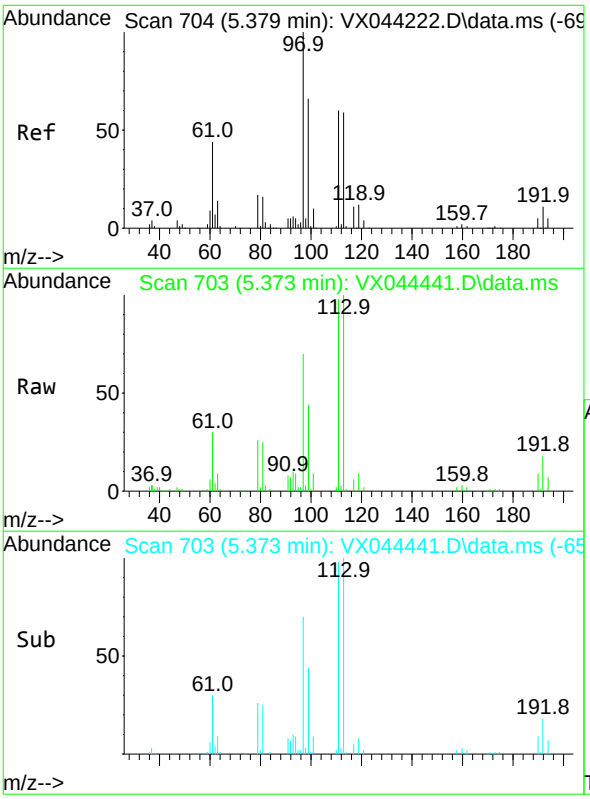
Ion	Ratio	Lower	Upper
56	100		
69	28.1	24.7	37.1
84	81.7	71.0	106.6



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

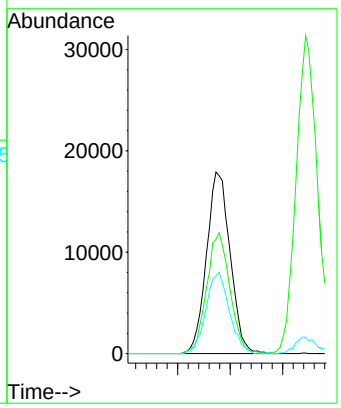
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

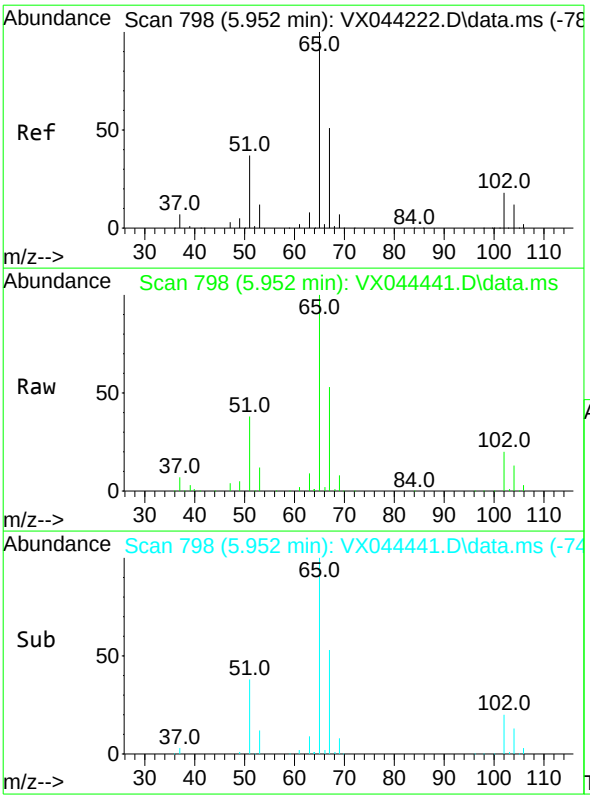


#32
1,1,1-Trichloroethane
Concen: 17.459 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 97 Resp: 55907

Ion	Ratio	Lower	Upper
97	100		
99	65.6	50.8	76.2
61	44.3	35.2	52.8

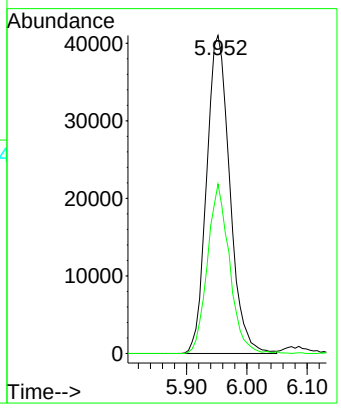




#33
1,2-Dichloroethane-d4
Concen: 42.700 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 65 Resp: 109691

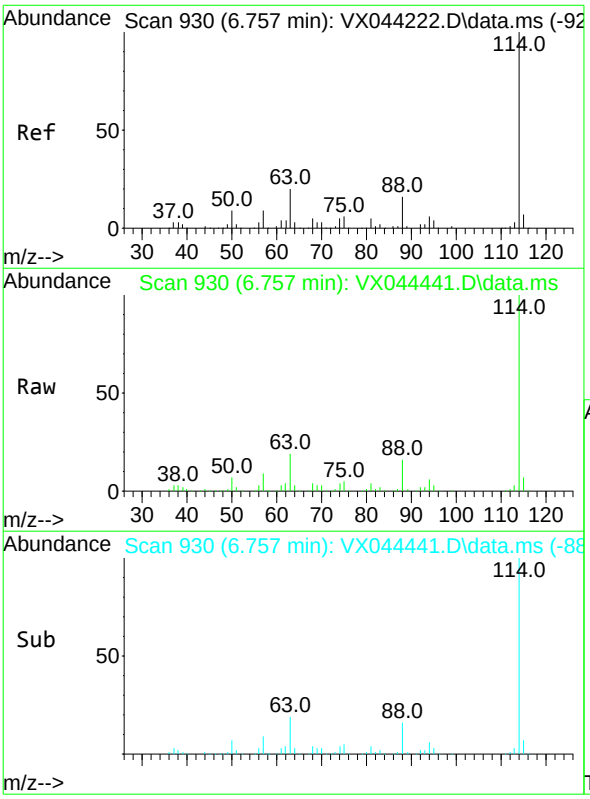
Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

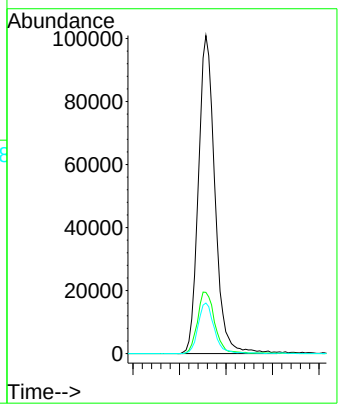
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

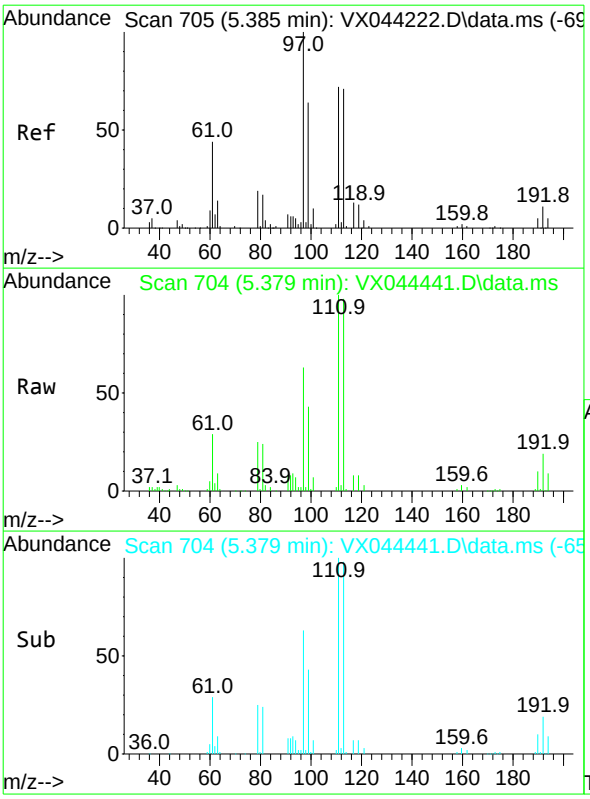


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:114 Resp: 249173

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	40.6
88	15.9	0.0	31.8





#35
Dibromofluoromethane
Concen: 48.541 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

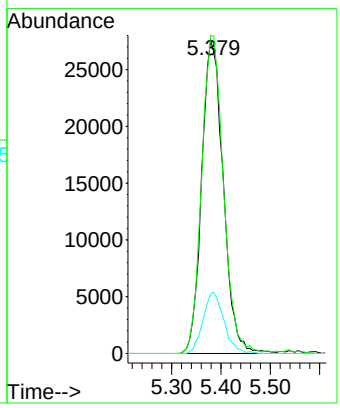
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

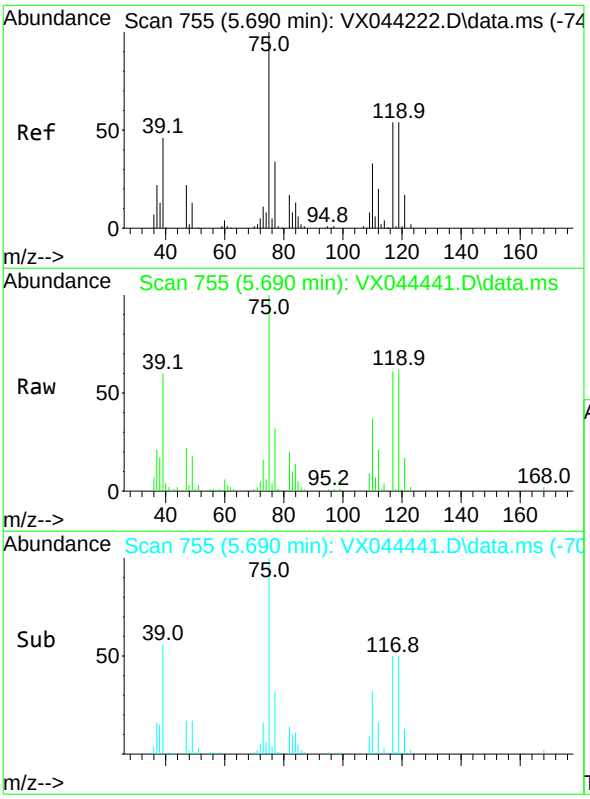
Tgt Ion:113 Resp: 83769

Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.4	120.6
192	18.9	13.3	19.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

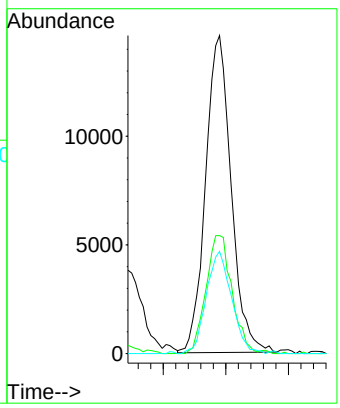


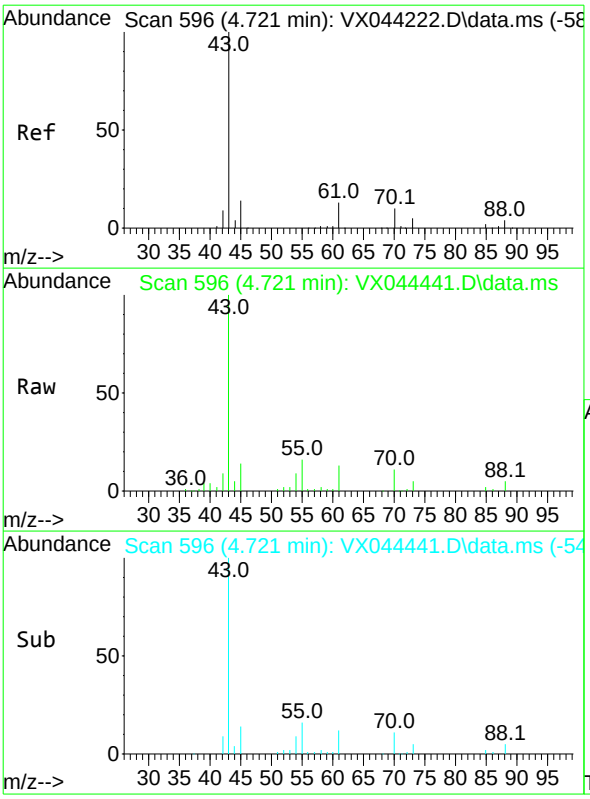


#36
1,1-Dichloropropene
Concen: 18.566 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 41416

Ion	Ratio	Lower	Upper
75	100		
110	37.6	17.3	51.7
77	31.9	25.4	38.0

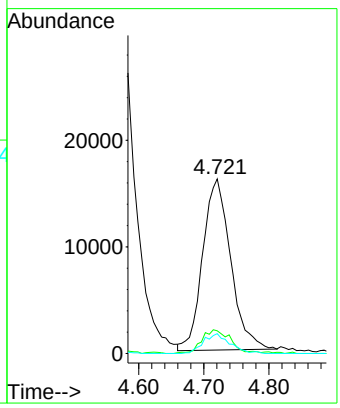




#37
Ethyl Acetate
Concen: 17.412 ug/l
RT: 4.721 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 48014

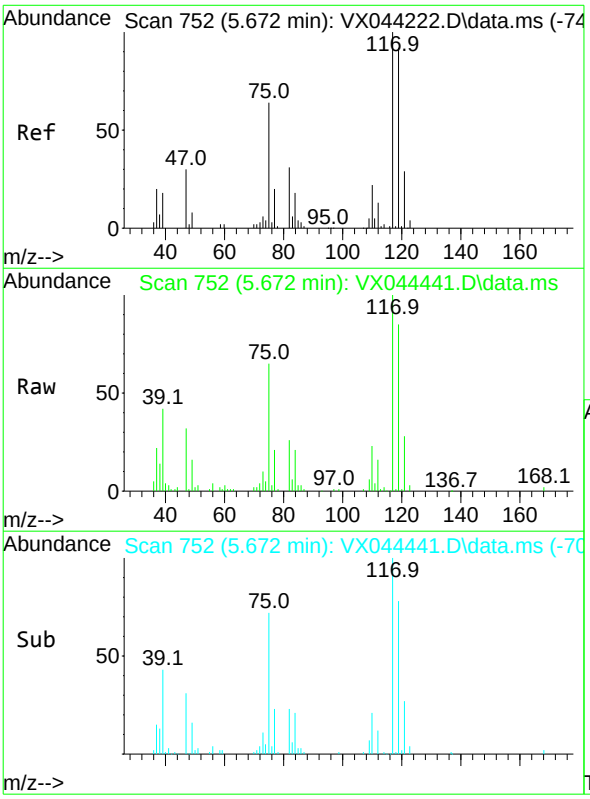
Ion	Ratio	Lower	Upper
43	100		
61	14.3	9.8	14.8
70	11.0	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

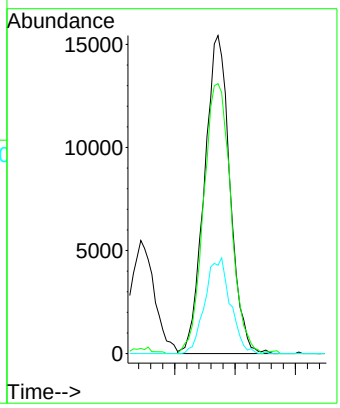
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

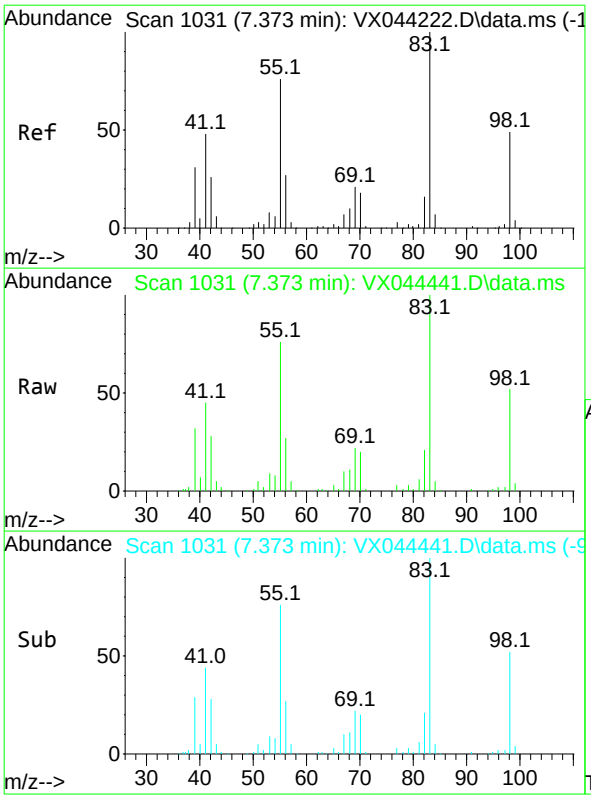


#38
Carbon Tetrachloride
Concen: 18.898 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:117 Resp: 45386

Ion	Ratio	Lower	Upper
117	100		
119	84.9	74.2	111.4
121	27.7	23.0	34.6

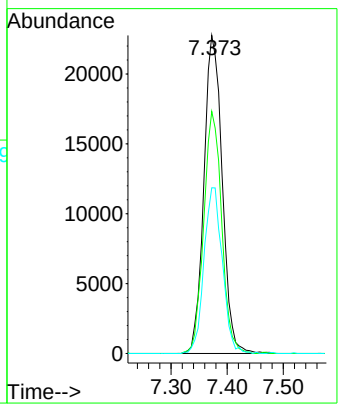




#39
Methylcyclohexane
Concen: 19.332 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 83 Resp: 51554

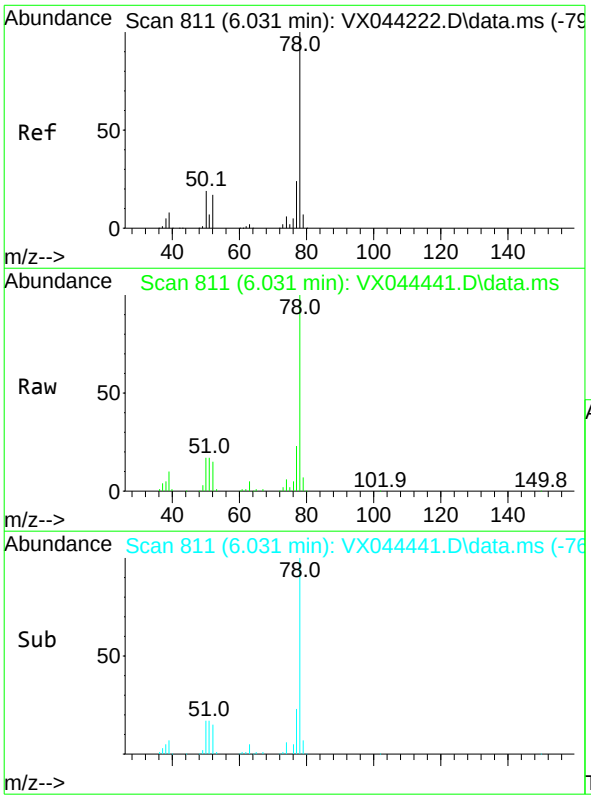
Ion	Ratio	Lower	Upper
83	100		
55	76.1	60.7	91.1
98	52.1	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

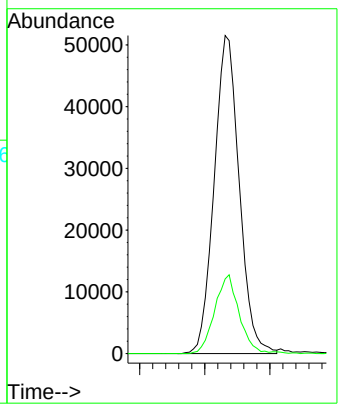
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

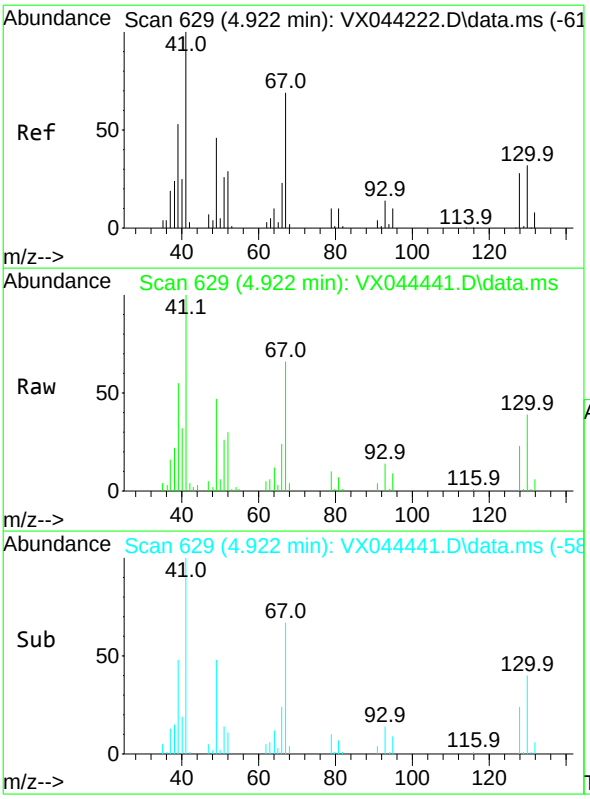


#40
Benzene
Concen: 20.358 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 78 Resp: 137885

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.3	28.9





#41
Methacrylonitrile
Concen: 18.343 ug/l
RT: 4.922 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

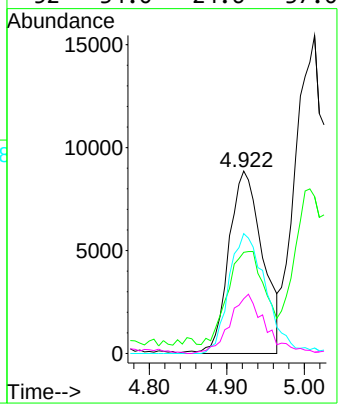
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

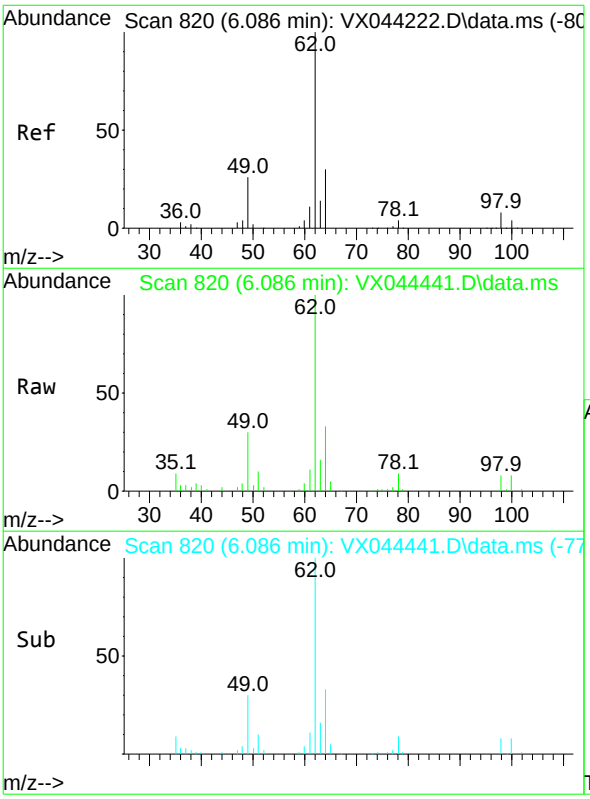
Tgt Ion: 41 Resp: 26859

Ion	Ratio	Lower	Upper
41	100		
39	56.0	44.2	66.4
67	72.8	57.2	85.8
52	34.0	24.6	37.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

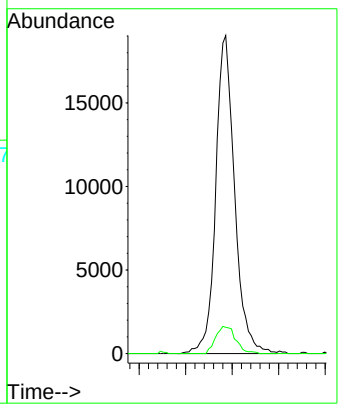


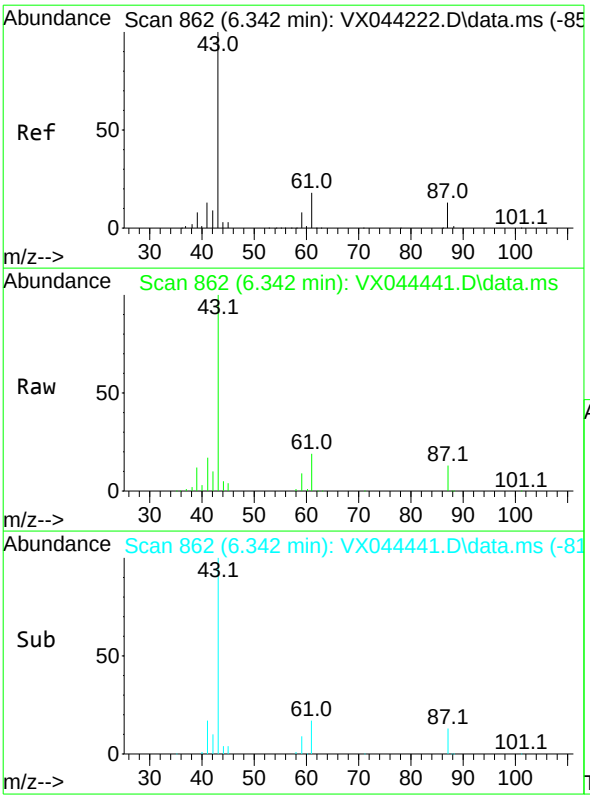


#42
1,2-Dichloroethane
Concen: 19.207 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 62 Resp: 53588

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	15.8

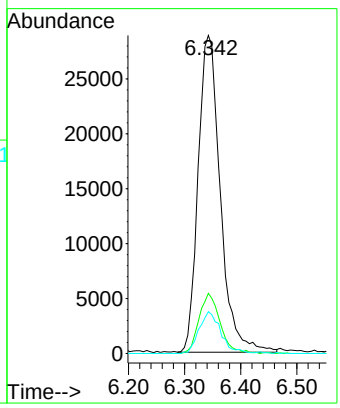




#43
Isopropyl Acetate
Concen: 18.378 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 79207

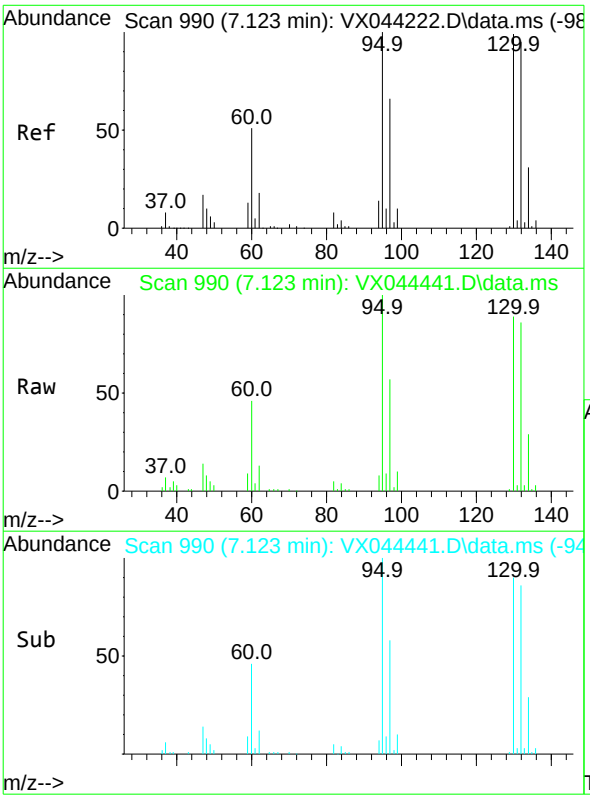
Ion	Ratio	Lower	Upper
43	100		
61	18.0	14.2	21.2
87	12.9	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

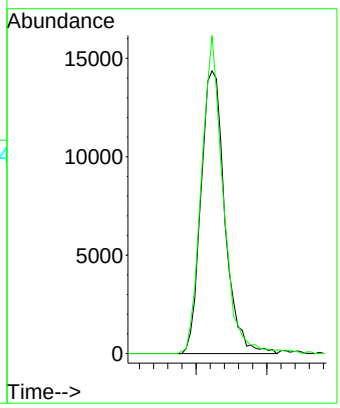
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

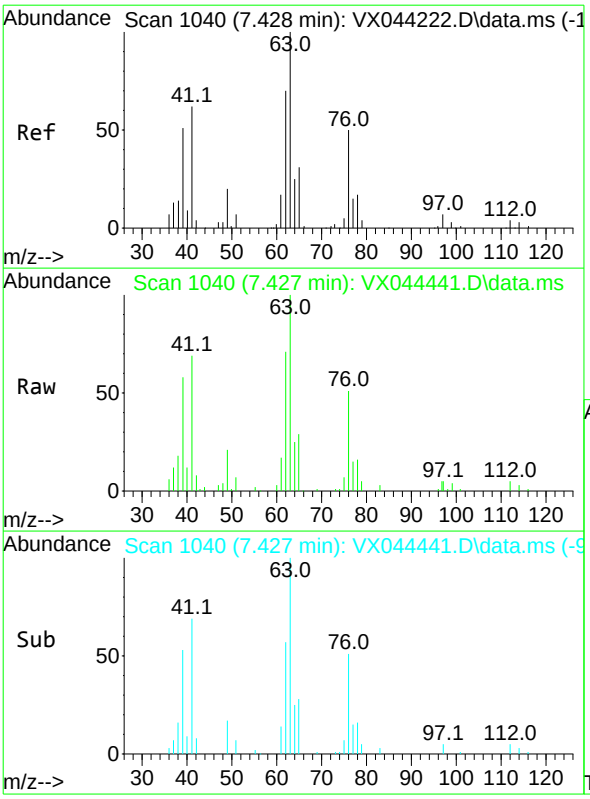


#44
Trichloroethene
Concen: 19.902 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:130 Resp: 33615

Ion	Ratio	Lower	Upper
130	100		
95	112.5	0.0	201.4

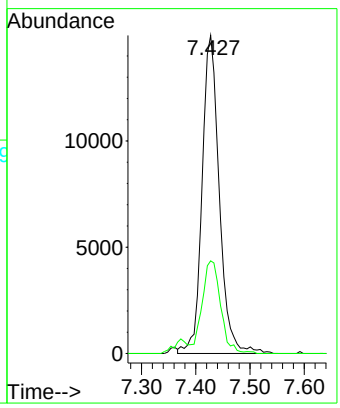




#45
1,2-Dichloropropane
Concen: 19.077 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 63 Resp: 33011

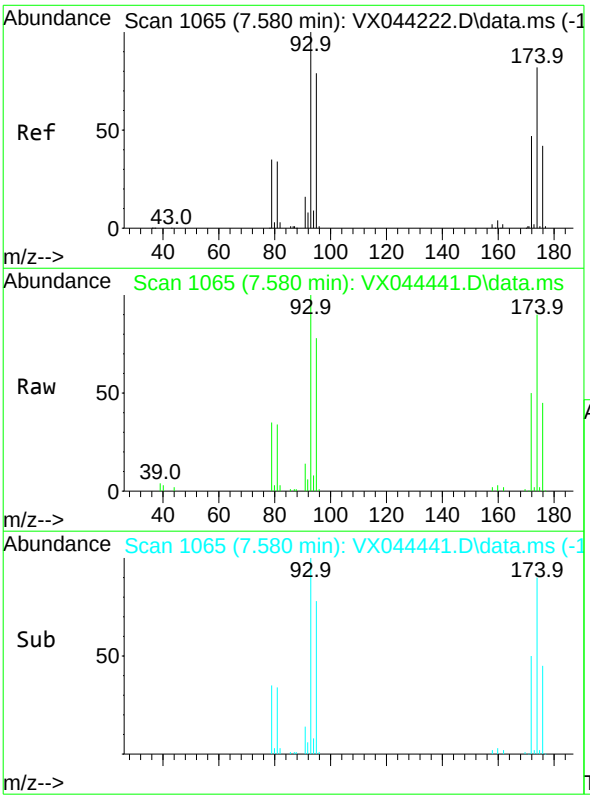
Ion	Ratio	Lower	Upper
63	100		
65	29.1	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

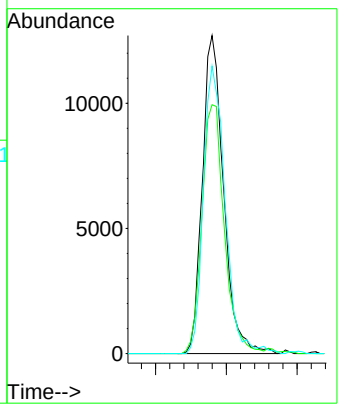
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

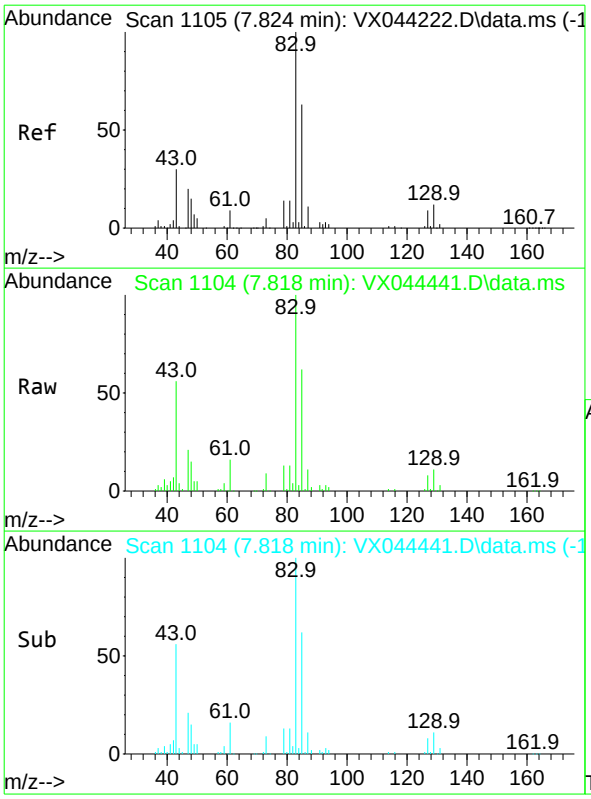


#46
Dibromomethane
Concen: 19.737 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 93 Resp: 26495

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.4	98.2
174	92.4	67.9	101.9

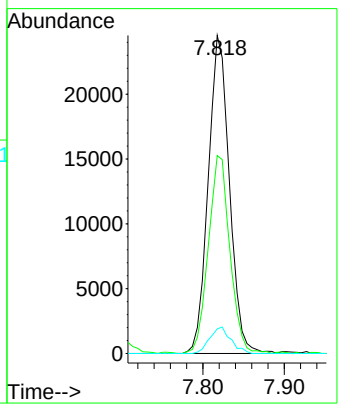




#47
Bromodichloromethane
Concen: 19.132 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 83 Resp: 44357

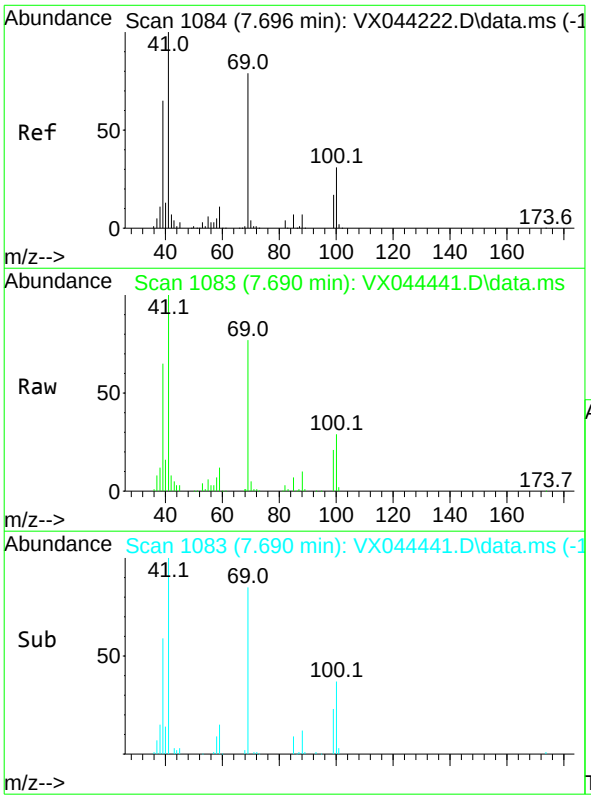
Ion	Ratio	Lower	Upper
83	100		
85	62.2	50.6	75.8
127	7.7	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

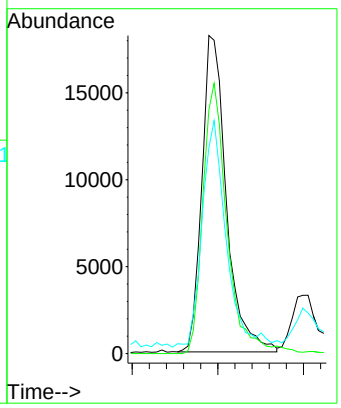
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

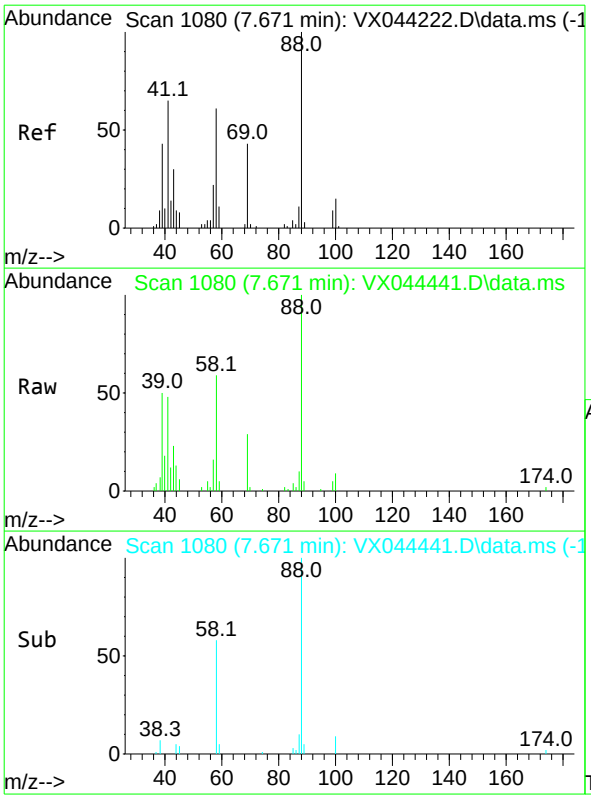


#48
Methyl methacrylate
Concen: 17.281 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 41 Resp: 36154

Ion	Ratio	Lower	Upper
41	100		
69	84.8	62.4	93.6
39	70.2	53.3	79.9





#49
1,4-Dioxane
Concen: 292.846 ug/l
RT: 7.671 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

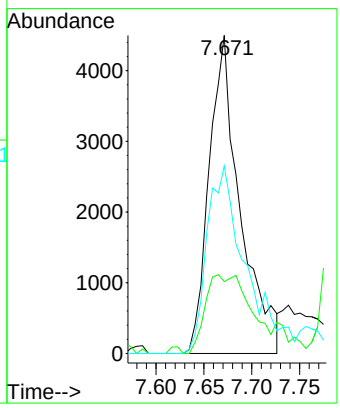
Tgt Ion: 88 Resp: 10158

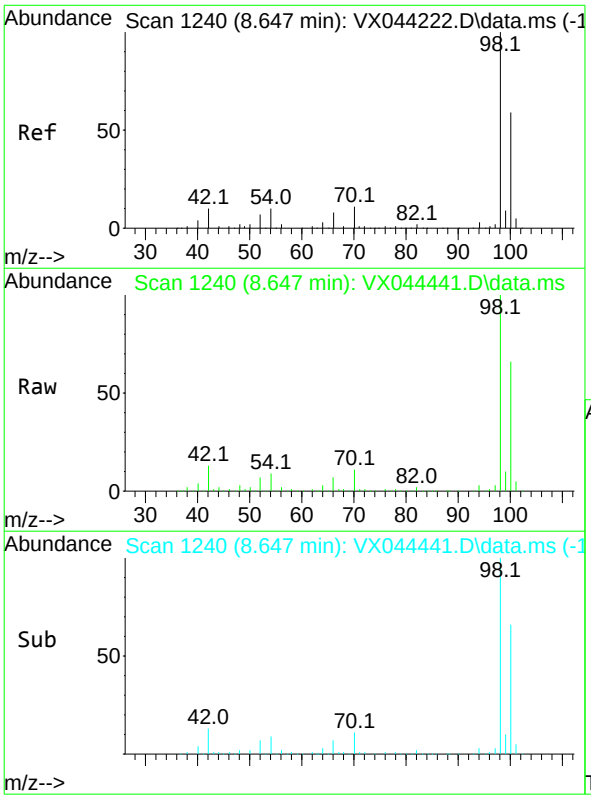
Ion	Ratio	Lower	Upper
88	100		
43	36.0	27.1	40.7
58	73.5	41.0	61.4#

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

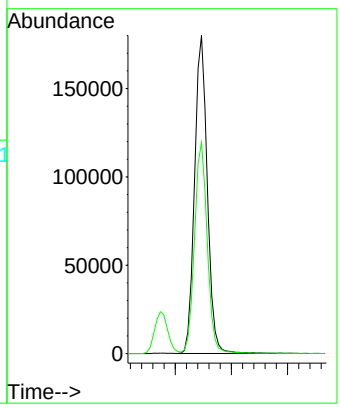


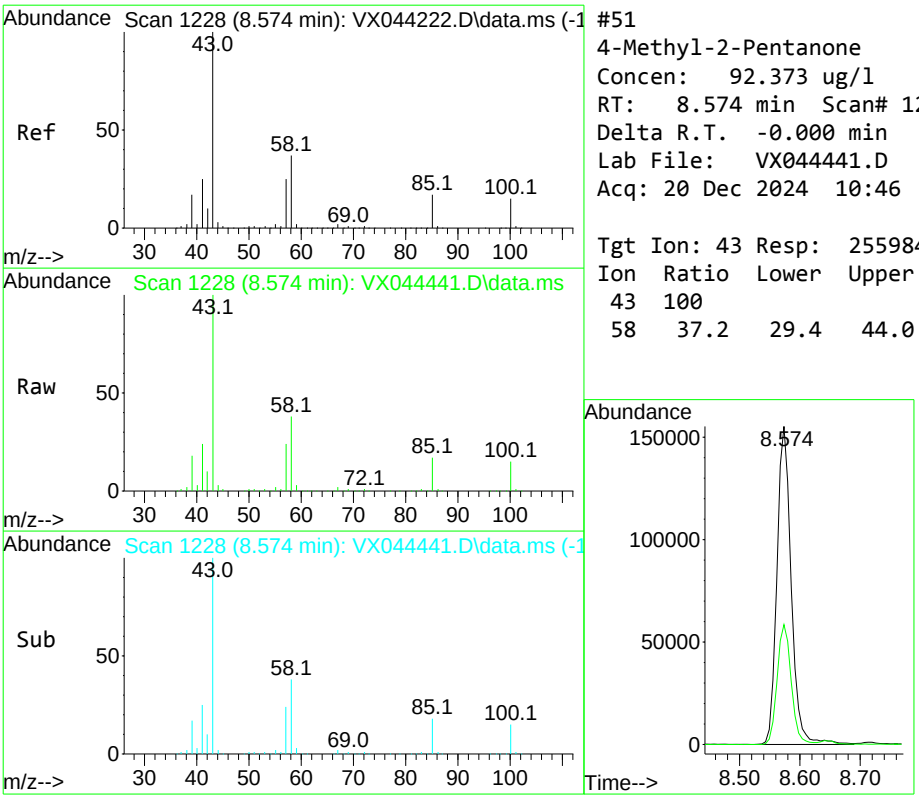


#50
Toluene-d8
Concen: 48.669 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 98 Resp: 283358

Ion	Ratio	Lower	Upper
98	100		
100	66.4	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 92.373 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

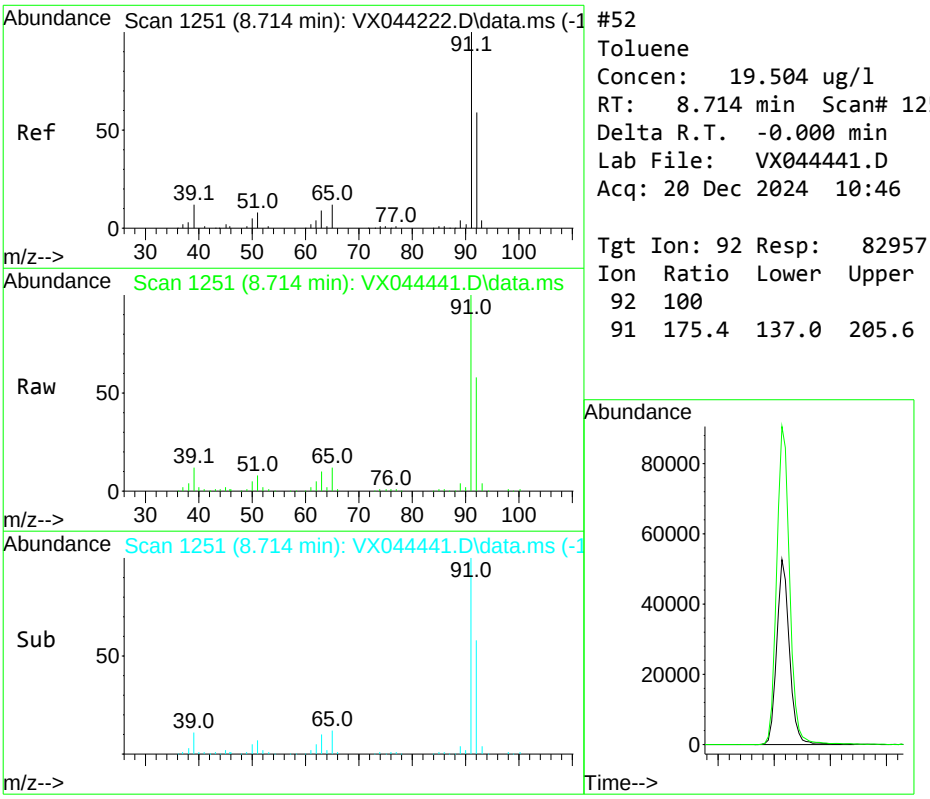
Tgt Ion: 43 Resp: 255984

Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.4	44.0

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

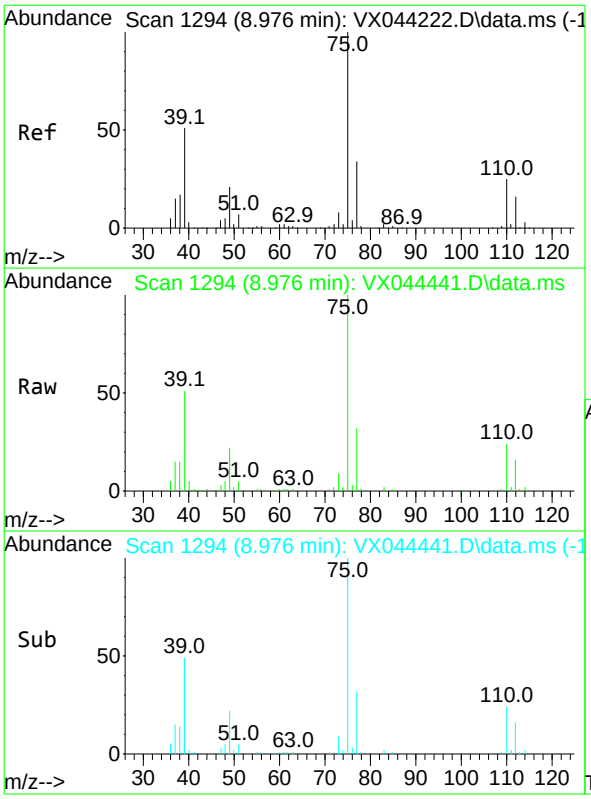
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#52
Toluene
Concen: 19.504 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 92 Resp: 82957

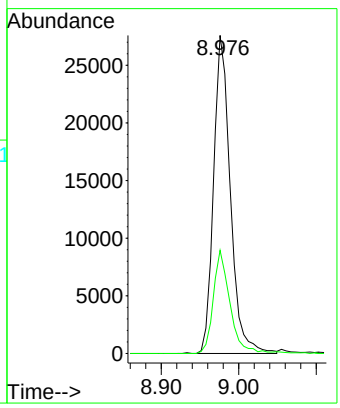
Ion	Ratio	Lower	Upper
92	100		
91	175.4	137.0	205.6



#53
t-1,3-Dichloropropene
Concen: 17.860 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 41417

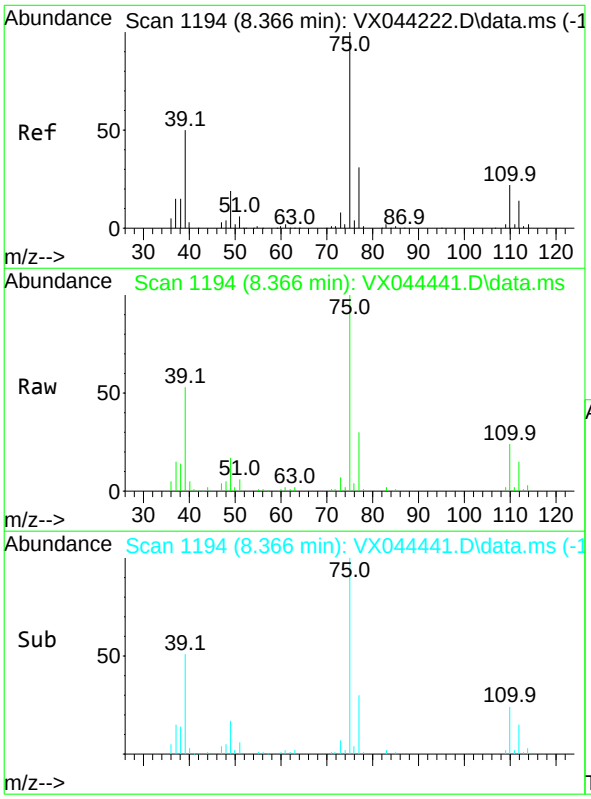
Ion	Ratio	Lower	Upper
75	100		
77	32.4	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

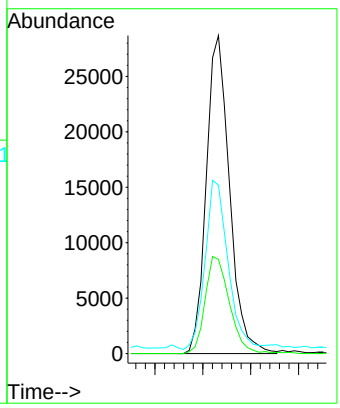
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

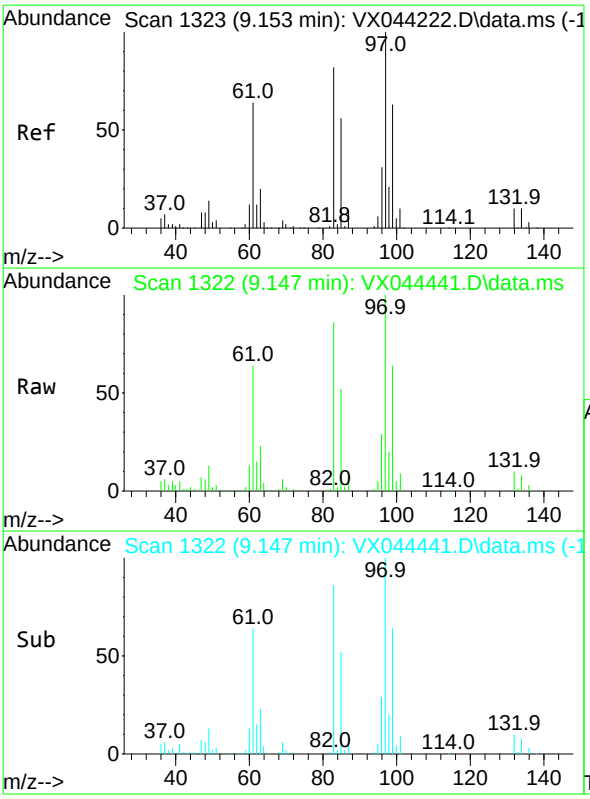


#54
cis-1,3-Dichloropropene
Concen: 19.157 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 48359

Ion	Ratio	Lower	Upper
75	100		
77	29.6	24.7	37.1
39	51.1	40.3	60.5

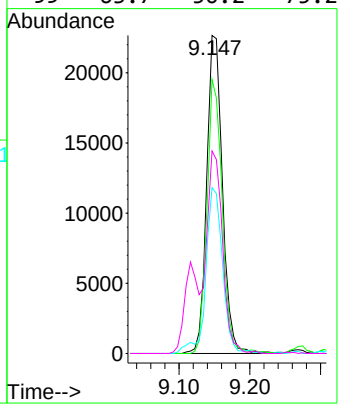




#55
1,1,2-Trichloroethane
Concen: 20.801 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 97 Resp: 35148

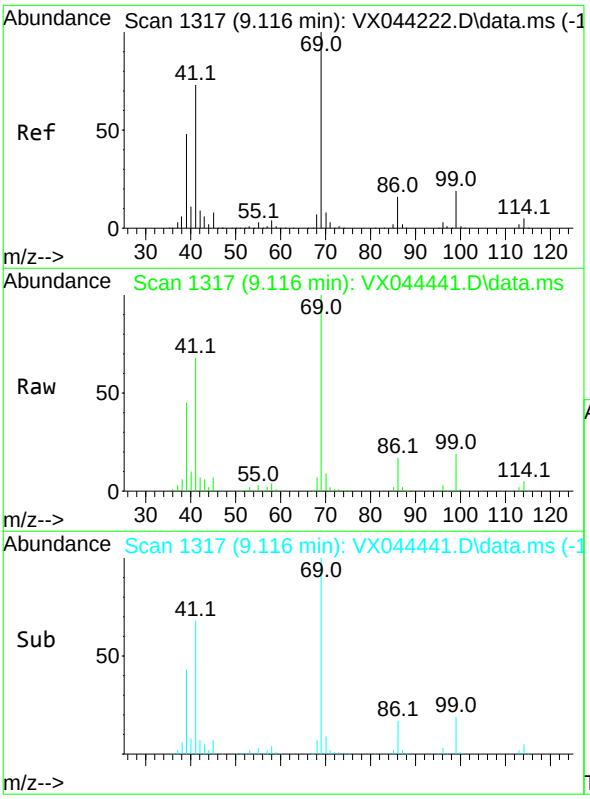
Ion	Ratio	Lower	Upper
97	100		
83	86.1	65.3	97.9
85	51.7	44.6	67.0
99	63.7	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

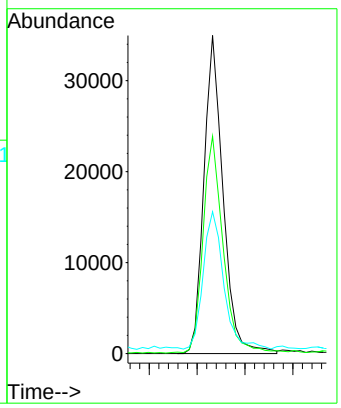
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

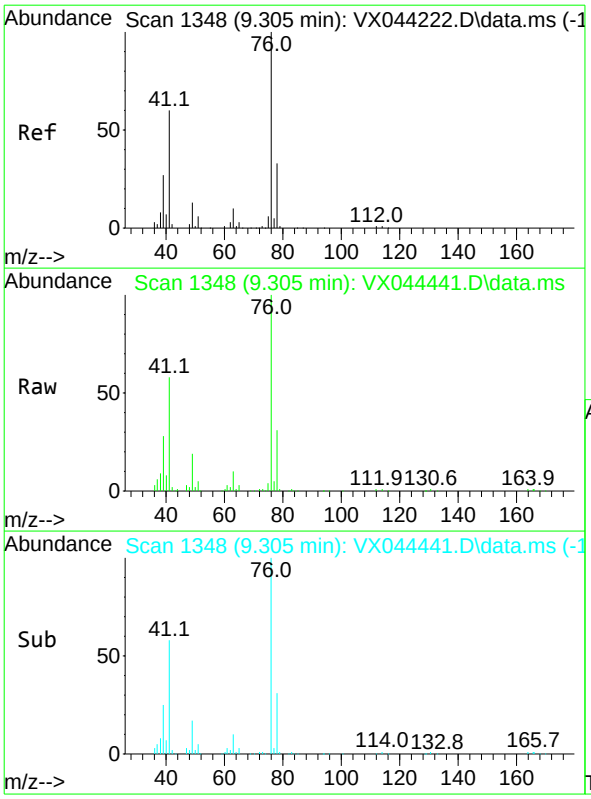


#56
Ethyl methacrylate
Concen: 18.235 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 69 Resp: 48642

Ion	Ratio	Lower	Upper
69	100		
41	71.0	56.6	85.0
39	46.3	37.4	56.0

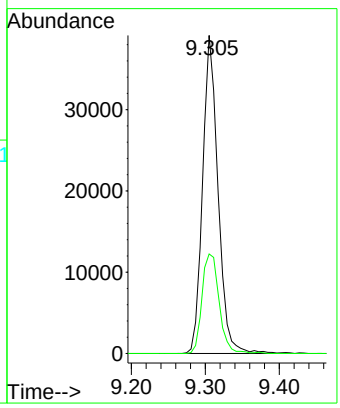




#57
1,3-Dichloropropane
Concen: 19.260 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 76 Resp: 56644

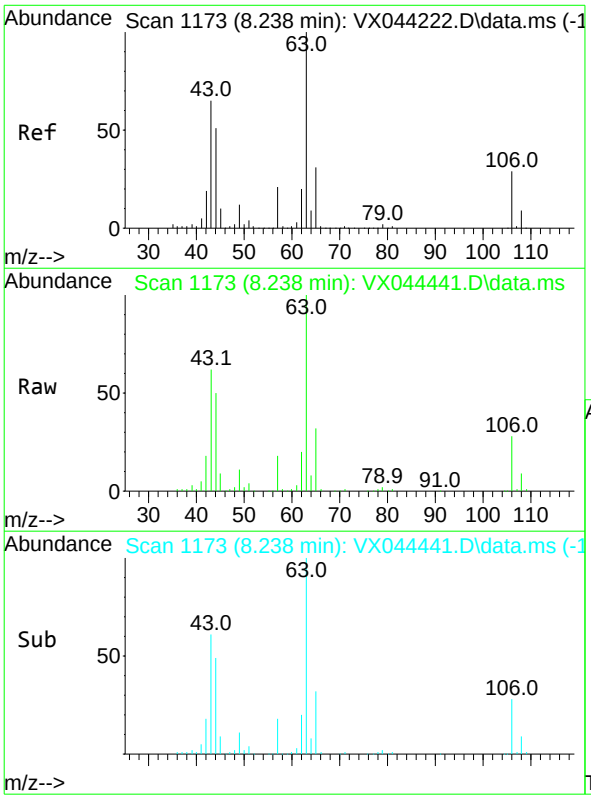
Ion	Ratio	Lower	Upper
76	100		
78	34.8	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

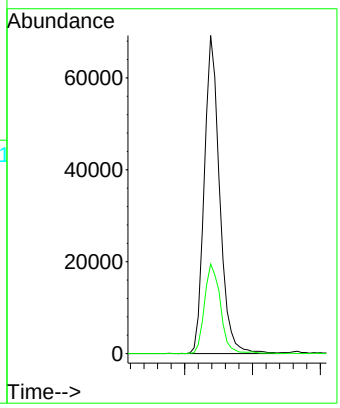
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

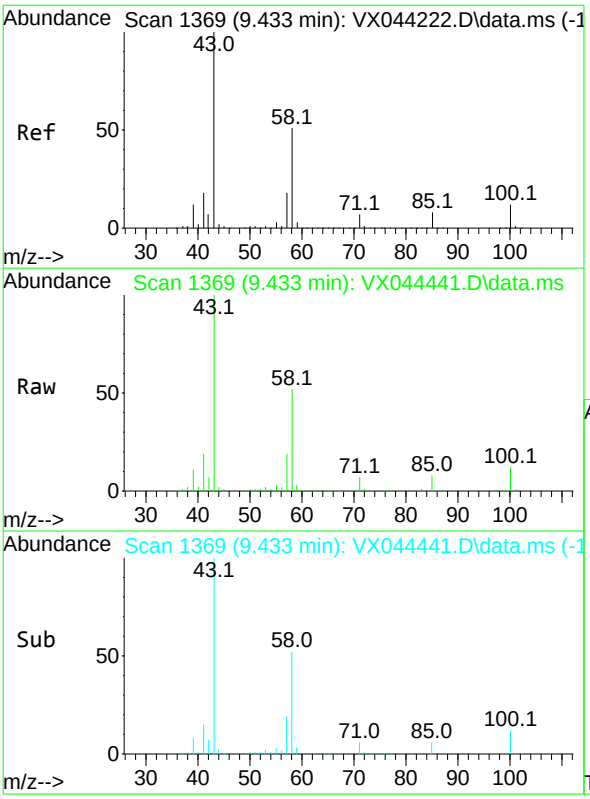


#58
2-Chloroethyl Vinyl ether
Concen: 81.033 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 63 Resp: 109022

Ion	Ratio	Lower	Upper
63	100		
106	29.3	22.8	34.2





#59
2-Hexanone
Concen: 90.356 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

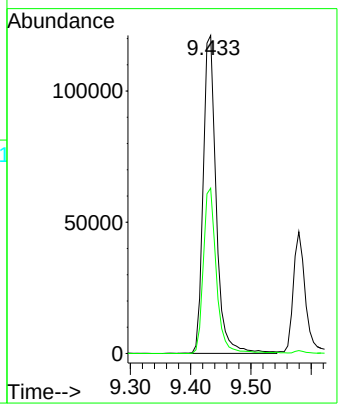
Tgt Ion: 43 Resp: 181241

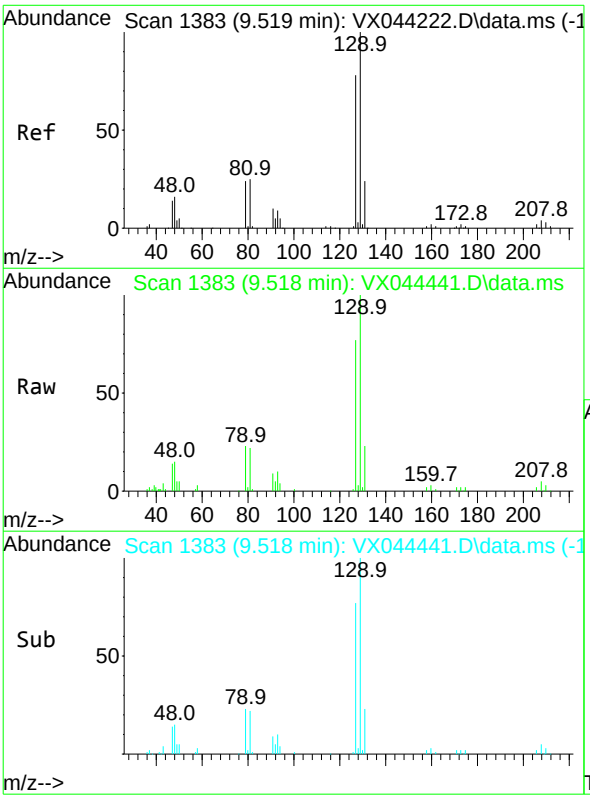
Ion	Ratio	Lower	Upper
43	100		
58	52.2	25.7	77.0

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

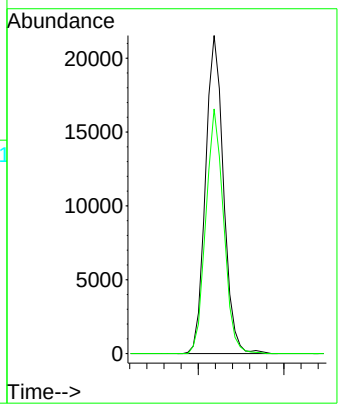


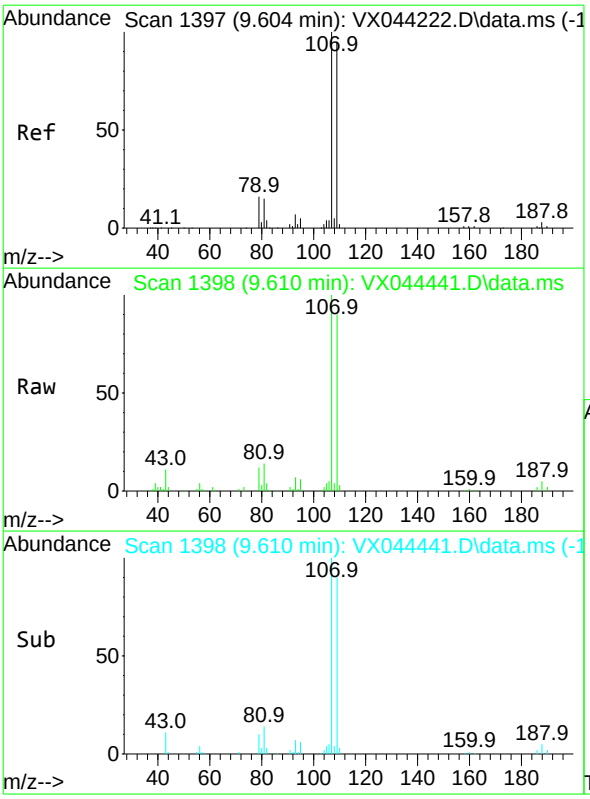


#60
Dibromochloromethane
Concen: 18.848 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:129 Resp: 31411

Ion	Ratio	Lower	Upper
129	100		
127	75.9	38.5	115.3

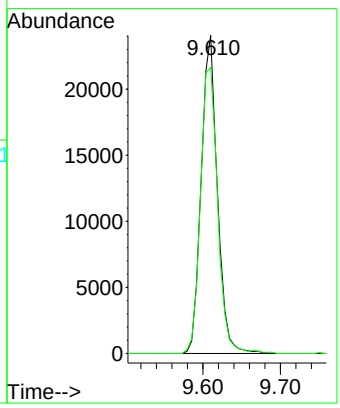




#61
1,2-Dibromoethane
Concen: 20.234 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:107 Resp: 34801

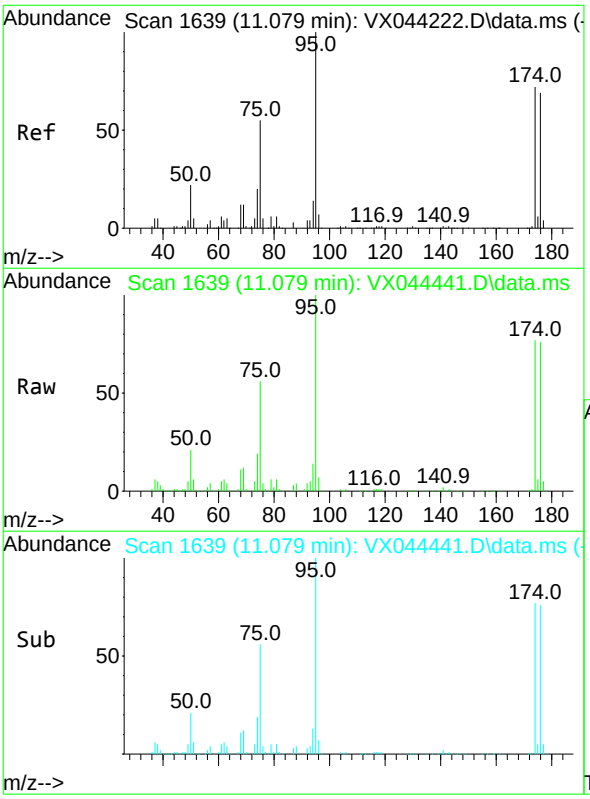
Ion	Ratio	Lower	Upper
107	100		
109	96.1	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

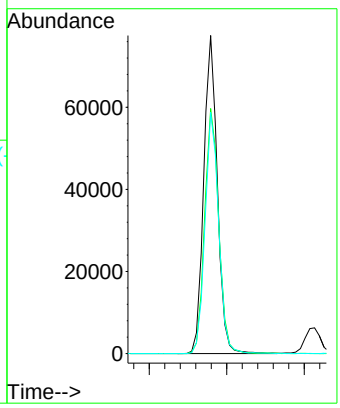
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

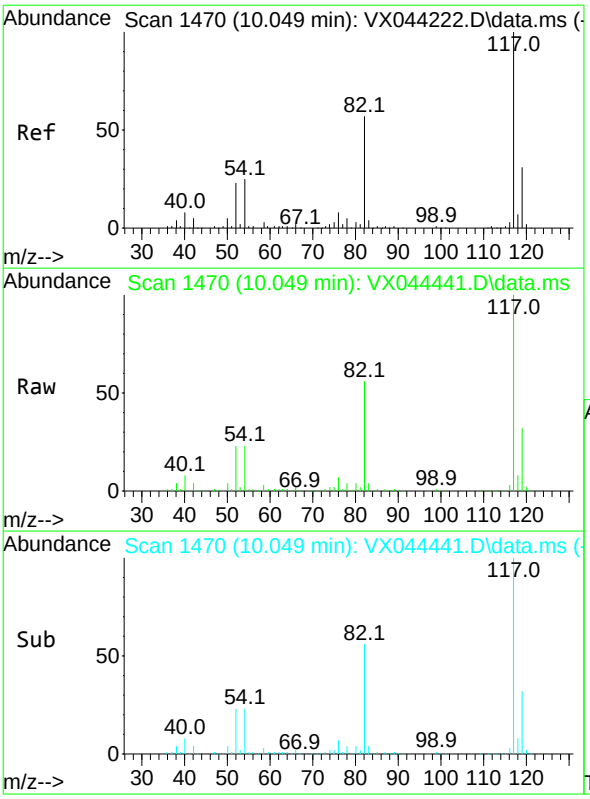


#62
4-Bromofluorobenzene
Concen: 46.443 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 95 Resp: 94485

Ion	Ratio	Lower	Upper
95	100		
174	79.5	0.0	145.8
176	76.2	0.0	137.8

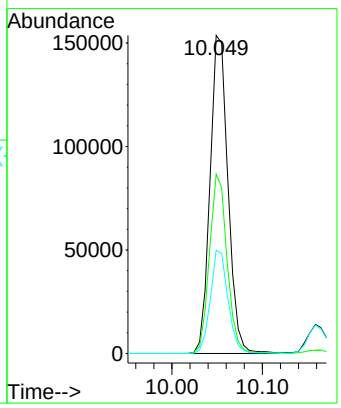




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:117 Resp: 212384

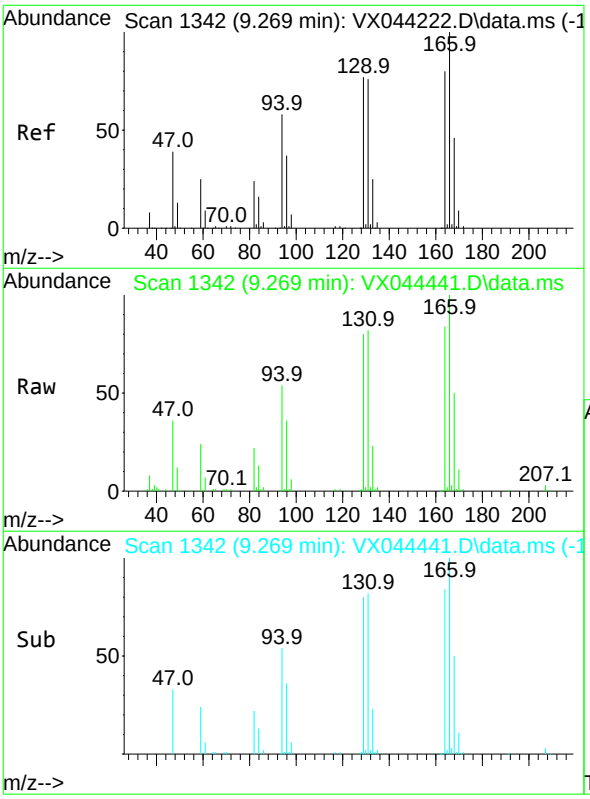
Ion	Ratio	Lower	Upper
117	100		
82	56.4	45.8	68.8
119	32.5	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

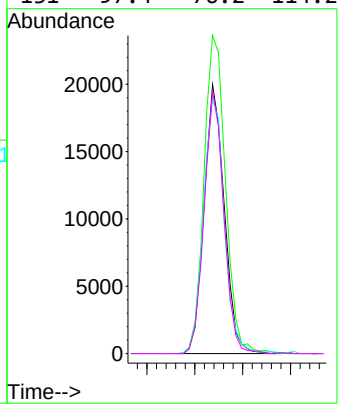
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

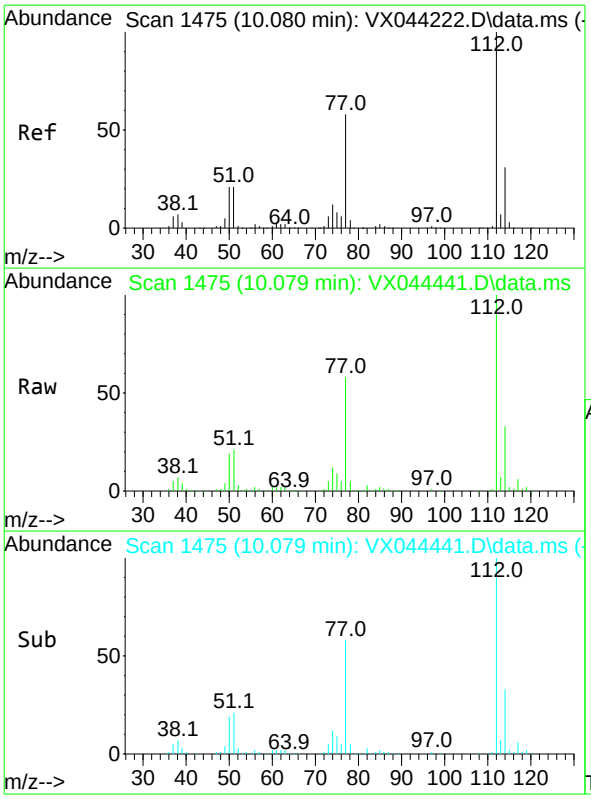


#64
Tetrachloroethene
Concen: 20.762 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:164 Resp: 29267

Ion	Ratio	Lower	Upper
164	100		
166	118.4	100.4	150.6
129	94.7	77.2	115.8
131	97.4	76.2	114.2





#65
Chlorobenzene
Concen: 19.906 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

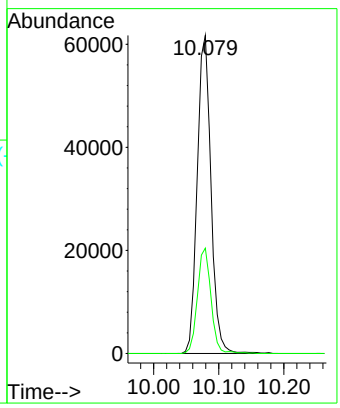
Tgt Ion:112 Resp: 90589

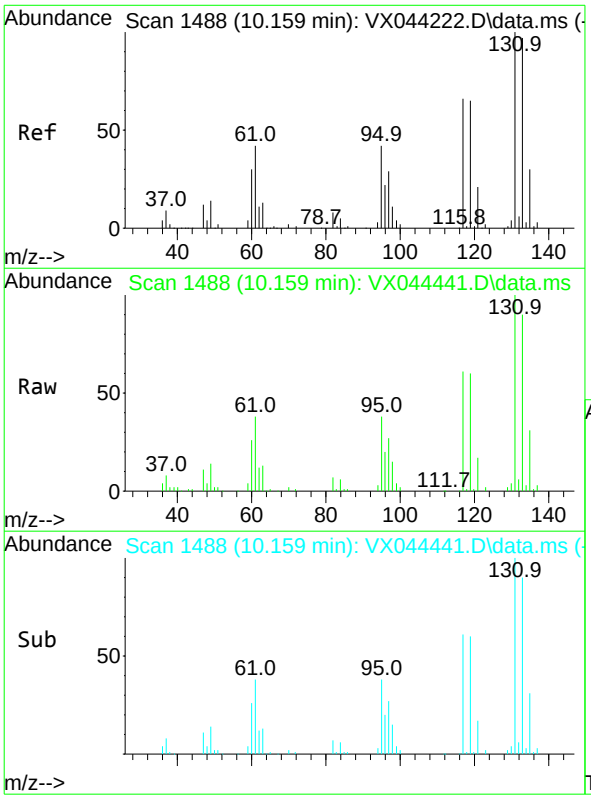
Ion	Ratio	Lower	Upper
112	100		
114	33.1	25.0	37.6

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

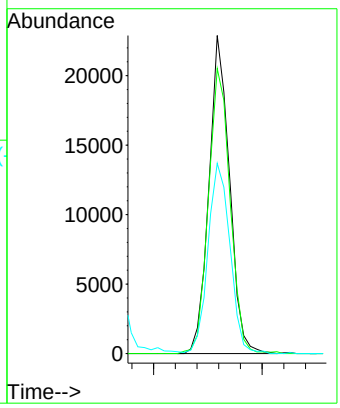


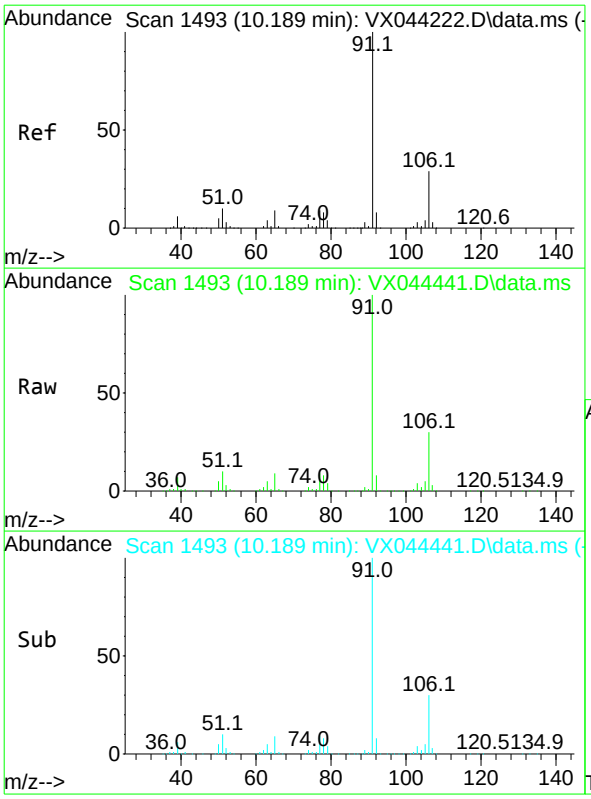


#66
1,1,1,2-Tetrachloroethane
Concen: 20.643 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:131 Resp: 30193

Ion	Ratio	Lower	Upper
131	100		
133	93.9	47.3	141.8
119	63.9	31.6	95.0

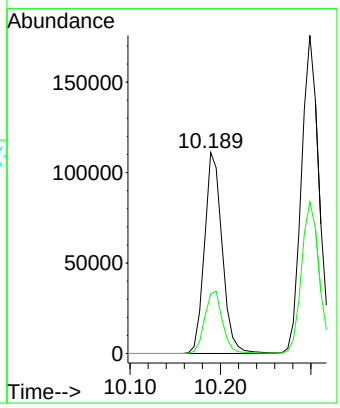




#67
Ethyl Benzene
Concen: 19.217 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 151105

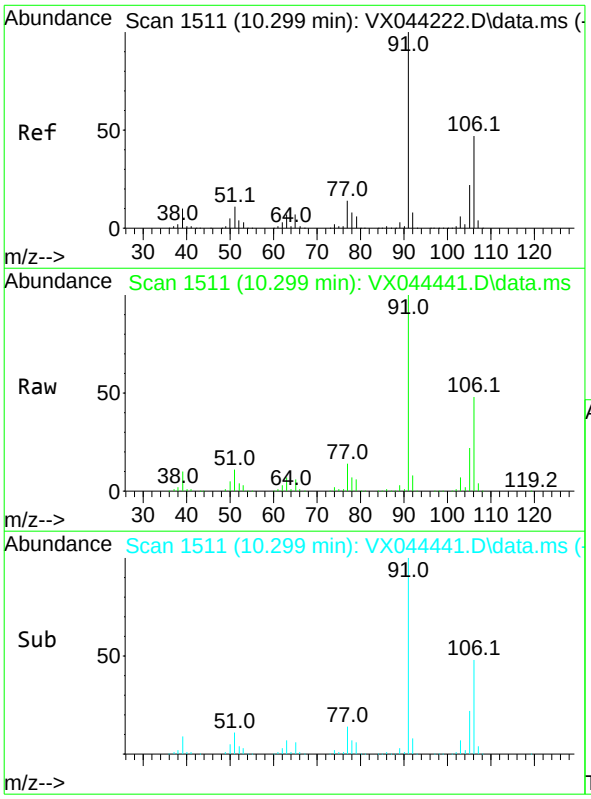
Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

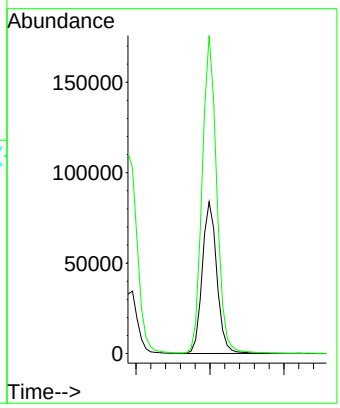
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

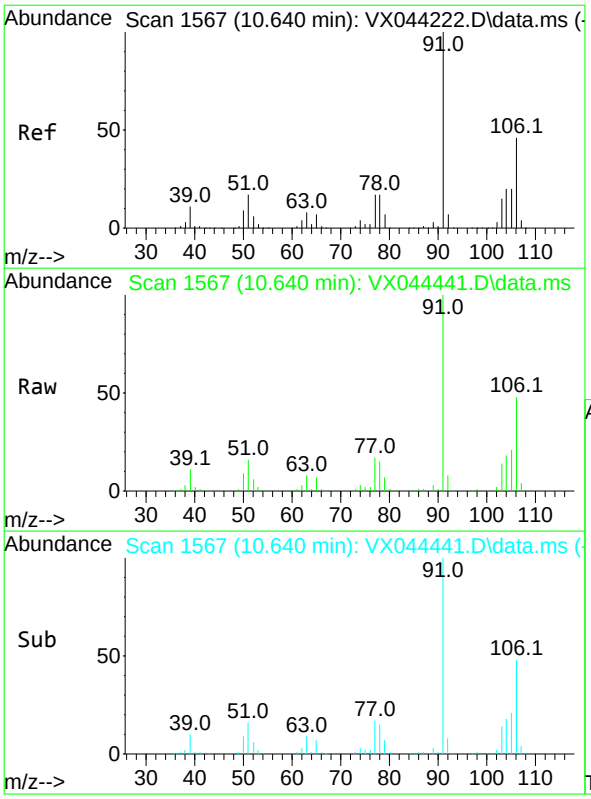


#68
m/p-Xylenes
Concen: 39.825 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:106 Resp: 114910

Ion	Ratio	Lower	Upper
106	100		
91	208.6	170.2	255.2

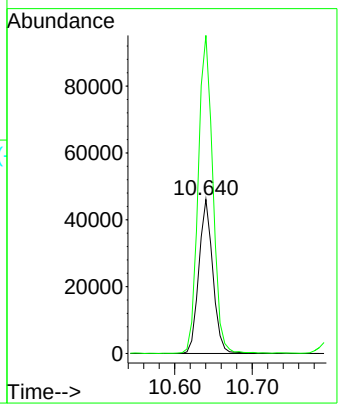




#69
o-Xylene
Concen: 19.797 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:106 Resp: 57794

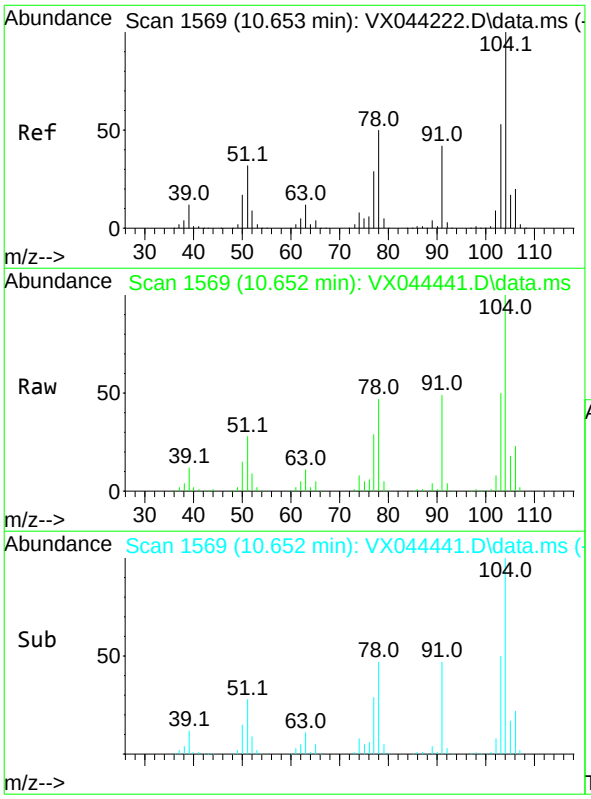
Ion	Ratio	Lower	Upper
106	100		
91	216.0	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

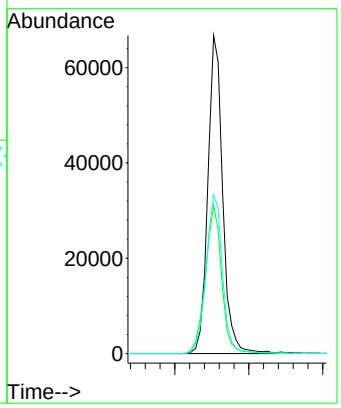
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

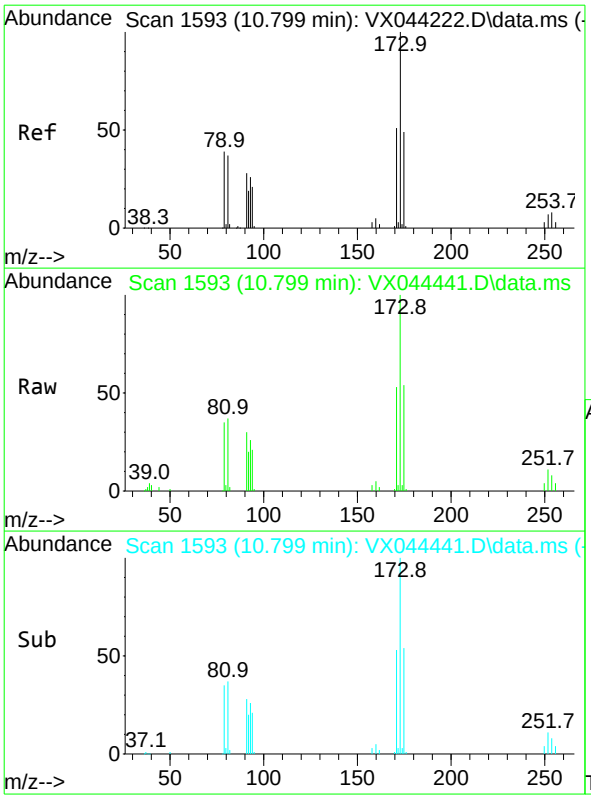


#70
Styrene
Concen: 19.825 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:104 Resp: 92784

Ion	Ratio	Lower	Upper
104	100		
78	51.2	44.6	67.0
103	55.0	45.4	68.0

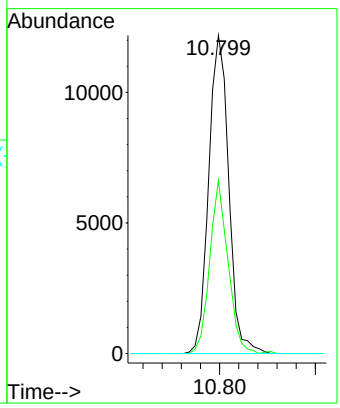




#71
Bromoform
Concen: 19.275 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:173 Resp: 17659

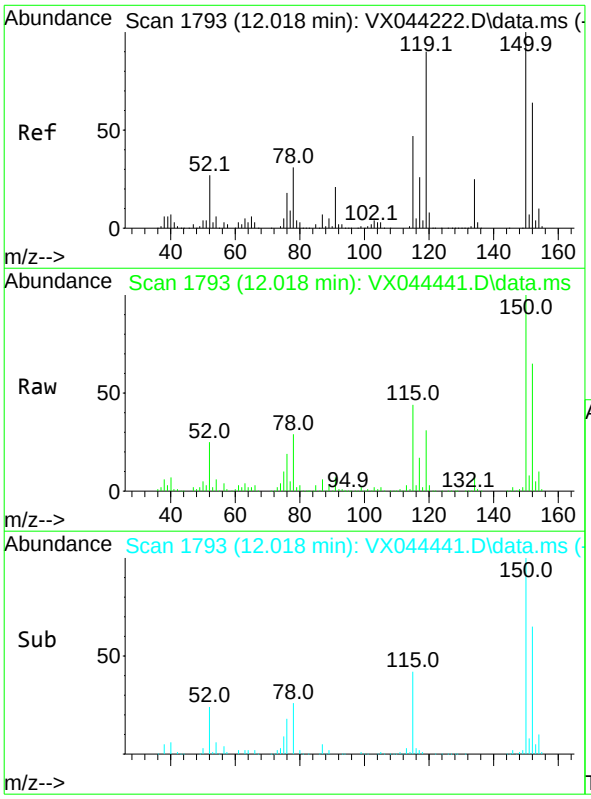
Ion	Ratio	Lower	Upper
173	100		
175	49.7	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

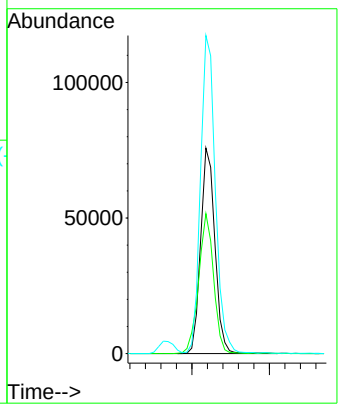
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

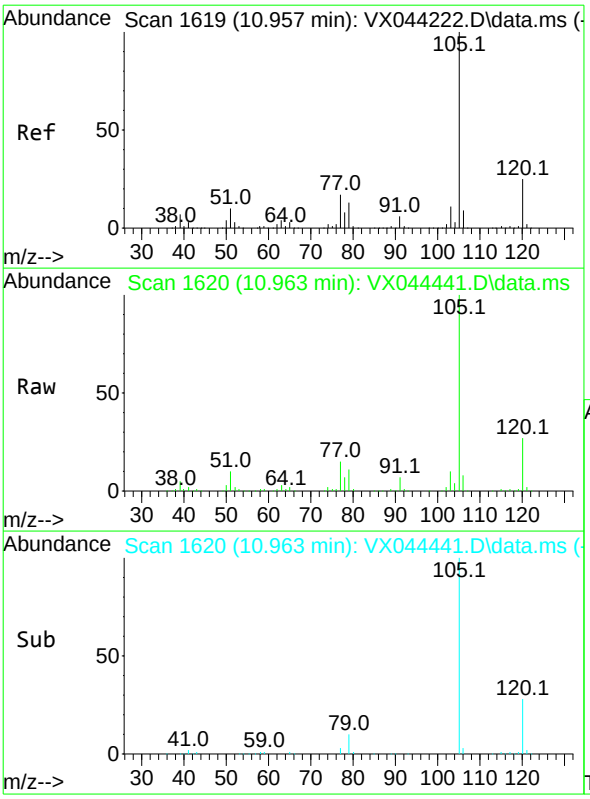


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:152 Resp: 96885

Ion	Ratio	Lower	Upper
152	100		
115	71.2	44.5	133.3
150	160.7	0.0	353.8

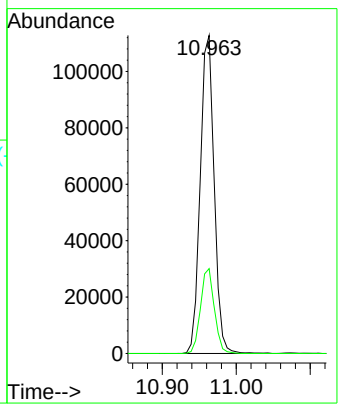




#73
Isopropylbenzene
Concen: 19.872 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:105 Resp: 147393

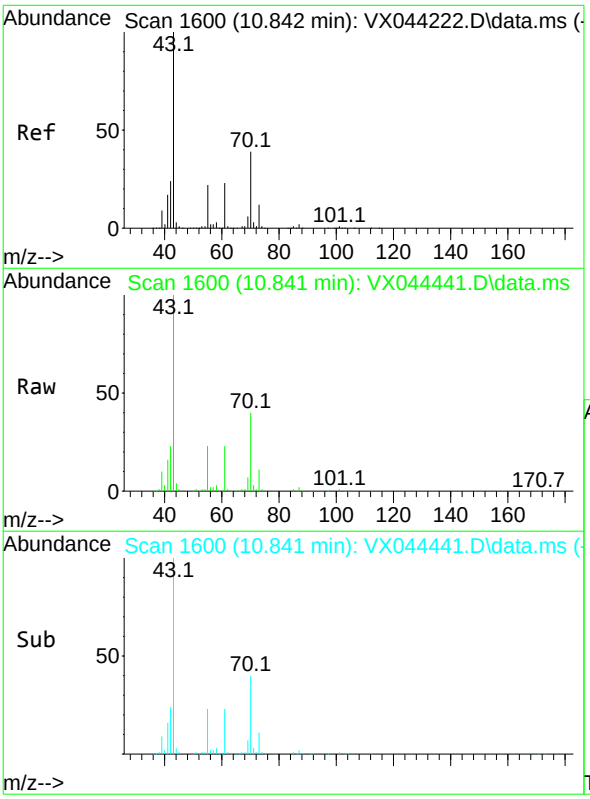
Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

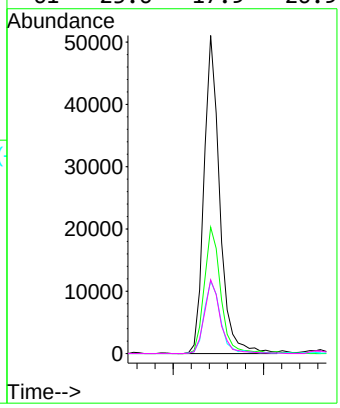
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

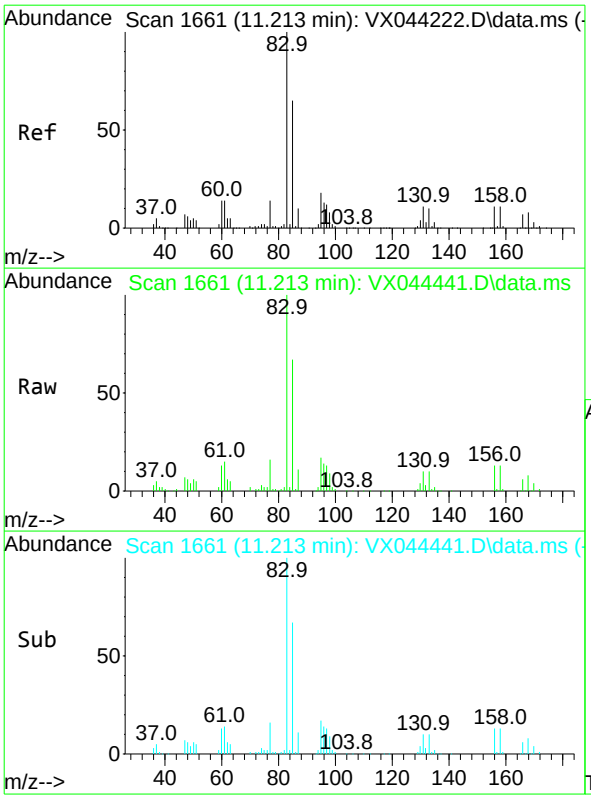


#74
N-amyl acetate
Concen: 18.038 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 61829

Ion	Ratio	Lower	Upper
43	100		
70	41.5	31.9	47.9
55	23.7	17.9	26.9
61	23.6	17.9	26.9





#75
1,1,2,2-Tetrachloroethane
Concen: 19.570 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

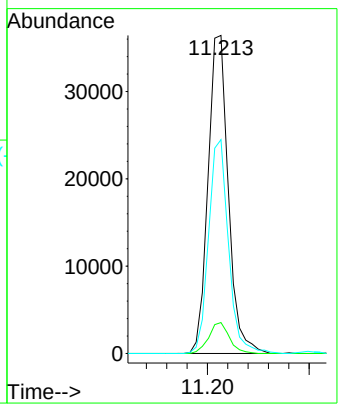
Tgt Ion: 83 Resp: 50416

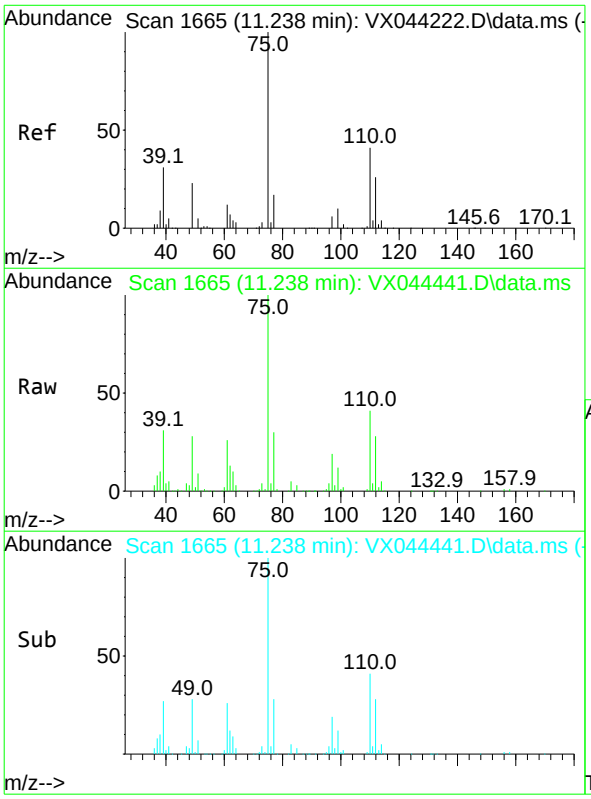
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	65.9	32.5	97.4

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

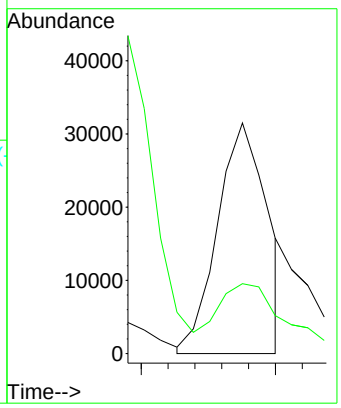


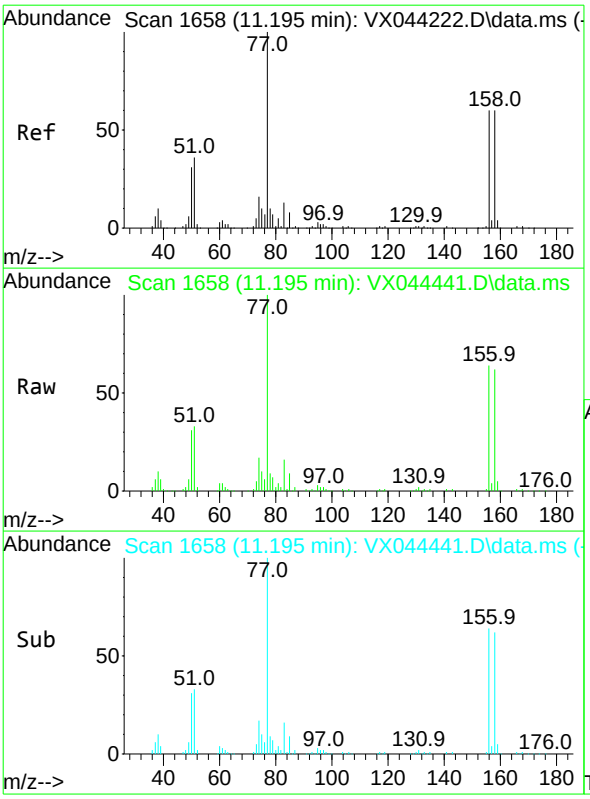


#76
1,2,3-Trichloropropane
Concen: 18.784 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 40633

Ion	Ratio	Lower	Upper
75	100		
77	42.0	20.9	62.7

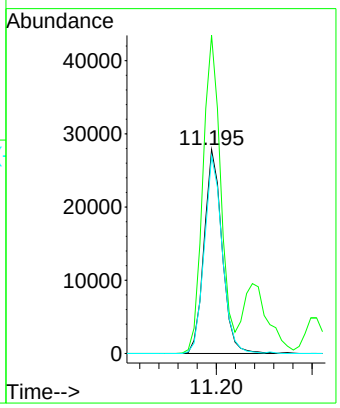




#77
Bromobenzene
Concen: 20.145 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:156 Resp: 36233

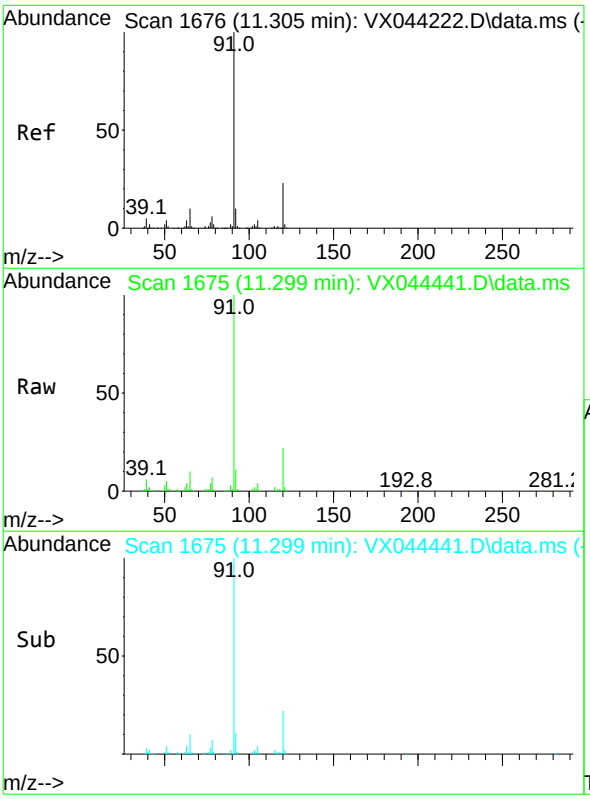
Ion	Ratio	Lower	Upper
156	100		
77	155.2	82.6	247.8
158	96.9	48.8	146.4



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

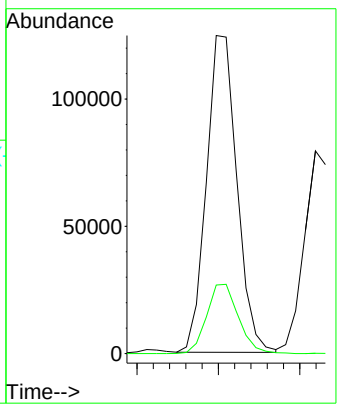
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

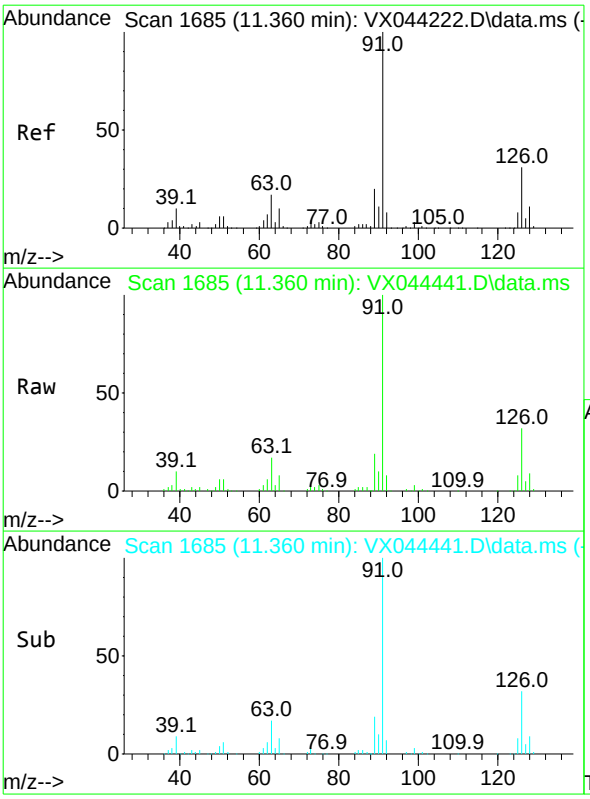


#78
n-propylbenzene
Concen: 19.765 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 162028

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.0	33.0

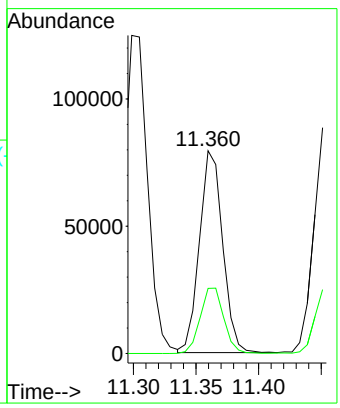




#79
2-Chlorotoluene
Concen: 19.279 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 102209

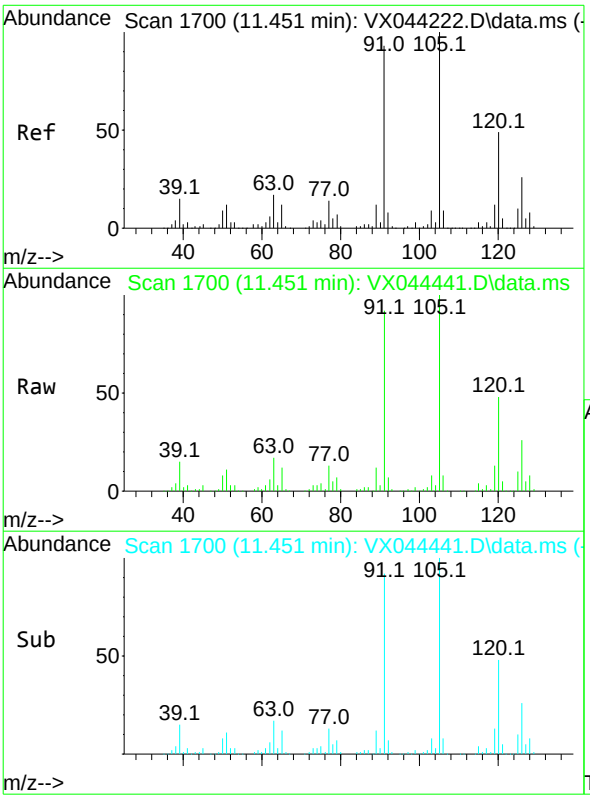
Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

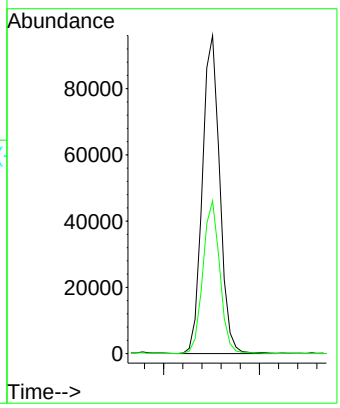
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

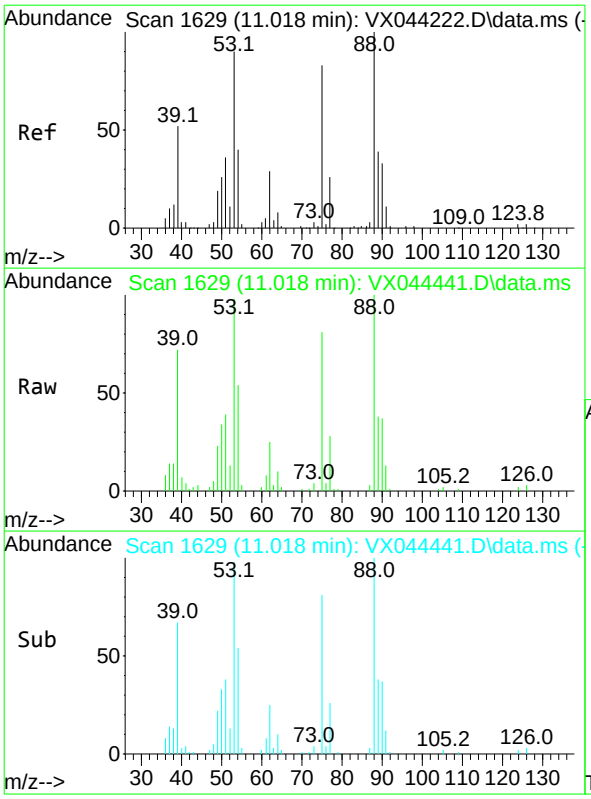


#80
1,3,5-Trimethylbenzene
Concen: 19.709 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:105 Resp: 121225

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.8	71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 18.609 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

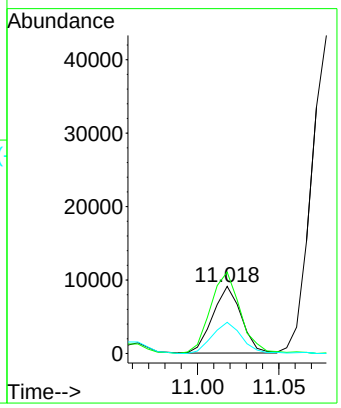
Tgt Ion: 75 Resp: 11072

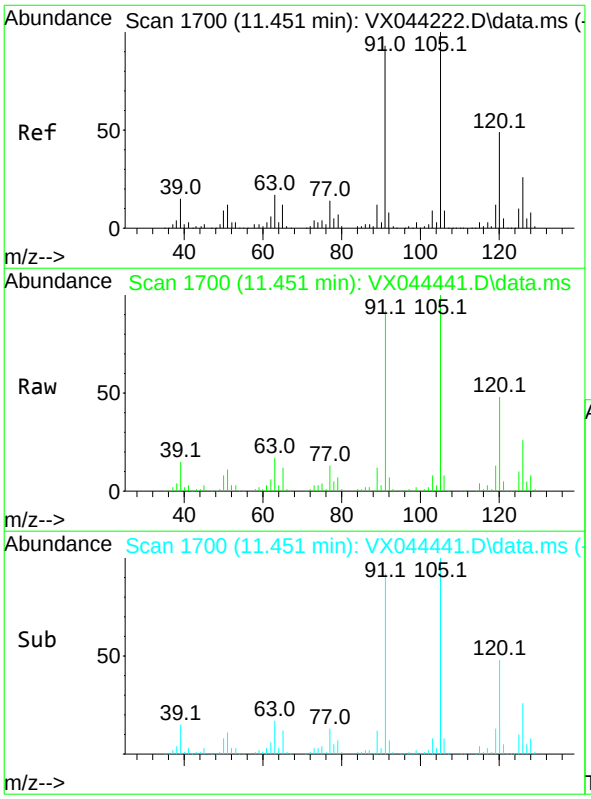
Ion	Ratio	Lower	Upper
75	100		
53	129.5	93.6	140.4
89	48.5	37.3	55.9

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

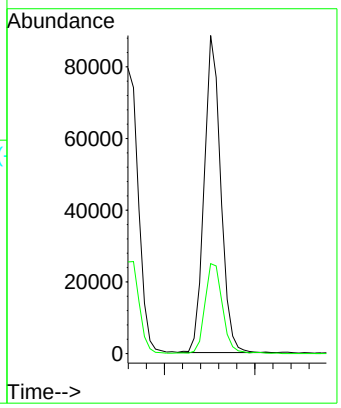


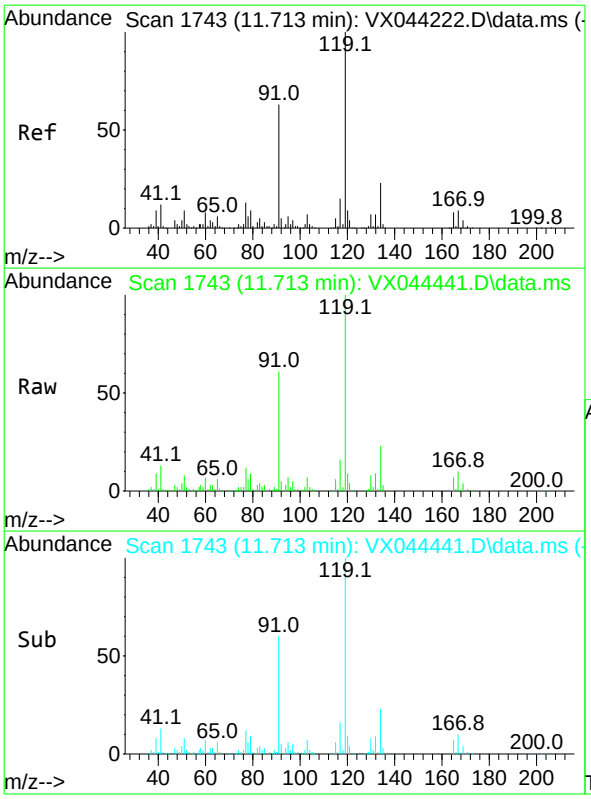


#82
4-Chlorotoluene
Concen: 19.122 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 112263

Ion	Ratio	Lower	Upper
91	100		
126	30.4	14.5	43.5

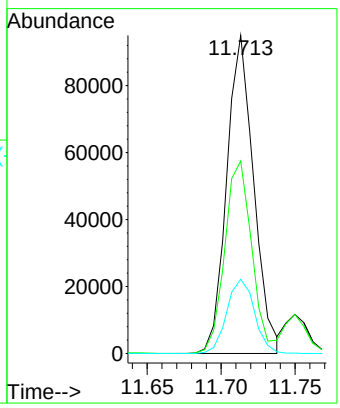




#83
tert-Butylbenzene
Concen: 19.827 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:119 Resp: 120518

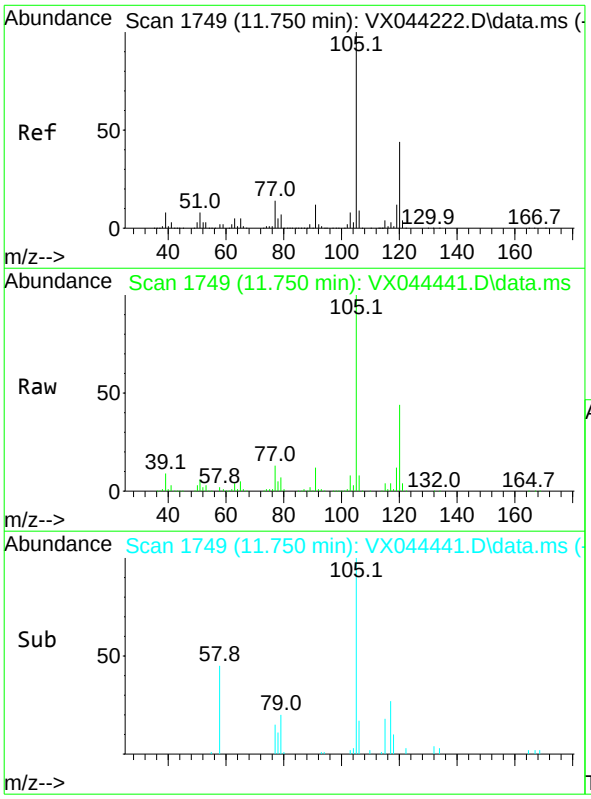
Ion	Ratio	Lower	Upper
119	100		
91	61.1	30.9	92.5
134	23.9	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

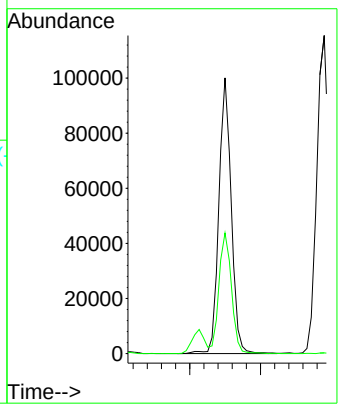
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

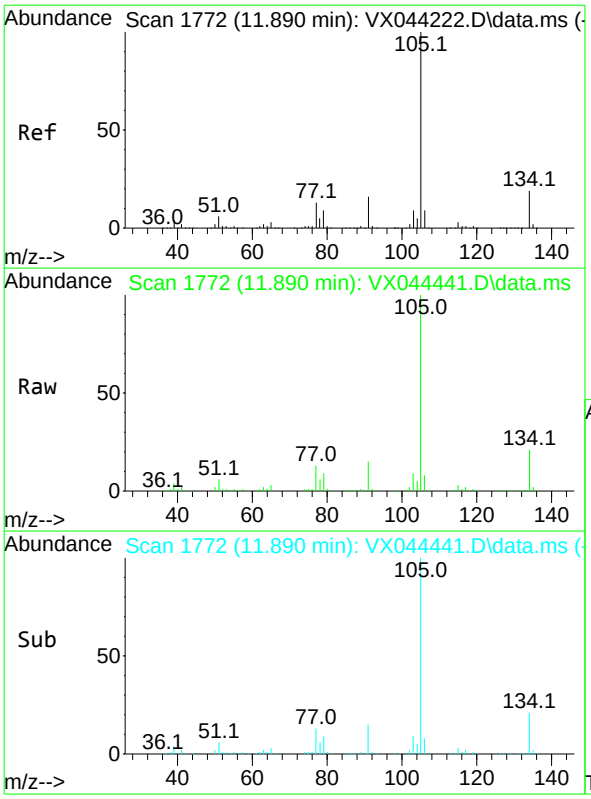


#84
1,2,4-Trimethylbenzene
Concen: 20.085 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:105 Resp: 121322

Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.7	65.1

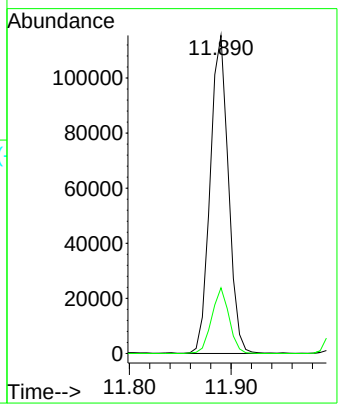




#85
sec-Butylbenzene
Concen: 19.477 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:105 Resp: 143732

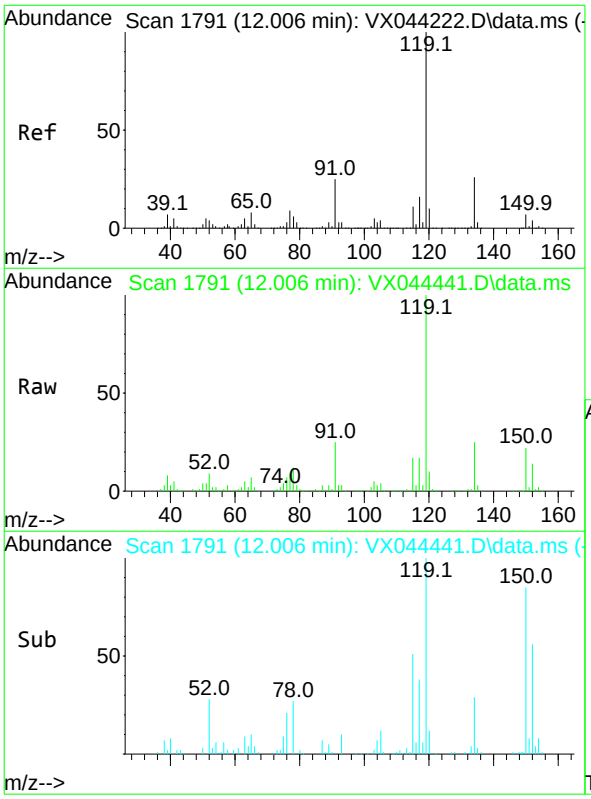
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

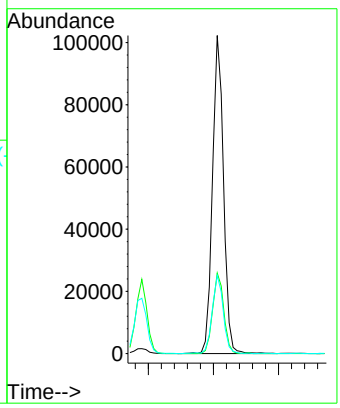
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

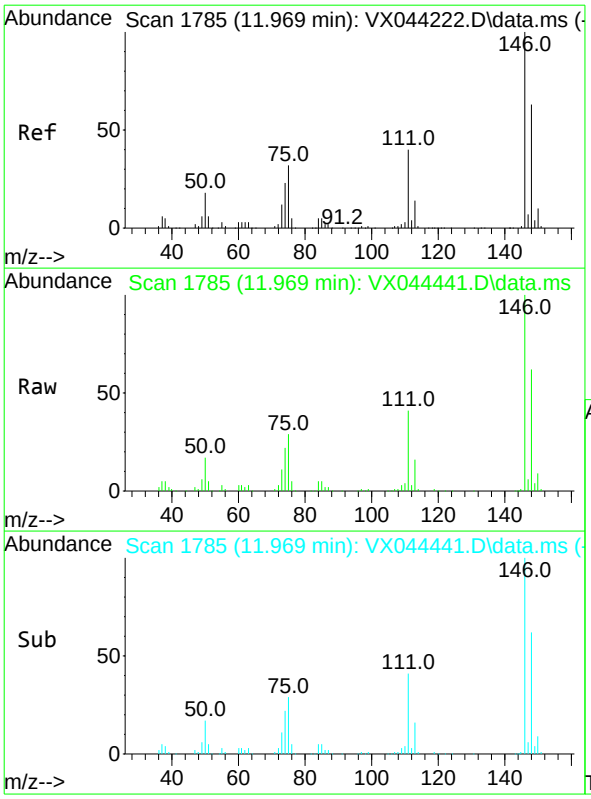


#86
p-Isopropyltoluene
Concen: 19.596 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:119 Resp: 120356

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.8	38.4
91	24.7	13.0	39.0

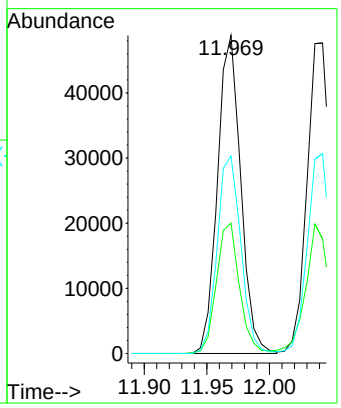




#87
1,3-Dichlorobenzene
Concen: 20.058 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:146 Resp: 63016

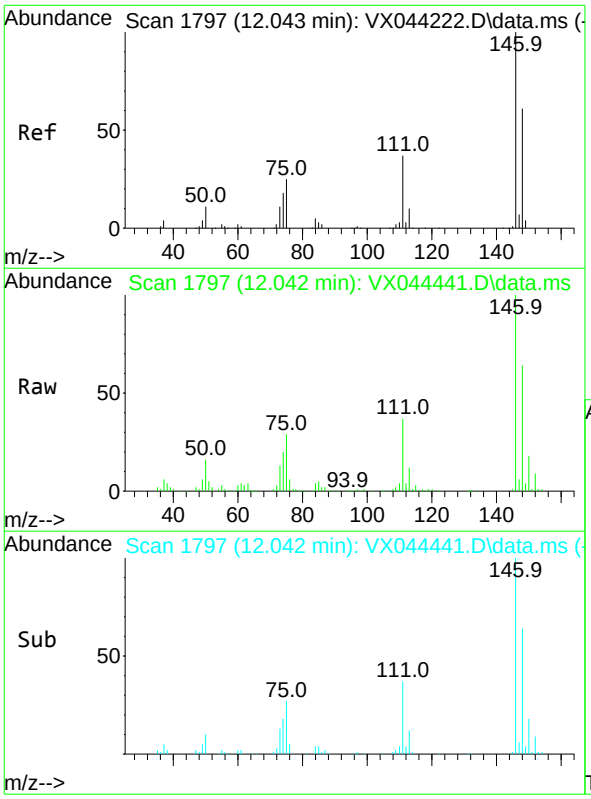
Ion	Ratio	Lower	Upper
146	100		
111	40.6	21.4	64.2
148	63.0	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

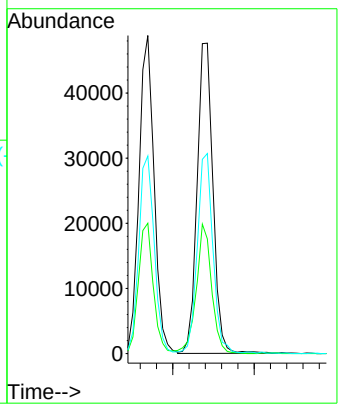
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

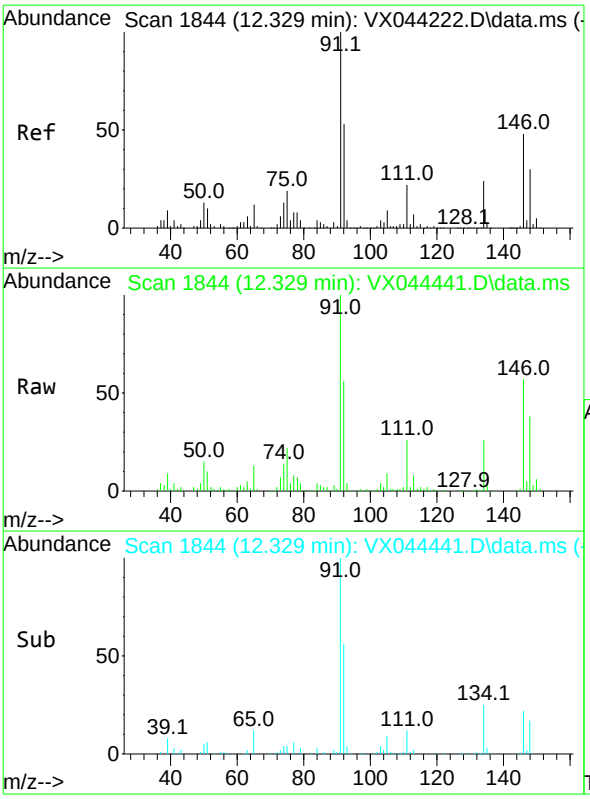


#88
1,4-Dichlorobenzene
Concen: 19.954 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:146 Resp: 64444

Ion	Ratio	Lower	Upper
146	100		
111	40.5	21.0	63.0
148	63.0	32.3	96.8





#89
n-Butylbenzene
Concen: 18.279 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

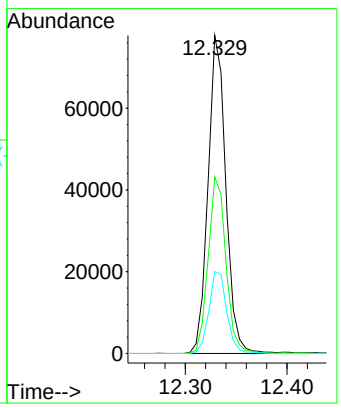
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

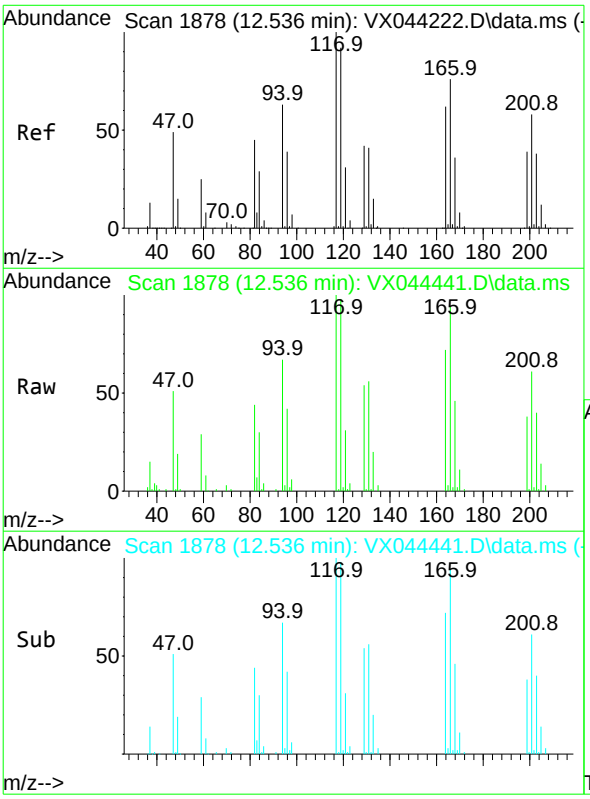
Tgt Ion: 91 Resp: 94402

Ion	Ratio	Lower	Upper
91	100		
92	55.5	26.6	79.7
134	25.9	12.6	37.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

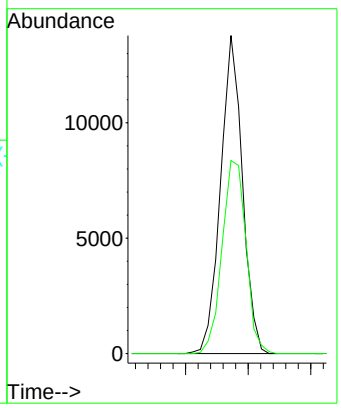


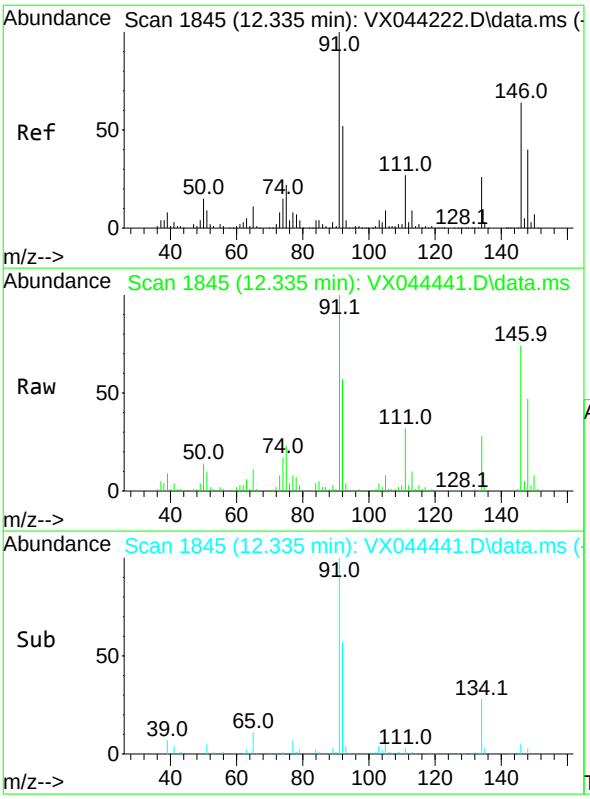


#90
Hexachloroethane
Concen: 18.640 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:117 Resp: 16712

Ion	Ratio	Lower	Upper
117	100		
201	66.5	31.4	94.2

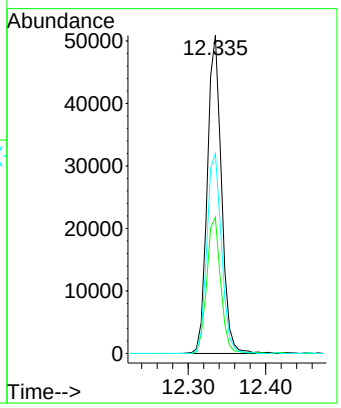




#91
1,2-Dichlorobenzene
Concen: 19.798 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:146 Resp: 64584

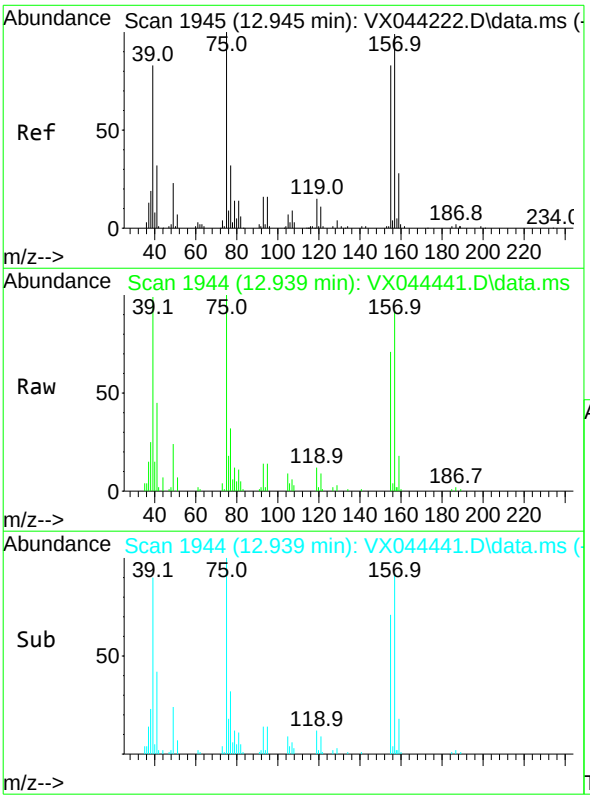
Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.4	64.3
148	64.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

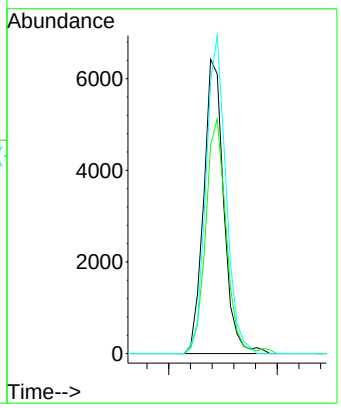
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

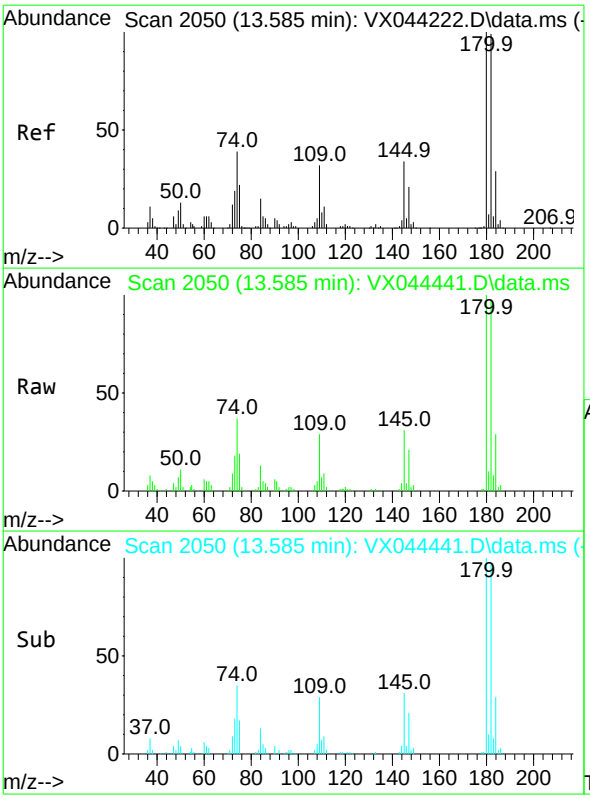


#92
1,2-Dibromo-3-Chloropropane
Concen: 16.523 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 8263

Ion	Ratio	Lower	Upper
75	100		
155	81.6	38.1	114.3
157	107.5	47.2	141.6





#93
1,2,4-Trichlorobenzene
Concen: 19.470 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

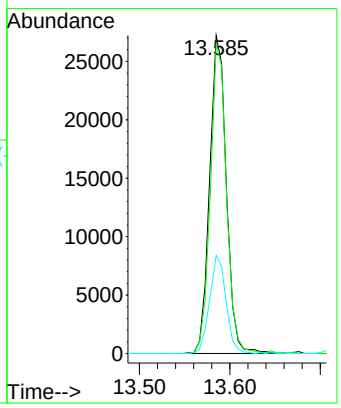
Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

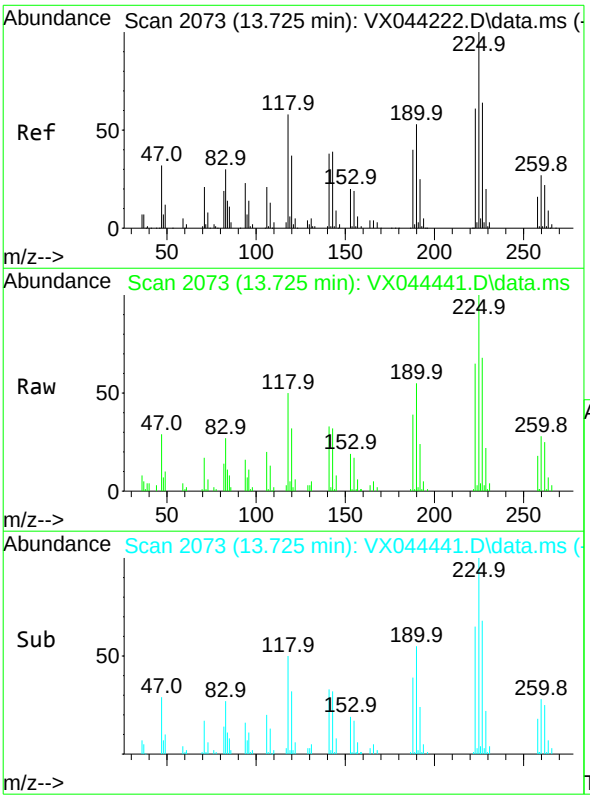
Tgt Ion:180 Resp: 34820

Ion	Ratio	Lower	Upper
180	100		
182	94.3	48.0	144.2
145	30.4	16.6	49.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

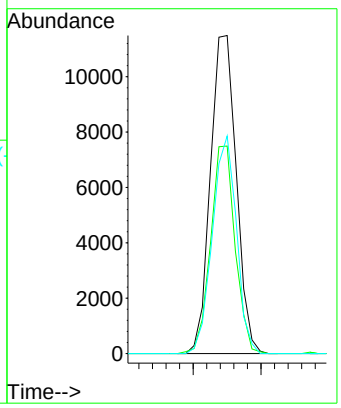


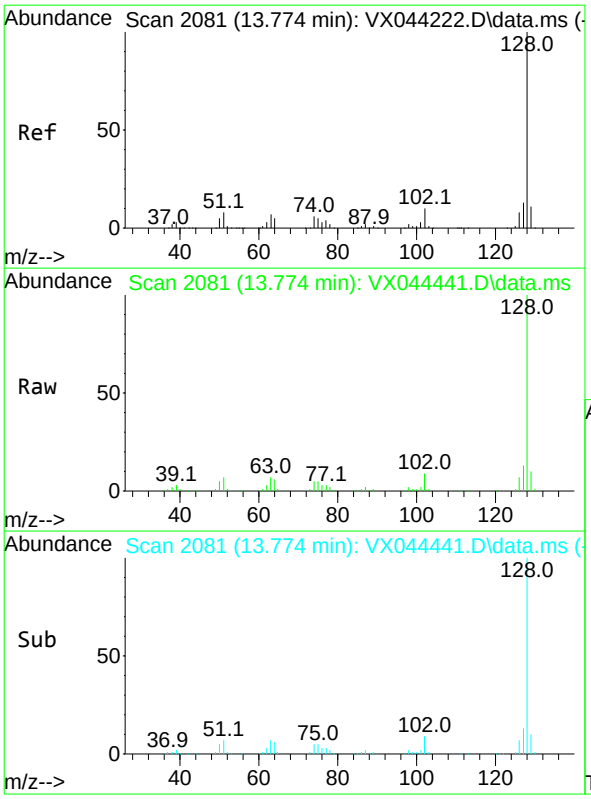


#94
Hexachlorobutadiene
Concen: 21.174 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:225 Resp: 15232

Ion	Ratio	Lower	Upper
225	100		
223	62.0	30.8	92.4
227	63.6	32.1	96.3





#95
Naphthalene
Concen: 17.830 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

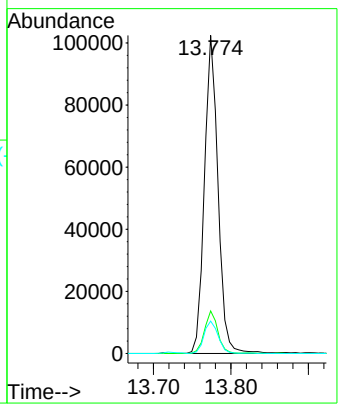
Tgt Ion:128 Resp: 124472

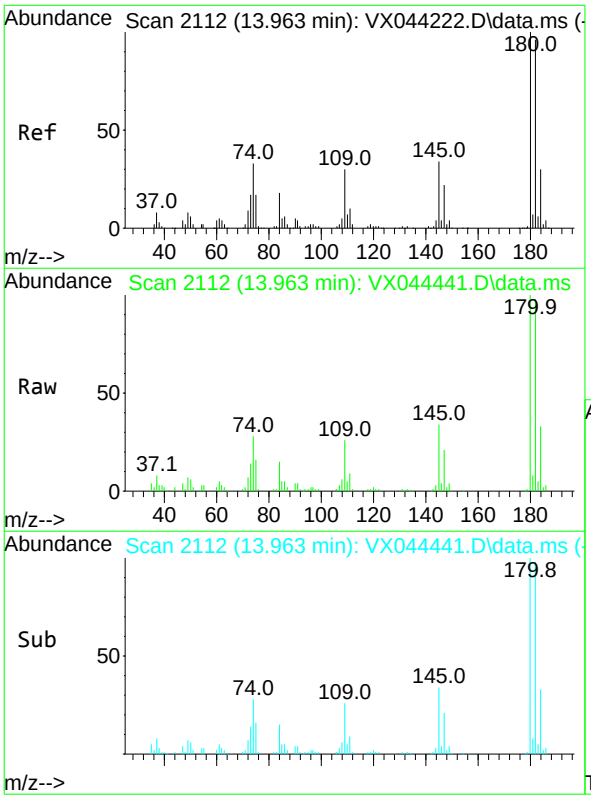
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.7	9.0	13.4

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

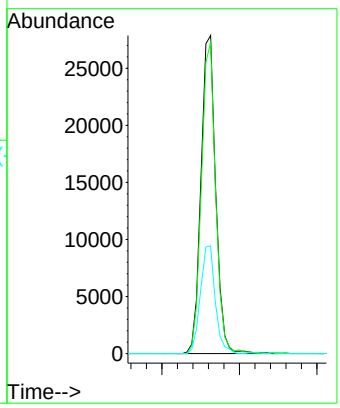




#96
1,2,3-Trichlorobenzene
Concen: 19.378 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:180 Resp: 36757

Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.0	144.0
145	34.2	17.7	53.1



Raw Data: **VX044469.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1223WBS01	SDG No.:	P5317
Lab Sample ID:	VX1223WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044469.D	1		12/23/24 11:04	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	21.6		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	19.6		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.3		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	18.3		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	17.0		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.0		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.8		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.8		0.26	0.75	1.00	ug/L
67-64-1	Acetone	93.4		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	17.0		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.8		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	18.3		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	18.6		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.4		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.0		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	21.1		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	88.4		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	22.2		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.5		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	13.5		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	18.2		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.8		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	25.3		0.19	0.50	1.00	ug/L
71-43-2	Benzene	23.2		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.6		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	23.9		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.8		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	21.2		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	97.5		0.75	2.50	5.00	ug/L
108-88-3	Toluene	22.1		0.18	0.50	1.00	ug/L

Raw Data: **VX044469.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1223WBS01	SDG No.:	P5317
Lab Sample ID:	VX1223WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044469.D	1		12/23/24 11:04	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.7		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.2		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.6		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	97.6		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	19.6		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.9		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	26.5		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	22.9		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	21.9		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	45.9		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	22.8		0.14	0.50	1.00	ug/L
100-42-5	Styrene	22.0		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	21.6		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	23.0		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	22.3		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	23.5		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	22.7		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	23.1		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.9		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	24.2		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	23.0		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.0		81 - 118		88%	SPK: 50
1868-53-7	Dibromofluoromethane	54.2		80 - 119		108%	SPK: 50
2037-26-5	Toluene-d8	56.2		89 - 112		112%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.4		85 - 114		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	95800	5.544				
540-36-3	1,4-Difluorobenzene	151000	6.757				
3114-55-4	Chlorobenzene-d5	127000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	57900	12.018				

Raw Data: **VX044469.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1223WBS01	SDG No.:	P5317
Lab Sample ID:	VX1223WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044469.D	1		12/23/24 11:04	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044469.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044469.D
Acq On : 23 Dec 2024 11:04
Operator : JC/MD
Sample : VX1223WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 23 21:52:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	95798	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	150710	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	126811	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57944	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	73927	44.013	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 88.020%			
35) Dibromofluoromethane	5.373	113	56562	54.188	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.380%			
50) Toluene-d8	8.641	98	198030	56.235	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 112.460%			
62) 4-Bromofluorobenzene	11.079	95	65766	53.447	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	32007	21.608	ug/l	96
3) Chloromethane	1.294	50	27774	19.607	ug/l	99
4) Vinyl Chloride	1.374	62	27016	18.307	ug/l	98
5) Bromomethane	1.599	94	19188	18.328	ug/l	97
6) Chloroethane	1.666	64	15580	16.955	ug/l	100
7) Trichlorofluoromethane	1.867	101	51943	17.979	ug/l	99
8) Diethyl Ether	2.136	74	16859	17.096	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	25530	21.838	ug/l	97
10) Methyl Iodide	2.447	142	28656	18.599	ug/l	93
11) Tert butyl alcohol	2.989	59	7612	32.156	ug/l #	71
12) 1,1-Dichloroethene	2.306	96	22330	20.796	ug/l	97
13) Acrolein	2.233	56	29440	85.915	ug/l	100
14) Allyl chloride	2.654	41	33412	18.681	ug/l	97
15) Acrylonitrile	3.062	53	61753	94.174	ug/l	99
16) Acetone	2.386	43	63969	93.417	ug/l	95
17) Carbon Disulfide	2.501	76	34775	17.037	ug/l	98
18) Methyl Acetate	2.703	43	32226	18.252	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	74398	17.755	ug/l	99
20) Methylene Chloride	2.788	84	23939	18.613	ug/l	94
21) trans-1,2-Dichloroethene	3.087	96	22128	19.390	ug/l	88
22) Diisopropyl ether	3.757	45	72980	18.121	ug/l	91
23) Vinyl Acetate	3.715	43	302197	92.293	ug/l	98
24) 1,1-Dichloroethane	3.605	63	42670	19.007	ug/l	98
25) 2-Butanone	4.556	43	86105	88.449	ug/l	100
26) 2,2-Dichloropropane	4.465	77	37546	20.587	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	26814	18.501	ug/l	98
28) Bromochloromethane	4.897	49	14914	13.548	ug/l	96
29) Tetrahydrofuran	5.007	42	52223	83.576	ug/l	99
30) Chloroform	5.086	83	46014	18.243	ug/l	98
31) Cyclohexane	5.452	56	38325	21.141	ug/l	91
32) 1,1,1-Trichloroethane	5.373	97	41484	19.813	ug/l	99
36) 1,1-Dichloropropene	5.684	75	30587	22.670	ug/l	98
37) Ethyl Acetate	4.708	43	33570	20.128	ug/l #	92
38) Carbon Tetrachloride	5.672	117	32313	22.245	ug/l	97
39) Methylcyclohexane	7.373	83	40845	25.322	ug/l	98
40) Benzene	6.031	78	95198	23.238	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044469.D
Acq On : 23 Dec 2024 11:04
Operator : JC/MD
Sample : VX1223WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 23 21:52:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	17284	19.516 ug/l		96
42) 1,2-Dichloroethane	6.086	62	36432	21.589 ug/l		97
43) Isopropyl Acetate	6.336	43	51199	19.640 ug/l		99
44) Trichloroethene	7.123	130	24449	23.933 ug/l		88
45) 1,2-Dichloropropane	7.421	63	22822	21.806 ug/l		99
46) Dibromomethane	7.574	93	18329	22.574 ug/l		94
47) Bromodichloromethane	7.818	83	29719	21.193 ug/l		99
48) Methyl methacrylate	7.696	41	24119	19.060 ug/l		97
49) 1,4-Dioxane	7.677	88	9452	450.519 ug/l	#	85
51) 4-Methyl-2-Pentanone	8.574	43	163383	97.476 ug/l		100
52) Toluene	8.714	92	56873	22.108 ug/l		98
53) t-1,3-Dichloropropene	8.976	75	27893	19.736 ug/l		92
54) cis-1,3-Dichloropropene	8.360	75	32357	21.192 ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	23112	22.615 ug/l		93
56) Ethyl methacrylate	9.116	69	32351	20.051 ug/l		95
57) 1,3-Dichloropropane	9.305	76	38455	21.618 ug/l		96
58) 2-Chloroethyl Vinyl ether	8.238	63	127285	156.417 ug/l		99
59) 2-Hexanone	9.433	43	118371	97.567 ug/l		98
60) Dibromochloromethane	9.518	129	19798	19.577 ug/l		96
61) 1,2-Dibromoethane	9.604	107	22820	21.936 ug/l		99
64) Tetrachloroethene	9.269	164	22325	26.525 ug/l		96
65) Chlorobenzene	10.079	112	62148	22.871 ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	20191	23.120 ug/l		98
67) Ethyl Benzene	10.189	91	102912	21.919 ug/l		95
68) m/p-Xylenes	10.299	106	79048	45.884 ug/l		93
69) o-Xylene	10.640	106	39669	22.757 ug/l		92
70) Styrene	10.652	104	61594	22.042 ug/l		97
71) Bromoform	10.799	173	11959	21.588 ug/l	#	100
73) Isopropylbenzene	10.957	105	102207	23.041 ug/l		100
74) N-amyl acetate	10.841	43	38323	18.694 ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.213	83	34336	22.286 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	28024m	21.661 ug/l		
77) Bromobenzene	11.195	156	26001	24.172 ug/l		90
78) n-propylbenzene	11.305	91	111601	22.763 ug/l		98
79) 2-Chlorotoluene	11.360	91	68806	21.700 ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	83725	22.760 ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	7722	20.774 ug/l		95
82) 4-Chlorotoluene	11.451	91	77558	22.089 ug/l		98
83) tert-Butylbenzene	11.713	119	82519	22.698 ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	81991	22.695 ug/l		96
85) sec-Butylbenzene	11.890	105	100712	22.820 ug/l		98
86) p-Isopropyltoluene	12.006	119	83824	22.820 ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	44134	23.489 ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	43831	22.693 ug/l		98
89) n-Butylbenzene	12.329	91	68030	22.025 ug/l		99
90) Hexachloroethane	12.536	117	11349	21.165 ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	45028	23.080 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	5361	17.924 ug/l		84
93) 1,2,4-Trichlorobenzene	13.585	180	25935	24.247 ug/l		96
94) Hexachlorobutadiene	13.719	225	11361	26.407 ug/l		98
95) Naphthalene	13.774	128	89367	21.405 ug/l		98
96) 1,2,3-Trichlorobenzene	13.963	180	26148	23.049 ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044469.D
Acq On : 23 Dec 2024 11:04
Operator : JC/MD
Sample : VX1223WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 23 21:52:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

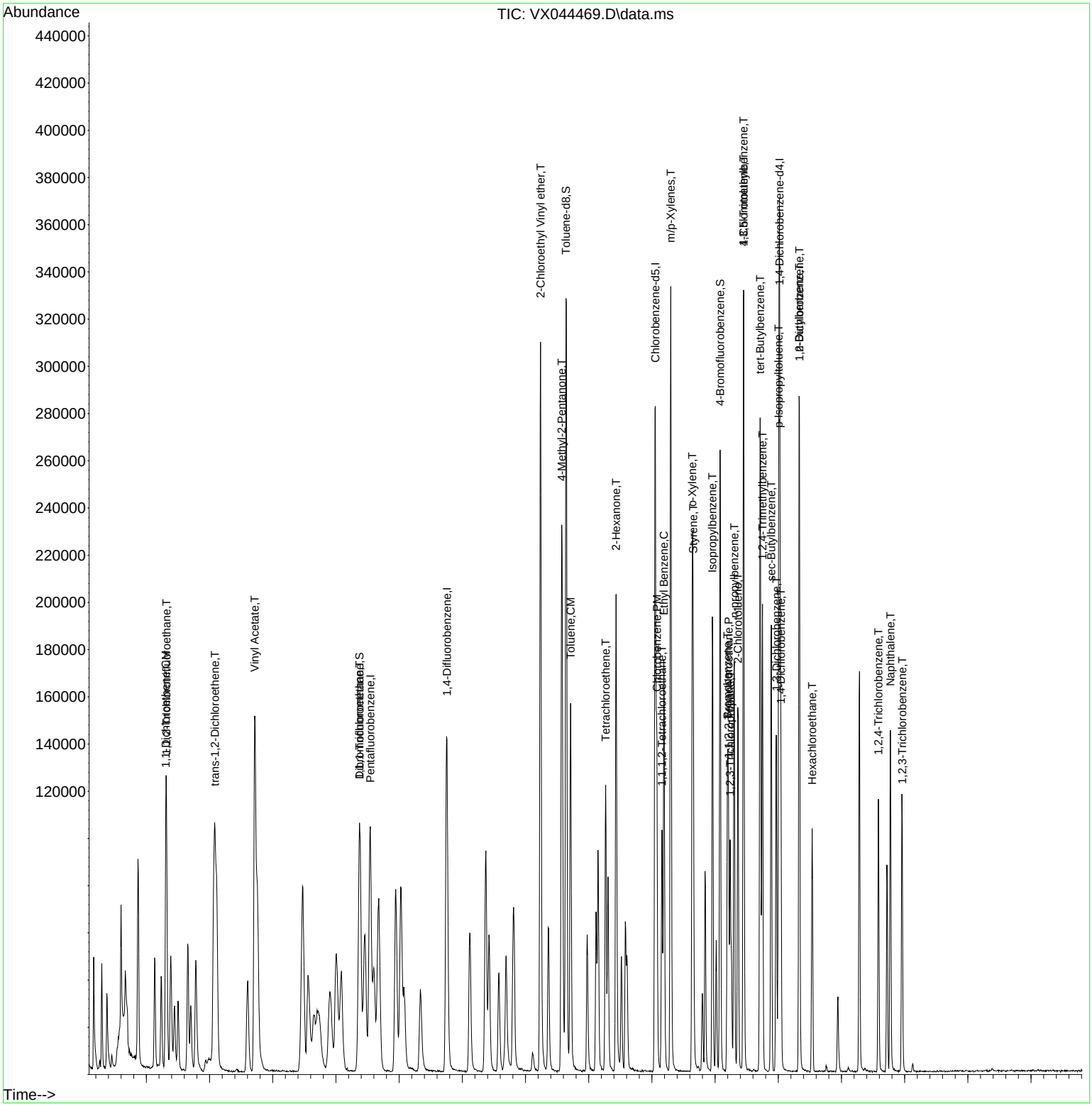
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
Data File : VX044469.D
Acq On : 23 Dec 2024 11:04
Operator : JC/MD
Sample : VX1223WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

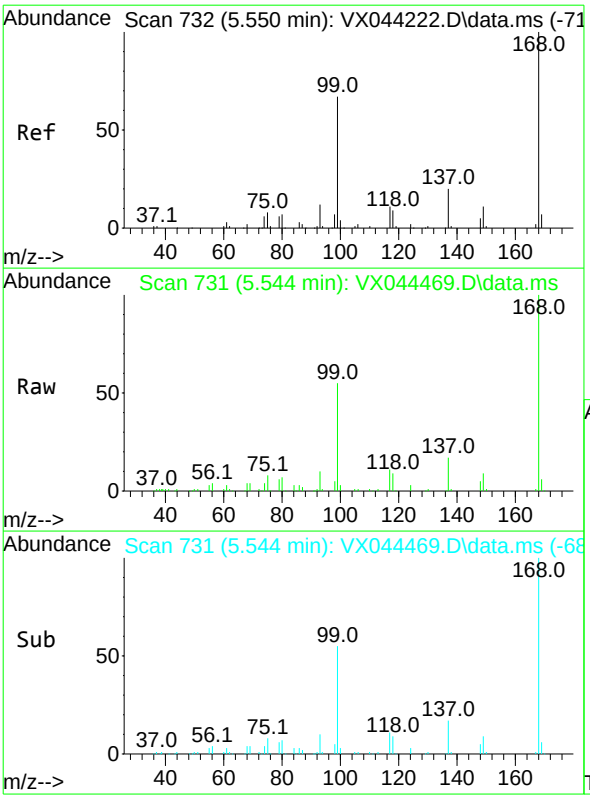
Quant Time: Dec 23 21:52:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

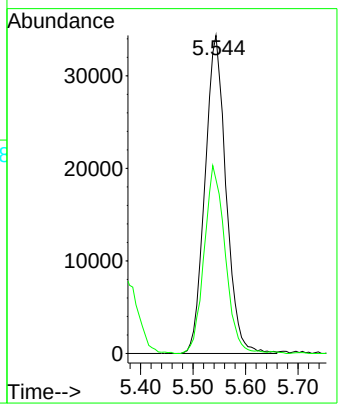




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:168 Resp: 95798

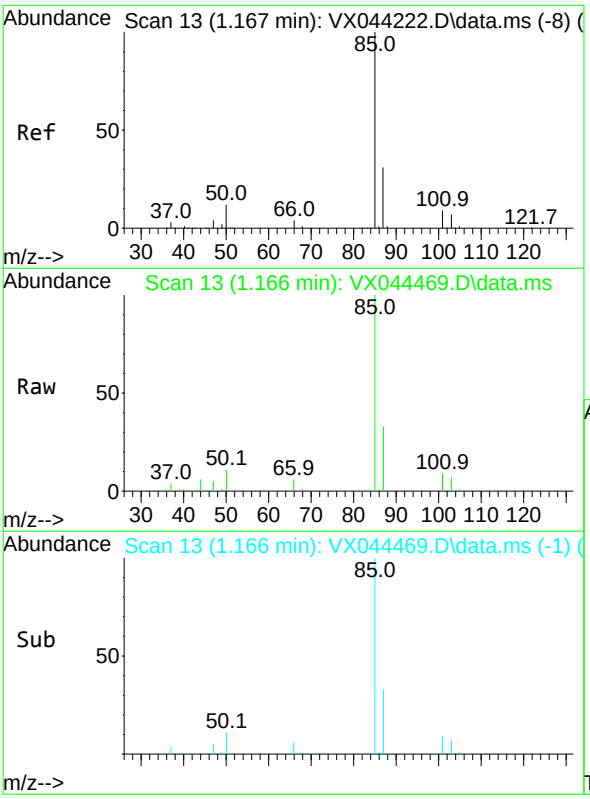
Ion	Ratio	Lower	Upper
168	100		
99	54.7	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

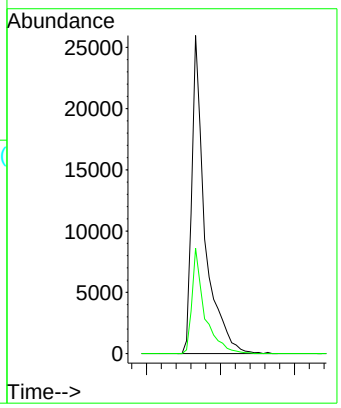
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

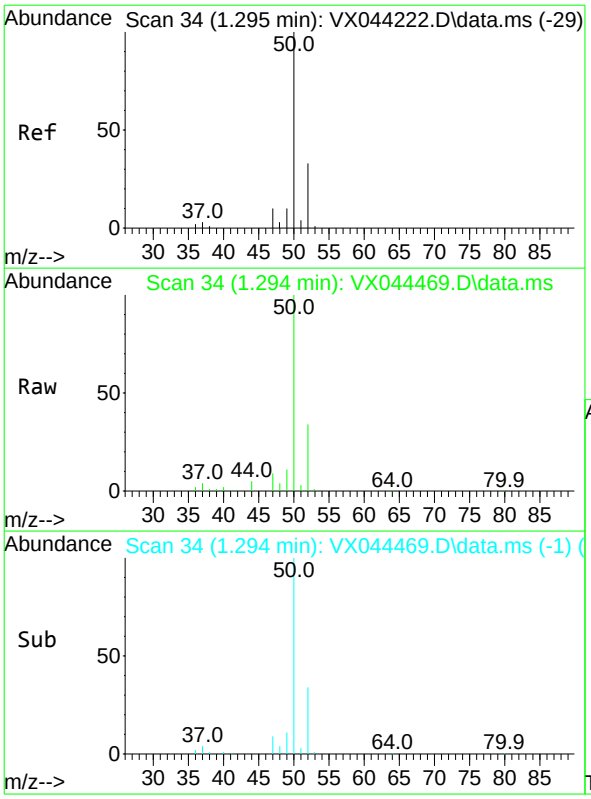


#2
Dichlorodifluoromethane
Concen: 21.608 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 85 Resp: 32007

Ion	Ratio	Lower	Upper
85	100		
87	33.1	15.4	46.4

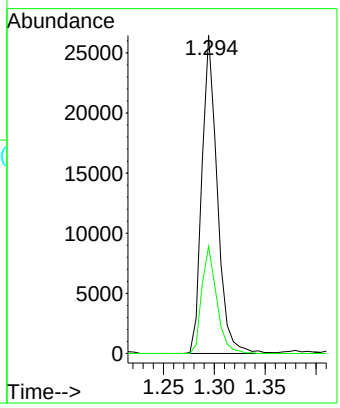




#3
Chloromethane
Concen: 19.607 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 50 Resp: 27774

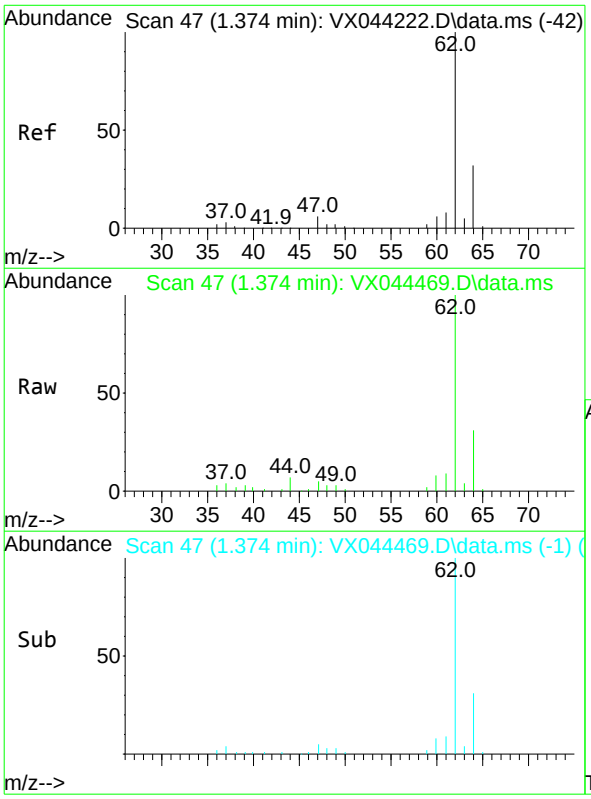
Ion	Ratio	Lower	Upper
50	100		
52	33.7	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

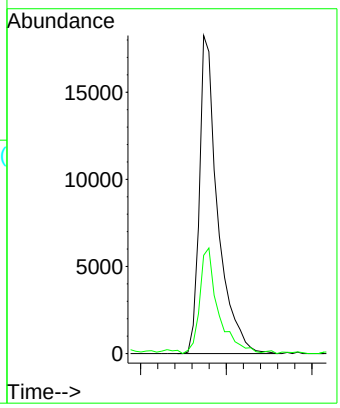
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

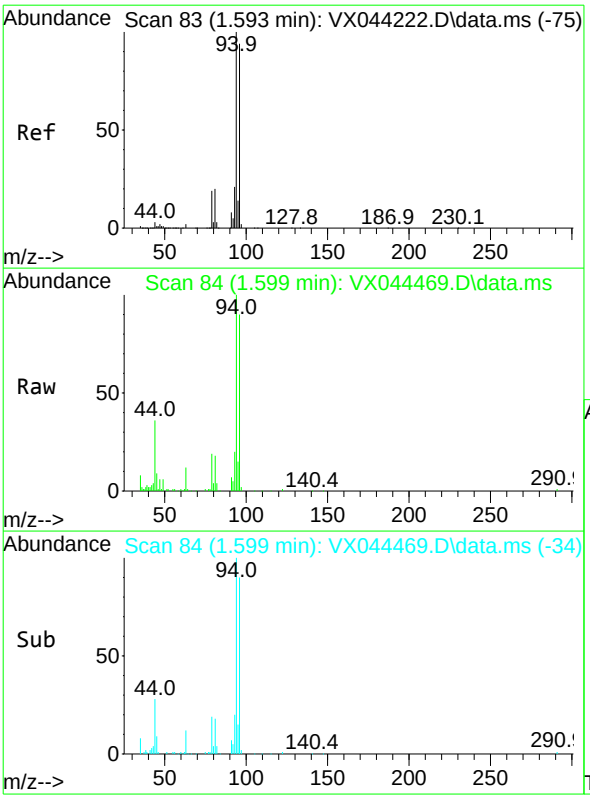


#4
Vinyl Chloride
Concen: 18.307 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 62 Resp: 27016

Ion	Ratio	Lower	Upper
62	100		
64	30.9	25.7	38.5

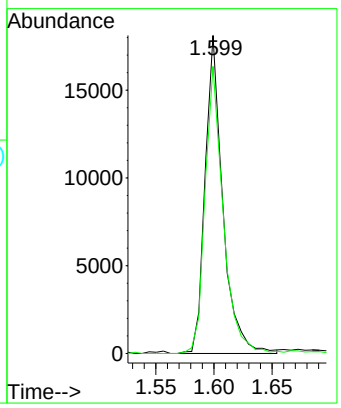




#5
Bromomethane
Concen: 18.328 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 94 Resp: 19188

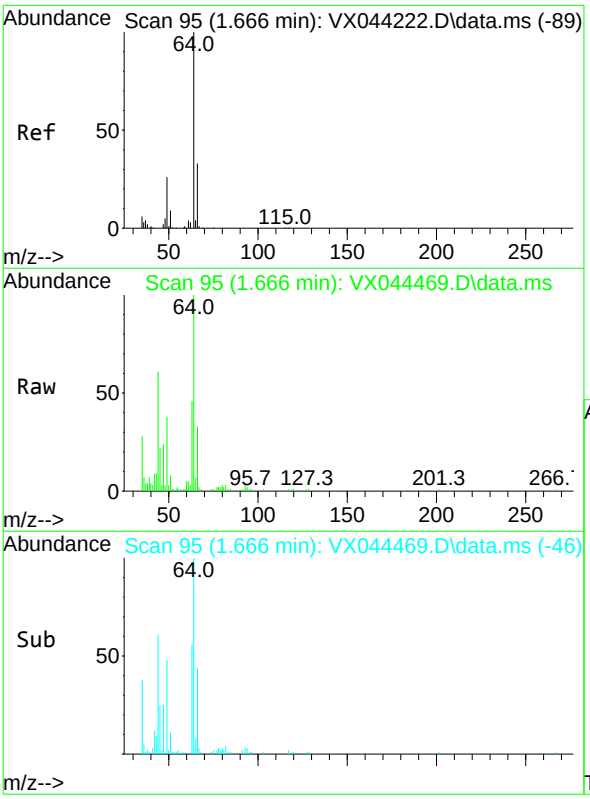
Ion	Ratio	Lower	Upper
94	100		
96	90.3	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

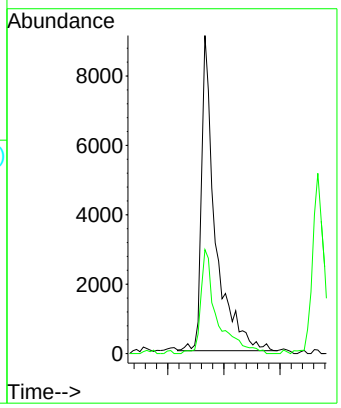
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

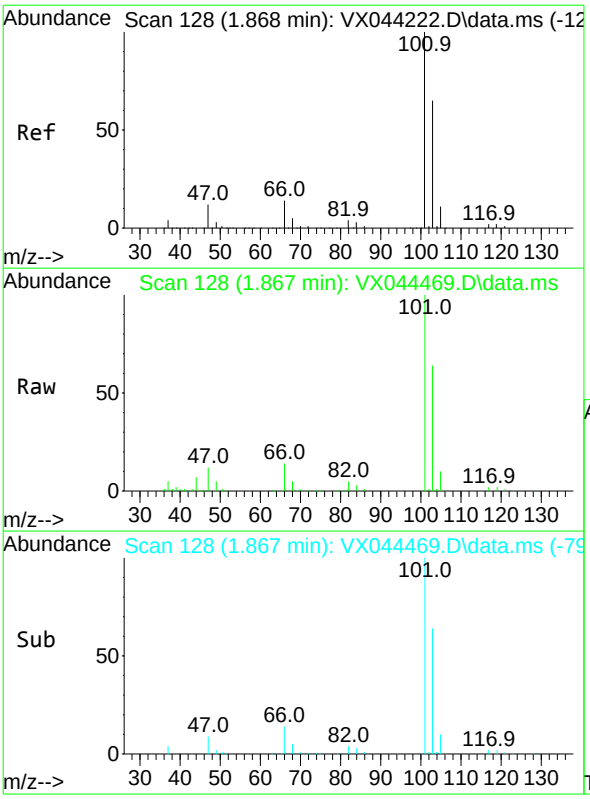


#6
Chloroethane
Concen: 16.955 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 64 Resp: 15580

Ion	Ratio	Lower	Upper
64	100		
66	33.0	26.6	39.8

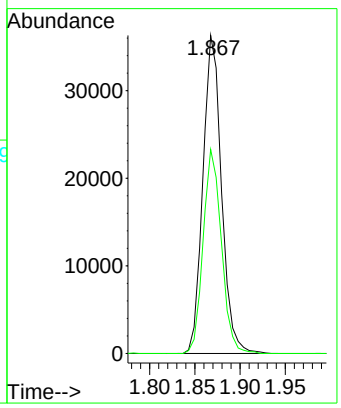




#7
Trichlorofluoromethane
Concen: 17.979 ug/l
RT: 1.867 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:101 Resp: 51943

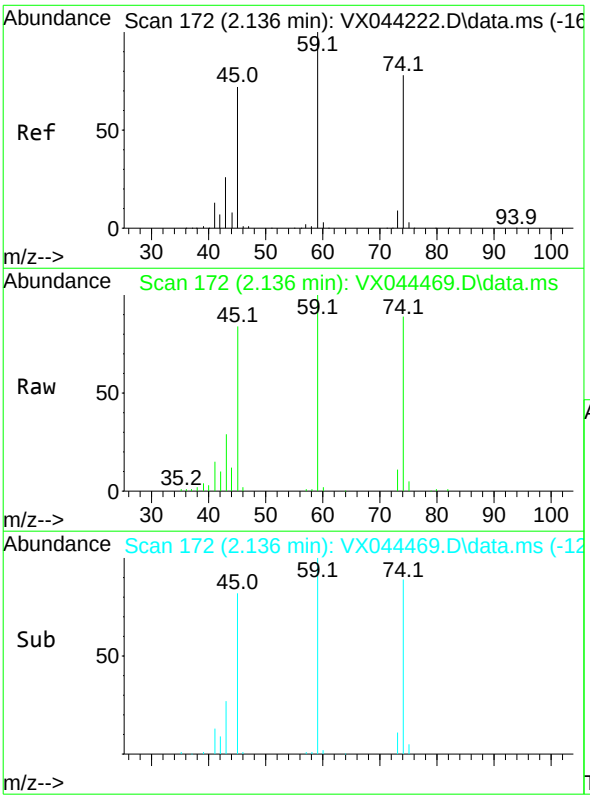
Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

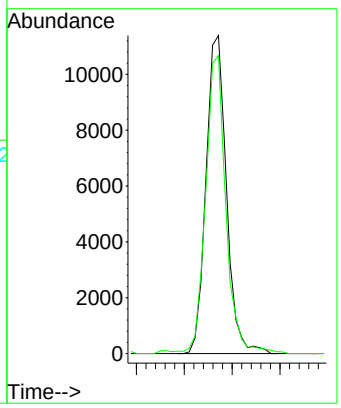
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

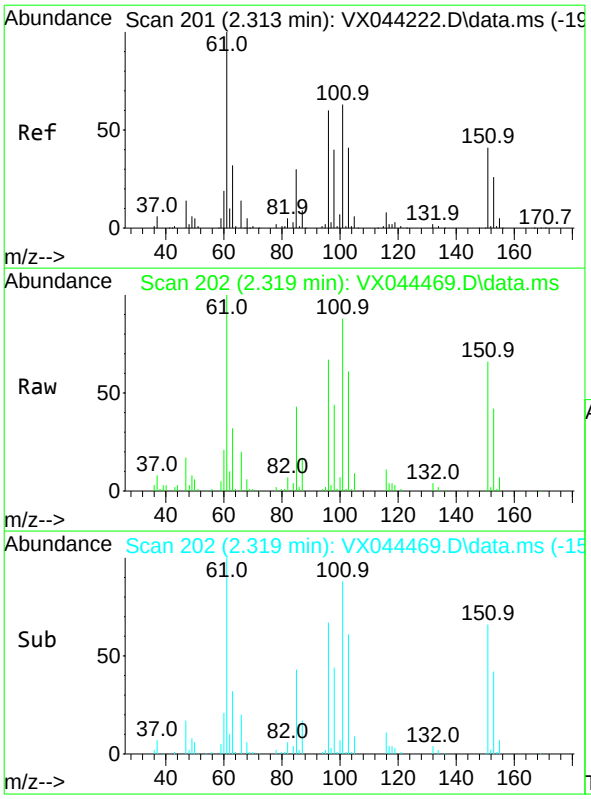


#8
Diethyl Ether
Concen: 17.096 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 74 Resp: 16859

Ion	Ratio	Lower	Upper
74	100		
45	93.3	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.838 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

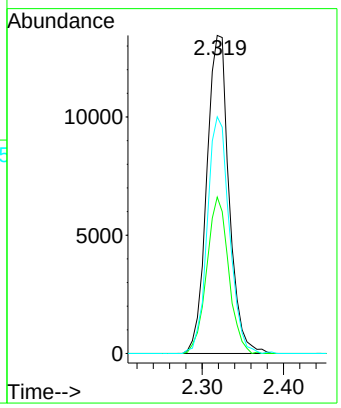
Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

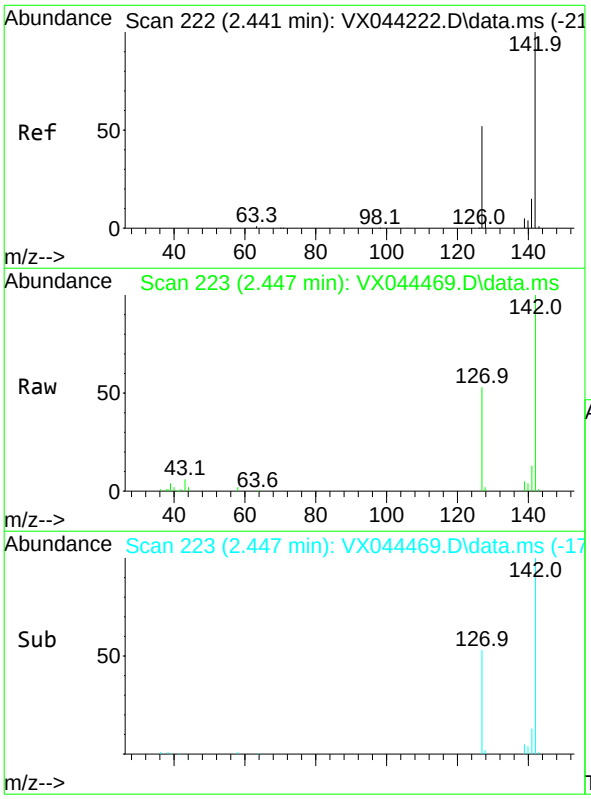
Tgt Ion:101 Resp: 25530

Ion	Ratio	Lower	Upper
101	100		
85	48.3	38.5	57.7
151	73.7	55.8	83.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

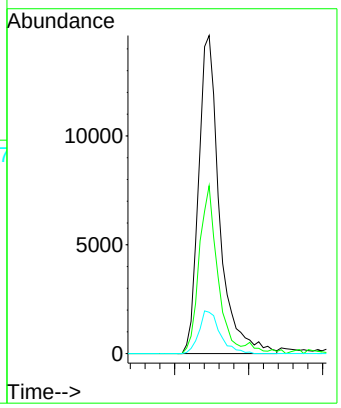


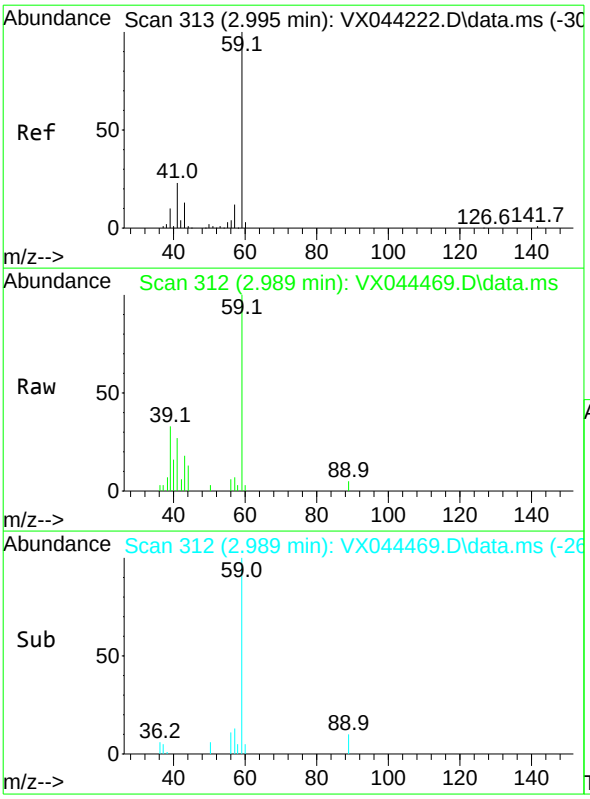


#10
Methyl Iodide
Concen: 18.599 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:142 Resp: 28656

Ion	Ratio	Lower	Upper
142	100		
127	46.2	41.8	62.8
141	13.5	11.5	17.3

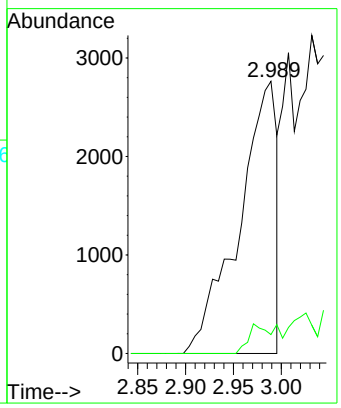




#11
Tert butyl alcohol
Concen: 32.156 ug/l
RT: 2.989 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 59 Resp: 7612

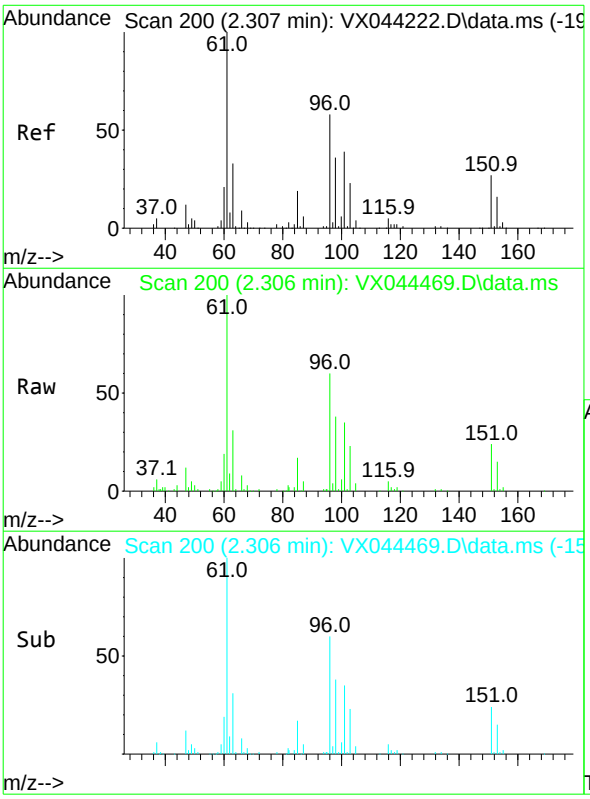
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.8	13.2#



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

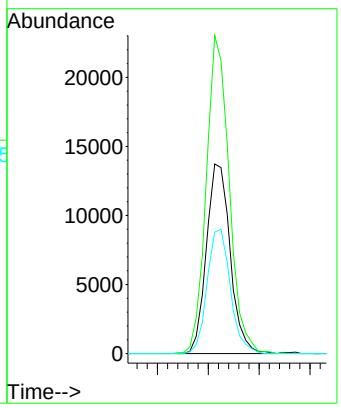
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

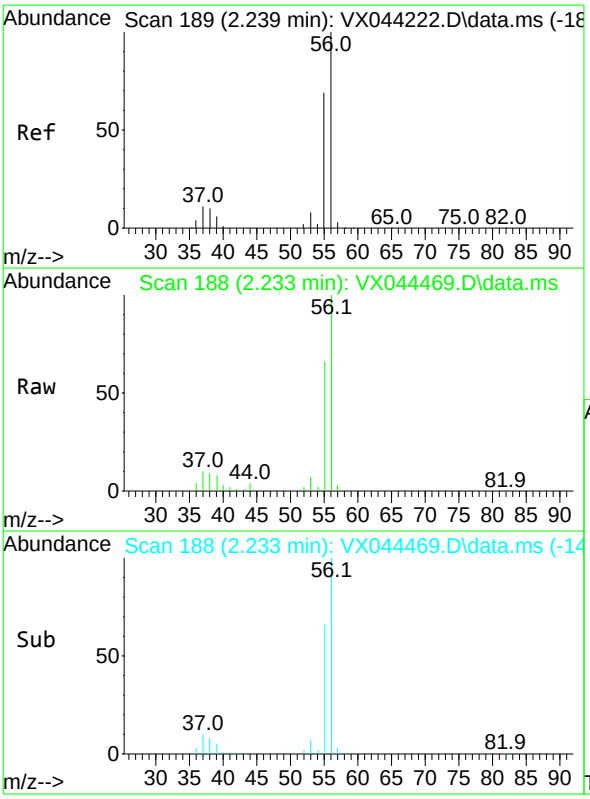


#12
1,1-Dichloroethene
Concen: 20.796 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 96 Resp: 22330

Ion	Ratio	Lower	Upper
96	100		
61	167.7	138.0	207.0
98	64.1	50.0	75.0

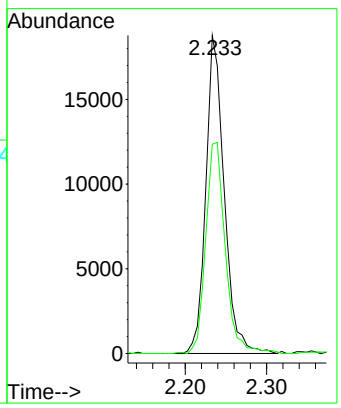




#13
Acrolein
Concen: 85.915 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 56 Resp: 29440

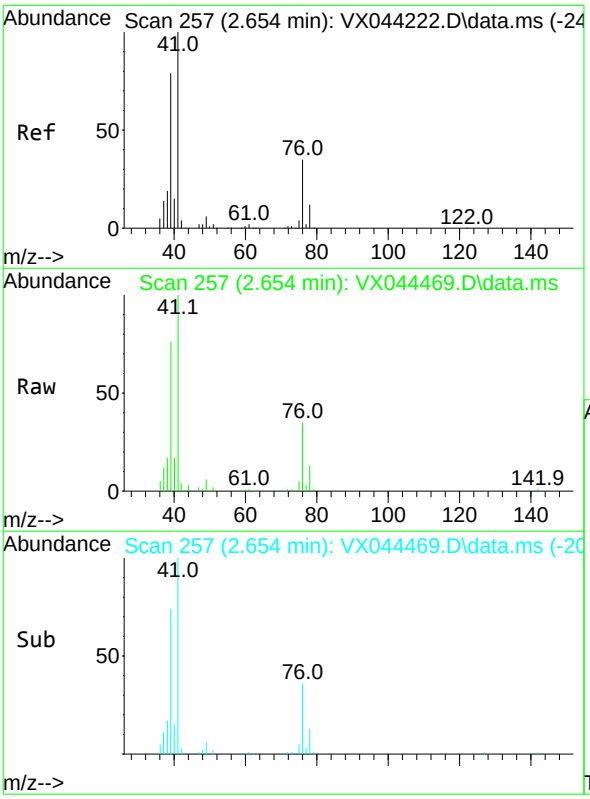
Ion	Ratio	Lower	Upper
56	100		
55	70.7	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

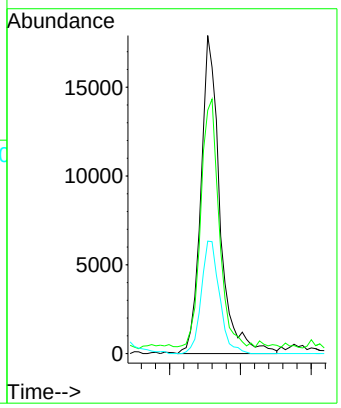
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

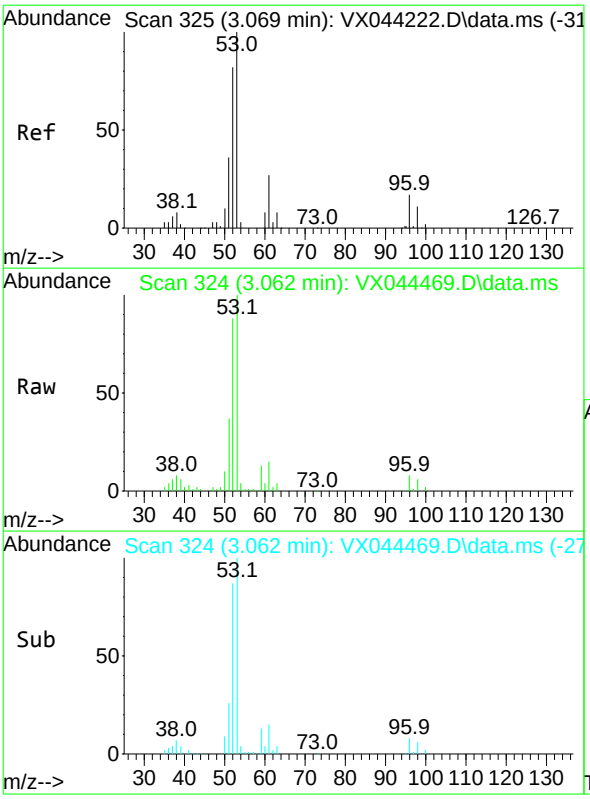


#14
Allyl chloride
Concen: 18.681 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 41 Resp: 33412

Ion	Ratio	Lower	Upper
41	100		
39	74.5	61.9	92.9
76	33.9	27.4	41.2





#15
Acrylonitrile
Concen: 94.174 ug/l
RT: 3.062 min Scan# 32
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

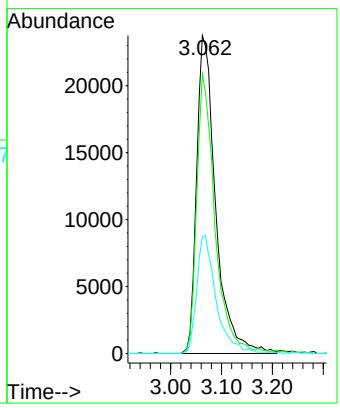
Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

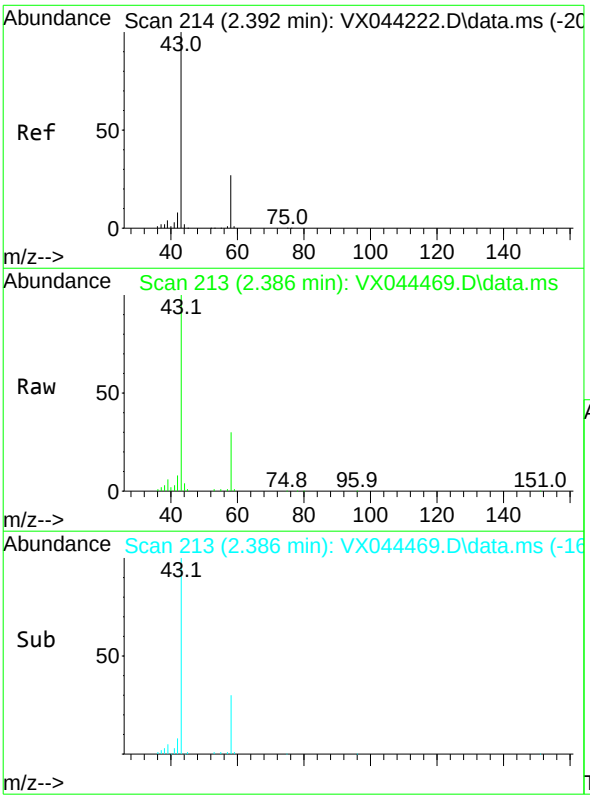
Tgt Ion: 53 Resp: 61753

Ion	Ratio	Lower	Upper
53	100		
52	83.2	67.4	101.0
51	37.2	30.3	45.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

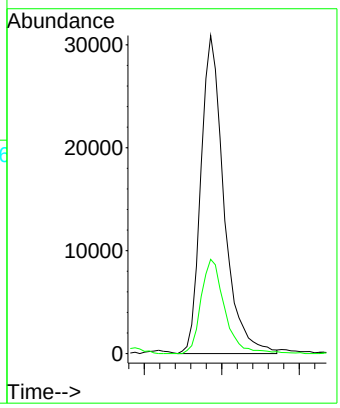


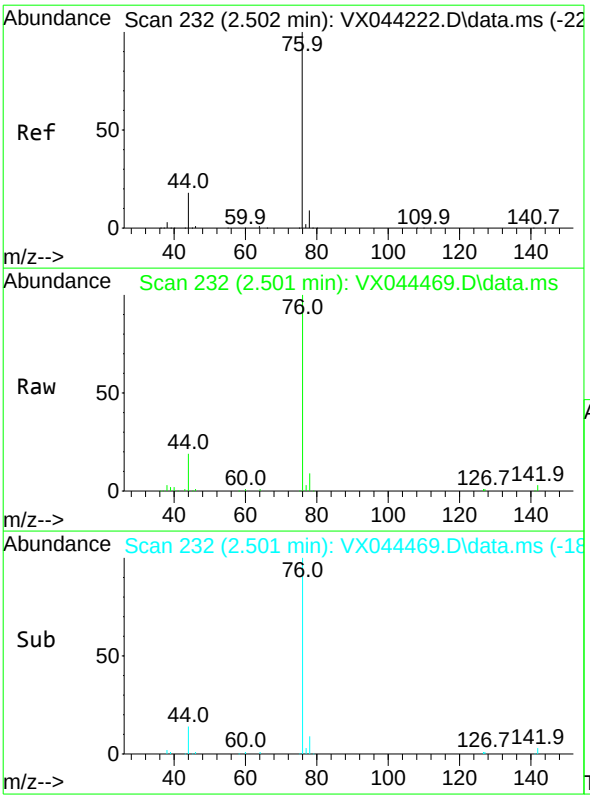


#16
Acetone
Concen: 93.417 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 43 Resp: 63969

Ion	Ratio	Lower	Upper
43	100		
58	29.6	21.6	32.4

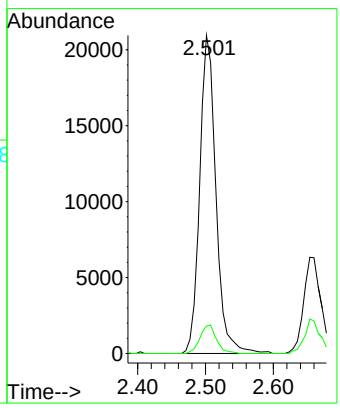




#17
Carbon Disulfide
Concen: 17.037 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 76 Resp: 34775

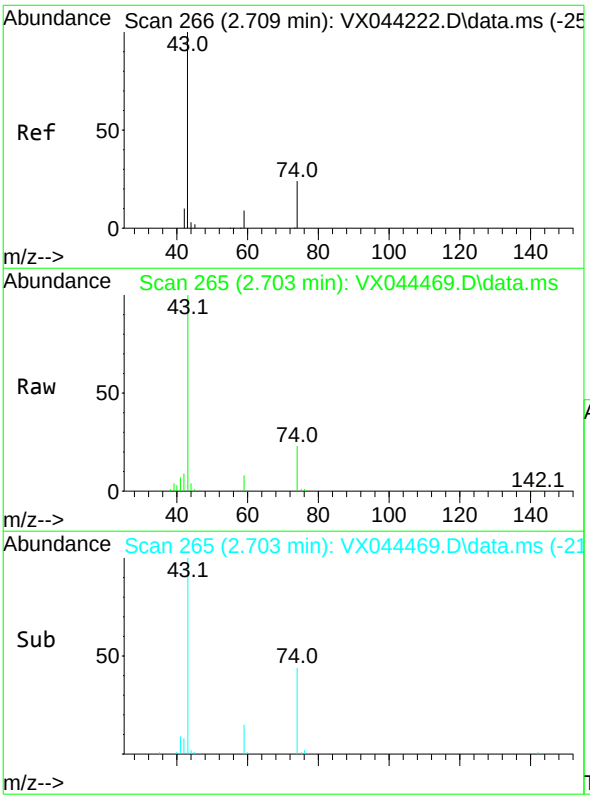
Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

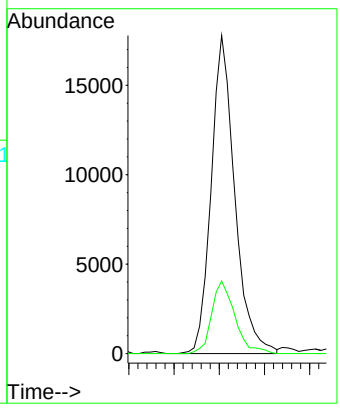
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

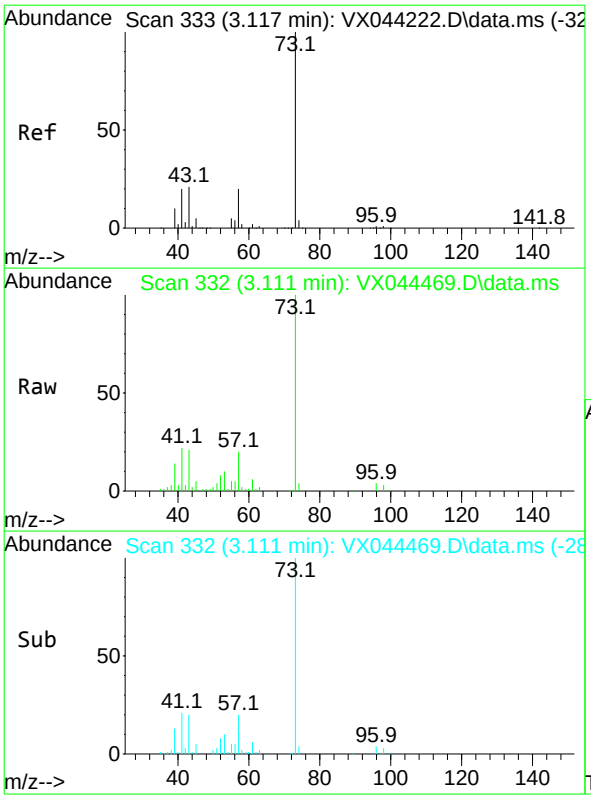


#18
Methyl Acetate
Concen: 18.252 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 43 Resp: 32226

Ion	Ratio	Lower	Upper
43	100		
74	22.5	17.7	26.5

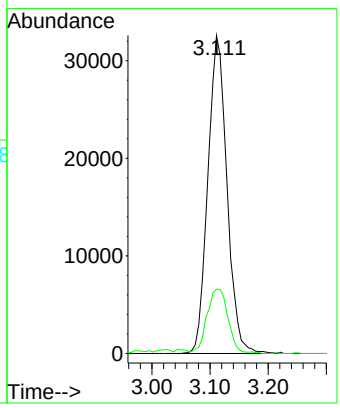




#19
Methyl tert-butyl Ether
Concen: 17.755 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 73 Resp: 74398

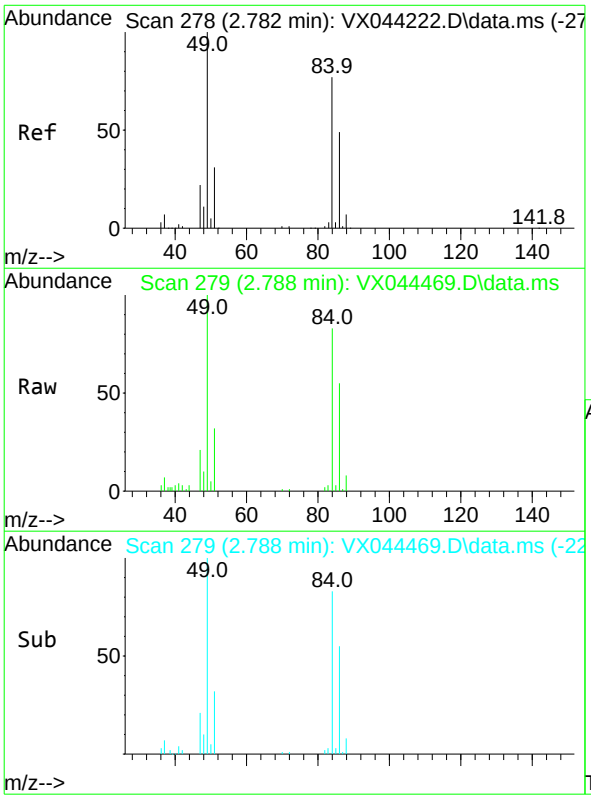
Ion	Ratio	Lower	Upper
73	100		
57	20.0	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

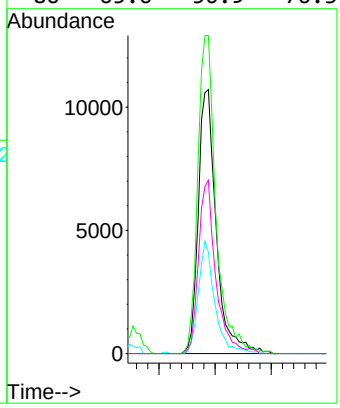
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

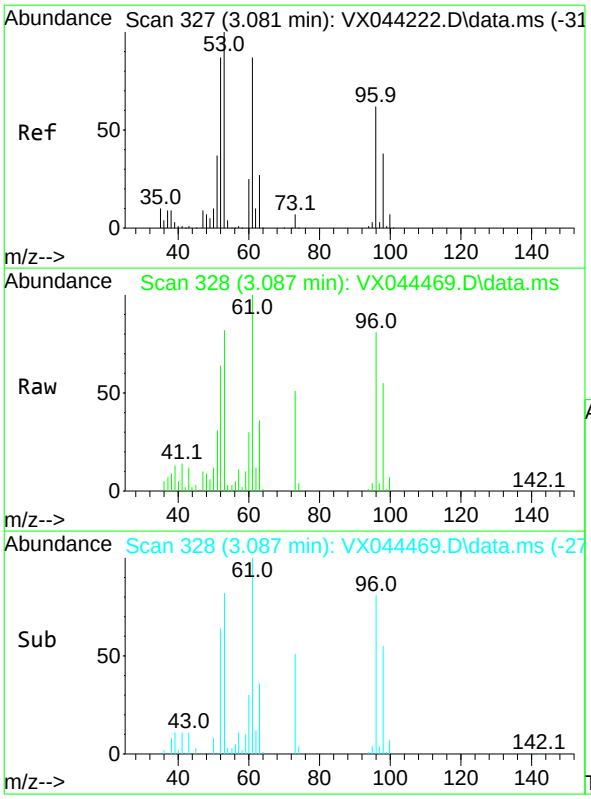


#20
Methylene Chloride
Concen: 18.613 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 84 Resp: 23939

Ion	Ratio	Lower	Upper
84	100		
49	120.4	104.2	156.4
51	38.5	32.2	48.4
86	65.6	50.9	76.3

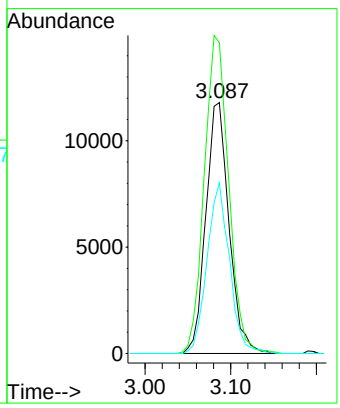




#21
trans-1,2-Dichloroethene
Concen: 19.390 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 96 Resp: 22128

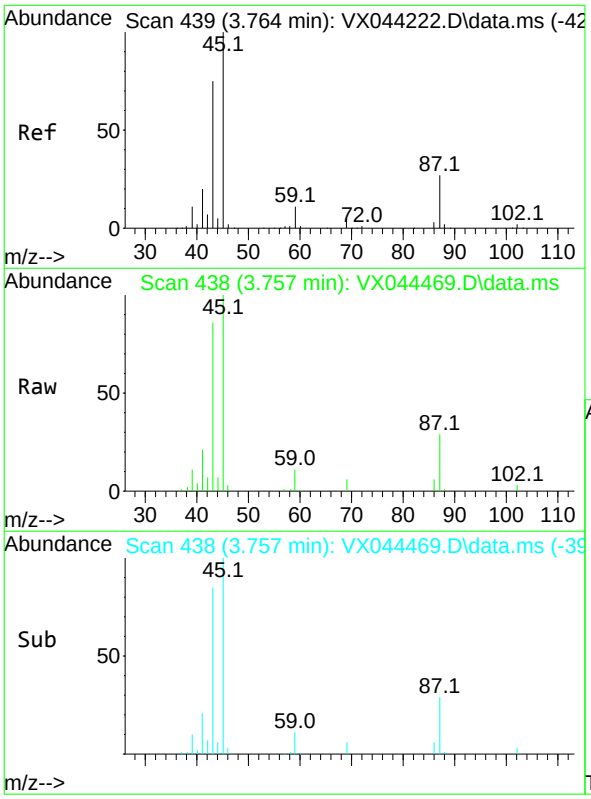
Ion	Ratio	Lower	Upper
96	100		
61	123.9	112.0	168.0
98	68.0	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

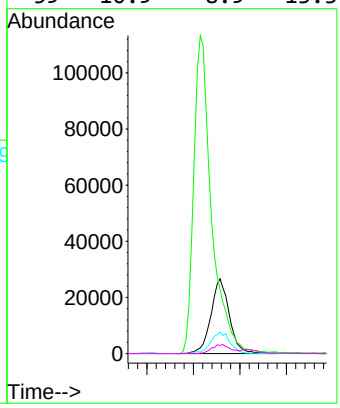
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

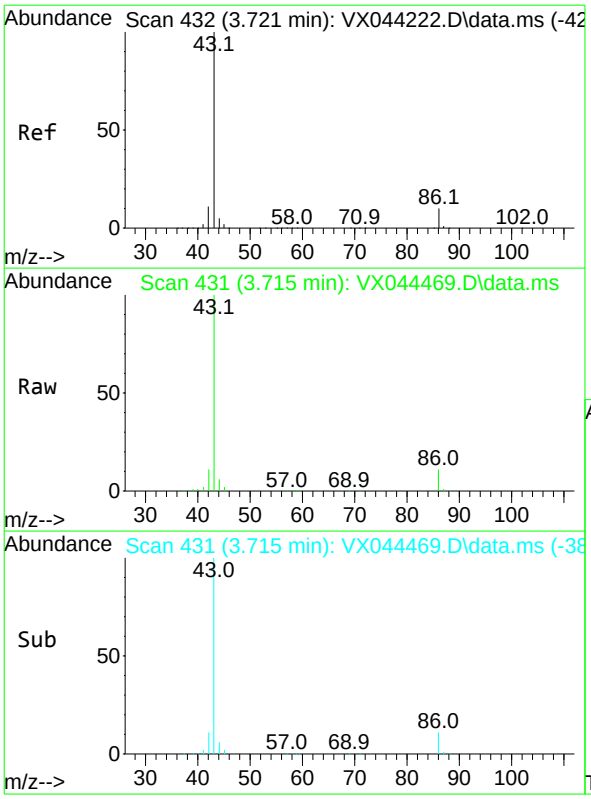


#22
Diisopropyl ether
Concen: 18.121 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 45 Resp: 72980

Ion	Ratio	Lower	Upper
45	100		
43	85.8	60.2	90.2
87	28.9	21.2	31.8
59	10.9	8.9	13.3

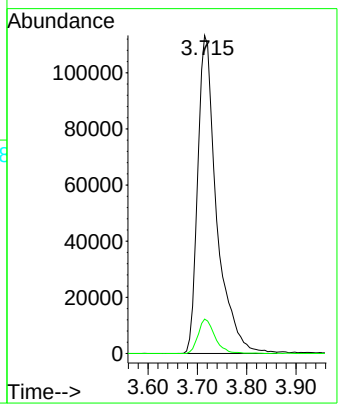




#23
Vinyl Acetate
Concen: 92.293 ug/l
RT: 3.715 min Scan# 43
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 43 Resp: 302197

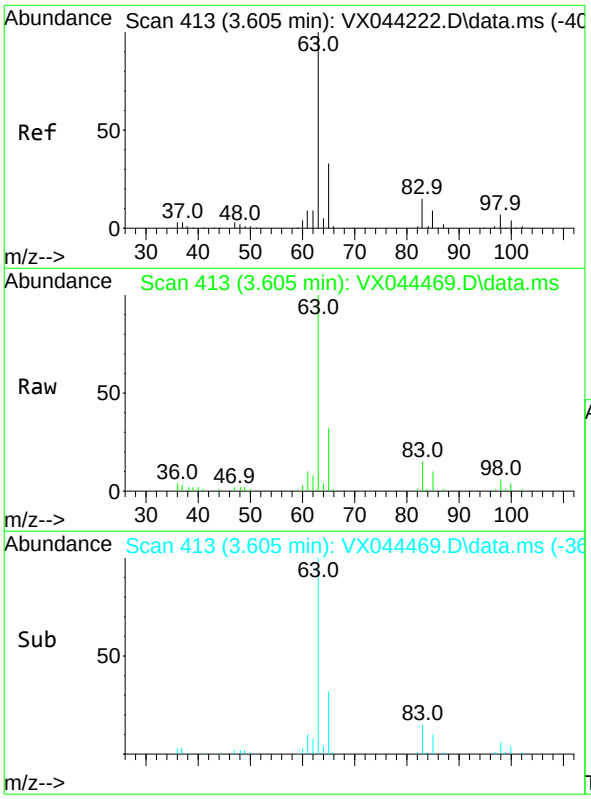
Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

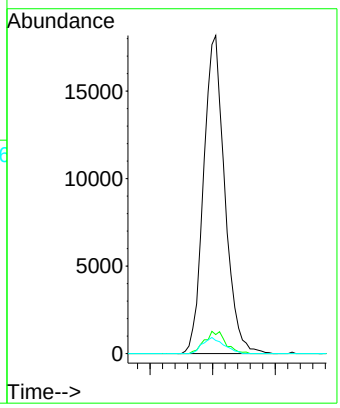
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

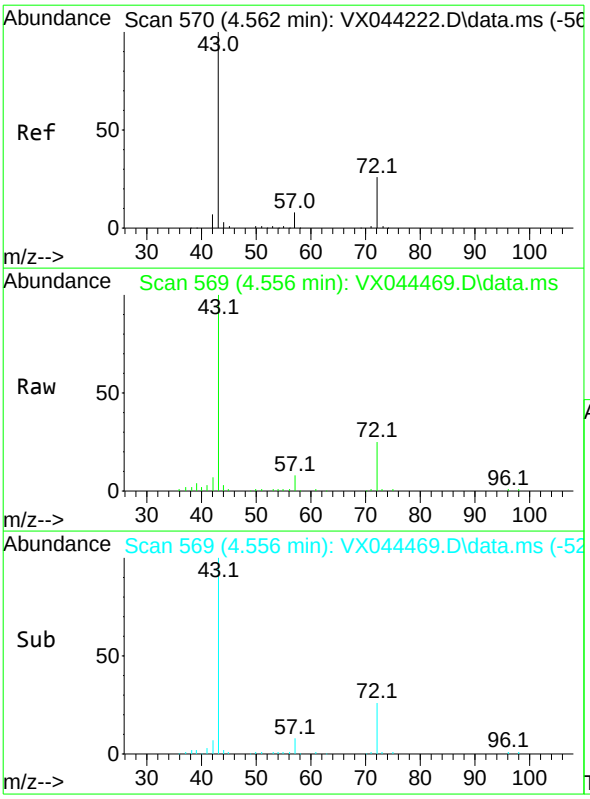


#24
1,1-Dichloroethane
Concen: 19.007 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 63 Resp: 42670

Ion	Ratio	Lower	Upper
63	100		
98	6.0	3.6	10.8
100	4.1	2.1	6.3

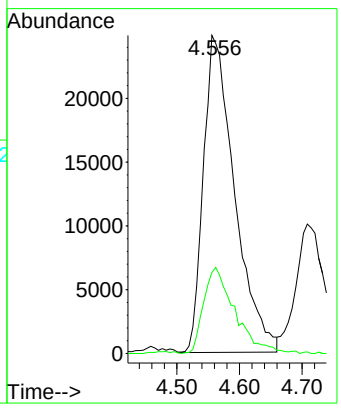




#25
2-Butanone
Concen: 88.449 ug/l
RT: 4.556 min Scan# 56
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 43 Resp: 86105

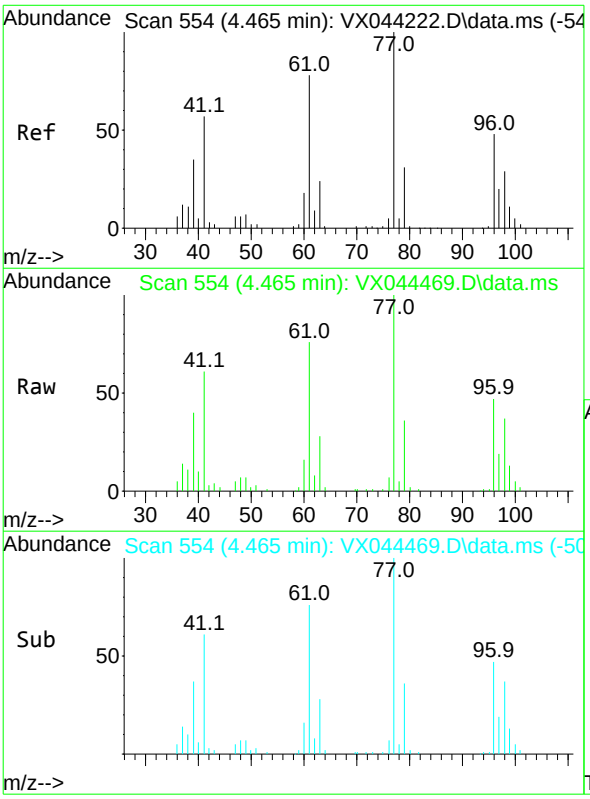
Ion	Ratio	Lower	Upper
43	100		
72	25.3	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

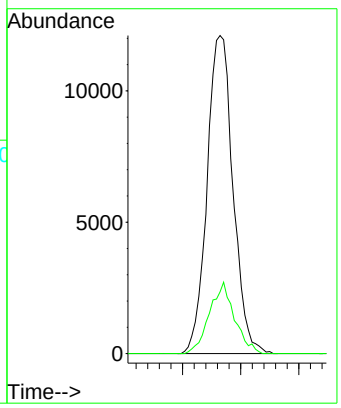
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

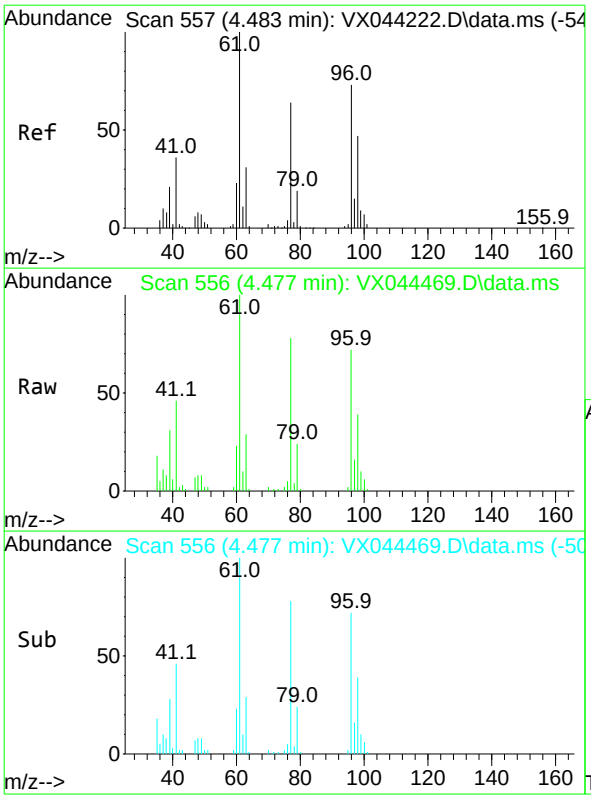


#26
2,2-Dichloropropane
Concen: 20.587 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 77 Resp: 37546

Ion	Ratio	Lower	Upper
77	100		
97	21.7	10.7	32.1

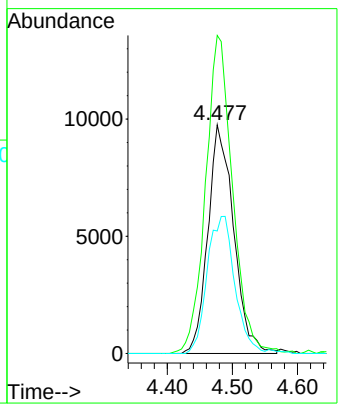




#27
cis-1,2-Dichloroethene
Concen: 18.501 ug/l
RT: 4.477 min Scan# 55
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 96 Resp: 26814

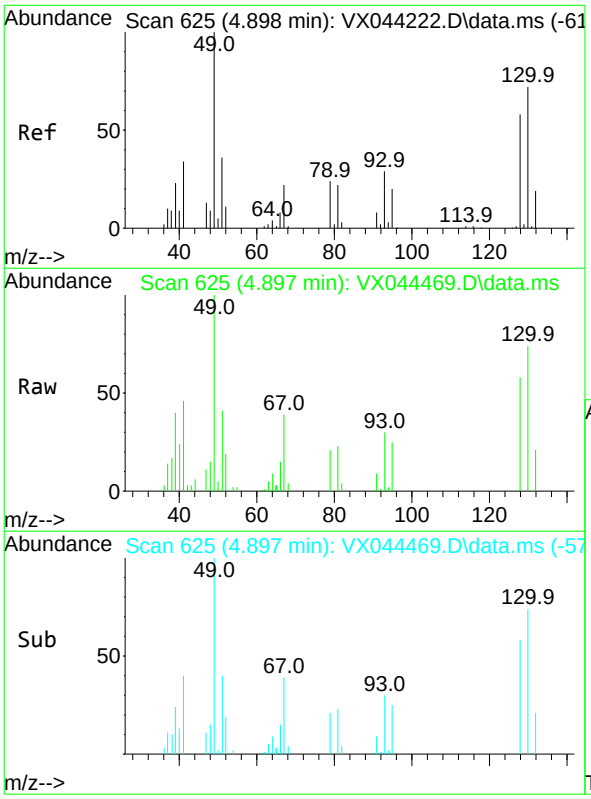
Ion	Ratio	Lower	Upper
96	100		
61	145.6	0.0	299.0
98	64.1	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

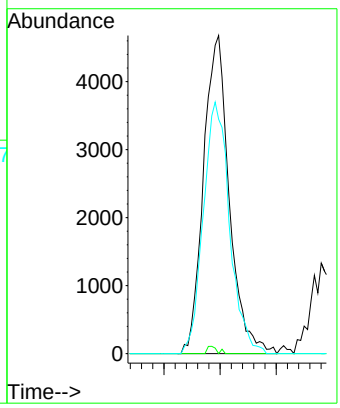
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

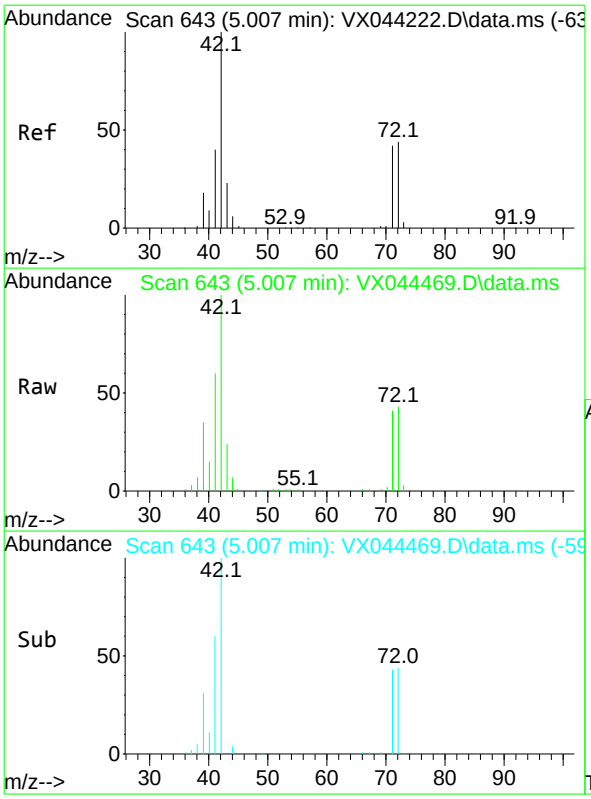


#28
Bromochloromethane
Concen: 13.548 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 49 Resp: 14914

Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	4.2
130	80.8	62.1	93.1





#29
Tetrahydrofuran
Concen: 83.576 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

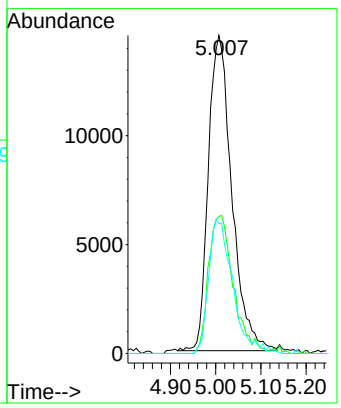
Tgt Ion: 42 Resp: 52223

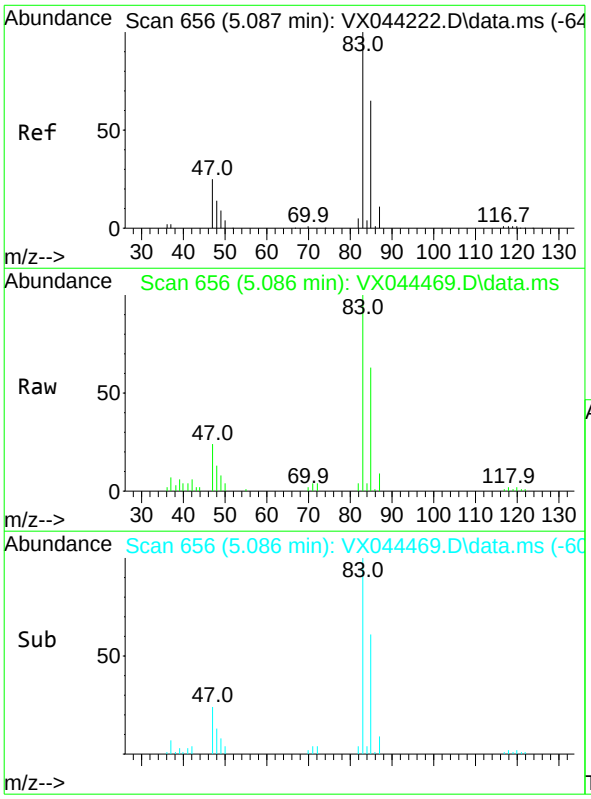
Ion	Ratio	Lower	Upper
42	100		
72	46.4	37.0	55.6
71	43.5	33.6	50.4

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

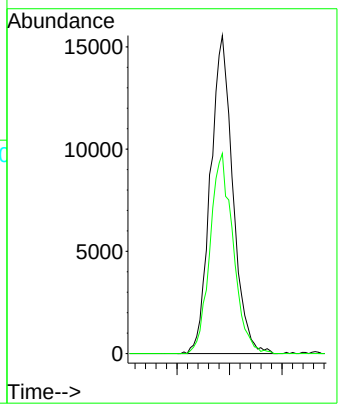


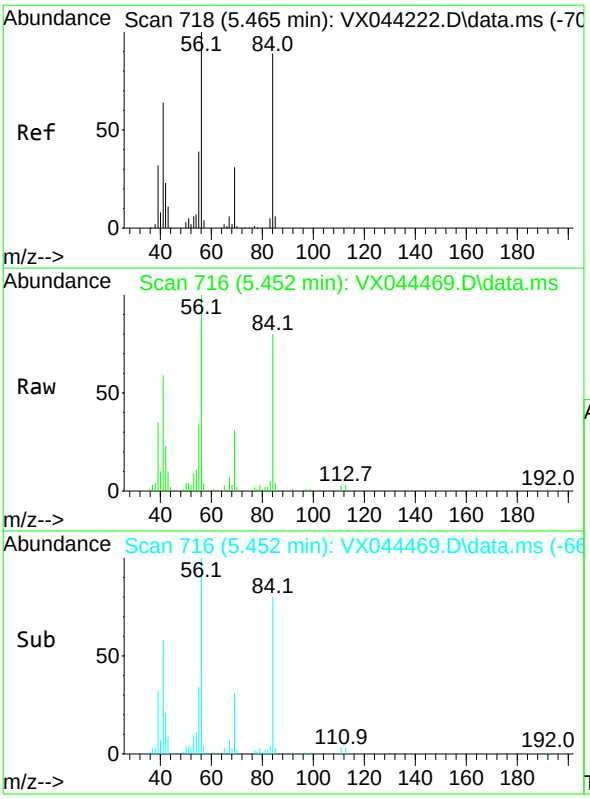


#30
Chloroform
Concen: 18.243 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 83 Resp: 46014

Ion	Ratio	Lower	Upper
83	100		
85	62.9	51.6	77.4





#31
Cyclohexane
Concen: 21.141 ug/l
RT: 5.452 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

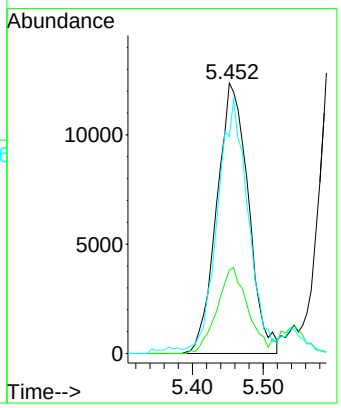
Tgt Ion: 56 Resp: 38325

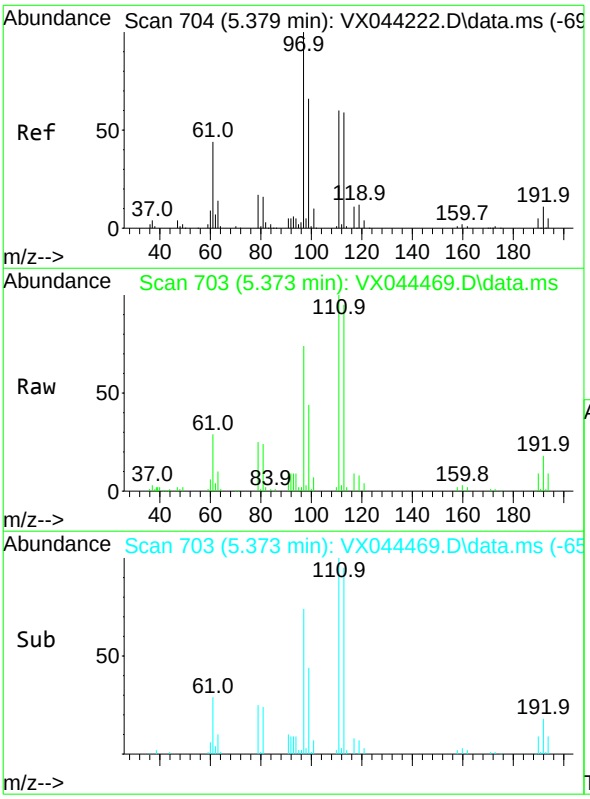
Ion	Ratio	Lower	Upper
56	100		
69	30.8	24.7	37.1
84	78.1	71.0	106.6

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

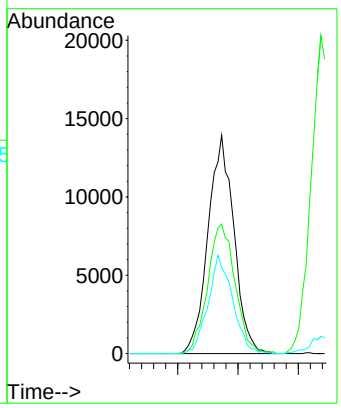


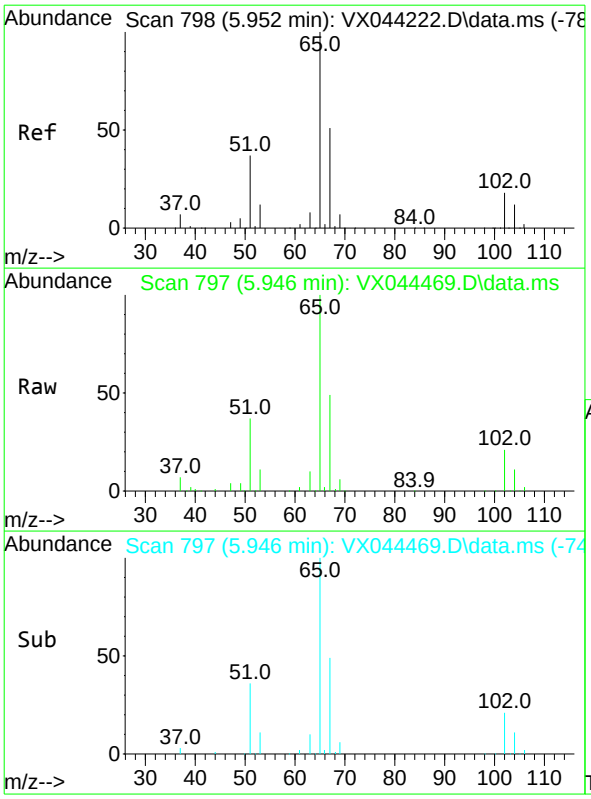


#32
1,1,1-Trichloroethane
Concen: 19.813 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 97 Resp: 41484

Ion	Ratio	Lower	Upper
97	100		
99	63.0	50.8	76.2
61	42.7	35.2	52.8





#33
1,2-Dichloroethane-d4
Concen: 44.013 ug/l
RT: 5.946 min Scan# 79
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

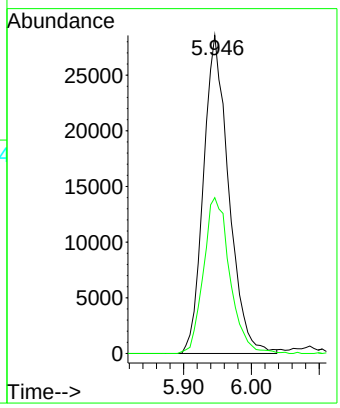
Tgt Ion: 65 Resp: 73927

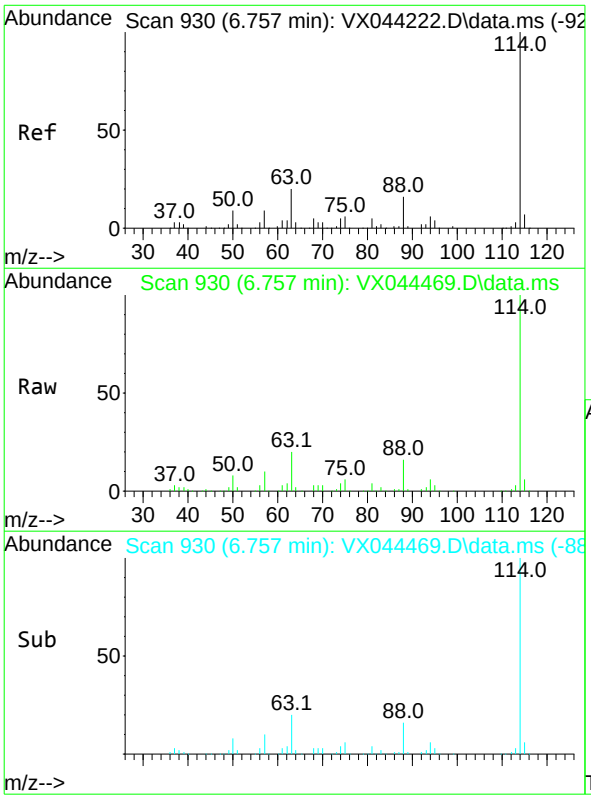
Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	101.6

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

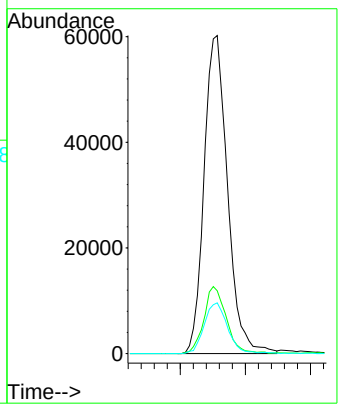


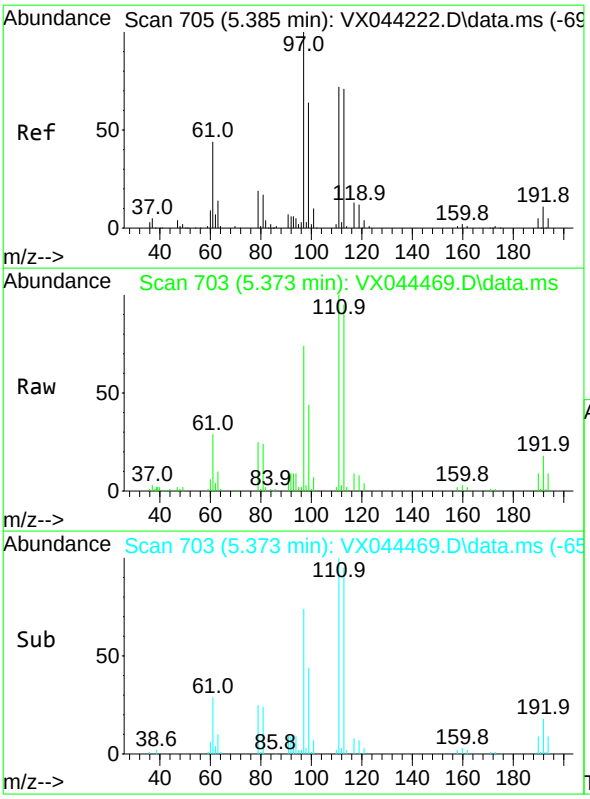


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:114 Resp: 150710

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	40.6
88	16.0	0.0	31.8





#35
Dibromofluoromethane
Concen: 54.188 ug/l
RT: 5.373 min Scan# 70
Delta R.T. -0.012 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

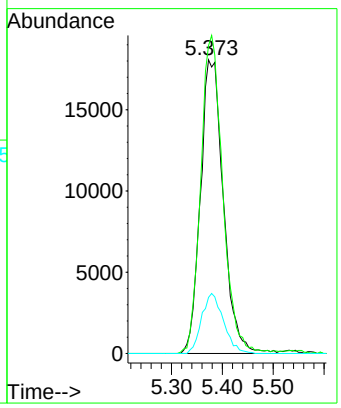
Tgt Ion:113 Resp: 56562

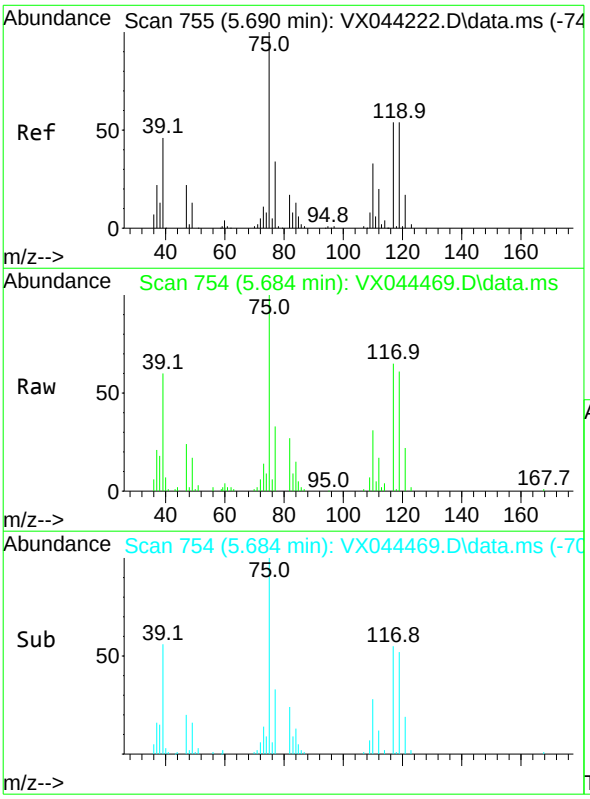
Ion	Ratio	Lower	Upper
113	100		
111	104.2	80.4	120.6
192	19.5	13.3	19.9

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

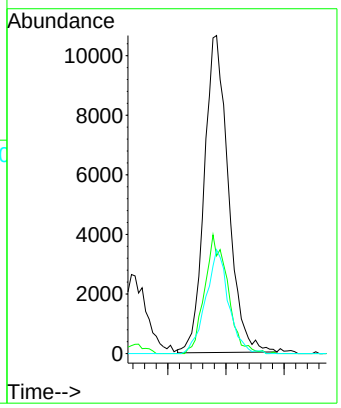


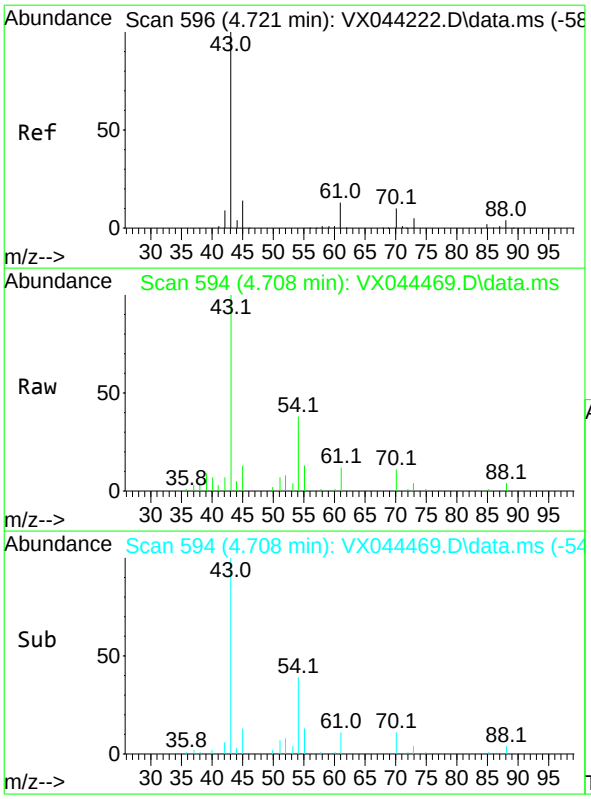


#36
1,1-Dichloropropene
Concen: 22.670 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 75 Resp: 30587

Ion	Ratio	Lower	Upper
75	100		
110	35.9	17.3	51.7
77	31.2	25.4	38.0





#37
Ethyl Acetate
Concen: 20.128 ug/l
RT: 4.708 min Scan# 59
Delta R.T. -0.012 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

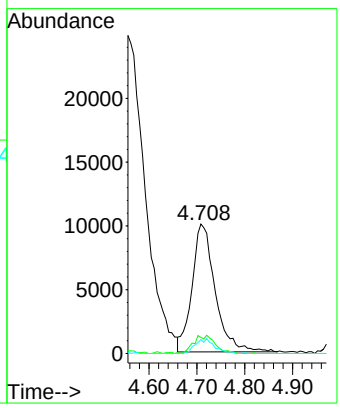
Tgt Ion: 43 Resp: 33570

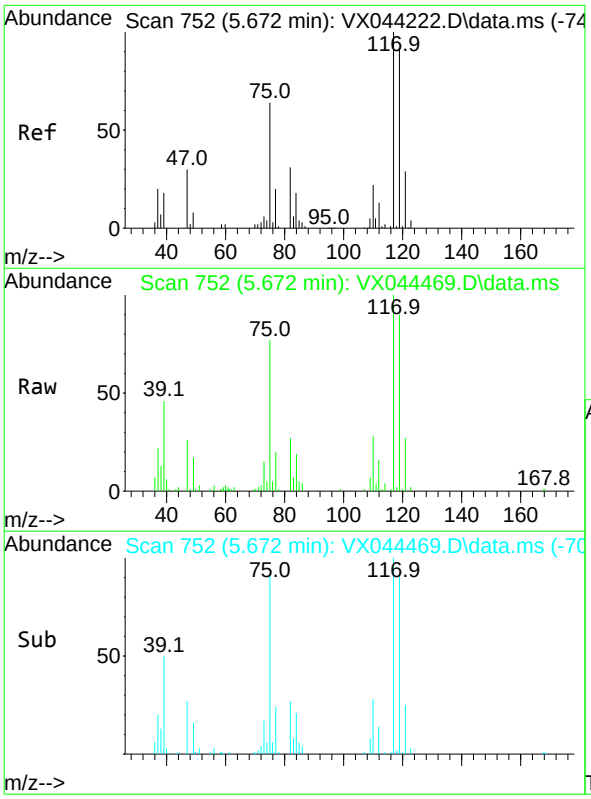
Ion	Ratio	Lower	Upper
43	100		
61	6.9	9.8	14.8#
70	9.5	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

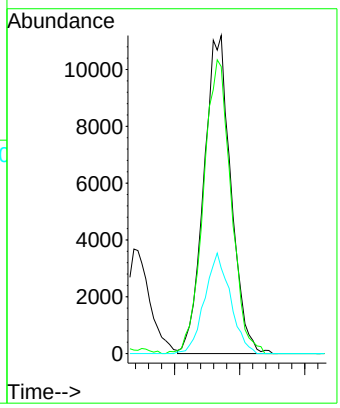


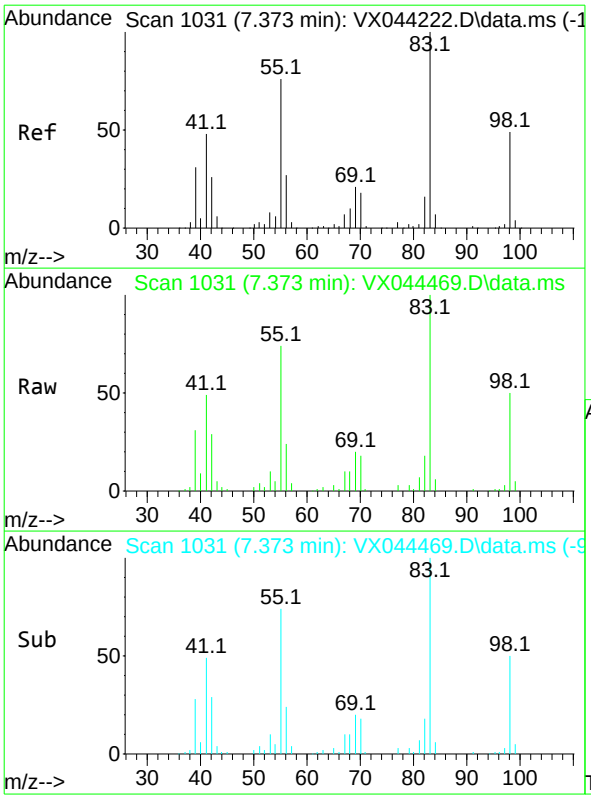


#38
Carbon Tetrachloride
Concen: 22.245 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:117 Resp: 32313

Ion	Ratio	Lower	Upper
117	100		
119	90.2	74.2	111.4
121	26.9	23.0	34.6

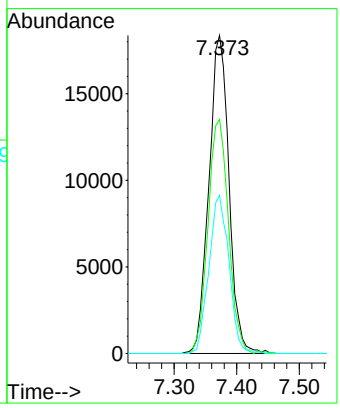




#39
Methylcyclohexane
Concen: 25.322 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 83 Resp: 40845

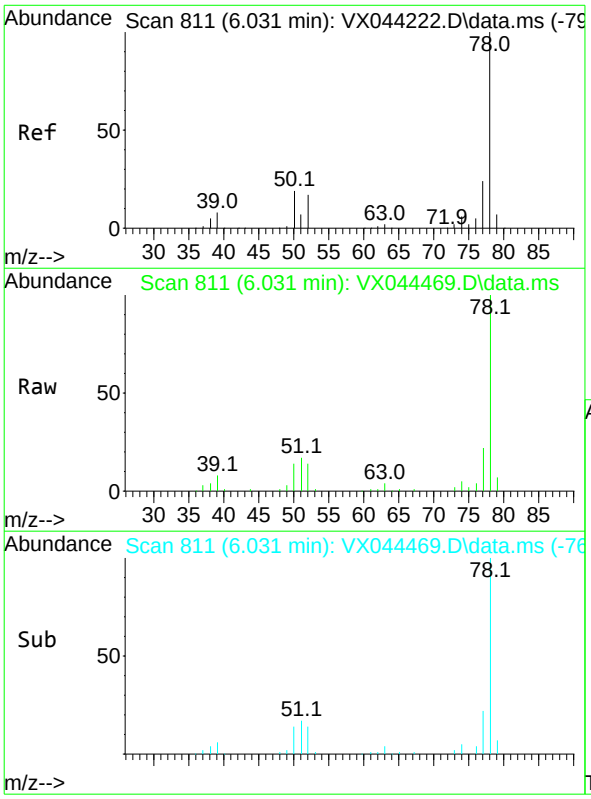
Ion	Ratio	Lower	Upper
83	100		
55	73.6	60.7	91.1
98	49.7	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

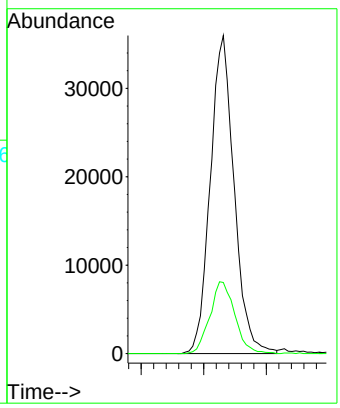
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

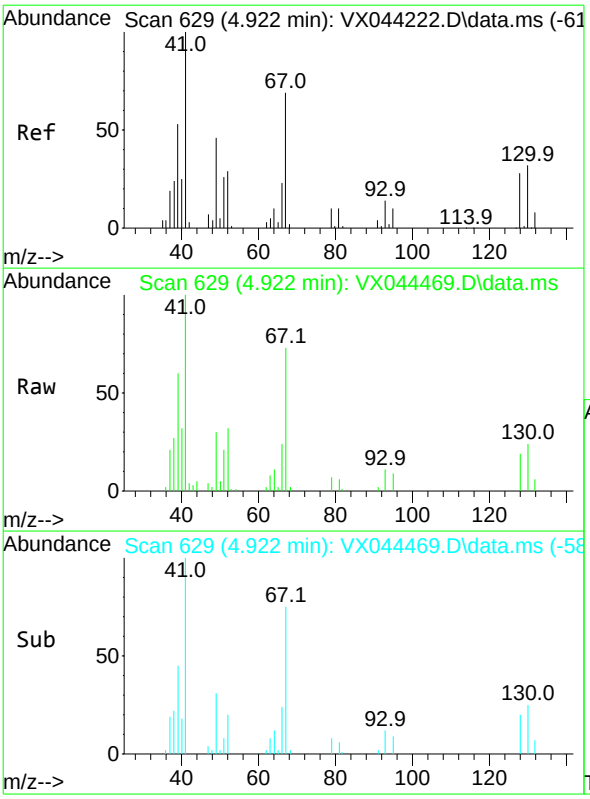


#40
Benzene
Concen: 23.238 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 78 Resp: 95198

Ion	Ratio	Lower	Upper
78	100		
77	22.4	19.3	28.9





#41
Methacrylonitrile
Concen: 19.516 ug/l
RT: 4.922 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

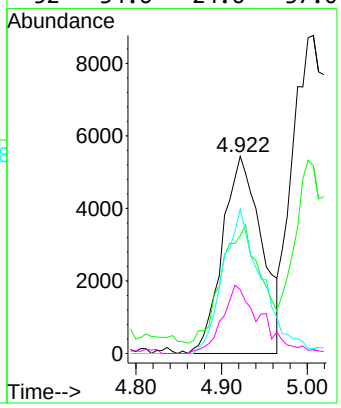
Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

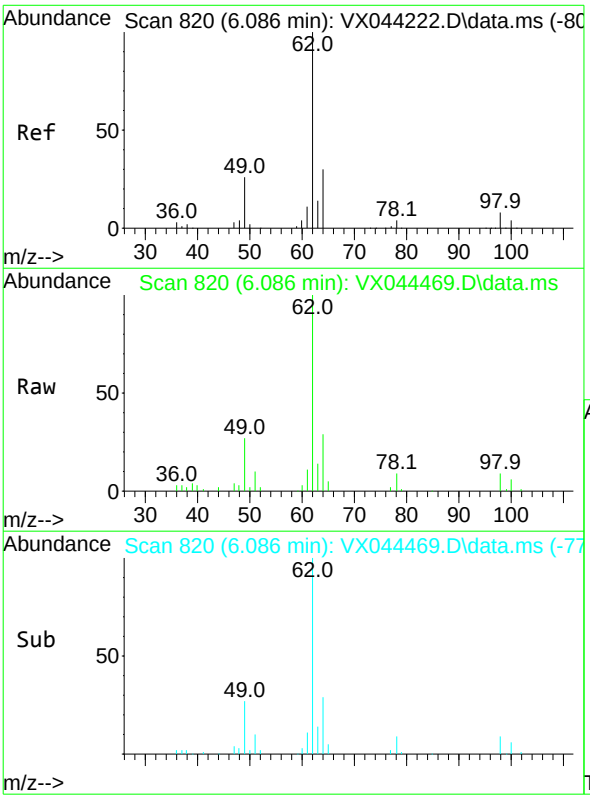
Tgt Ion: 41 Resp: 17284

Ion	Ratio	Lower	Upper
41	100		
39	60.1	44.2	66.4
67	72.6	57.2	85.8
52	34.6	24.6	37.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

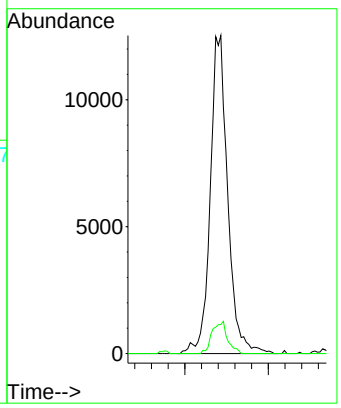


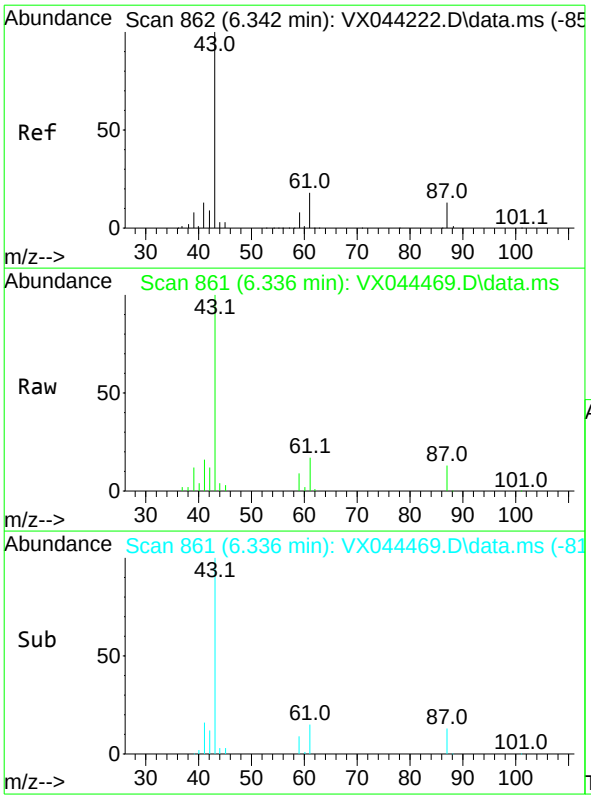


#42
1,2-Dichloroethane
Concen: 21.589 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 62 Resp: 36432

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	15.8





#43
Isopropyl Acetate
Concen: 19.640 ug/l
RT: 6.336 min Scan# 86
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

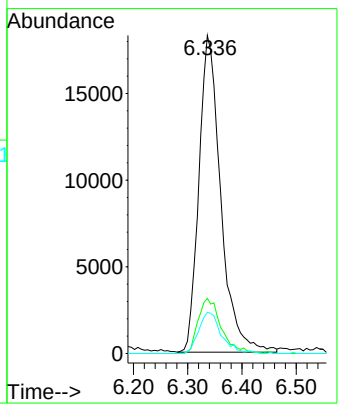
Tgt Ion: 43 Resp: 51199

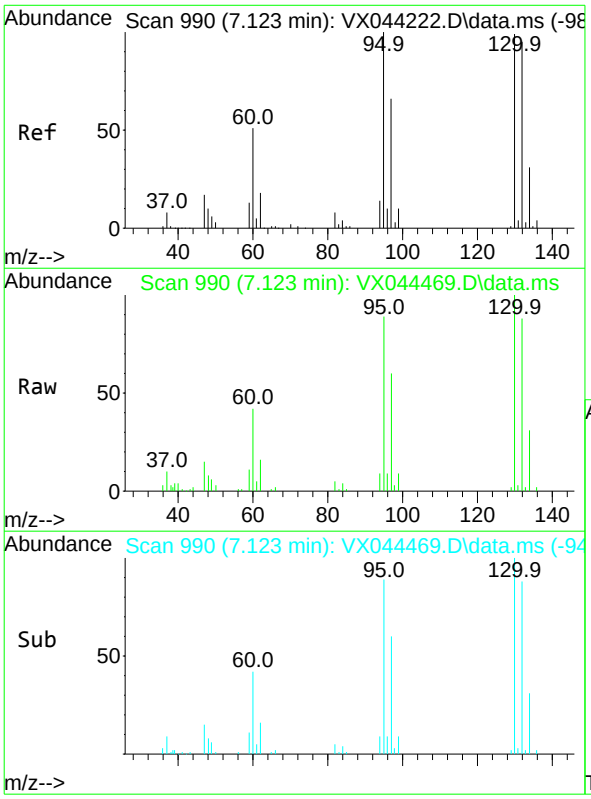
Ion	Ratio	Lower	Upper
43	100		
61	18.3	14.2	21.2
87	13.3	10.2	15.2

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

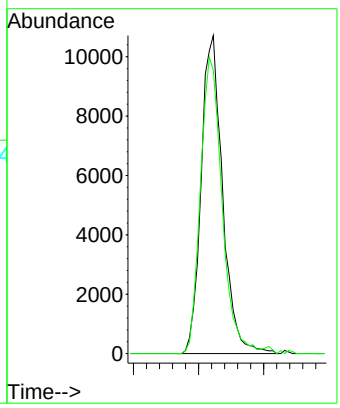


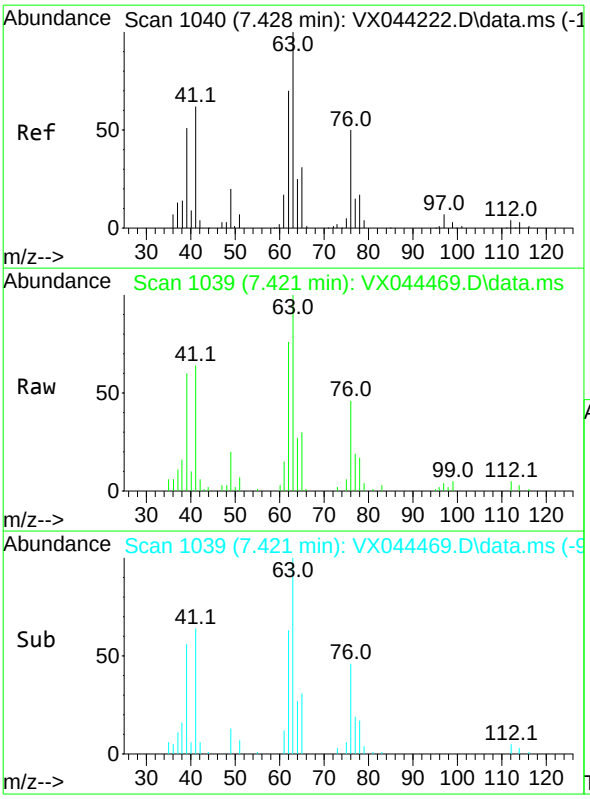


#44
Trichloroethene
Concen: 23.933 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:130 Resp: 24449

Ion	Ratio	Lower	Upper
130	100		
95	89.0	0.0	201.4

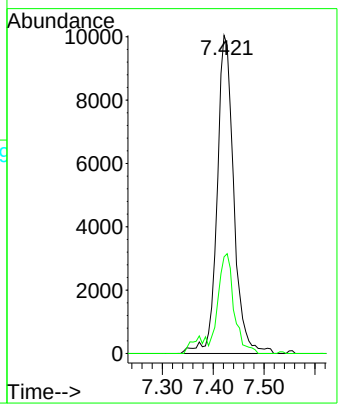




#45
1,2-Dichloropropane
Concen: 21.806 ug/l
RT: 7.421 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 63 Resp: 22822

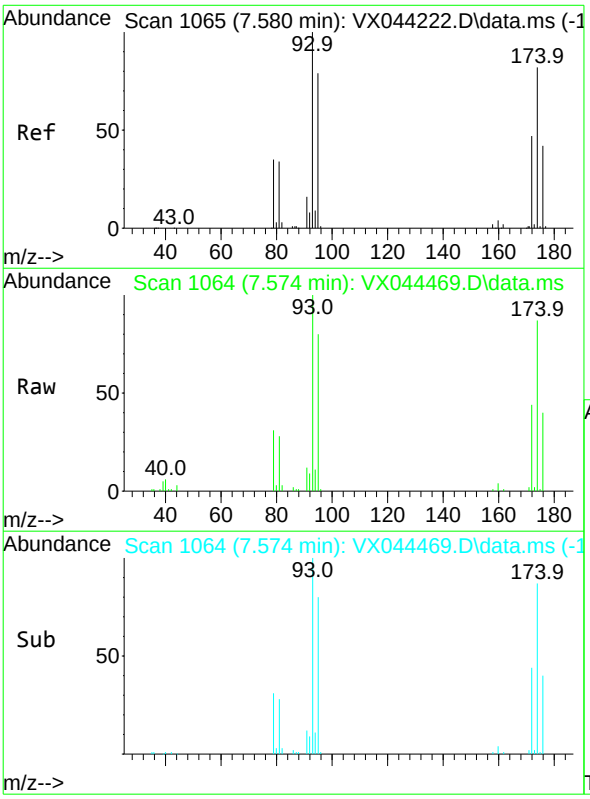
Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

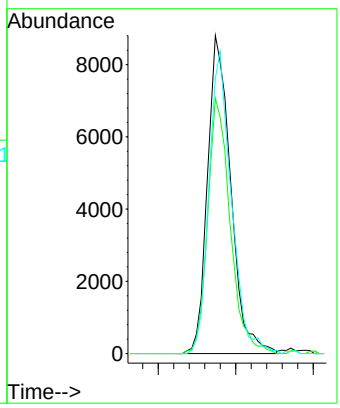
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

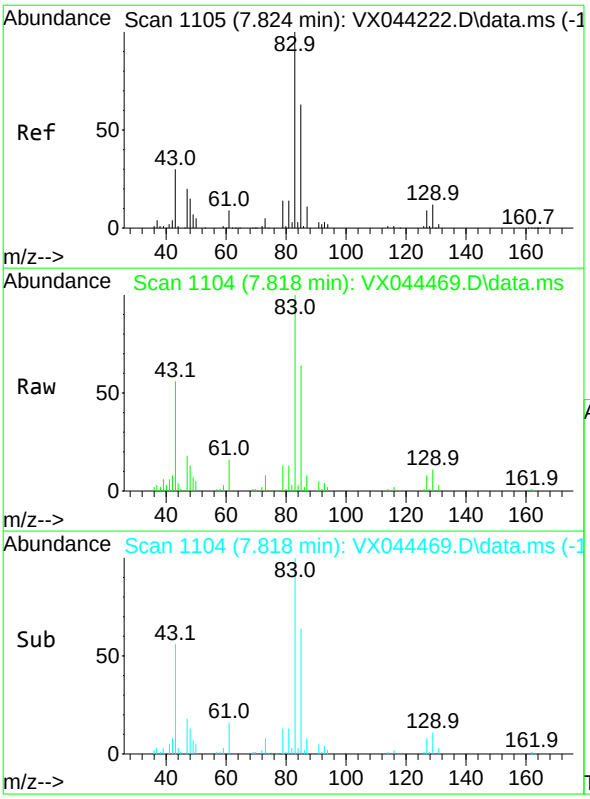


#46
Dibromomethane
Concen: 22.574 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 93 Resp: 18329

Ion	Ratio	Lower	Upper
93	100		
95	77.5	65.4	98.2
174	91.8	67.9	101.9

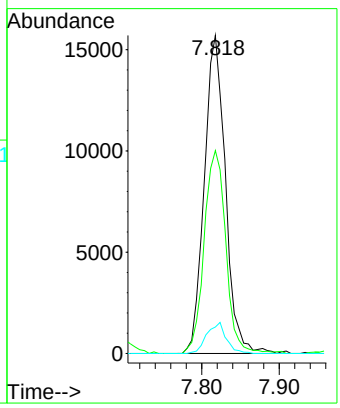




#47
Bromodichloromethane
Concen: 21.193 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 83 Resp: 29719

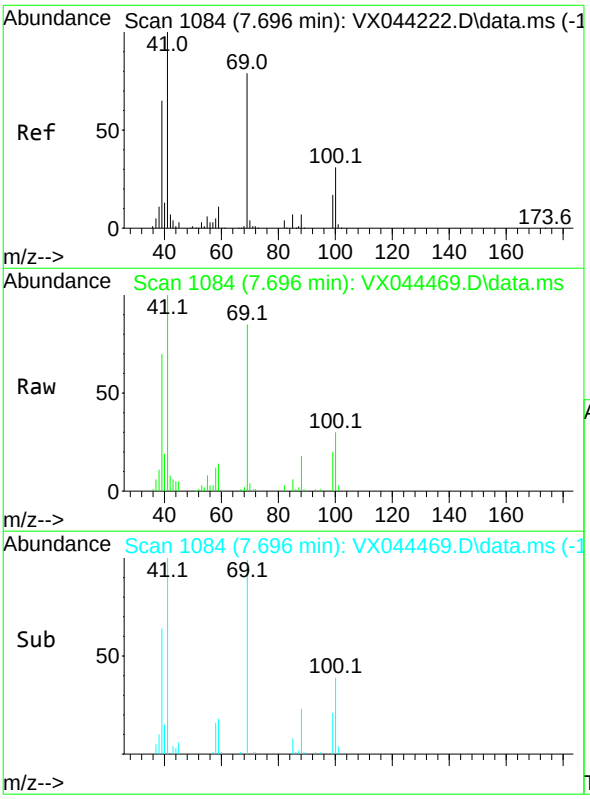
Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.6	75.8
127	8.3	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

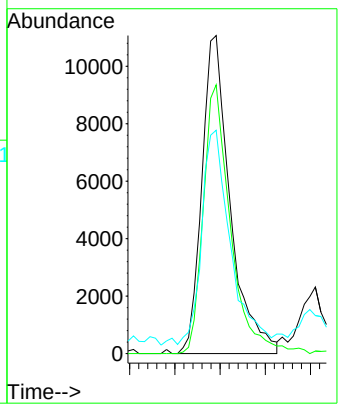
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

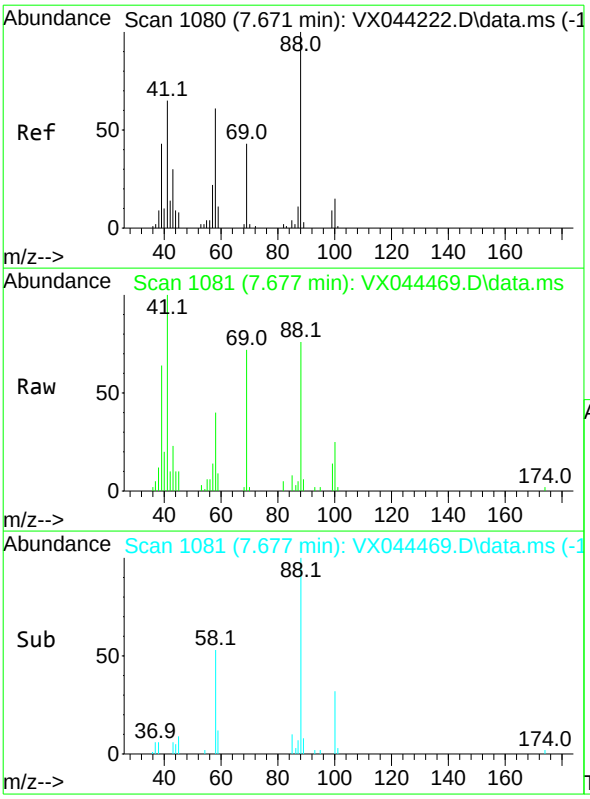


#48
Methyl methacrylate
Concen: 19.060 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 41 Resp: 24119

Ion	Ratio	Lower	Upper
41	100		
69	81.3	62.4	93.6
39	68.3	53.3	79.9





#49
1,4-Dioxane
Concen: 450.519 ug/l
RT: 7.677 min Scan# 10
Delta R.T. 0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

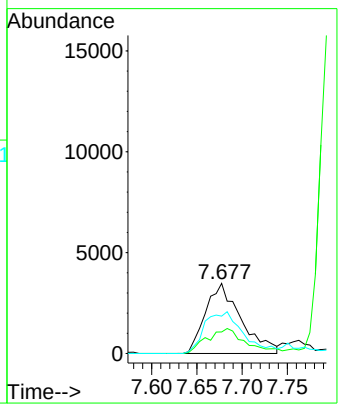
Tgt Ion: 88 Resp: 9452

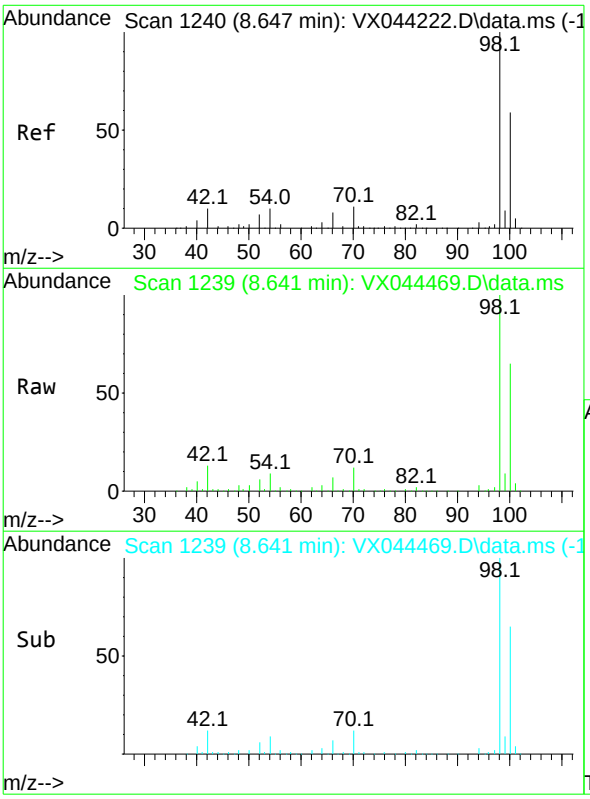
Ion	Ratio	Lower	Upper
88	100		
43	39.1	27.1	40.7
58	64.8	41.0	61.4#

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

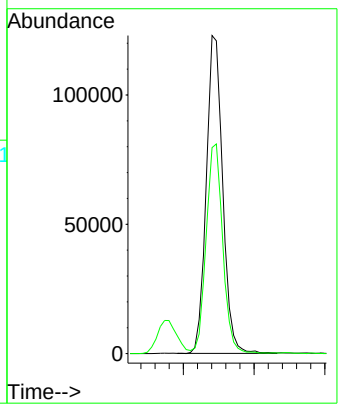


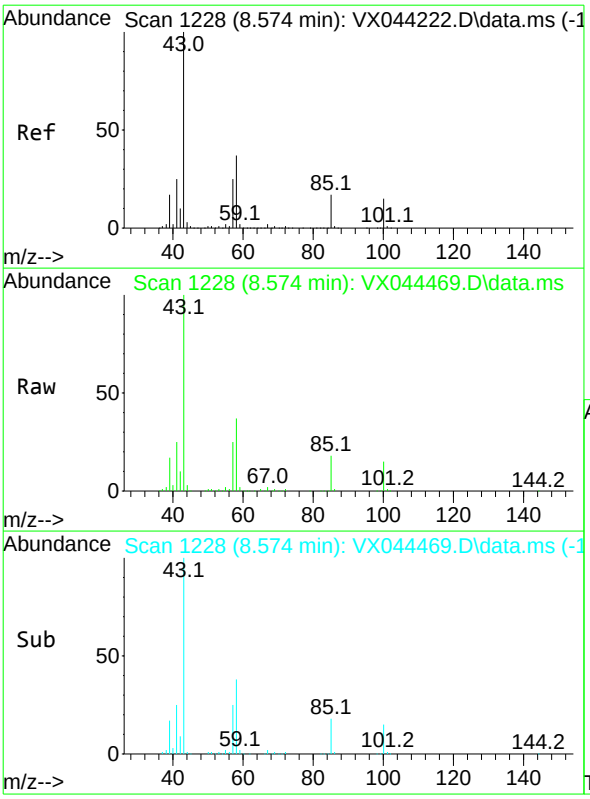


#50
Toluene-d8
Concen: 56.235 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 98 Resp: 198030

Ion	Ratio	Lower	Upper
98	100		
100	66.3	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 97.476 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

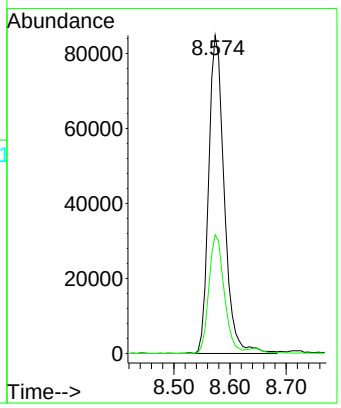
Tgt Ion: 43 Resp: 163383

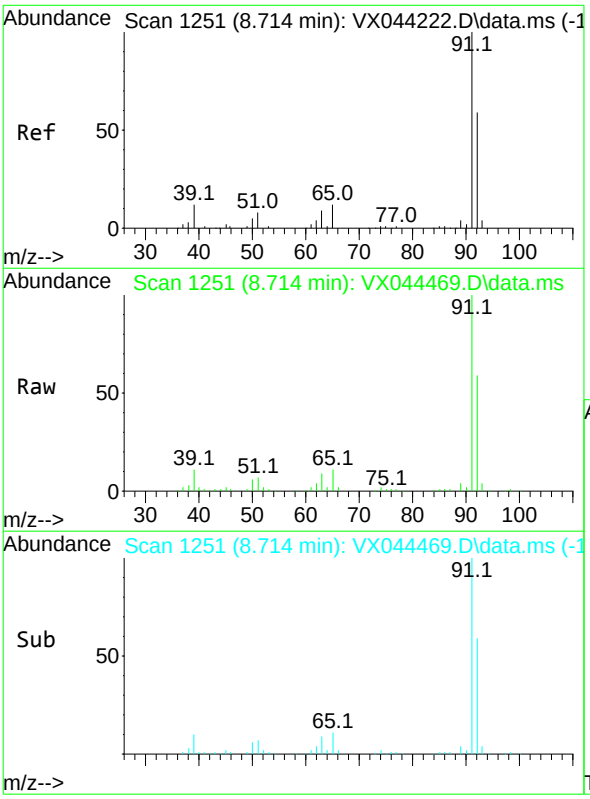
Ion	Ratio	Lower	Upper
43	100		
58	36.6	29.4	44.0

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

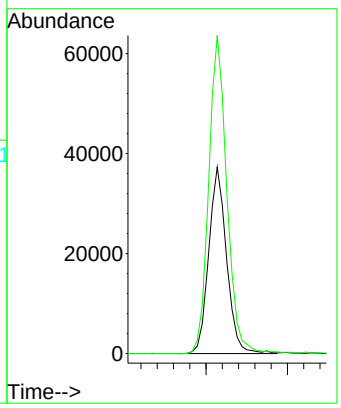


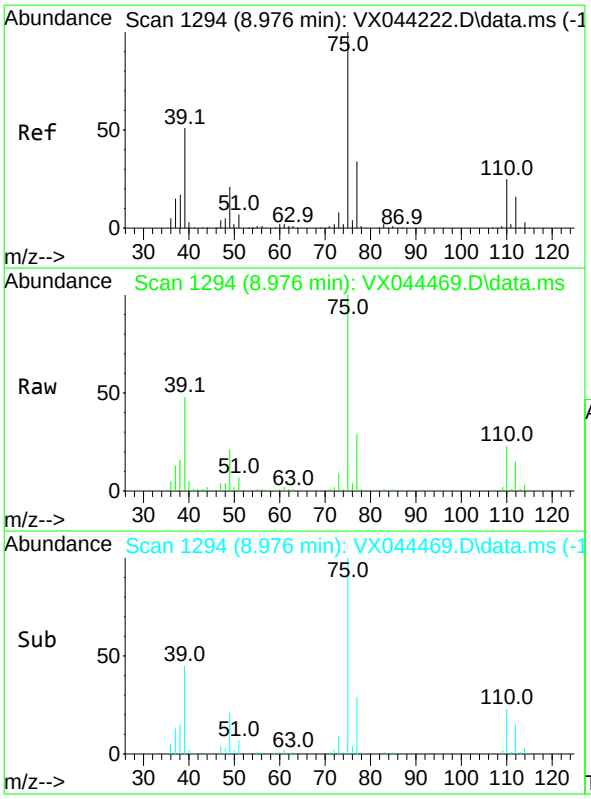


#52
Toluene
Concen: 22.108 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 92 Resp: 56873

Ion	Ratio	Lower	Upper
92	100		
91	173.5	137.0	205.6

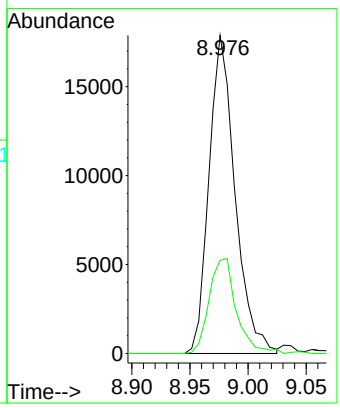




#53
t-1,3-Dichloropropene
Concen: 19.736 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 75 Resp: 27893

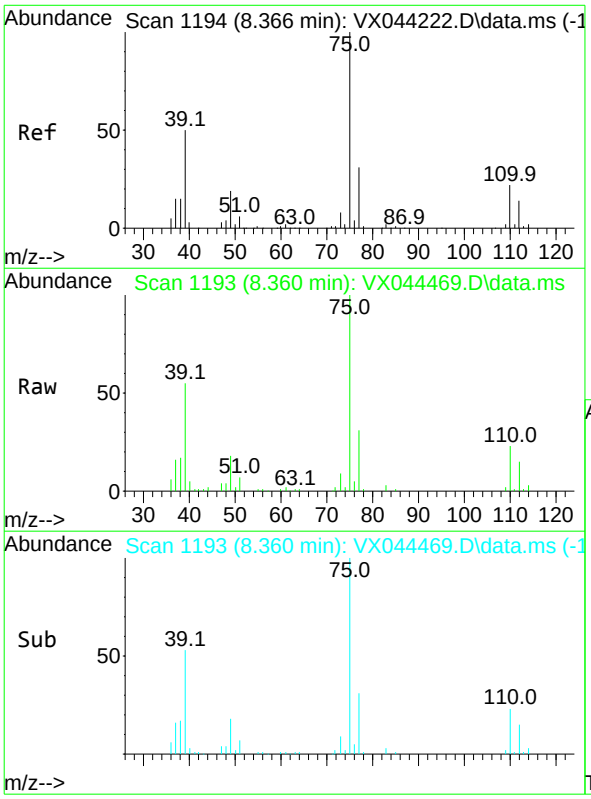
Ion	Ratio	Lower	Upper
75	100		
77	29.3	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

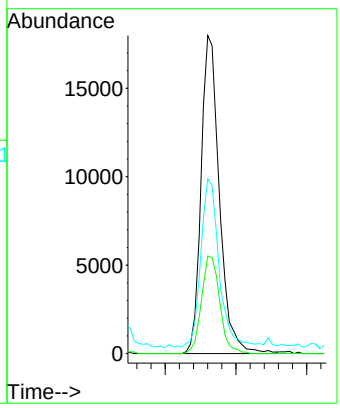
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

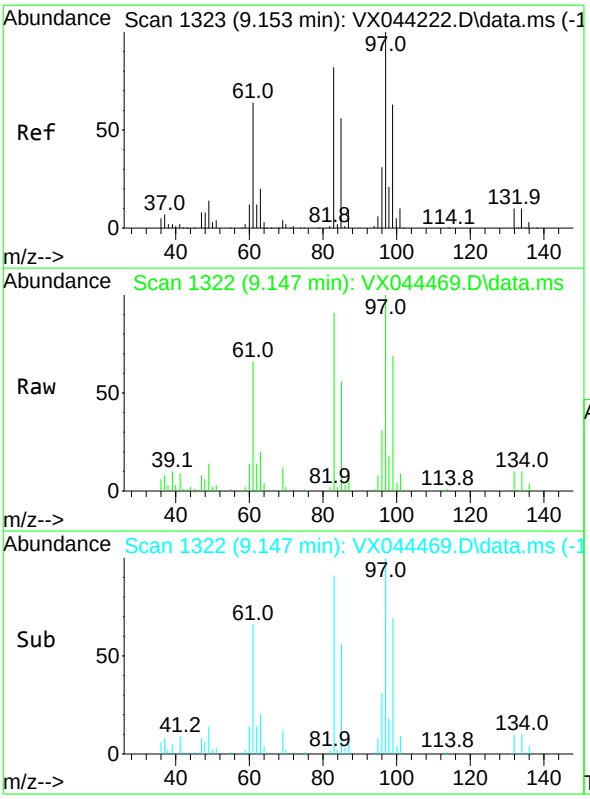


#54
cis-1,3-Dichloropropene
Concen: 21.192 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 75 Resp: 32357

Ion	Ratio	Lower	Upper
75	100		
77	30.7	24.7	37.1
39	52.5	40.3	60.5

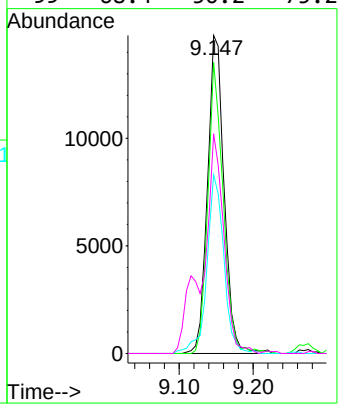




#55
1,1,2-Trichloroethane
Concen: 22.615 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 97 Resp: 23112

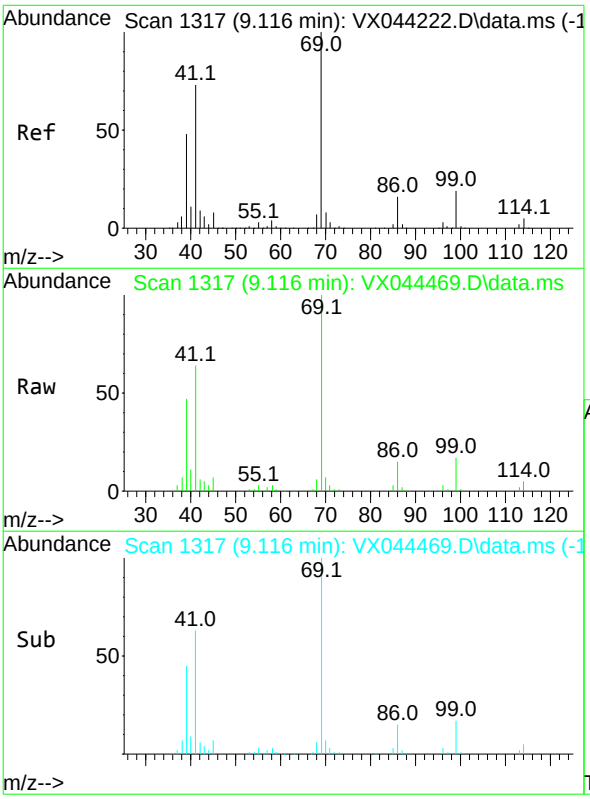
Ion	Ratio	Lower	Upper
97	100		
83	91.5	65.3	97.9
85	56.2	44.6	67.0
99	68.4	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

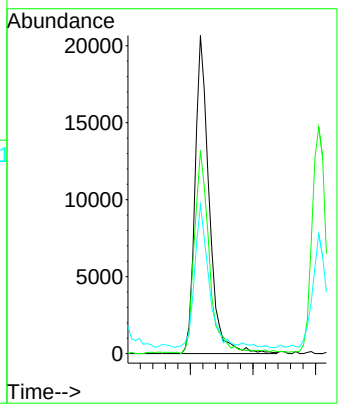
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

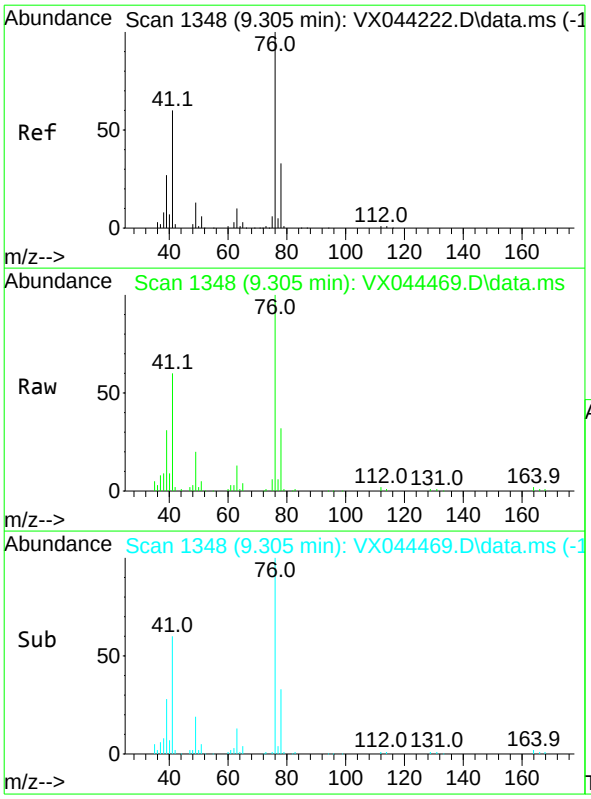


#56
Ethyl methacrylate
Concen: 20.051 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 69 Resp: 32351

Ion	Ratio	Lower	Upper
69	100		
41	65.5	56.6	85.0
39	44.7	37.4	56.0

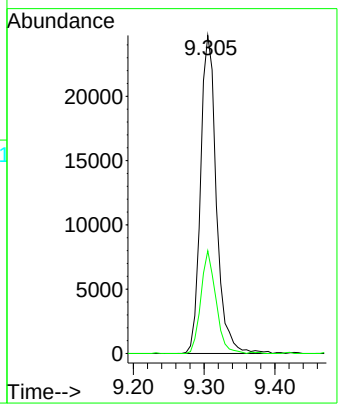




#57
1,3-Dichloropropane
Concen: 21.618 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 76 Resp: 38455

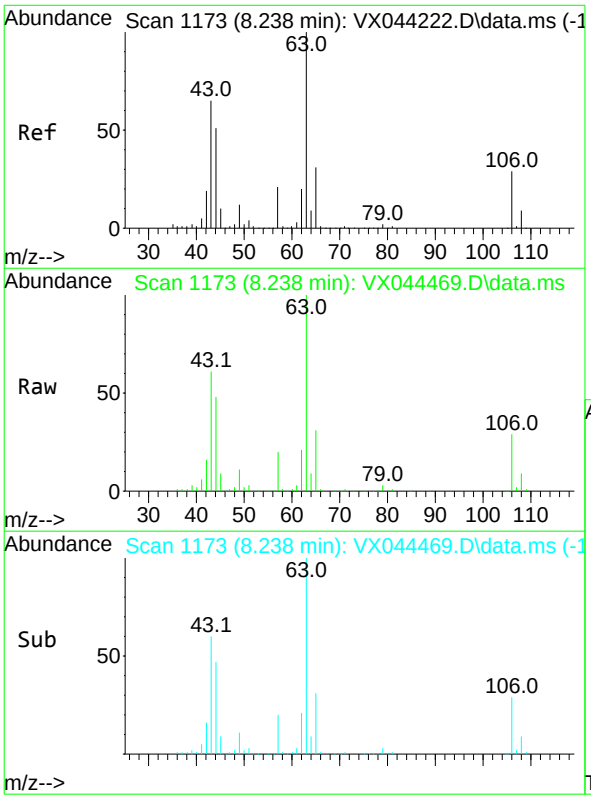
Ion	Ratio	Lower	Upper
76	100		
78	30.7	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

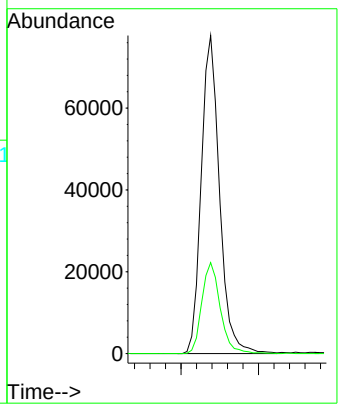
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

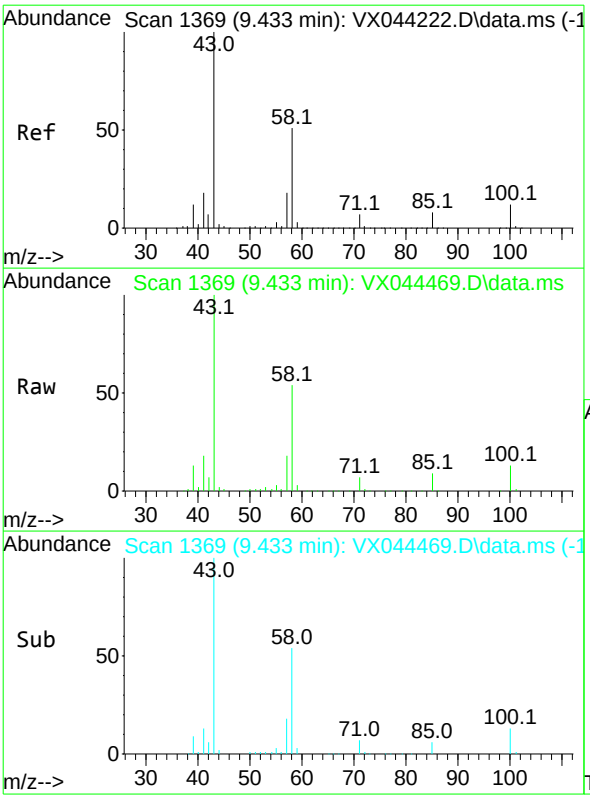


#58
2-Chloroethyl Vinyl ether
Concen: 156.417 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 63 Resp: 127285

Ion	Ratio	Lower	Upper
63	100		
106	28.8	22.8	34.2





#59
2-Hexanone
Concen: 97.567 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

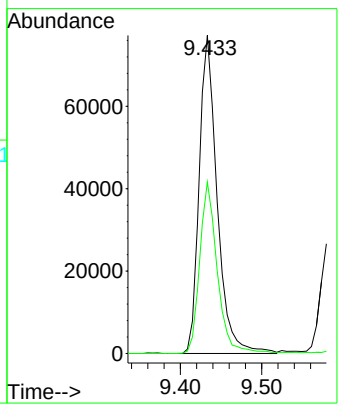
Tgt Ion: 43 Resp: 118371

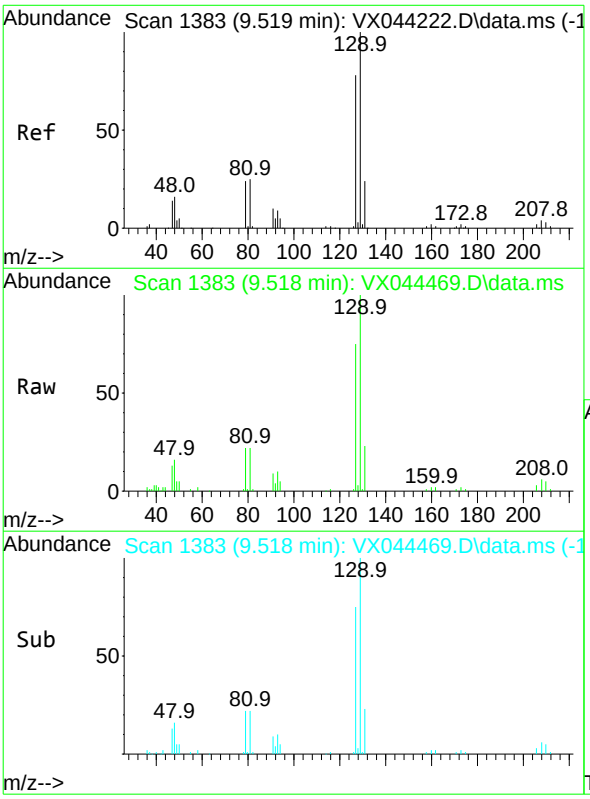
Ion	Ratio	Lower	Upper
43	100		
58	52.7	25.7	77.0

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

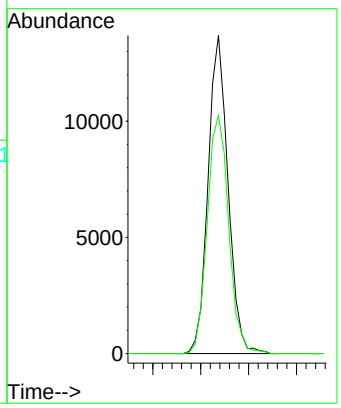


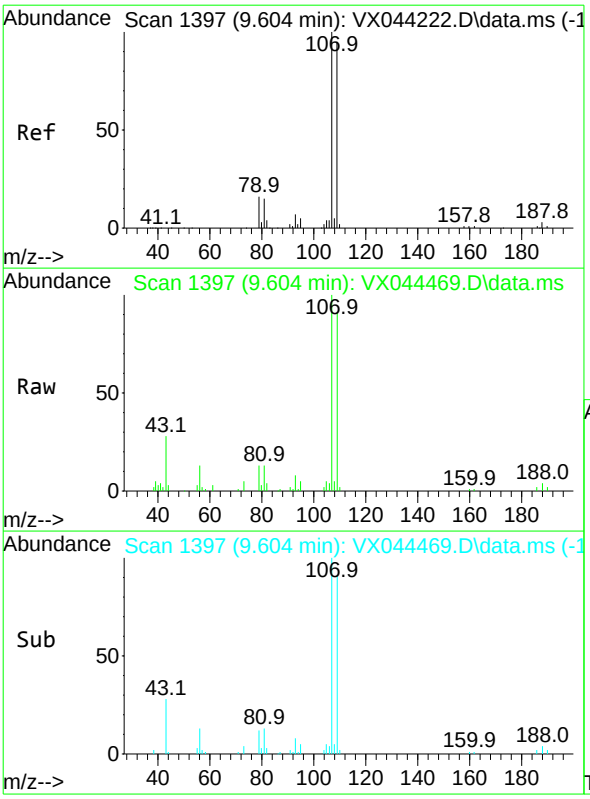


#60
Dibromochloromethane
Concen: 19.577 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:129 Resp: 19798

Ion	Ratio	Lower	Upper
129	100		
127	80.4	38.5	115.3





#61
1,2-Dibromoethane
Concen: 21.936 ug/l
RT: 9.604 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

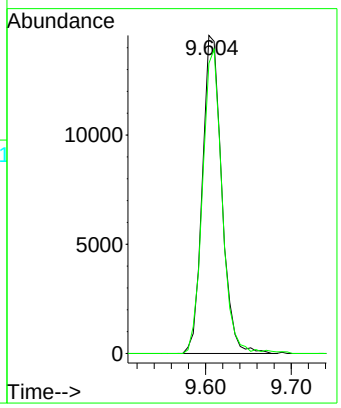
Tgt Ion:107 Resp: 22820

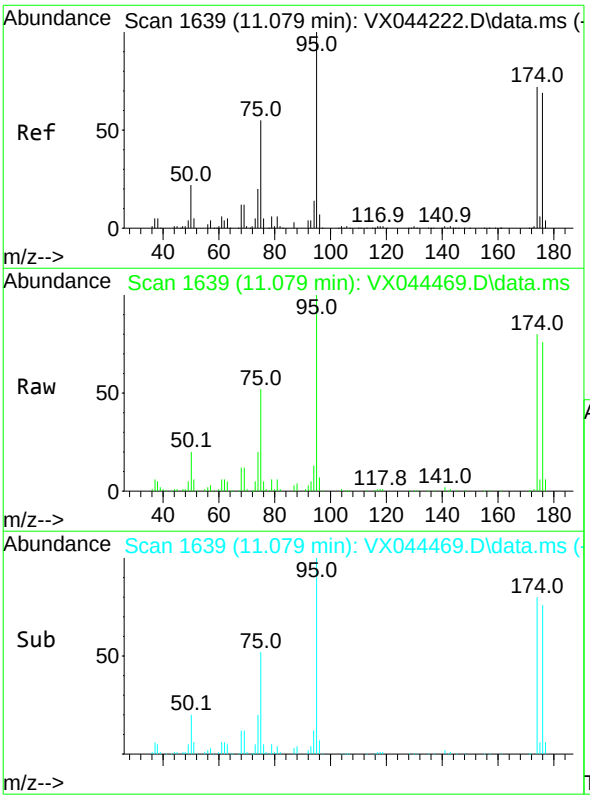
Ion	Ratio	Lower	Upper
107	100		
109	96.8	77.0	115.4

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

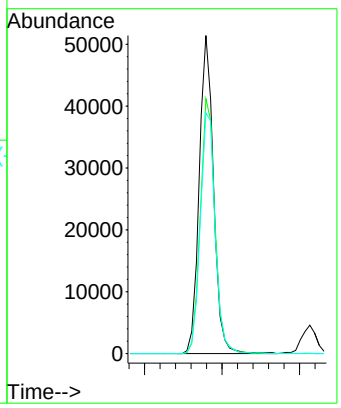


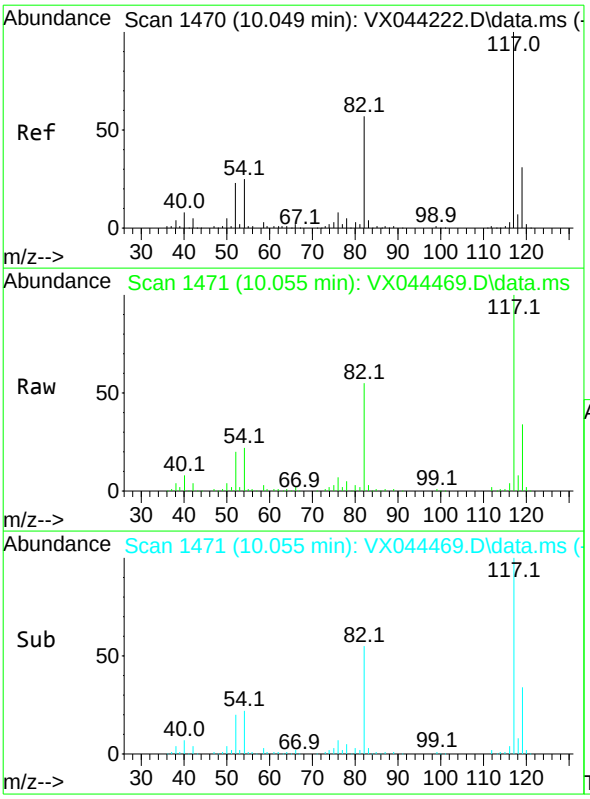


#62
4-Bromofluorobenzene
Concen: 53.447 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 95 Resp: 65766

Ion	Ratio	Lower	Upper
95	100		
174	82.2	0.0	145.8
176	78.9	0.0	137.8

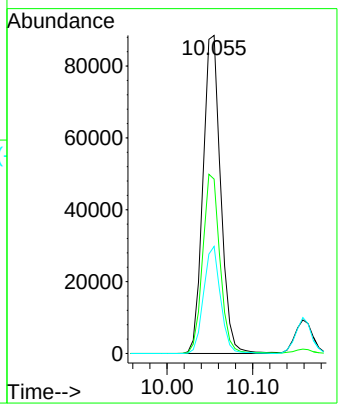




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:117 Resp: 126811

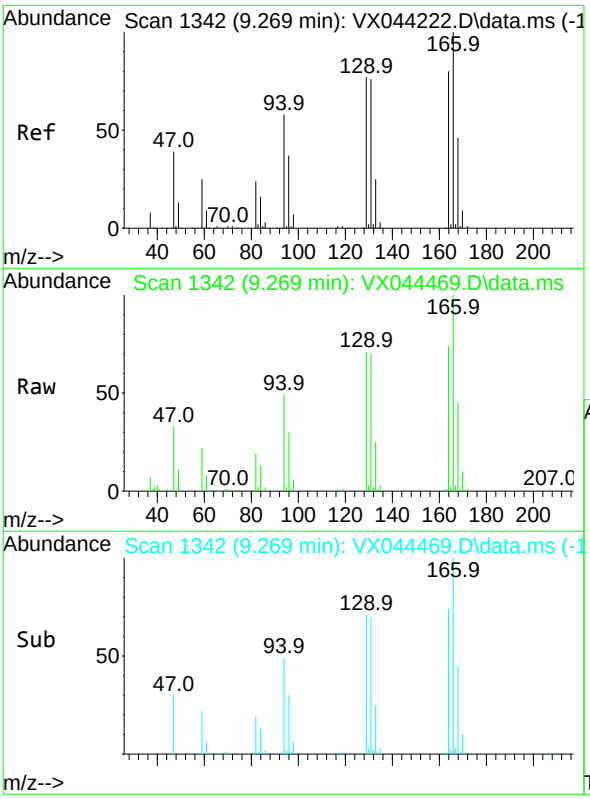
Ion	Ratio	Lower	Upper
117	100		
82	54.8	45.8	68.8
119	33.7	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

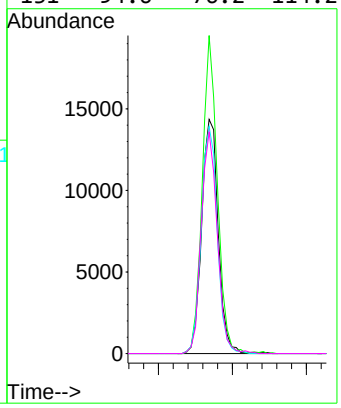
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

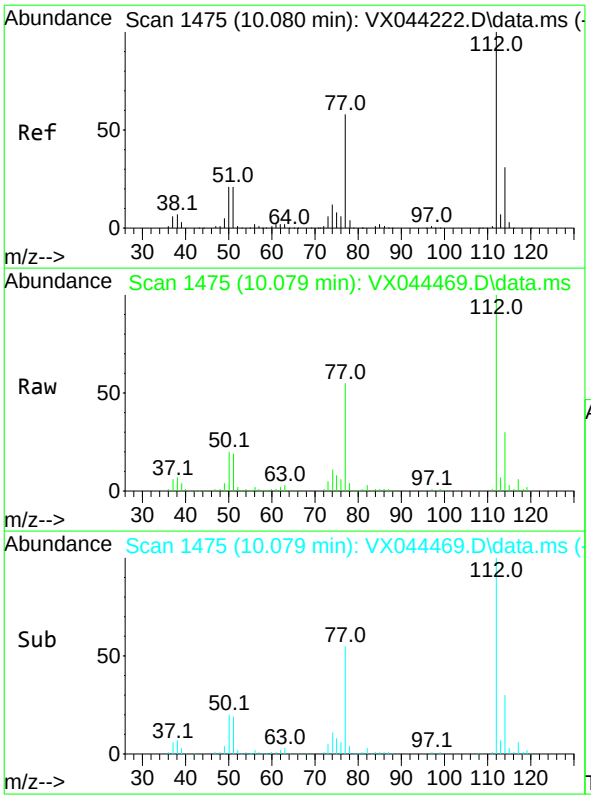


#64
Tetrachloroethene
Concen: 26.525 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:164 Resp: 22325

Ion	Ratio	Lower	Upper
164	100		
166	135.8	100.4	150.6
129	96.9	77.2	115.8
131	94.6	76.2	114.2

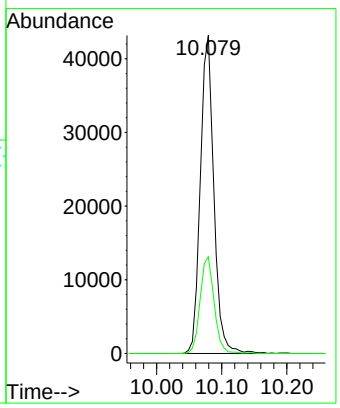




#65
Chlorobenzene
Concen: 22.871 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:112 Resp: 62148

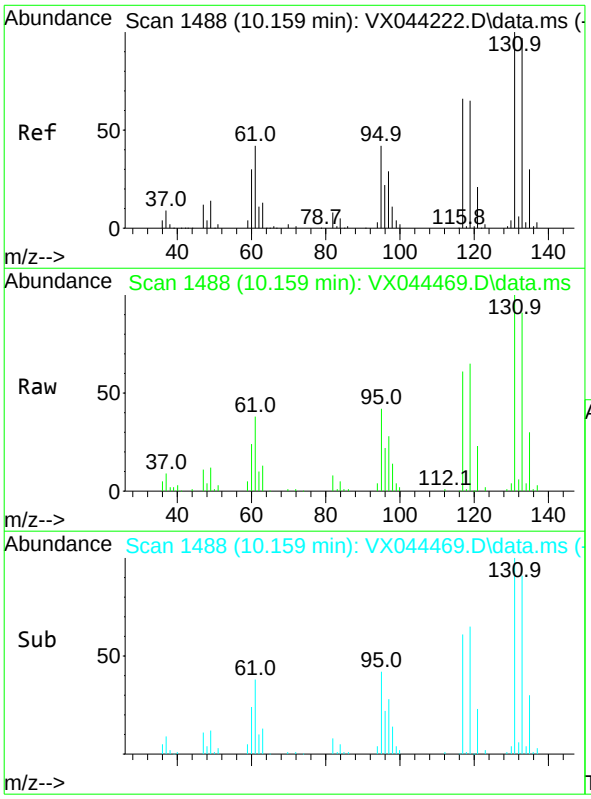
Ion	Ratio	Lower	Upper
112	100		
114	30.4	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

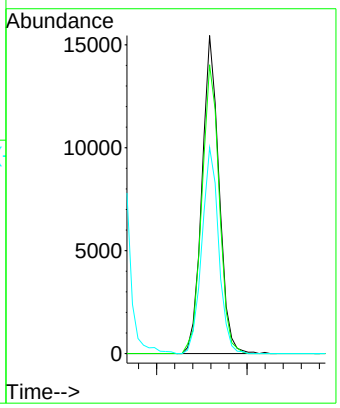
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

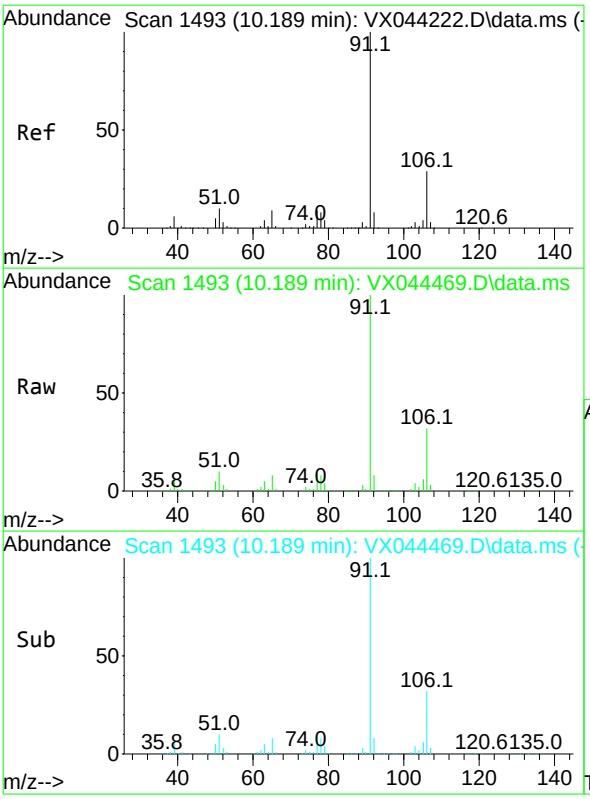


#66
1,1,1,2-Tetrachloroethane
Concen: 23.120 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:131 Resp: 20191

Ion	Ratio	Lower	Upper
131	100		
133	92.4	47.3	141.8
119	64.0	31.6	95.0

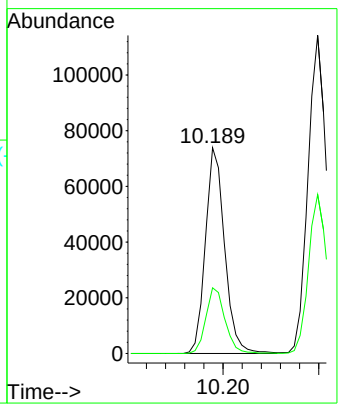




#67
Ethyl Benzene
Concen: 21.919 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 91 Resp: 102912

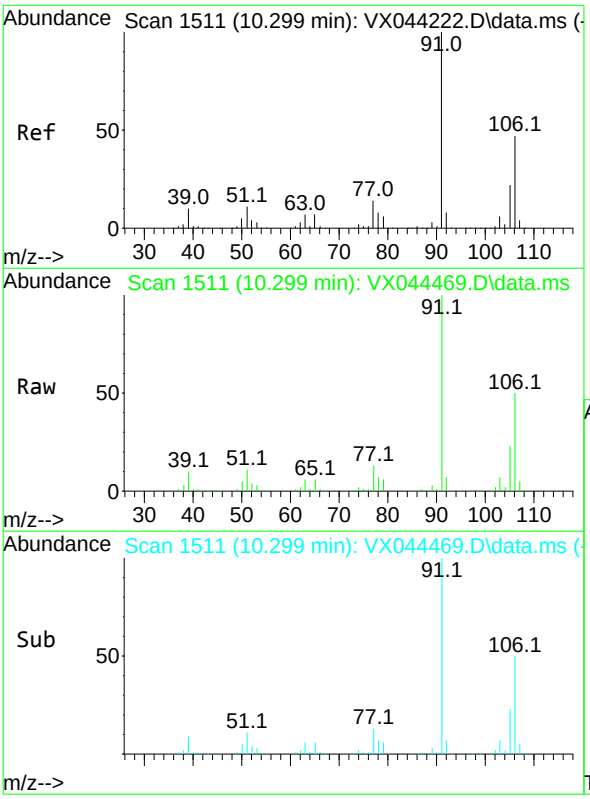
Ion	Ratio	Lower	Upper
91	100		
106	31.9	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

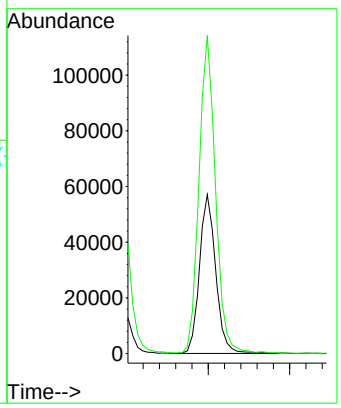
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

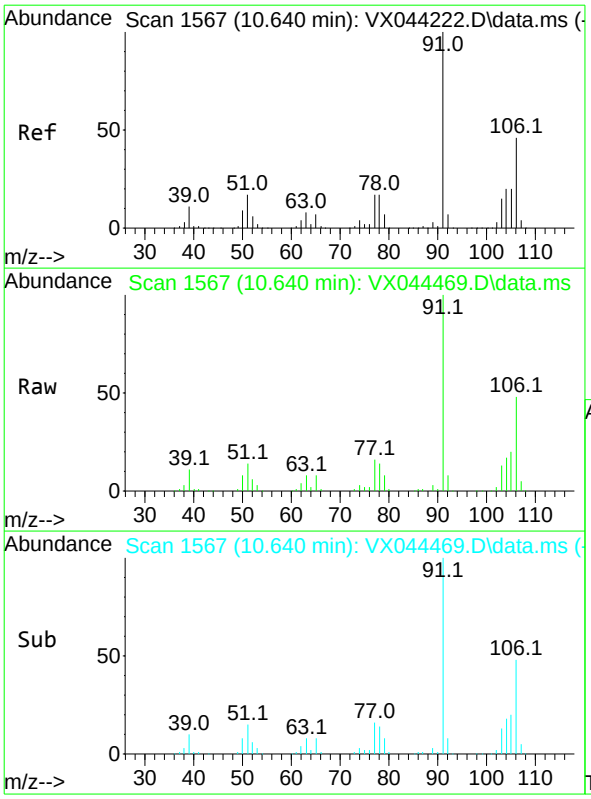


#68
m/p-Xylenes
Concen: 45.884 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:106 Resp: 79048

Ion	Ratio	Lower	Upper
106	100		
91	201.4	170.2	255.2

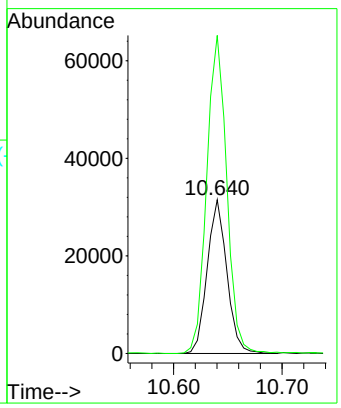




#69
o-Xylene
Concen: 22.757 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:106 Resp: 39669

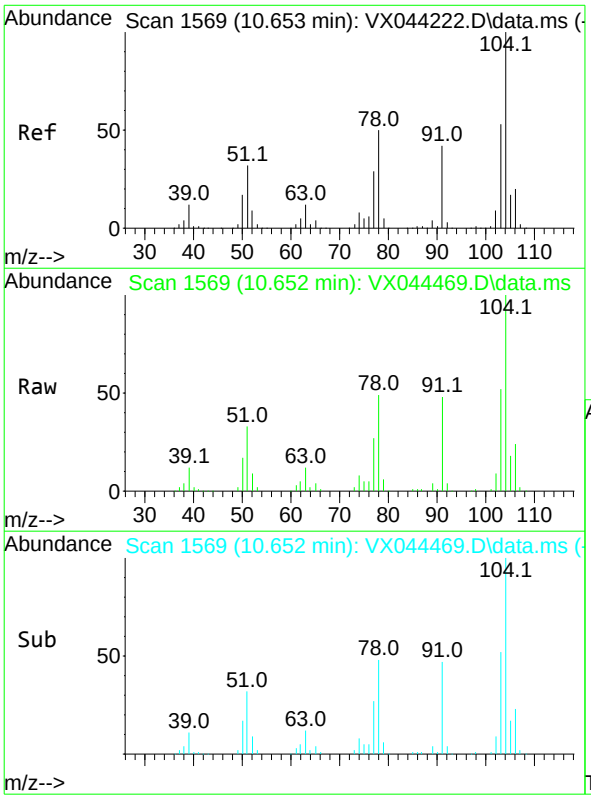
Ion	Ratio	Lower	Upper
106	100		
91	211.0	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

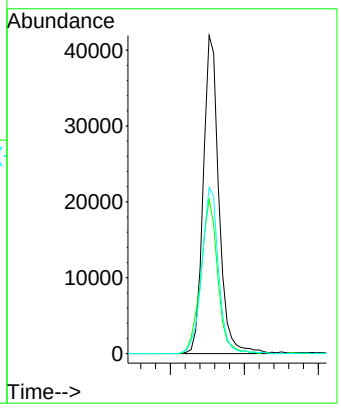
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

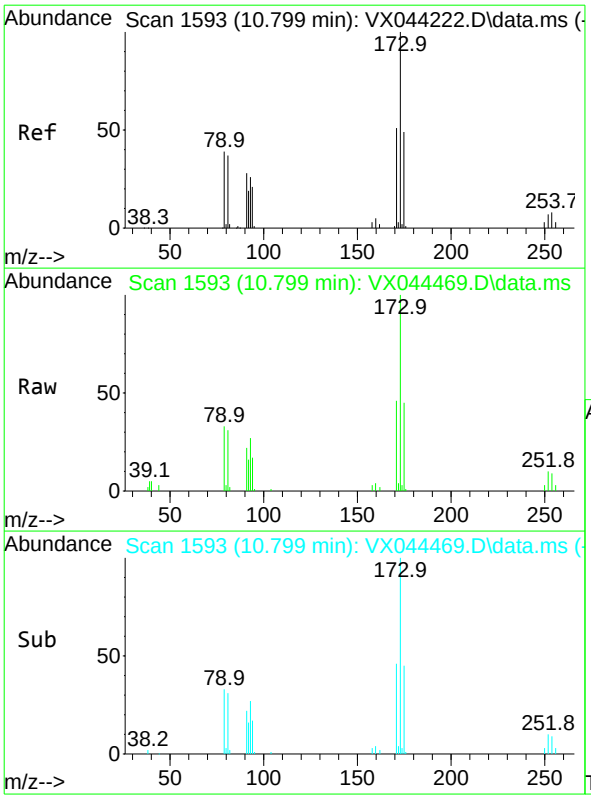


#70
Styrene
Concen: 22.042 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:104 Resp: 61594

Ion	Ratio	Lower	Upper
104	100		
78	52.7	44.6	67.0
103	55.9	45.4	68.0





#71
Bromoform
Concen: 21.588 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

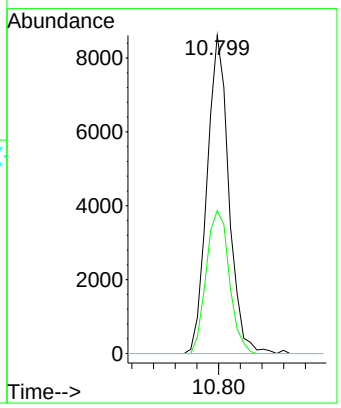
Tgt Ion:173 Resp: 11959

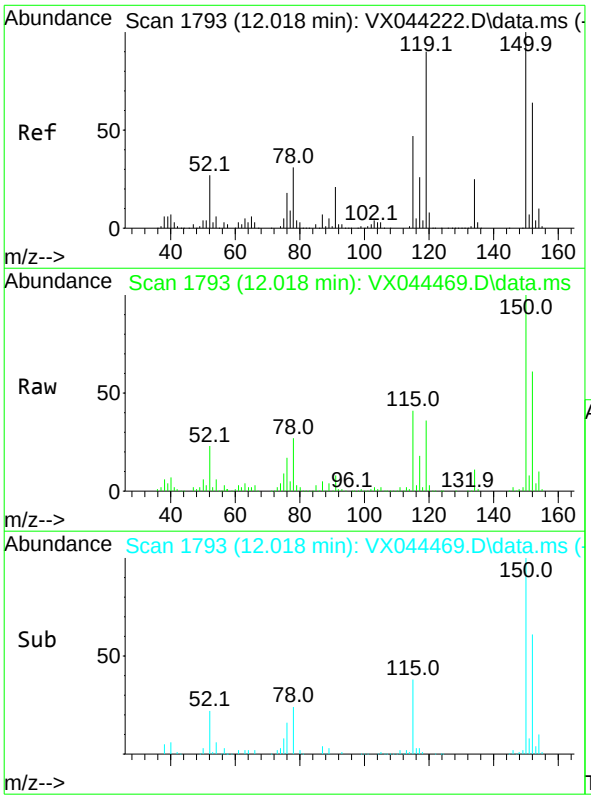
Ion	Ratio	Lower	Upper
173	100		
175	47.7	23.8	71.4
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

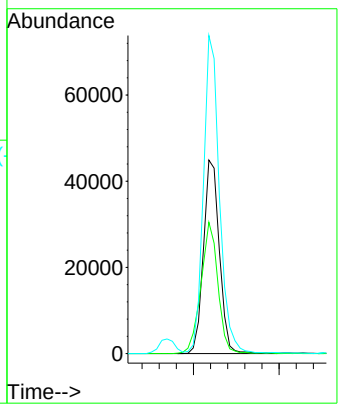


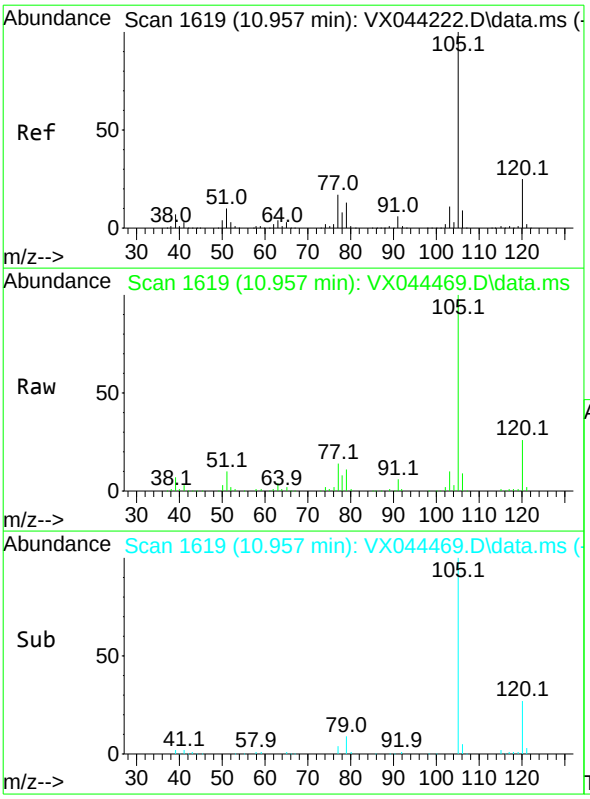


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:152 Resp: 57944

Ion	Ratio	Lower	Upper
152	100		
115	72.5	44.5	133.3
150	164.1	0.0	353.8

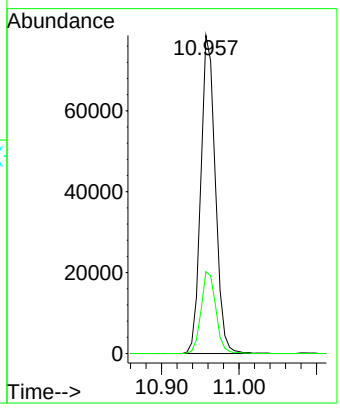




#73
Isopropylbenzene
Concen: 23.041 ug/l
RT: 10.957 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:105 Resp: 102207

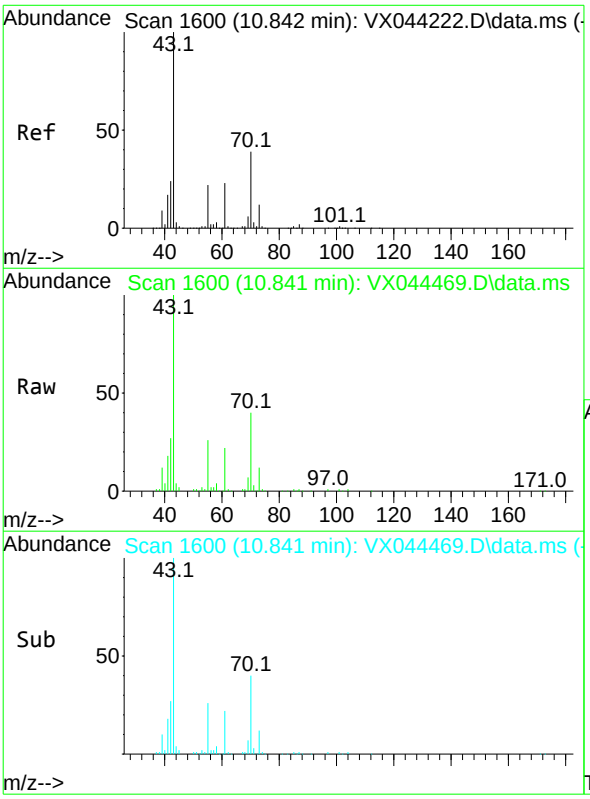
Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

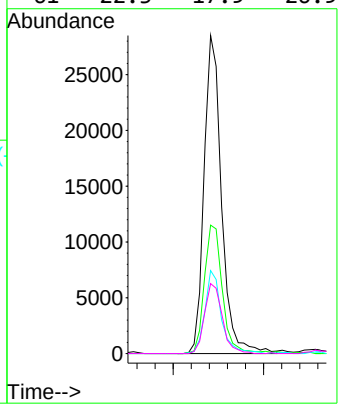
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

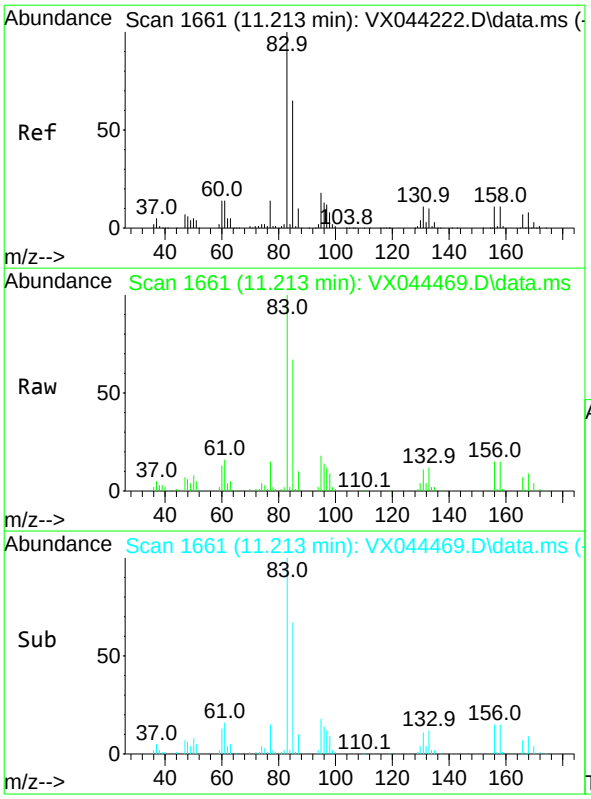


#74
N-amyl acetate
Concen: 18.694 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 43 Resp: 38323

Ion	Ratio	Lower	Upper
43	100		
70	42.0	31.9	47.9
55	24.7	17.9	26.9
61	22.3	17.9	26.9





#75
1,1,2,2-Tetrachloroethane
Concen: 22.286 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

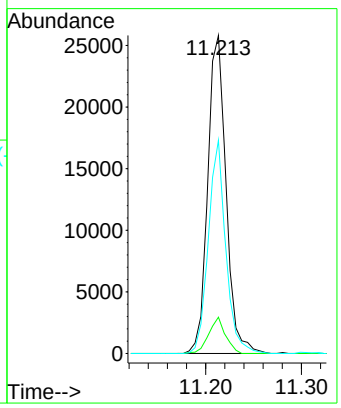
Tgt Ion: 83 Resp: 34336

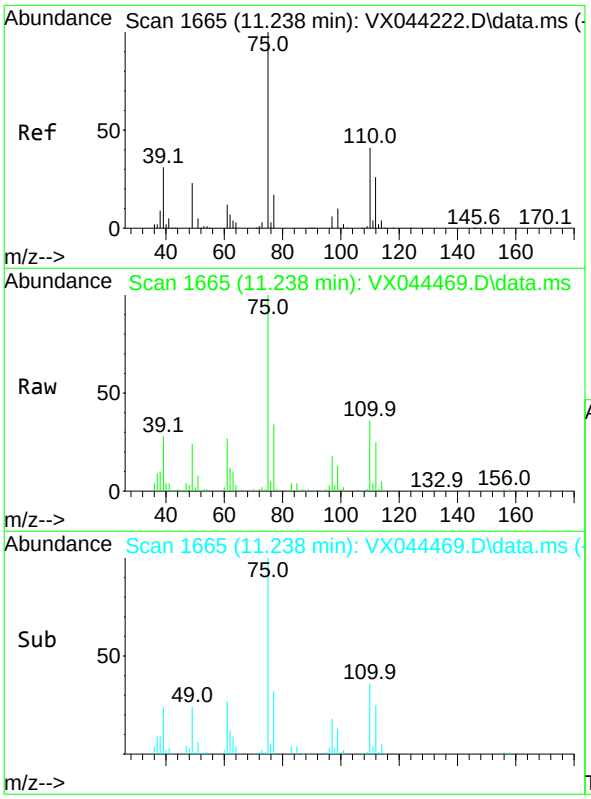
Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.1	15.4
85	63.9	32.5	97.4

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

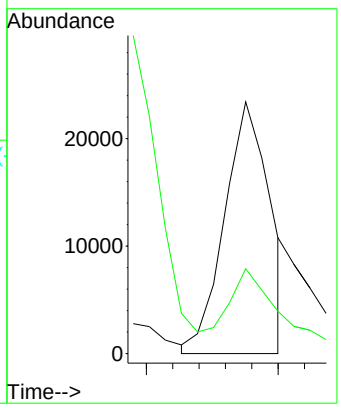


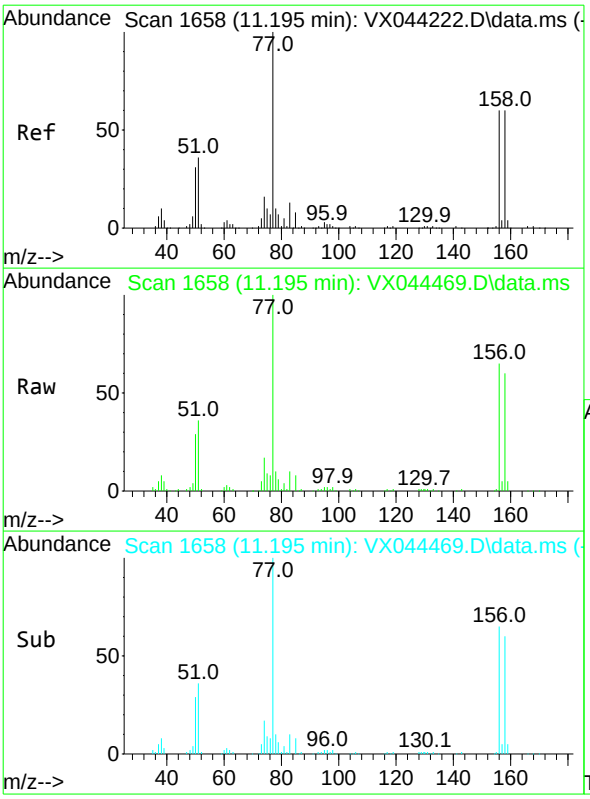


#76
1,2,3-Trichloropropane
Concen: 21.661 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 75 Resp: 28024

Ion	Ratio	Lower	Upper
75	100		
77	40.8	20.9	62.7





#77
Bromobenzene
Concen: 24.172 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

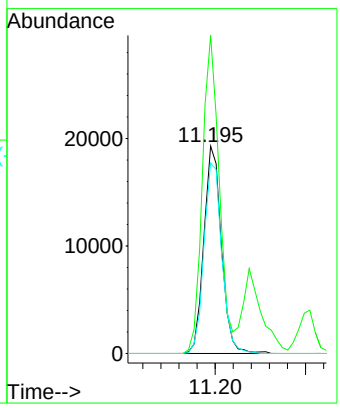
Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

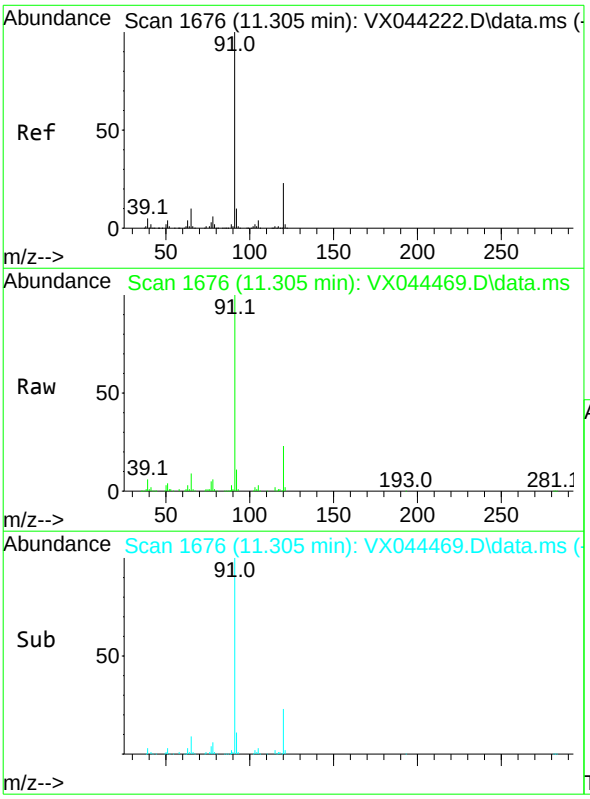
Tgt Ion:156 Resp: 26001

Ion	Ratio	Lower	Upper
156	100		
77	147.2	82.6	247.8
158	93.6	48.8	146.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

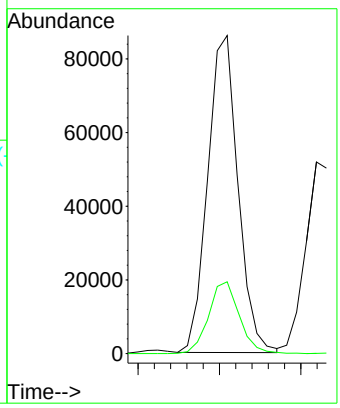


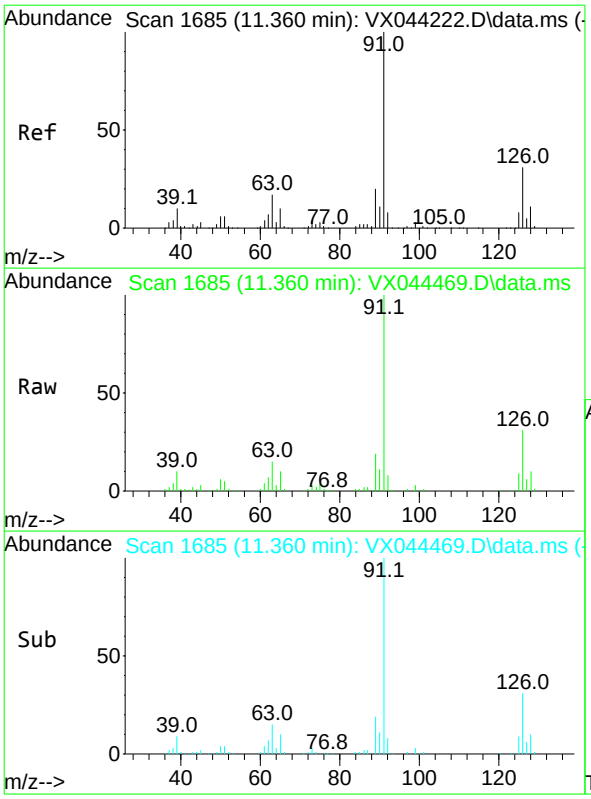


#78
n-propylbenzene
Concen: 22.763 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 91 Resp: 111601

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.0	33.0

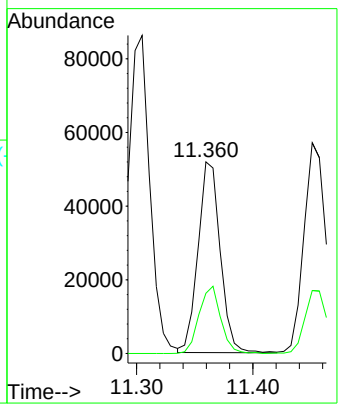




#79
2-Chlorotoluene
Concen: 21.700 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 91 Resp: 68806

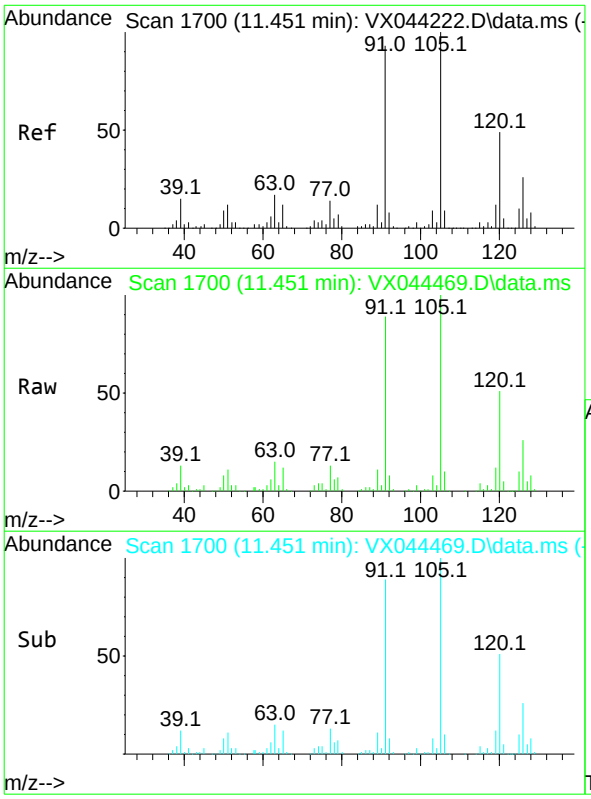
Ion	Ratio	Lower	Upper
91	100		
126	34.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

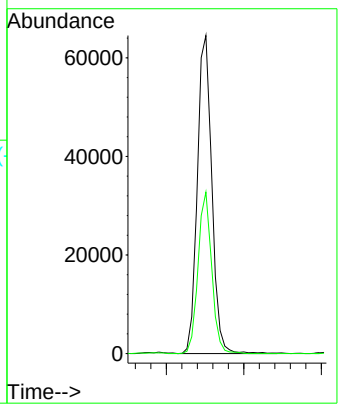
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

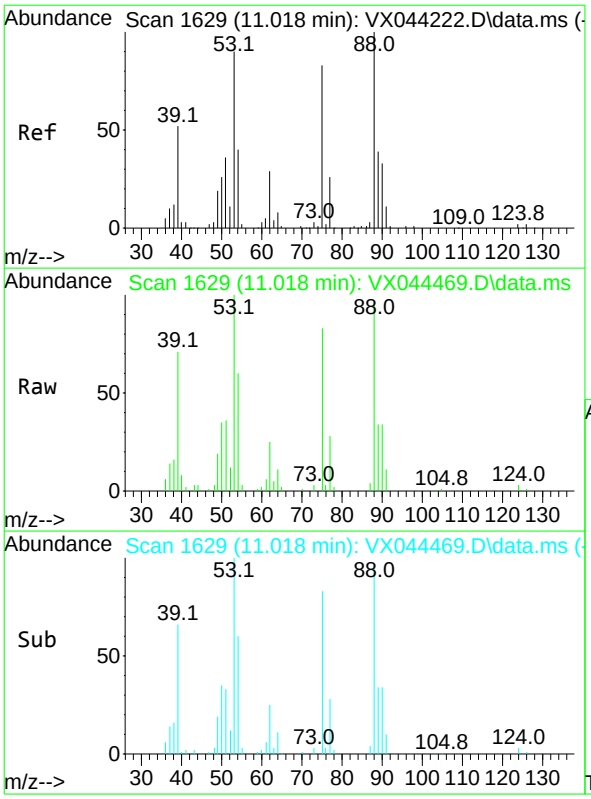


#80
1,3,5-Trimethylbenzene
Concen: 22.760 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:105 Resp: 83725

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.8	71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 20.774 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

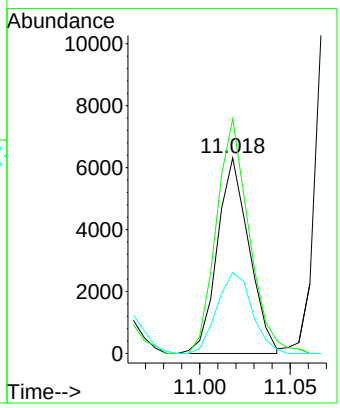
Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

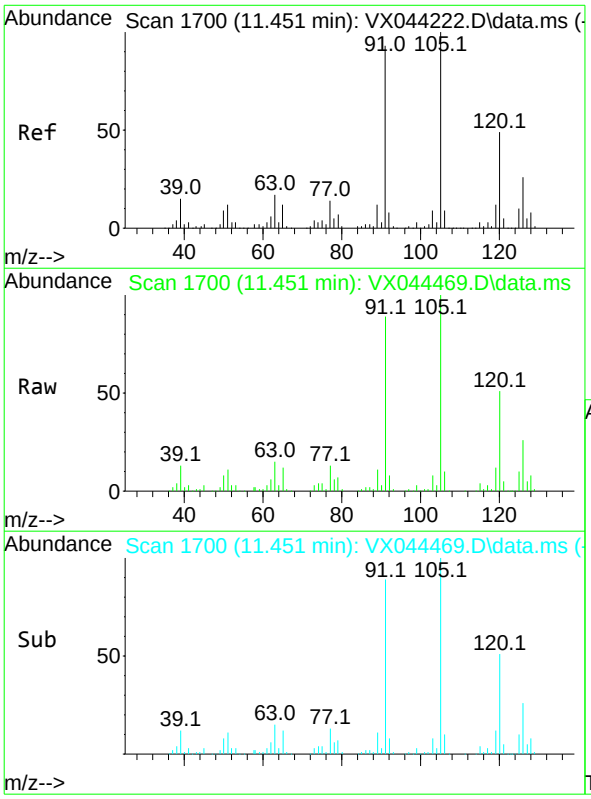
Tgt Ion: 75 Resp: 7722

Ion	Ratio	Lower	Upper
75	100		
53	123.4	93.6	140.4
89	45.7	37.3	55.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

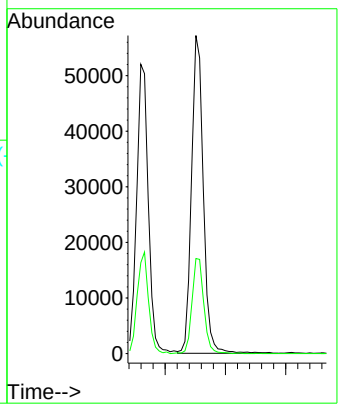


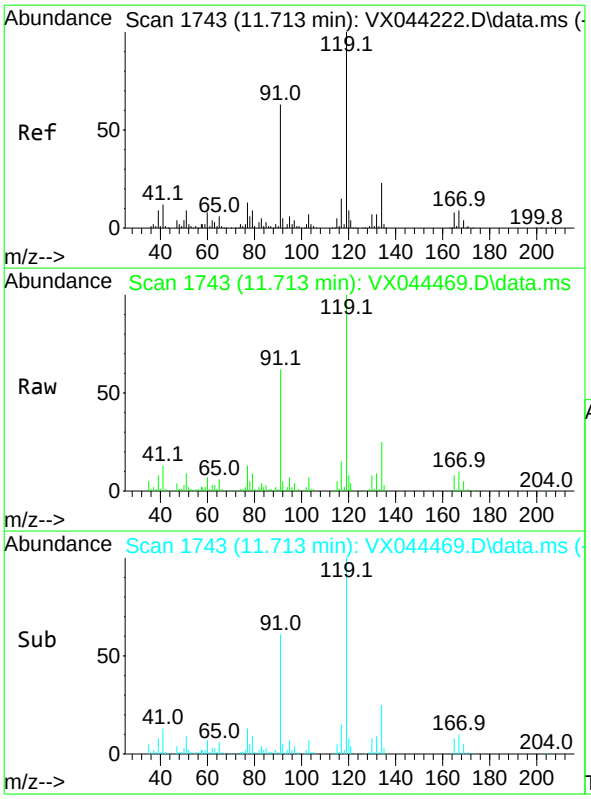


#82
4-Chlorotoluene
Concen: 22.089 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 91 Resp: 77558

Ion	Ratio	Lower	Upper
91	100		
126	30.0	14.5	43.5

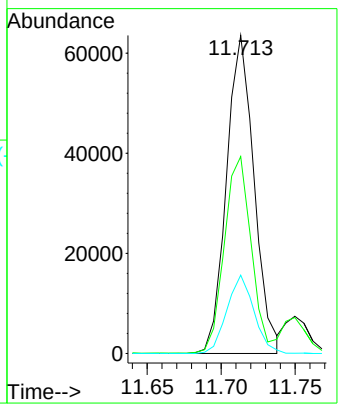




#83
tert-Butylbenzene
Concen: 22.698 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:119 Resp: 82519

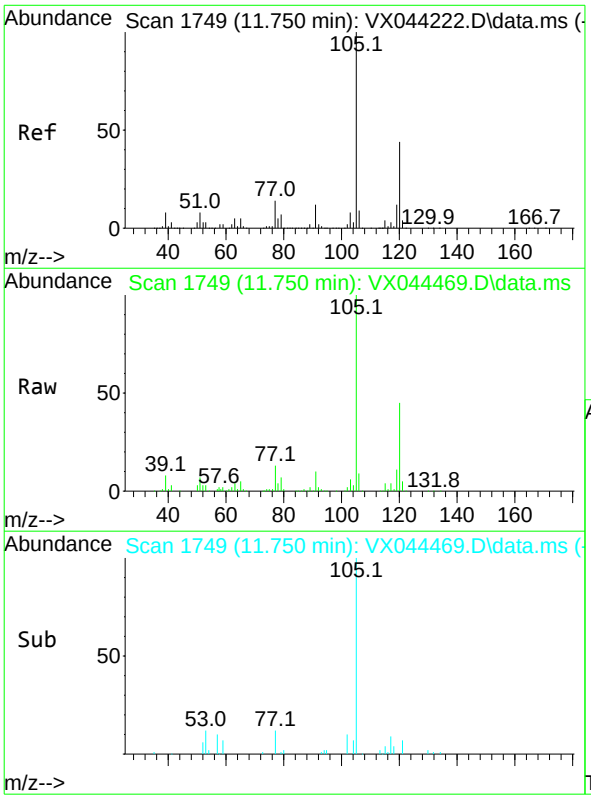
Ion	Ratio	Lower	Upper
119	100		
91	59.7	30.9	92.5
134	24.1	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

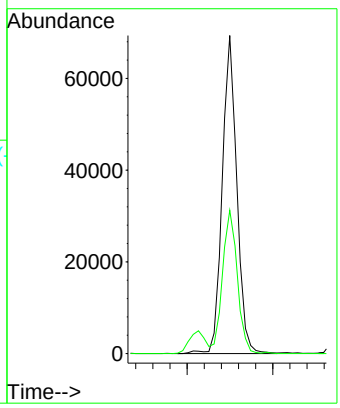
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

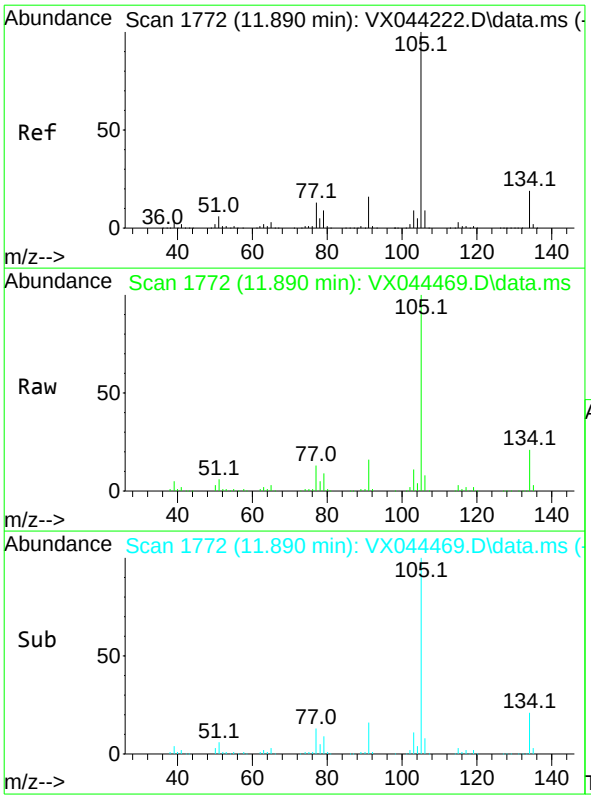


#84
1,2,4-Trimethylbenzene
Concen: 22.695 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:105 Resp: 81991

Ion	Ratio	Lower	Upper
105	100		
120	46.0	21.7	65.1

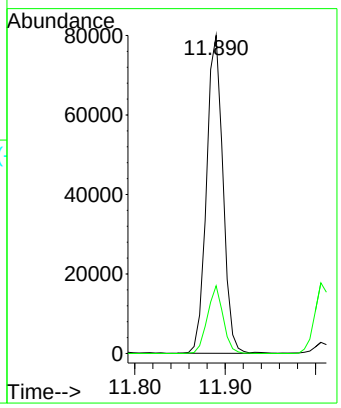




#85
sec-Butylbenzene
Concen: 22.820 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:105 Resp: 100712

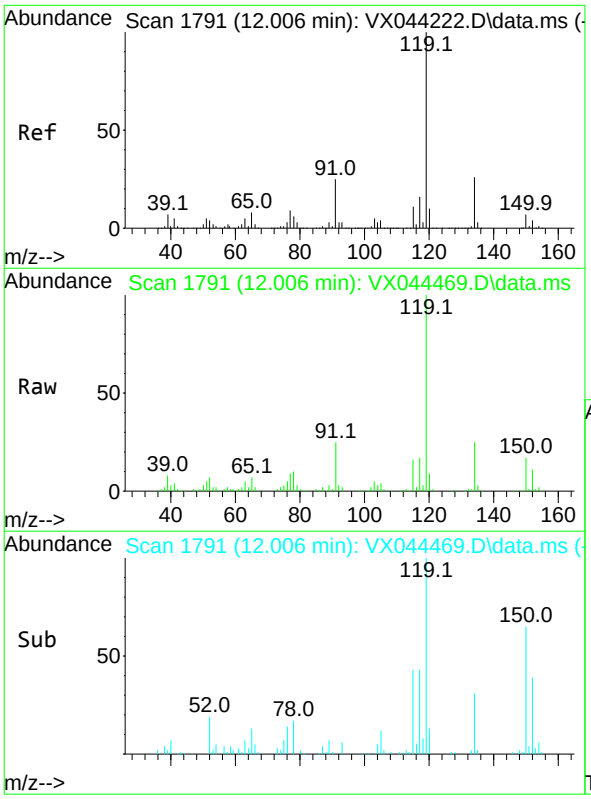
Ion	Ratio	Lower	Upper
105	100		
134	20.4	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

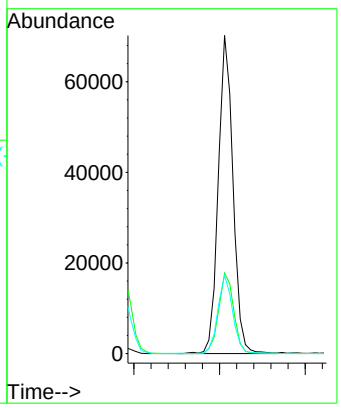
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

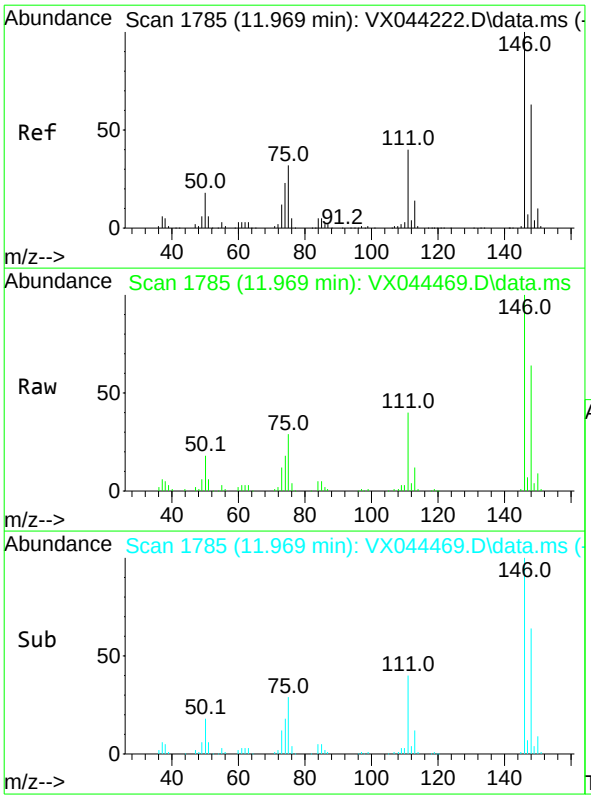


#86
p-Isopropyltoluene
Concen: 22.820 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:119 Resp: 83824

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	25.2	13.0	39.0





#87
1,3-Dichlorobenzene
Concen: 23.489 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

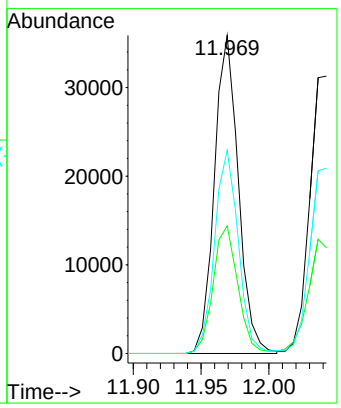
Tgt Ion:146 Resp: 44134

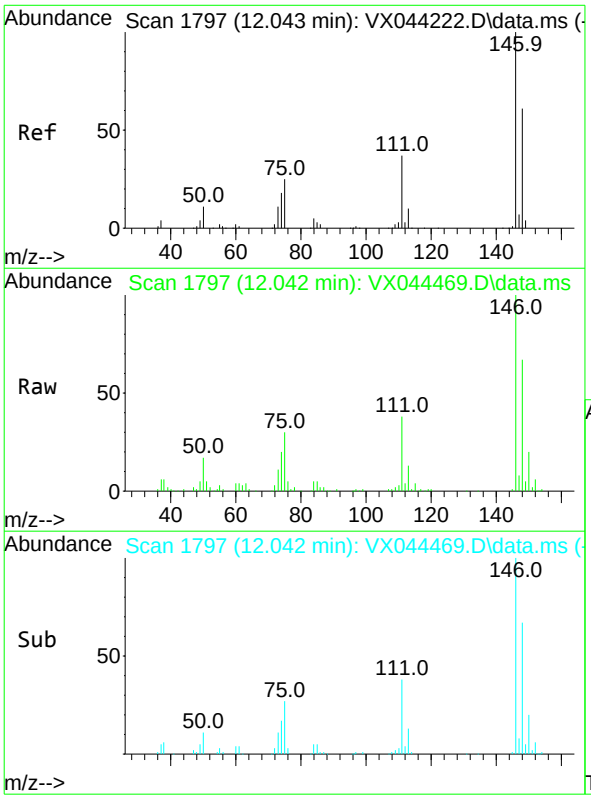
Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.4	64.2
148	63.1	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

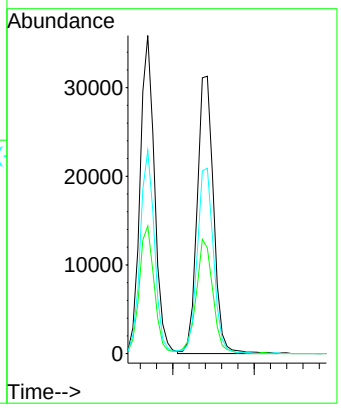


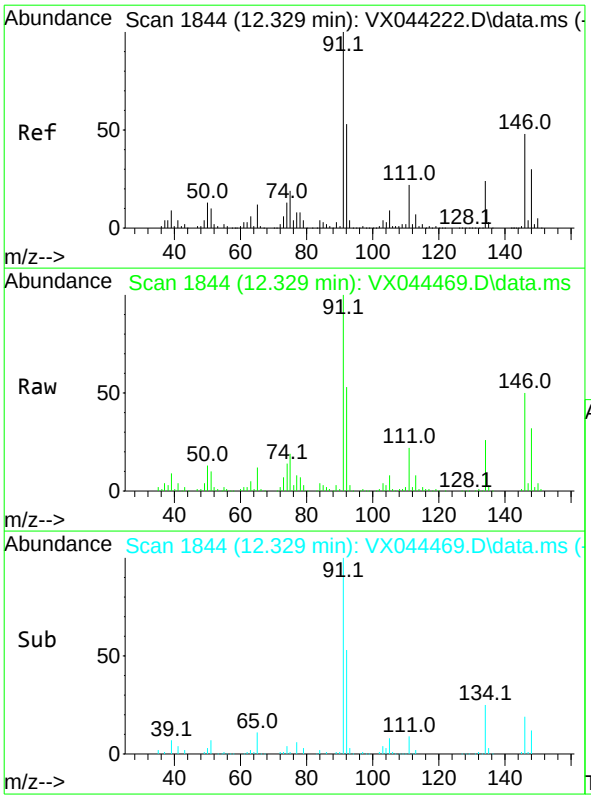


#88
1,4-Dichlorobenzene
Concen: 22.693 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:146 Resp: 43831

Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.0	63.0
148	66.8	32.3	96.8





#89
n-Butylbenzene
Concen: 22.025 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

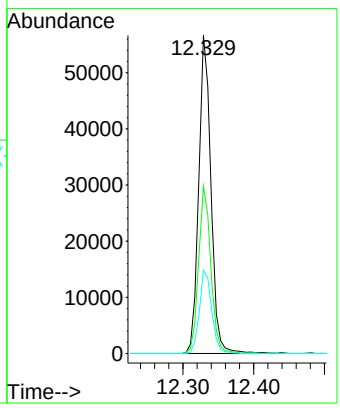
Tgt Ion: 91 Resp: 68030

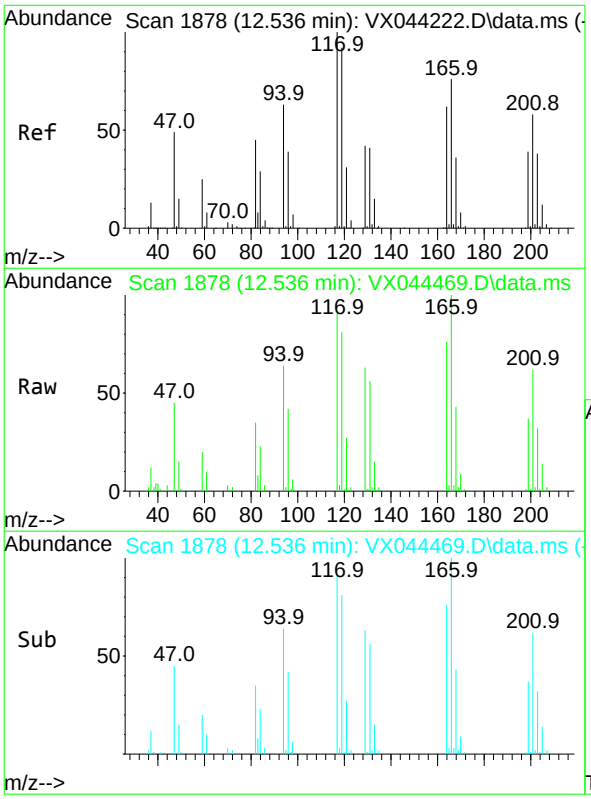
Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.6	79.7
134	26.4	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

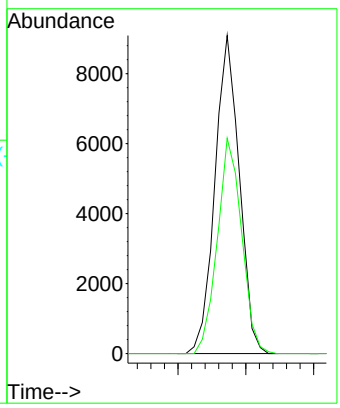


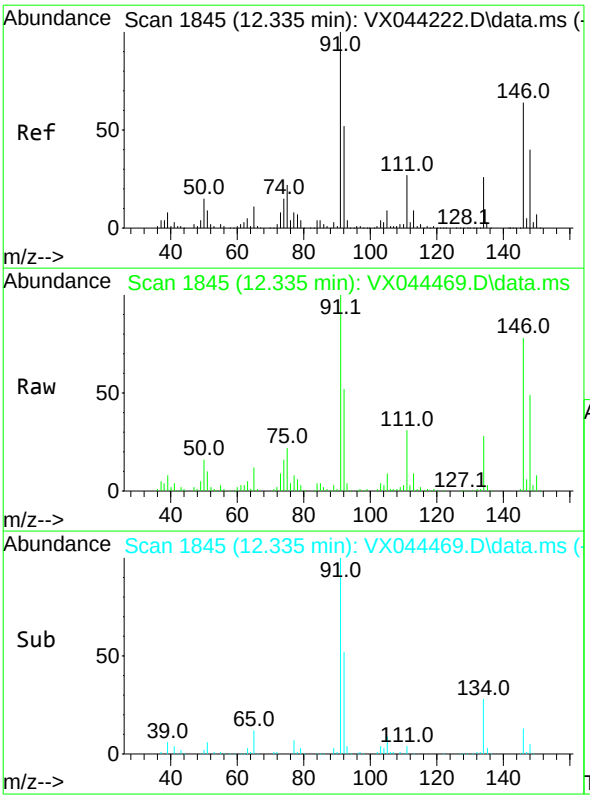


#90
Hexachloroethane
Concen: 21.165 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:117 Resp: 11349

Ion	Ratio	Lower	Upper
117	100		
201	67.5	31.4	94.2





#91
1,2-Dichlorobenzene
Concen: 23.080 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

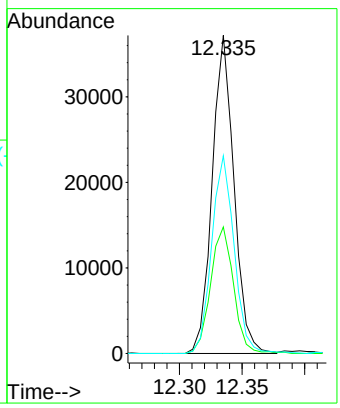
Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

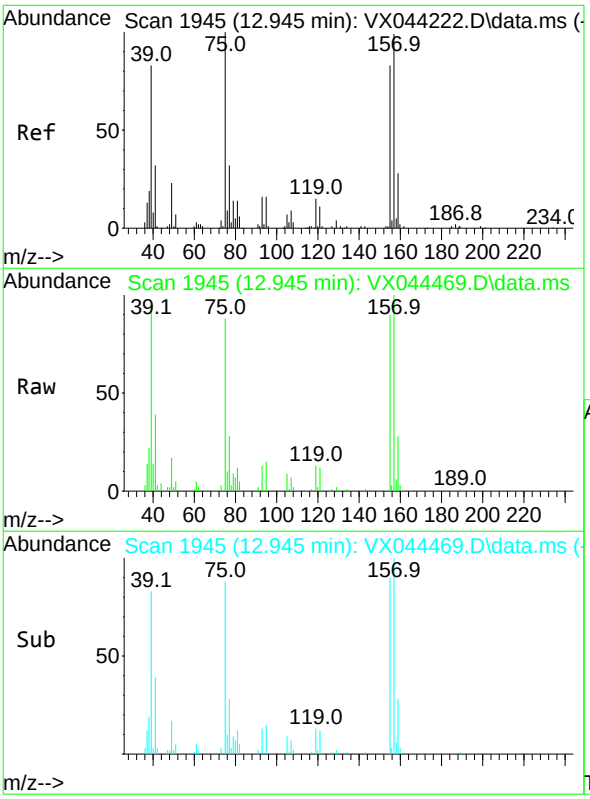
Tgt Ion:146 Resp: 45028

Ion	Ratio	Lower	Upper
146	100		
111	41.9	21.4	64.3
148	64.2	31.6	95.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

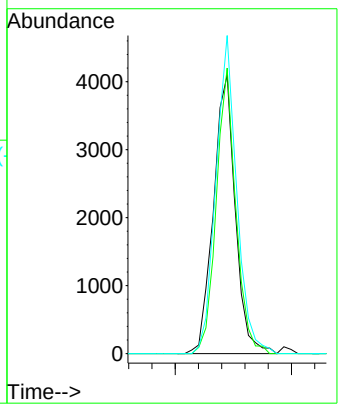


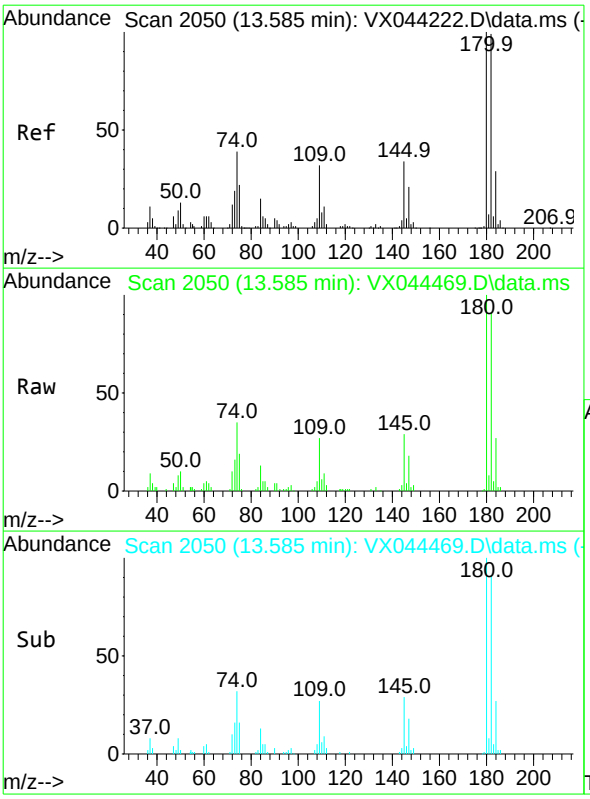


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.924 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion: 75 Resp: 5361

Ion	Ratio	Lower	Upper
75	100		
155	91.6	38.1	114.3
157	109.0	47.2	141.6





#93
1,2,4-Trichlorobenzene
Concen: 24.247 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

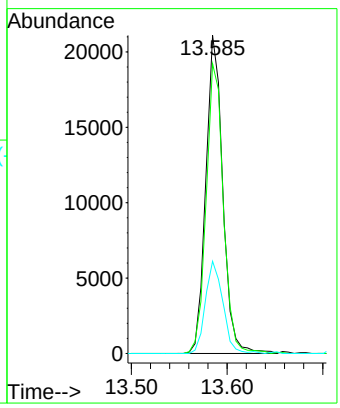
Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

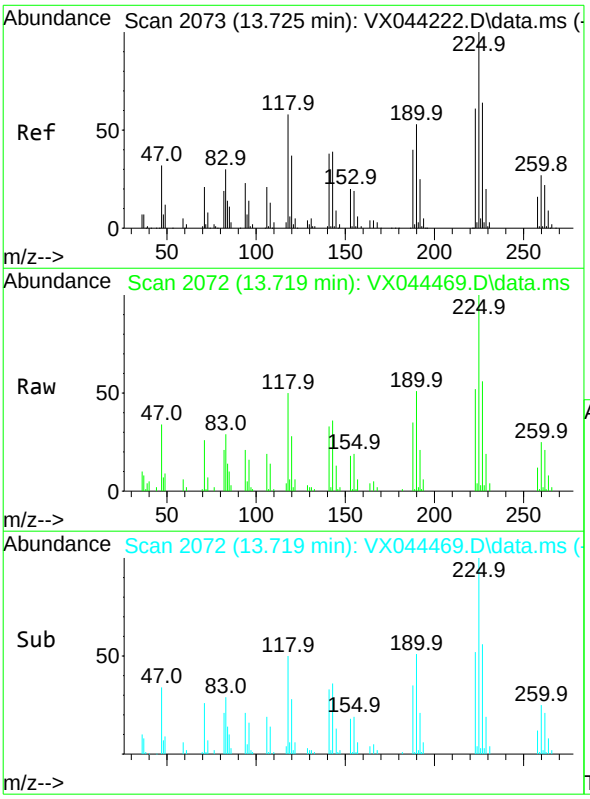
Tgt Ion:180 Resp: 25935

Ion	Ratio	Lower	Upper
180	100		
182	92.6	48.0	144.2
145	29.9	16.6	49.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024

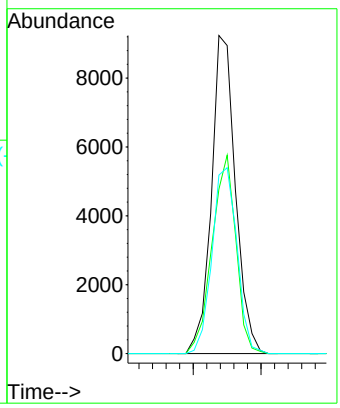


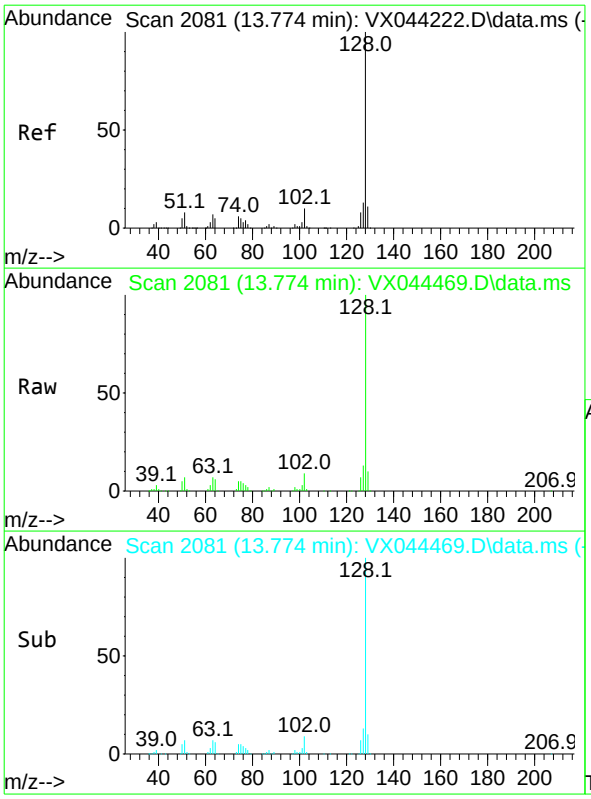


#94
Hexachlorobutadiene
Concen: 26.407 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:225 Resp: 11361

Ion	Ratio	Lower	Upper
225	100		
223	61.9	30.8	92.4
227	60.9	32.1	96.3

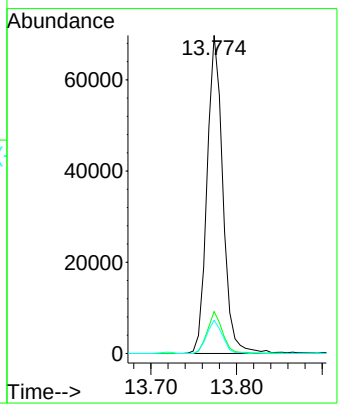




#95
Naphthalene
Concen: 21.405 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:128 Resp: 89367

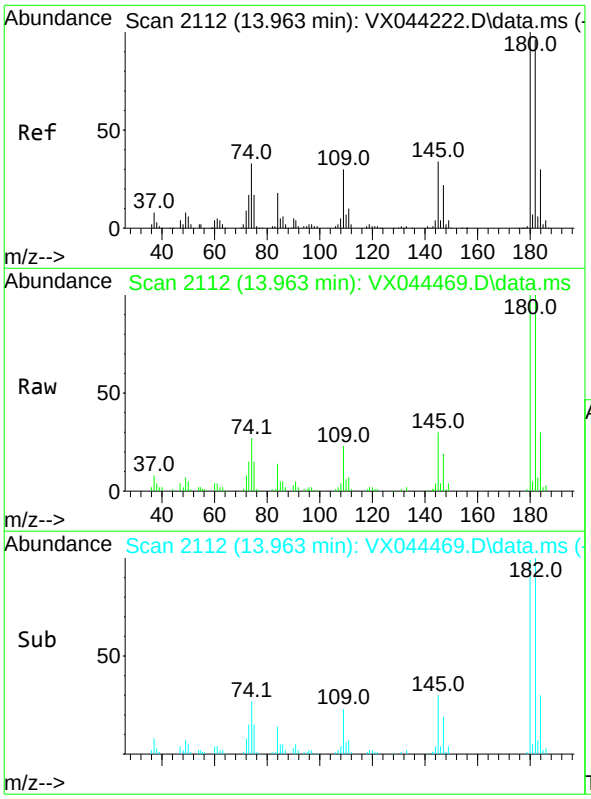
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.4	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VX1223WBS01

Manual Integrations
APPROVED

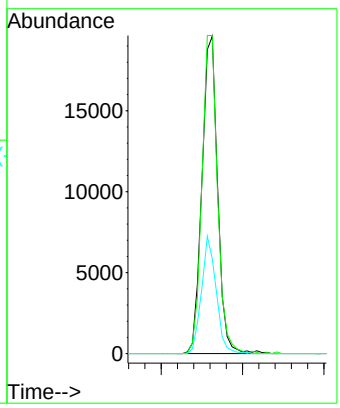
Reviewed By :John Carlone 12/26/2024
Supervised By :Mahesh Dadoda 12/26/2024



#96
1,2,3-Trichlorobenzene
Concen: 23.049 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044469.D
Acq: 23 Dec 2024 11:04

Tgt Ion:180 Resp: 26148

Ion	Ratio	Lower	Upper
180	100		
182	99.3	48.0	144.0
145	34.6	17.7	53.1



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D5-20241217MS	SDG No.:	P5317
Lab Sample ID:	P5317-19MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044417.D	1		12/19/24 06:28	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	54.6		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	56.4		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	54.0		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	50.1		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	55.8		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	44.0		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	58.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	56.9		0.26	0.75	1.00	ug/L
67-64-1	Acetone	230		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	52.7		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	49.7		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	42.6		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	53.3		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	53.6		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	53.4		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	51.2		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	250		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	51.8		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	52.6		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	50.6		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	51.3		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	51.2		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	52.6		0.19	0.50	1.00	ug/L
71-43-2	Benzene	55.3		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	52.0		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	190	E	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	52.2		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	54.3		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	260		0.75	2.50	5.00	ug/L
108-88-3	Toluene	53.4		0.18	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D5-20241217MS	SDG No.:	P5317
Lab Sample ID:	P5317-19MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044417.D	1		12/19/24 06:28	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	45.6		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	50.1		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	55.0		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	270		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	50.2		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	54.6		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	51.0		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	52.1		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	51.7		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	53.1		0.14	0.50	1.00	ug/L
100-42-5	Styrene	54.6		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	50.4		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	51.8		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.8		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	52.3		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	50.9		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	50.9		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	47.3		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	52.1		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	50.4		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.1		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	54.5		80 - 119		109%	SPK: 50
2037-26-5	Toluene-d8	55.2		89 - 112		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.8		85 - 114		110%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	121000	5.55				
540-36-3	1,4-Difluorobenzene	214000	6.757				
3114-55-4	Chlorobenzene-d5	190000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	89300	12.018				

Raw Data: **VX044417.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D5-20241217MS	SDG No.:	P5317
Lab Sample ID:	P5317-19MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044417.D	1		12/19/24 06:28	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044417.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044417.D
Acq On : 19 Dec 2024 06:28
Operator : JC/MD
Sample : P5317-19MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 19 07:13:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	120579	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	213617	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	190465	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	89259	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	105971	50.125	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.240%			
35) Dibromofluoromethane	5.385	113	80699	54.545	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.100%			
50) Toluene-d8	8.647	98	275601	55.215	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 110.440%			
62) 4-Bromofluorobenzene	11.079	95	95512	54.763	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 109.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	101840	54.622	ug/l	98
3) Chloromethane	1.294	50	100546	56.393	ug/l	99
4) Vinyl Chloride	1.373	62	100314	54.006	ug/l	99
5) Bromomethane	1.593	94	66030	50.108	ug/l	99
6) Chloroethane	1.660	64	64595	55.848	ug/l	99
7) Trichlorofluoromethane	1.867	101	159830	43.953	ug/l	97
8) Diethyl Ether	2.136	74	59957	48.304	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.312	101	85466	58.083	ug/l	97
10) Methyl Iodide	2.440	142	106760	55.050	ug/l	97
11) Tert butyl alcohol	2.995	59	70752	237.456	ug/l	99
12) 1,1-Dichloroethene	2.306	96	76884	56.886	ug/l	94
13) Acrolein	2.239	56	108654	251.918	ug/l	99
14) Allyl chloride	2.654	41	111120	49.361	ug/l	98
15) Acrylonitrile	3.068	53	218540	264.782	ug/l	98
16) Acetone	2.392	43	197086	228.663	ug/l	93
17) Carbon Disulfide	2.501	76	135299	52.664	ug/l	99
18) Methyl Acetate	2.709	43	94760	42.640	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	262360	49.744	ug/l	97
20) Methylene Chloride	2.782	84	86364	53.348	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	77018	53.619	ug/l	94
22) Diisopropyl ether	3.763	45	257102	50.718	ug/l	98
23) Vinyl Acetate	3.721	43	899088	218.156	ug/l	99
24) 1,1-Dichloroethane	3.605	63	150960	53.424	ug/l	99
25) 2-Butanone	4.568	43	306611	250.229	ug/l	98
26) 2,2-Dichloropropane	4.470	77	66622	29.022	ug/l	92
27) cis-1,2-Dichloroethene	4.483	96	95958	52.601	ug/l	93
28) Bromochloromethane	4.891	49	70090	50.584	ug/l	99
29) Tetrahydrofuran	5.007	42	197080	250.581	ug/l	99
30) Chloroform	5.086	83	162853	51.296	ug/l	98
31) Cyclohexane	5.458	56	116900	51.232	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	134879	51.181	ug/l	99
36) 1,1-Dichloropropene	5.690	75	99689	52.127	ug/l	98
37) Ethyl Acetate	4.714	43	103439	43.755	ug/l	99
38) Carbon Tetrachloride	5.671	117	106720	51.832	ug/l	93
39) Methylcyclohexane	7.372	83	120195	52.572	ug/l	98
40) Benzene	6.031	78	320899	55.265	ug/l	98

Sample Results: **VX044417.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044417.D
Acq On : 19 Dec 2024 06:28
Operator : JC/MD
Sample : P5317-19MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 19 07:13:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	63751	50.785 ug/l		96
42) 1,2-Dichloroethane	6.080	62	124414	52.015 ug/l		97
43) Isopropyl Acetate	6.342	43	170996	46.279 ug/l		99
44) Trichloroethene	7.122	130	272774	188.381 ug/l		100
45) 1,2-Dichloropropane	7.427	63	77375	52.158 ug/l		100
46) Dibromomethane	7.580	93	62524	54.327 ug/l		98
47) Bromodichloromethane	7.817	83	107956	54.314 ug/l	#	98
48) Methyl methacrylate	7.696	41	91092	50.787 ug/l		96
49) 1,4-Dioxane	7.665	88	28445	956.536 ug/l	#	66
51) 4-Methyl-2-Pentanone	8.573	43	622807	262.151 ug/l		99
52) Toluene	8.714	92	194818	53.428 ug/l		99
53) t-1,3-Dichloropropene	8.976	75	96722	45.626 ug/l		96
54) cis-1,3-Dichloropropene	8.366	75	108330	50.056 ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	79671	54.999 ug/l		98
56) Ethyl methacrylate	9.116	69	122174	53.425 ug/l		98
57) 1,3-Dichloropropane	9.305	76	133261	52.852 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.165	63	328	0.284 ug/l	#	46
59) 2-Hexanone	9.433	43	455924	265.129 ug/l		98
60) Dibromochloromethane	9.518	129	77087	50.234 ug/l		100
61) 1,2-Dibromoethane	9.610	107	80434	54.550 ug/l		100
64) Tetrachloroethene	9.268	164	64526	51.043 ug/l		98
65) Chlorobenzene	10.079	112	212499	52.067 ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.158	131	71222	54.299 ug/l		99
67) Ethyl Benzene	10.195	91	364782	51.729 ug/l		99
68) m/p-Xylenes	10.299	106	276393	106.816 ug/l		96
69) o-Xylene	10.640	106	139121	53.138 ug/l		95
70) Styrene	10.652	104	229145	54.597 ug/l		97
71) Bromoform	10.799	173	46210	50.371 ug/l	#	100
73) Isopropylbenzene	10.963	105	353672	51.758 ug/l		100
74) N-amyl acetate	10.841	43	133021	42.122 ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	120537	50.787 ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	97575m	48.960 ug/l		
77) Bromobenzene	11.195	156	85100	51.358 ug/l		99
78) n-propylbenzene	11.305	91	393213	52.064 ug/l		99
79) 2-Chlorotoluene	11.360	91	241377	49.418 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	290026	51.181 ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	25222	37.797 ug/l		99
82) 4-Chlorotoluene	11.451	91	275039	50.851 ug/l		99
83) tert-Butylbenzene	11.713	119	293206	52.357 ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	290913	52.275 ug/l		99
85) sec-Butylbenzene	11.890	105	347835	51.163 ug/l		100
86) p-Isopropyltoluene	12.006	119	287333	50.779 ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	151413	52.313 ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	151478	50.911 ug/l		97
89) n-Butylbenzene	12.329	91	239808	50.400 ug/l		99
90) Hexachloroethane	12.536	117	43066	52.138 ug/l		96
91) 1,2-Dichlorobenzene	12.335	146	152884	50.871 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	21771	47.254 ug/l		93
93) 1,2,4-Trichlorobenzene	13.585	180	85895	52.132 ug/l		98
94) Hexachlorobutadiene	13.725	225	33809	51.014 ug/l		98
95) Naphthalene	13.774	128	312358	48.567 ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	88117	50.422 ug/l		99

Sample Results: **VX044417.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044417.D
Acq On : 19 Dec 2024 06:28
Operator : JC/MD
Sample : P5317-19MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 07:13:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VX044417.D**

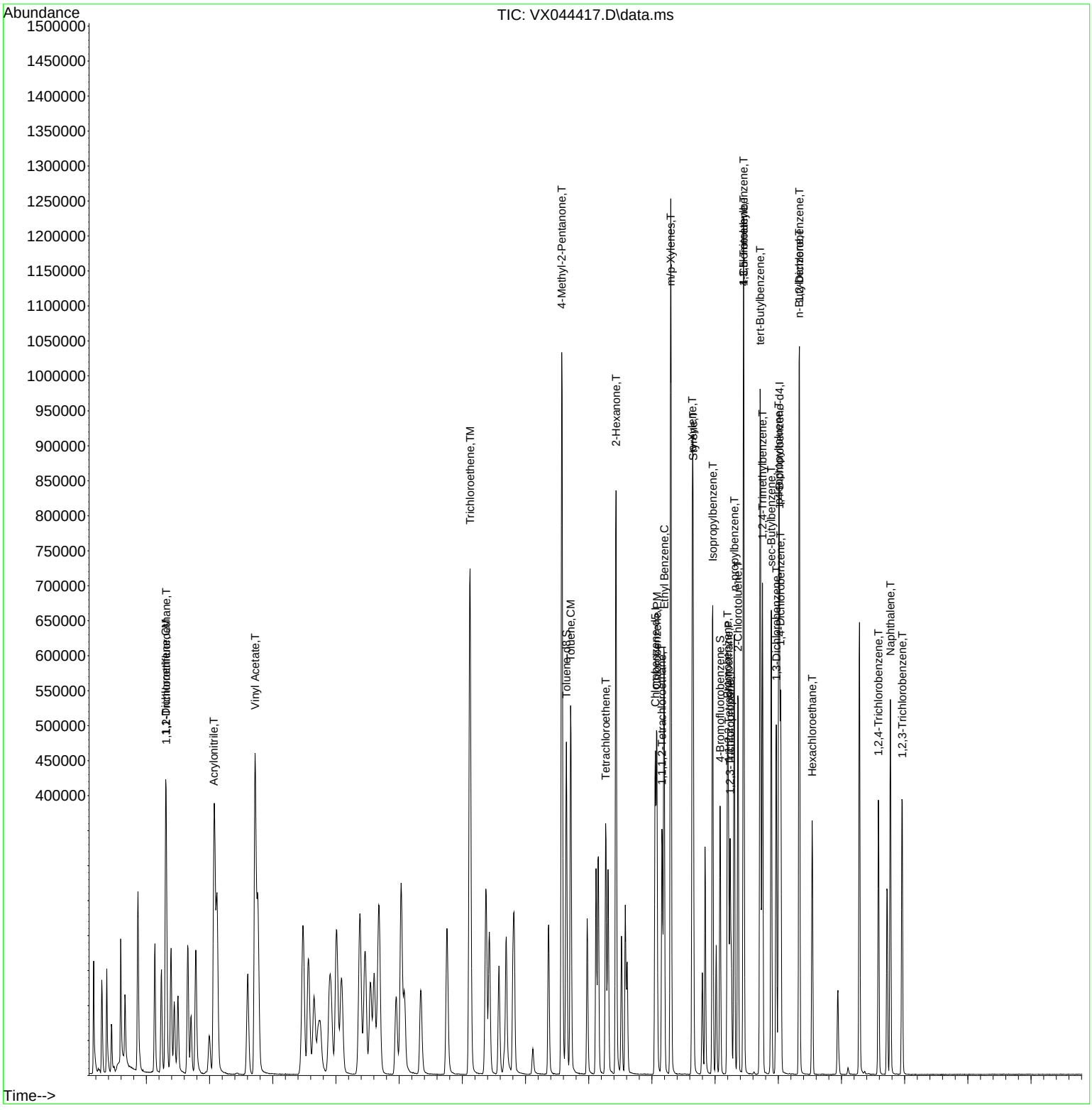
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044417.D
Acq On : 19 Dec 2024 06:28
Operator : JC/MD
Sample : P5317-19MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 49 Sample Multiplier: 1

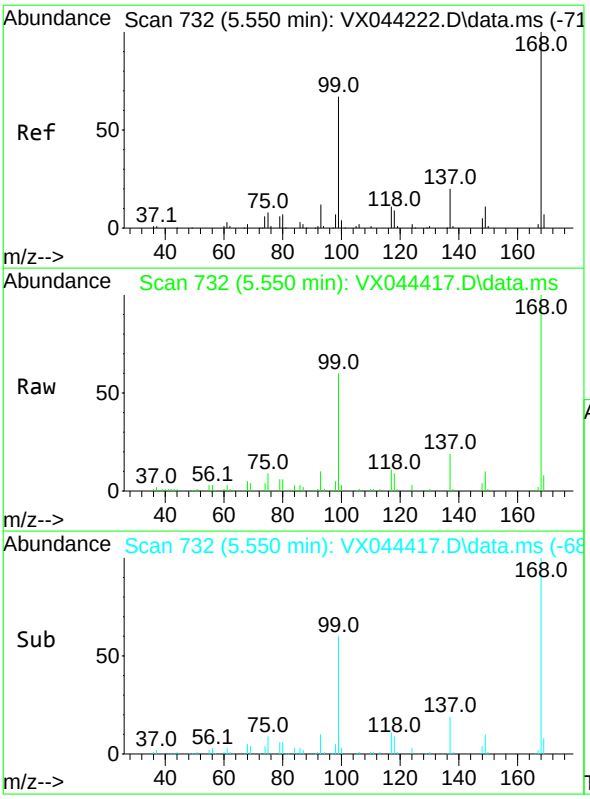
Quant Time: Dec 19 07:13:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

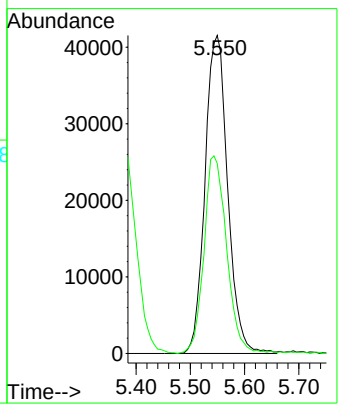




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:168 Resp: 120579

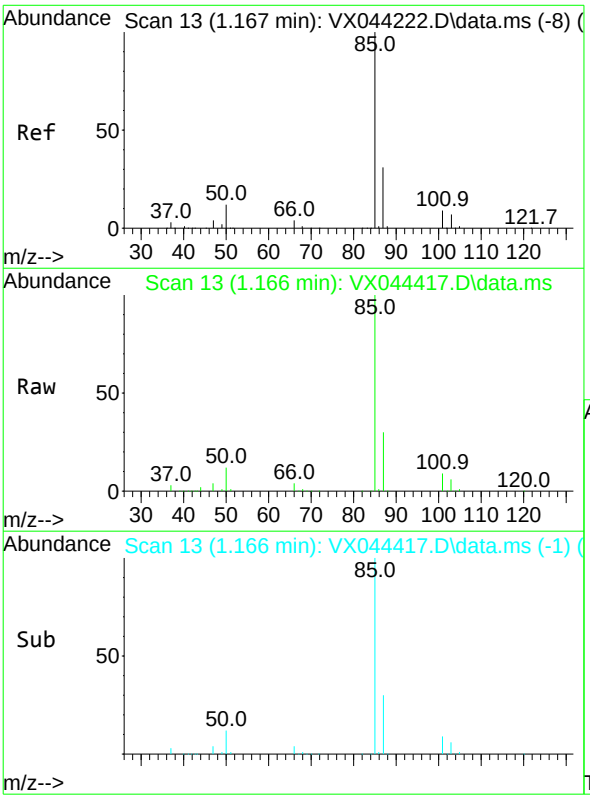
Ion	Ratio	Lower	Upper
168	100		
99	59.8	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

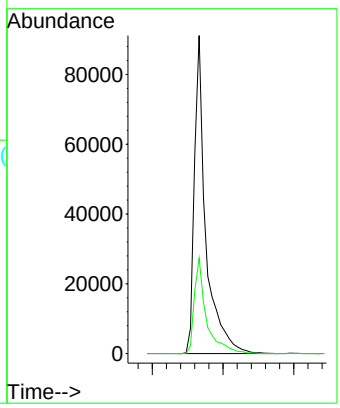
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

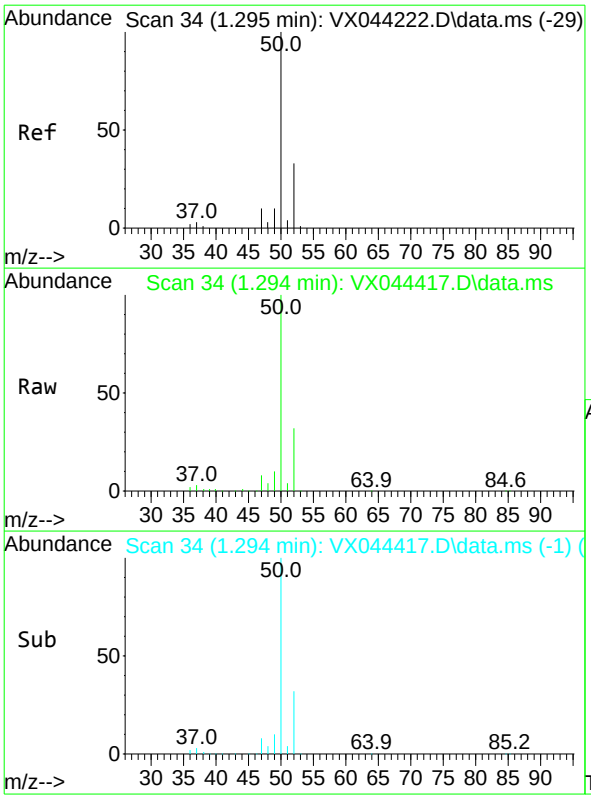


#2
Dichlorodifluoromethane
Concen: 54.622 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 85 Resp: 101840

Ion	Ratio	Lower	Upper
85	100		
87	30.0	15.4	46.4

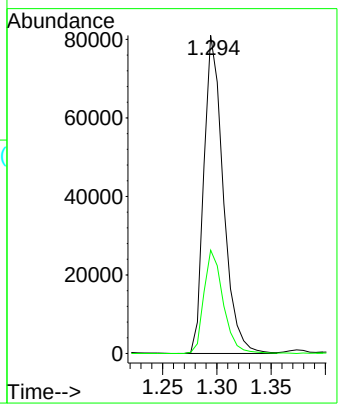




#3
Chloromethane
Concen: 56.393 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 50 Resp: 100546

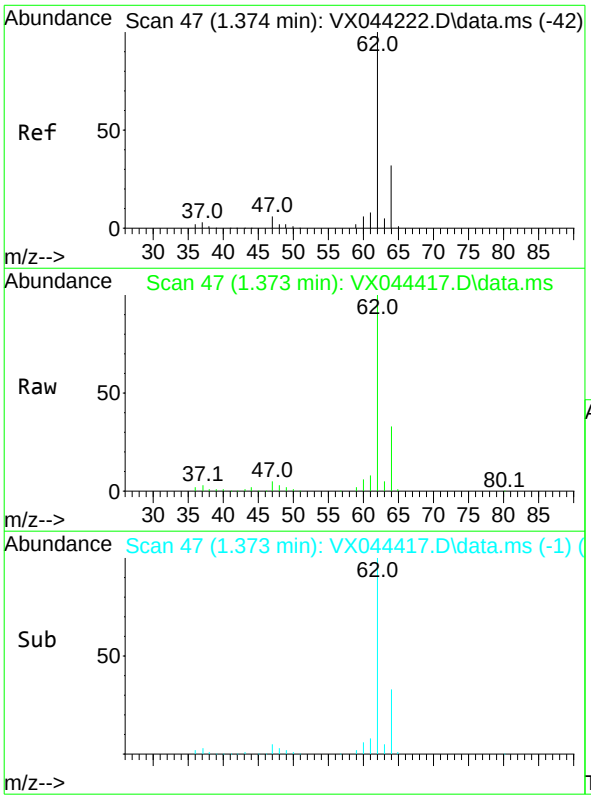
Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

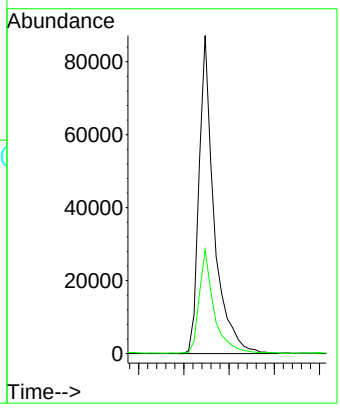
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

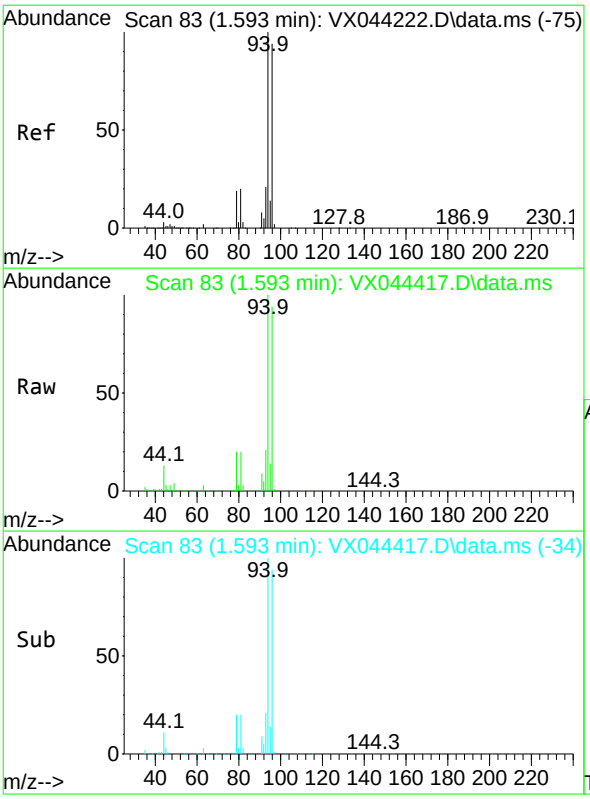


#4
Vinyl Chloride
Concen: 54.006 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 62 Resp: 100314

Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.7	38.5

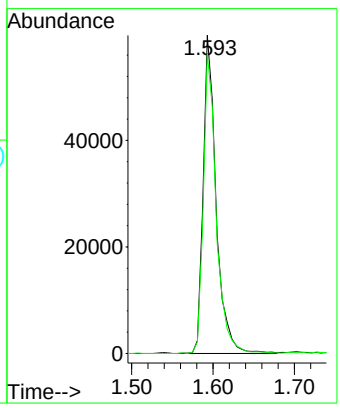




#5
Bromomethane
Concen: 50.108 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 94 Resp: 66030

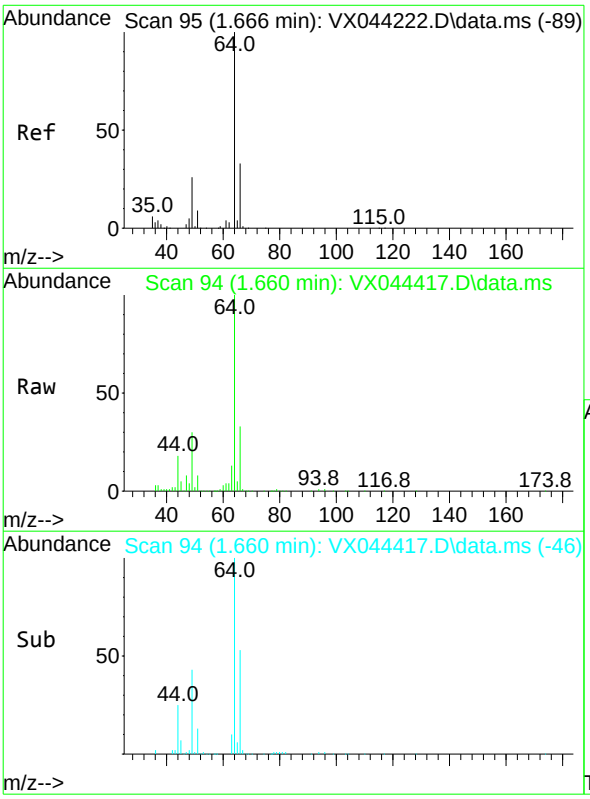
Ion	Ratio	Lower	Upper
94	100		
96	94.1	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

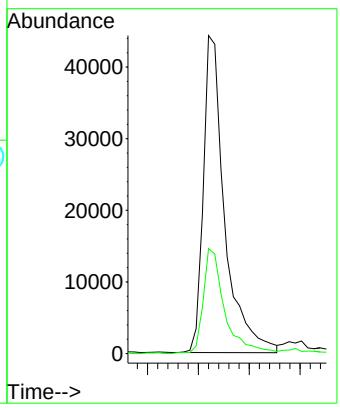
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

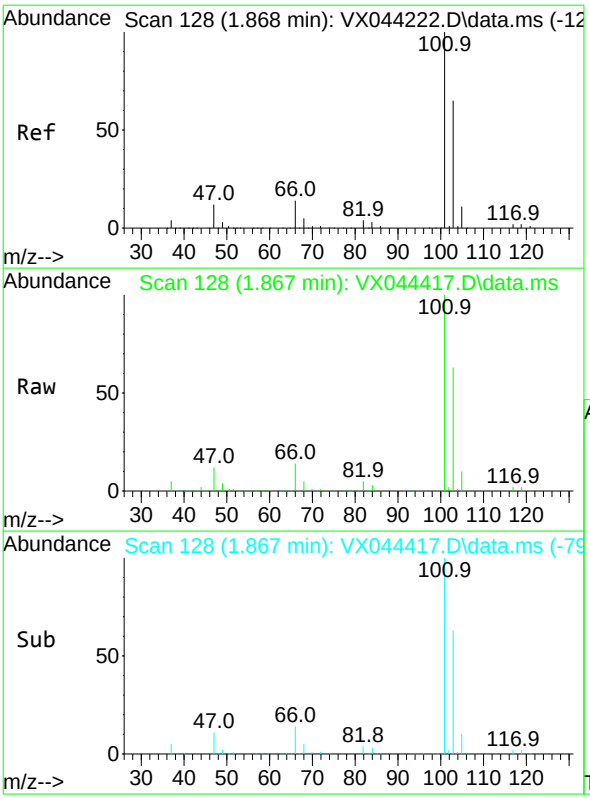


#6
Chloroethane
Concen: 55.848 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 64 Resp: 64595

Ion	Ratio	Lower	Upper
64	100		
66	32.8	26.6	39.8

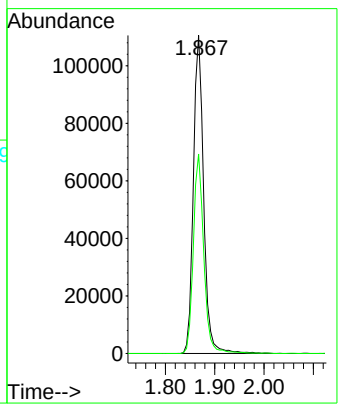




#7
Trichlorofluoromethane
Concen: 43.953 ug/l
RT: 1.867 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:101 Resp: 159830

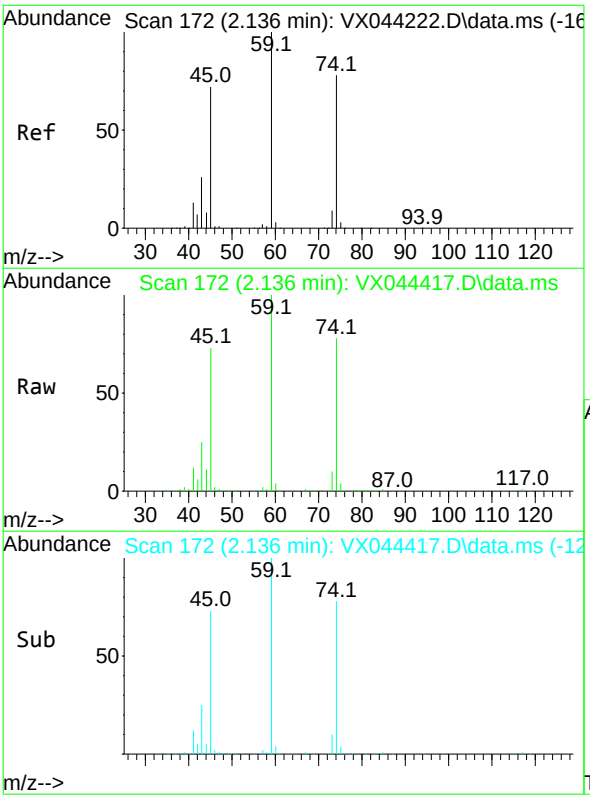
Ion	Ratio	Lower	Upper
101	100		
103	62.7	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

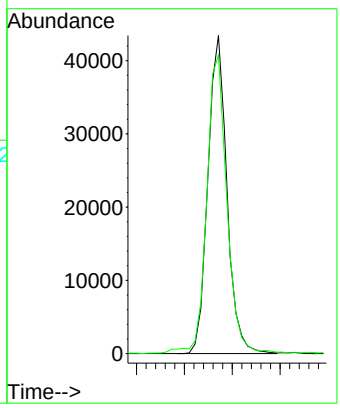
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

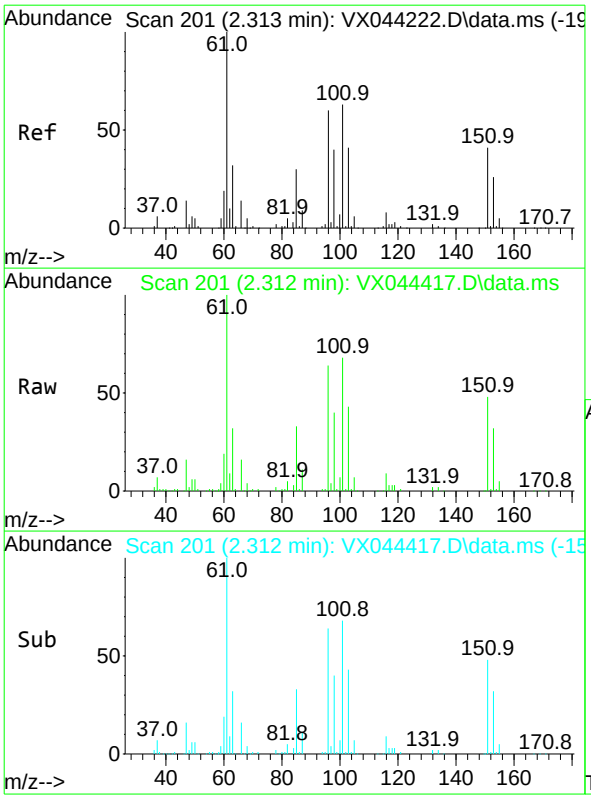


#8
Diethyl Ether
Concen: 48.304 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 74 Resp: 59957

Ion	Ratio	Lower	Upper
74	100		
45	99.7	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 58.083 ug/l
RT: 2.312 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

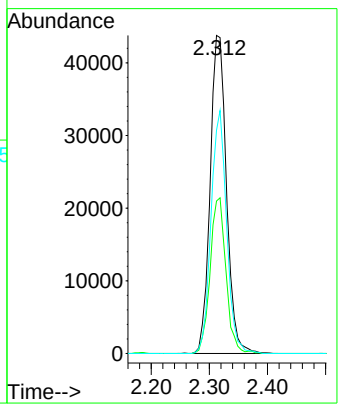
Tgt Ion:101 Resp: 85466

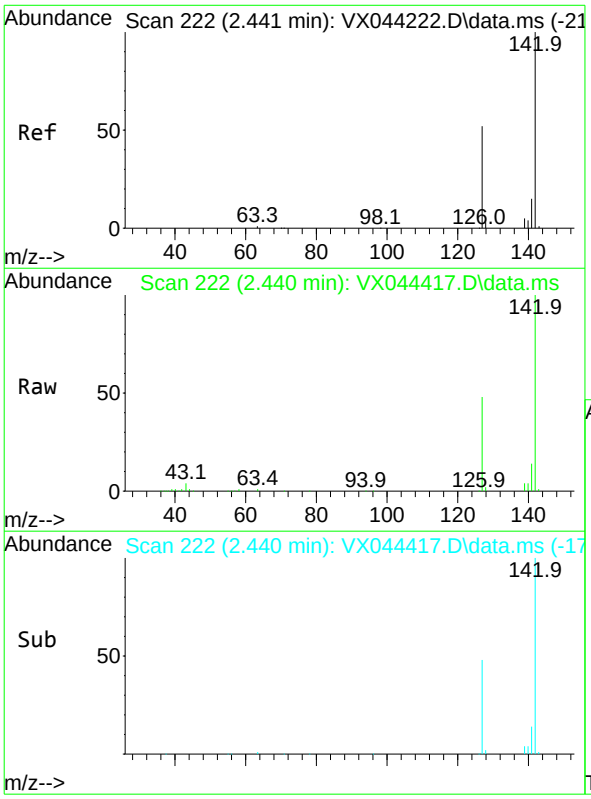
Ion	Ratio	Lower	Upper
101	100		
85	47.6	38.5	57.7
151	73.1	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

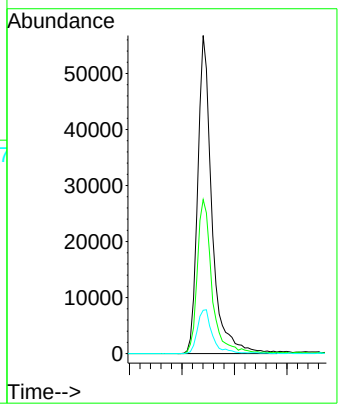


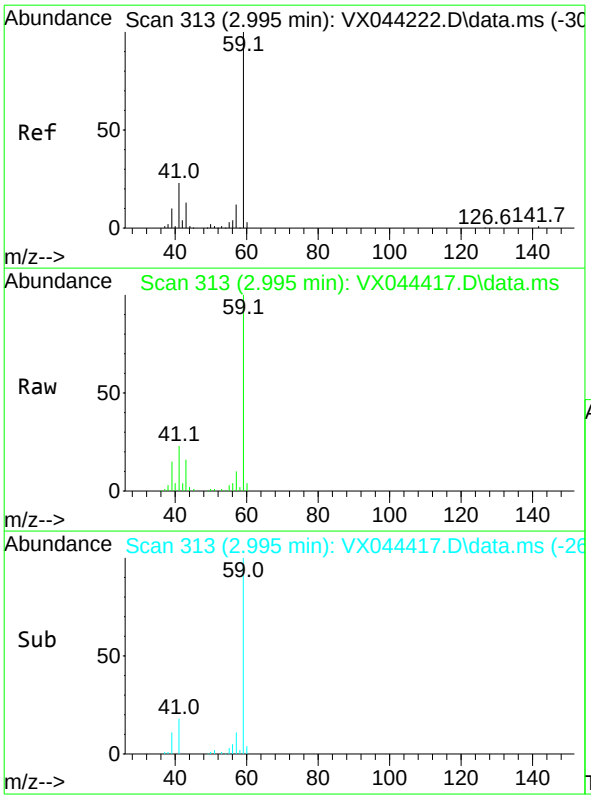


#10
Methyl Iodide
Concen: 55.050 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:142 Resp: 106760

Ion	Ratio	Lower	Upper
142	100		
127	50.0	41.8	62.8
141	14.5	11.5	17.3





#11
Tert butyl alcohol
Concen: 237.456 ug/l
RT: 2.995 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

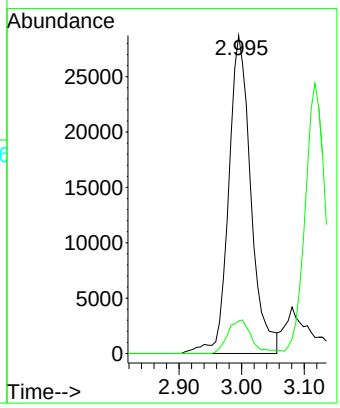
Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

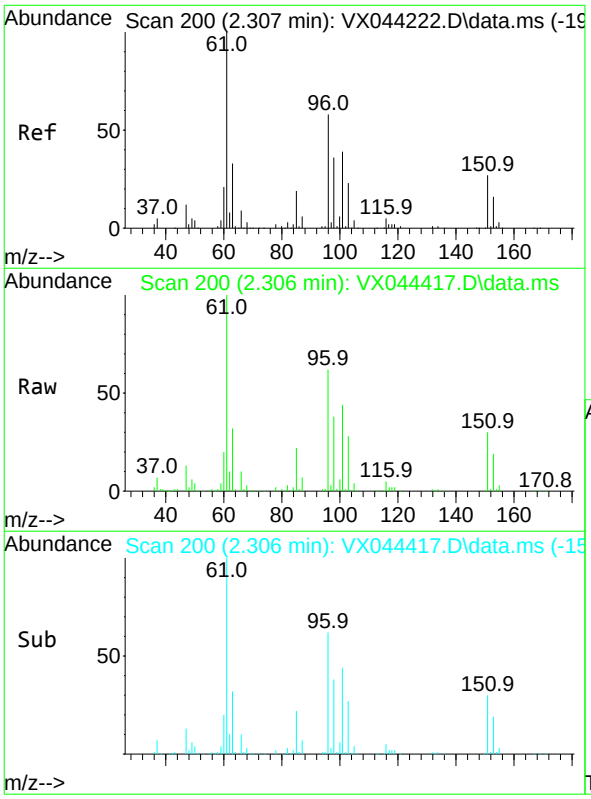
Tgt Ion: 59 Resp: 70752

Ion	Ratio	Lower	Upper
59	100		
57	11.3	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

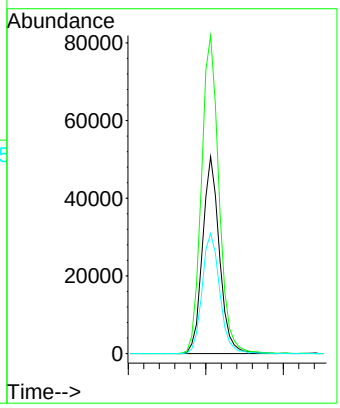


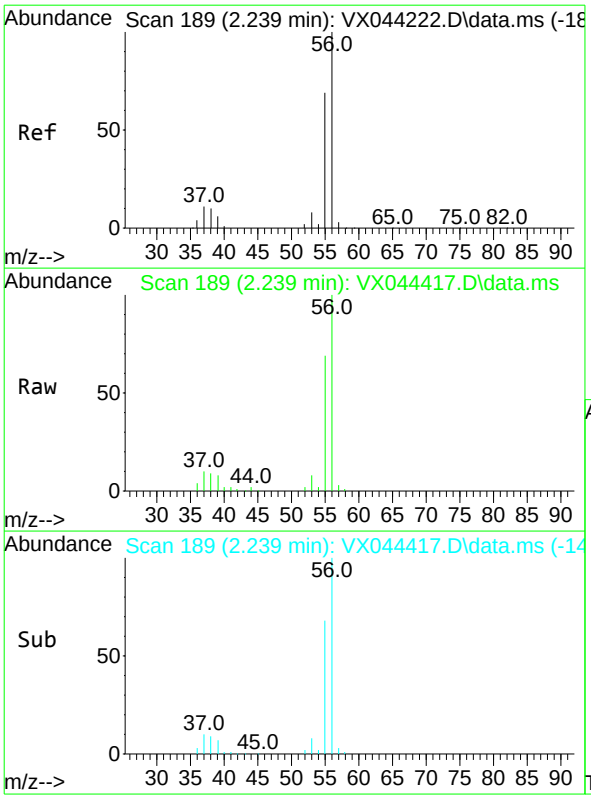


#12
1,1-Dichloroethene
Concen: 56.886 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 96 Resp: 76884

Ion	Ratio	Lower	Upper
96	100		
61	161.5	138.0	207.0
98	61.0	50.0	75.0





#13
Acrolein
Concen: 251.918 ug/l
RT: 2.239 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

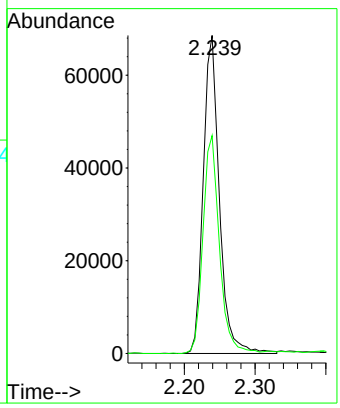
Tgt Ion: 56 Resp: 108654

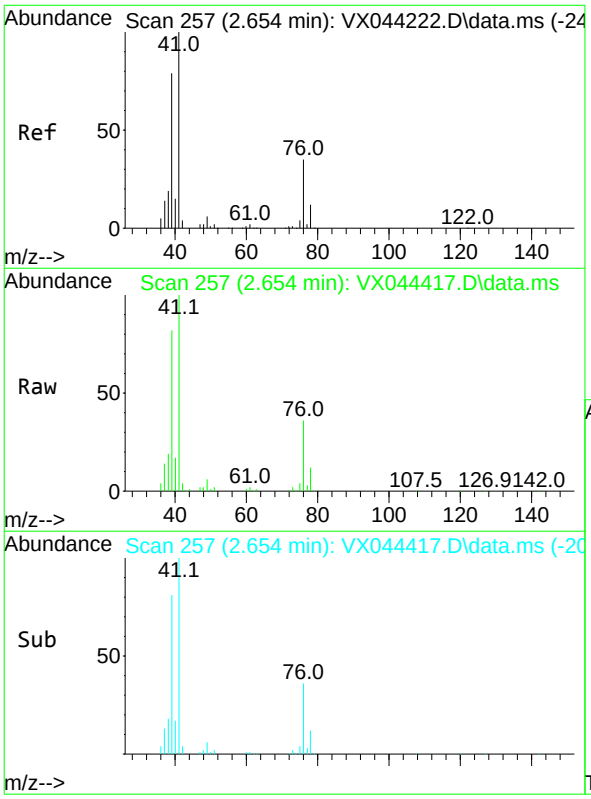
Ion	Ratio	Lower	Upper
56	100		
55	69.8	56.6	84.8

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

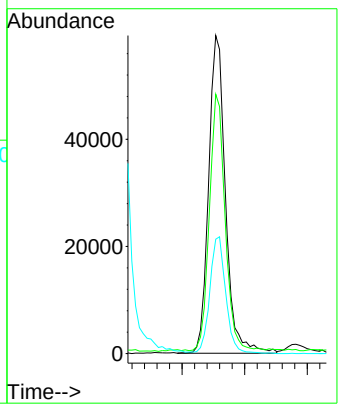


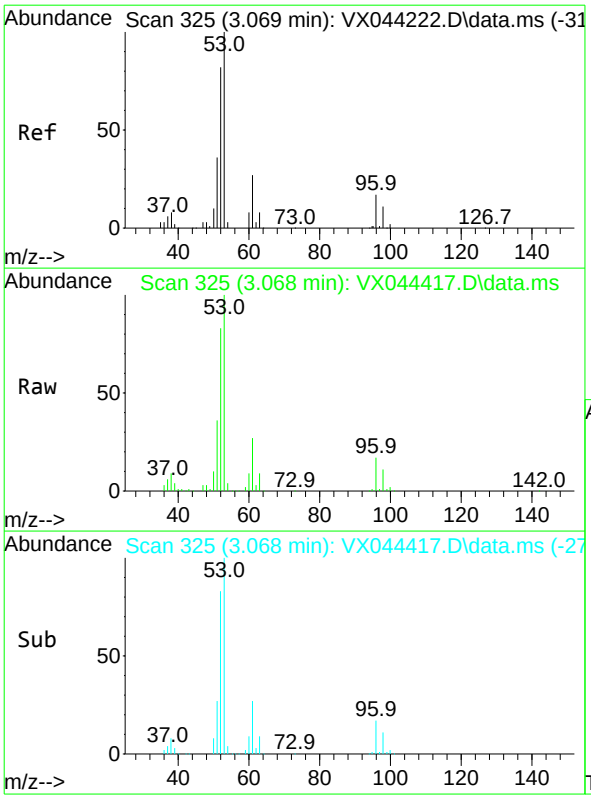


#14
Allyl chloride
Concen: 49.361 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 41 Resp: 111120

Ion	Ratio	Lower	Upper
41	100		
39	75.0	61.9	92.9
76	34.8	27.4	41.2





#15
Acrylonitrile
Concen: 264.782 ug/l
RT: 3.068 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

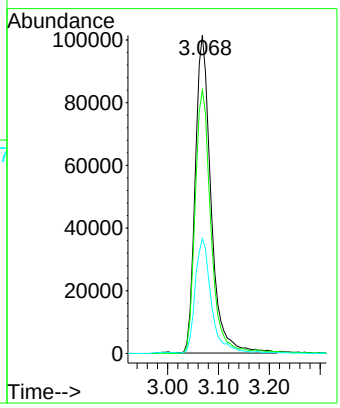
Tgt Ion: 53 Resp: 218540

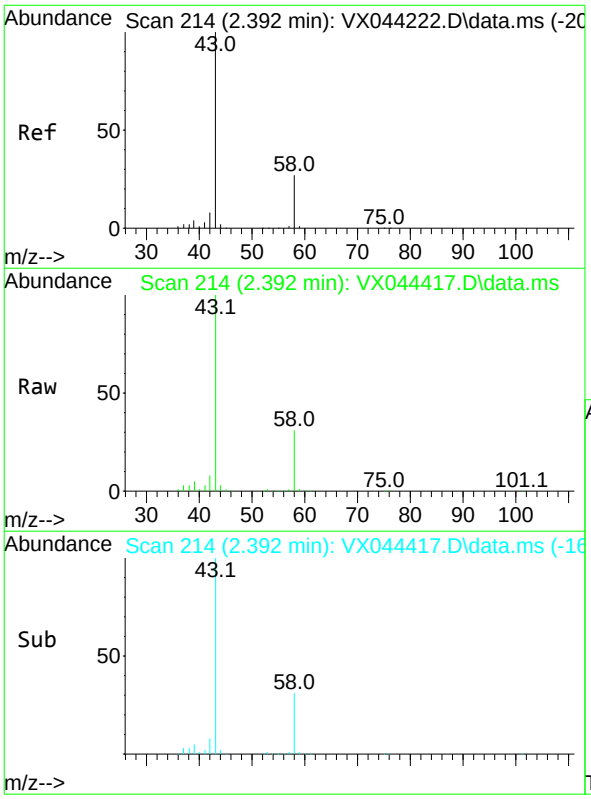
Ion	Ratio	Lower	Upper
53	100		
52	82.4	67.4	101.0
51	36.3	30.3	45.5

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

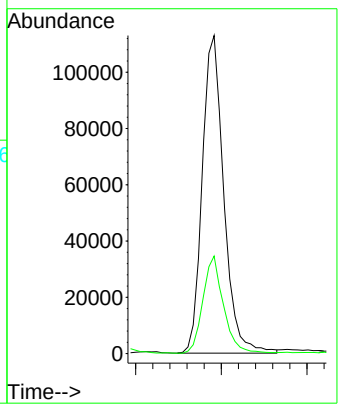


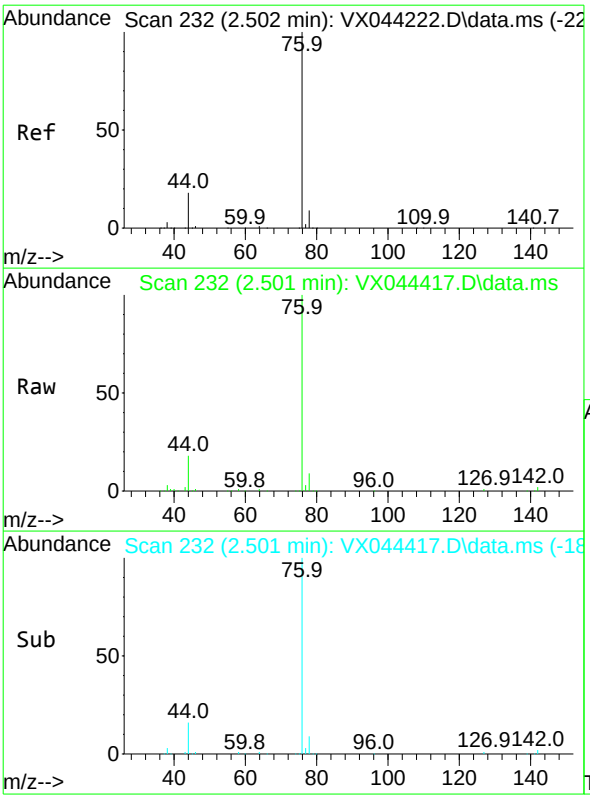


#16
Acetone
Concen: 228.663 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 43 Resp: 197086

Ion	Ratio	Lower	Upper
43	100		
58	30.6	21.6	32.4





#17
Carbon Disulfide
Concen: 52.664 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

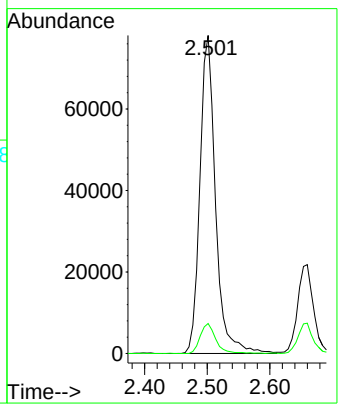
Tgt Ion: 76 Resp: 135299

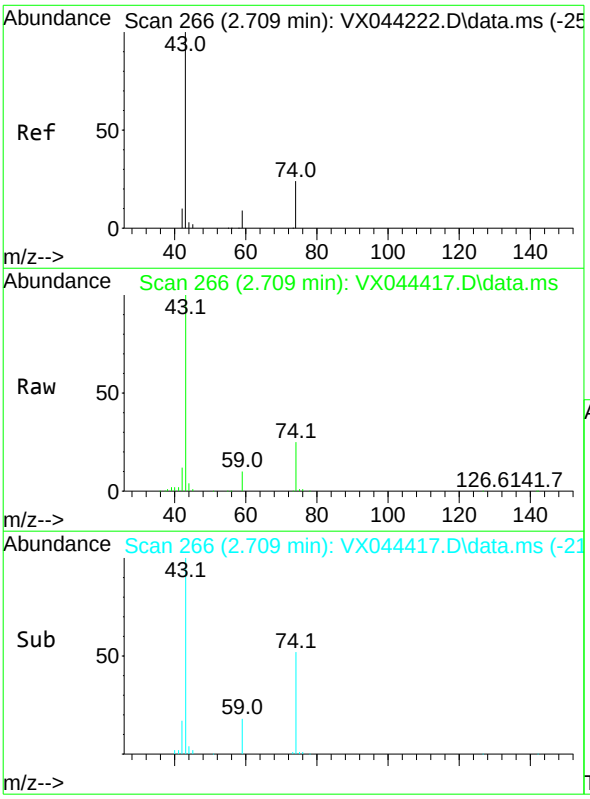
Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

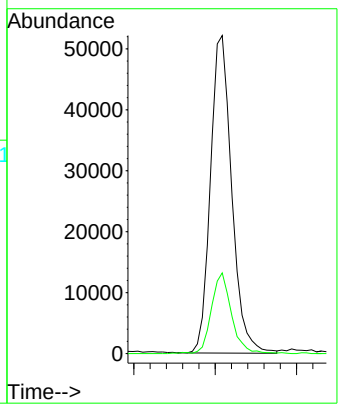


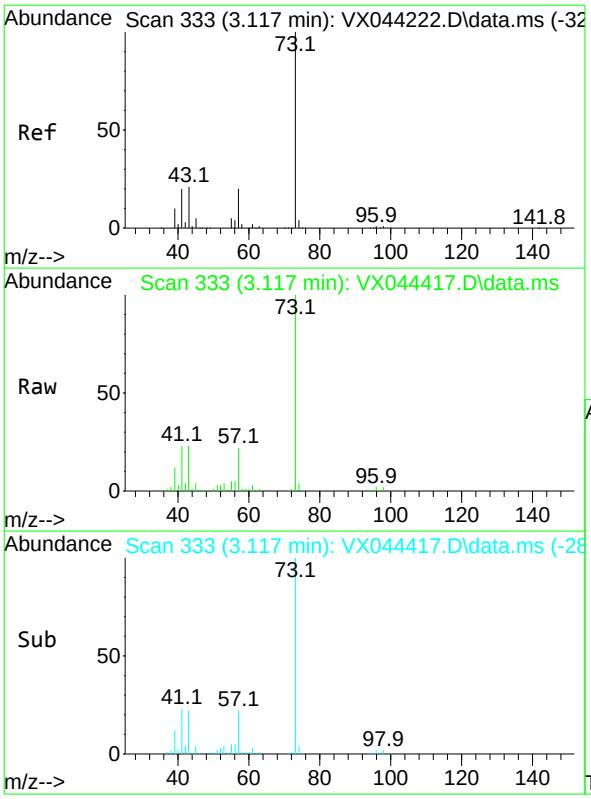


#18
Methyl Acetate
Concen: 42.640 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 43 Resp: 94760

Ion	Ratio	Lower	Upper
43	100		
74	24.0	17.7	26.5

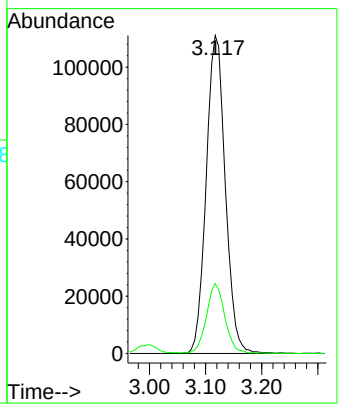




#19
Methyl tert-butyl Ether
Concen: 49.744 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 73 Resp: 262360

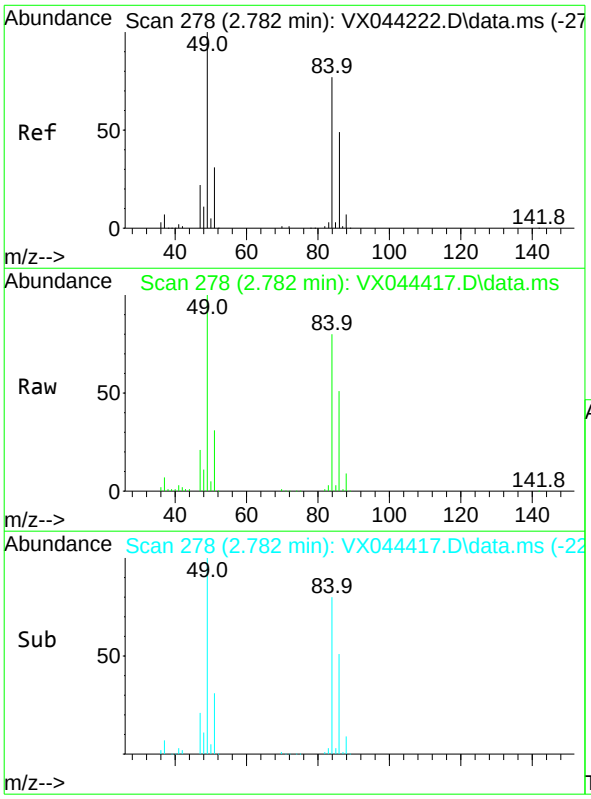
Ion	Ratio	Lower	Upper
73	100		
57	21.9	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

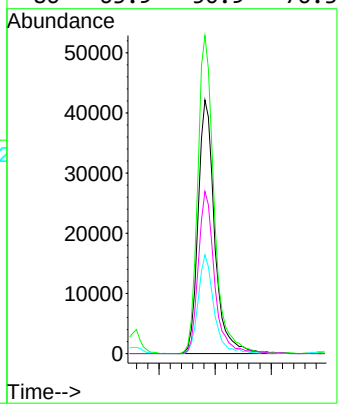
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

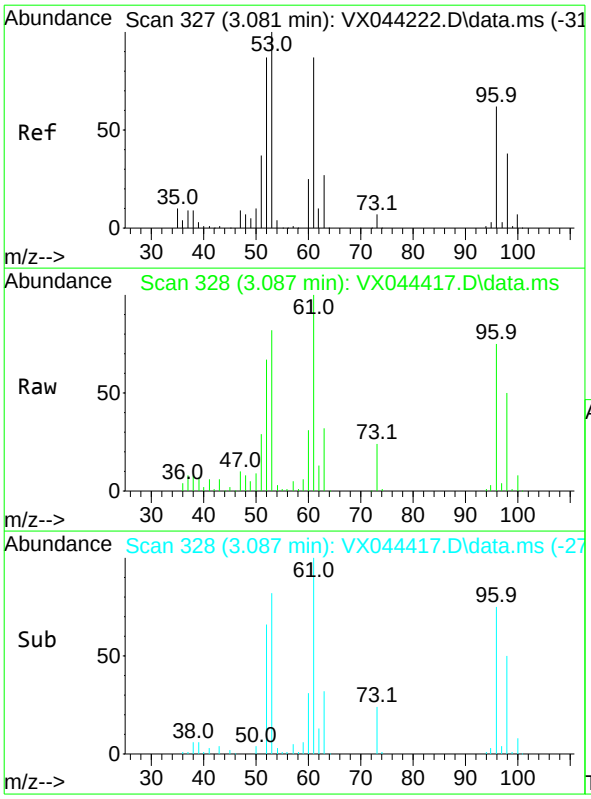


#20
Methylene Chloride
Concen: 53.348 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 84 Resp: 86364

Ion	Ratio	Lower	Upper
84	100		
49	125.4	104.2	156.4
51	38.9	32.2	48.4
86	63.9	50.9	76.3





#21
trans-1,2-Dichloroethene
Concen: 53.619 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

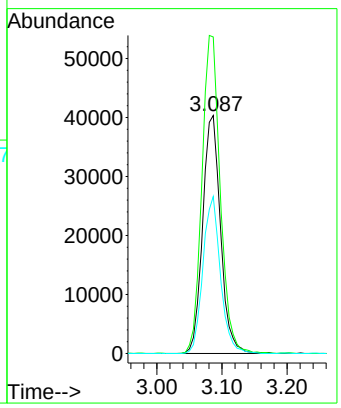
Tgt Ion: 96 Resp: 77018

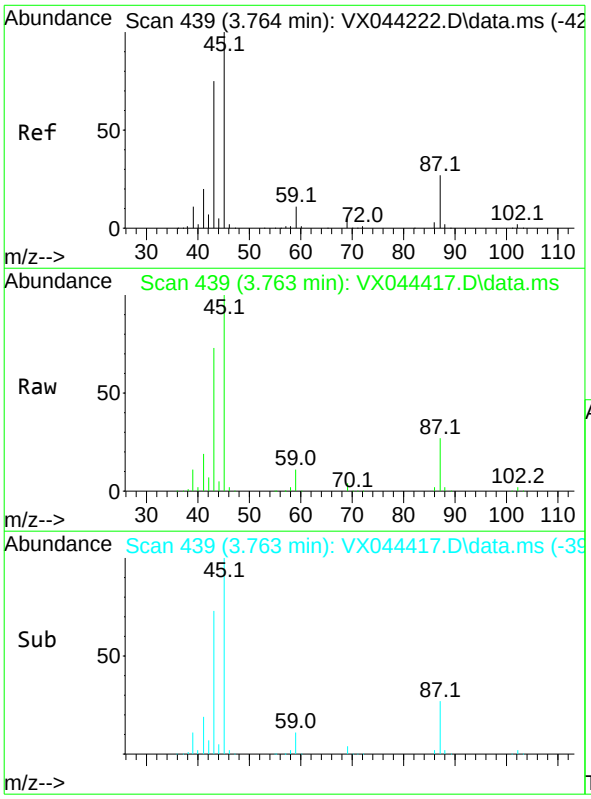
Ion	Ratio	Lower	Upper
96	100		
61	133.0	112.0	168.0
98	65.9	48.8	73.2

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

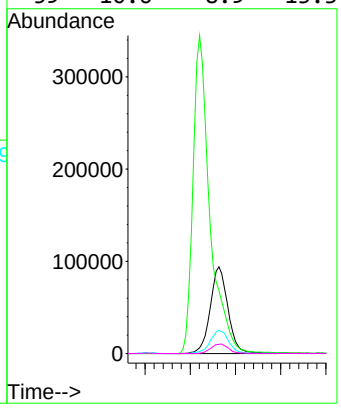


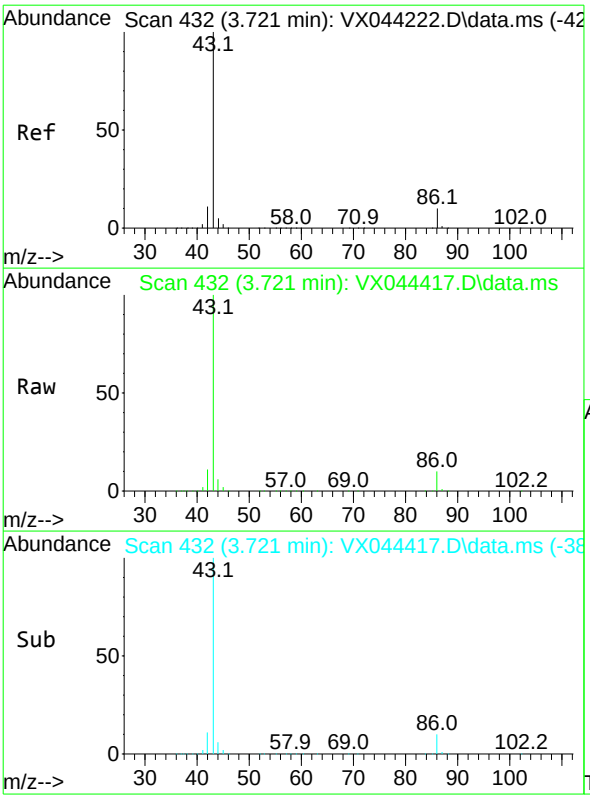


#22
Diisopropyl ether
Concen: 50.718 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 45 Resp: 257102

Ion	Ratio	Lower	Upper
45	100		
43	72.8	60.2	90.2
87	26.9	21.2	31.8
59	10.6	8.9	13.3





#23
Vinyl Acetate
Concen: 218.156 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

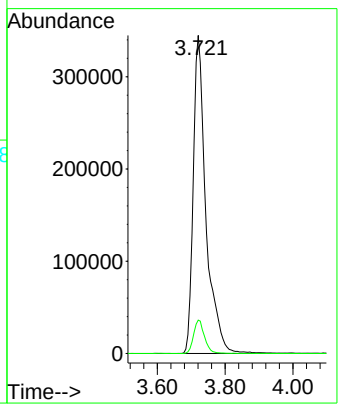
Tgt Ion: 43 Resp: 899088

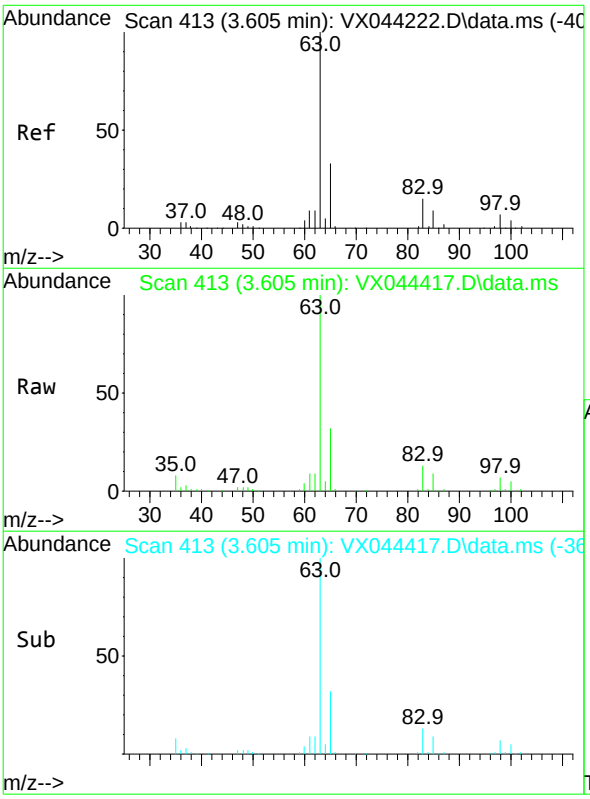
Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.2

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

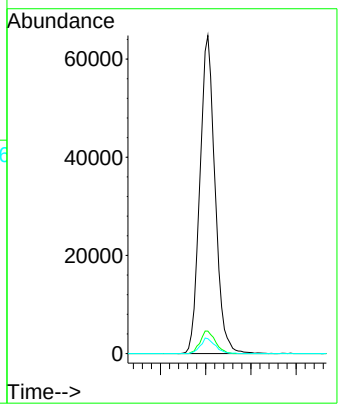


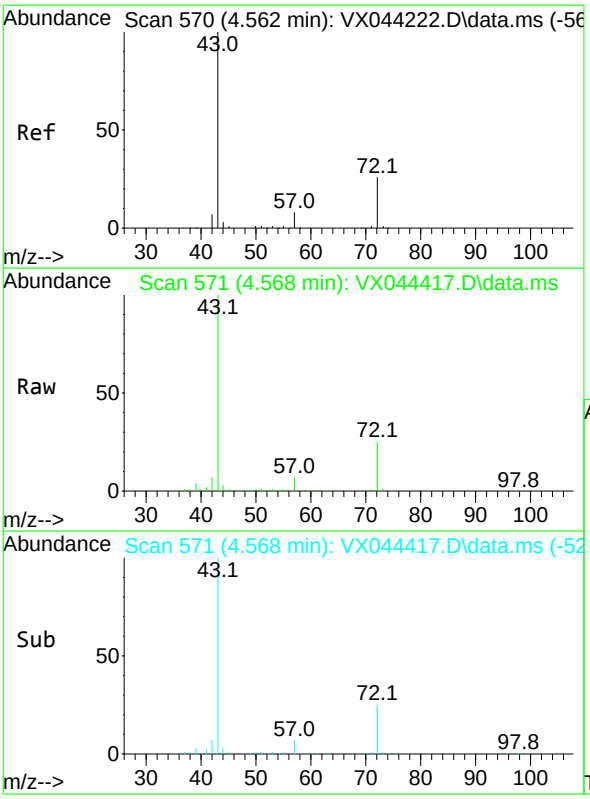


#24
1,1-Dichloroethane
Concen: 53.424 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 63 Resp: 150960

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.6	10.8
100	4.7	2.1	6.3





#25
2-Butanone
Concen: 250.229 ug/l
RT: 4.568 min Scan# 57
Delta R.T. 0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

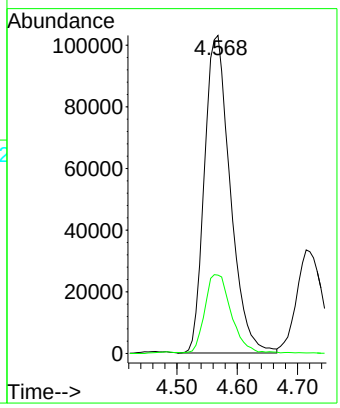
Tgt Ion: 43 Resp: 306611

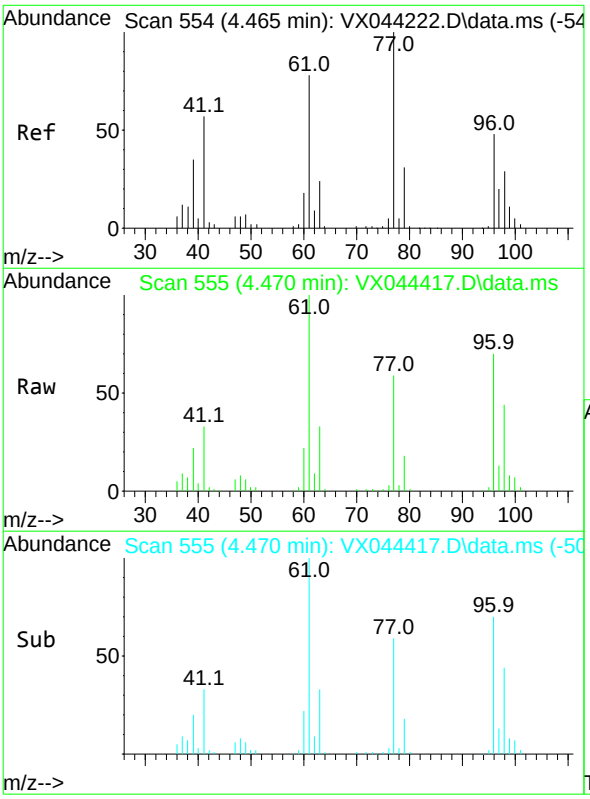
Ion	Ratio	Lower	Upper
43	100		
72	24.3	20.2	30.4

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

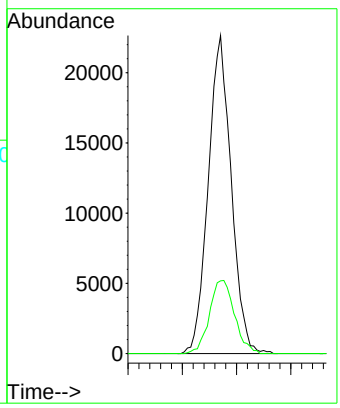


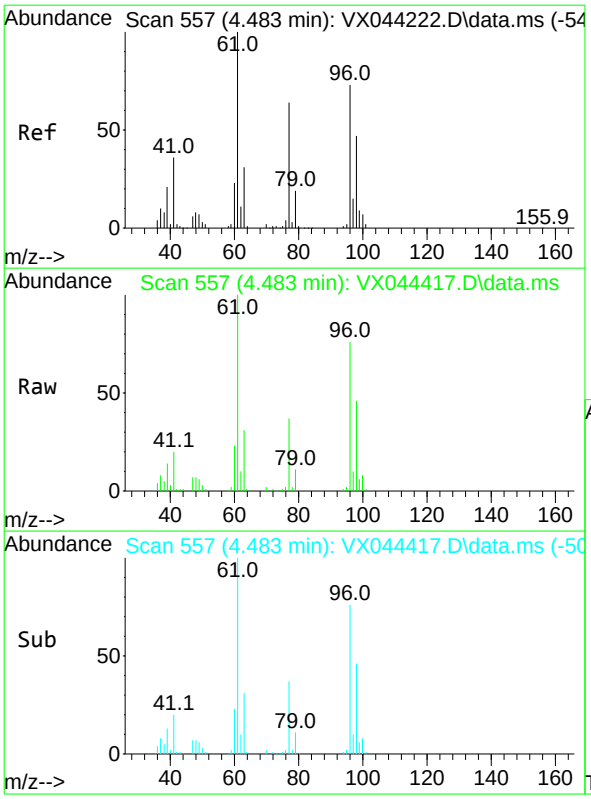


#26
2,2-Dichloropropane
Concen: 29.022 ug/l
RT: 4.470 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 77 Resp: 66622

Ion	Ratio	Lower	Upper
77	100		
97	25.1	10.7	32.1





#27
cis-1,2-Dichloroethene
Concen: 52.601 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

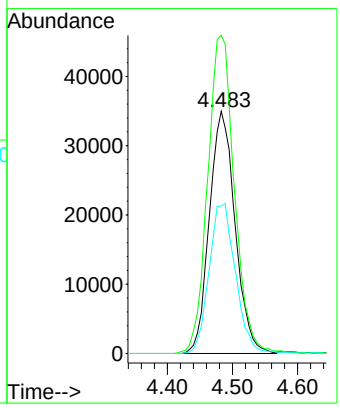
Tgt Ion: 96 Resp: 95958

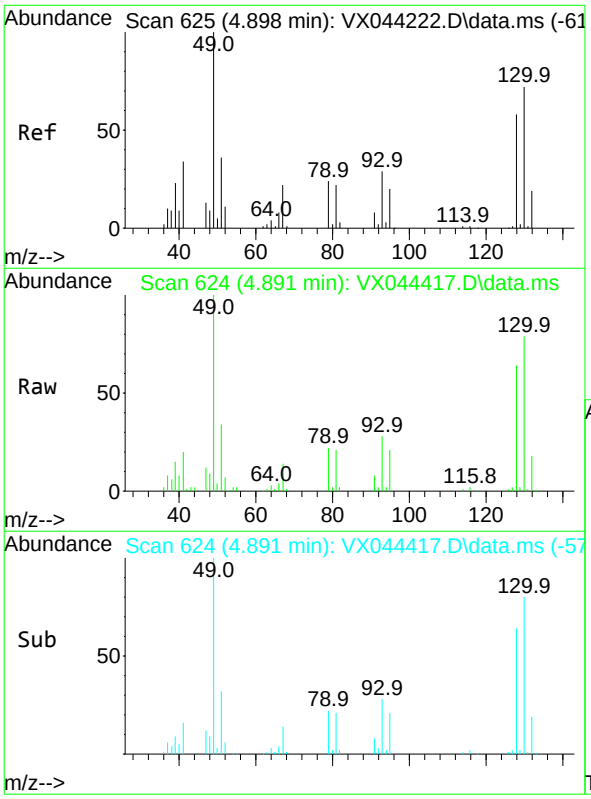
Ion	Ratio	Lower	Upper
96	100		
61	136.9	0.0	299.0
98	63.8	0.0	129.0

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

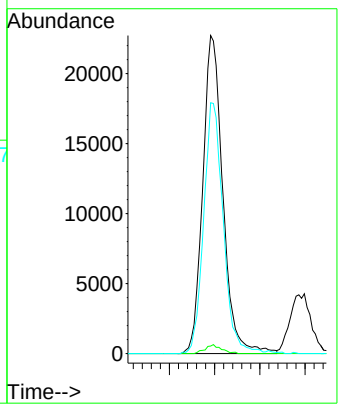


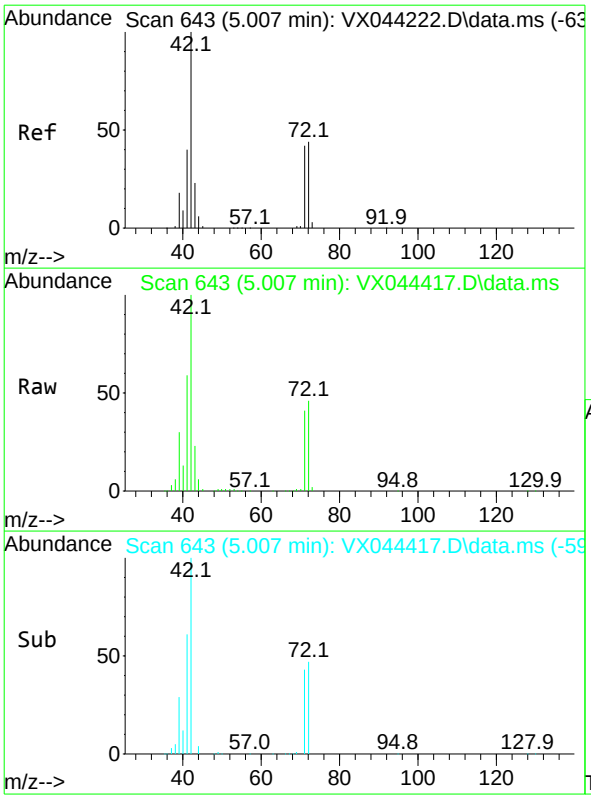


#28
Bromochloromethane
Concen: 50.584 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 49 Resp: 70090

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	76.9	62.1	93.1





#29
Tetrahydrofuran
Concen: 250.581 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

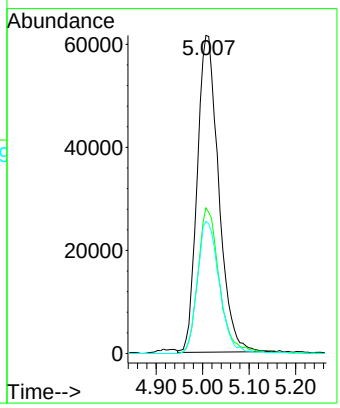
Tgt Ion: 42 Resp: 197080

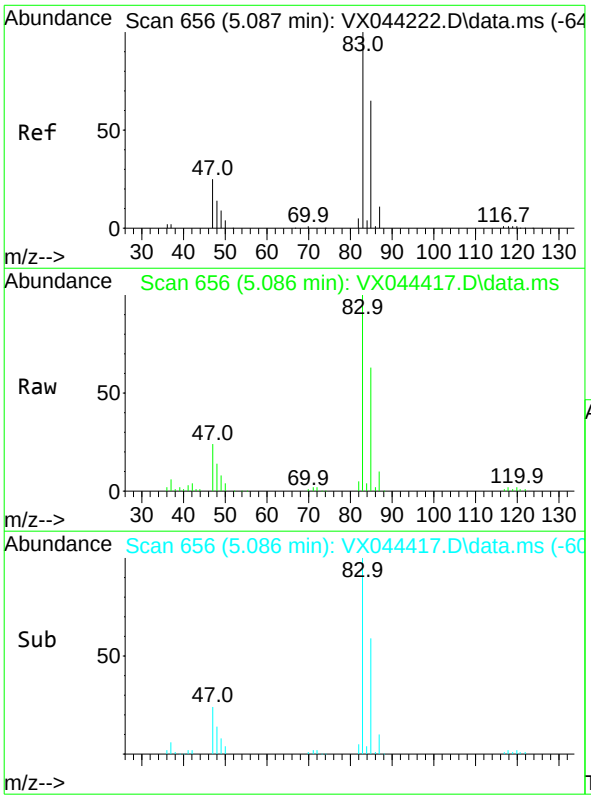
Ion	Ratio	Lower	Upper
42	100		
72	45.7	37.0	55.6
71	42.7	33.6	50.4

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

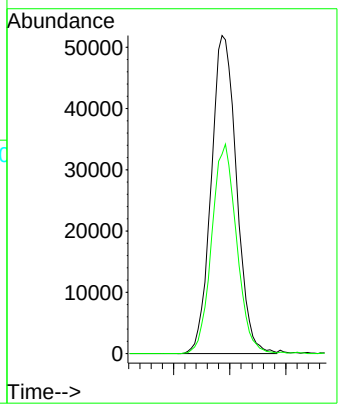


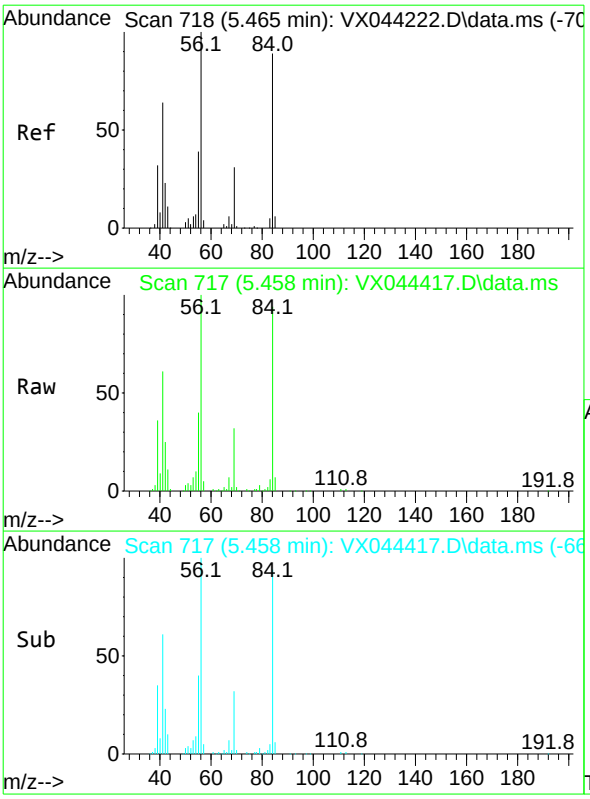


#30
Chloroform
Concen: 51.296 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 83 Resp: 162853

Ion	Ratio	Lower	Upper
83	100		
85	62.7	51.6	77.4





#31
Cyclohexane
Concen: 51.232 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

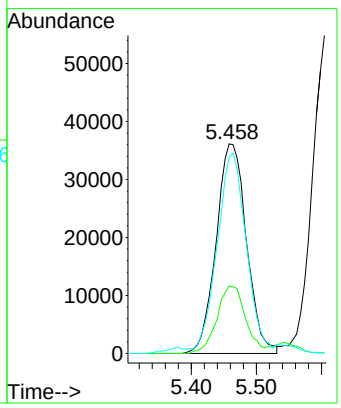
Tgt Ion: 56 Resp: 116900

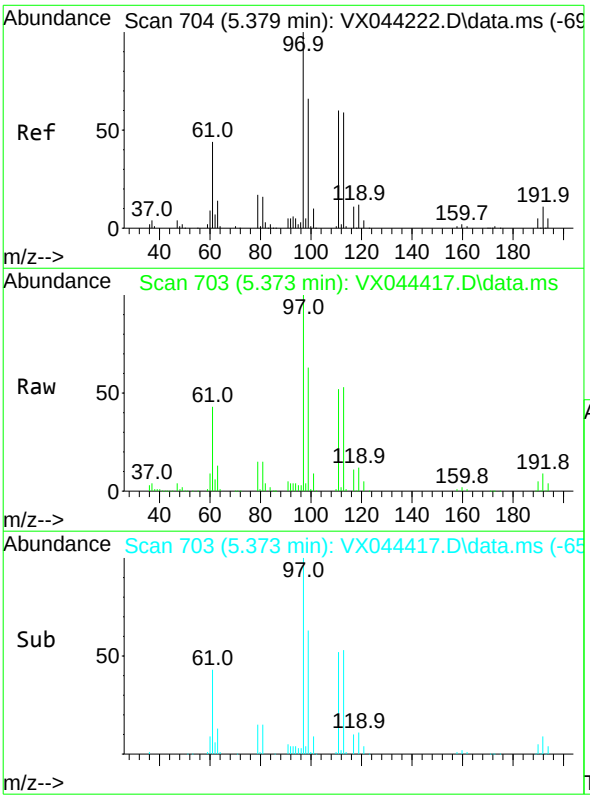
Ion	Ratio	Lower	Upper
56	100		
69	32.2	24.7	37.1
84	90.6	71.0	106.6

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

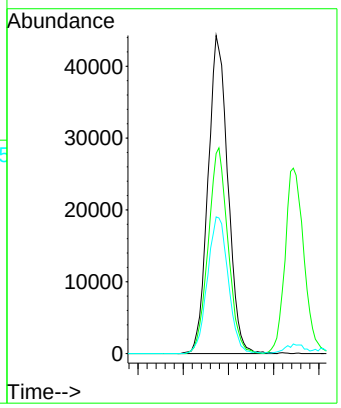


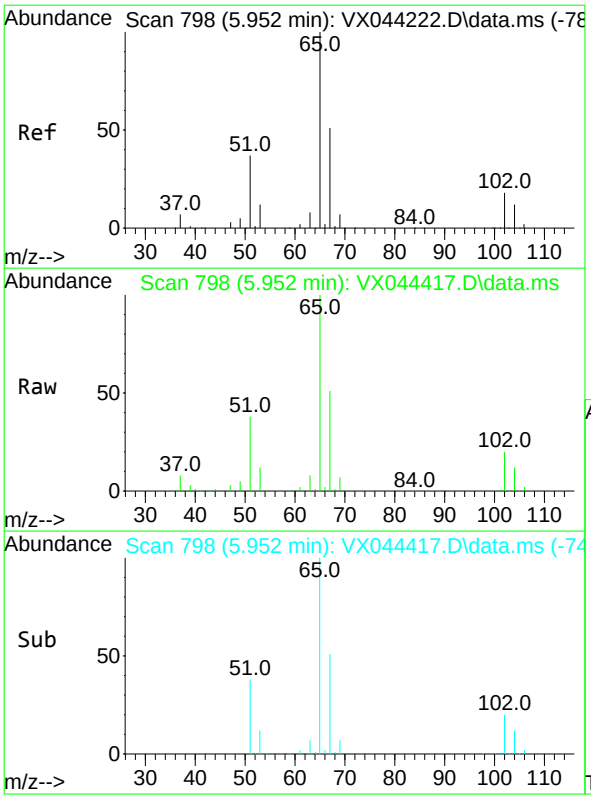


#32
1,1,1-Trichloroethane
Concen: 51.181 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 97 Resp: 134879

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.8	76.2
61	45.2	35.2	52.8

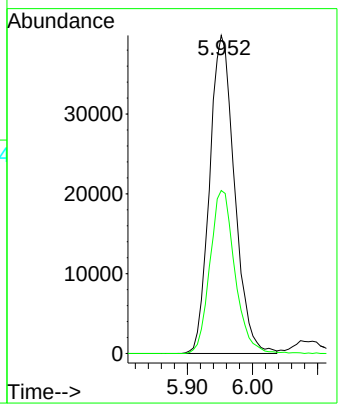




#33
1,2-Dichloroethane-d4
Concen: 50.125 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 65 Resp: 105971

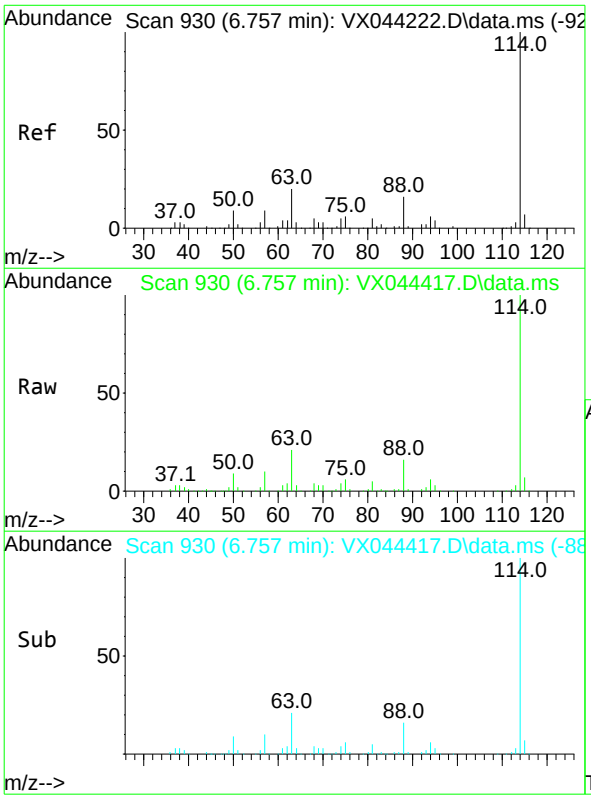
Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

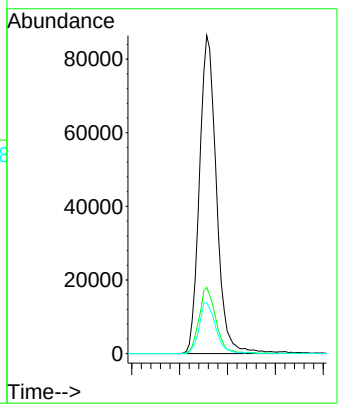
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

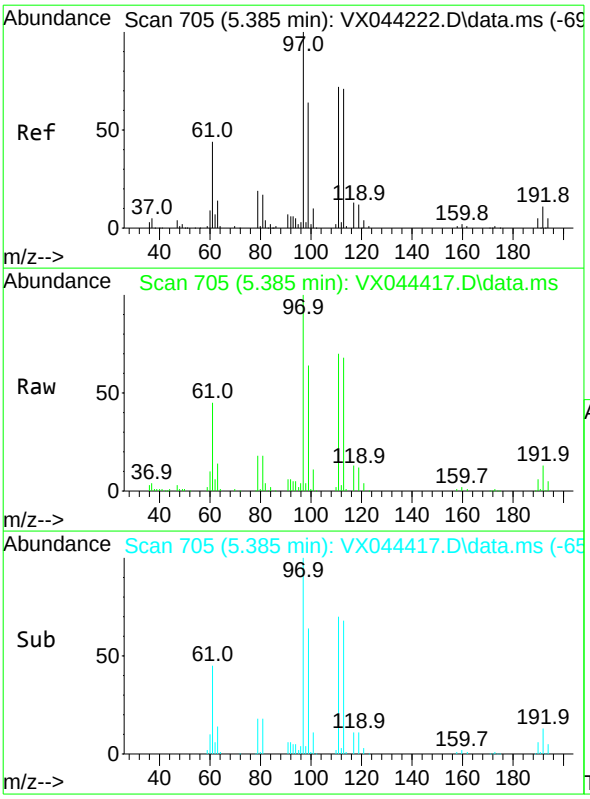


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:114 Resp: 213617

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.6
88	16.1	0.0	31.8

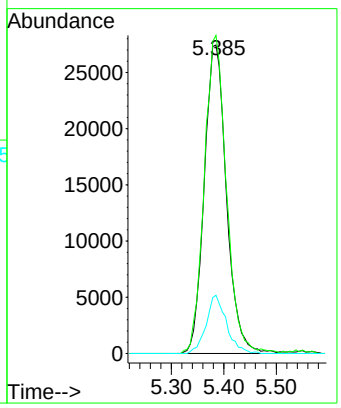




#35
Dibromofluoromethane
Concen: 54.545 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:113 Resp: 80699

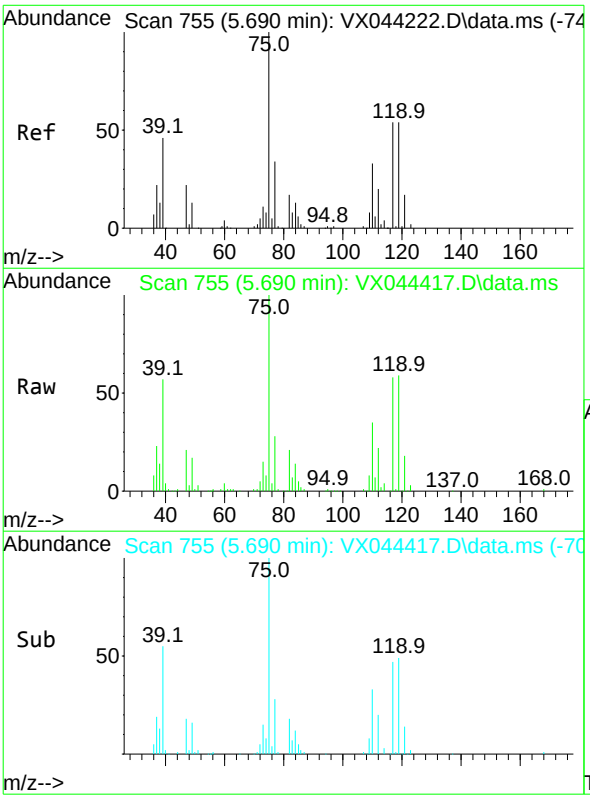
Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.4	120.6
192	17.3	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

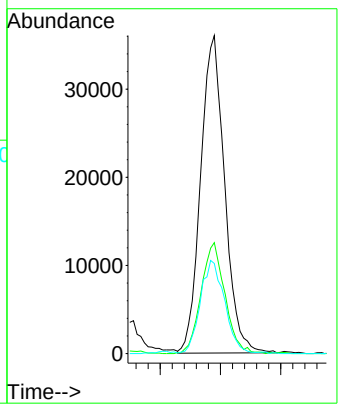
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

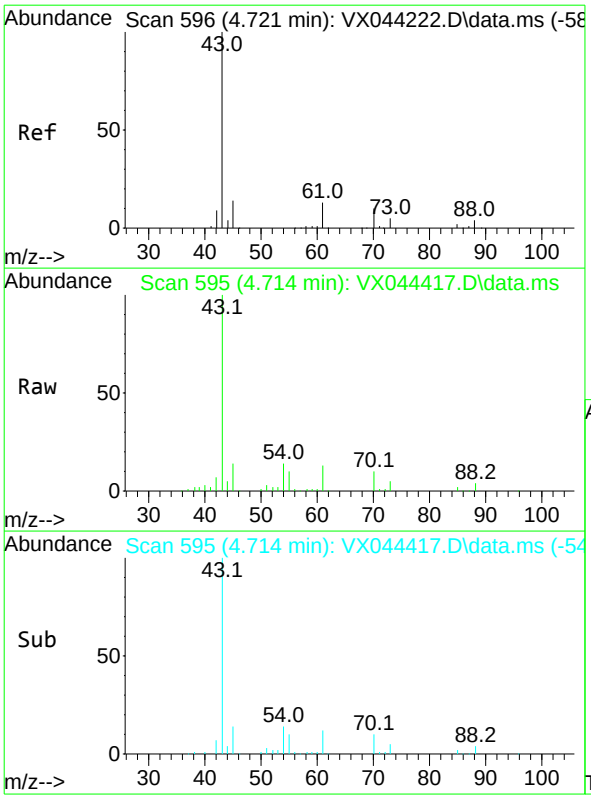


#36
1,1-Dichloropropene
Concen: 52.127 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 75 Resp: 99689

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.3	51.7
77	29.2	25.4	38.0





#37
Ethyl Acetate
Concen: 43.755 ug/l
RT: 4.714 min Scan# 59
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

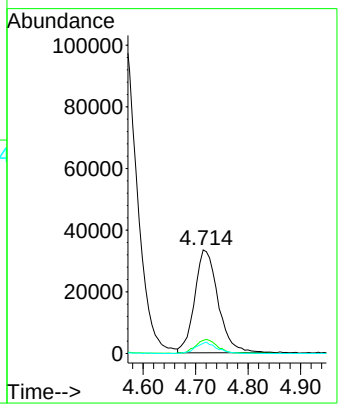
Tgt Ion: 43 Resp: 103439

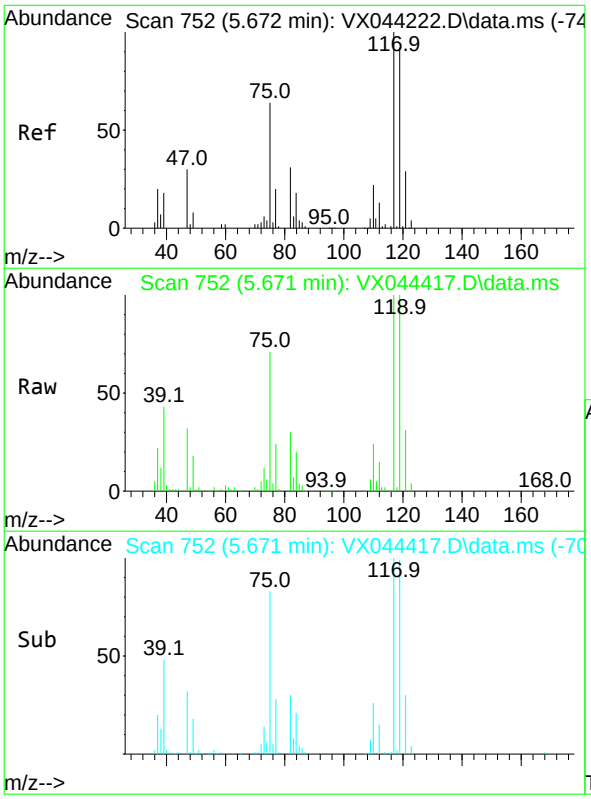
Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.8	14.8
70	9.6	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

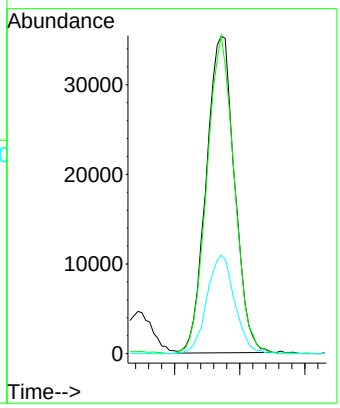


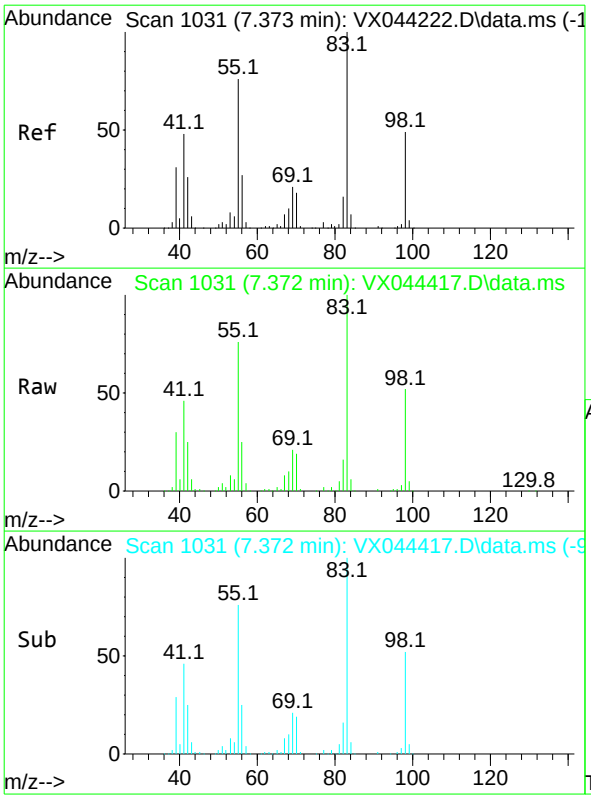


#38
Carbon Tetrachloride
Concen: 51.832 ug/l
RT: 5.671 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:117 Resp: 106720

Ion	Ratio	Lower	Upper
117	100		
119	100.2	74.2	111.4
121	31.1	23.0	34.6

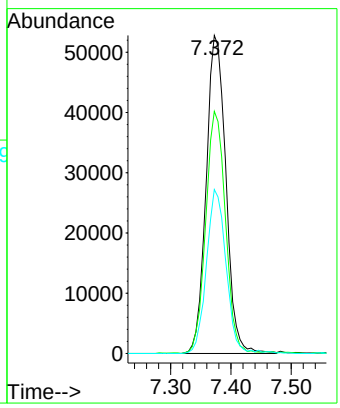




#39
Methylcyclohexane
Concen: 52.572 ug/l
RT: 7.372 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 83 Resp: 120195

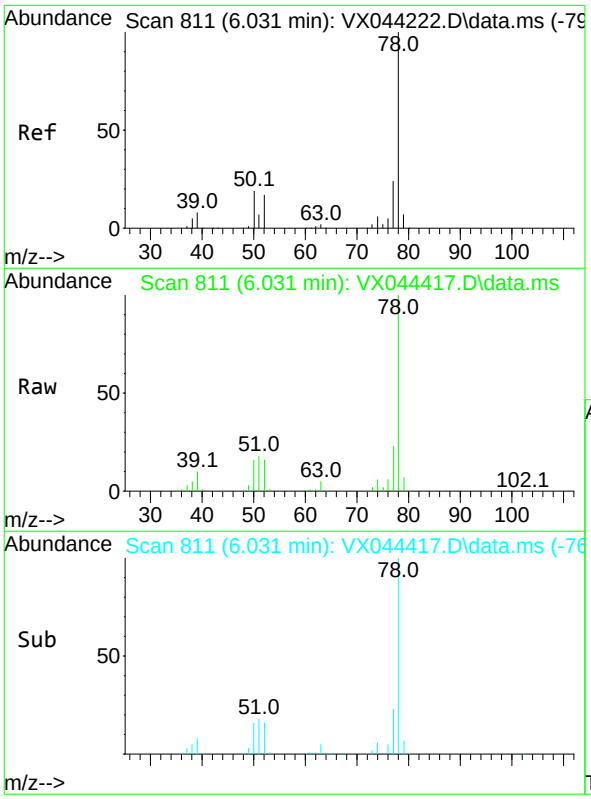
Ion	Ratio	Lower	Upper
83	100		
55	76.0	60.7	91.1
98	51.6	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

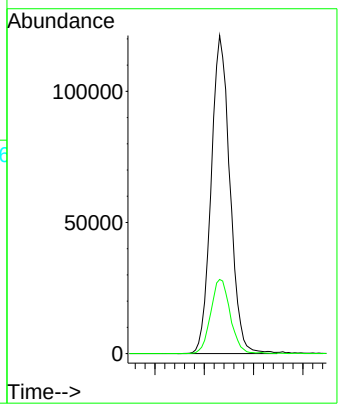
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

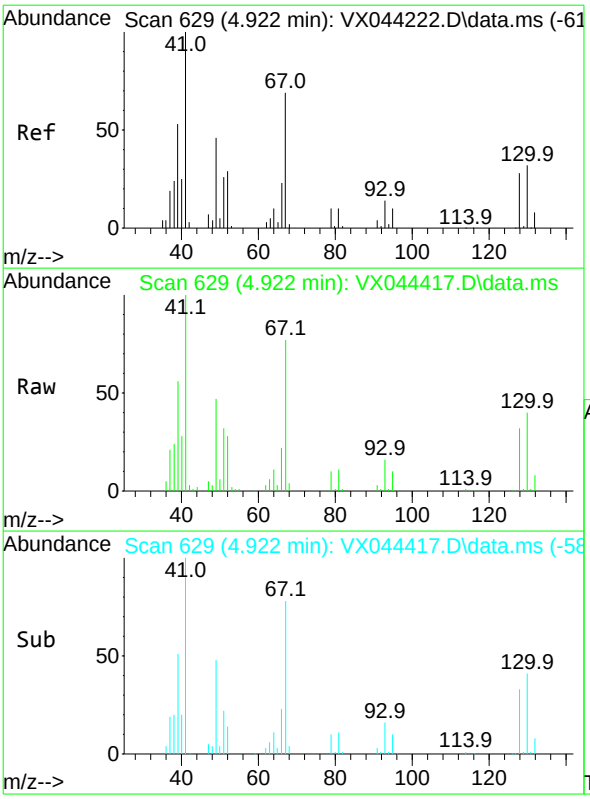


#40
Benzene
Concen: 55.265 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 78 Resp: 320899

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.3	28.9

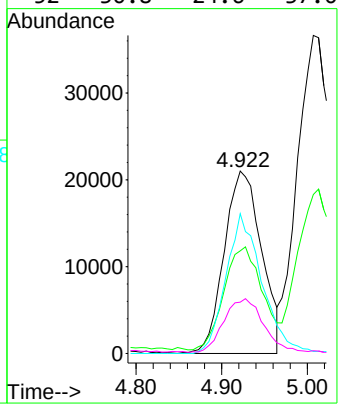




#41
Methacrylonitrile
Concen: 50.785 ug/l
RT: 4.922 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 41 Resp: 63751

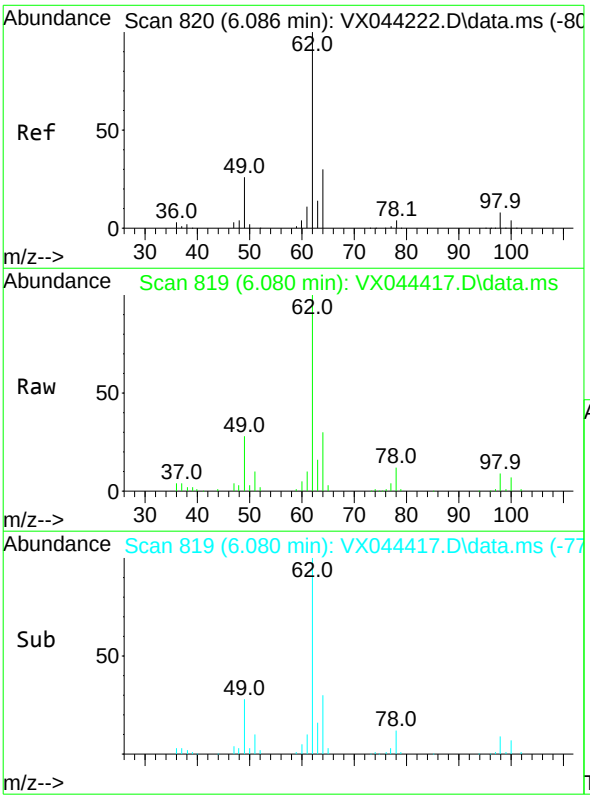
Ion	Ratio	Lower	Upper
41	100		
39	59.4	44.2	66.4
67	74.6	57.2	85.8
52	30.8	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

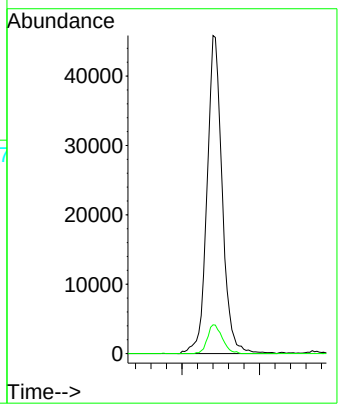
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

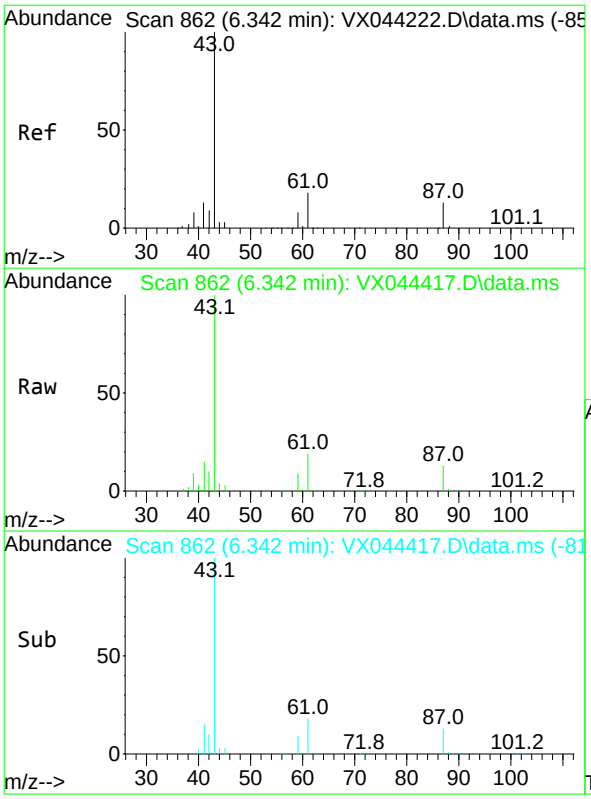


#42
1,2-Dichloroethane
Concen: 52.015 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 62 Resp: 124414

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	15.8

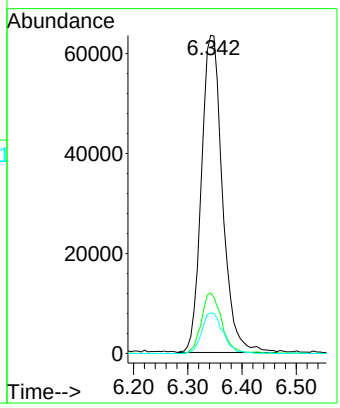




#43
Isopropyl Acetate
Concen: 46.279 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 43 Resp: 170996

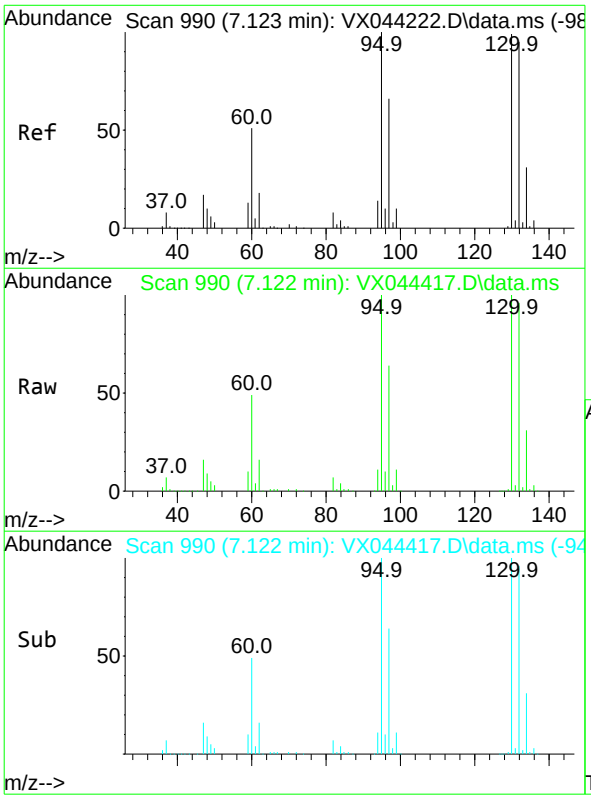
Ion	Ratio	Lower	Upper
43	100		
61	18.4	14.2	21.2
87	12.9	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

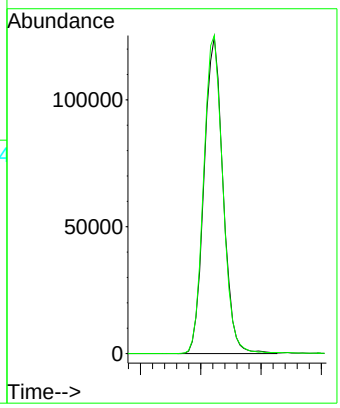
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

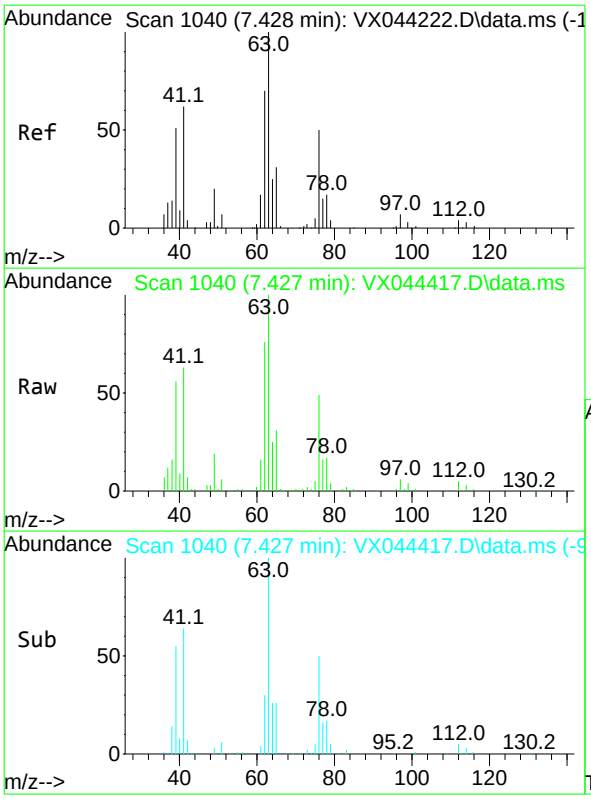


#44
Trichloroethene
Concen: 188.381 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:130 Resp: 272774

Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	201.4





#45
1,2-Dichloropropane
Concen: 52.158 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

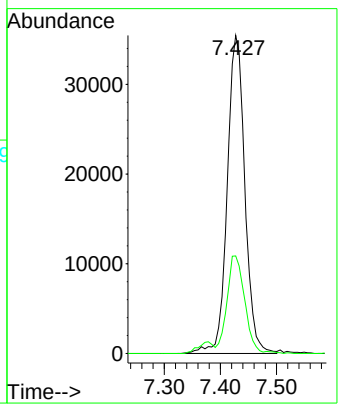
Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

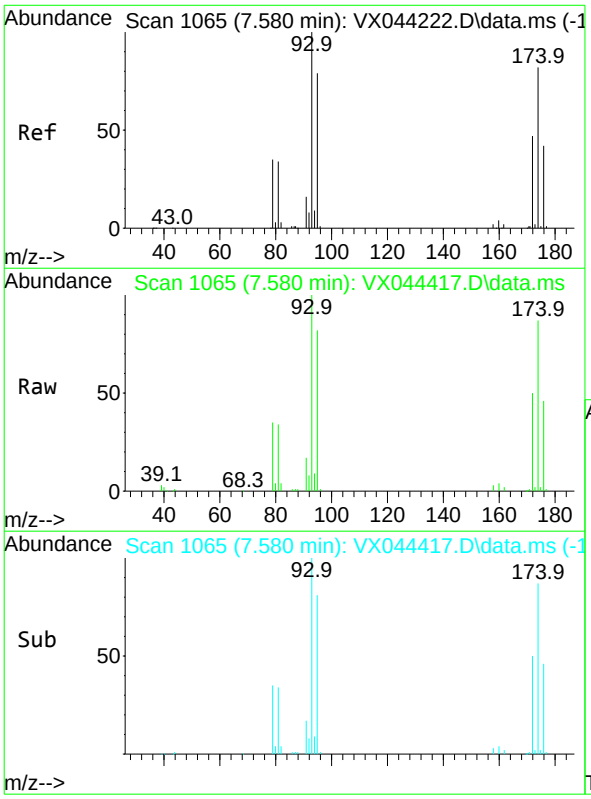
Tgt Ion: 63 Resp: 77375

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.6	37.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

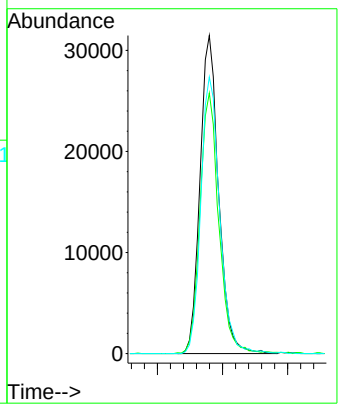


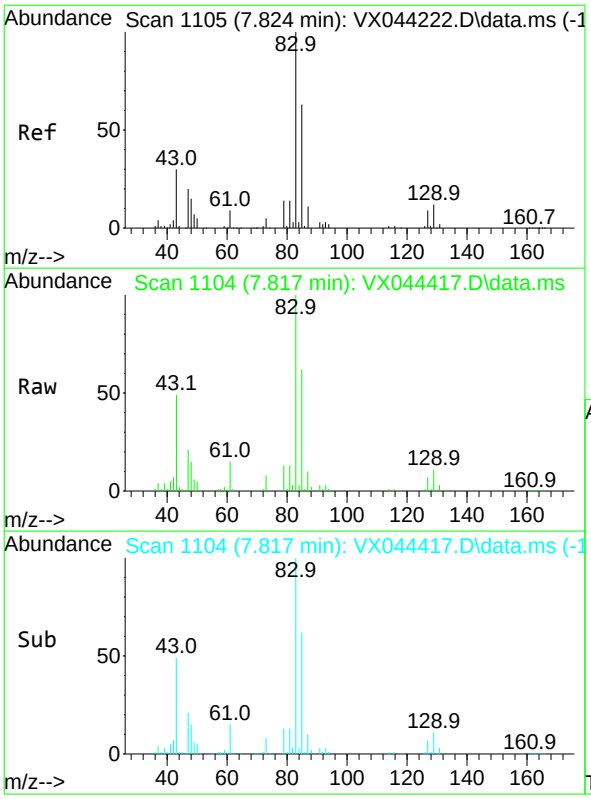


#46
Dibromomethane
Concen: 54.327 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 93 Resp: 62524

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.4	98.2
174	88.2	67.9	101.9





#47
Bromodichloromethane
Concen: 54.314 ug/l
RT: 7.817 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

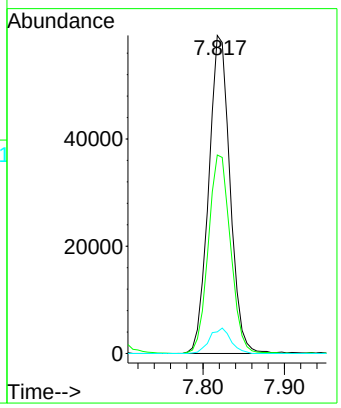
Tgt Ion: 83 Resp: 107956

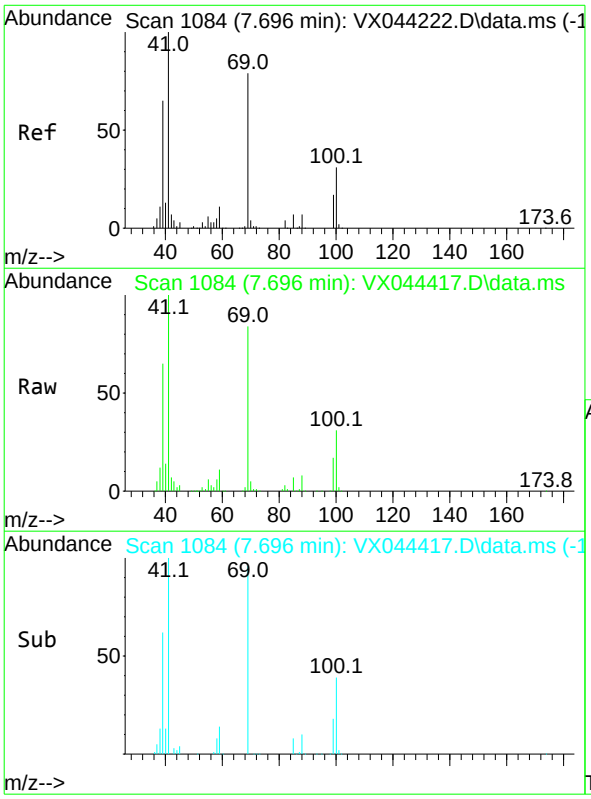
Ion	Ratio	Lower	Upper
83	100		
85	62.4	50.6	75.8
127	6.8	7.3	10.9#

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

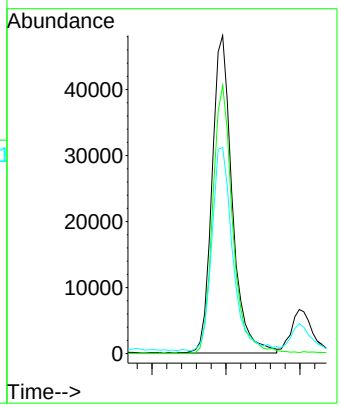


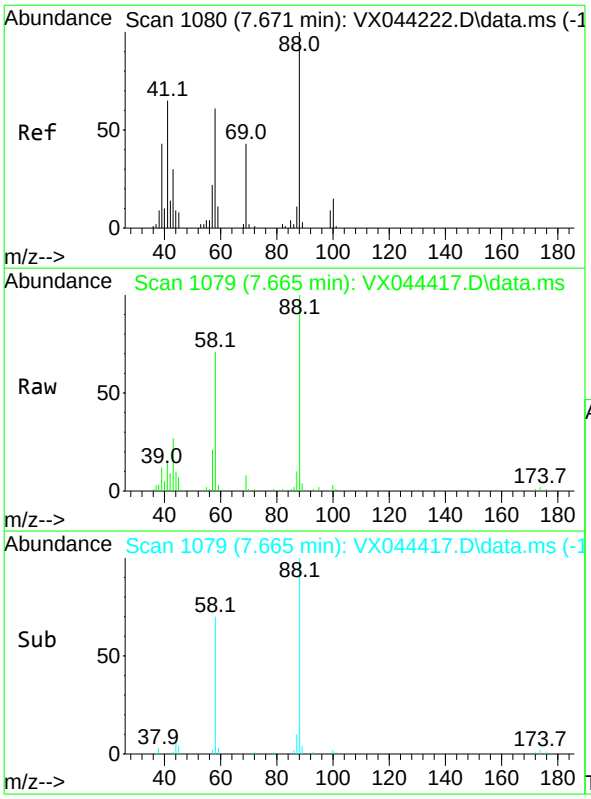


#48
Methyl methacrylate
Concen: 50.787 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 41 Resp: 91092

Ion	Ratio	Lower	Upper
41	100		
69	83.6	62.4	93.6
39	66.2	53.3	79.9





#49
1,4-Dioxane
Concen: 956.536 ug/l
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

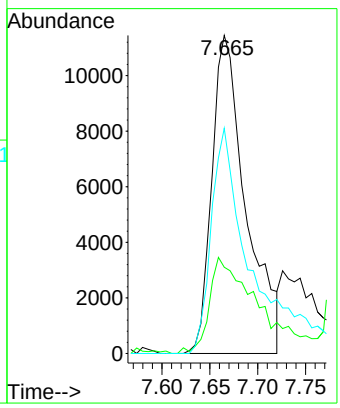
Tgt Ion: 88 Resp: 28445

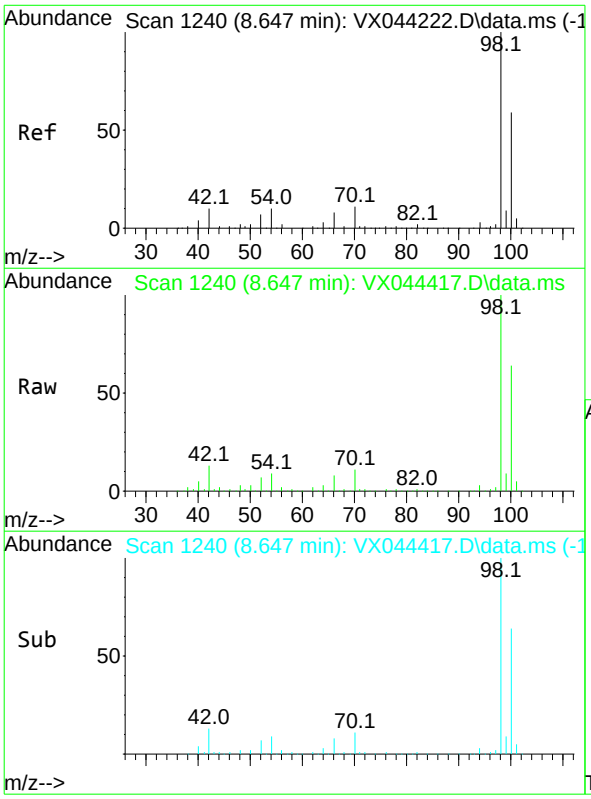
Ion	Ratio	Lower	Upper
88	100		
43	43.2	27.1	40.7#
58	83.2	41.0	61.4#

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

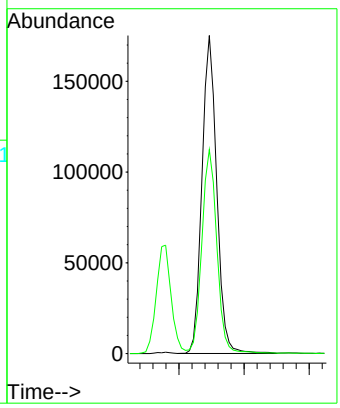


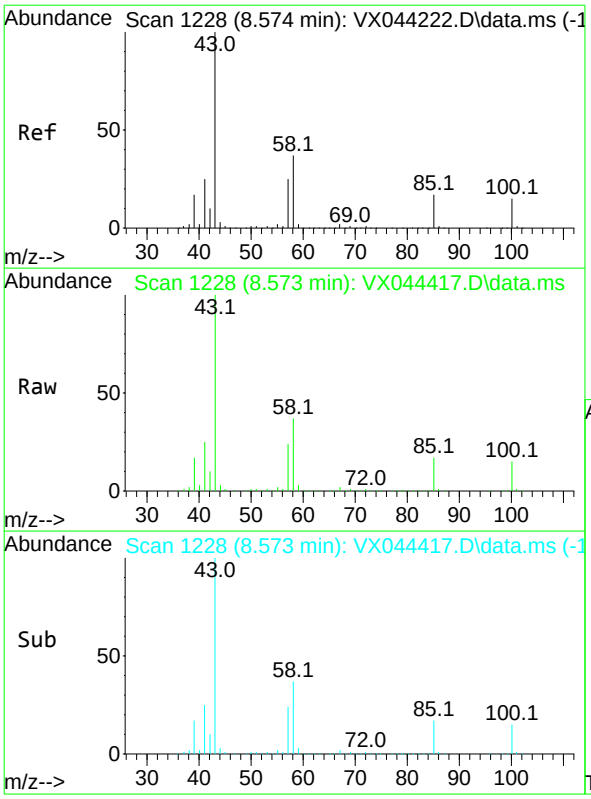


#50
Toluene-d8
Concen: 55.215 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 98 Resp: 275601

Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.5	77.3

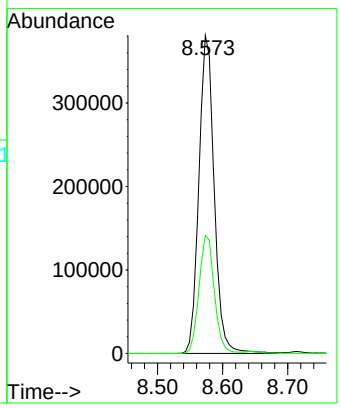




#51
4-Methyl-2-Pentanone
Concen: 262.151 ug/l
RT: 8.573 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 43 Resp: 622807

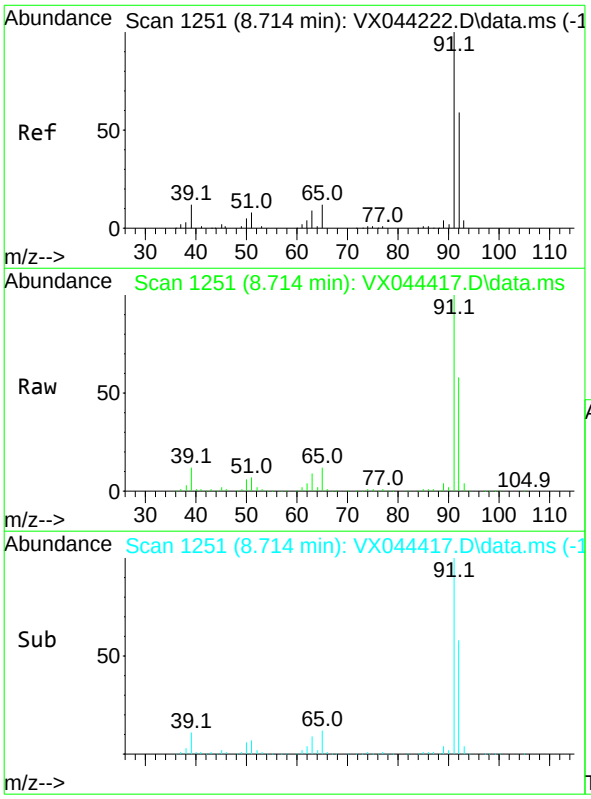
Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

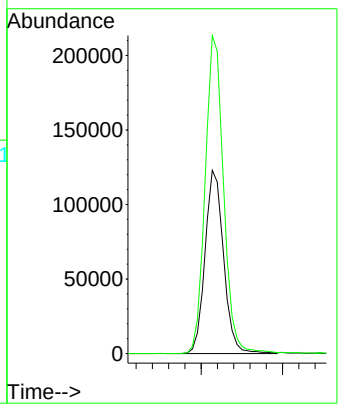
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

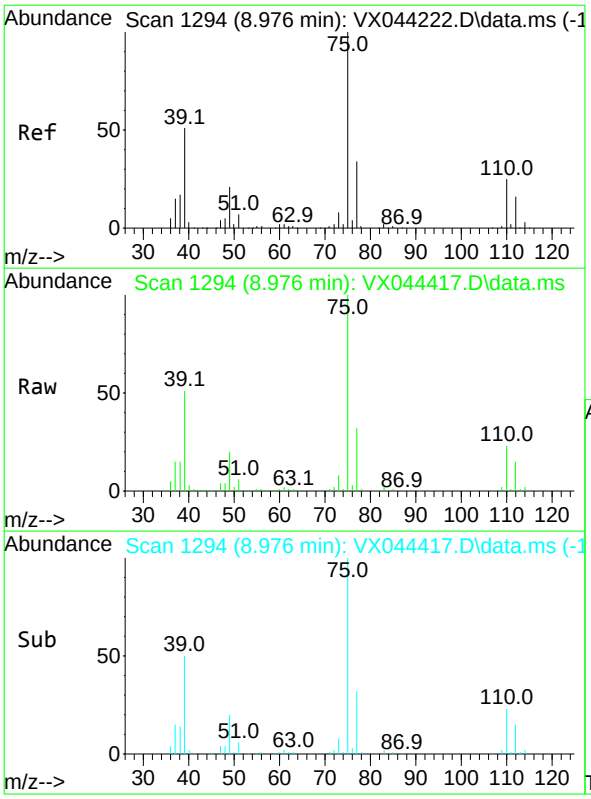


#52
Toluene
Concen: 53.428 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 92 Resp: 194818

Ion	Ratio	Lower	Upper
92	100		
91	172.7	137.0	205.6

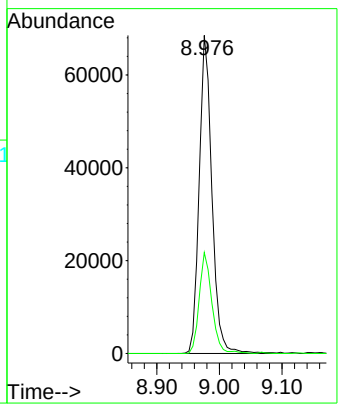




#53
t-1,3-Dichloropropene
Concen: 45.626 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 75 Resp: 96722

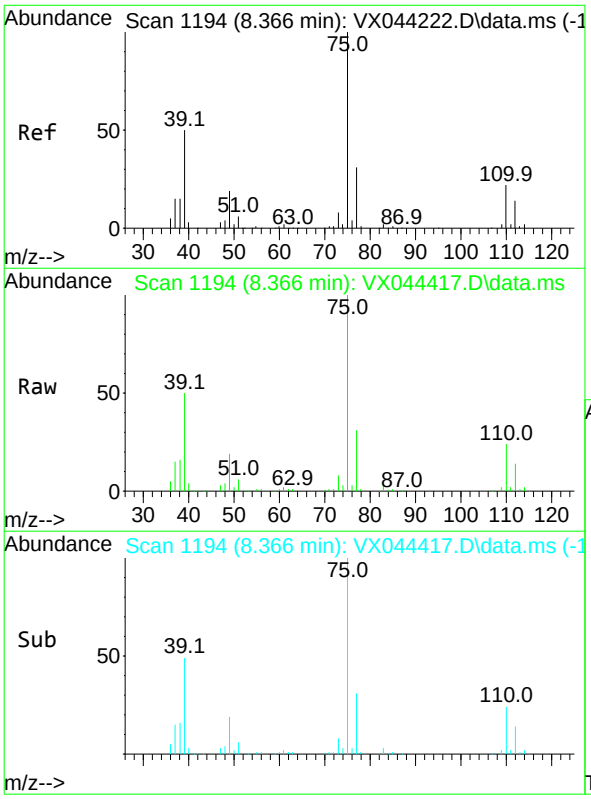
Ion	Ratio	Lower	Upper
75	100		
77	31.7	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

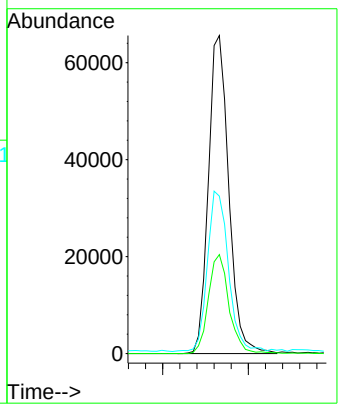
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

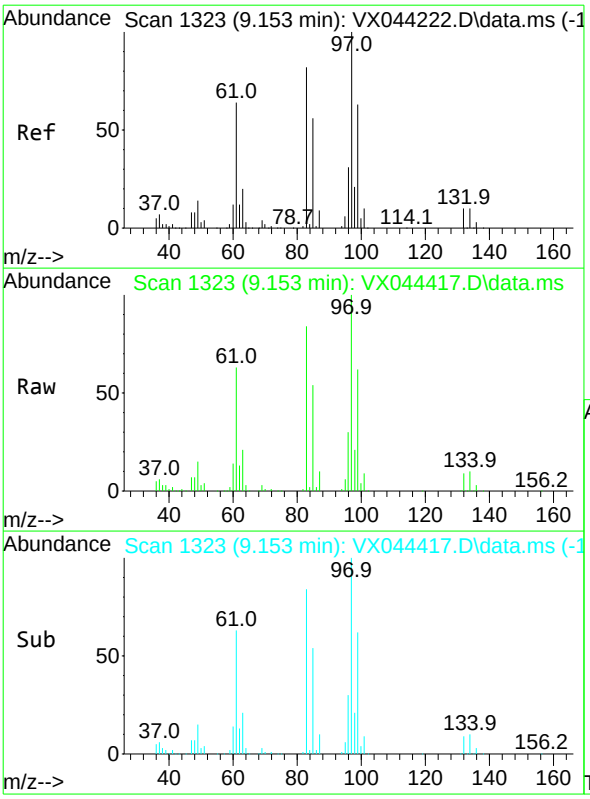


#54
cis-1,3-Dichloropropene
Concen: 50.056 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 75 Resp: 108330

Ion	Ratio	Lower	Upper
75	100		
77	31.1	24.7	37.1
39	48.7	40.3	60.5

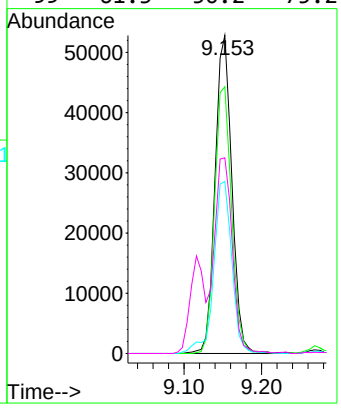




#55
1,1,2-Trichloroethane
Concen: 54.999 ug/l
RT: 9.153 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 97 Resp: 79671

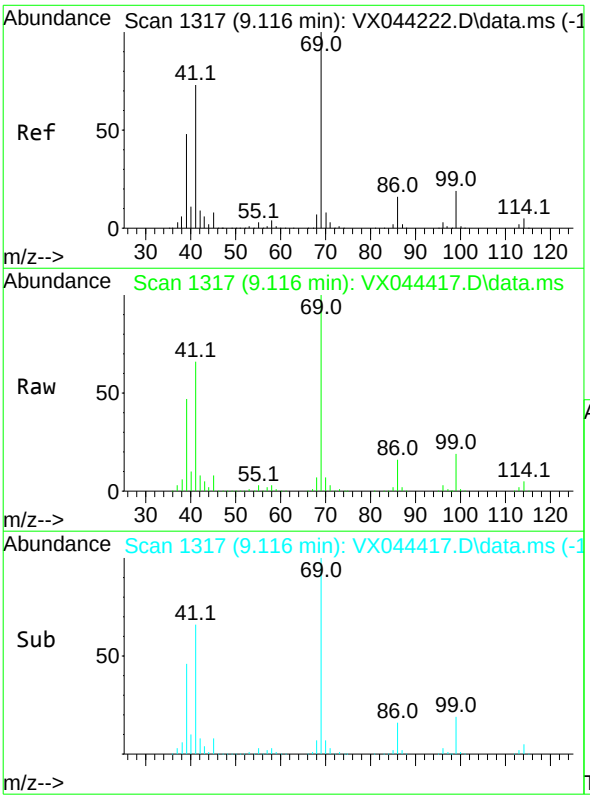
Ion	Ratio	Lower	Upper
97	100		
83	83.9	65.3	97.9
85	54.1	44.6	67.0
99	61.3	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

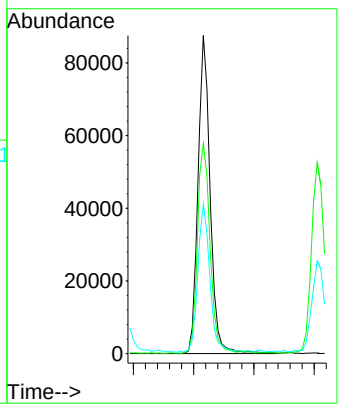
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

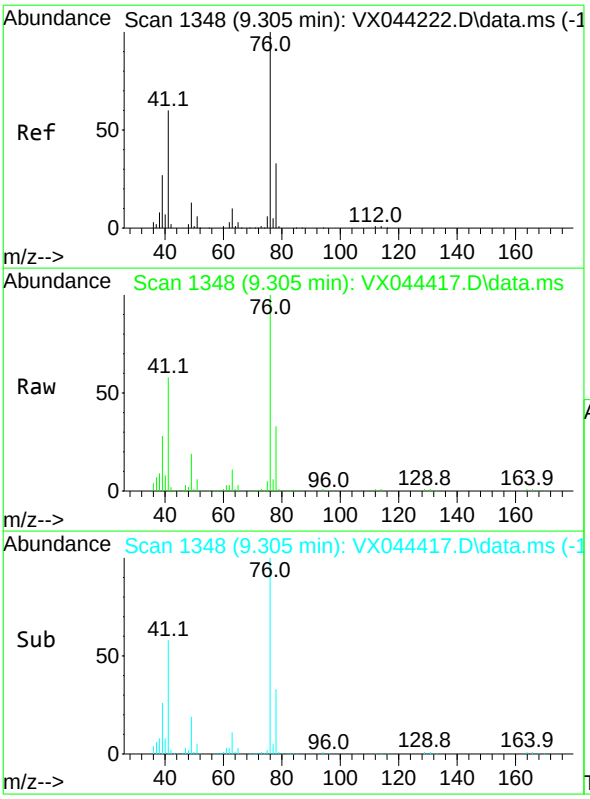


#56
Ethyl methacrylate
Concen: 53.425 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 69 Resp: 122174

Ion	Ratio	Lower	Upper
69	100		
41	68.2	56.6	85.0
39	46.3	37.4	56.0

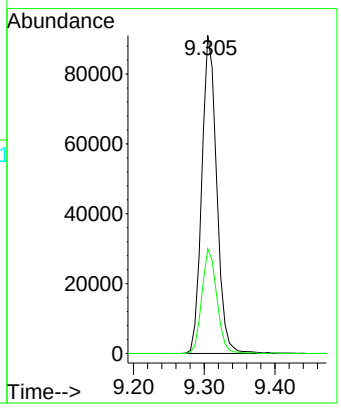




#57
1,3-Dichloropropane
Concen: 52.852 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 76 Resp: 133261

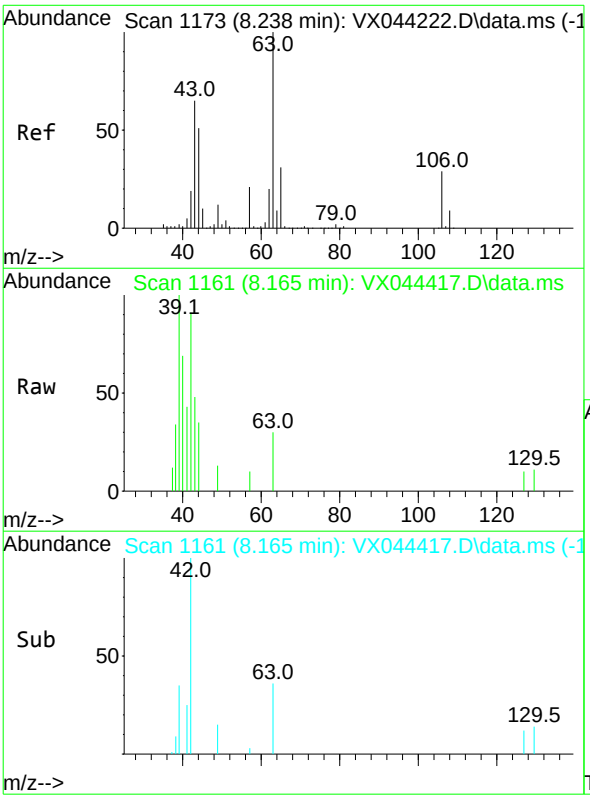
Ion	Ratio	Lower	Upper
76	100		
78	33.1	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

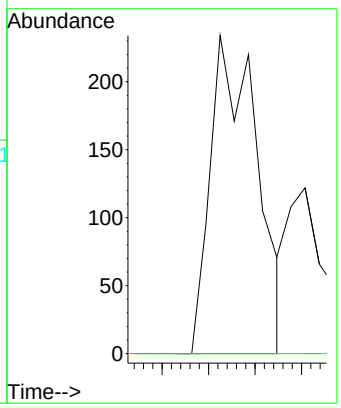
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

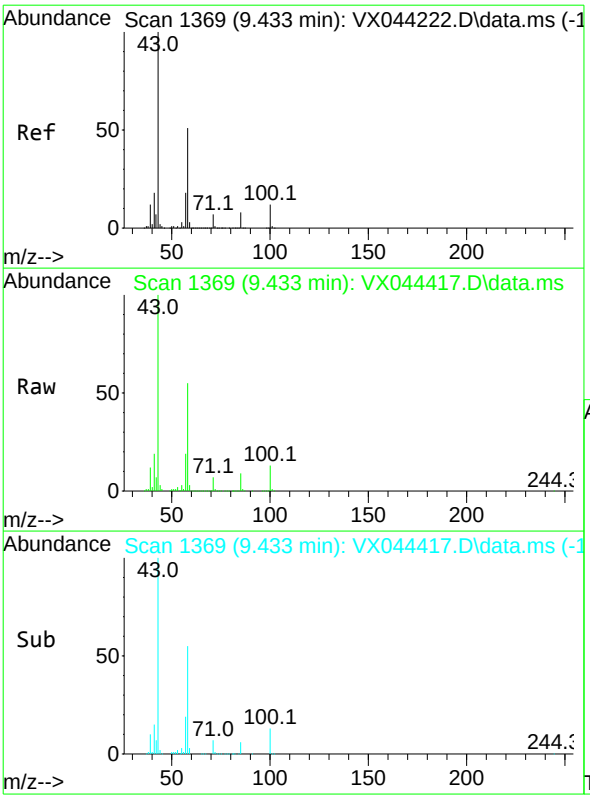


#58
2-Chloroethyl Vinyl ether
Concen: 0.284 ug/l
RT: 8.165 min Scan# 1161
Delta R.T. -0.073 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 63 Resp: 328

Ion	Ratio	Lower	Upper
63	100		
106	0.0	22.8	34.2#





#59
2-Hexanone
Concen: 265.129 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

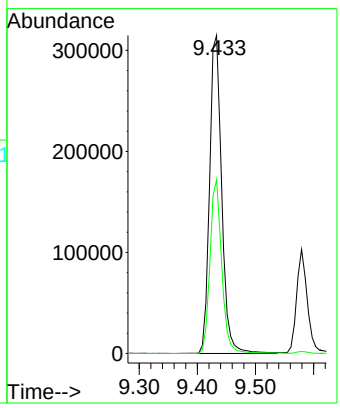
Tgt Ion: 43 Resp: 455924

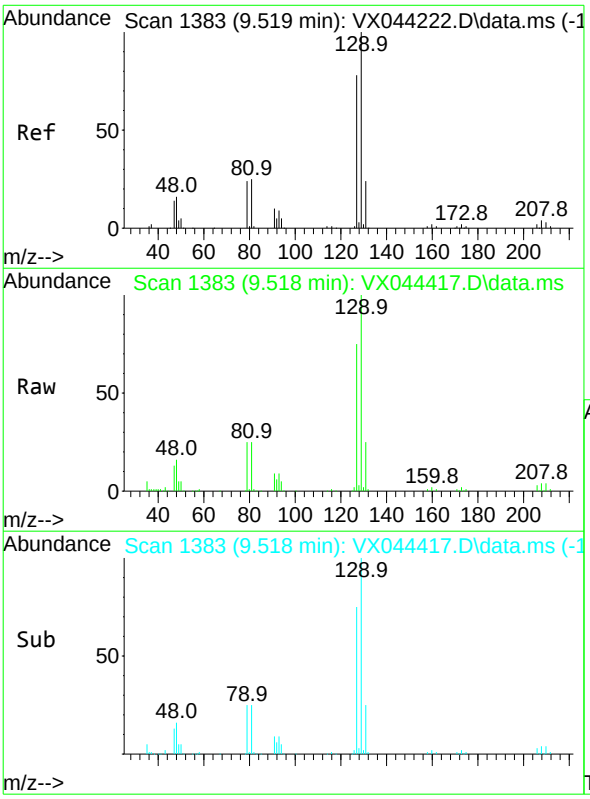
Ion	Ratio	Lower	Upper
43	100		
58	53.0	25.7	77.0

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

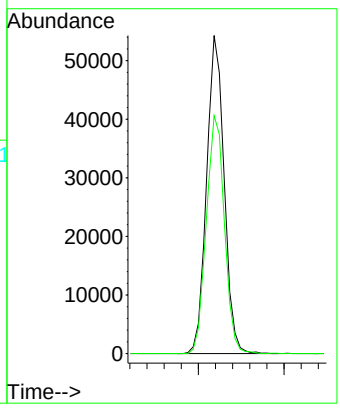


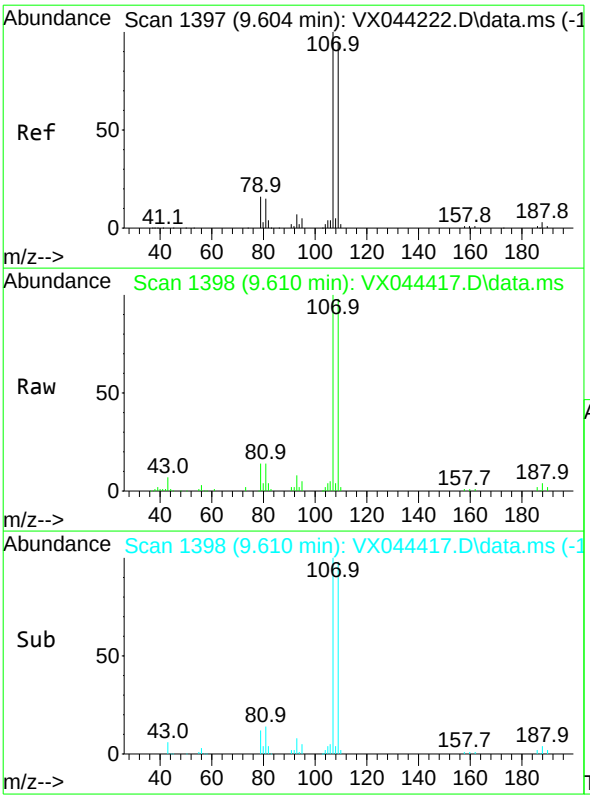


#60
Dibromochloromethane
Concen: 50.234 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:129 Resp: 77087

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.5	115.3

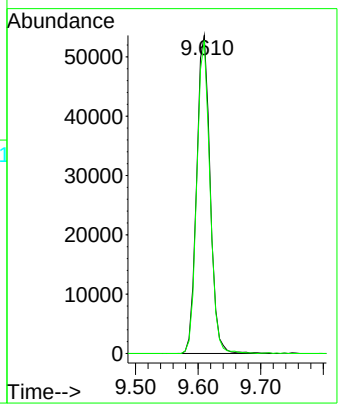




#61
1,2-Dibromoethane
Concen: 54.550 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:107 Resp: 80434

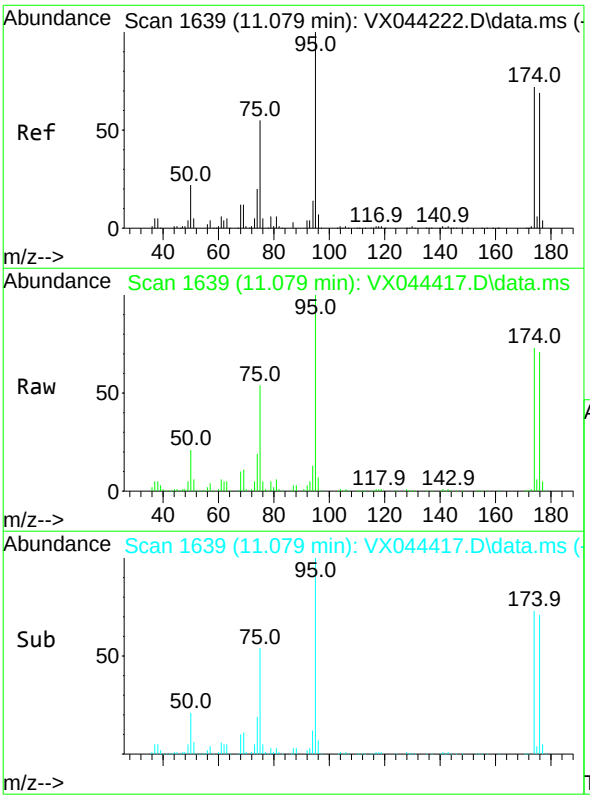
Ion	Ratio	Lower	Upper
107	100		
109	95.9	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

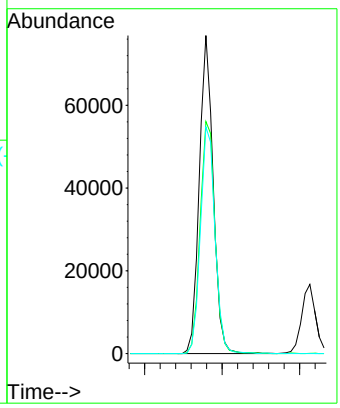
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

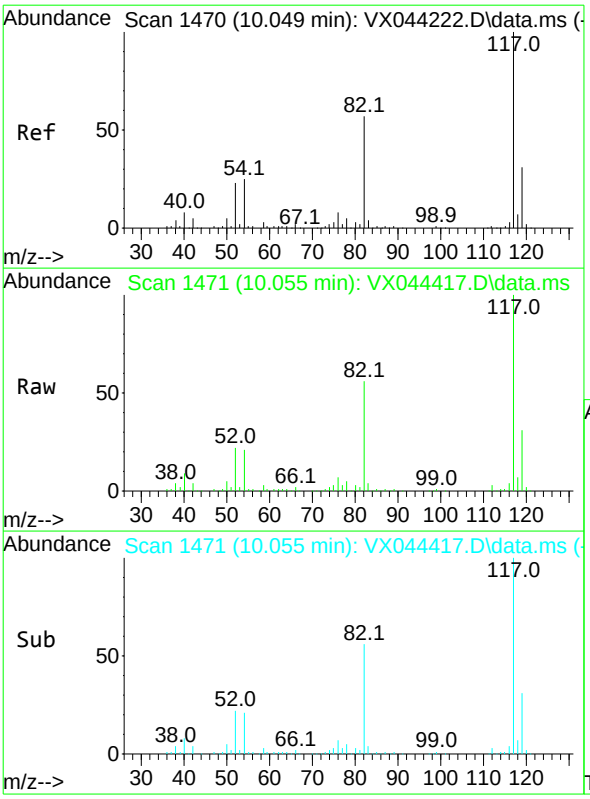


#62
4-Bromofluorobenzene
Concen: 54.763 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 95 Resp: 95512

Ion	Ratio	Lower	Upper
95	100		
174	78.0	0.0	145.8
176	74.8	0.0	137.8

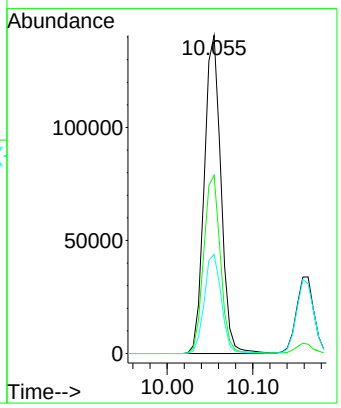




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:117 Resp: 190465

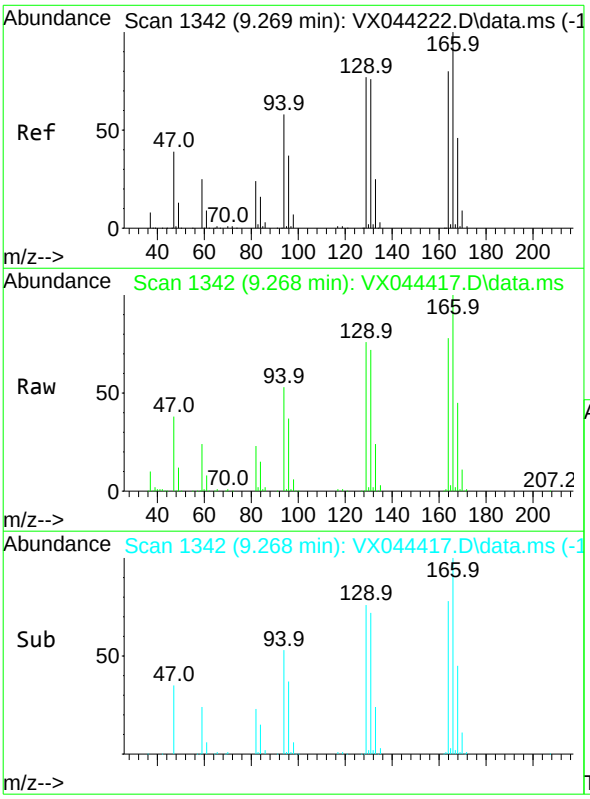
Ion	Ratio	Lower	Upper
117	100		
82	56.0	45.8	68.8
119	31.2	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

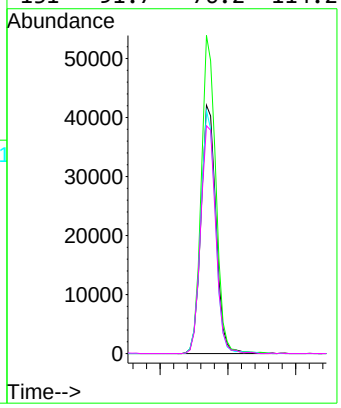
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

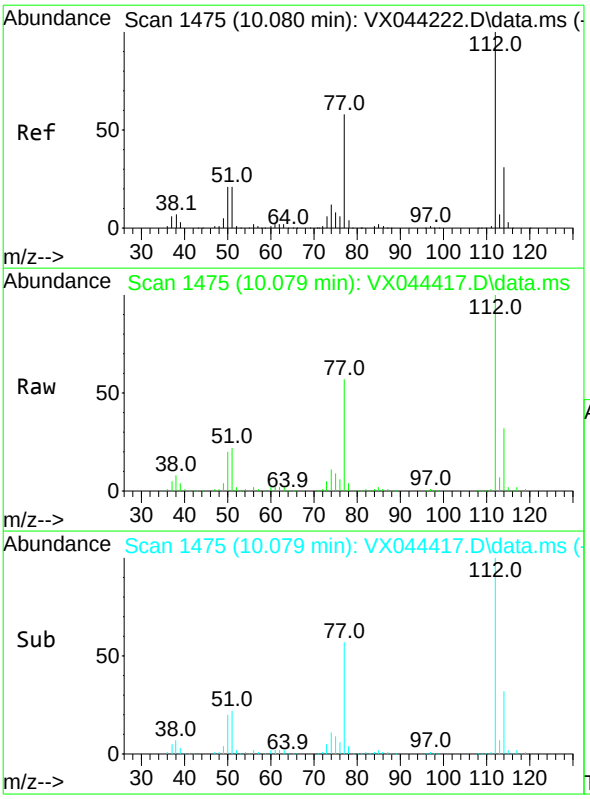


#64
Tetrachloroethene
Concen: 51.043 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:164 Resp: 64526

Ion	Ratio	Lower	Upper
164	100		
166	128.1	100.4	150.6
129	97.9	77.2	115.8
131	91.7	76.2	114.2





#65
Chlorobenzene
Concen: 52.067 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

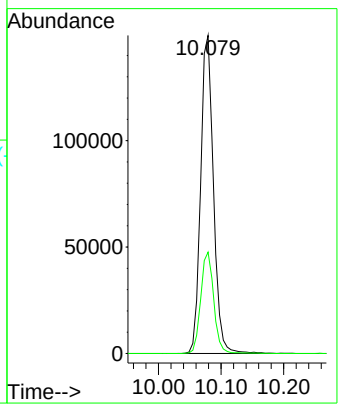
Tgt Ion:112 Resp: 212499

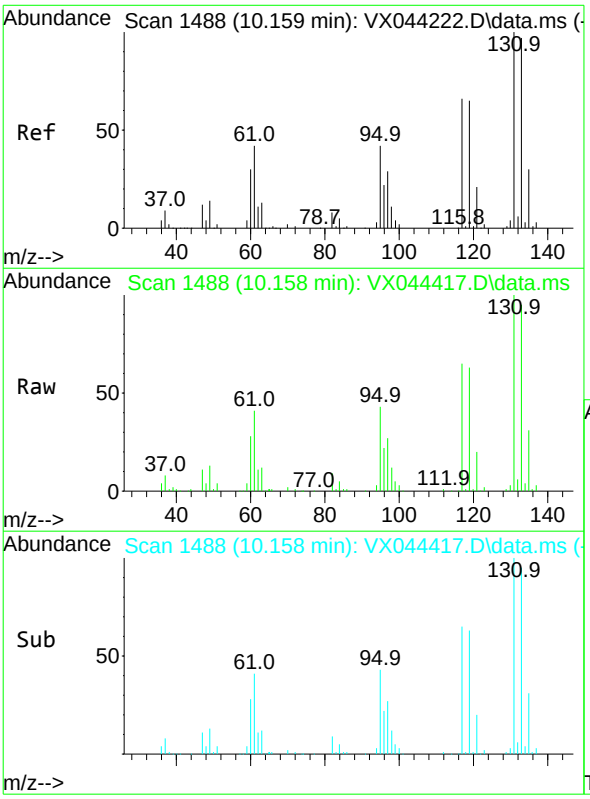
Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.0	37.6

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

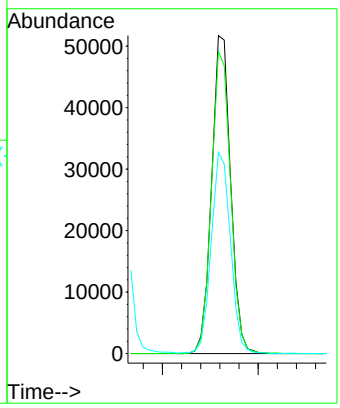


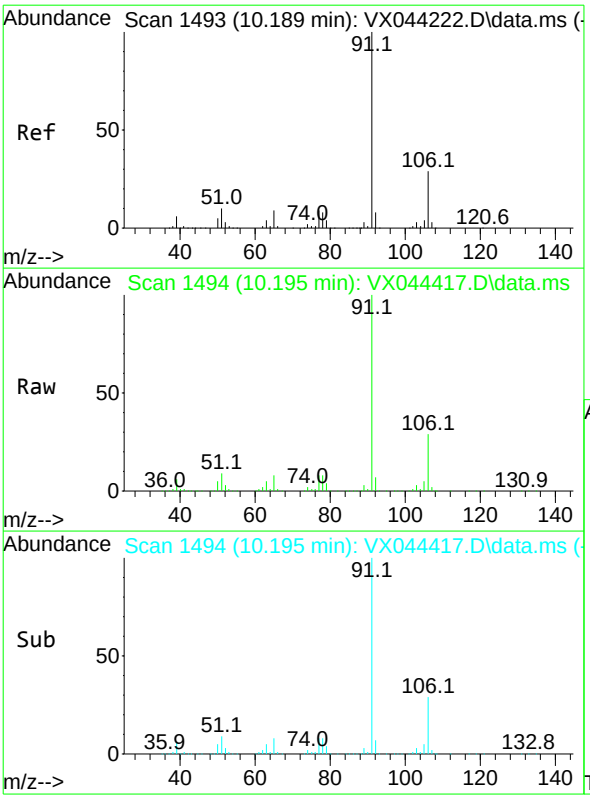


#66
1,1,1,2-Tetrachloroethane
Concen: 54.299 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:131 Resp: 71222

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.3	141.8
119	64.3	31.6	95.0





#67
Ethyl Benzene
Concen: 51.729 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

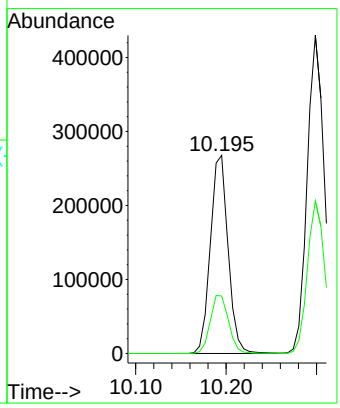
Tgt Ion: 91 Resp: 364782

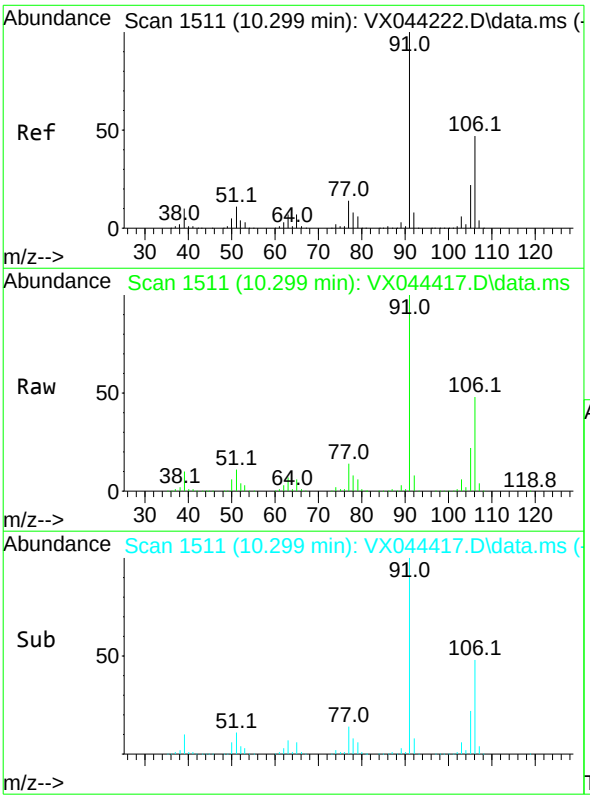
Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.5	35.3

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

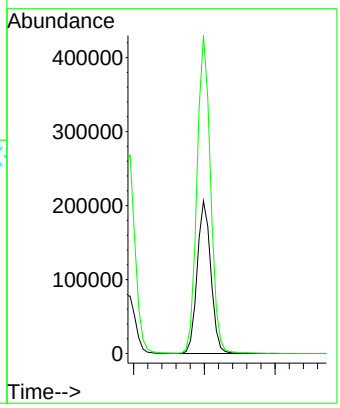


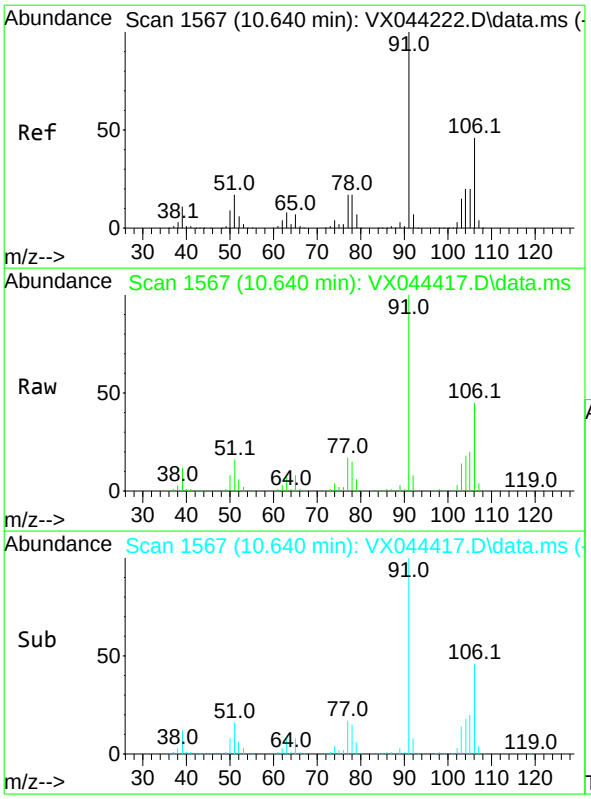


#68
m/p-Xylenes
Concen: 106.816 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:106 Resp: 276393

Ion	Ratio	Lower	Upper
106	100		
91	206.6	170.2	255.2

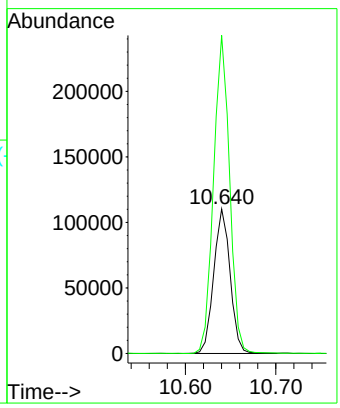




#69
o-Xylene
Concen: 53.138 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:106 Resp: 139121

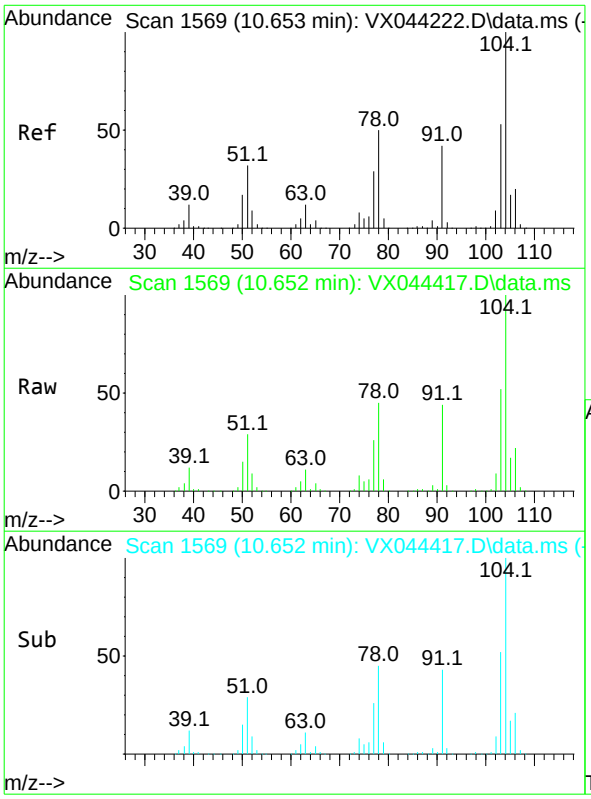
Ion	Ratio	Lower	Upper
106	100		
91	215.9	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

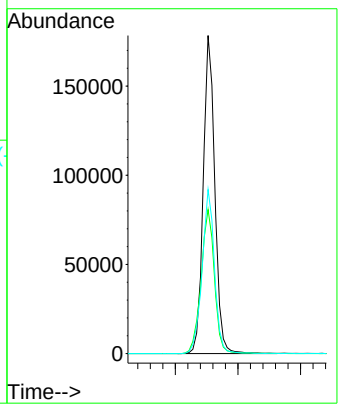
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

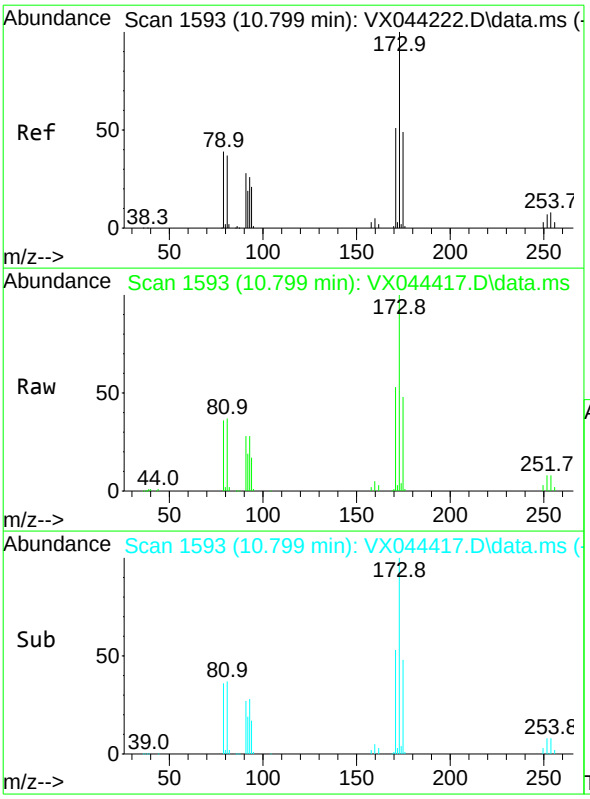


#70
Styrene
Concen: 54.597 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:104 Resp: 229145

Ion	Ratio	Lower	Upper
104	100		
78	52.2	44.6	67.0
103	55.4	45.4	68.0





#71
Bromoform
Concen: 50.371 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

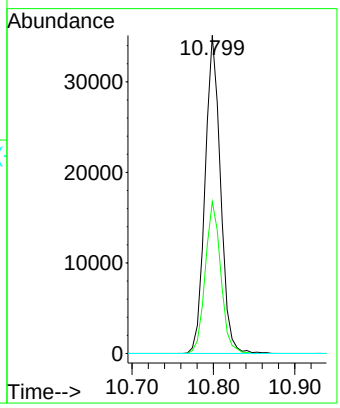
Tgt Ion:173 Resp: 46210

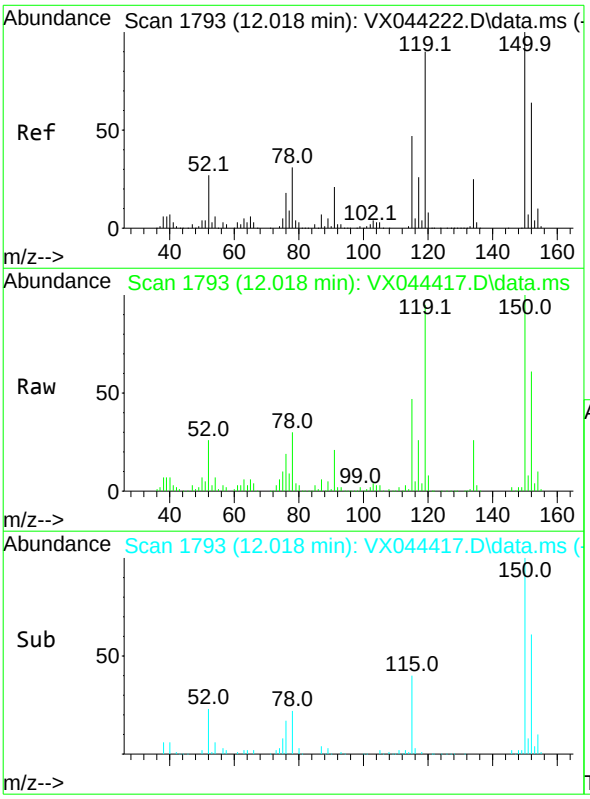
Ion	Ratio	Lower	Upper
173	100		
175	47.9	23.8	71.4
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

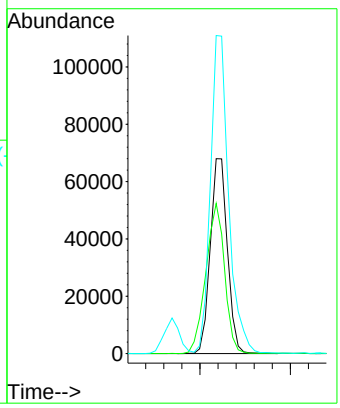


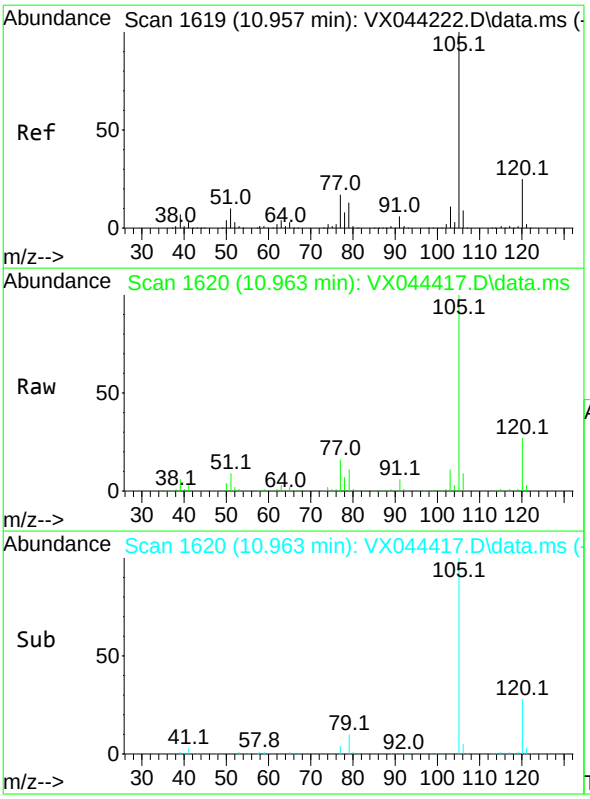


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:152 Resp: 89259

Ion	Ratio	Lower	Upper
152	100		
115	84.6	44.5	133.3
150	173.8	0.0	353.8





#73
Isopropylbenzene
Concen: 51.758 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

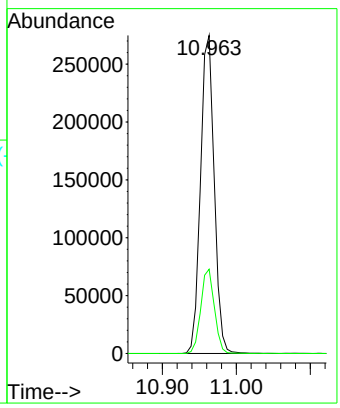
Tgt Ion:105 Resp: 353672

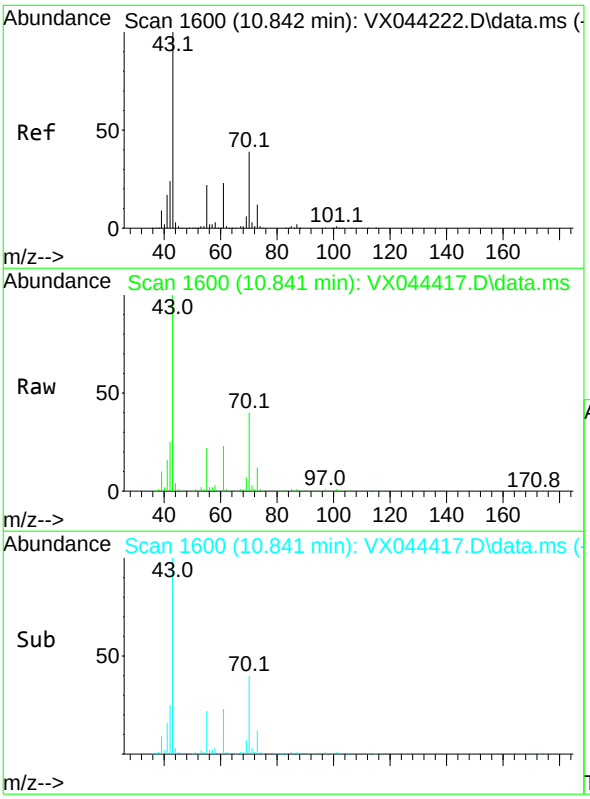
Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.1	39.3

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

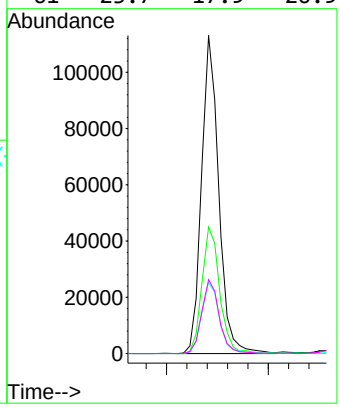


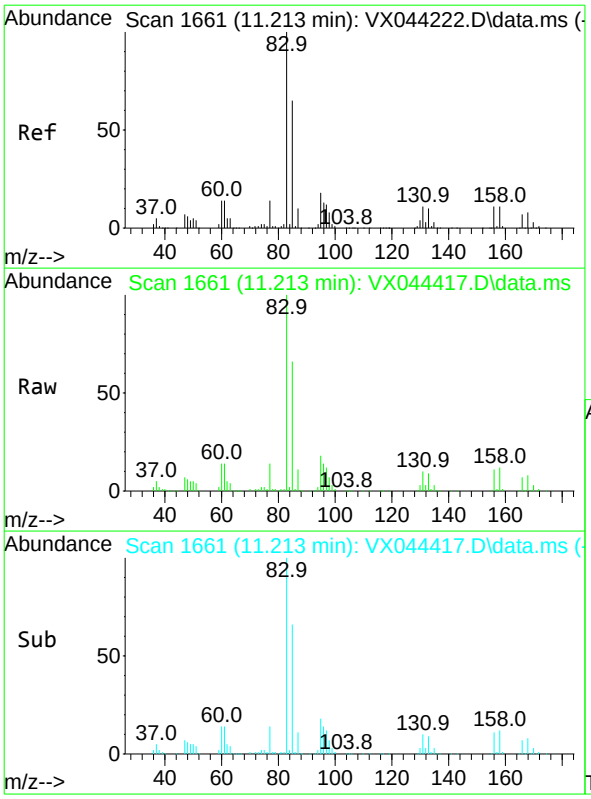


#74
N-amyl acetate
Concen: 42.122 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 43 Resp: 133021

Ion	Ratio	Lower	Upper
43	100		
70	41.3	31.9	47.9
55	23.2	17.9	26.9
61	23.7	17.9	26.9





#75
1,1,2,2-Tetrachloroethane
Concen: 50.787 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

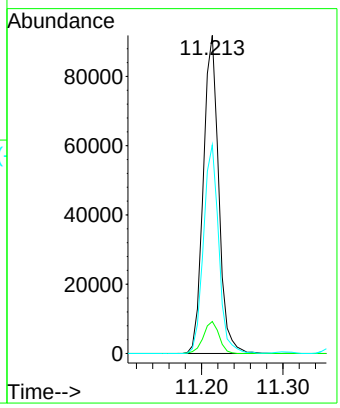
Tgt Ion: 83 Resp: 120537

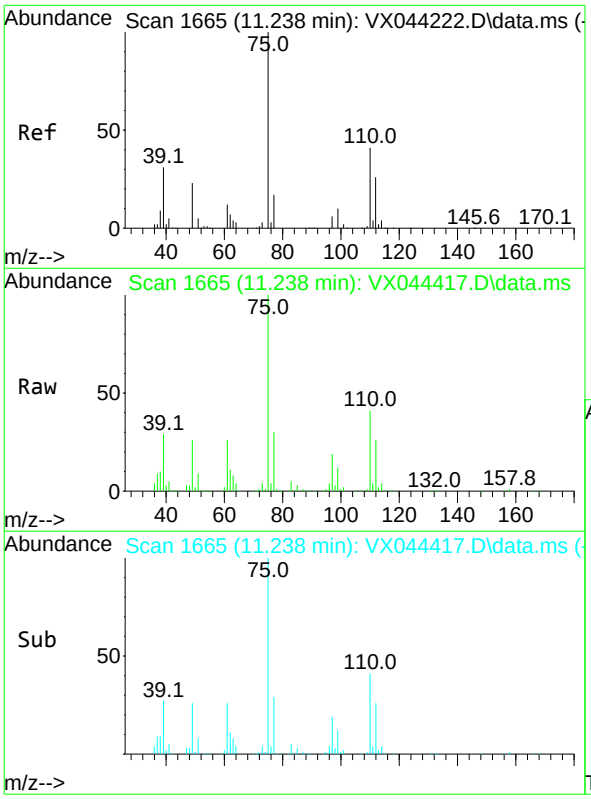
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	65.1	32.5	97.4

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

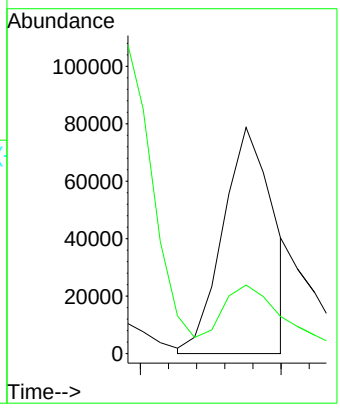


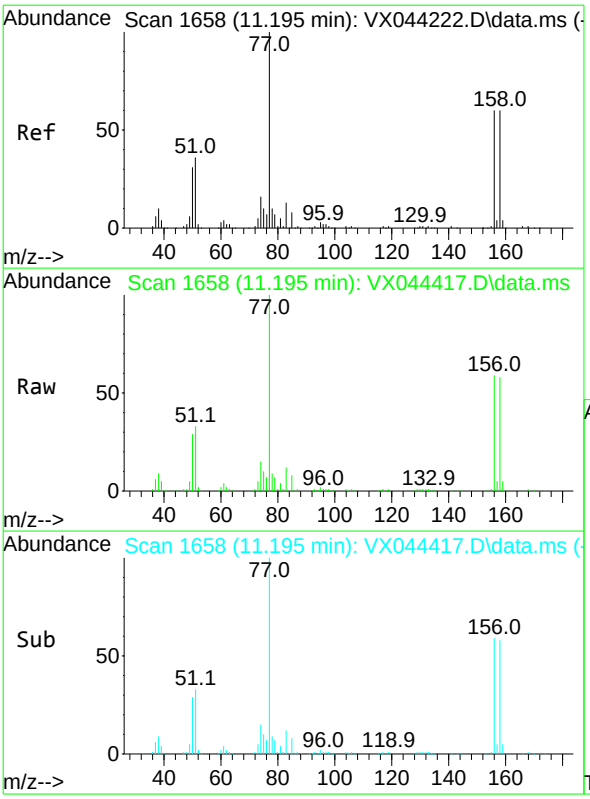


#76
1,2,3-Trichloropropane
Concen: 48.960 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 75 Resp: 97575

Ion	Ratio	Lower	Upper
75	100		
77	39.6	20.9	62.7





#77
Bromobenzene
Concen: 51.358 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

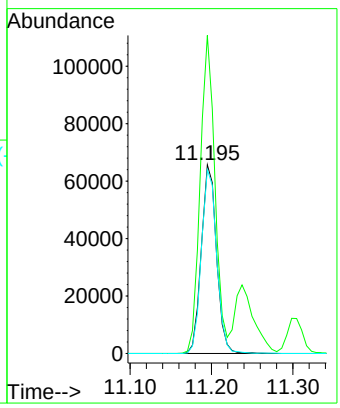
Tgt Ion:156 Resp: 85100

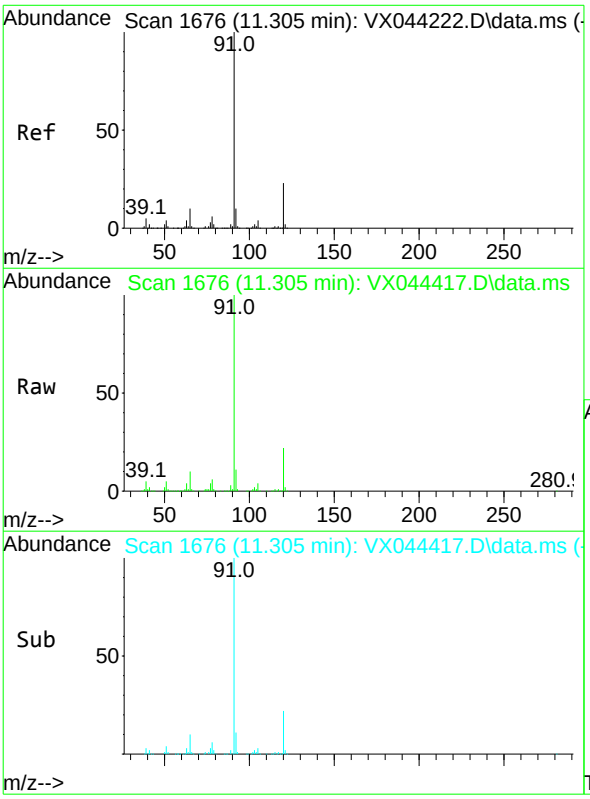
Ion	Ratio	Lower	Upper
156	100		
77	163.5	82.6	247.8
158	98.1	48.8	146.4

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

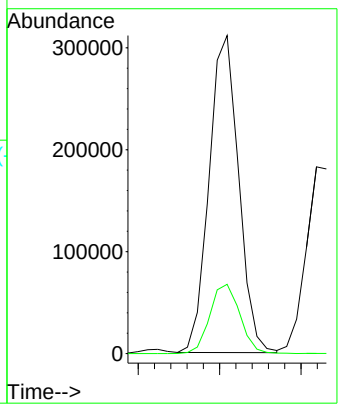


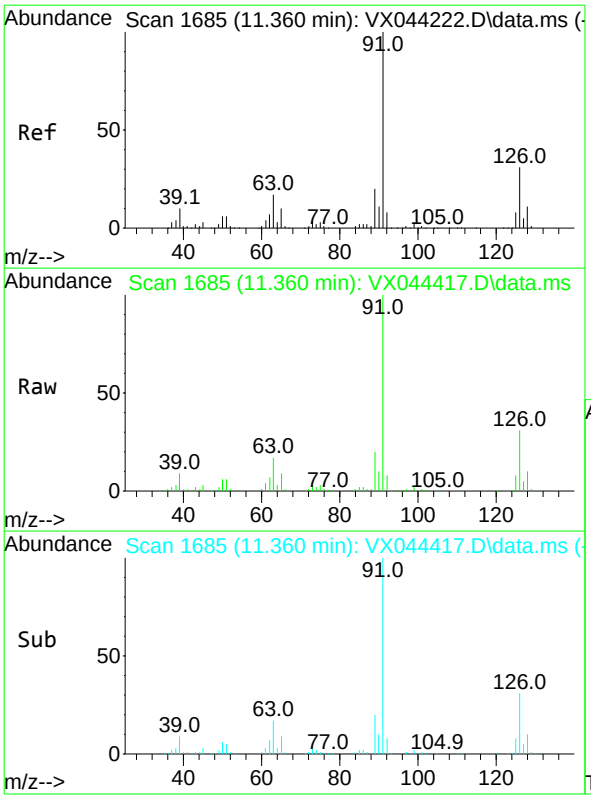


#78
n-propylbenzene
Concen: 52.064 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 91 Resp: 393213

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.0	33.0





#79
2-Chlorotoluene
Concen: 49.418 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

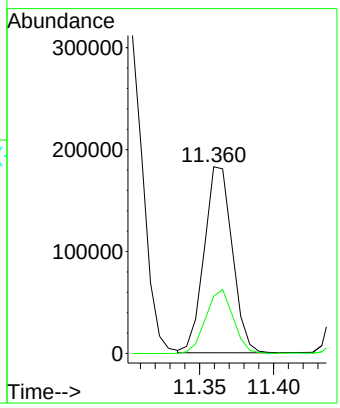
Tgt Ion: 91 Resp: 241377

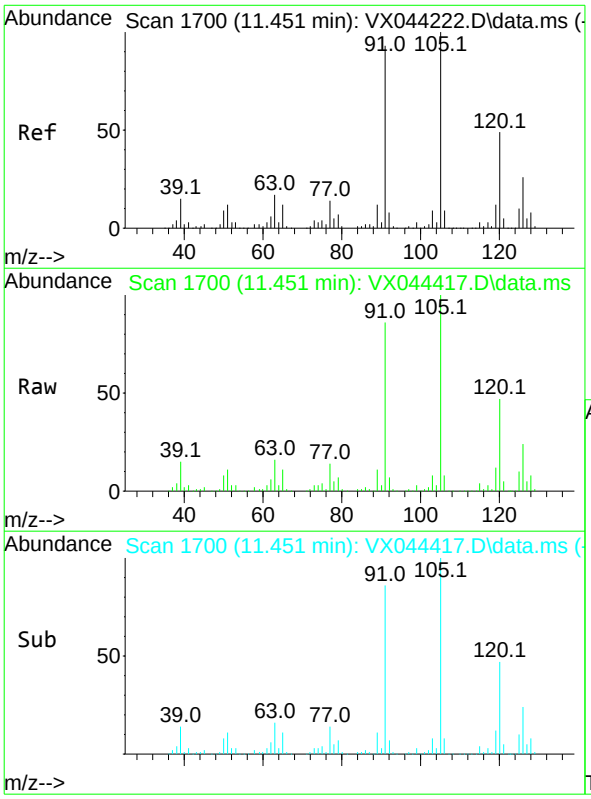
Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.4	49.1

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

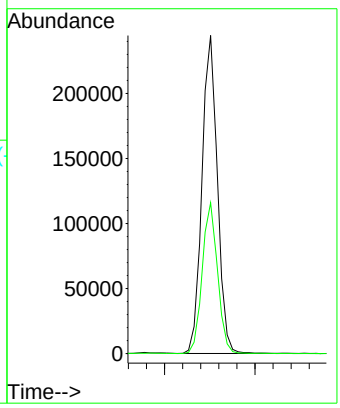


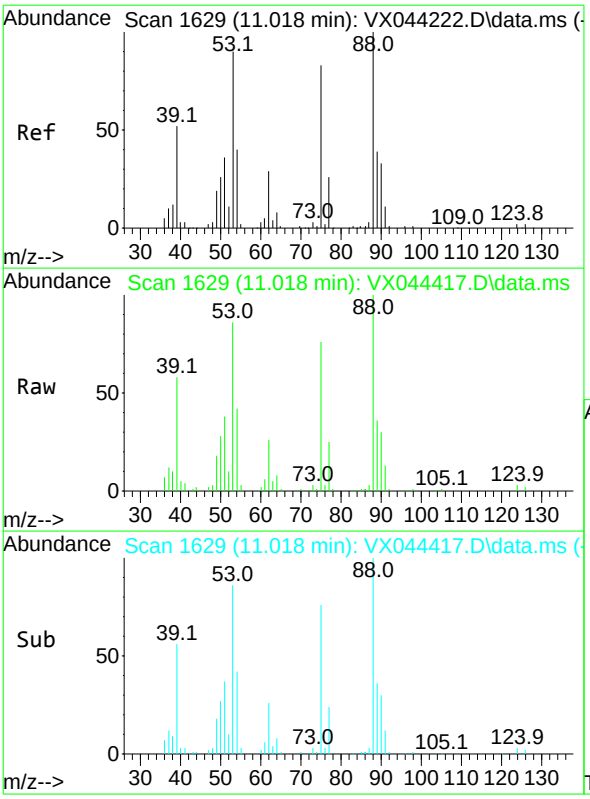


#80
1,3,5-Trimethylbenzene
Concen: 51.181 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:105 Resp: 290026

Ion	Ratio	Lower	Upper
105	100		
120	47.0	23.8	71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 37.797 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

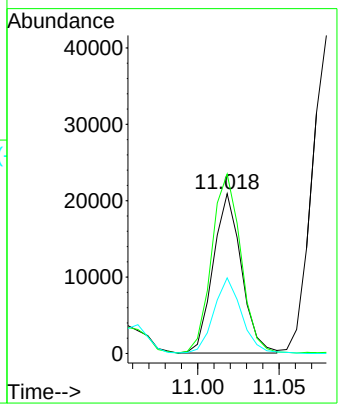
Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

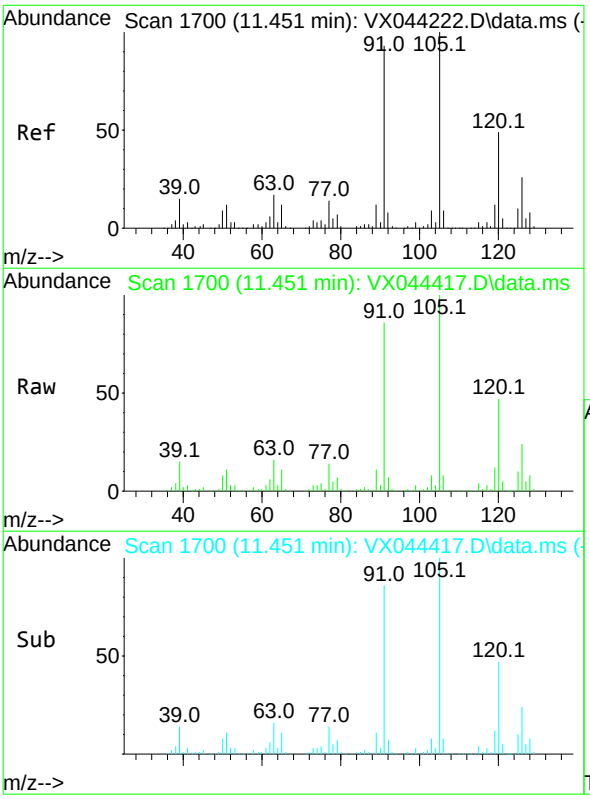
Tgt Ion: 75 Resp: 25222

Ion	Ratio	Lower	Upper
75	100		
53	116.0	93.6	140.4
89	47.0	37.3	55.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

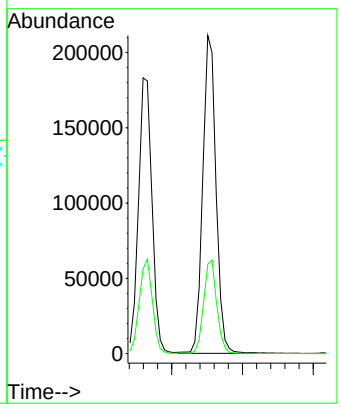


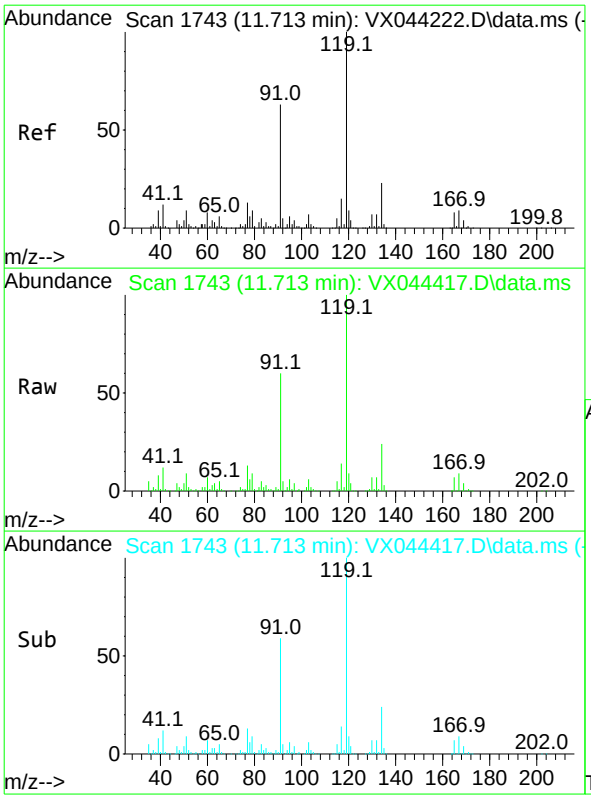


#82
4-Chlorotoluene
Concen: 50.851 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 91 Resp: 275039

Ion	Ratio	Lower	Upper
91	100		
126	29.4	14.5	43.5





#83
tert-Butylbenzene
Concen: 52.357 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

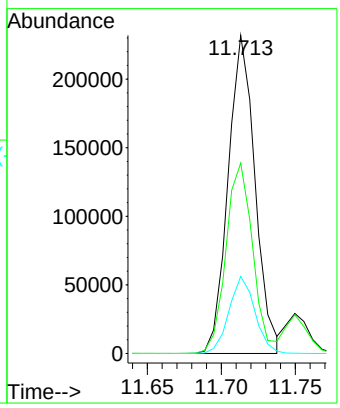
Tgt Ion:119 Resp: 293206

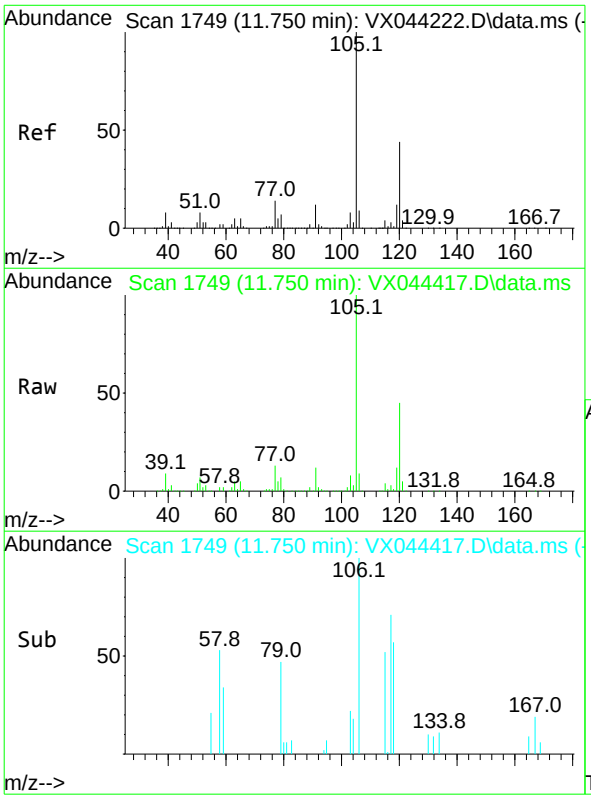
Ion	Ratio	Lower	Upper
119	100		
91	59.7	30.9	92.5
134	23.4	11.5	34.4

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

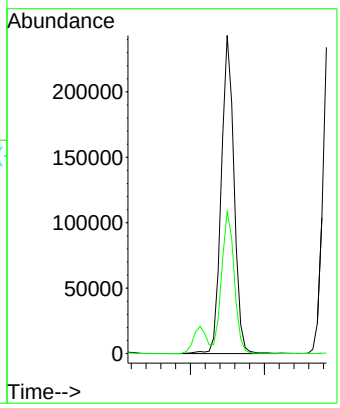


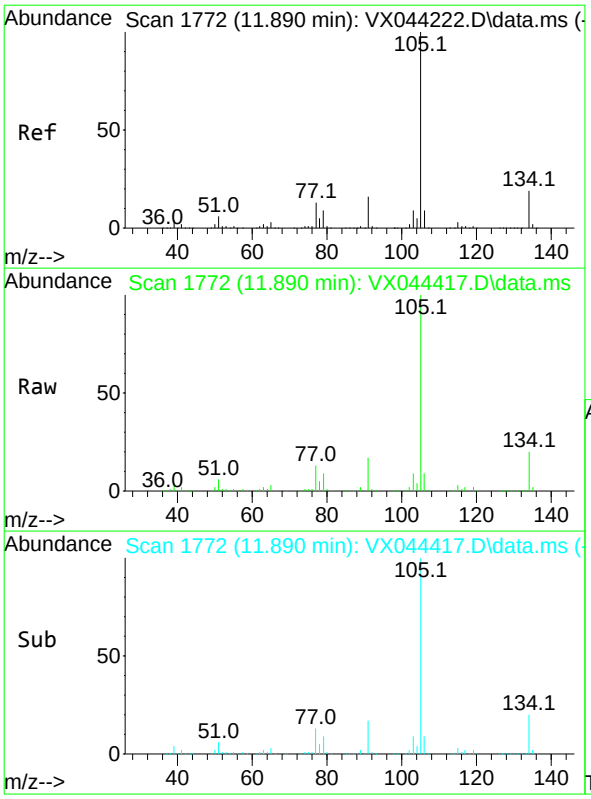


#84
1,2,4-Trimethylbenzene
Concen: 52.275 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:105 Resp: 290913

Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.7	65.1





#85
sec-Butylbenzene
Concen: 51.163 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

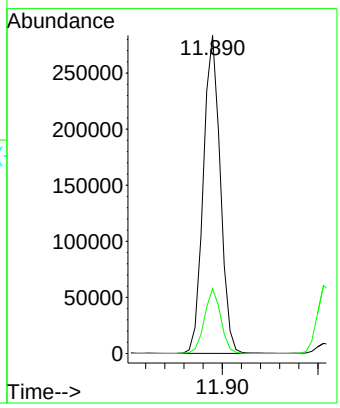
Tgt Ion:105 Resp: 347835

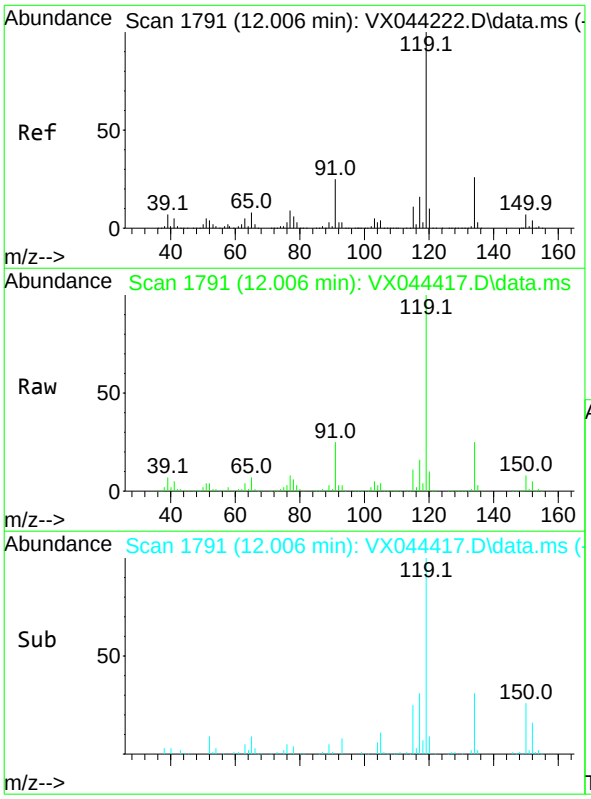
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

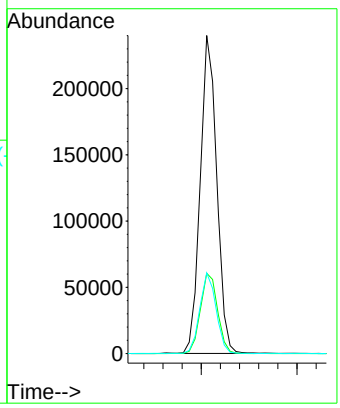


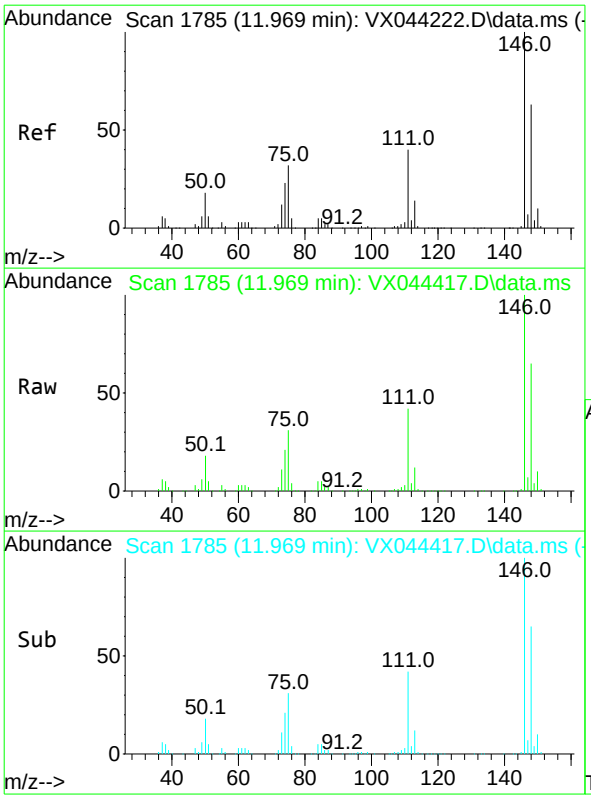


#86
p-Isopropyltoluene
Concen: 50.779 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:119 Resp: 287333

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.8	38.4
91	25.0	13.0	39.0





#87
1,3-Dichlorobenzene
Concen: 52.313 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

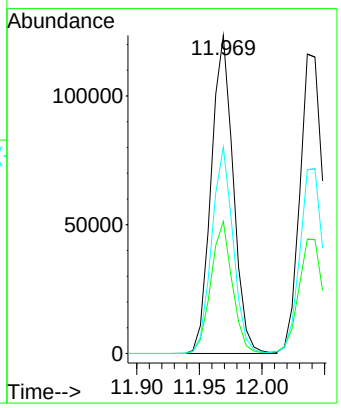
Tgt Ion:146 Resp: 151413

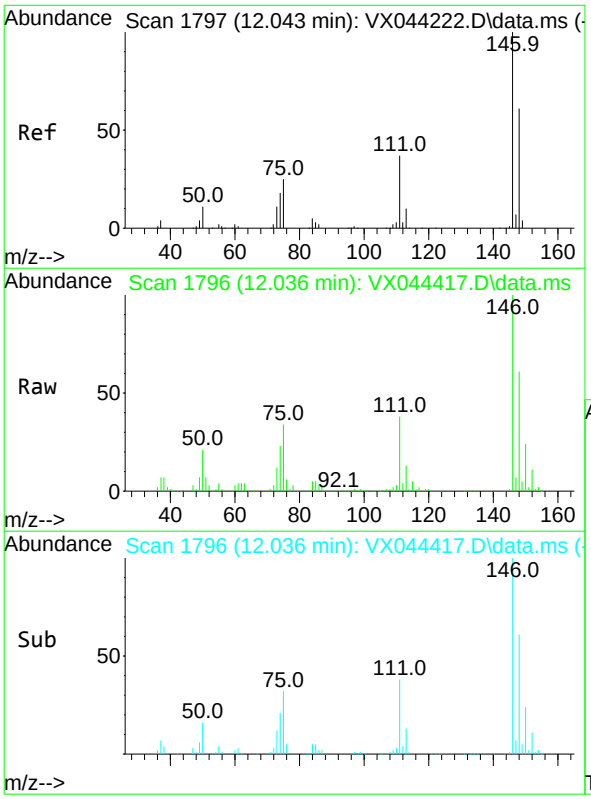
Ion	Ratio	Lower	Upper
146	100		
111	40.3	21.4	64.2
148	62.9	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

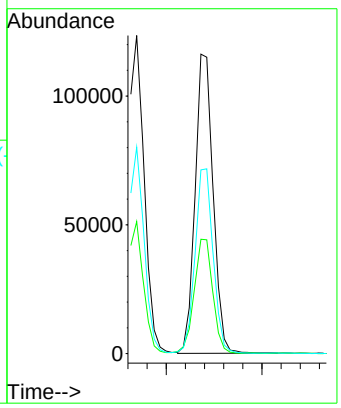


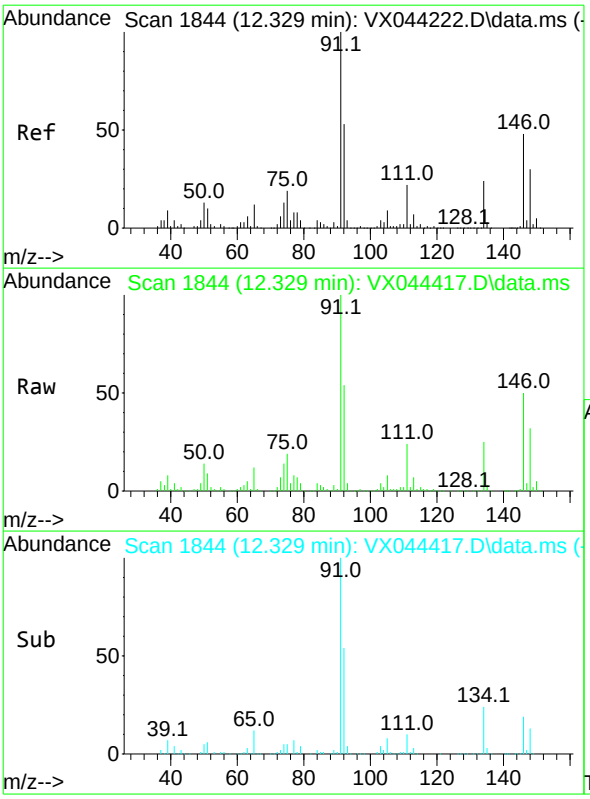


#88
1,4-Dichlorobenzene
Concen: 50.911 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:146 Resp: 151478

Ion	Ratio	Lower	Upper
146	100		
111	39.4	21.0	63.0
148	62.1	32.3	96.8





#89
n-Butylbenzene
Concen: 50.400 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

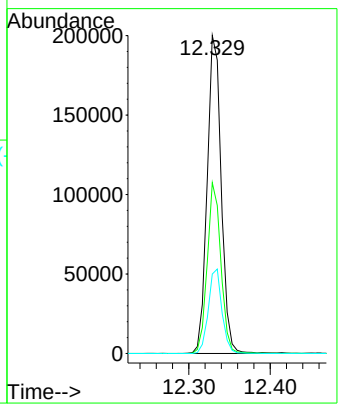
Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

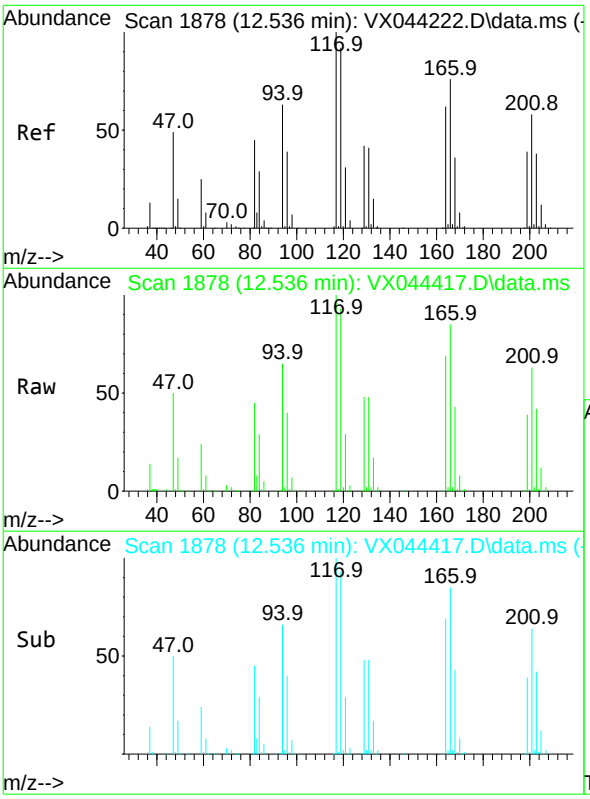
Tgt Ion: 91 Resp: 239808

Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.6	79.7
134	25.7	12.6	37.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

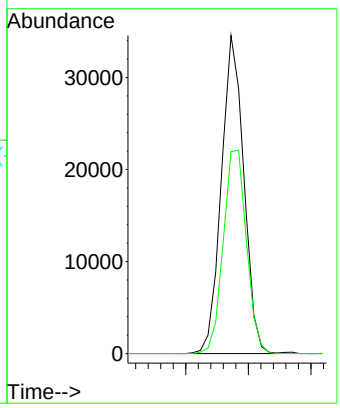


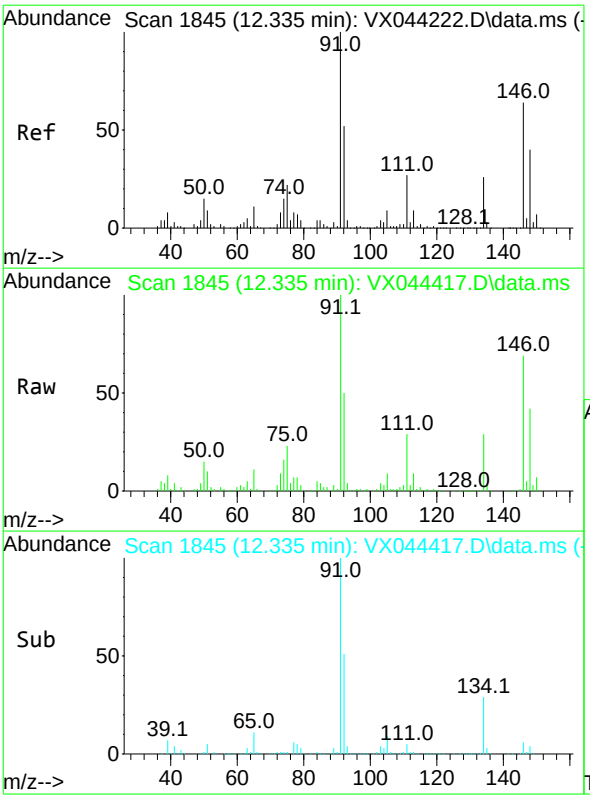


#90
Hexachloroethane
Concen: 52.138 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:117 Resp: 43066

Ion	Ratio	Lower	Upper
117	100		
201	66.2	31.4	94.2

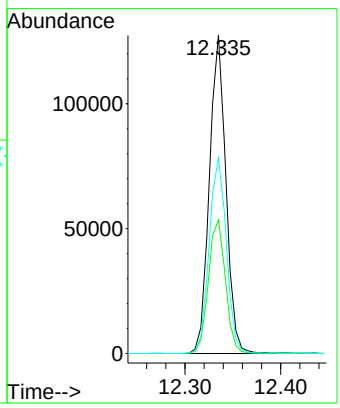




#91
1,2-Dichlorobenzene
Concen: 50.871 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:146 Resp: 152884

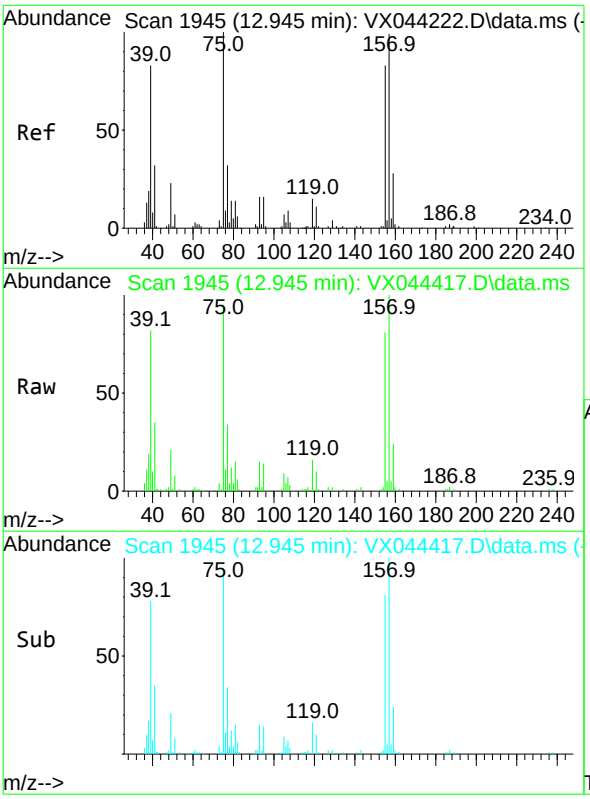
Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.4	64.3
148	64.3	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

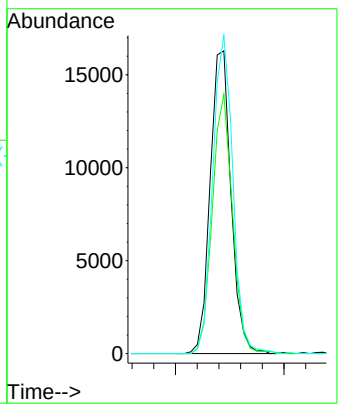
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

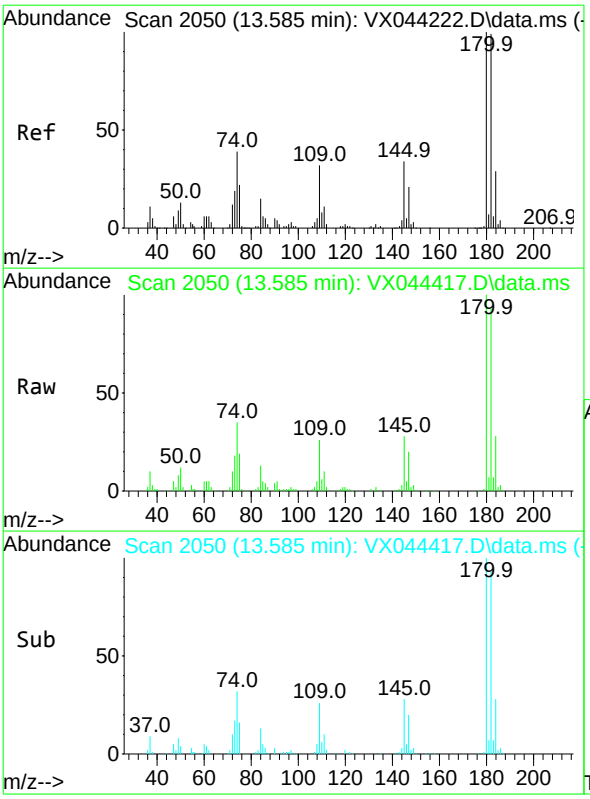


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.254 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion: 75 Resp: 21771

Ion	Ratio	Lower	Upper
75	100		
155	82.8	38.1	114.3
157	101.3	47.2	141.6





#93
1,2,4-Trichlorobenzene
Concen: 52.132 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

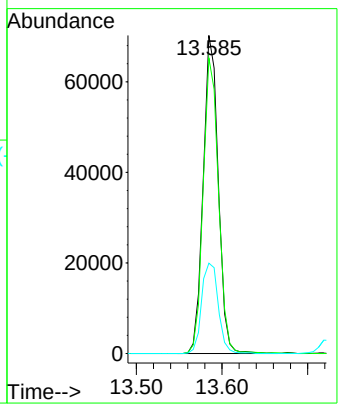
Tgt Ion:180 Resp: 85895

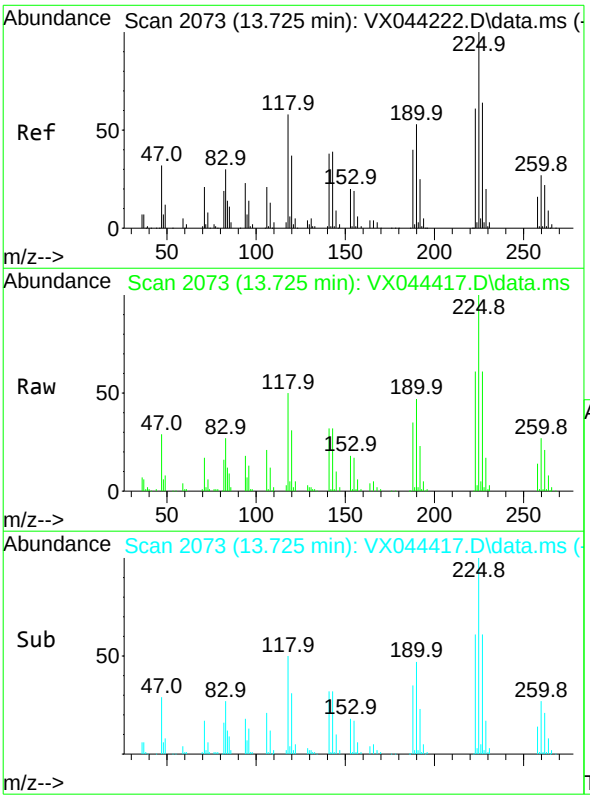
Ion	Ratio	Lower	Upper
180	100		
182	94.4	48.0	144.2
145	31.3	16.6	49.7

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

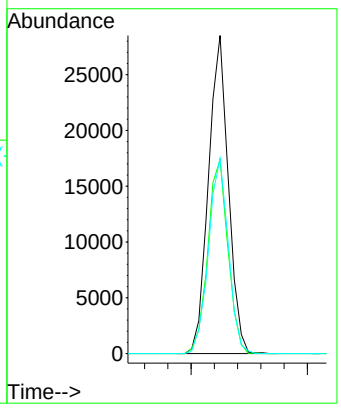


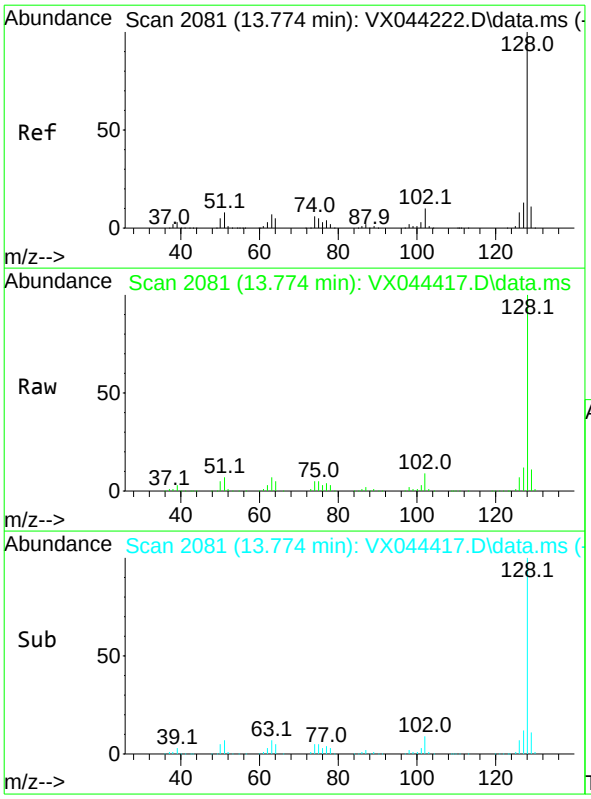


#94
Hexachlorobutadiene
Concen: 51.014 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:225 Resp: 33809

Ion	Ratio	Lower	Upper
225	100		
223	61.9	30.8	92.4
227	61.0	32.1	96.3





#95
Naphthalene
Concen: 48.567 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

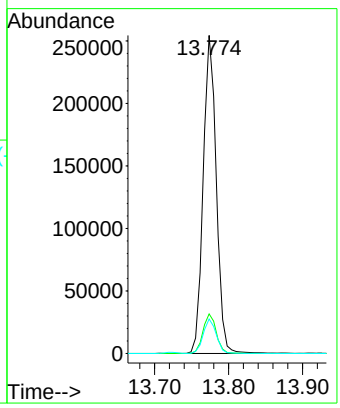
Tgt Ion:128 Resp: 312358

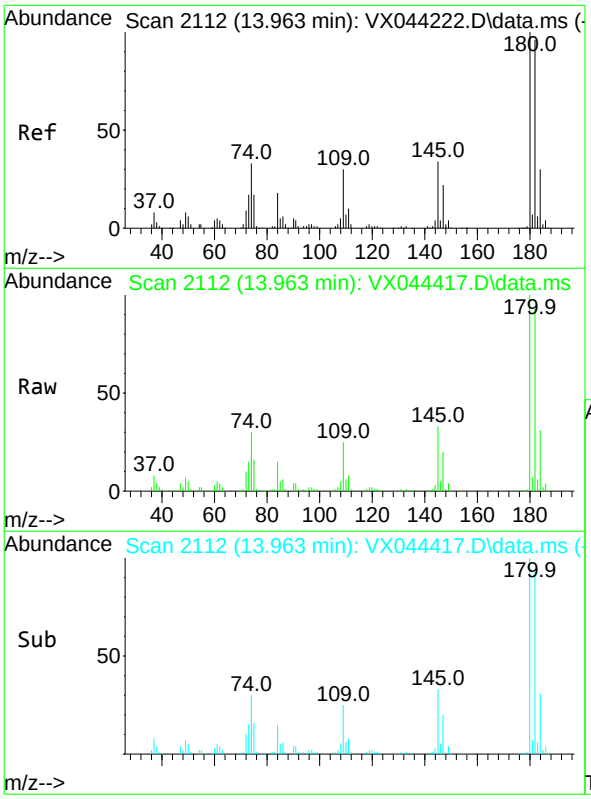
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.5	15.7
129	10.8	9.0	13.4

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

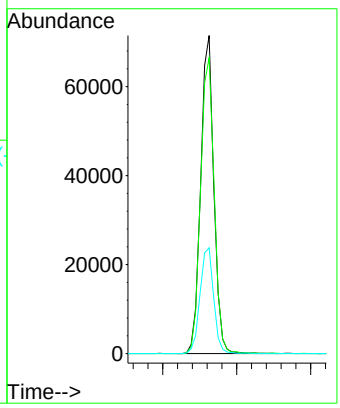




#96
1,2,3-Trichlorobenzene
Concen: 50.422 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28

Tgt Ion:180 Resp: 88117

Ion	Ratio	Lower	Upper
180	100		
182	96.6	48.0	144.0
145	34.7	17.7	53.1



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D5-20241217MSD	SDG No.:	P5317
Lab Sample ID:	P5317-20MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044418.D	1		12/19/24 06:51	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	52.5		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	52.8		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	52.7		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	51.1		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	50.0		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	46.5		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	57.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	57.1		0.26	0.75	1.00	ug/L
67-64-1	Acetone	230		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	54.9		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	50.3		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	42.4		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	52.3		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	54.5		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	53.6		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	51.8		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	250		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	52.3		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	53.6		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	48.3		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	51.3		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	51.5		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	49.2		0.19	0.50	1.00	ug/L
71-43-2	Benzene	53.4		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	50.5		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	190	E	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	51.7		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	53.9		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	260		0.75	2.50	5.00	ug/L
108-88-3	Toluene	52.9		0.18	0.50	1.00	ug/L

Raw Data: **VX044418.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D5-20241217MSD	SDG No.:	P5317
Lab Sample ID:	P5317-20MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044418.D	1		12/19/24 06:51	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	46.0		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	49.9		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	54.8		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	260		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	50.9		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	54.7		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	49.8		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	51.2		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	51.4		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	52.4		0.14	0.50	1.00	ug/L
100-42-5	Styrene	54.0		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	50.9		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	50.3		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.9		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	51.9		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	50.9		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	50.8		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	49.7		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	51.6		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	52.1		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.1		81 - 118		98%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	52.5		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		85 - 114		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	117000	5.55				
540-36-3	1,4-Difluorobenzene	213000	6.757				
3114-55-4	Chlorobenzene-d5	188000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	88700	12.024				

Raw Data: **VX044418.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/17/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/17/24
Client Sample ID:	RE132D5-20241217MSD	SDG No.:	P5317
Lab Sample ID:	P5317-20MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044418.D	1		12/19/24 06:51	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX044418.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044418.D
Acq On : 19 Dec 2024 06:51
Operator : JC/MD
Sample : P5317-20MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Dec 19 07:43:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	116949	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	212543	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	188325	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	88743	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	100683	49.102	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.200%			
35) Dibromofluoromethane	5.379	113	77439	52.606	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.220%			
50) Toluene-d8	8.647	98	260771	52.508	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.020%			
62) 4-Bromofluorobenzene	11.079	95	92575	53.347	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	94910	52.485	ug/l	95
3) Chloromethane	1.294	50	91353	52.828	ug/l	99
4) Vinyl Chloride	1.374	62	94923	52.690	ug/l	99
5) Bromomethane	1.593	94	65294	51.087	ug/l	99
6) Chloroethane	1.660	64	56136	50.041	ug/l	98
7) Trichlorofluoromethane	1.861	101	164127	46.536	ug/l	97
8) Diethyl Ether	2.136	74	58021	48.195	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.312	101	82128	57.547	ug/l	98
10) Methyl Iodide	2.440	142	103771	55.170	ug/l	96
11) Tert butyl alcohol	2.995	59	68303	236.352	ug/l	98
12) 1,1-Dichloroethene	2.306	96	74788	57.053	ug/l	94
13) Acrolein	2.239	56	103223	246.755	ug/l	100
14) Allyl chloride	2.654	41	109683	50.235	ug/l	97
15) Acrylonitrile	3.068	53	207951	259.773	ug/l	99
16) Acetone	2.392	43	188359	225.321	ug/l	95
17) Carbon Disulfide	2.501	76	136752	54.881	ug/l	98
18) Methyl Acetate	2.709	43	91330	42.373	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	257121	50.264	ug/l	97
20) Methylene Chloride	2.782	84	82193	52.348	ug/l	94
21) trans-1,2-Dichloroethene	3.081	96	75912	54.489	ug/l	96
22) Diisopropyl ether	3.763	45	246112	50.057	ug/l	97
23) Vinyl Acetate	3.721	43	882527	220.784	ug/l	99
24) 1,1-Dichloroethane	3.605	63	146892	53.598	ug/l	99
25) 2-Butanone	4.562	43	295478	248.629	ug/l	99
26) 2,2-Dichloropropane	4.465	77	64400	28.925	ug/l	93
27) cis-1,2-Dichloroethene	4.483	96	94786	53.571	ug/l	90
28) Bromochloromethane	4.891	49	64892	48.286	ug/l	98
29) Tetrahydrofuran	5.013	42	190066	249.164	ug/l	99
30) Chloroform	5.092	83	158091	51.341	ug/l	97
31) Cyclohexane	5.458	56	114705	51.830	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	131697	51.524	ug/l	99
36) 1,1-Dichloropropene	5.684	75	95317	50.092	ug/l	99
37) Ethyl Acetate	4.721	43	98162	41.733	ug/l	98
38) Carbon Tetrachloride	5.665	117	107044	52.253	ug/l	97
39) Methylcyclohexane	7.373	83	111938	49.208	ug/l	99
40) Benzene	6.031	78	308489	53.397	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044418.D
Acq On : 19 Dec 2024 06:51
Operator : JC/MD
Sample : P5317-20MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Dec 19 07:43:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	61093	48.914	ug/l		97
42) 1,2-Dichloroethane	6.080	62	120186	50.501	ug/l		99
43) Isopropyl Acetate	6.342	43	168928	45.950	ug/l		98
44) Trichloroethene	7.123	130	267679	185.797	ug/l		100
45) 1,2-Dichloropropane	7.427	63	76356	51.732	ug/l		98
46) Dibromomethane	7.580	93	59613	52.060	ug/l		94
47) Bromodichloromethane	7.818	83	106514	53.860	ug/l		99
48) Methyl methacrylate	7.696	41	89170	49.967	ug/l		97
49) 1,4-Dioxane	7.665	88	36595	1236.819	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	612508	259.119	ug/l		99
52) Toluene	8.714	92	192052	52.936	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	97126	46.021	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	107458	49.904	ug/l		96
55) 1,1,2-Trichloroethane	9.153	97	78981	54.799	ug/l		97
56) Ethyl methacrylate	9.116	69	121540	53.416	ug/l		96
57) 1,3-Dichloropropane	9.305	76	132816	52.942	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.171	63	315	0.274	ug/l	#	46
59) 2-Hexanone	9.433	43	449879	262.936	ug/l		97
60) Dibromochloromethane	9.518	129	77763	50.885	ug/l		98
61) 1,2-Dibromoethane	9.610	107	80264	54.710	ug/l		96
64) Tetrachloroethene	9.269	164	62279	49.825	ug/l		99
65) Chlorobenzene	10.079	112	206411	51.150	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	69756	53.786	ug/l		98
67) Ethyl Benzene	10.189	91	358045	51.351	ug/l		98
68) m/p-Xylenes	10.299	106	272658	106.570	ug/l		96
69) o-Xylene	10.640	106	135601	52.382	ug/l		96
70) Styrene	10.652	104	223981	53.973	ug/l		96
71) Bromoform	10.799	173	46268	50.932	ug/l	#	98
73) Isopropylbenzene	10.963	105	341745	50.304	ug/l		100
74) N-amyl acetate	10.841	43	132925	42.337	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	120063	50.882	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	97718m	49.317	ug/l		
77) Bromobenzene	11.195	156	85185	51.708	ug/l		97
78) n-propylbenzene	11.305	91	384780	51.244	ug/l		99
79) 2-Chlorotoluene	11.366	91	240255	49.475	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	283162	50.261	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	25426	38.247	ug/l		99
82) 4-Chlorotoluene	11.451	91	268894	50.004	ug/l		100
83) tert-Butylbenzene	11.713	119	288730	51.857	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	285385	51.580	ug/l		100
85) sec-Butylbenzene	11.890	105	342783	50.713	ug/l		99
86) p-Isopropyltoluene	12.006	119	281058	49.959	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	149233	51.859	ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	150438	50.855	ug/l		98
89) n-Butylbenzene	12.329	91	230593	48.745	ug/l		100
90) Hexachloroethane	12.536	117	43707	53.222	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	151871	50.827	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	22785	49.742	ug/l		95
93) 1,2,4-Trichlorobenzene	13.585	180	84448	51.552	ug/l		99
94) Hexachlorobutadiene	13.725	225	33362	50.632	ug/l		96
95) Naphthalene	13.774	128	319471	49.962	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	90592	52.140	ug/l		97

Sample Results: **VX044418.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044418.D
Acq On : 19 Dec 2024 06:51
Operator : JC/MD
Sample : P5317-20MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 50 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 07:43:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VX044418.D**

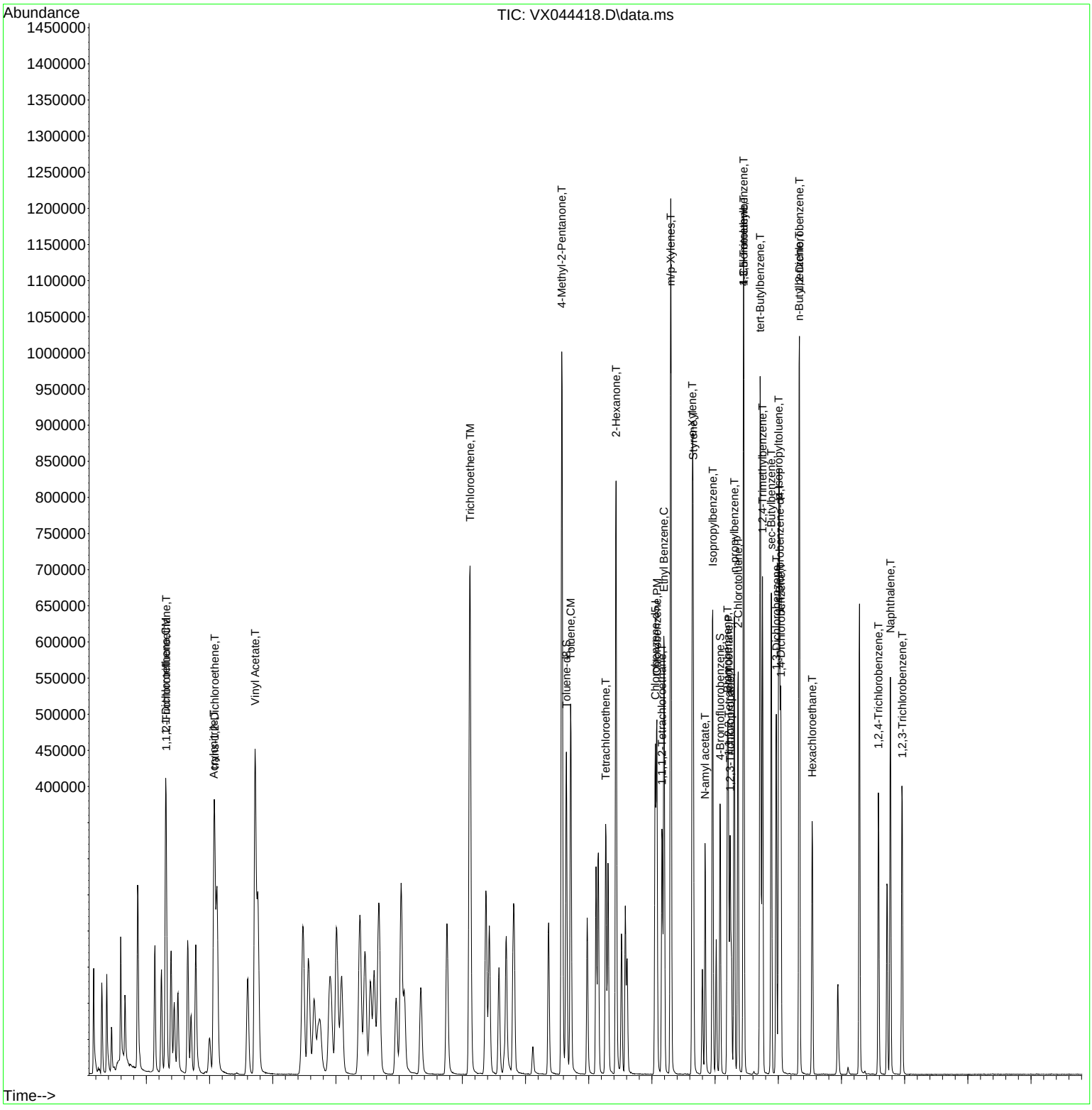
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044418.D
Acq On : 19 Dec 2024 06:51
Operator : JC/MD
Sample : P5317-20MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 50 Sample Multiplier: 1

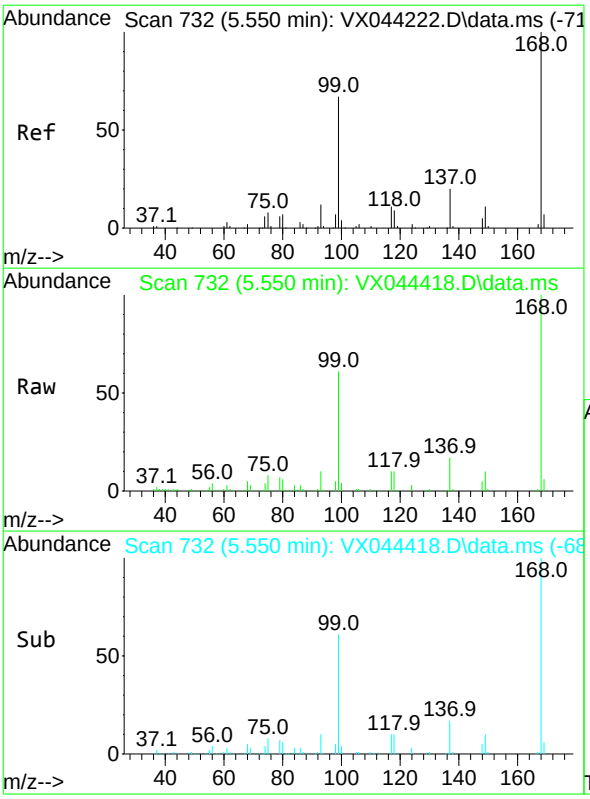
Quant Time: Dec 19 07:43:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

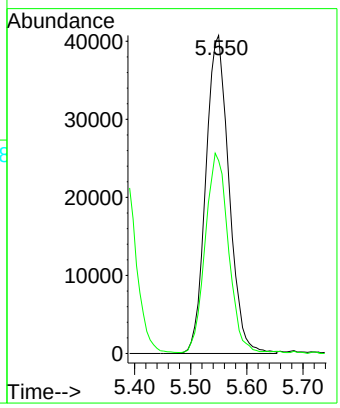
Tgt Ion:168 Resp: 116949

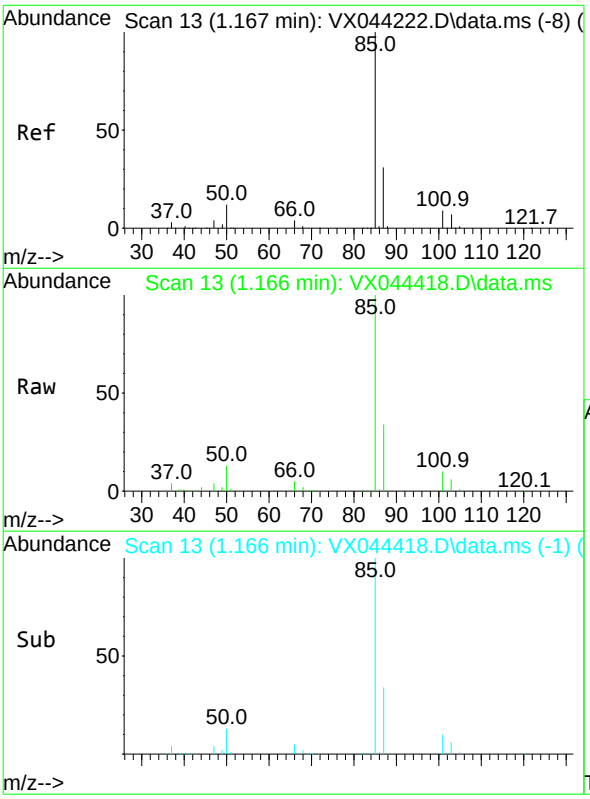
Ion	Ratio	Lower	Upper
168	100		
99	60.3	53.4	80.0

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

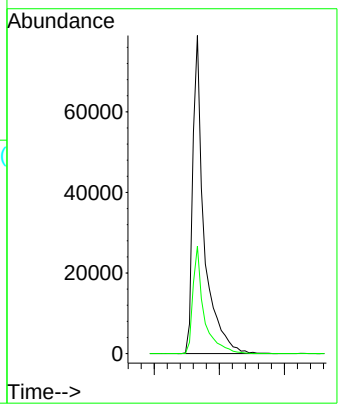


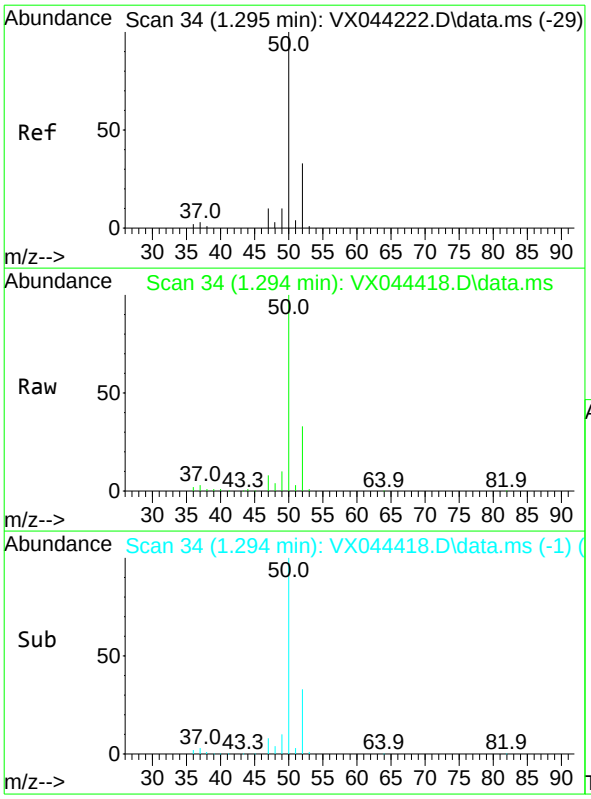


#2
Dichlorodifluoromethane
Concen: 52.485 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 85 Resp: 94910

Ion	Ratio	Lower	Upper
85	100		
87	33.7	15.4	46.4

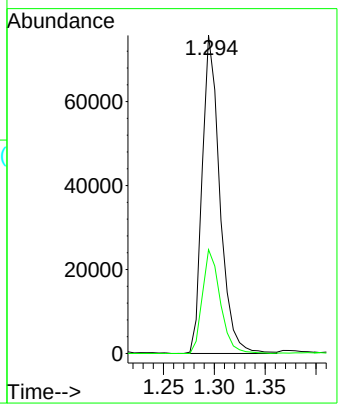




#3
Chloromethane
Concen: 52.828 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 50 Resp: 91353

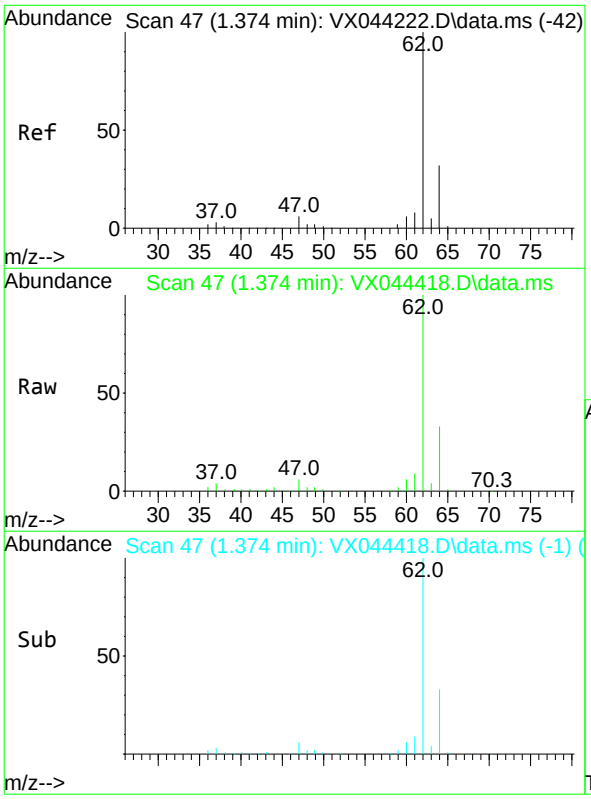
Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

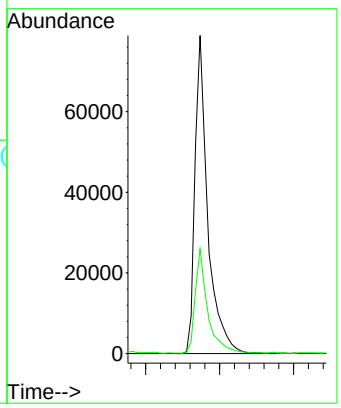
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

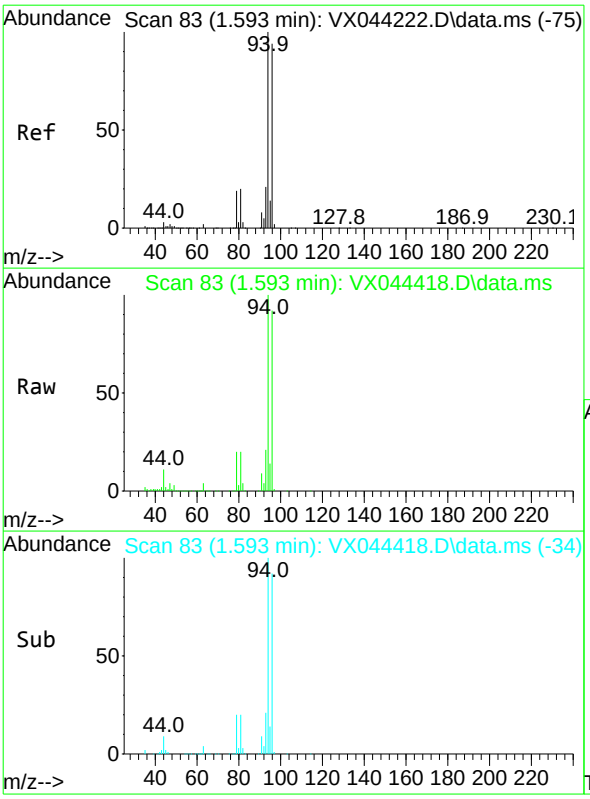


#4
Vinyl Chloride
Concen: 52.690 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 62 Resp: 94923

Ion	Ratio	Lower	Upper
62	100		
64	32.7	25.7	38.5

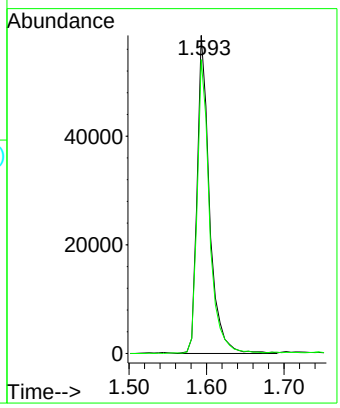




#5
Bromomethane
Concen: 51.087 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 94 Resp: 65294

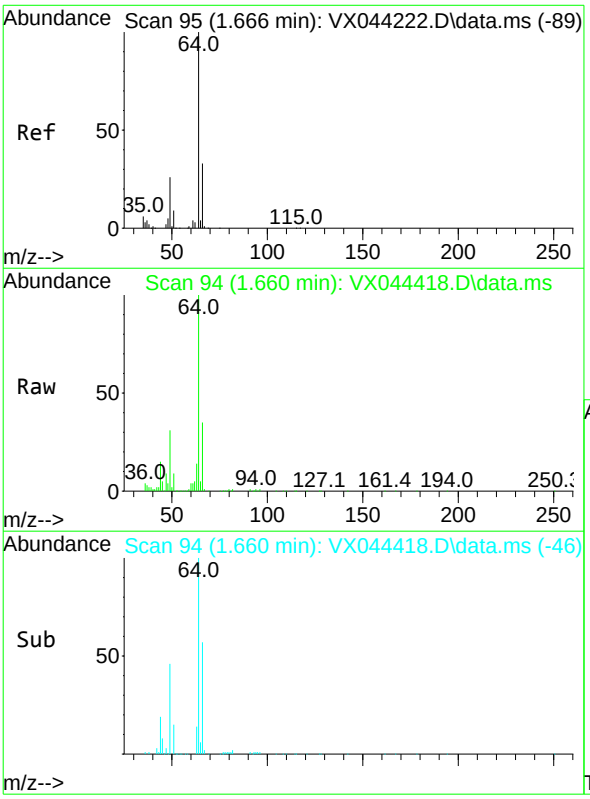
Ion	Ratio	Lower	Upper
94	100		
96	92.2	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

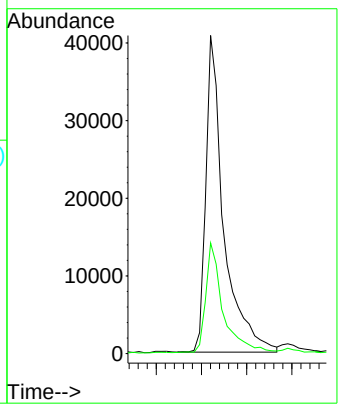
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

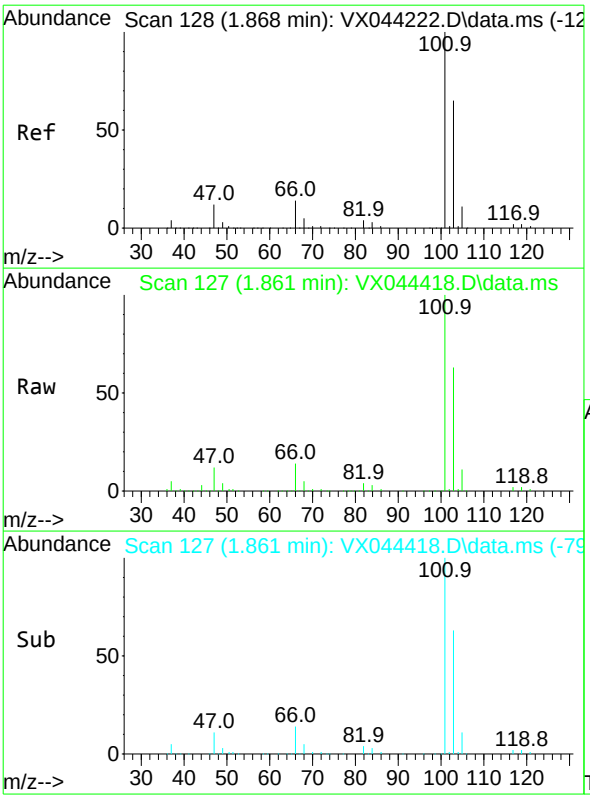


#6
Chloroethane
Concen: 50.041 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 64 Resp: 56136

Ion	Ratio	Lower	Upper
64	100		
66	34.6	26.6	39.8

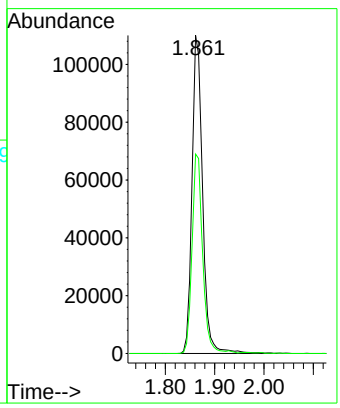




#7
Trichlorofluoromethane
Concen: 46.536 ug/l
RT: 1.861 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:101 Resp: 164127

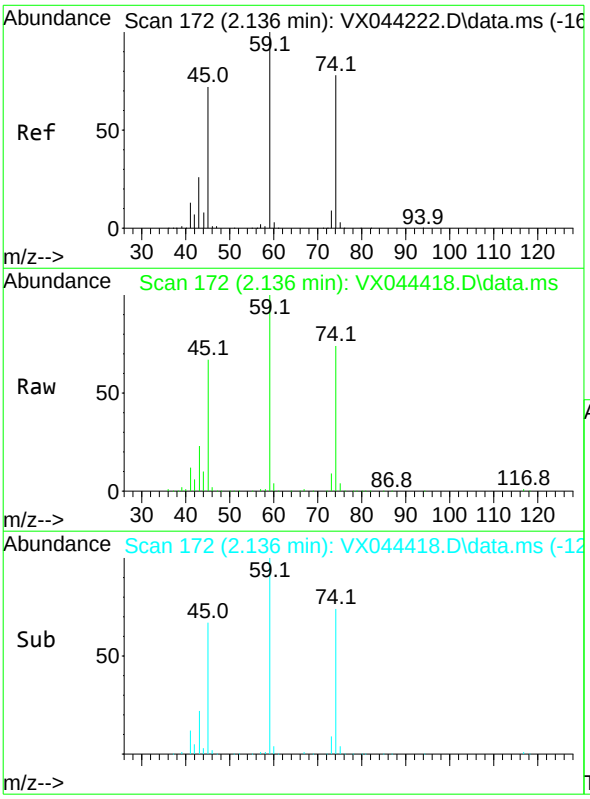
Ion	Ratio	Lower	Upper
101	100		
103	62.7	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

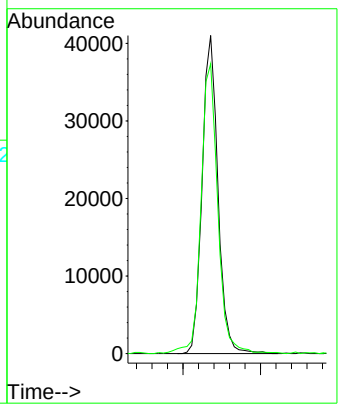
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

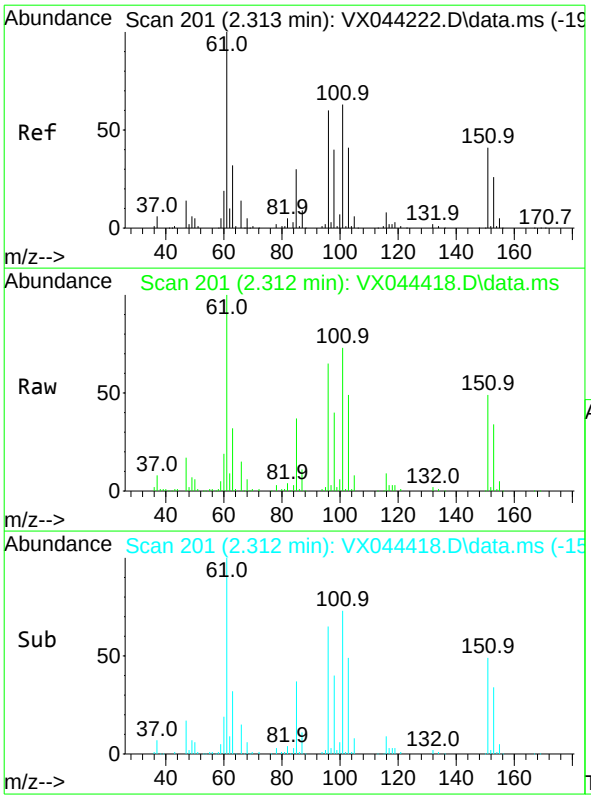


#8
Diethyl Ether
Concen: 48.195 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 74 Resp: 58021

Ion	Ratio	Lower	Upper
74	100		
45	96.7	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 57.547 ug/l
RT: 2.312 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

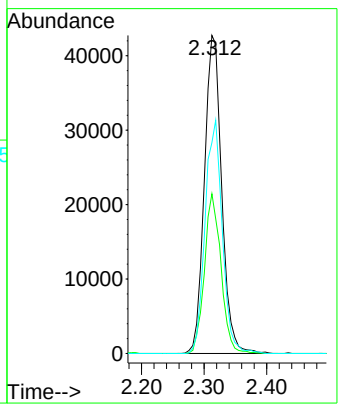
Tgt Ion:101 Resp: 82128

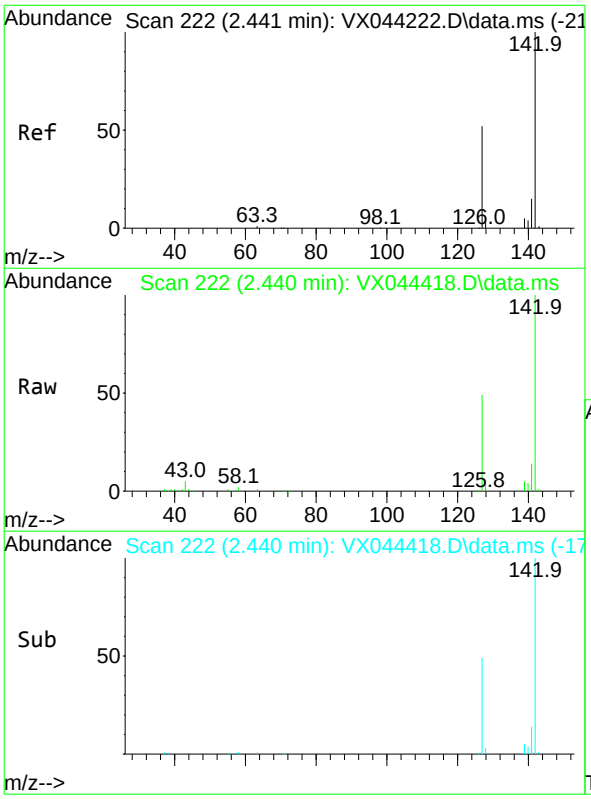
Ion	Ratio	Lower	Upper
101	100		
85	47.9	38.5	57.7
151	72.9	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

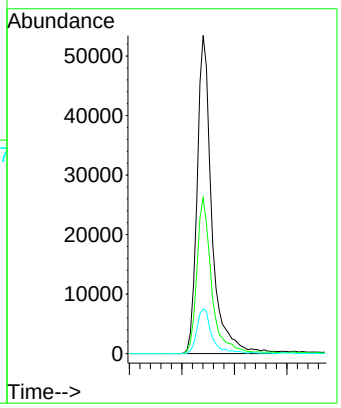


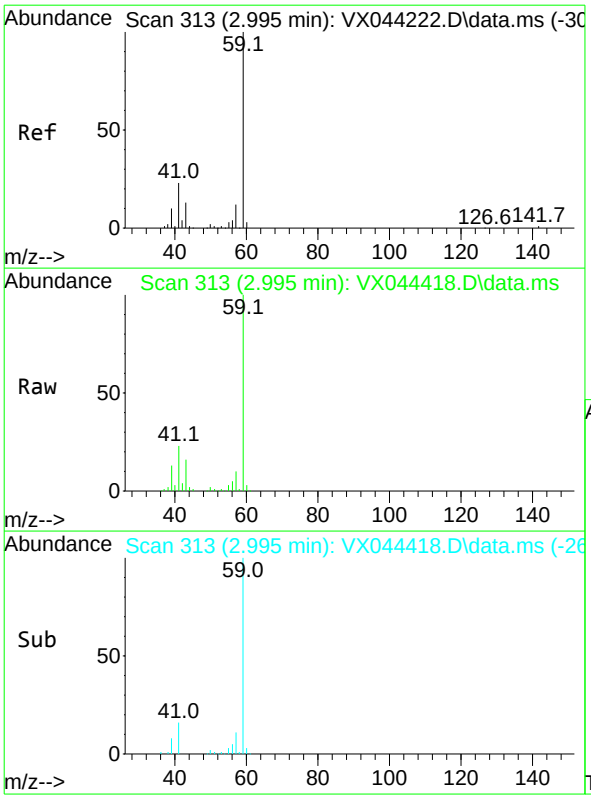


#10
Methyl Iodide
Concen: 55.170 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:142 Resp: 103771

Ion	Ratio	Lower	Upper
142	100		
127	49.1	41.8	62.8
141	14.3	11.5	17.3





#11
Tert butyl alcohol
Concen: 236.352 ug/l
RT: 2.995 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

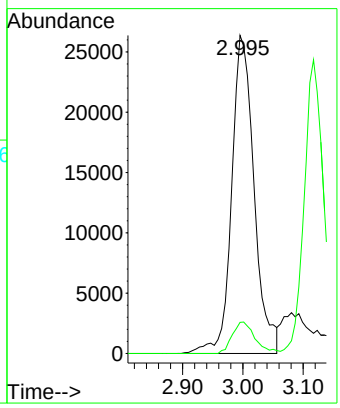
Tgt Ion: 59 Resp: 68303

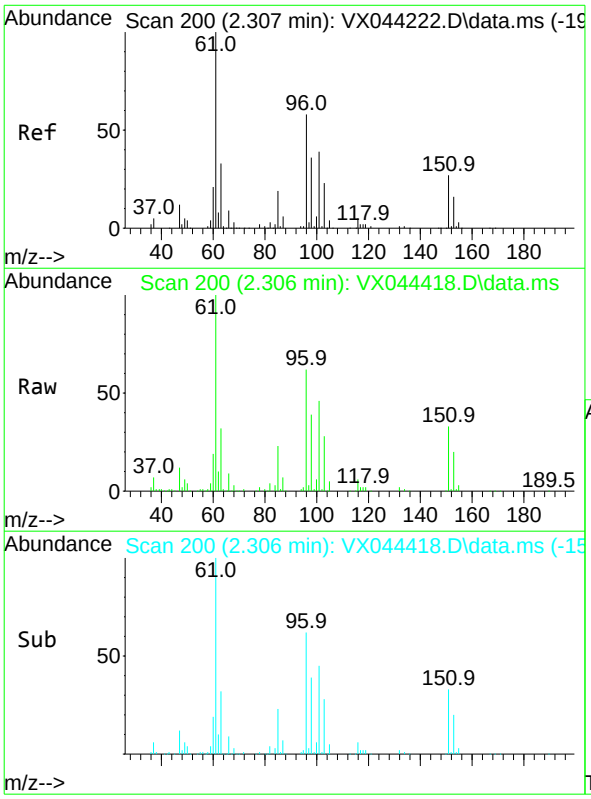
Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.8	13.2

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

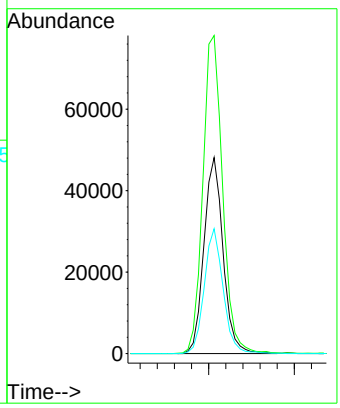


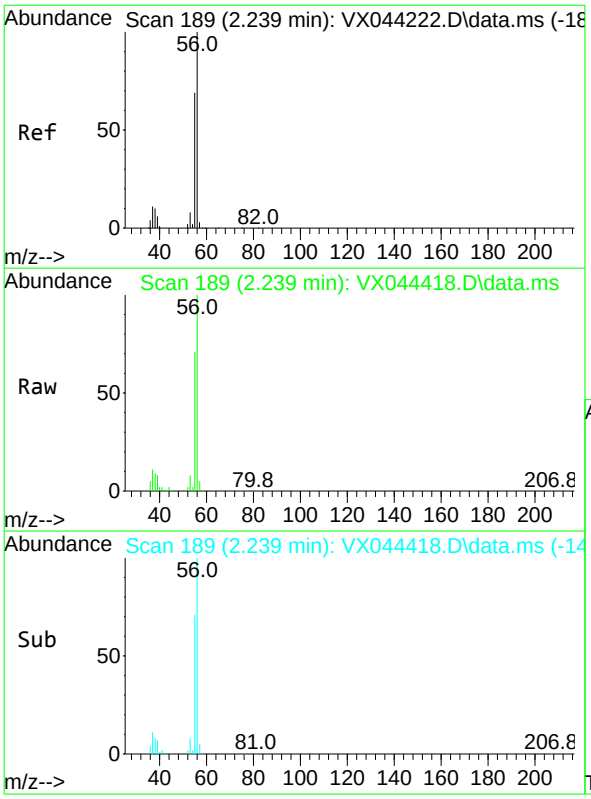


#12
1,1-Dichloroethene
Concen: 57.053 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 96 Resp: 74788

Ion	Ratio	Lower	Upper
96	100		
61	162.1	138.0	207.0
98	63.7	50.0	75.0

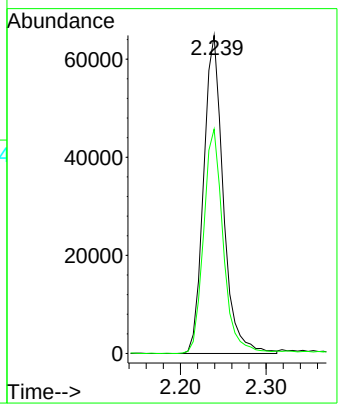




#13
Acrolein
Concen: 246.755 ug/l
RT: 2.239 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 56 Resp: 103223

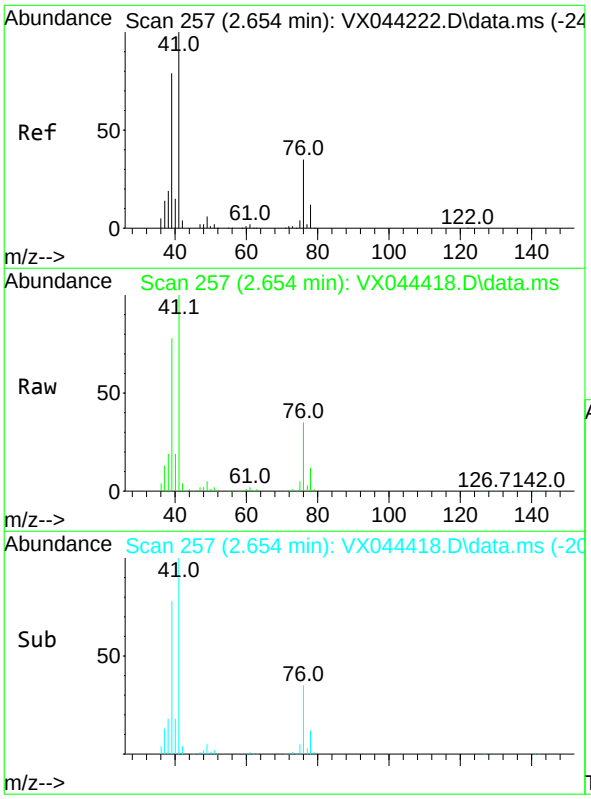
Ion	Ratio	Lower	Upper
56	100		
55	70.4	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

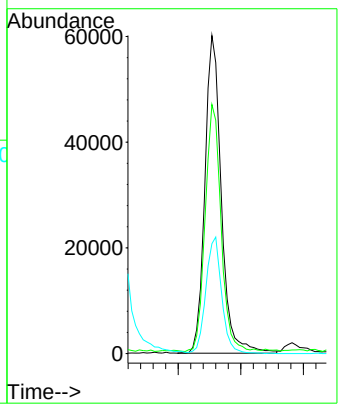
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

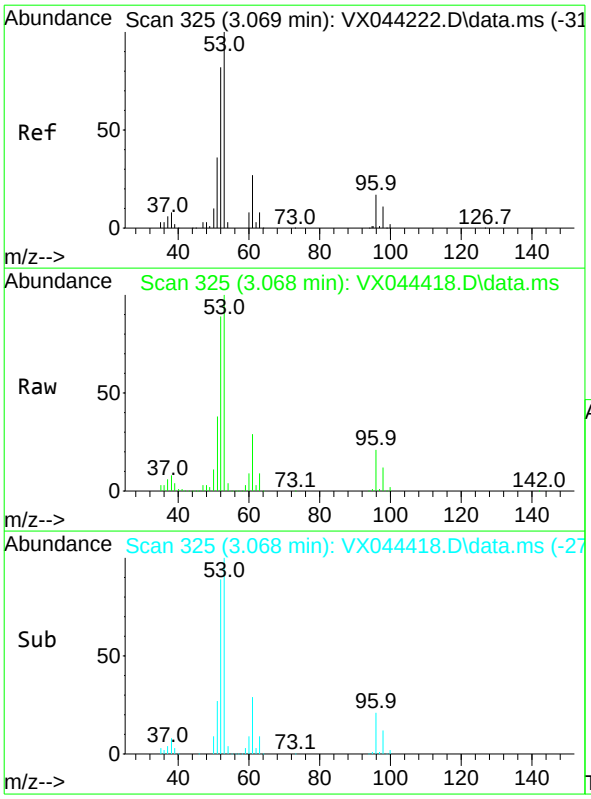


#14
Allyl chloride
Concen: 50.235 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 41 Resp: 109683

Ion	Ratio	Lower	Upper
41	100		
39	74.9	61.9	92.9
76	35.3	27.4	41.2

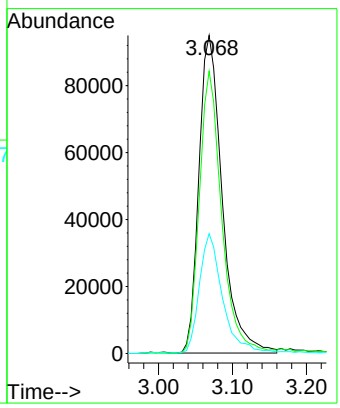




#15
Acrylonitrile
Concen: 259.773 ug/l
RT: 3.068 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 53 Resp: 207951

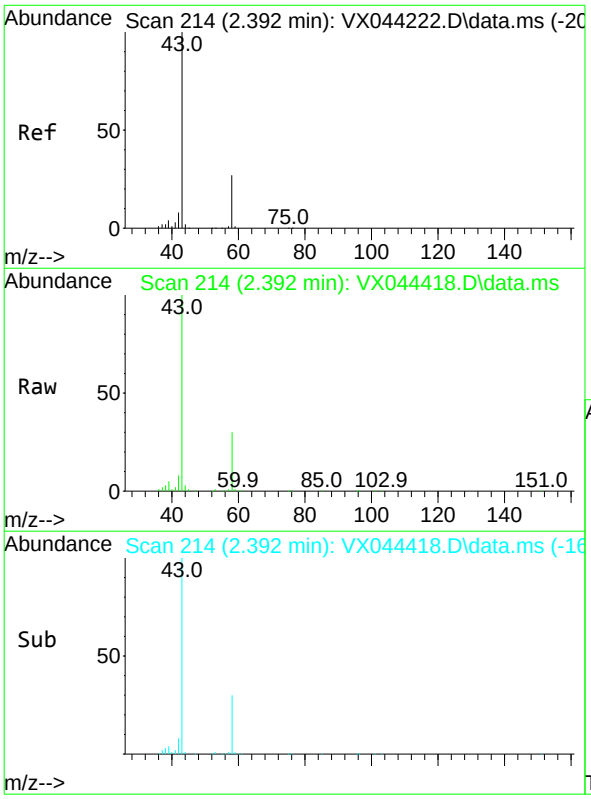
Ion	Ratio	Lower	Upper
53	100		
52	85.0	67.4	101.0
51	37.9	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

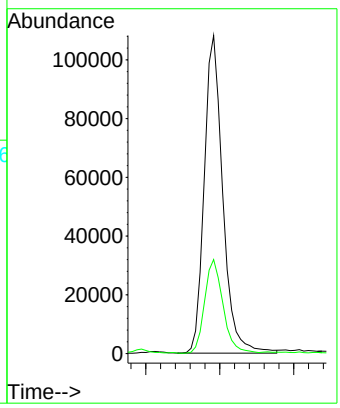
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

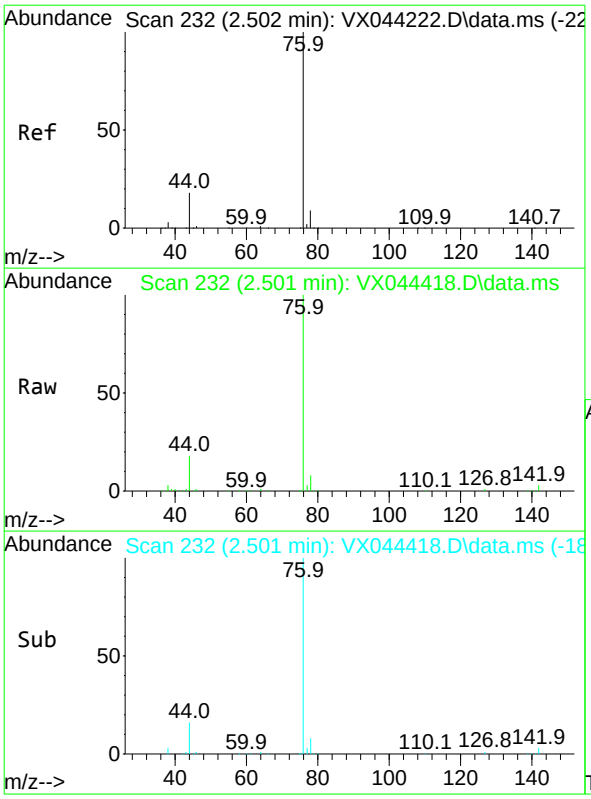


#16
Acetone
Concen: 225.321 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 43 Resp: 188359

Ion	Ratio	Lower	Upper
43	100		
58	29.5	21.6	32.4





#17
Carbon Disulfide
Concen: 54.881 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

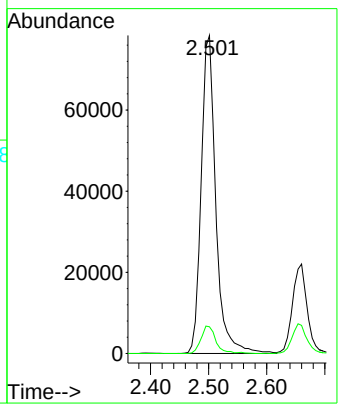
Tgt Ion: 76 Resp: 136752

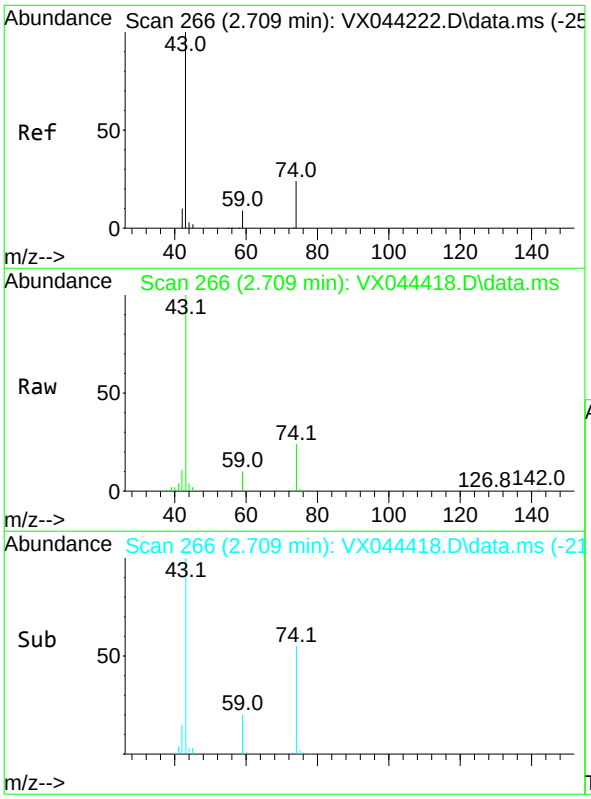
Ion	Ratio	Lower	Upper
76	100		
78	8.4	7.4	11.0

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

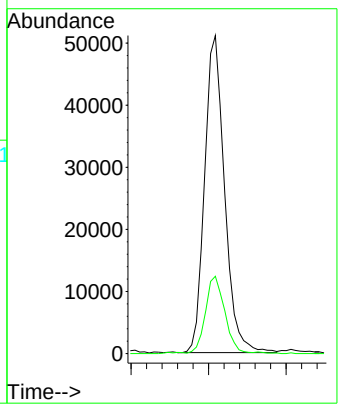


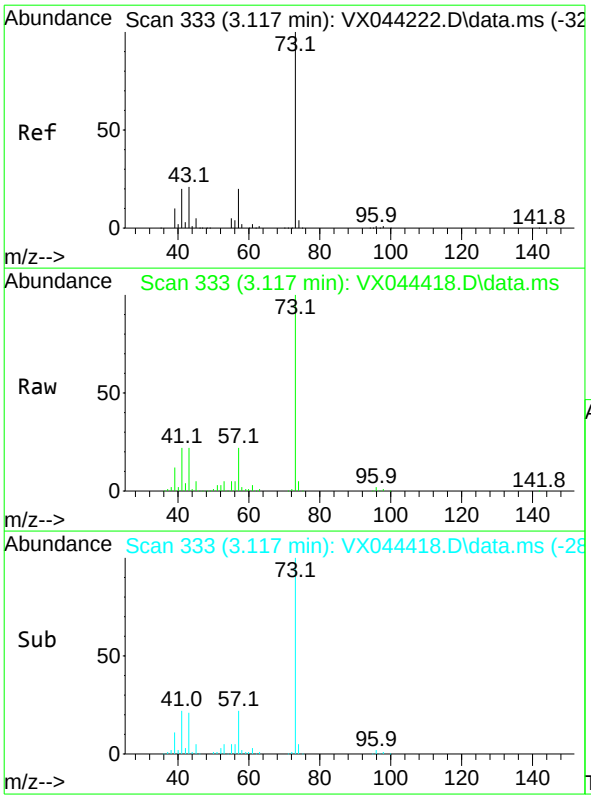


#18
Methyl Acetate
Concen: 42.373 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 43 Resp: 91330

Ion	Ratio	Lower	Upper
43	100		
74	23.9	17.7	26.5

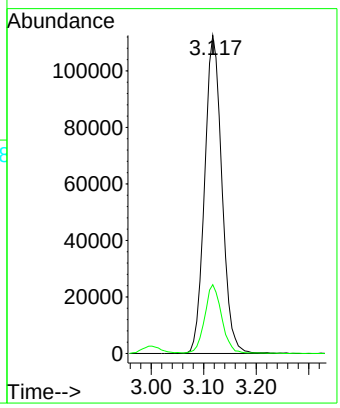




#19
Methyl tert-butyl Ether
Concen: 50.264 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 73 Resp: 257121

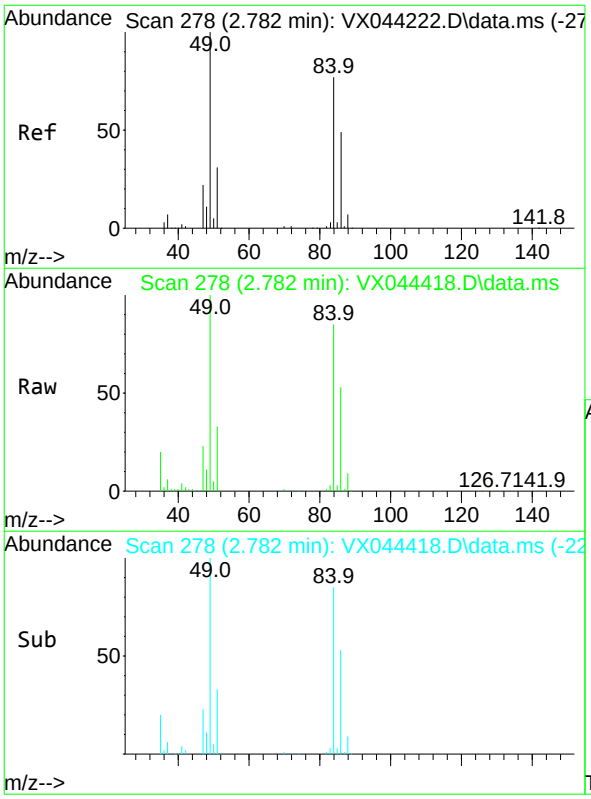
Ion	Ratio	Lower	Upper
73	100		
57	21.6	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

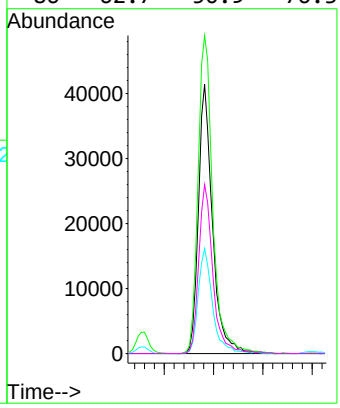
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

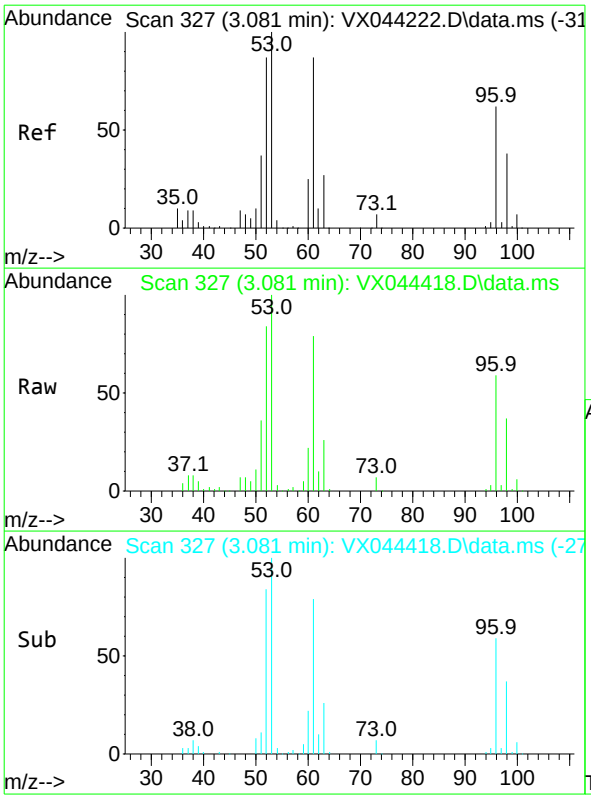


#20
Methylene Chloride
Concen: 52.348 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 84 Resp: 82193

Ion	Ratio	Lower	Upper
84	100		
49	118.1	104.2	156.4
51	39.0	32.2	48.4
86	62.7	50.9	76.3

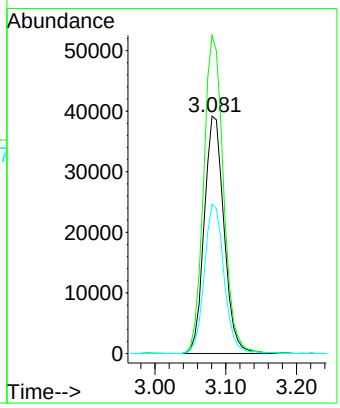




#21
trans-1,2-Dichloroethene
Concen: 54.489 ug/l
RT: 3.081 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 96 Resp: 75912

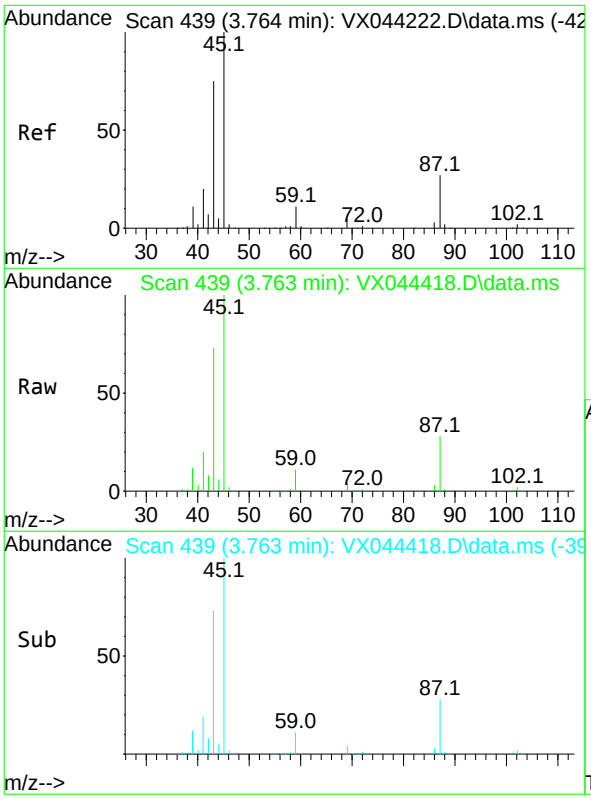
Ion	Ratio	Lower	Upper
96	100		
61	134.0	112.0	168.0
98	62.8	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

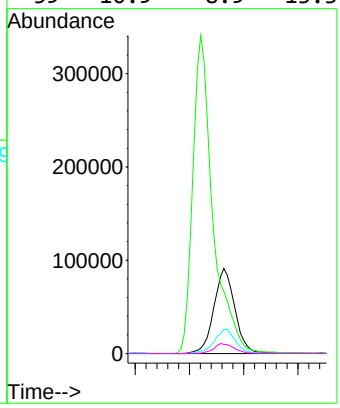
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

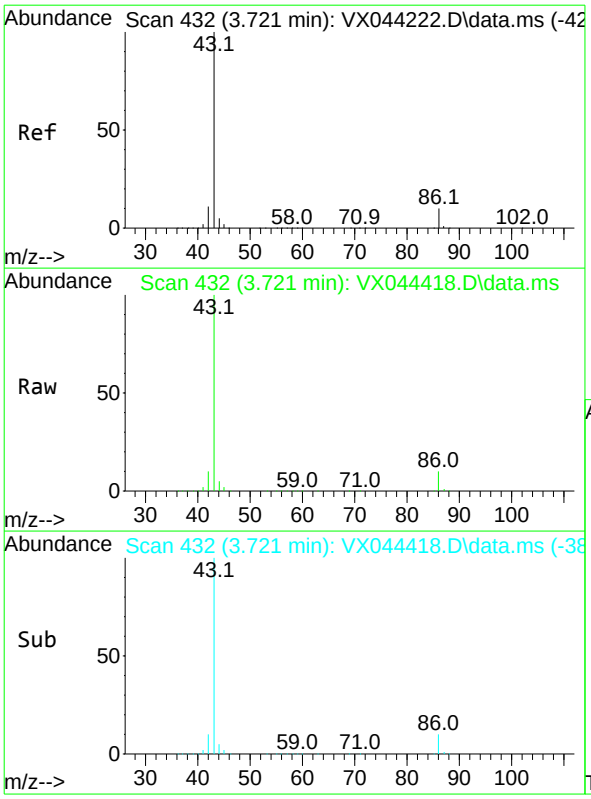


#22
Diisopropyl ether
Concen: 50.057 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 45 Resp: 246112

Ion	Ratio	Lower	Upper
45	100		
43	71.9	60.2	90.2
87	28.3	21.2	31.8
59	10.9	8.9	13.3





#23
Vinyl Acetate
Concen: 220.784 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

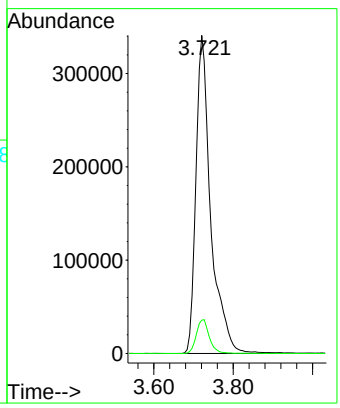
Tgt Ion: 43 Resp: 882527

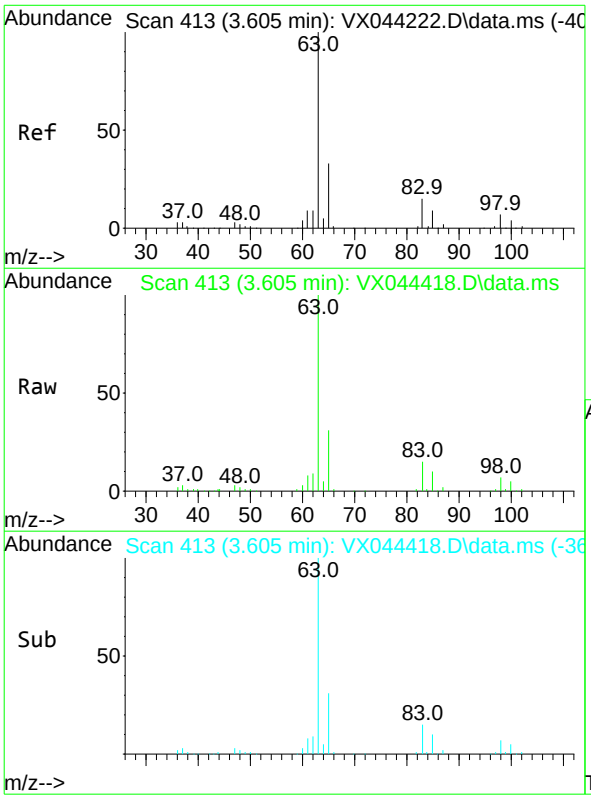
Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.2

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

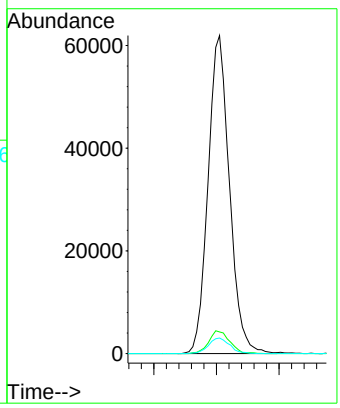


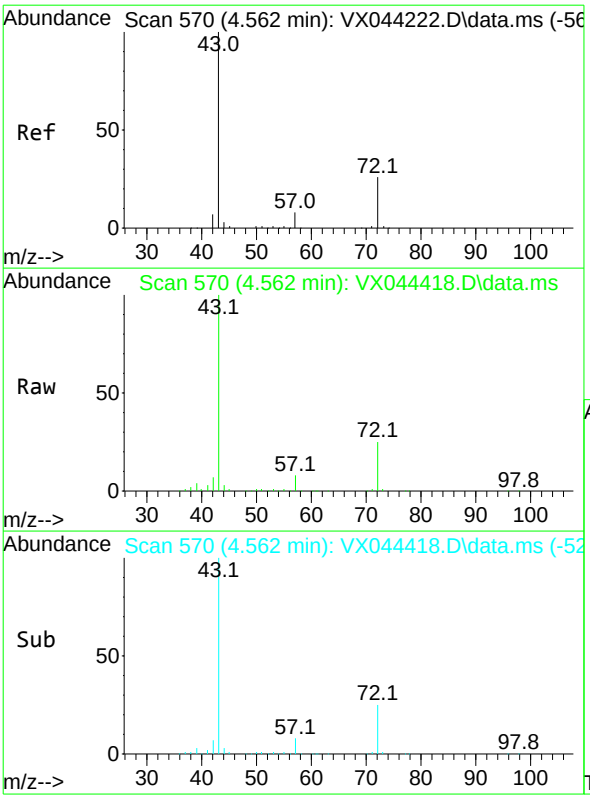


#24
1,1-Dichloroethane
Concen: 53.598 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 63 Resp: 146892

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.6	10.8
100	4.9	2.1	6.3





#25
2-Butanone
Concen: 248.629 ug/l
RT: 4.562 min Scan# 57
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

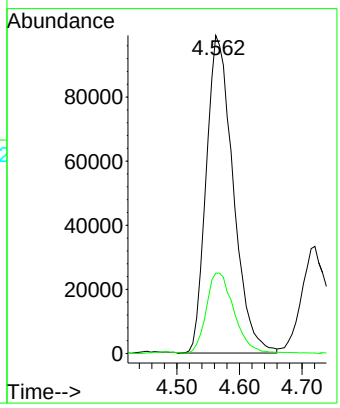
Tgt Ion: 43 Resp: 295478

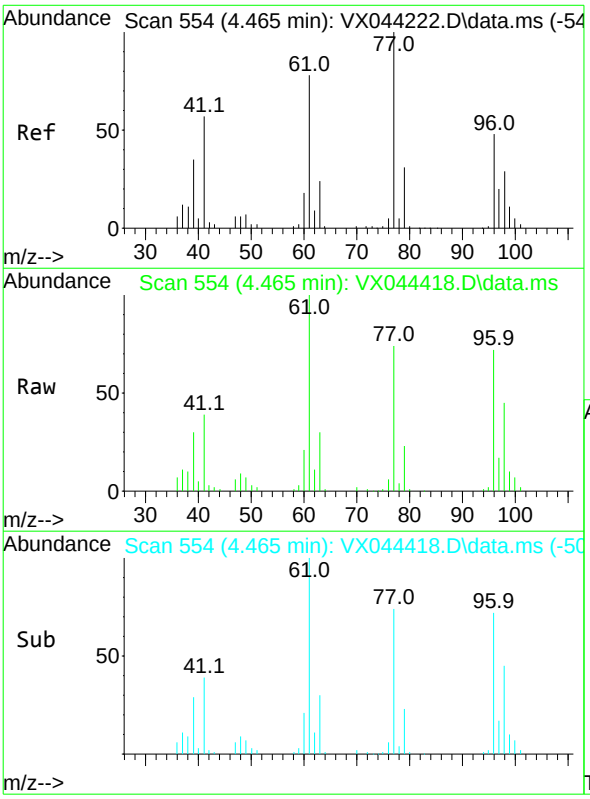
Ion	Ratio	Lower	Upper
43	100		
72	25.0	20.2	30.4

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

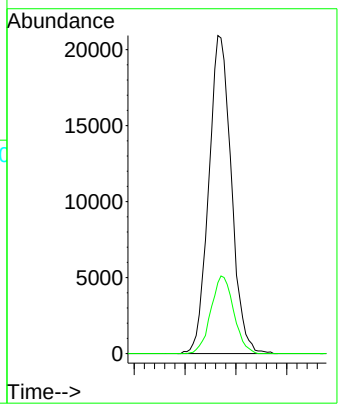


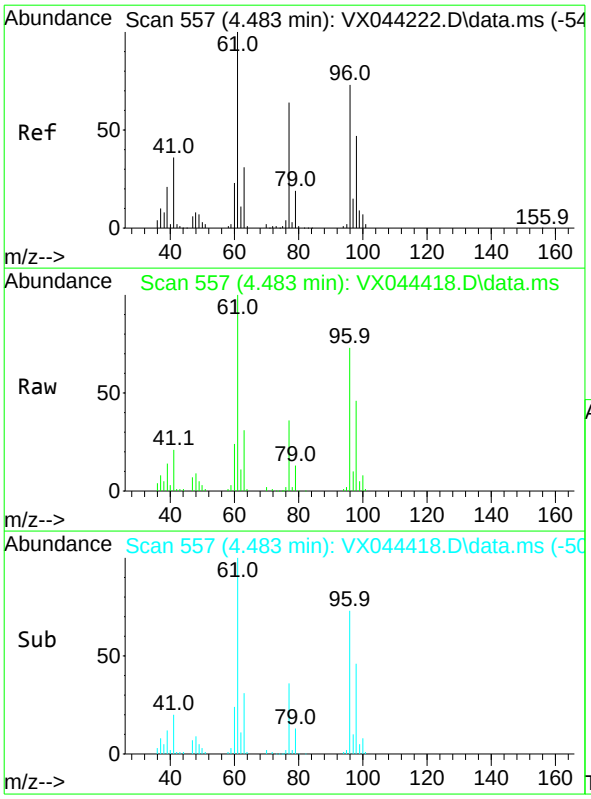


#26
2,2-Dichloropropane
Concen: 28.925 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 77 Resp: 64400

Ion	Ratio	Lower	Upper
77	100		
97	24.7	10.7	32.1

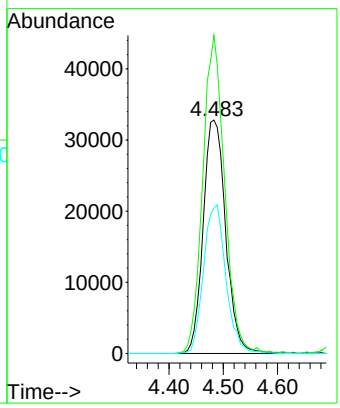




#27
cis-1,2-Dichloroethene
Concen: 53.571 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 96 Resp: 94786

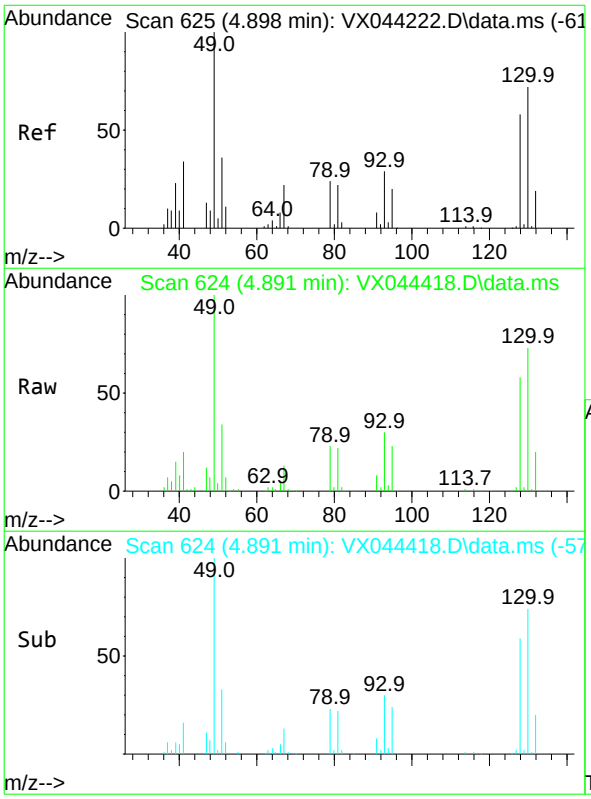
Ion	Ratio	Lower	Upper
96	100		
61	132.4	0.0	299.0
98	63.2	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

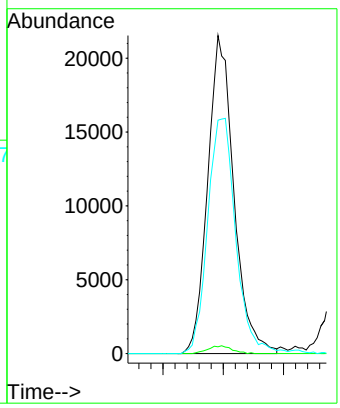
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

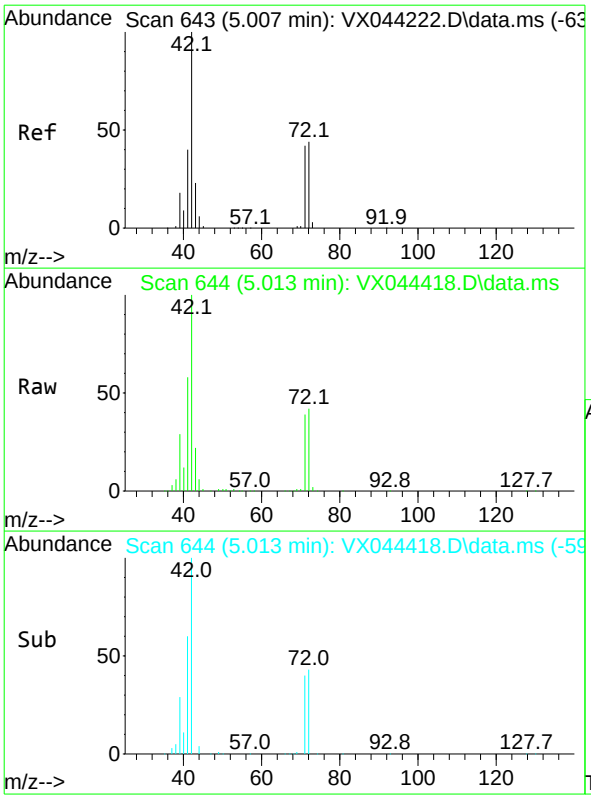


#28
Bromochloromethane
Concen: 48.286 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 49 Resp: 64892

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	79.3	62.1	93.1

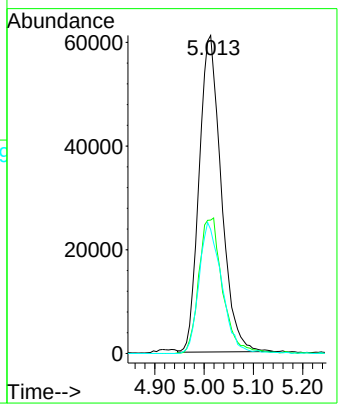




#29
Tetrahydrofuran
Concen: 249.164 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 42 Resp: 190066

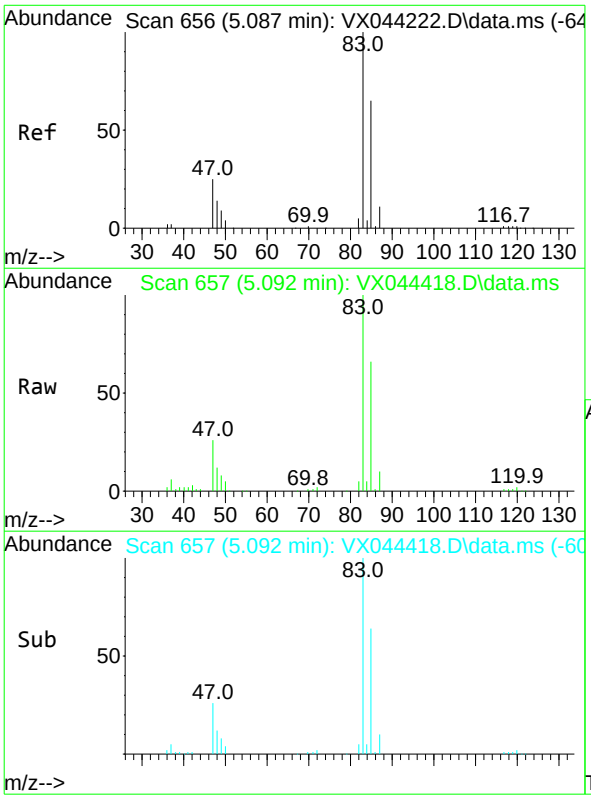
Ion	Ratio	Lower	Upper
42	100		
72	45.9	37.0	55.6
71	42.8	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

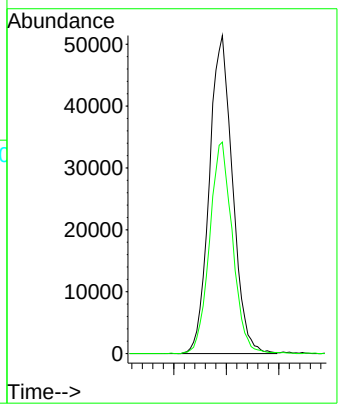
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

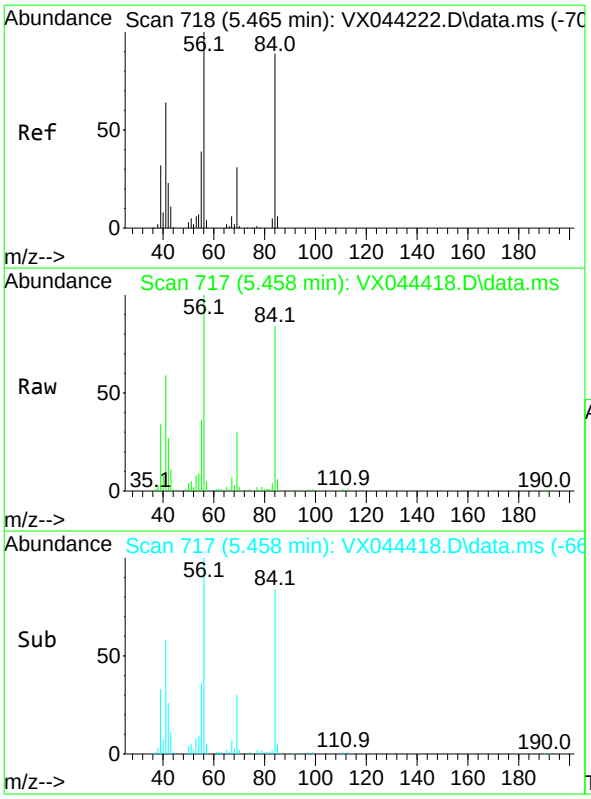


#30
Chloroform
Concen: 51.341 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 83 Resp: 158091

Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.6	77.4





#31
Cyclohexane
Concen: 51.830 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

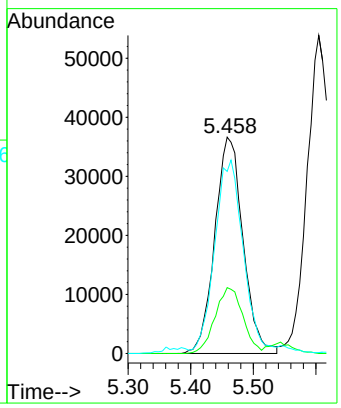
Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

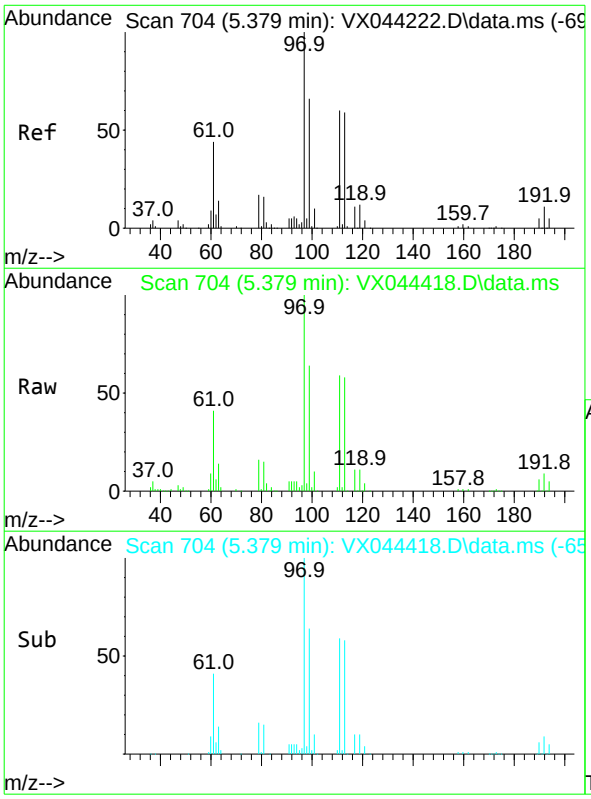
Tgt Ion: 56 Resp: 114705

Ion	Ratio	Lower	Upper
56	100		
69	30.4	24.7	37.1
84	82.3	71.0	106.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

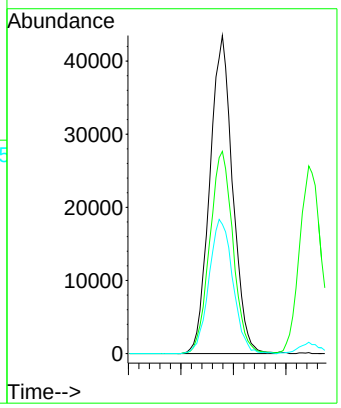


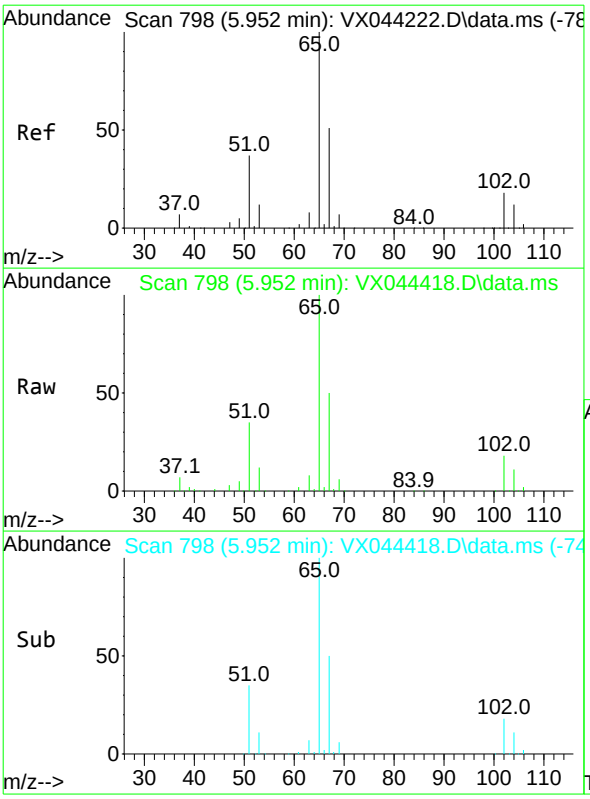


#32
1,1,1-Trichloroethane
Concen: 51.524 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 97 Resp: 131697

Ion	Ratio	Lower	Upper
97	100		
99	64.9	50.8	76.2
61	44.2	35.2	52.8





#33
1,2-Dichloroethane-d4
Concen: 49.102 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

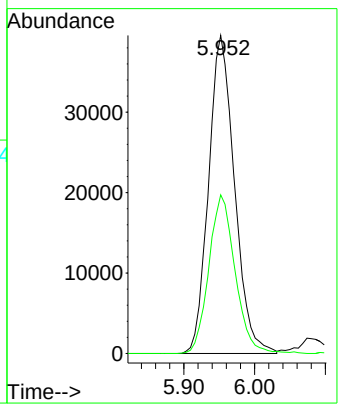
Tgt Ion: 65 Resp: 100683

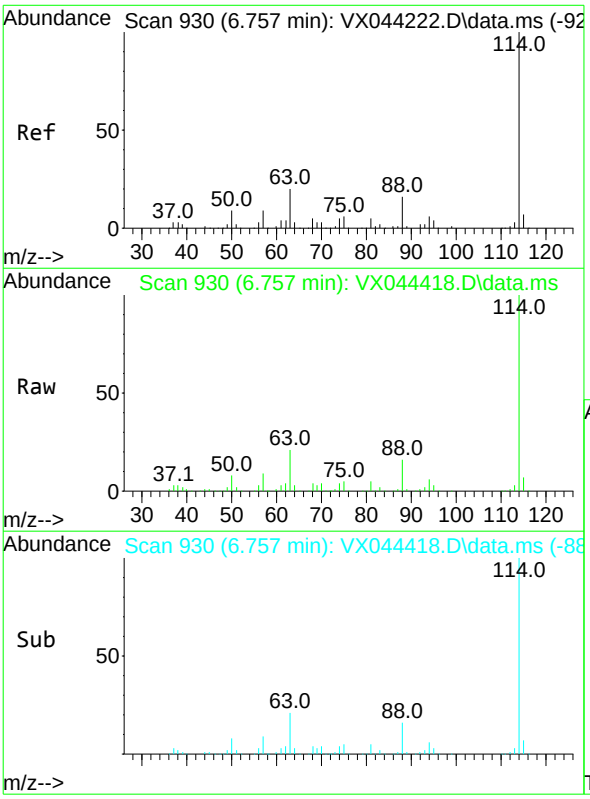
Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	101.6

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

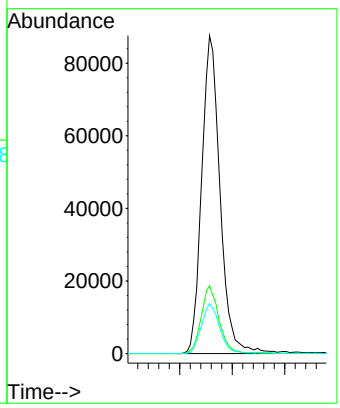


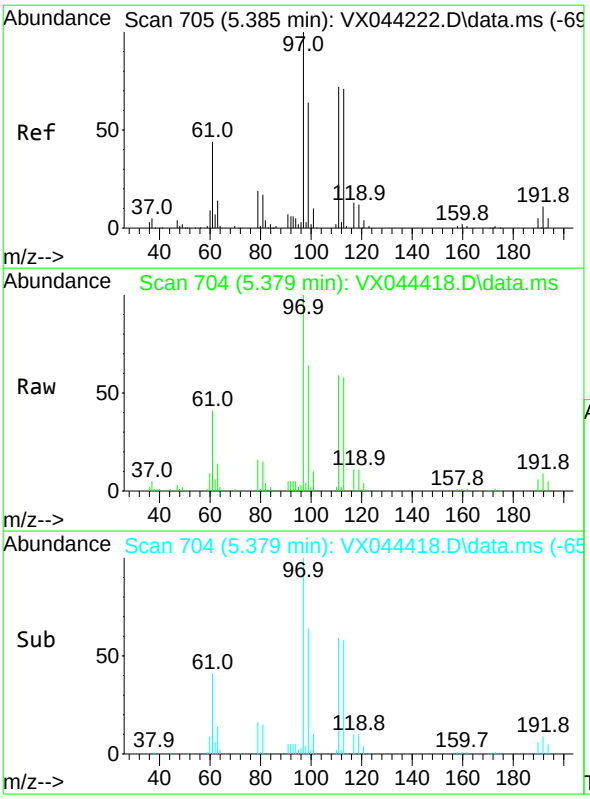


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:114 Resp: 212543

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	40.6
88	15.7	0.0	31.8





#35
Dibromofluoromethane
Concen: 52.606 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

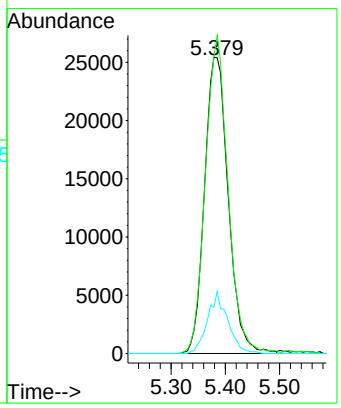
Tgt Ion:113 Resp: 77439

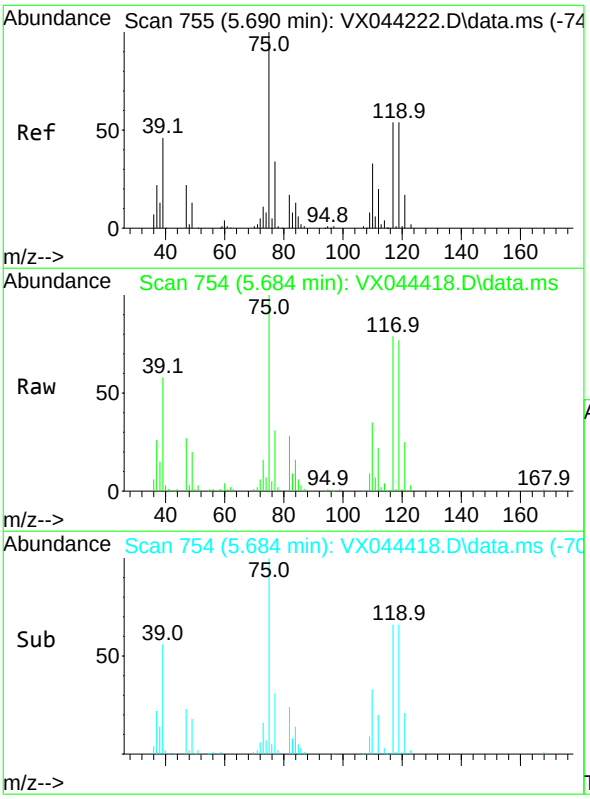
Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.4	120.6
192	17.8	13.3	19.9

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

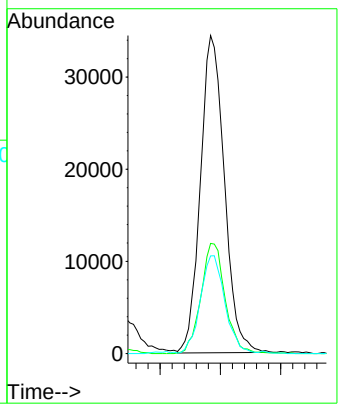


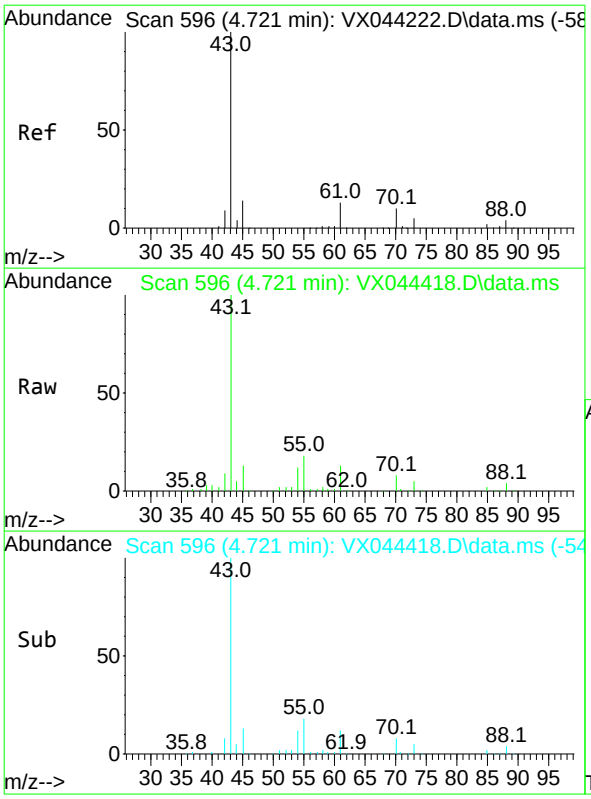


#36
1,1-Dichloropropene
Concen: 50.092 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 75 Resp: 95317

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.3	51.7
77	31.2	25.4	38.0





#37
Ethyl Acetate
Concen: 41.733 ug/l
RT: 4.721 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

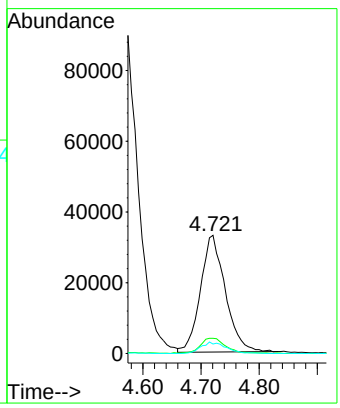
Tgt Ion: 43 Resp: 98162

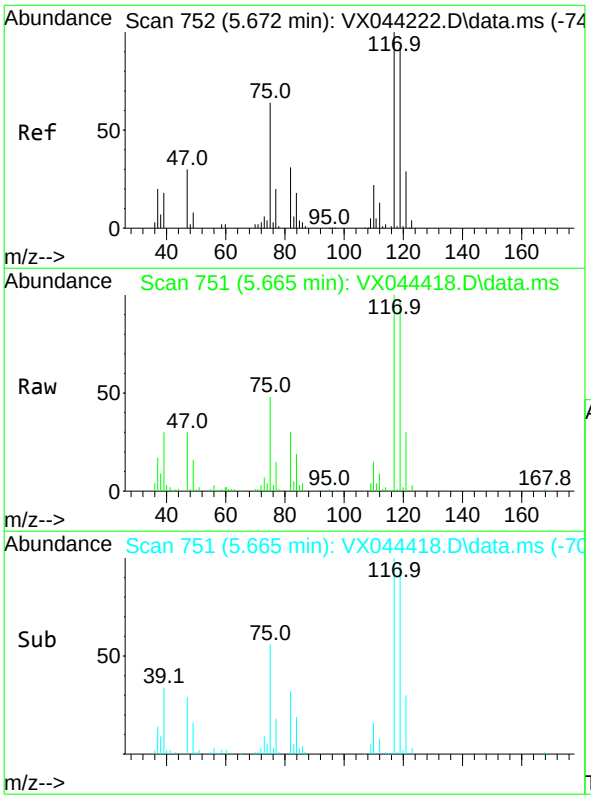
Ion	Ratio	Lower	Upper
43	100		
61	13.6	9.8	14.8
70	9.8	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

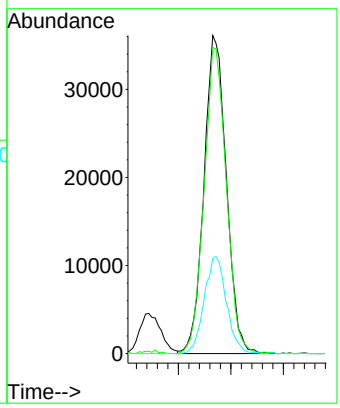


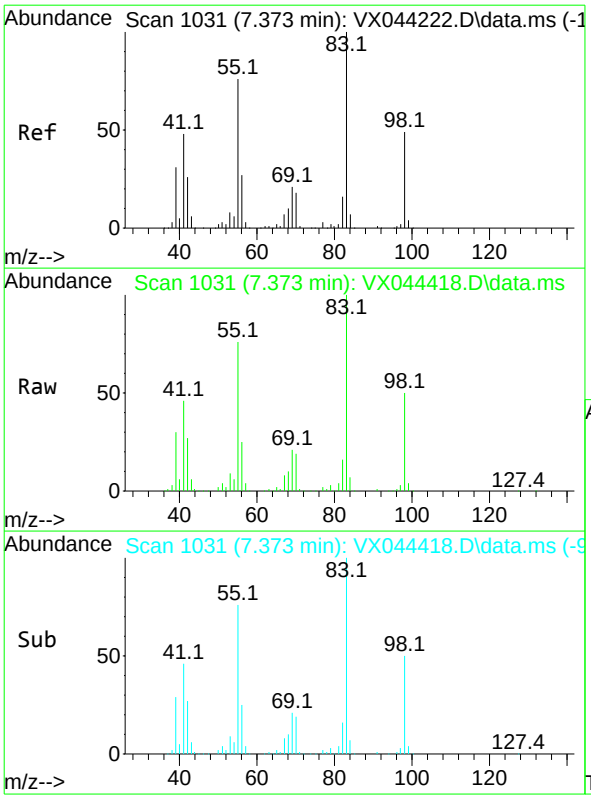


#38
Carbon Tetrachloride
Concen: 52.253 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:117 Resp: 107044

Ion	Ratio	Lower	Upper
117	100		
119	96.2	74.2	111.4
121	29.9	23.0	34.6





#39
Methylcyclohexane
Concen: 49.208 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

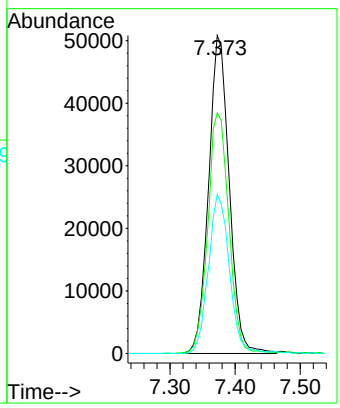
Tgt Ion: 83 Resp: 111938

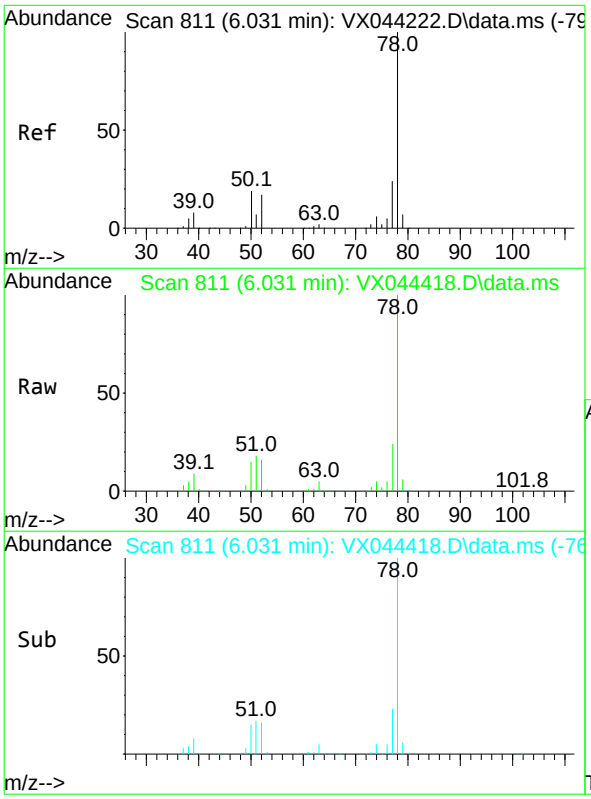
Ion	Ratio	Lower	Upper
83	100		
55	75.5	60.7	91.1
98	50.0	38.9	58.3

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

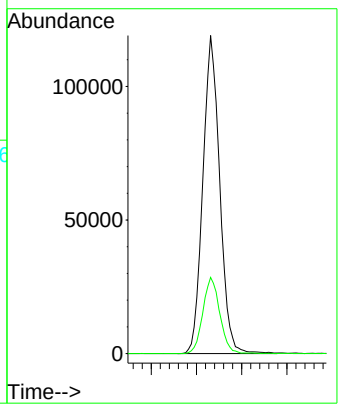


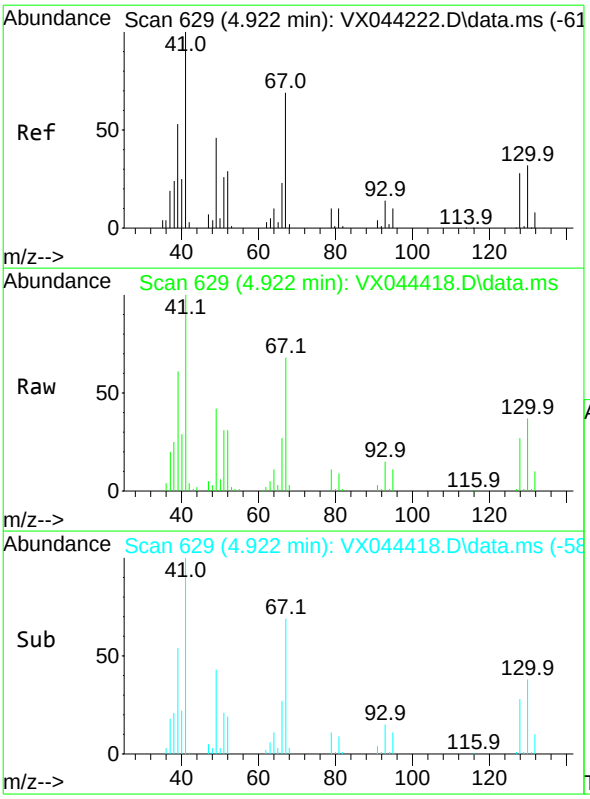


#40
Benzene
Concen: 53.397 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 78 Resp: 308489

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.3	28.9





#41
Methacrylonitrile
Concen: 48.914 ug/l
RT: 4.922 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

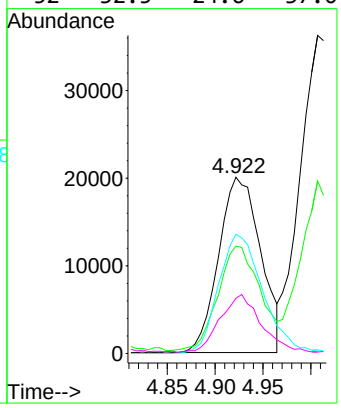
Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

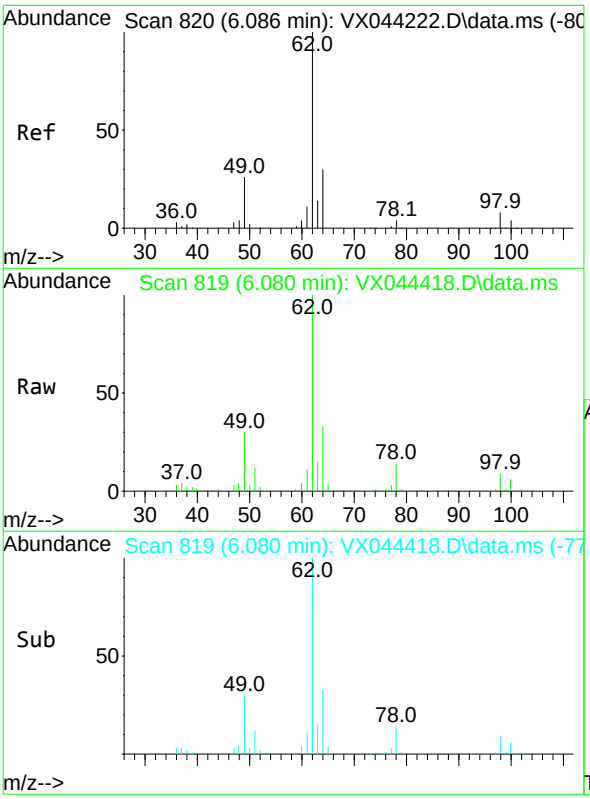
Tgt Ion: 41 Resp: 61093

Ion	Ratio	Lower	Upper
41	100		
39	59.0	44.2	66.4
67	73.0	57.2	85.8
52	32.5	24.6	37.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

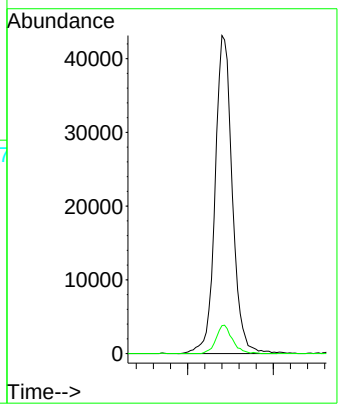


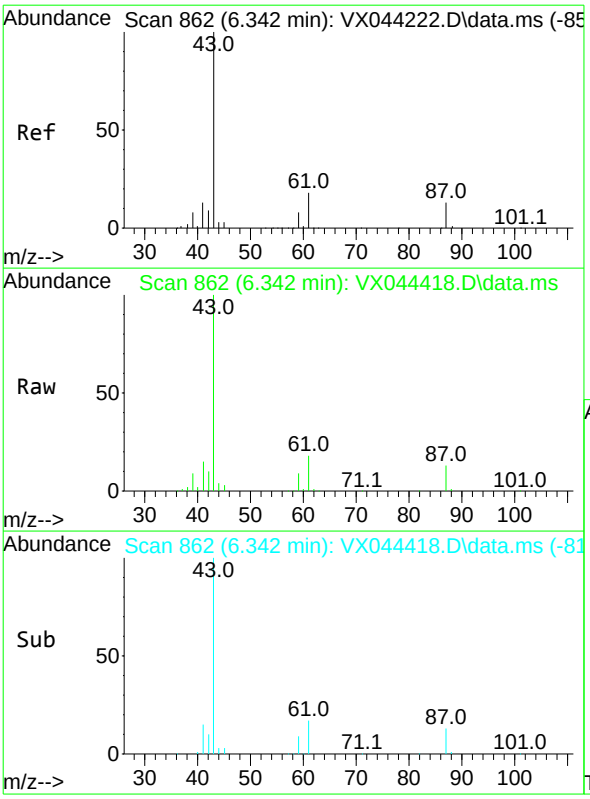


#42
1,2-Dichloroethane
Concen: 50.501 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 62 Resp: 120186

Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	15.8





#43
Isopropyl Acetate
Concen: 45.950 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

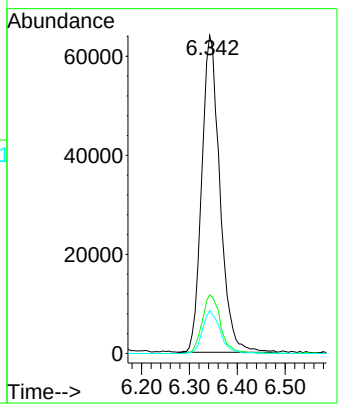
Tgt Ion: 43 Resp: 168928

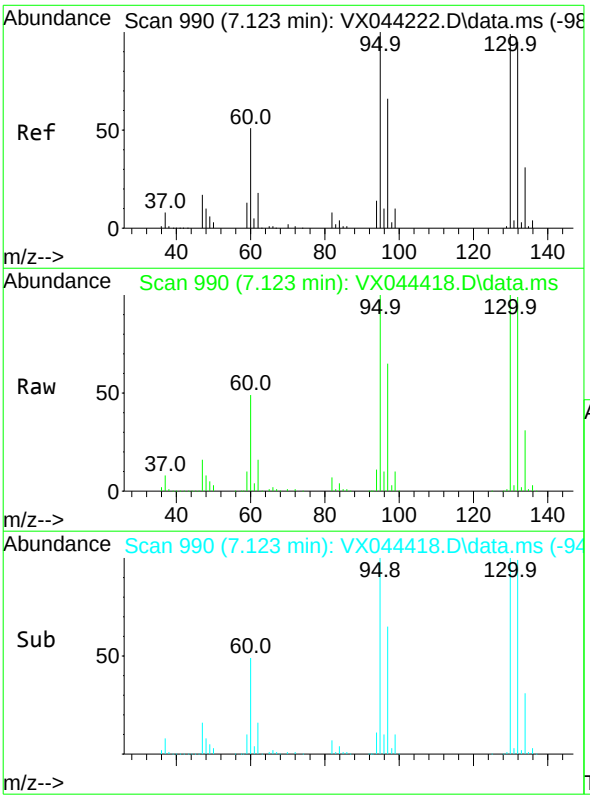
Ion	Ratio	Lower	Upper
43	100		
61	18.8	14.2	21.2
87	13.0	10.2	15.2

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

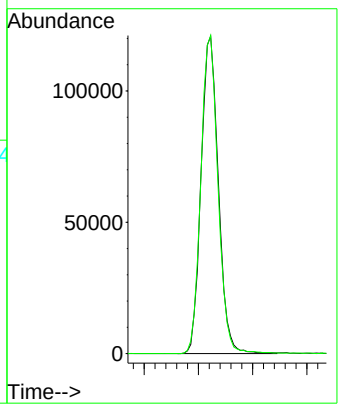


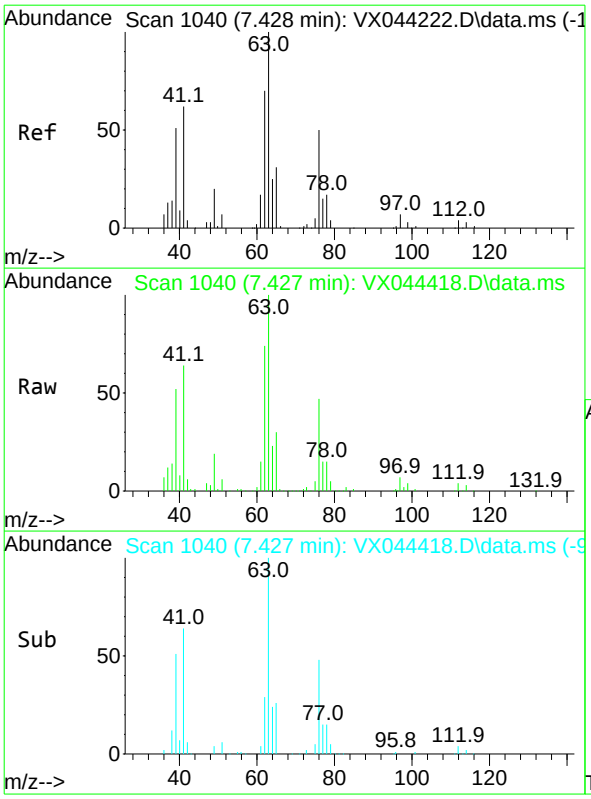


#44
Trichloroethene
Concen: 185.797 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:130 Resp: 267679

Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	201.4





#45
1,2-Dichloropropane
Concen: 51.732 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

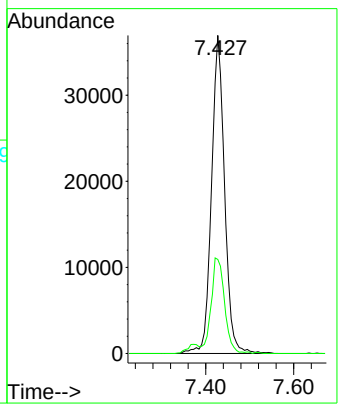
Tgt Ion: 63 Resp: 76356

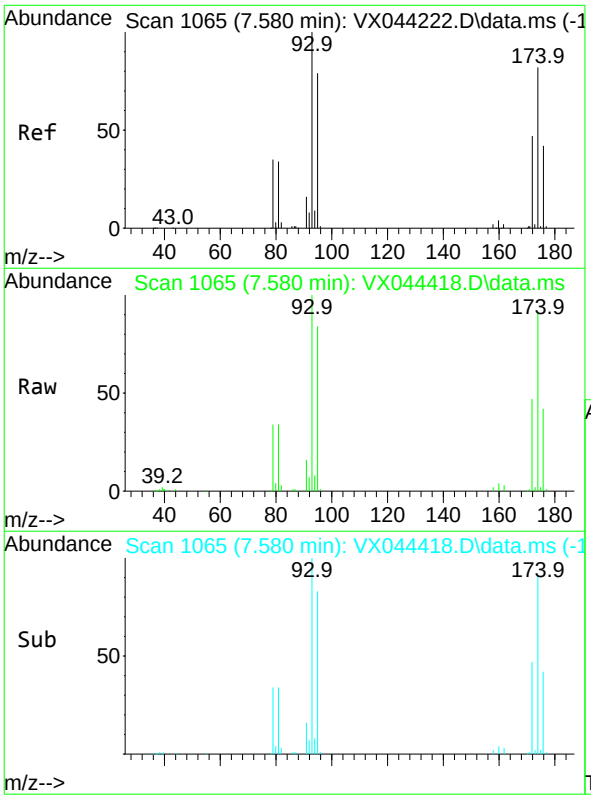
Ion	Ratio	Lower	Upper
63	100		
65	29.6	24.6	37.0

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

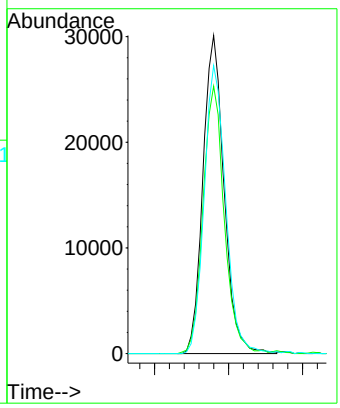


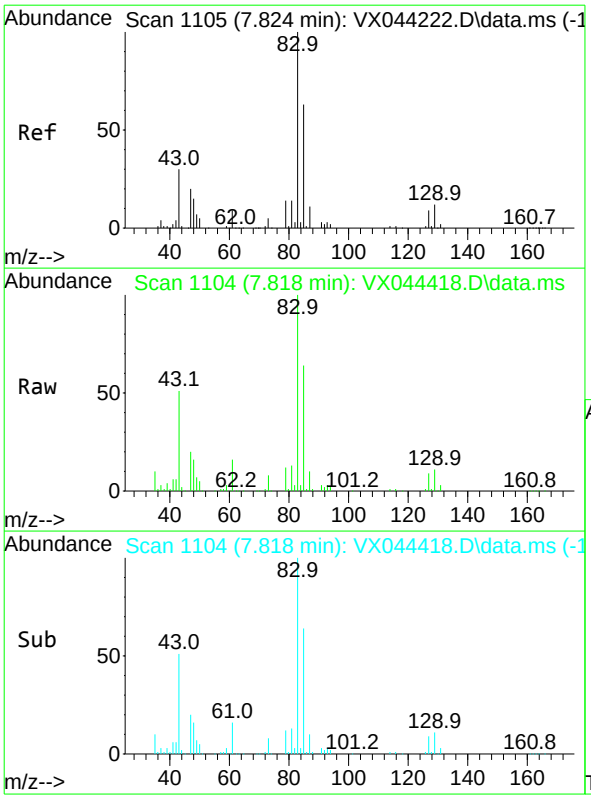


#46
Dibromomethane
Concen: 52.060 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 93 Resp: 59613

Ion	Ratio	Lower	Upper
93	100		
95	84.5	65.4	98.2
174	92.4	67.9	101.9





#47
Bromodichloromethane
Concen: 53.860 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

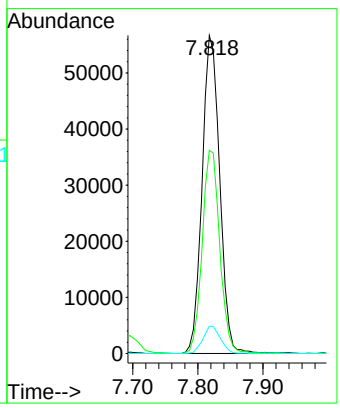
Tgt Ion: 83 Resp: 106514

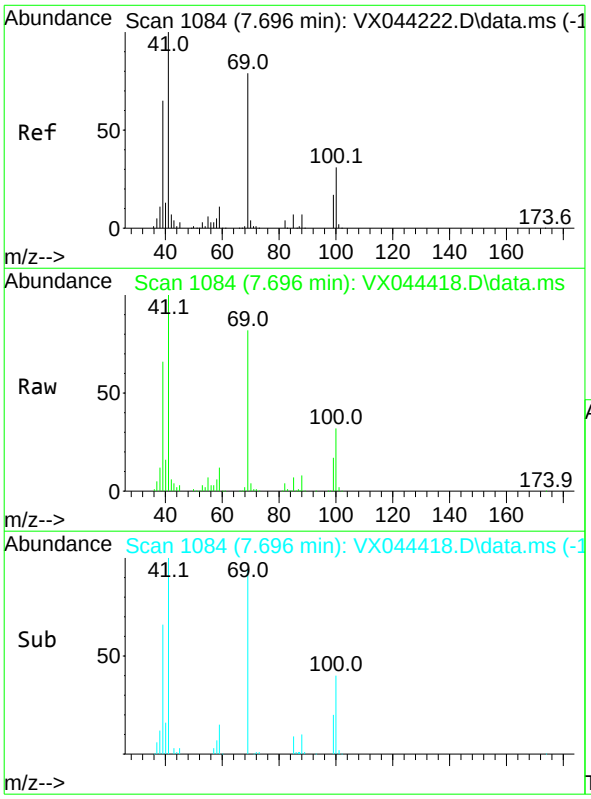
Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.6	75.8
127	8.6	7.3	10.9

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

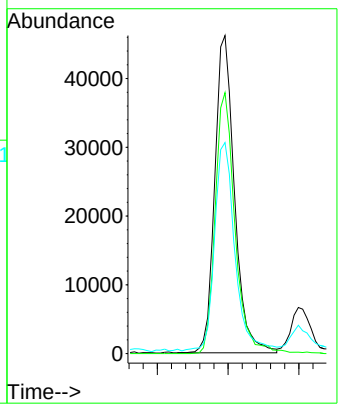


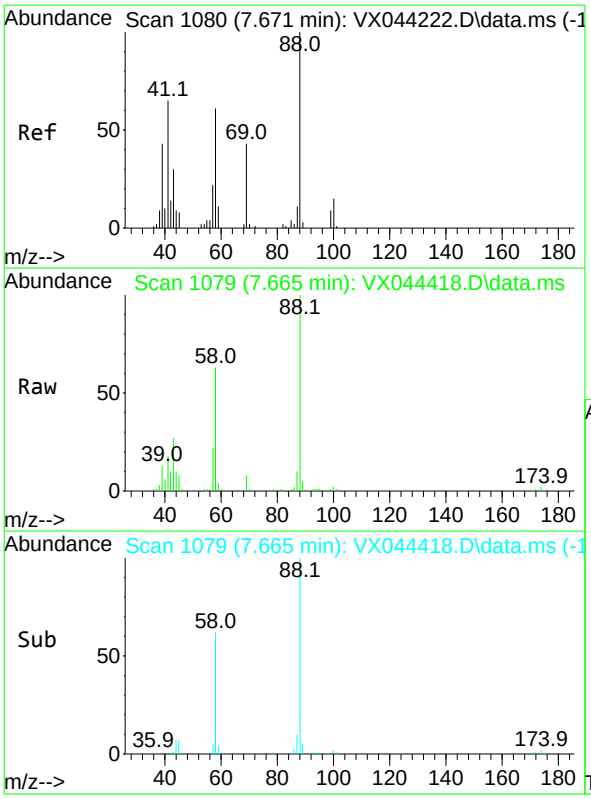


#48
Methyl methacrylate
Concen: 49.967 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 41 Resp: 89170

Ion	Ratio	Lower	Upper
41	100		
69	82.9	62.4	93.6
39	67.2	53.3	79.9





#49
1,4-Dioxane
Concen: 1236.819 ug/l
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

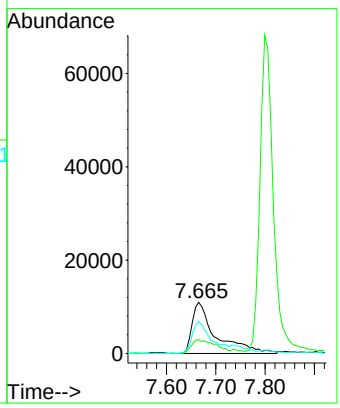
Tgt Ion: 88 Resp: 36595

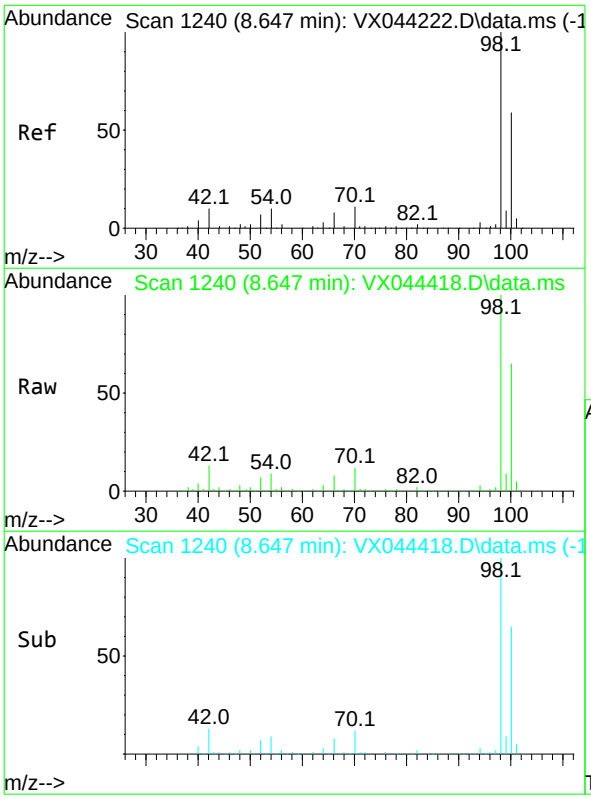
Ion	Ratio	Lower	Upper
88	100		
43	28.3	27.1	40.7
58	50.2	41.0	61.4

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

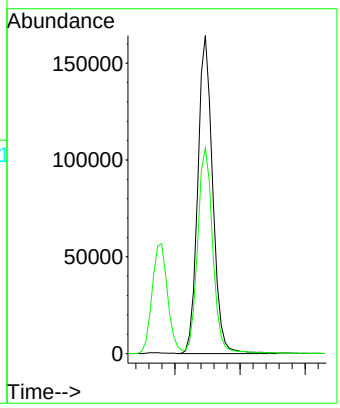


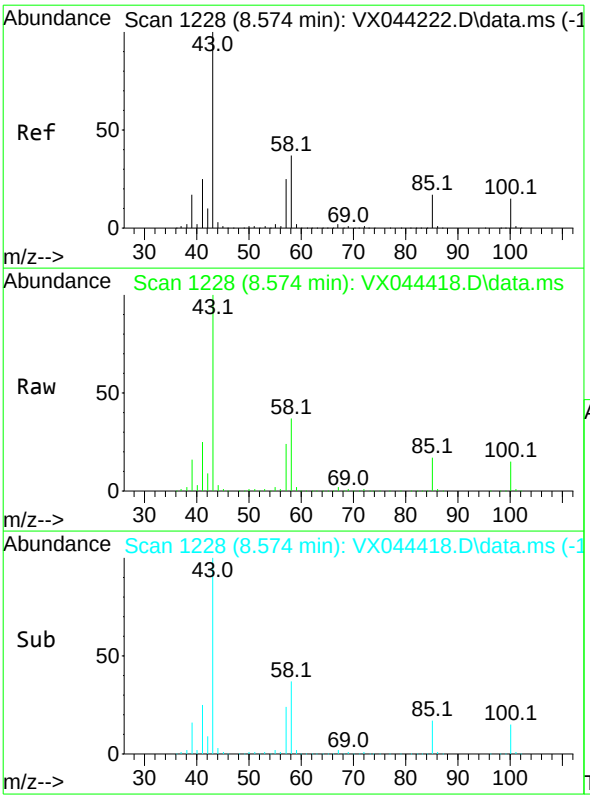


#50
Toluene-d8
Concen: 52.508 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 98 Resp: 260771

Ion	Ratio	Lower	Upper
98	100		
100	65.7	51.5	77.3

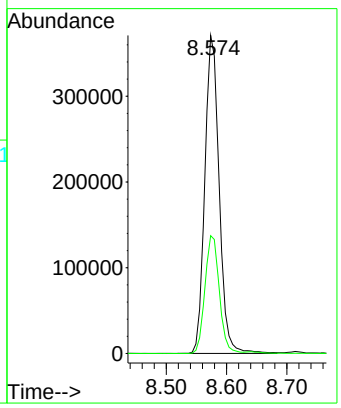




#51
4-Methyl-2-Pentanone
Concen: 259.119 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 43 Resp: 612508

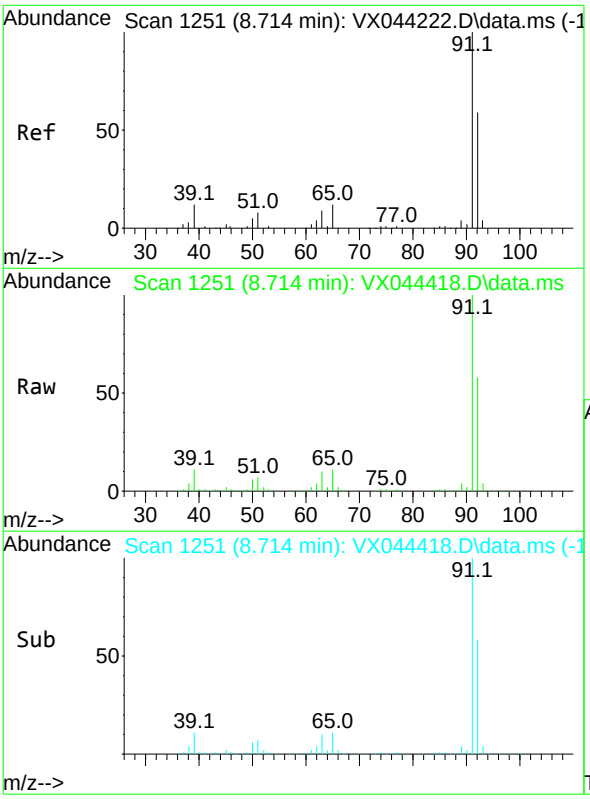
Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

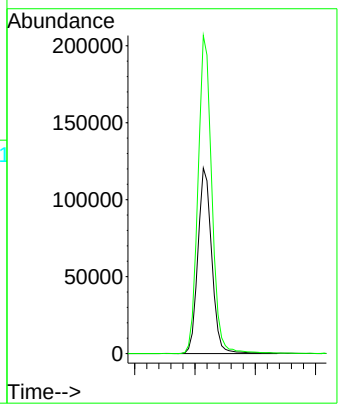
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

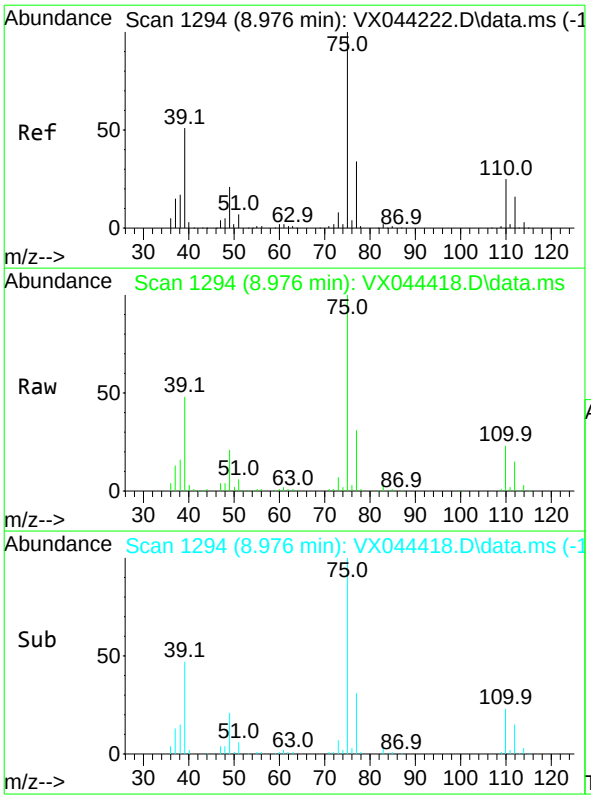


#52
Toluene
Concen: 52.936 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 92 Resp: 192052

Ion	Ratio	Lower	Upper
92	100		
91	171.4	137.0	205.6

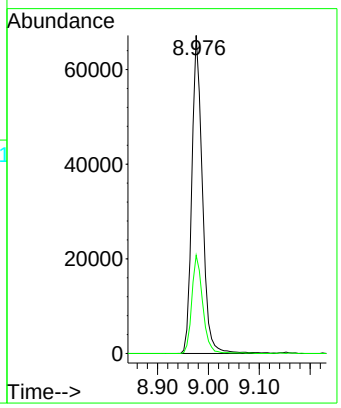




#53
t-1,3-Dichloropropene
Concen: 46.021 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 75 Resp: 97126

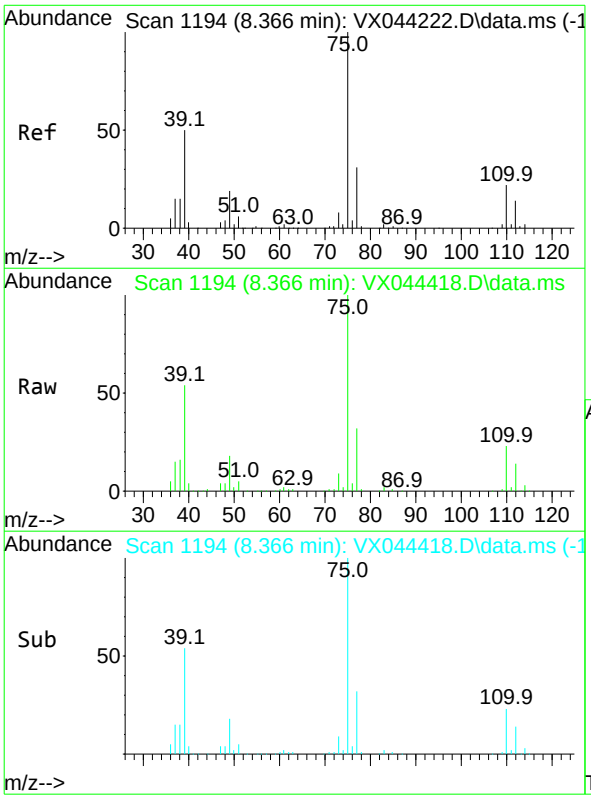
Ion	Ratio	Lower	Upper
75	100		
77	30.9	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

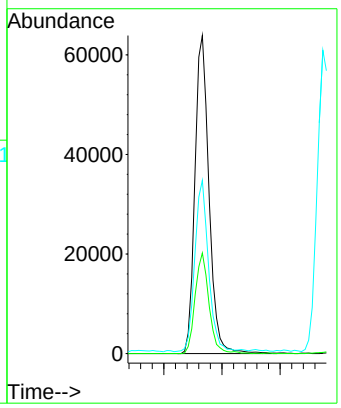
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

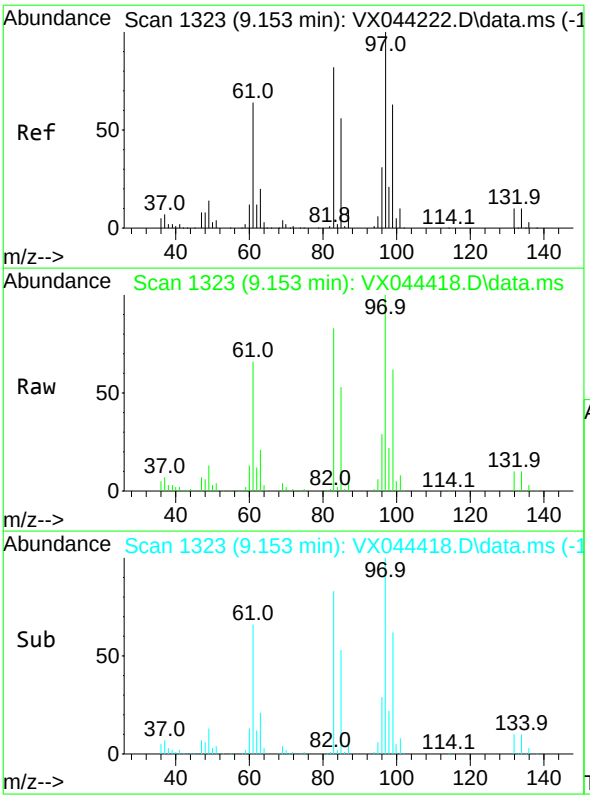


#54
cis-1,3-Dichloropropene
Concen: 49.904 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 75 Resp: 107458

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.7	37.1
39	53.7	40.3	60.5

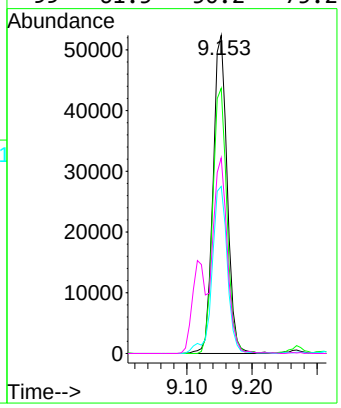




#55
1,1,2-Trichloroethane
Concen: 54.799 ug/l
RT: 9.153 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 97 Resp: 78981

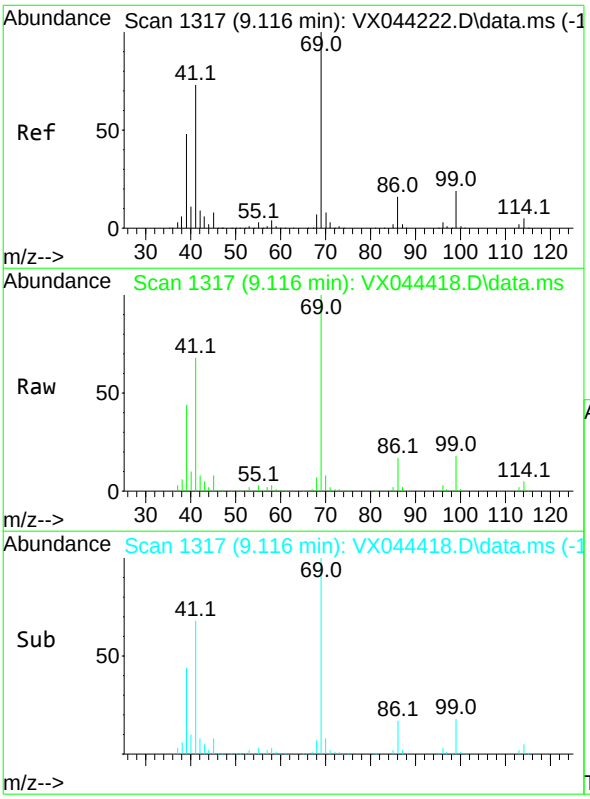
Ion	Ratio	Lower	Upper
97	100		
83	83.4	65.3	97.9
85	52.5	44.6	67.0
99	61.5	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

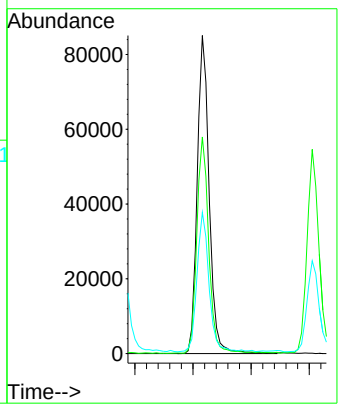
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

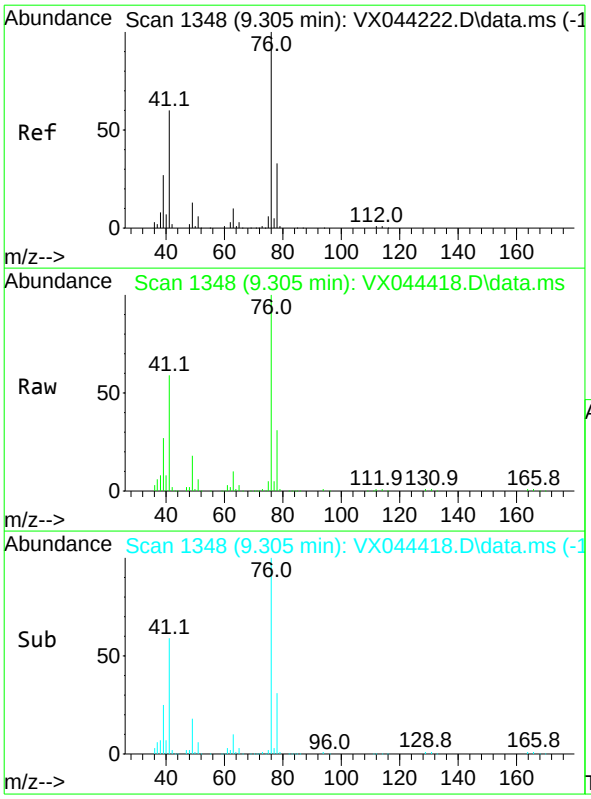


#56
Ethyl methacrylate
Concen: 53.416 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 69 Resp: 121540

Ion	Ratio	Lower	Upper
69	100		
41	67.6	56.6	85.0
39	43.7	37.4	56.0

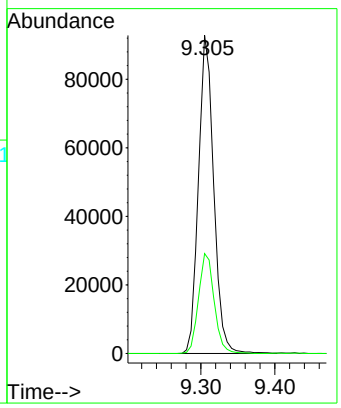




#57
1,3-Dichloropropane
Concen: 52.942 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 76 Resp: 132816

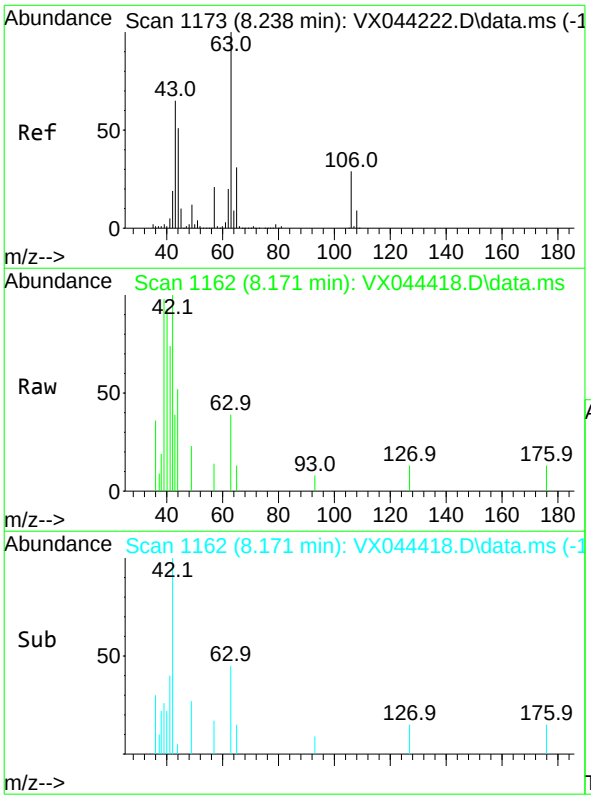
Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

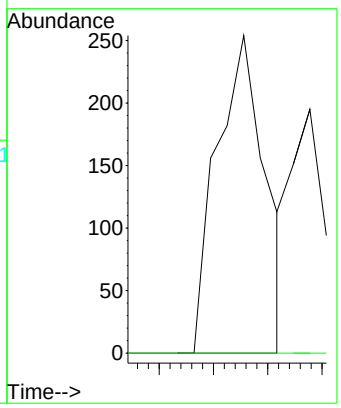
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

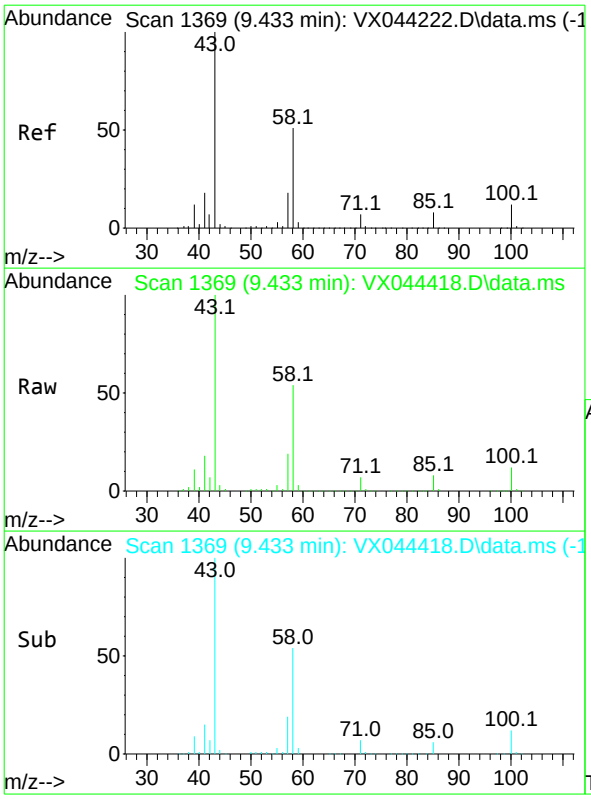


#58
2-Chloroethyl Vinyl ether
Concen: 0.274 ug/l
RT: 8.171 min Scan# 1162
Delta R.T. -0.067 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 63 Resp: 315

Ion	Ratio	Lower	Upper
63	100		
106	0.0	22.8	34.2#





#59
2-Hexanone
Concen: 262.936 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

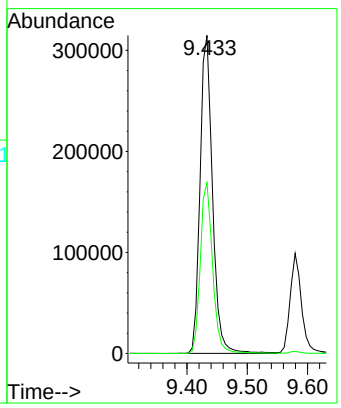
Tgt Ion: 43 Resp: 449879

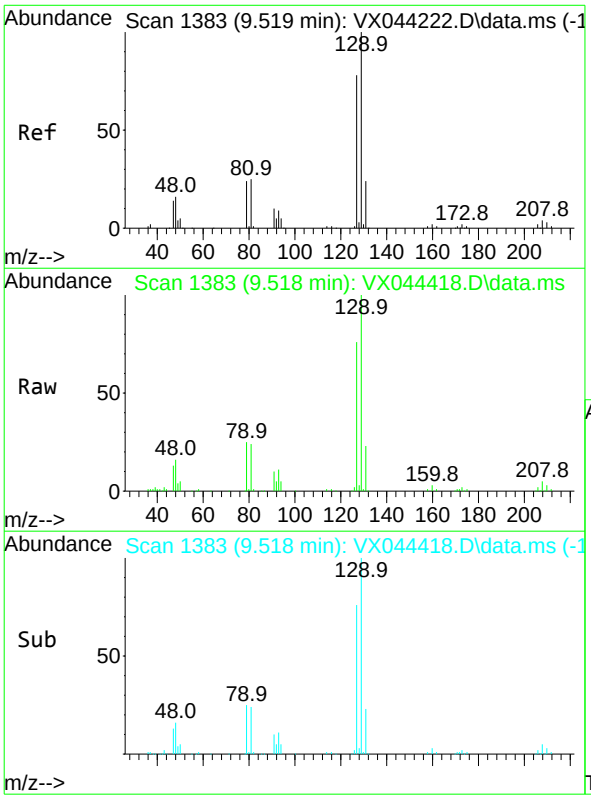
Ion	Ratio	Lower	Upper
43	100		
58	53.4	25.7	77.0

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

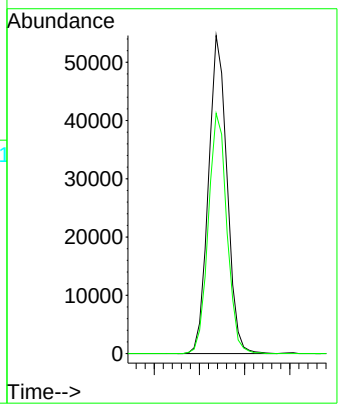


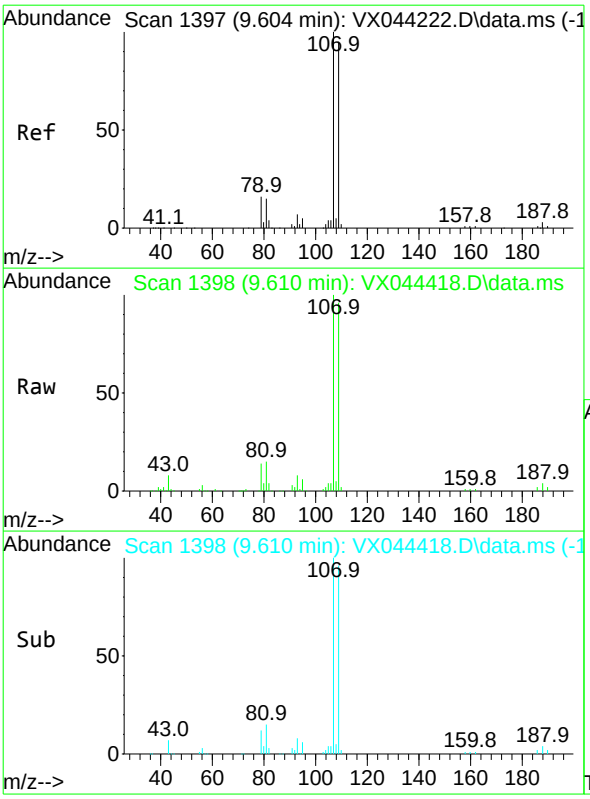


#60
Dibromochloromethane
Concen: 50.885 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:129 Resp: 77763

Ion	Ratio	Lower	Upper
129	100		
127	75.6	38.5	115.3





#61
1,2-Dibromoethane
Concen: 54.710 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

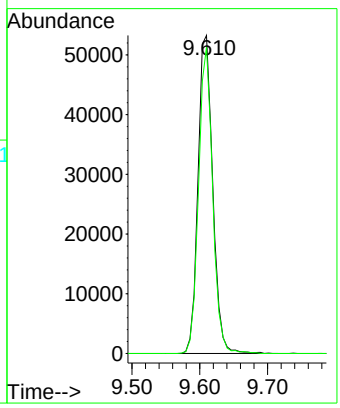
Tgt Ion:107 Resp: 80264

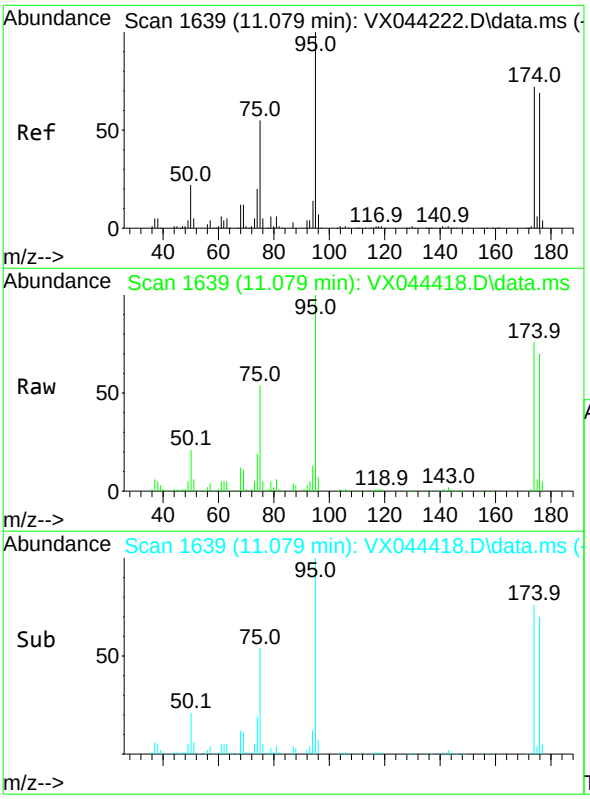
Ion	Ratio	Lower	Upper
107	100		
109	92.2	77.0	115.4

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

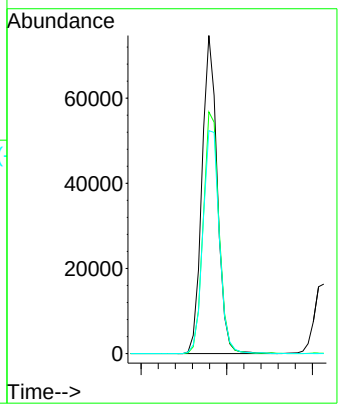


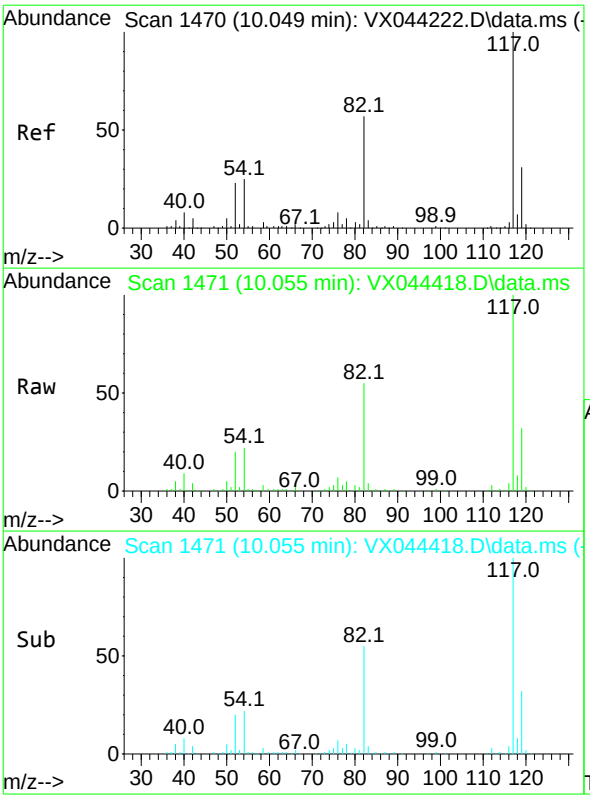


#62
4-Bromofluorobenzene
Concen: 53.347 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 95 Resp: 92575

Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	145.8
176	75.2	0.0	137.8

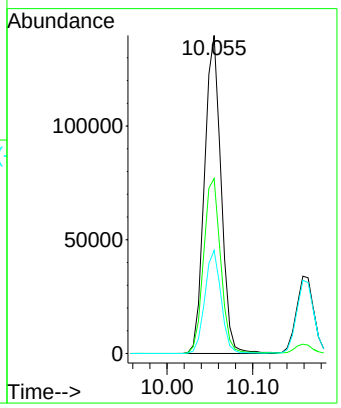




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:117 Resp: 188325

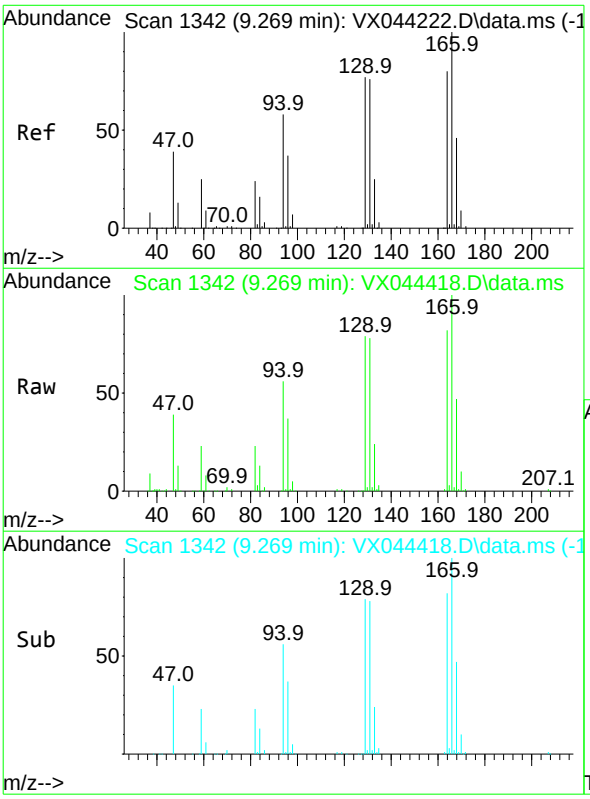
Ion	Ratio	Lower	Upper
117	100		
82	55.0	45.8	68.8
119	32.4	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

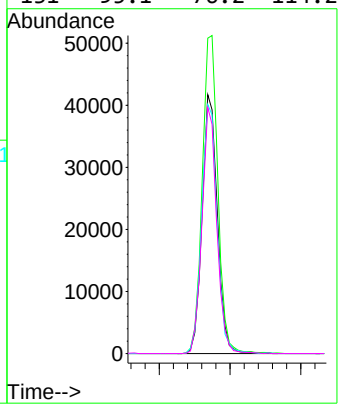
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

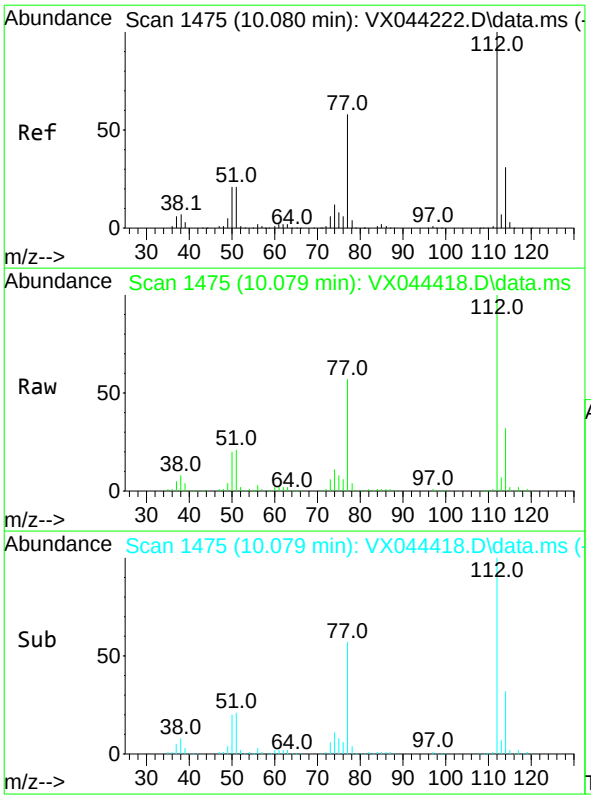


#64
Tetrachloroethene
Concen: 49.825 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:164 Resp: 62279

Ion	Ratio	Lower	Upper
164	100		
166	121.8	100.4	150.6
129	96.2	77.2	115.8
131	95.1	76.2	114.2





#65
Chlorobenzene
Concen: 51.150 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

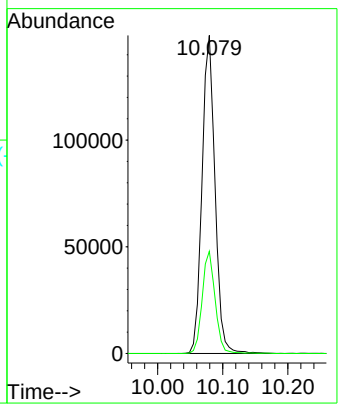
Tgt Ion:112 Resp: 206411

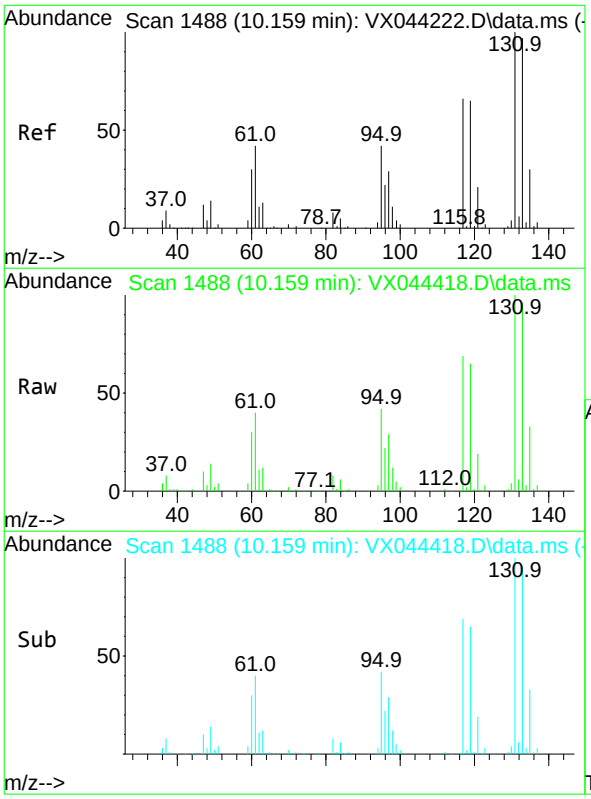
Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.0	37.6

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

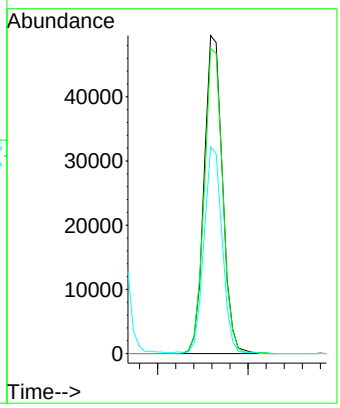


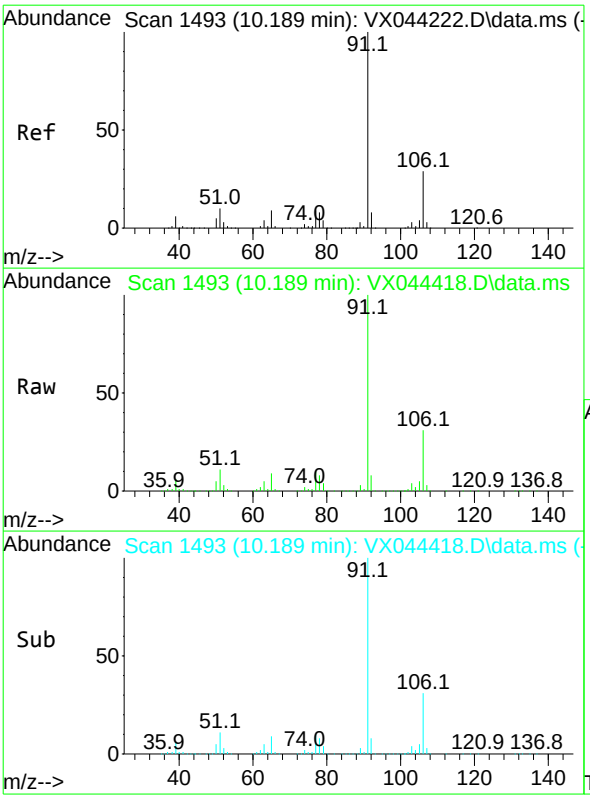


#66
1,1,1,2-Tetrachloroethane
Concen: 53.786 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:131 Resp: 69756

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	141.8
119	64.7	31.6	95.0

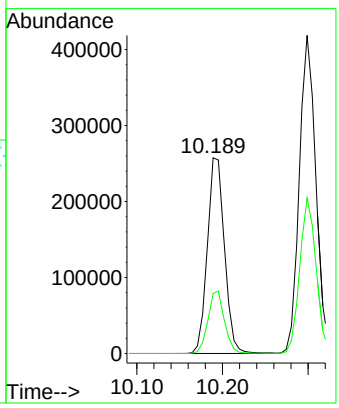




#67
Ethyl Benzene
Concen: 51.351 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 91 Resp: 358045

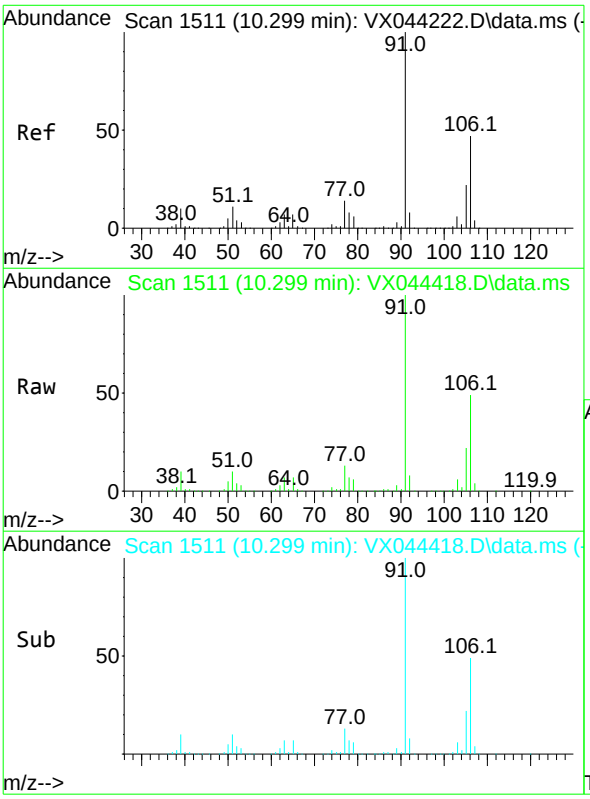
Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

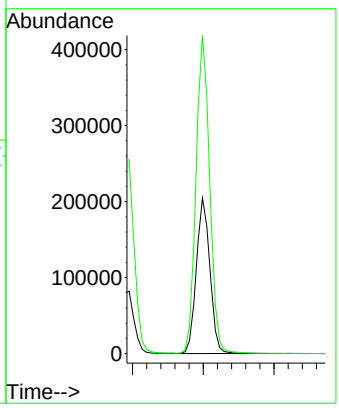
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

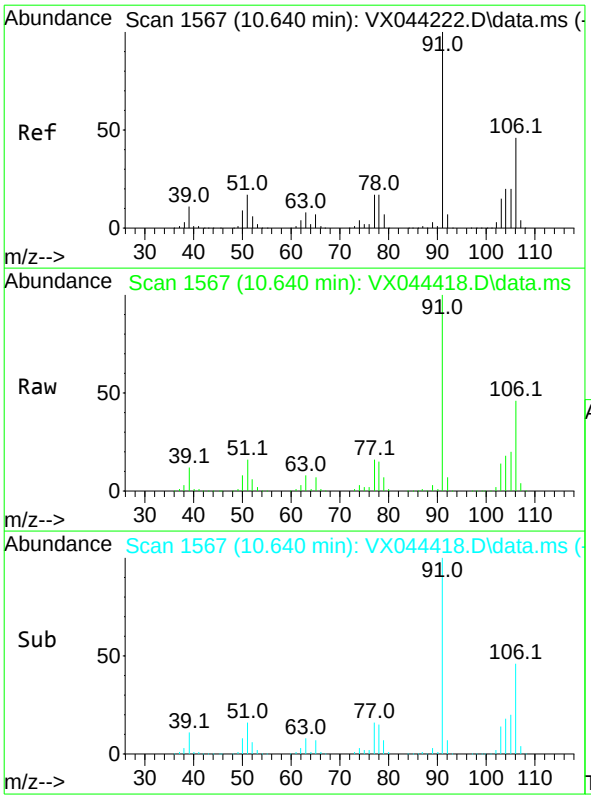


#68
m/p-Xylenes
Concen: 106.570 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:106 Resp: 272658

Ion	Ratio	Lower	Upper
106	100		
91	206.6	170.2	255.2

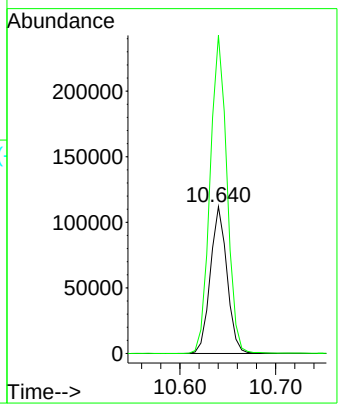




#69
o-Xylene
Concen: 52.382 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:106 Resp: 135601

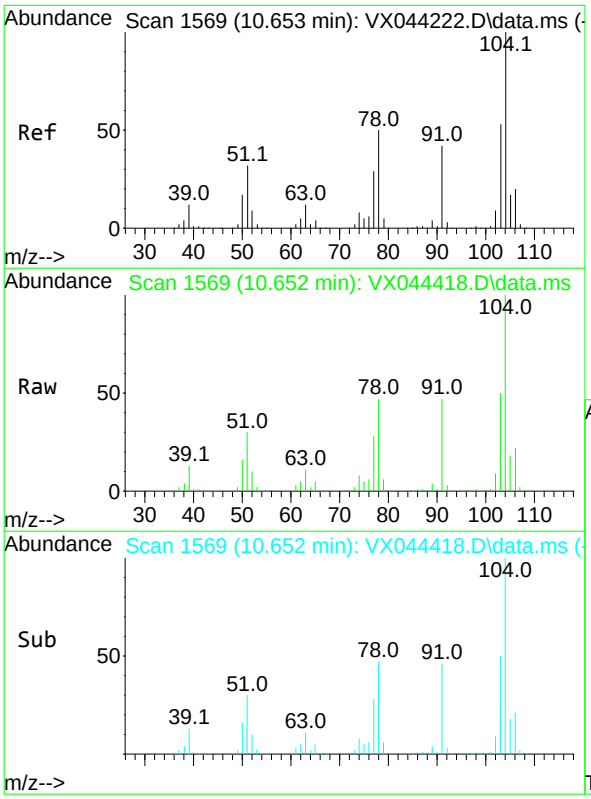
Ion	Ratio	Lower	Upper
106	100		
91	219.0	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

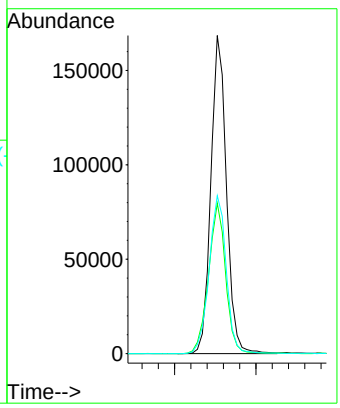
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

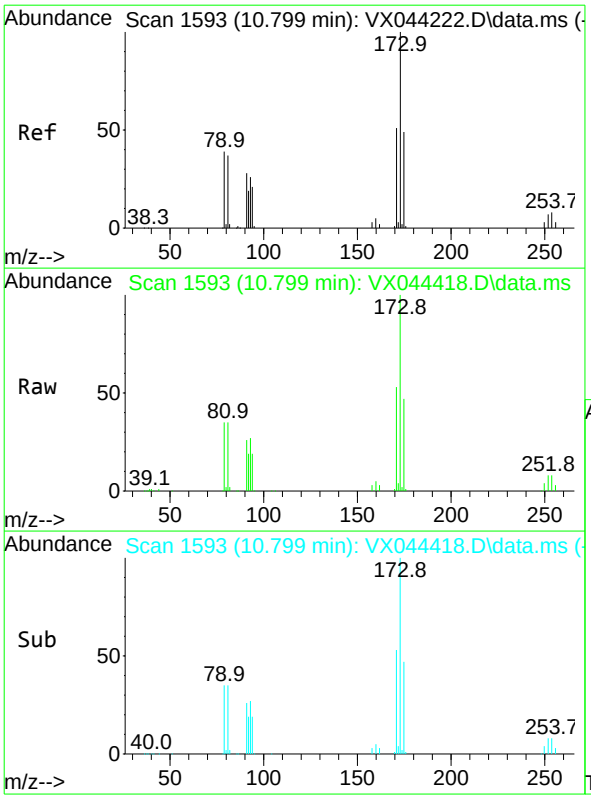


#70
Styrene
Concen: 53.973 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:104 Resp: 223981

Ion	Ratio	Lower	Upper
104	100		
78	52.1	44.6	67.0
103	54.9	45.4	68.0





#71
Bromoform
Concen: 50.932 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

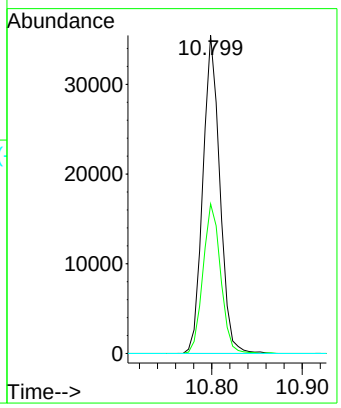
Tgt Ion:173 Resp: 46268

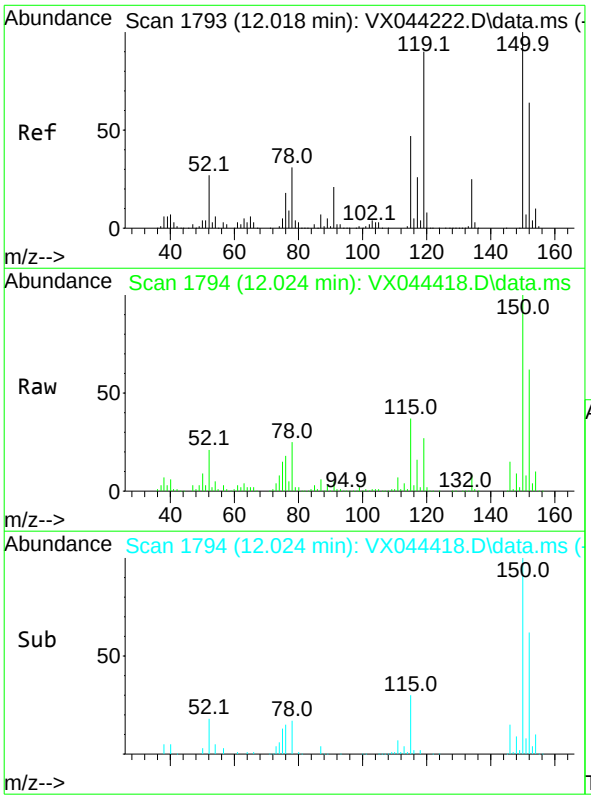
Ion	Ratio	Lower	Upper
173	100		
175	48.8	23.8	71.4
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

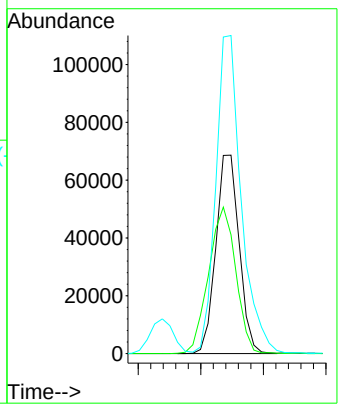


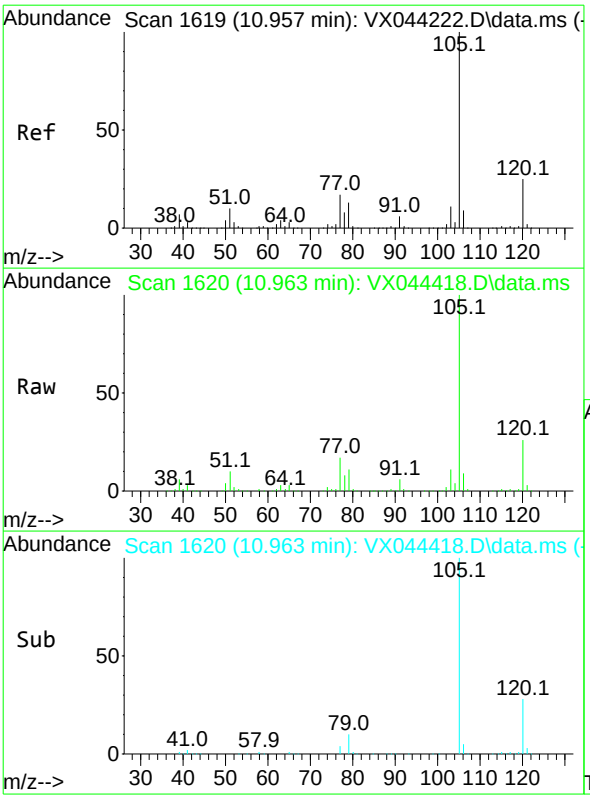


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:152 Resp: 88743

Ion	Ratio	Lower	Upper
152	100		
115	86.2	44.5	133.3
150	174.6	0.0	353.8

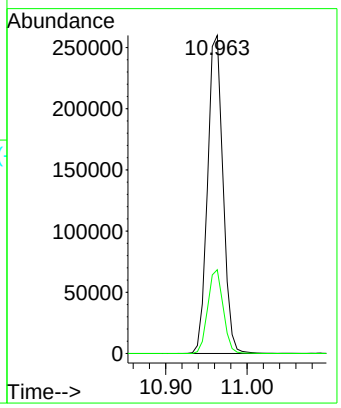




#73
Isopropylbenzene
Concen: 50.304 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:105 Resp: 341745

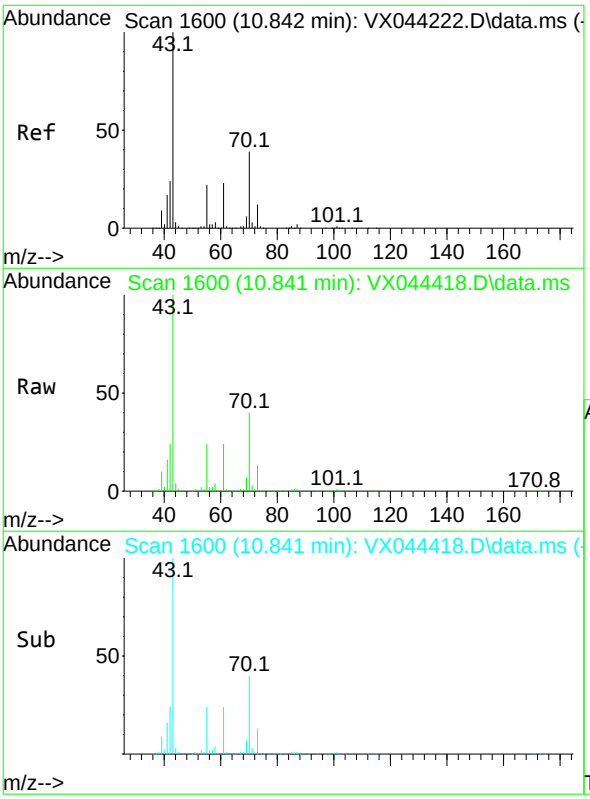
Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

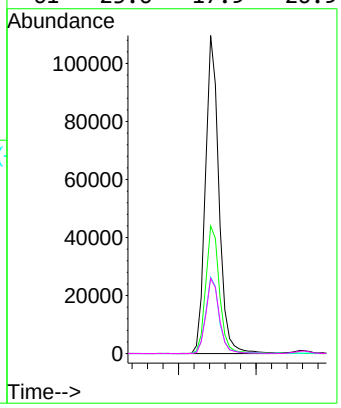
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

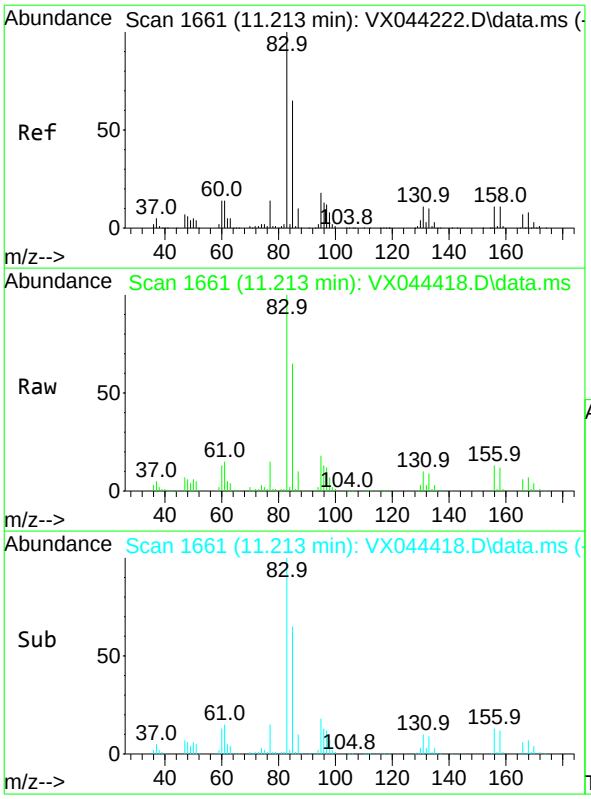


#74
N-amyl acetate
Concen: 42.337 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 43 Resp: 132925

Ion	Ratio	Lower	Upper
43	100		
70	40.7	31.9	47.9
55	24.0	17.9	26.9
61	23.6	17.9	26.9





#75
1,1,2,2-Tetrachloroethane
Concen: 50.882 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

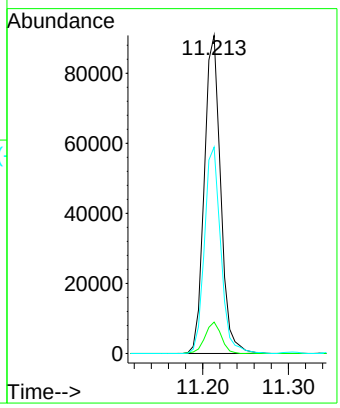
Tgt Ion: 83 Resp: 120063

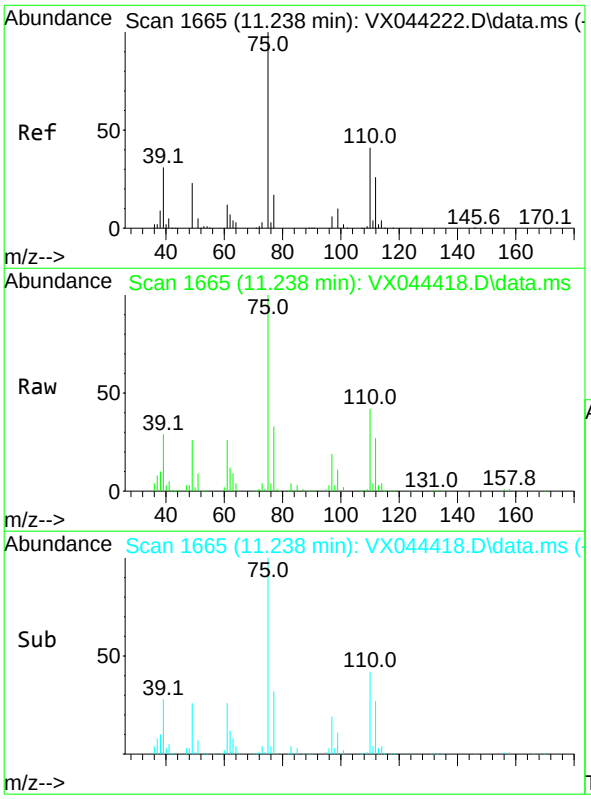
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	64.9	32.5	97.4

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

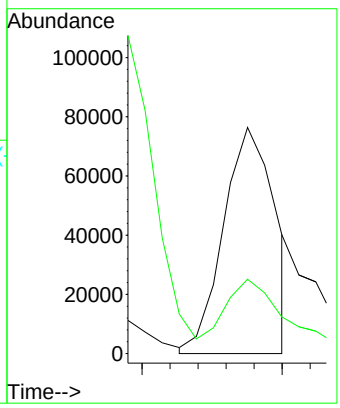


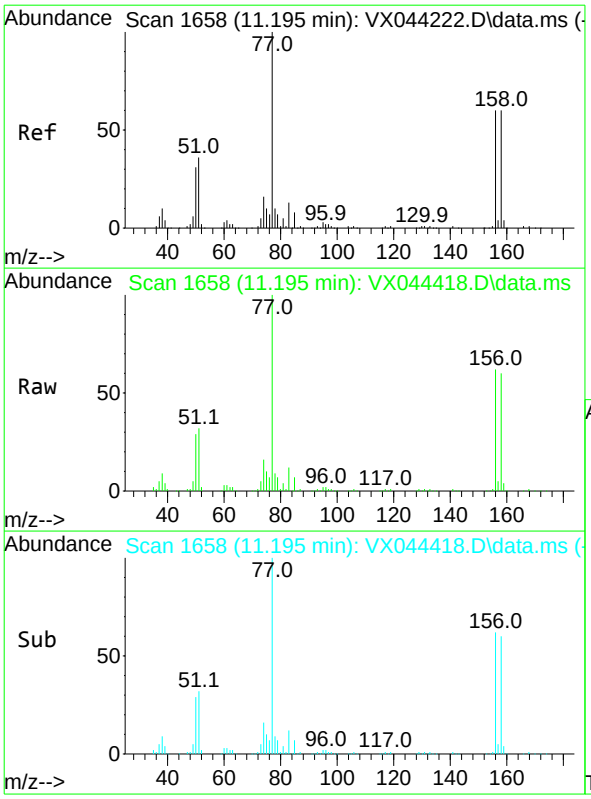


#76
1,2,3-Trichloropropane
Concen: 49.317 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 75 Resp: 97718

Ion	Ratio	Lower	Upper
75	100		
77	40.4	20.9	62.7





#77
Bromobenzene
Concen: 51.708 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

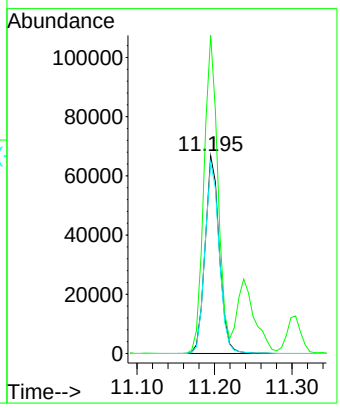
Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

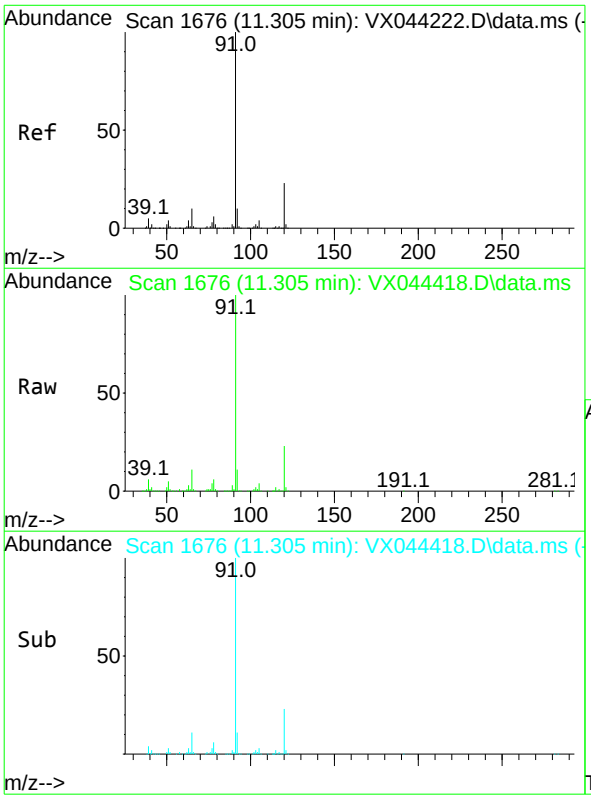
Tgt Ion:156 Resp: 85185

Ion	Ratio	Lower	Upper
156	100		
77	158.4	82.6	247.8
158	97.1	48.8	146.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

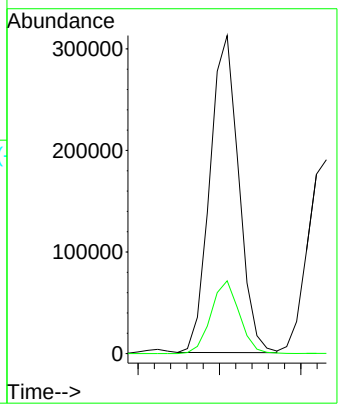


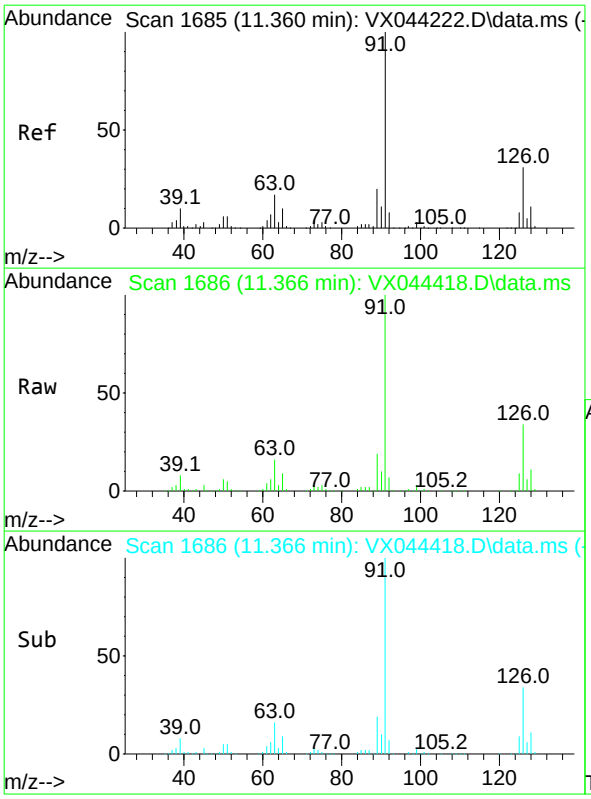


#78
n-propylbenzene
Concen: 51.244 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 91 Resp: 384780

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.0	33.0





#79
2-Chlorotoluene
Concen: 49.475 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

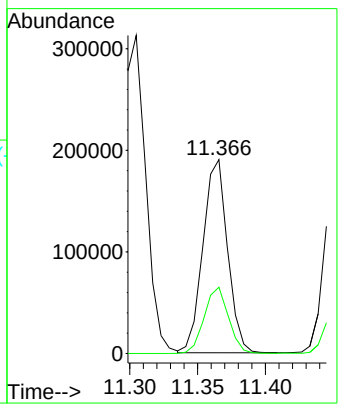
Tgt Ion: 91 Resp: 240255

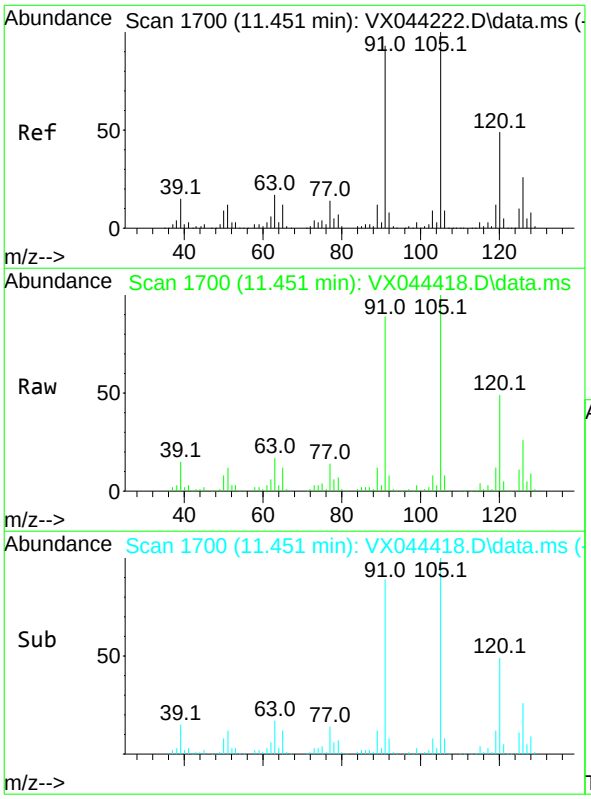
Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.4	49.1

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

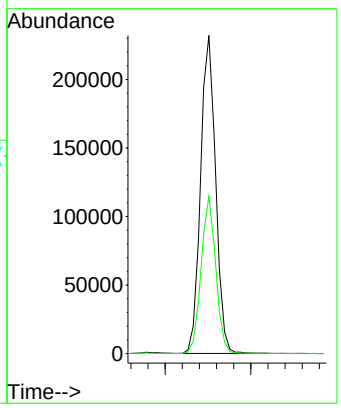


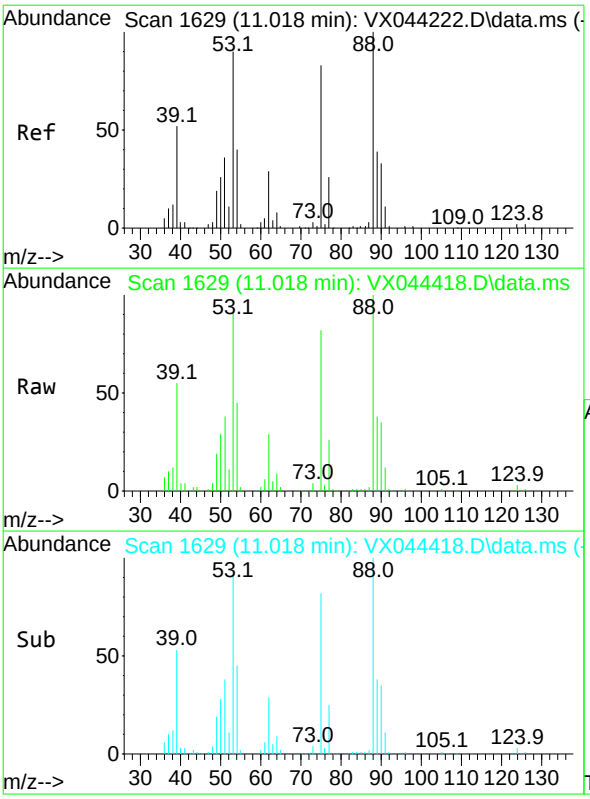


#80
1,3,5-Trimethylbenzene
Concen: 50.261 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:105 Resp: 283162

Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.8	71.4





#81
trans-1,4-Dichloro-2-butene
Concen: 38.247 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

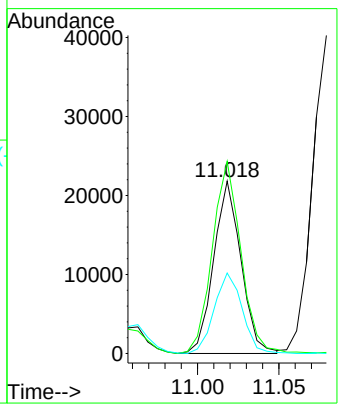
Tgt Ion: 75 Resp: 25426

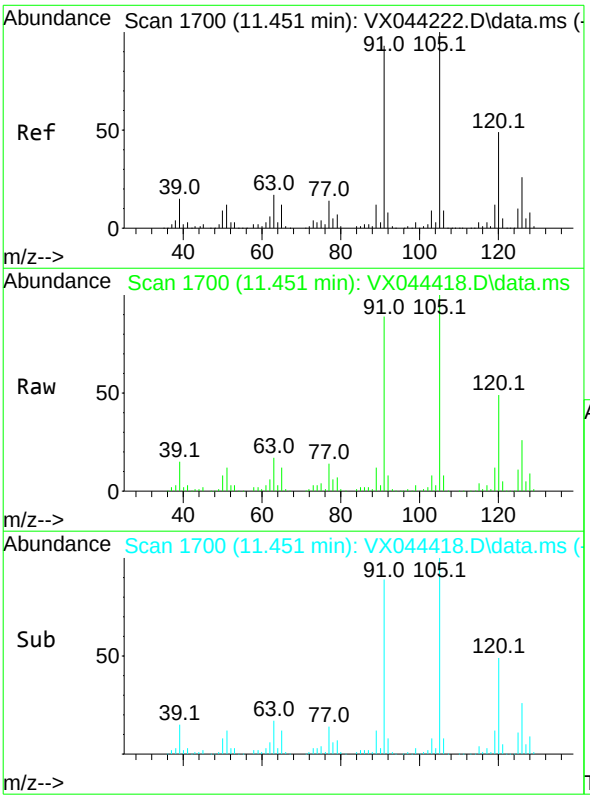
Ion	Ratio	Lower	Upper
75	100		
53	117.4	93.6	140.4
89	47.7	37.3	55.9

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

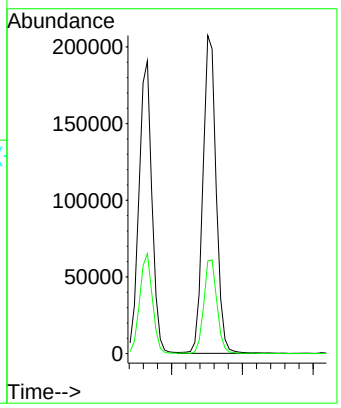


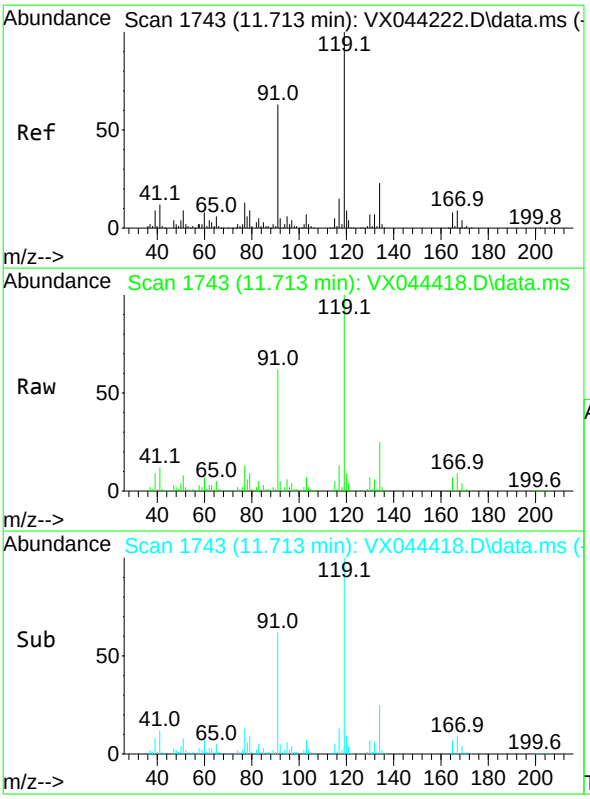


#82
4-Chlorotoluene
Concen: 50.004 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 91 Resp: 268894

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.5	43.5

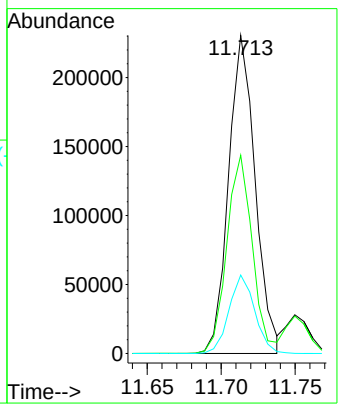




#83
tert-Butylbenzene
Concen: 51.857 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:119 Resp: 288730

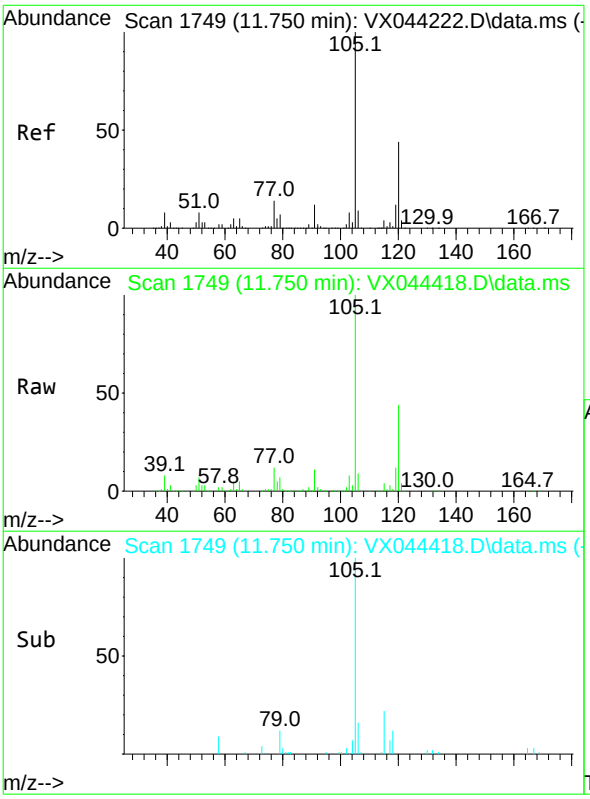
Ion	Ratio	Lower	Upper
119	100		
91	59.7	30.9	92.5
134	23.8	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

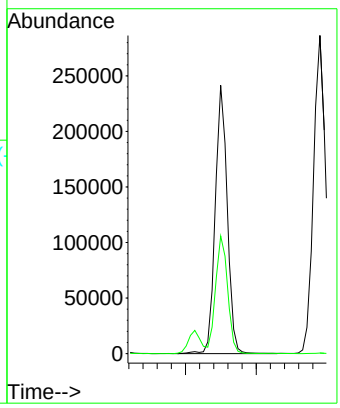
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

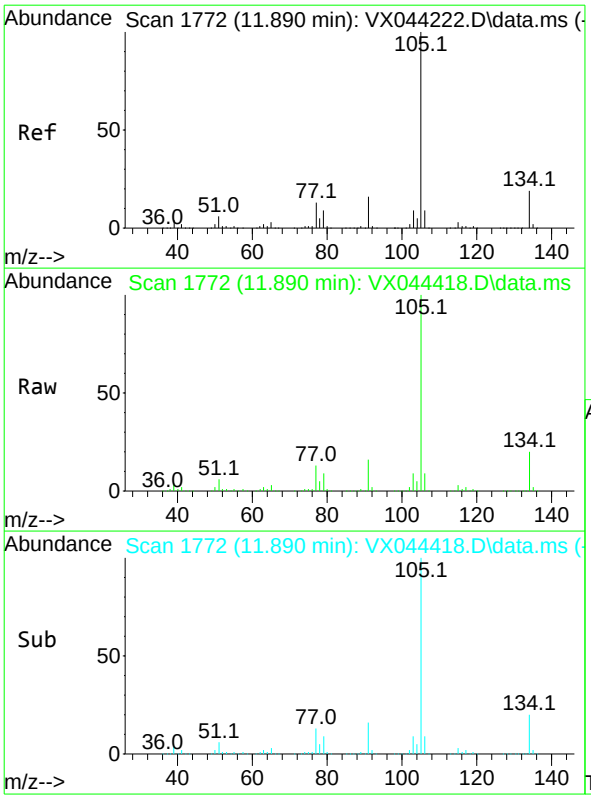


#84
1,2,4-Trimethylbenzene
Concen: 51.580 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:105 Resp: 285385

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.7	65.1





#85
sec-Butylbenzene
Concen: 50.713 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

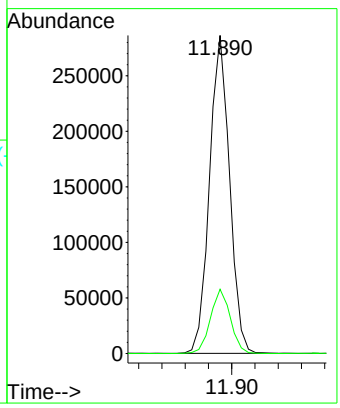
Tgt Ion:105 Resp: 342783

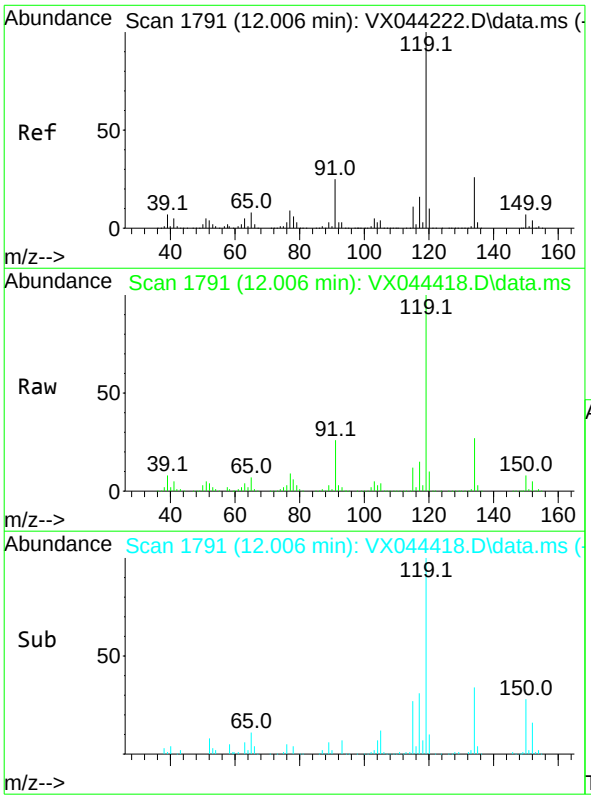
Ion	Ratio	Lower	Upper
105	100		
134	20.0	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

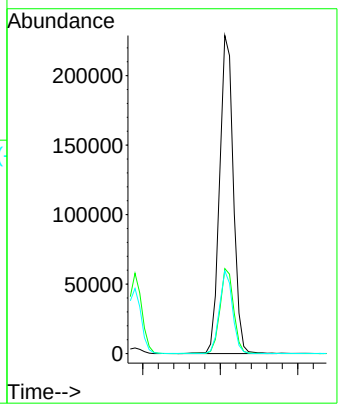


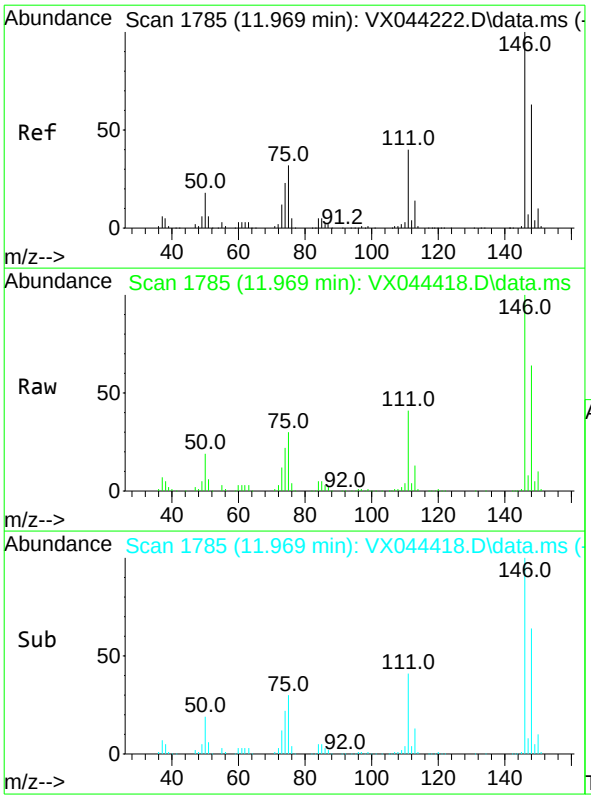


#86
p-Isopropyltoluene
Concen: 49.959 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:119 Resp: 281058

Ion	Ratio	Lower	Upper
119	100		
134	26.5	12.8	38.4
91	24.9	13.0	39.0

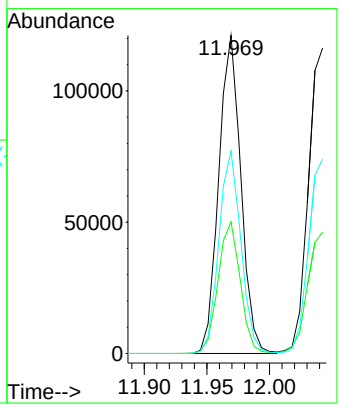




#87
1,3-Dichlorobenzene
Concen: 51.859 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:146 Resp: 149233

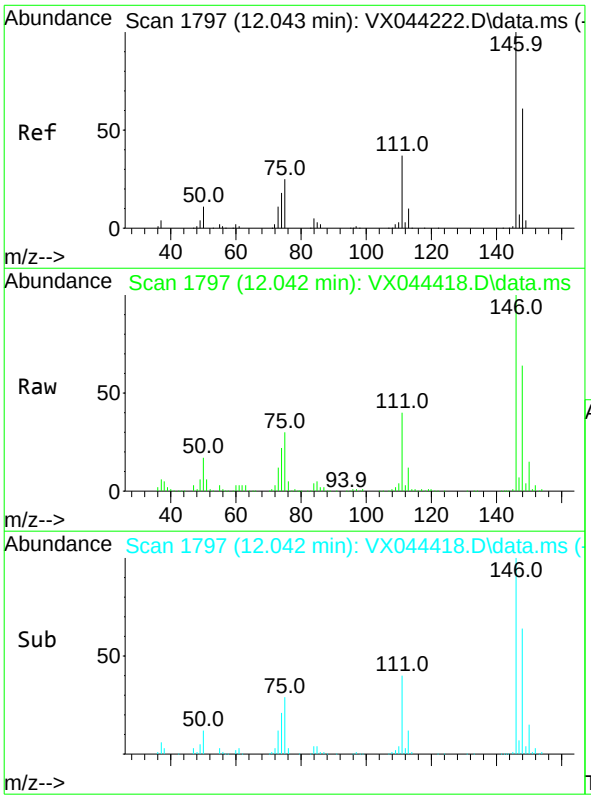
Ion	Ratio	Lower	Upper
146	100		
111	41.5	21.4	64.2
148	63.5	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

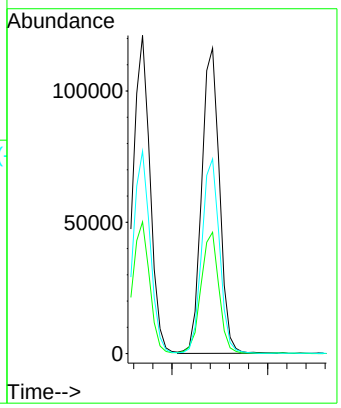
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

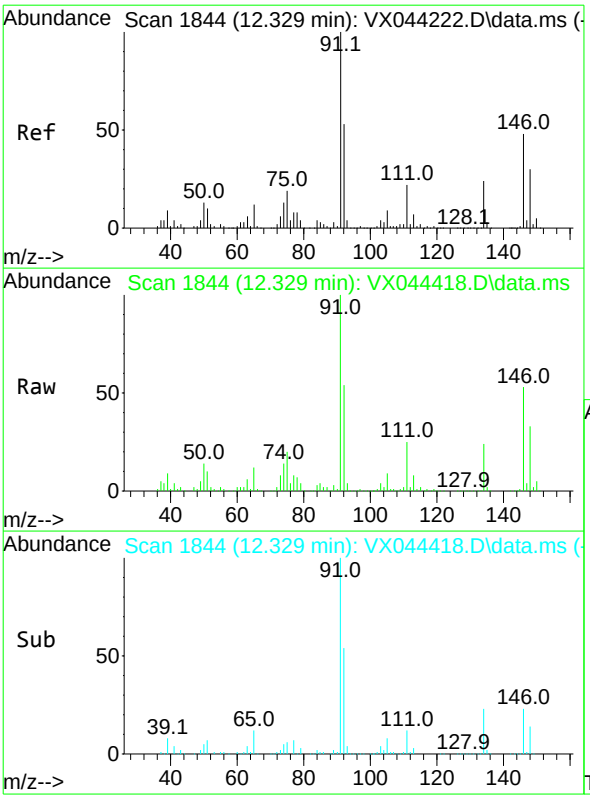


#88
1,4-Dichlorobenzene
Concen: 50.855 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:146 Resp: 150438

Ion	Ratio	Lower	Upper
146	100		
111	39.9	21.0	63.0
148	63.4	32.3	96.8





#89
n-Butylbenzene
Concen: 48.745 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

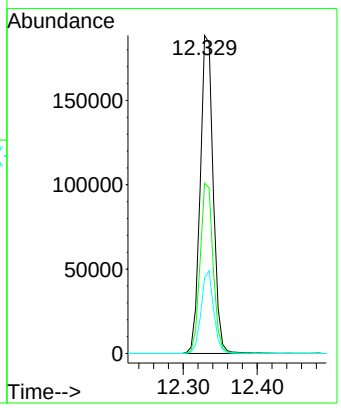
Tgt Ion: 91 Resp: 230593

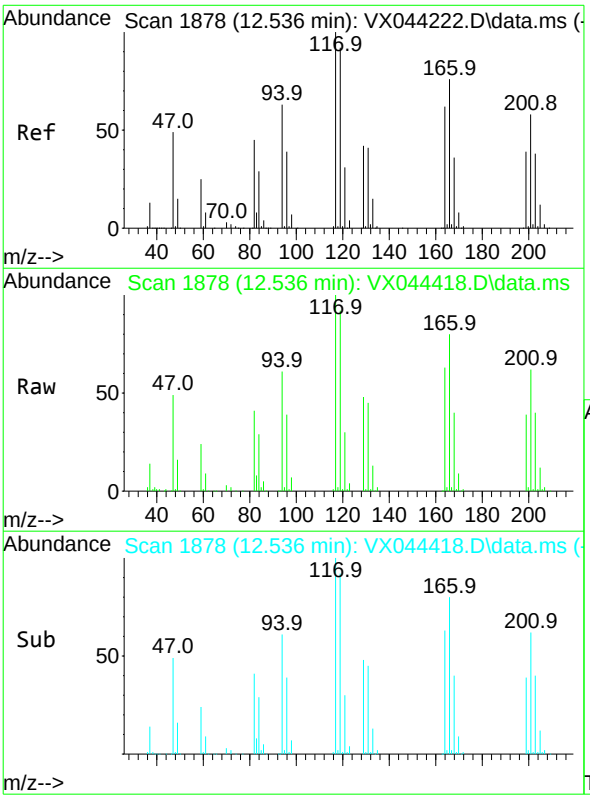
Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.6	79.7
134	25.1	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

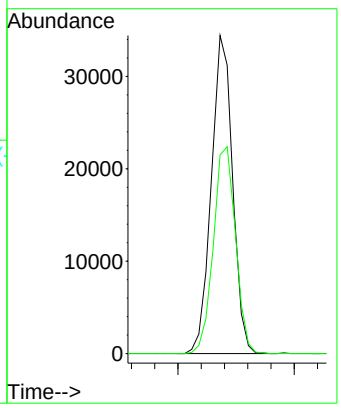


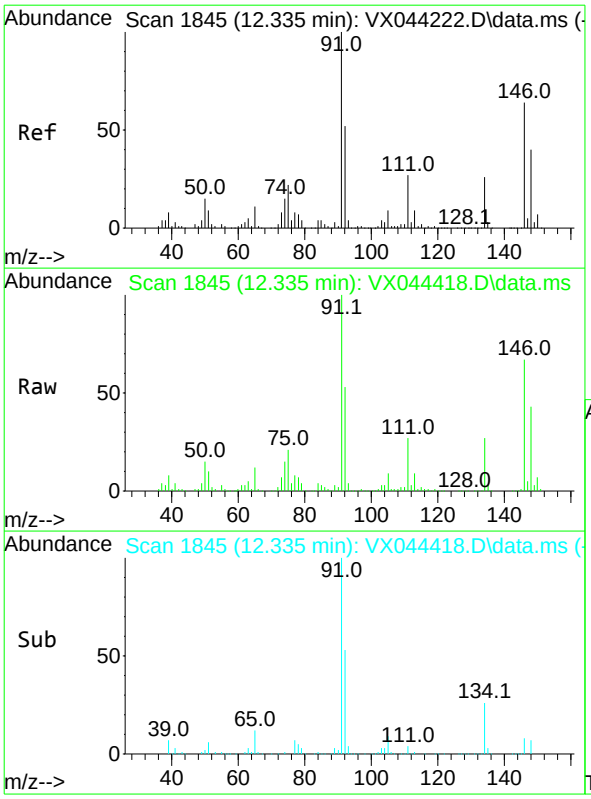


#90
Hexachloroethane
Concen: 53.222 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:117 Resp: 43707

Ion	Ratio	Lower	Upper
117	100		
201	67.8	31.4	94.2





#91
1,2-Dichlorobenzene
Concen: 50.827 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

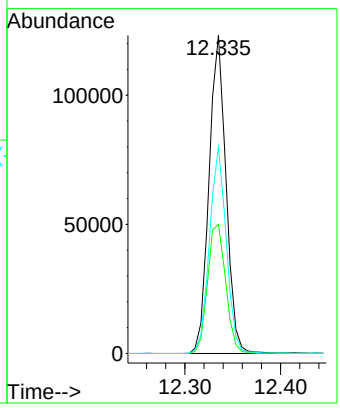
Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

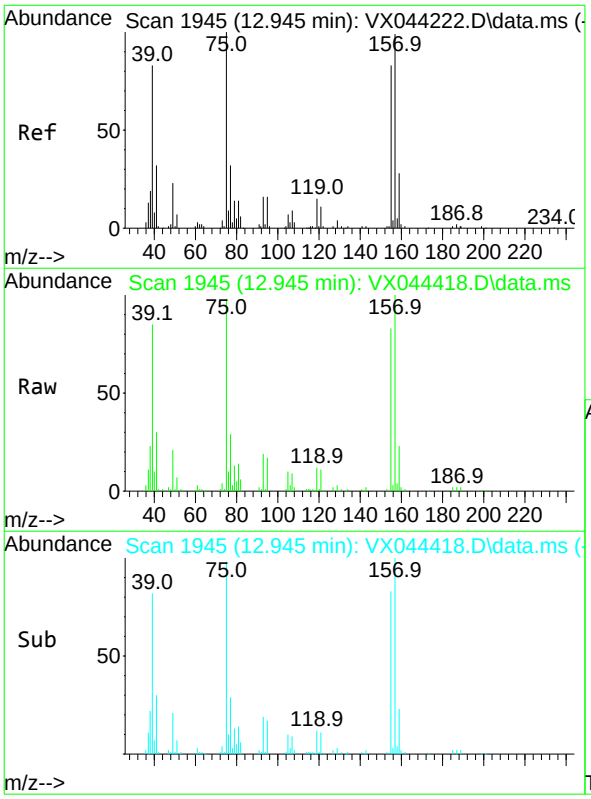
Tgt Ion:146 Resp: 151871

Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.4	64.3
148	64.5	31.6	95.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

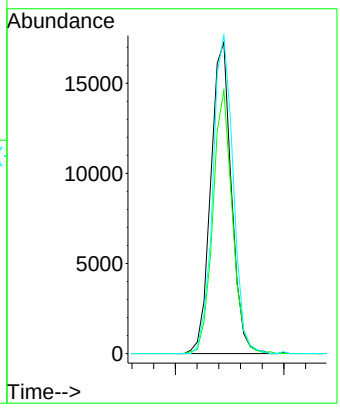


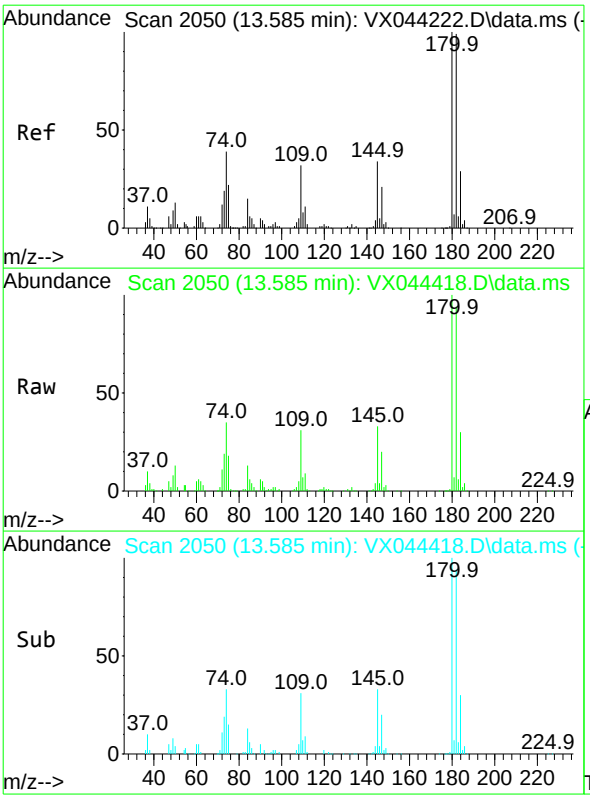


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.742 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion: 75 Resp: 22785

Ion	Ratio	Lower	Upper
75	100		
155	79.9	38.1	114.3
157	100.6	47.2	141.6





#93
1,2,4-Trichlorobenzene
Concen: 51.552 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

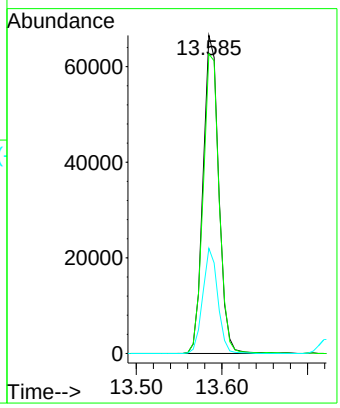
Tgt Ion:180 Resp: 84448

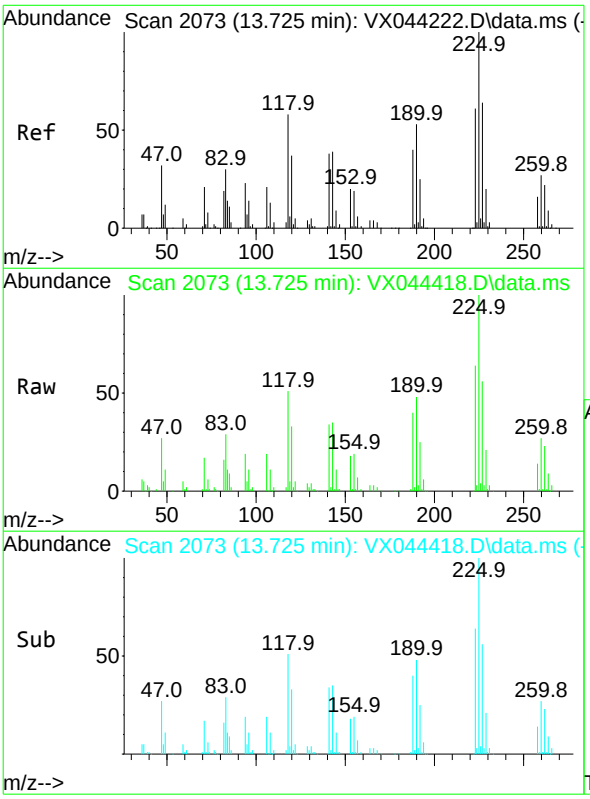
Ion	Ratio	Lower	Upper
180	100		
182	95.9	48.0	144.2
145	31.8	16.6	49.7

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

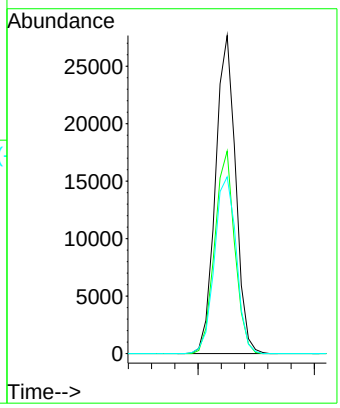


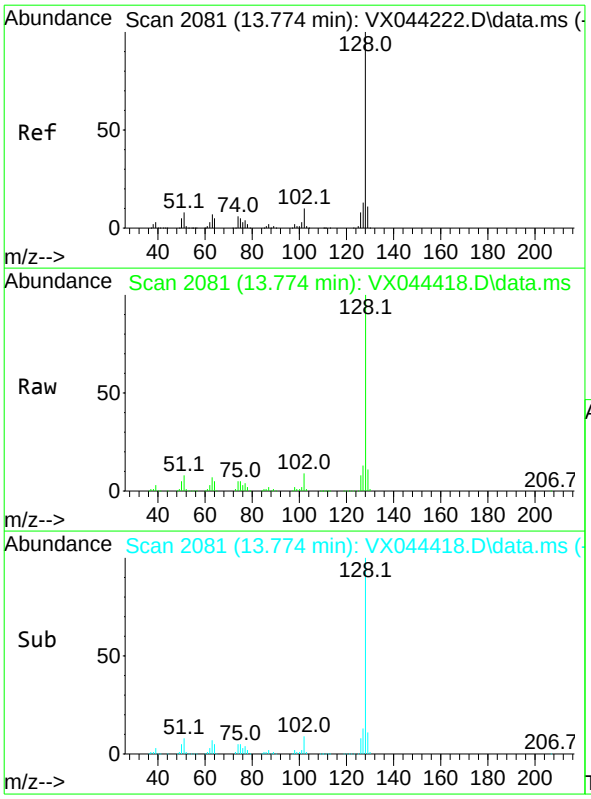


#94
Hexachlorobutadiene
Concen: 50.632 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:225 Resp: 33362

Ion	Ratio	Lower	Upper
225	100		
223	63.1	30.8	92.4
227	59.9	32.1	96.3





#95
Naphthalene
Concen: 49.962 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

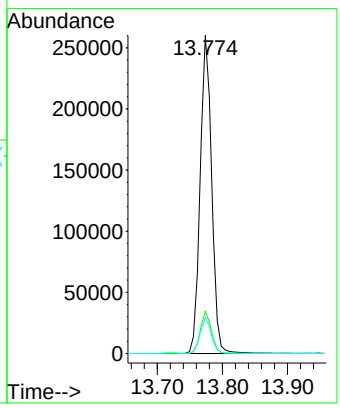
Tgt Ion:128 Resp: 319471

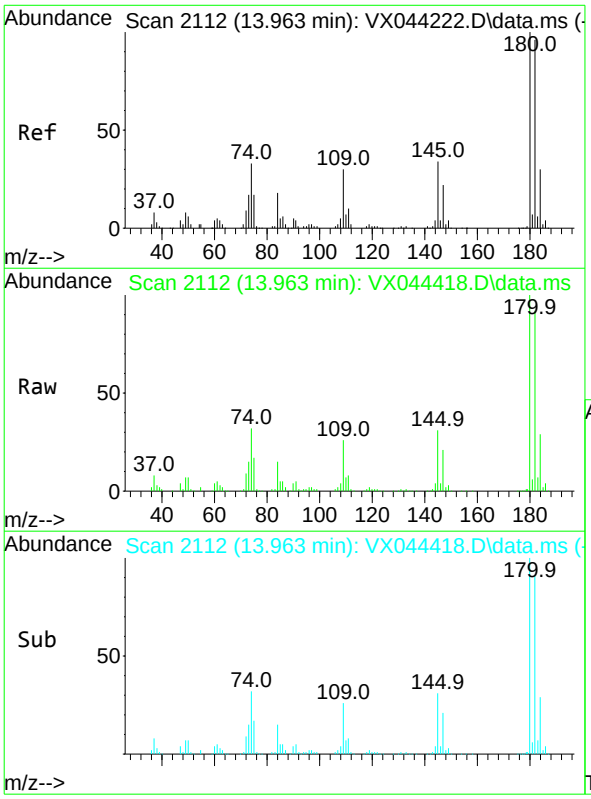
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	11.0	9.0	13.4

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

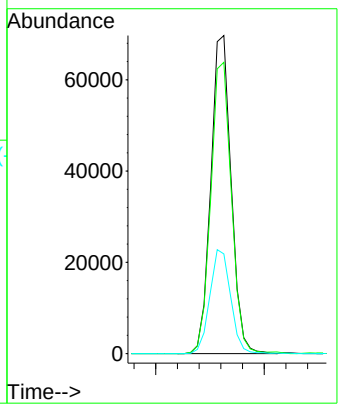




#96
1,2,3-Trichlorobenzene
Concen: 52.140 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51

Tgt Ion:180 Resp: 90592

Ion	Ratio	Lower	Upper
180	100		
182	93.0	48.0	144.0
145	33.5	17.7	53.1



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	vx121124	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX044219.D	1,1-Dichloropropene	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC001	VX044219.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC001	VX044219.D	1,4-Dichlorobenzene	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC001	VX044219.D	1,4-Dioxane	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC001	VX044219.D	Chloroethane	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC001	VX044219.D	Methacrylonitrile	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC005	VX044220.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:55:46 AM	MMDadoda	12/12/2024 2:17:07 PM	Peak Integrated by Software
VSTDICC005	VX044220.D	1,4-Dioxane	JOHN	12/12/2024 9:55:46 AM	MMDadoda	12/12/2024 2:17:07 PM	Peak Integrated by Software
VSTDICC005	VX044220.D	Tert butyl alcohol	JOHN	12/12/2024 9:55:46 AM	MMDadoda	12/12/2024 2:17:07 PM	Peak Integrated by Software
VSTDICC020	VX044221.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:56:10 AM	MMDadoda	12/12/2024 2:17:06 PM	Peak Integrated by Software
VSTDICC020	VX044221.D	1,4-Dioxane	JOHN	12/12/2024 9:56:10 AM	MMDadoda	12/12/2024 2:17:06 PM	Peak Integrated by Software
VSTDICC020	VX044221.D	Tert butyl alcohol	JOHN	12/12/2024 9:56:10 AM	MMDadoda	12/12/2024 2:17:06 PM	Peak Integrated by Software
VSTDICCC050	VX044222.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:56:15 AM	MMDadoda	12/12/2024 2:17:04 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	vx121124	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC050	VX044222.D	1,4-Dioxane	JOHN	12/12/2024 9:56:15 AM	MMDadoda	12/12/2024 2:17:04 PM	Peak Integrated by Software
VSTDICCC050	VX044222.D	Tert butyl alcohol	JOHN	12/12/2024 9:56:15 AM	MMDadoda	12/12/2024 2:17:04 PM	Peak Integrated by Software
VSTDICC100	VX044223.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:56:19 AM	MMDadoda	12/12/2024 2:17:02 PM	Peak Integrated by Software
VSTDICC100	VX044223.D	1,4-Dioxane	JOHN	12/12/2024 9:56:19 AM	MMDadoda	12/12/2024 2:17:02 PM	Peak Integrated by Software
VSTDICC150	VX044224.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:56:22 AM	MMDadoda	12/12/2024 2:17:00 PM	Peak Integrated by Software
VSTDICC150	VX044224.D	1,4-Dioxane	JOHN	12/12/2024 9:56:22 AM	MMDadoda	12/12/2024 2:17:00 PM	Peak Integrated by Software
VSTDICV050	VX044226.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:56:27 AM	MMDadoda	12/12/2024 2:16:58 PM	Peak Integrated by Software
VSTDICV050	VX044226.D	1,4-Dioxane	JOHN	12/12/2024 9:56:27 AM	MMDadoda	12/12/2024 2:16:58 PM	Peak Integrated by Software
VSTDCCC050	VX044238.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:59:41 AM	MMDadoda	12/12/2024 2:16:39 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VX121824	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX044375.D	1,2,3-Trichloropropane	JOHN	12/20/2024 10:17:30 AM	MMDadoda	12/20/2024 10:51:29 AM	Peak Integrated by Software
VSTDCCC050	VX044395.D	1,2,3-Trichloropropane	JOHN	12/20/2024 10:28:03 AM	MMDadoda	12/20/2024 10:51:17 AM	Peak Integrated by Software
VSTDCCC050	VX044397.D	1,2,3-Trichloropropane	JOHN	12/20/2024 10:28:08 AM	MMDadoda	12/20/2024 10:51:13 AM	Peak Integrated by Software
VX1218WBS02	VX044399.D	1,2,3-Trichloropropane	JOHN	12/20/2024 10:29:45 AM	MMDadoda	12/20/2024 10:51:11 AM	Peak Integrated by Software
P5317-01	VX044401.D	Chloroform	JOHN	12/20/2024 10:29:53 AM	MMDadoda	12/20/2024 10:51:06 AM	Peak Integrated by Software
P5317-19MS	VX044417.D	1,2,3-Trichloropropane	JOHN	12/20/2024 10:29:59 AM	MMDadoda	12/20/2024 10:51:04 AM	Peak Integrated by Software
P5317-20MSD	VX044418.D	1,2,3-Trichloropropane	JOHN	12/20/2024 10:30:04 AM	MMDadoda	12/20/2024 10:51:02 AM	Peak Integrated by Software
VSTDCCC050	VX044419.D	1,2,3-Trichloropropane	JOHN	12/20/2024 10:30:08 AM	MMDadoda	12/20/2024 10:51:00 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VX122024	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX044438.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:23:58 AM	MMDadoda	12/24/2024 12:27:10 AM	Peak Integrated by Software
VX1220WBS01	VX044441.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:23:59 AM	MMDadoda	12/24/2024 12:27:12 AM	Peak Integrated by Software
P5317-03	VX044452.D	Chloroform	SAM	12/23/2024 7:24:06 AM	MMDadoda	12/24/2024 12:27:16 AM	Peak Integrated by Software
VSTDCCC050	VX044464.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:15 AM	MMDadoda	12/24/2024 12:27:25 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VX122324	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX044466.D	1,2,3-Trichloropropane	JOHN	12/26/2024 9:26:02 AM	MMDadoda	12/26/2024 12:30:18 PM	Peak Integrated by Software
VX1223WBS01	VX044469.D	1,2,3-Trichloropropane	JOHN	12/26/2024 9:26:05 AM	MMDadoda	12/26/2024 12:30:00 PM	Peak Integrated by Software
P5317-21	VX044485.D	1,4-Dichlorobenzene	JOHN	12/26/2024 9:38:02 AM	MMDadoda	12/26/2024 12:29:38 PM	Peak Integrated by Software
P5317-06	VX044487.D	Chloroform	JOHN	12/26/2024 9:38:07 AM	MMDadoda	12/26/2024 12:29:36 PM	Peak Integrated by Software
P5317-25	VX044491.D	Tetrahydrofuran	JOHN	12/26/2024 9:38:23 AM	MMDadoda	12/26/2024 12:29:34 PM	Peak Integrated by Software
VSTDCCC050	VX044492.D	1,2,3-Trichloropropane	JOHN	12/26/2024 9:38:12 AM	MMDadoda	12/26/2024 12:29:32 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121124

Review By	John Carlone	Review On	12/12/2024 10:00:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/12/2024 2:17:22 PM		
SubDirectory	VX121124	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132057
Initial Calibration Stds	VP132059,VP132060,VP132061,VP132062,VP132063,VP132064
CCC	VP132059,VP132134,VP132135,VP132136,VP132137,VP132138,VP132139
Internal Standard/PEM	
ICV/I.BLK	VP132065
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044218.D	11 Dec 2024 10:13	JC/MD	Ok
2	VSTDICC001	VX044219.D	11 Dec 2024 10:41	JC/MD	Ok,M
3	VSTDICC005	VX044220.D	11 Dec 2024 11:27	JC/MD	Ok,M
4	VSTDICC020	VX044221.D	11 Dec 2024 11:50	JC/MD	Ok,M
5	VSTDICCC050	VX044222.D	11 Dec 2024 12:14	JC/MD	Ok,M
6	VSTDICC100	VX044223.D	11 Dec 2024 12:37	JC/MD	Ok,M
7	VSTDICC150	VX044224.D	11 Dec 2024 13:00	JC/MD	Ok,M
8	IBLK	VX044225.D	11 Dec 2024 13:23	JC/MD	Ok
9	VSTDICV050	VX044226.D	11 Dec 2024 13:51	JC/MD	Ok,M
10	VX1211MBL01	VX044227.D	11 Dec 2024 14:28	JC/MD	Ok
11	VX1211WBL01	VX044228.D	11 Dec 2024 14:51	JC/MD	Ok
12	VX1211WBS01	VX044229.D	11 Dec 2024 15:42	JC/MD	Ok,M
13	VX1211WBSD01	VX044230.D	11 Dec 2024 16:08	JC/MD	Ok,M
14	IBLK	VX044231.D	11 Dec 2024 16:31	JC/MD	Ok
15	P4368-07 0.2PPB	VX044232.D	11 Dec 2024 16:54	JC/MD	Ok,M
16	P4368-07 0.5PPB	VX044233.D	11 Dec 2024 17:18	JC/MD	Ok,M
17	P4368-07 0.75PPB	VX044234.D	11 Dec 2024 17:41	JC/MD	Ok,M
18	P4368-07 2.5PPB	VX044235.D	11 Dec 2024 18:04	JC/MD	Ok,M
19	P4368-08 1.0PPB	VX044236.D	11 Dec 2024 18:28	JC/MD	Ok,M
20	P4368-08 5.0PPB	VX044237.D	11 Dec 2024 18:51	JC/MD	Ok,M
21	VSTDCCC050	VX044238.D	11 Dec 2024 19:14	JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121824

Review By	John Carlone	Review On	12/20/2024 10:38:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/20/2024 10:51:52 AM		
SubDirectory	VX121824	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132210,VP132216
Initial Calibration Stds	
CCC	VP132211,VP132212,VP132217,VP132218
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044374.D	18 Dec 2024 08:15	JC/MD	Ok
2	VSTDCCC050	VX044375.D	18 Dec 2024 11:57	JC/MD	Ok,M
3	VX1218MBL01	VX044376.D	18 Dec 2024 12:25	JC/MD	Ok
4	VX1218WBL01	VX044377.D	18 Dec 2024 12:48	JC/MD	Ok
5	VX1218WBS01	VX044378.D	18 Dec 2024 13:11	JC/MD	Ok,M
6	VX1218WBSD01	VX044379.D	18 Dec 2024 13:38	JC/MD	Ok,M
7	P5261-19DL	VX044380.D	18 Dec 2024 14:01	JC/MD	Ok
8	P5281-04	VX044381.D	18 Dec 2024 14:24	JC/MD	Ok
9	P5281-08	VX044382.D	18 Dec 2024 14:48	JC/MD	Ok,M
10	P5281-09	VX044383.D	18 Dec 2024 15:11	JC/MD	Ok
11	P5280-02	VX044384.D	18 Dec 2024 15:34	JC/MD	Ok
12	P5280-06	VX044385.D	18 Dec 2024 15:58	JC/MD	Ok
13	P5280-07	VX044386.D	18 Dec 2024 16:21	JC/MD	Ok
14	P5280-08	VX044387.D	18 Dec 2024 16:45	JC/MD	Ok
15	P5281-01	VX044388.D	18 Dec 2024 17:08	JC/MD	Dilution
16	P5281-02	VX044389.D	18 Dec 2024 17:32	JC/MD	ReRun
17	P5281-03	VX044390.D	18 Dec 2024 17:55	JC/MD	Ok
18	P5281-05	VX044391.D	18 Dec 2024 18:18	JC/MD	Ok,M
19	P5281-06	VX044392.D	18 Dec 2024 18:42	JC/MD	Dilution
20	P5281-07	VX044393.D	18 Dec 2024 19:05	JC/MD	Ok,M
21	P5261-12	VX044394.D	18 Dec 2024 19:28	JC/MD	Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121824

Review By	John Carlone	Review On	12/20/2024 10:38:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/20/2024 10:51:52 AM		
SubDirectory	VX121824	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132210,VP132216
Initial Calibration Stds	
CCC	VP132211,VP132212,VP132217,VP132218
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VSTDCCC050	VX044395.D	18 Dec 2024 19:52	JC/MD	Ok,M
23	BFB	VX044396.D	18 Dec 2024 21:02	JC/MD	Ok
24	VSTDCCC050	VX044397.D	18 Dec 2024 21:48	JC/MD	Ok,M
25	VX1218WBL02	VX044398.D	18 Dec 2024 22:59	JC/MD	Ok
26	VX1218WBS02	VX044399.D	18 Dec 2024 23:22	JC/MD	Ok,M
27	VX1218WBSD02	VX044400.D	18 Dec 2024 23:45	JC/MD	Ok,M
28	P5317-01	VX044401.D	19 Dec 2024 00:13	JC/MD	Ok,M
29	P5317-02	VX044402.D	19 Dec 2024 00:37	JC/MD	Dilution
30	P5317-03	VX044403.D	19 Dec 2024 01:00	JC/MD	ReRun
31	P5317-04	VX044404.D	19 Dec 2024 01:24	JC/MD	Ok
32	P5317-05	VX044405.D	19 Dec 2024 01:47	JC/MD	Ok
33	P5317-07	VX044406.D	19 Dec 2024 02:10	JC/MD	Ok
34	P5317-08	VX044407.D	19 Dec 2024 02:34	JC/MD	Ok
35	P5317-09	VX044408.D	19 Dec 2024 02:57	JC/MD	Ok
36	P5317-10	VX044409.D	19 Dec 2024 03:21	JC/MD	Ok
37	P5317-12	VX044410.D	19 Dec 2024 03:44	JC/MD	Ok
38	P5317-13	VX044411.D	19 Dec 2024 04:07	JC/MD	Ok
39	P5317-14	VX044412.D	19 Dec 2024 04:31	JC/MD	Ok
40	P5317-15	VX044413.D	19 Dec 2024 04:54	JC/MD	Ok
41	P5317-16	VX044414.D	19 Dec 2024 05:17	JC/MD	Ok
42	P5317-23	VX044415.D	19 Dec 2024 05:41	JC/MD	Ok
43	P5317-18	VX044416.D	19 Dec 2024 06:04	JC/MD	Ok
44	P5317-19MS	VX044417.D	19 Dec 2024 06:28	JC/MD	Ok,M

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121824

Review By	John Carlone	Review On	12/20/2024 10:38:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/20/2024 10:51:52 AM		
SubDirectory	VX121824	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132210,VP132216
Initial Calibration Stds	
CCC	VP132211,VP132212,VP132217,VP132218
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	P5317-20MSD	VX044418.D	19 Dec 2024 06:51	JC/MD	Ok,M
46	VSTDCCC050	VX044419.D	19 Dec 2024 07:14	JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:24:21 AM		
Supervise By	John Carlone	Supervise On	12/23/2024 9:05:17 AM		
SubDirectory	VX122024	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132253
Initial Calibration Stds	
CCC	VP132254,VP132255
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044437.D	20 Dec 2024 08:49	JC/MD	Ok
2	VSTDCCC050	VX044438.D	20 Dec 2024 09:16	JC/MD	Ok,M
3	VX1220MBL01	VX044439.D	20 Dec 2024 10:00	JC/MD	Ok
4	VX1220WBL01	VX044440.D	20 Dec 2024 10:23	JC/MD	Ok
5	VX1220WBS01	VX044441.D	20 Dec 2024 10:46	JC/MD	Ok,M
6	VX1220WBSD01	VX044442.D	20 Dec 2024 11:16	JC/MD	Ok,M
7	P5261-12DL	VX044443.D	20 Dec 2024 11:39	JC/MD	Ok
8	P5281-01DL	VX044444.D	20 Dec 2024 12:03	JC/MD	Ok
9	P5314-01	VX044445.D	20 Dec 2024 12:26	JC/MD	Ok
10	P5314-03	VX044446.D	20 Dec 2024 12:49	JC/MD	Ok
11	P5314-02	VX044447.D	20 Dec 2024 13:13	JC/MD	Dilution
12	P5314-04	VX044448.D	20 Dec 2024 13:36	JC/MD	ReRun
13	P5314-02DL	VX044449.D	20 Dec 2024 13:59	JC/MD	Ok,M
14	P5317-02DL	VX044450.D	20 Dec 2024 14:23	JC/MD	Ok
15	P5281-02	VX044451.D	20 Dec 2024 14:46	JC/MD	Ok
16	P5317-03	VX044452.D	20 Dec 2024 15:09	JC/MD	Ok,M
17	P5356-01	VX044453.D	20 Dec 2024 15:33	JC/MD	Ok
18	P5314-04	VX044454.D	20 Dec 2024 15:56	JC/MD	Ok
19	P5281-06DL	VX044455.D	20 Dec 2024 16:19	JC/MD	Ok
20	P5330-04	VX044456.D	20 Dec 2024 16:43	JC/MD	Ok
21	PB165734TB	VX044457.D	20 Dec 2024 17:06	JC/MD	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:24:21 AM		
Supervise By	John Carlone	Supervise On	12/23/2024 9:05:17 AM		
SubDirectory	VX122024	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132253
Initial Calibration Stds	
CCC	VP132254,VP132255
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P5280-03	VX044458.D	20 Dec 2024 17:30	JC/MD	Ok
23	P5280-04MS	VX044459.D	20 Dec 2024 17:53	JC/MD	Ok,M
24	P5280-05MSD	VX044460.D	20 Dec 2024 18:16	JC/MD	Ok,M
25	P5261-13MS	VX044461.D	20 Dec 2024 18:39	JC/MD	Ok,M
26	P5261-14MSD	VX044462.D	20 Dec 2024 19:03	JC/MD	Ok,M
27	P5355-02	VX044463.D	20 Dec 2024 19:26	JC/MD	Ok
28	VSTDCCC050	VX044464.D	20 Dec 2024 19:49	JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX122324

Review By	John Carlone	Review On	12/26/2024 9:50:43 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/26/2024 12:30:48 PM		
SubDirectory	VX122324	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132281
Initial Calibration Stds	
CCC	VP132282,VP132283
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044465.D	23 Dec 2024 08:19	JC/MD	Ok
2	VSTDCCC050	VX044466.D	23 Dec 2024 08:49	JC/MD	Ok,M
3	VX1223MBL01	VX044467.D	23 Dec 2024 09:23	JC/MD	Ok
4	VX1223WBL01	VX044468.D	23 Dec 2024 09:46	JC/MD	Ok
5	VX1223WBS01	VX044469.D	23 Dec 2024 11:04	JC/MD	Ok,M
6	P5317-06	VX044470.D	23 Dec 2024 11:27	JC/MD	Not Ok
7	P5317-11	VX044471.D	23 Dec 2024 11:50	JC/MD	Not Ok
8	P5317-17	VX044472.D	23 Dec 2024 12:12	JC/MD	Not Ok
9	P5317-21	VX044473.D	23 Dec 2024 12:35	JC/MD	Not Ok
10	P5317-22	VX044474.D	23 Dec 2024 12:58	JC/MD	Not Ok
11	P5317-24	VX044475.D	23 Dec 2024 13:21	JC/MD	ReRun
12	P5317-25	VX044476.D	23 Dec 2024 13:43	JC/MD	ReRun
13	VX1223WBS02	VX044477.D	23 Dec 2024 14:06	JC/MD	Not Ok
14	P5374-03	VX044478.D	23 Dec 2024 14:29	JC/MD	Ok
15	P5374-01	VX044479.D	23 Dec 2024 14:52	JC/MD	Ok
16	P5374-02	VX044480.D	23 Dec 2024 15:15	JC/MD	Ok
17	P5374-04	VX044481.D	23 Dec 2024 15:38	JC/MD	Ok
18	P5374-05MS	VX044482.D	23 Dec 2024 16:00	JC/MD	Ok,M
19	P5374-06MSD	VX044483.D	23 Dec 2024 16:23	JC/MD	Ok,M
20	VX1223WBSD01	VX044484.D	23 Dec 2024 16:46	JC/MD	Ok,M
21	P5317-21	VX044485.D	23 Dec 2024 17:09	JC/MD	Ok,M

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX122324

Review By	John Carlone	Review On	12/26/2024 9:50:43 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/26/2024 12:30:48 PM		
SubDirectory	VX122324	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132281
Initial Calibration Stds	
CCC	VP132282,VP132283
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P5317-22	VX044486.D	23 Dec 2024 17:31	JC/MD	Ok
23	P5317-06	VX044487.D	23 Dec 2024 17:54	JC/MD	Ok,M
24	P5317-11	VX044488.D	23 Dec 2024 18:17	JC/MD	Ok
25	P5317-17	VX044489.D	23 Dec 2024 18:40	JC/MD	Ok
26	P5317-24	VX044490.D	23 Dec 2024 19:03	JC/MD	Ok
27	P5317-25	VX044491.D	23 Dec 2024 19:26	JC/MD	Ok,M
28	VSTDCCC050	VX044492.D	23 Dec 2024 19:49	JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121124

Review By	John Carlone	Review On	12/12/2024 10:00:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/12/2024 2:17:22 PM		
SubDirectory	VX121124	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132057
Initial Calibration Stds	VP132059,VP132060,VP132061,VP132062,VP132063,VP132064
CCC	VP132059,VP132134,VP132135,VP132136,VP132137,VP132138,VP132139
Internal Standard/PEM	
ICV/I.BLK	VP132065
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX044218.D	11 Dec 2024 10:13		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX044219.D	11 Dec 2024 10:41		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX044220.D	11 Dec 2024 11:27		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX044221.D	11 Dec 2024 11:50		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX044222.D	11 Dec 2024 12:14		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX044223.D	11 Dec 2024 12:37		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX044224.D	11 Dec 2024 13:00		JC/MD	Ok,M
8	IBLK	IBLK	VX044225.D	11 Dec 2024 13:23		JC/MD	Ok
9	VSTDICV050	ICVVX121124	VX044226.D	11 Dec 2024 13:51		JC/MD	Ok,M
10	VX1211MBL01	VX1211MBL01	VX044227.D	11 Dec 2024 14:28		JC/MD	Ok
11	VX1211WBL01	VX1211WBL01	VX044228.D	11 Dec 2024 14:51		JC/MD	Ok
12	VX1211WBS01	VX1211WBS01	VX044229.D	11 Dec 2024 15:42		JC/MD	Ok,M
13	VX1211WBSD01	VX1211WBSD01	VX044230.D	11 Dec 2024 16:08		JC/MD	Ok,M
14	IBLK	IBLK	VX044231.D	11 Dec 2024 16:31		JC/MD	Ok
15	P4368-07 0.2PPB	LOD-MDL-WATER-01-(	VX044232.D	11 Dec 2024 16:54		JC/MD	Ok,M
16	P4368-07 0.5PPB	LOD-MDL-WATER-01-(	VX044233.D	11 Dec 2024 17:18		JC/MD	Ok,M
17	P4368-07 0.75PPB	LOD-MDL-WATER-01-(	VX044234.D	11 Dec 2024 17:41		JC/MD	Ok,M
18	P4368-07 2.5PPB	LOD-MDL-WATER-01-(	VX044235.D	11 Dec 2024 18:04		JC/MD	Ok,M

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121124

Review By	John Carlone	Review On	12/12/2024 10:00:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/12/2024 2:17:22 PM		
SubDirectory	VX121124	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132057
Initial Calibration Stds	VP132059,VP132060,VP132061,VP132062,VP132063,VP132064
CCC	VP132059,VP132134,VP132135,VP132136,VP132137,VP132138,VP132139
Internal Standard/PEM	
ICV/I.BLK	VP132065
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4368-08 1.0PPB	LOQ-WATER-02-QT4-2	VX044236.D	11 Dec 2024 18:28		JC/MD	Ok,M
20	P4368-08 5.0PPB	LOQ-WATER-02-QT4-2	VX044237.D	11 Dec 2024 18:51		JC/MD	Ok,M
21	VSTDCCC050	VSTDCCC050EC	VX044238.D	11 Dec 2024 19:14		JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121824

Review By	John Carlone	Review On	12/20/2024 10:38:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/20/2024 10:51:52 AM		
SubDirectory	VX121824	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132210,VP132216
Initial Calibration Stds	
CCC	VP132211,VP132212,VP132217,VP132218
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX044374.D	18 Dec 2024 08:15		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX044375.D	18 Dec 2024 11:57	V13516	JC/MD	Ok,M
3	VX1218MBL01	VX1218MBL01	VX044376.D	18 Dec 2024 12:25		JC/MD	Ok
4	VX1218WBL01	VX1218WBL01	VX044377.D	18 Dec 2024 12:48		JC/MD	Ok
5	VX1218WBS01	VX1218WBS01	VX044378.D	18 Dec 2024 13:11		JC/MD	Ok,M
6	VX1218WBSD01	VX1218WBSD01	VX044379.D	18 Dec 2024 13:38		JC/MD	Ok,M
7	P5261-19DL	RE120D3-20241210DL	VX044380.D	18 Dec 2024 14:01	vial B pH<2	JC/MD	Ok
8	P5281-04	TT101D2-20241212	VX044381.D	18 Dec 2024 14:24	vial A pH<2	JC/MD	Ok
9	P5281-08	FB02-20241213	VX044382.D	18 Dec 2024 14:48	vial A pH<2 FB	JC/MD	Ok,M
10	P5281-09	TB	VX044383.D	18 Dec 2024 15:11	vial A pH<2 TB	JC/MD	Ok
11	P5280-02	BPOW6-8-20241212	VX044384.D	18 Dec 2024 15:34	vial A pH<2	JC/MD	Ok
12	P5280-06	BPOW6-9-20241212	VX044385.D	18 Dec 2024 15:58	vial A pH<2	JC/MD	Ok
13	P5280-07	BPOW6-10-20241212	VX044386.D	18 Dec 2024 16:21	vial A pH<2	JC/MD	Ok
14	P5280-08	DUP-03-20241212	VX044387.D	18 Dec 2024 16:45	vial A pH<2	JC/MD	Ok
15	P5281-01	RE114D1-20241212	VX044388.D	18 Dec 2024 17:08	vial A pH<2 Need 10X	JC/MD	Dilution
16	P5281-02	BPOW1-7-20241212	VX044389.D	18 Dec 2024 17:32	vial A pH<2 E Flag in Previous Sample	JC/MD	ReRun
17	P5281-03	BPOW1-8-20241212	VX044390.D	18 Dec 2024 17:55	vial A pH<2	JC/MD	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121824

Review By	John Carlone	Review On	12/20/2024 10:38:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/20/2024 10:51:52 AM		
SubDirectory	VX121824	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132210,VP132216
Initial Calibration Stds	
CCC	VP132211,VP132212,VP132217,VP132218
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P5281-05	RE117D1-20241213	VX044391.D	18 Dec 2024 18:18	vial A pH<2	JC/MD	Ok,M
19	P5281-06	RE115D1-20241213	VX044392.D	18 Dec 2024 18:42	vial A pH<2 Need 20X	JC/MD	Dilution
20	P5281-07	TT189D2-20241213	VX044393.D	18 Dec 2024 19:05	vial A pH<2	JC/MD	Ok,M
21	P5261-12	RE125D1-20241210	VX044394.D	18 Dec 2024 19:28	vial A pH<2 Need 5X	JC/MD	Dilution
22	VSTDCCC050	VSTDCCC050EC	VX044395.D	18 Dec 2024 19:52		JC/MD	Ok,M
23	BFB	BFB	VX044396.D	18 Dec 2024 21:02		JC/MD	Ok
24	VSTDCCC050	VSTDCCC050	VX044397.D	18 Dec 2024 21:48		JC/MD	Ok,M
25	VX1218WBL02	VX1218WBL02	VX044398.D	18 Dec 2024 22:59		JC/MD	Ok
26	VX1218WBS02	VX1218WBS02	VX044399.D	18 Dec 2024 23:22		JC/MD	Ok,M
27	VX1218WBSD02	VX1218WBSD02	VX044400.D	18 Dec 2024 23:45		JC/MD	Ok,M
28	P5317-01	RE114D2-20241216	VX044401.D	19 Dec 2024 00:13	vial A pH<2	JC/MD	Ok,M
29	P5317-02	RW4-20241216	VX044402.D	19 Dec 2024 00:37	vial A pH<2 Need 20X	JC/MD	Dilution
30	P5317-03	TT191D1-20241216	VX044403.D	19 Dec 2024 01:00	vial A pH<2 E Flag in Previous Sample	JC/MD	ReRun
31	P5317-04	TT191D2-20241216	VX044404.D	19 Dec 2024 01:24	vial A pH<2	JC/MD	Ok
32	P5317-05	TT163S1-20241216	VX044405.D	19 Dec 2024 01:47	vial A pH<2	JC/MD	Ok
33	P5317-07	RW8-MW01S-2024121	VX044406.D	19 Dec 2024 02:10	vial A pH<2	JC/MD	Ok
34	P5317-08	RW8-MW01D1-202412	VX044407.D	19 Dec 2024 02:34	vial A pH<2	JC/MD	Ok
35	P5317-09	TT158S1-20241217	VX044408.D	19 Dec 2024 02:57	vial A pH<2	JC/MD	Ok
36	P5317-10	TT158I1-20241217	VX044409.D	19 Dec 2024 03:21	vial A pH<2	JC/MD	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121824

Review By	John Carlone	Review On	12/20/2024 10:38:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/20/2024 10:51:52 AM		
SubDirectory	VX121824	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132210,VP132216
Initial Calibration Stds	
CCC	VP132211,VP132212,VP132217,VP132218
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	P5317-12	TT172S1-20241217	VX044410.D	19 Dec 2024 03:44	vial A pH<2	JC/MD	Ok
38	P5317-13	RW9-MW01S-2024121	VX044411.D	19 Dec 2024 04:07	vial A pH<2	JC/MD	Ok
39	P5317-14	RW9-MW01D1-202412	VX044412.D	19 Dec 2024 04:31	vial A pH<2	JC/MD	Ok
40	P5317-15	RW9-MW01D2-202412	VX044413.D	19 Dec 2024 04:54	vial A pH<2	JC/MD	Ok
41	P5317-16	RW9-MW01D3-202412	VX044414.D	19 Dec 2024 05:17	vial A pH<2	JC/MD	Ok
42	P5317-23	TB	VX044415.D	19 Dec 2024 05:41	vial A pH<2 TB	JC/MD	Ok
43	P5317-18	RE132D5-20241217	VX044416.D	19 Dec 2024 06:04	vial A pH<2	JC/MD	Ok
44	P5317-19MS	RE132D5-20241217MS	VX044417.D	19 Dec 2024 06:28	vial A pH<2	JC/MD	Ok,M
45	P5317-20MSD	RE132D5-20241217MS	VX044418.D	19 Dec 2024 06:51	vial A pH<2	JC/MD	Ok,M
46	VSTDCCC050	VSTDCCC050EC	VX044419.D	19 Dec 2024 07:14		JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:24:21 AM		
Supervise By	John Carlone	Supervise On	12/23/2024 9:05:17 AM		
SubDirectory	VX122024	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132253
Initial Calibration Stds	
CCC	VP132254,VP132255
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX044437.D	20 Dec 2024 08:49		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX044438.D	20 Dec 2024 09:16	V13516	JC/MD	Ok,M
3	VX1220MBL01	VX1220MBL01	VX044439.D	20 Dec 2024 10:00		JC/MD	Ok
4	VX1220WBL01	VX1220WBL01	VX044440.D	20 Dec 2024 10:23		JC/MD	Ok
5	VX1220WBS01	VX1220WBS01	VX044441.D	20 Dec 2024 10:46		JC/MD	Ok,M
6	VX1220WBSD01	VX1220WBSD01	VX044442.D	20 Dec 2024 11:16		JC/MD	Ok,M
7	P5261-12DL	RE125D1-20241210DL	VX044443.D	20 Dec 2024 11:39	vial B pH<2	JC/MD	Ok
8	P5281-01DL	RE114D1-20241212DL	VX044444.D	20 Dec 2024 12:03	vial B pH<2	JC/MD	Ok
9	P5314-01	BP-VPB-190A-TB-2024	VX044445.D	20 Dec 2024 12:26	vial A pH<2	JC/MD	Ok
10	P5314-03	BP-VPB-190A-GW-698	VX044446.D	20 Dec 2024 12:49	vial A +B pH<2	JC/MD	Ok
11	P5314-02	BP-VPB-190A-GW-678	VX044447.D	20 Dec 2024 13:13	vial A pH<2 Needs 5x dilution	JC/MD	Dilution
12	P5314-04	VPB190A-HYD-202412	VX044448.D	20 Dec 2024 13:36	vial A pH<2 Carryover	JC/MD	ReRun
13	P5314-02DL	BP-VPB-190A-GW-678	VX044449.D	20 Dec 2024 13:59	vial B pH<2	JC/MD	Ok,M
14	P5317-02DL	RW4-20241216DL	VX044450.D	20 Dec 2024 14:23	vial B pH<2	JC/MD	Ok
15	P5281-02	BPOW1-7-20241212	VX044451.D	20 Dec 2024 14:46	vial B pH<2	JC/MD	Ok
16	P5317-03	TT191D1-20241216	VX044452.D	20 Dec 2024 15:09	vial B pH<2	JC/MD	Ok,M
17	P5356-01	STAND-PIPE	VX044453.D	20 Dec 2024 15:33	vial A pH<2	JC/MD	Ok
18	P5314-04	VPB190A-HYD-202412	VX044454.D	20 Dec 2024 15:56	vial B pH<2	JC/MD	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:24:21 AM		
Supervise By	John Carlone	Supervise On	12/23/2024 9:05:17 AM		
SubDirectory	VX122024	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132253
Initial Calibration Stds	
CCC	VP132254,VP132255
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P5281-06DL	RE115D1-20241213DL	VX044455.D	20 Dec 2024 16:19	vial B pH<2	JC/MD	Ok
20	P5330-04	TP-5	VX044456.D	20 Dec 2024 16:43	vial A pH#5.0	JC/MD	Ok
21	PB165734TB	PB165734TB	VX044457.D	20 Dec 2024 17:06		JC/MD	Ok
22	P5280-03	BPOW6-11-20241212	VX044458.D	20 Dec 2024 17:30	vial A pH<2	JC/MD	Ok
23	P5280-04MS	BPOW6-11-20241212M	VX044459.D	20 Dec 2024 17:53	vial A pH<2	JC/MD	Ok,M
24	P5280-05MSD	BPOW6-11-20241212M	VX044460.D	20 Dec 2024 18:16	vial A pH<2	JC/MD	Ok,M
25	P5261-13MS	RE125D1-20241210MS	VX044461.D	20 Dec 2024 18:39	vial A pH<2	JC/MD	Ok,M
26	P5261-14MSD	RE125D1-20241210MS	VX044462.D	20 Dec 2024 19:03	vial A pH<2	JC/MD	Ok,M
27	P5355-02	RBR251688	VX044463.D	20 Dec 2024 19:26	vial A pH#5.0	JC/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VX044464.D	20 Dec 2024 19:49		JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX122324

Review By	John Carlone	Review On	12/26/2024 9:50:43 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/26/2024 12:30:48 PM		
SubDirectory	VX122324	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132281
Initial Calibration Stds	
CCC	VP132282,VP132283
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX044465.D	23 Dec 2024 08:19		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX044466.D	23 Dec 2024 08:49	V13516	JC/MD	Ok,M
3	VX1223MBL01	VX1223MBL01	VX044467.D	23 Dec 2024 09:23		JC/MD	Ok
4	VX1223WBL01	VX1223WBL01	VX044468.D	23 Dec 2024 09:46		JC/MD	Ok
5	VX1223WBS01	VX1223WBS01	VX044469.D	23 Dec 2024 11:04		JC/MD	Ok,M
6	P5317-06	DUP-04-20241216	VX044470.D	23 Dec 2024 11:27	Need straight run; Surrogate fail	JC/MD	Not Ok
7	P5317-11	DUP-05-20241217	VX044471.D	23 Dec 2024 11:50	Need straight run; Surrogate fail	JC/MD	Not Ok
8	P5317-17	DUP-06-20241217	VX044472.D	23 Dec 2024 12:12	Need straight run; Surrogate fail	JC/MD	Not Ok
9	P5317-21	RE132D6-20241217	VX044473.D	23 Dec 2024 12:35	Run @ lower dilution; Surrogate fail	JC/MD	Not Ok
10	P5317-22	RE132D7-20241217	VX044474.D	23 Dec 2024 12:58	Run @ lower dilution; Surrogate fail	JC/MD	Not Ok
11	P5317-24	RW8-MW01D2-202412	VX044475.D	23 Dec 2024 13:21	vial A pH<2 Surrogate fail	JC/MD	ReRun
12	P5317-25	RW8-MW01D3-202412	VX044476.D	23 Dec 2024 13:43	vial A pH<2 Surrogate fail	JC/MD	ReRun
13	VX1223WBS02	VX1223WBS02	VX044477.D	23 Dec 2024 14:06	Surrogate fail	JC/MD	Not Ok
14	P5374-03	BP-VPB-190A-GW-718	VX044478.D	23 Dec 2024 14:29	vial A pH<2	JC/MD	Ok
15	P5374-01	BP-VPB-190A-TB-2024	VX044479.D	23 Dec 2024 14:52	vial A pH<2	JC/MD	Ok
16	P5374-02	BP-VPB-190A-EB-2024	VX044480.D	23 Dec 2024 15:15	vial A pH<2	JC/MD	Ok
17	P5374-04	BP-VPB-190A-GW-748	VX044481.D	23 Dec 2024 15:38	vial A pH<2	JC/MD	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX122324

Review By	John Carlone	Review On	12/26/2024 9:50:43 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/26/2024 12:30:48 PM		
SubDirectory	VX122324	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132281
Initial Calibration Stds	
CCC	VP132282,VP132283
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P5374-05MS	BP-VPB-190A-GW-745	VX044482.D	23 Dec 2024 16:00	vial A pH<2	JC/MD	Ok,M
19	P5374-06MSD	BP-VPB-190A-GW-745	VX044483.D	23 Dec 2024 16:23	vial A pH<2	JC/MD	Ok,M
20	VX1223WBSD01	VX1223WBSD01	VX044484.D	23 Dec 2024 16:46		JC/MD	Ok,M
21	P5317-21	RE132D6-20241217	VX044485.D	23 Dec 2024 17:09	vial A pH<2	JC/MD	Ok,M
22	P5317-22	RE132D7-20241217	VX044486.D	23 Dec 2024 17:31	vial A pH<2	JC/MD	Ok
23	P5317-06	DUP-04-20241216	VX044487.D	23 Dec 2024 17:54	vial A pH<2	JC/MD	Ok,M
24	P5317-11	DUP-05-20241217	VX044488.D	23 Dec 2024 18:17	vial A pH<2	JC/MD	Ok
25	P5317-17	DUP-06-20241217	VX044489.D	23 Dec 2024 18:40	vial A pH<2	JC/MD	Ok
26	P5317-24	RW8-MW01D2-202412	VX044490.D	23 Dec 2024 19:03	vial B pH<2	JC/MD	Ok
27	P5317-25	RW8-MW01D3-202412	VX044491.D	23 Dec 2024 19:26	vial B pH<2	JC/MD	Ok,M
28	VSTDCCC050	VSTDCCC050EC	VX044492.D	23 Dec 2024 19:49		JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : P5317

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VX121824,VX122024,VX122324,

Standard ID :
VP130430,VP131746,VP131767,VP131987,VP132005,VP132035,VP132096,VP132210,VP132211,VP132212,VP132216,VP132217,VP132218,VP132253,VP132254,VP132255,VP132281,VP132282,VP132283,

Chemical ID :
V13391,V13445,V13457,V13460,V13465,V13466,V13707,V13806,V14020,V14021,V14105,V14106,V14145,V14152,V14154,V14173,V14174,V14192,V14194,V14201,V14289,V14434,V14437,V14614,V14630,V14631,V14632,V14633,V14650,V14651,V14652,W3112,

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP130430	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/26/2024

FROM 0.40000ml of V13707 + 24.60000ml of V14145 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP131746	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/23/2024

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/27/2024

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP131987	12/06/2024	01/05/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 1.00000ml of V14652 + 1.50000ml of V14650 + 1.50000ml of V14651 + 21.00000ml of V14152 = Final Quantity: 25.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP132005	12/09/2024	01/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 0.40000ml of V13445 + 1.00000ml of V13806 + 1.00000ml of V14020 + 1.00000ml of V14021 + 1.00000ml of V14105 + 1.00000ml of V14106 + 1.00000ml of V14173 + 1.00000ml of V14174 + 1.00000ml of V14194 + 1.00000ml of V14434 + 1.00000ml of V14437 + 1.50000ml of V14192 + 1.50000ml of V14201 + 10.60000ml of V14152 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final Quantity: 50.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP132210	12/18/2024	12/19/2024	John Carlone	None	None	Mahesh Dadoda 12/24/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP132211	12/18/2024	12/19/2024	John Carlone	None	None	Mahesh Dadoda 12/24/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP132212	12/18/2024	12/19/2024	John Carlone	None	None	Mahesh Dadoda 12/24/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = Final Quantity: 40.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP132216	12/18/2024	12/19/2024	John Carlone	None	None	Mahesh Dadoda 12/24/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP132217	12/18/2024	12/19/2024	John Carlone	None	None	Mahesh Dadoda 12/24/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = Final Quantity: 40.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP132218	12/18/2024	12/19/2024	John Carlone	None	None	Mahesh Dadoda 12/24/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP132253	12/20/2024	12/21/2024	John Carlone	None	None	Mahesh Dadoda 12/23/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP132254	12/20/2024	12/21/2024	John Carlone	None	None	Mahesh Dadoda 12/23/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP132255	12/20/2024	12/21/2024	John Carlone	None	None	Mahesh Dadoda 12/23/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = Final Quantity: 40.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP132281	12/23/2024	12/24/2024	John Carlone	None	None	Mahesh Dadoda 12/27/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP132282	12/23/2024	12/24/2024	John Carlone	None	None	Mahesh Dadoda 12/27/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = Final Quantity: 40.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP132283	12/23/2024	12/24/2024	John Carlone	None	None	Mahesh Dadoda 12/27/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = Final Quantity: 40.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	02/28/2025	11/26/2024 / SAM	01/23/2023 / SAM	V13445

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	06/10/2025	06/10/2024 / SAM	04/12/2023 / SAM	V13707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0194279	03/16/2025	09/16/2024 / SAM	05/31/2023 / SAM	V13806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	032922	03/29/2025	11/26/2024 / SAM	11/22/2023 / SAM	V14020

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	032922	03/29/2025	11/26/2024 / SAM	11/22/2023 / SAM	V14021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0205179	05/26/2025	11/26/2024 / SAM	12/22/2023 / SAM	V14105

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0205179	05/26/2025	11/26/2024 / SAM	12/22/2023 / SAM	V14106

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	02/28/2025	08/29/2024 / SAM	02/06/2024 / SAM	V14145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	04/14/2025	10/14/2024 / SAM	02/06/2024 / SAM	V14152

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	05/26/2025	11/26/2024 / SAM	02/20/2024 / SAM	V14173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	05/26/2025	11/26/2024 / SAM	02/20/2024 / SAM	V14174

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14192

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14194

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	05/26/2025	11/26/2024 / SAM	08/15/2024 / SAM	V14434

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	05/26/2025	11/26/2024 / SAM	08/15/2024 / SAM	V14437

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120524	01/05/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120524	01/05/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14651

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120524	01/05/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Bottles

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier

Jamie Ethier
Vice President Global Quality

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

Weight(s) shown below were combined and diluted to (mL):	100.0	0.021	Flask Uncertainty
		5E-05	Balance Uncertainty

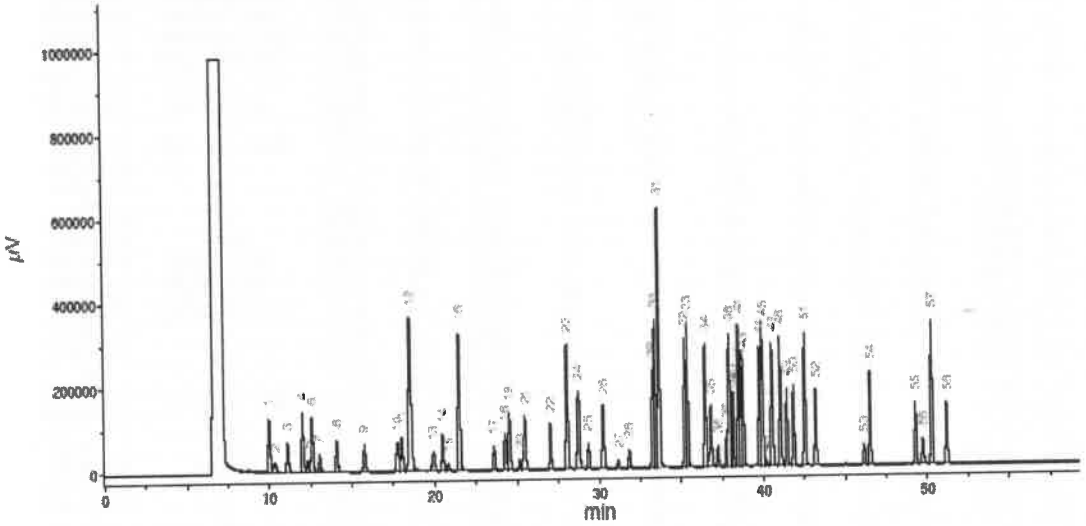
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0361)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethene	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.88
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
35	cis-1,4-Dichloro-2-Butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

Weight(s) shown below were combined and diluted to (mL):	100.0	0.021	Flask Uncertainty
		5E-05	Balance Uncertainty

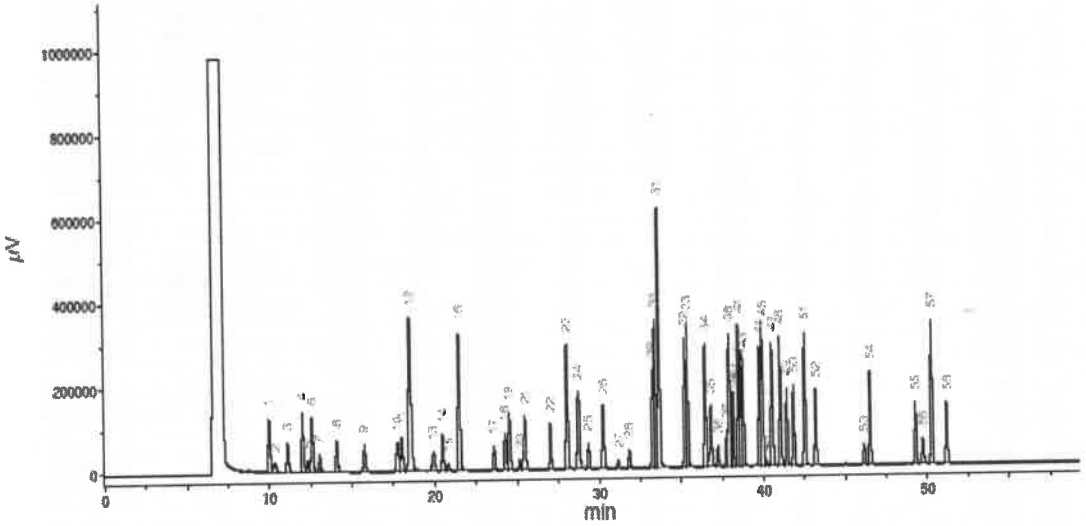
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0361)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethene	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.88
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
35	cis-1,4-Dichloro-2-Butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

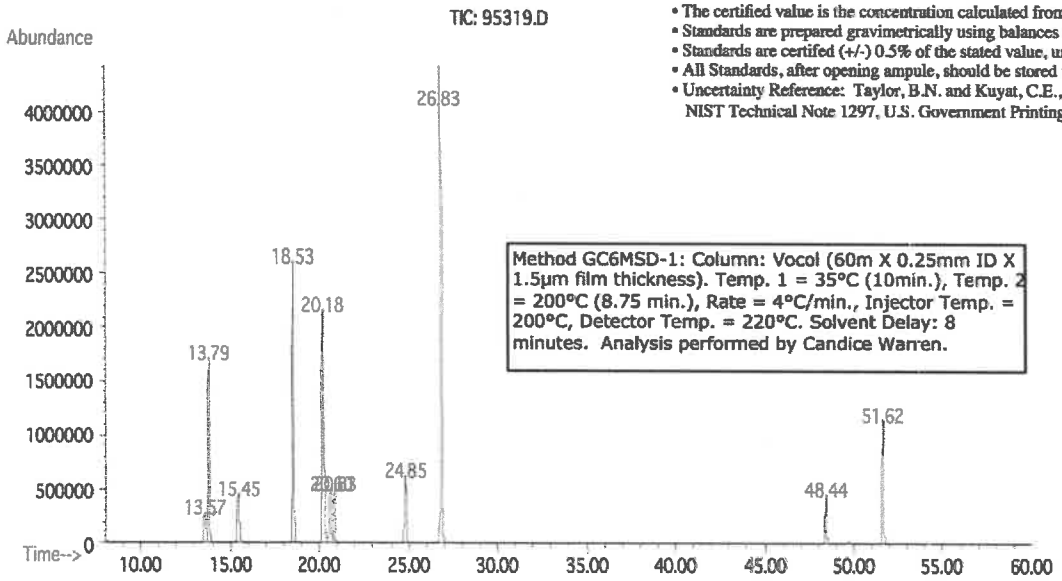
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

Solvent(s): Methanol **Lot#** EC592-US

Formulated By: Prashant Chauhan 032922 DATE

Reviewed By: Pedro L. Rentas 032922 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	orl-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	orl-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

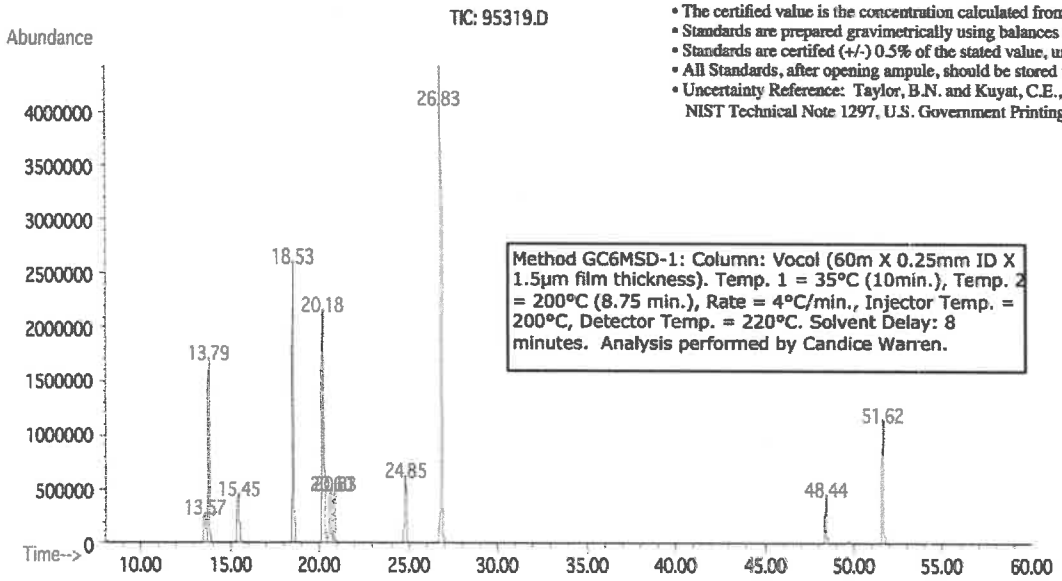
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

Solvent(s): Methanol **Lot#** EC592-US

Formulated By: Prashant Chauhan 032922 DATE

Reviewed By: Pedro L. Rentas 032922 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	orl-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	orl-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

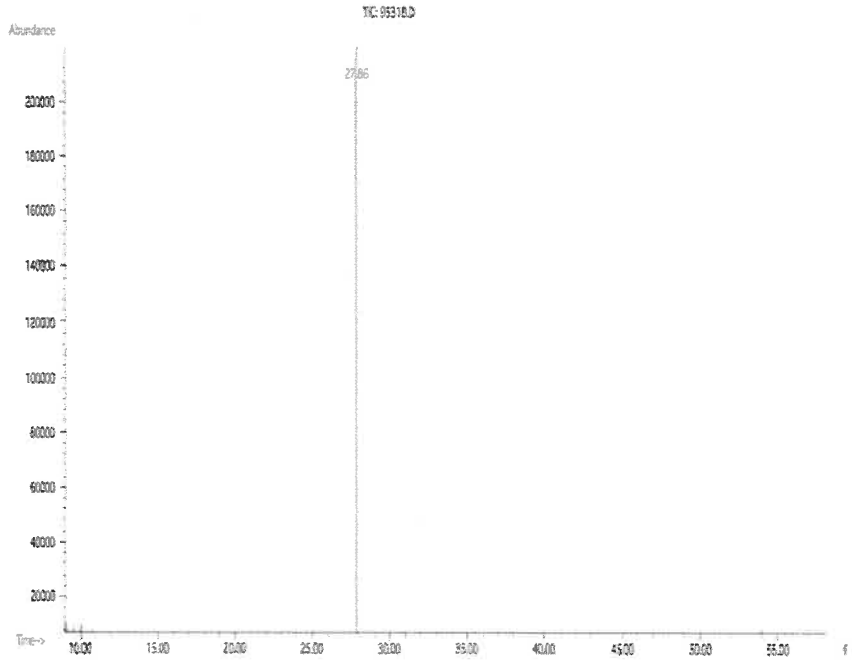
V14630 to V14649

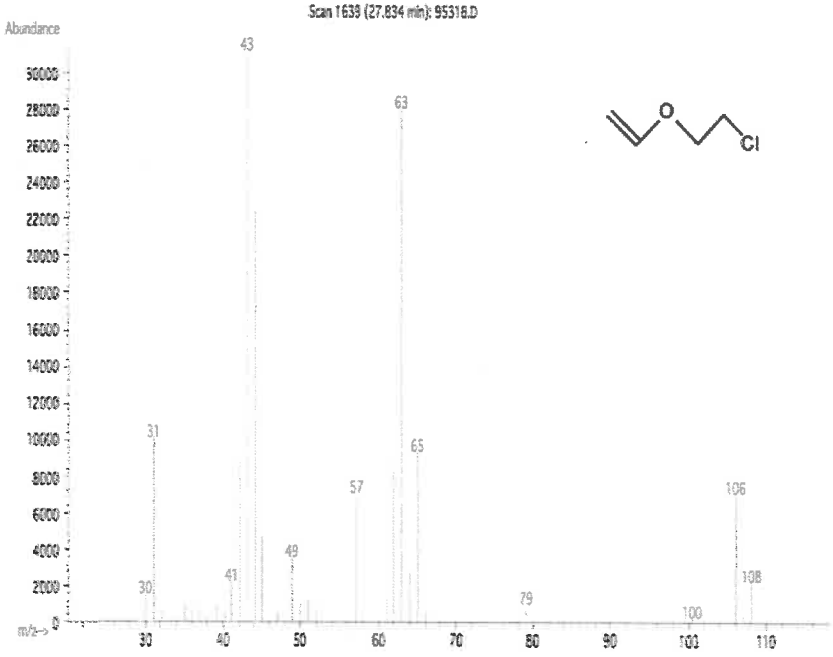
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro L. Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

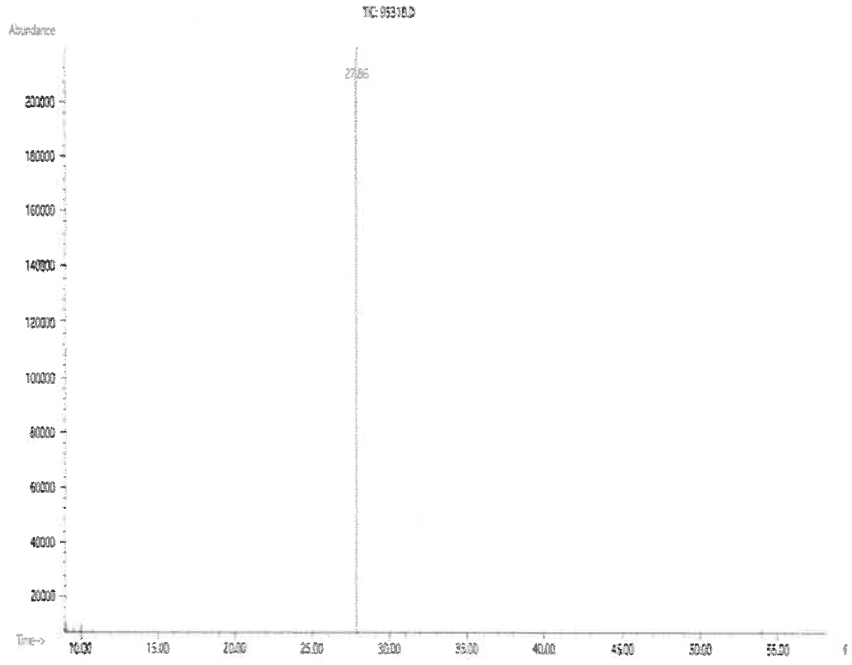
V14630 to V14649

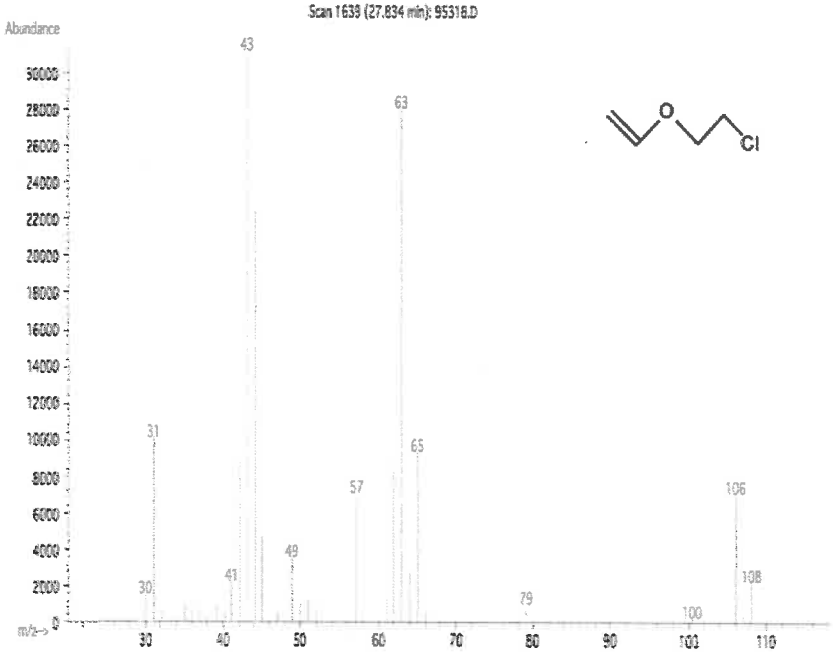
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro L. Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

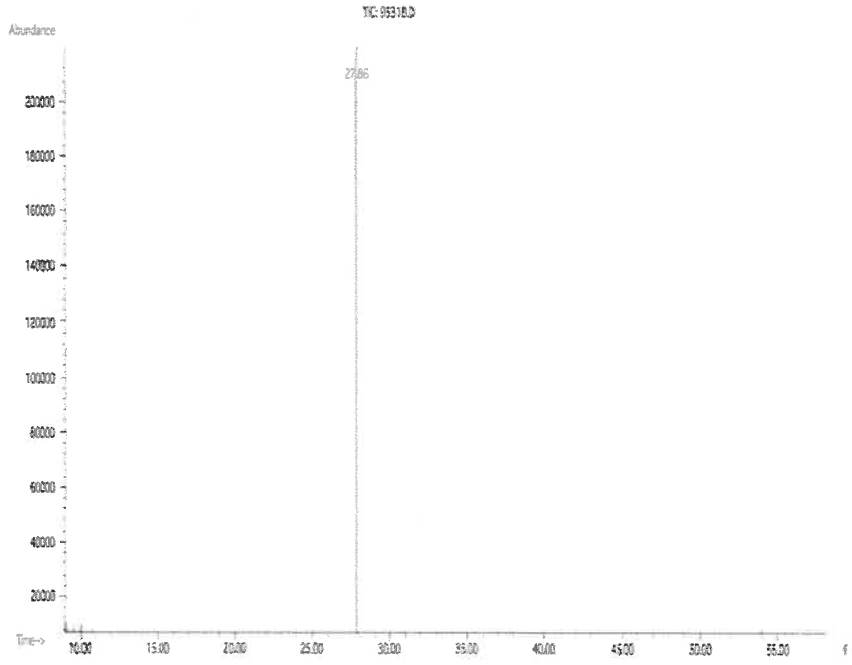
V14630 to V14649

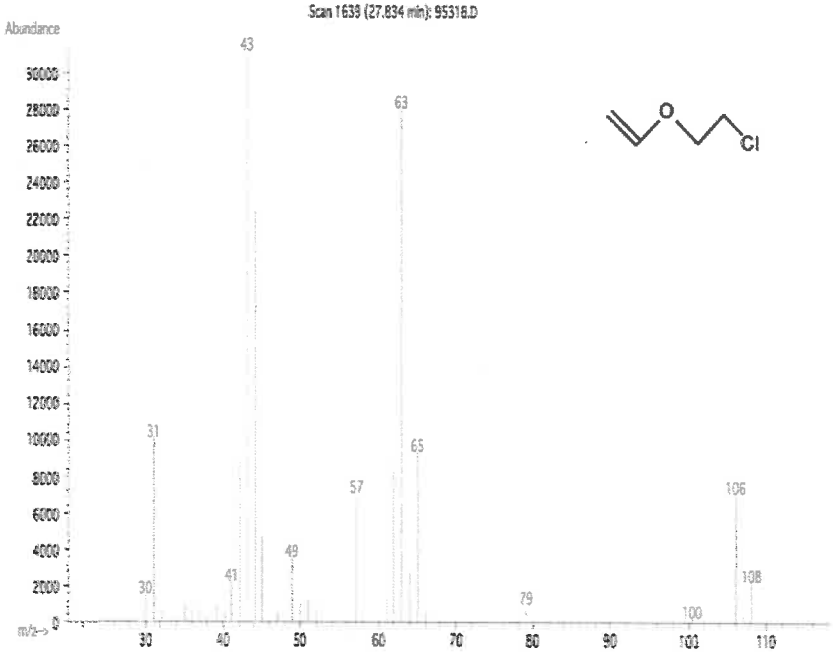
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro L. Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

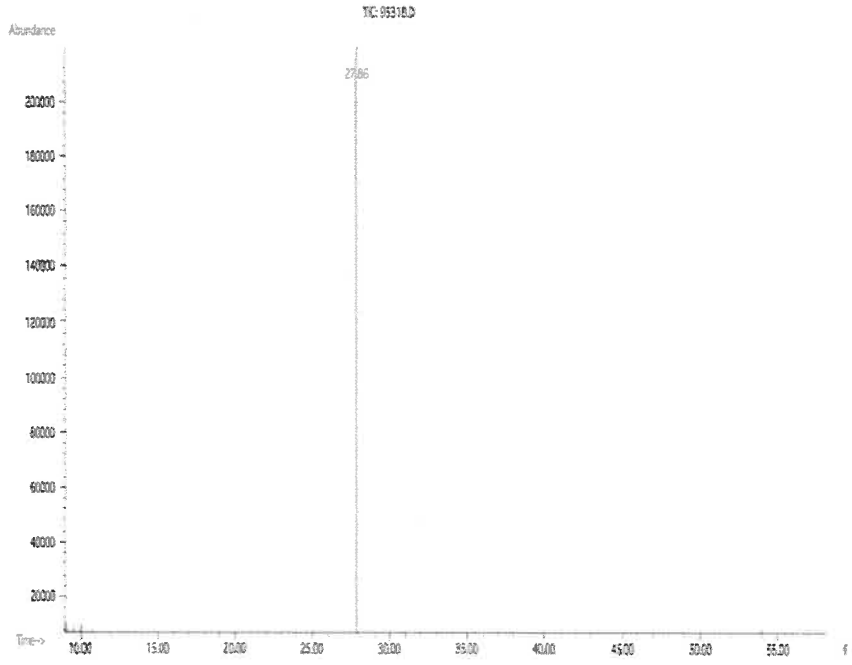
V14630 to V14649

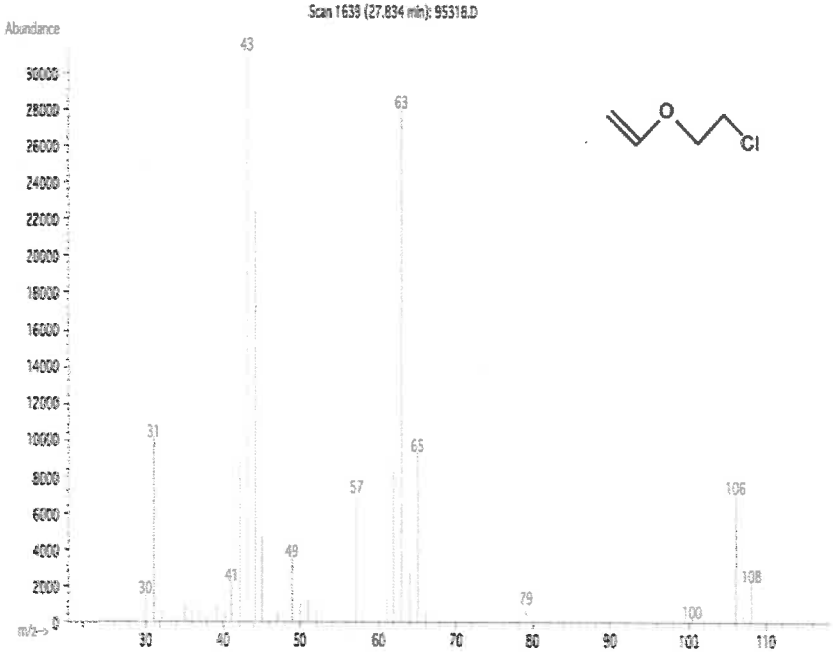
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro L. Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
5 Vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 120524
Description: Acrolein

Expiration Date: 010525
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

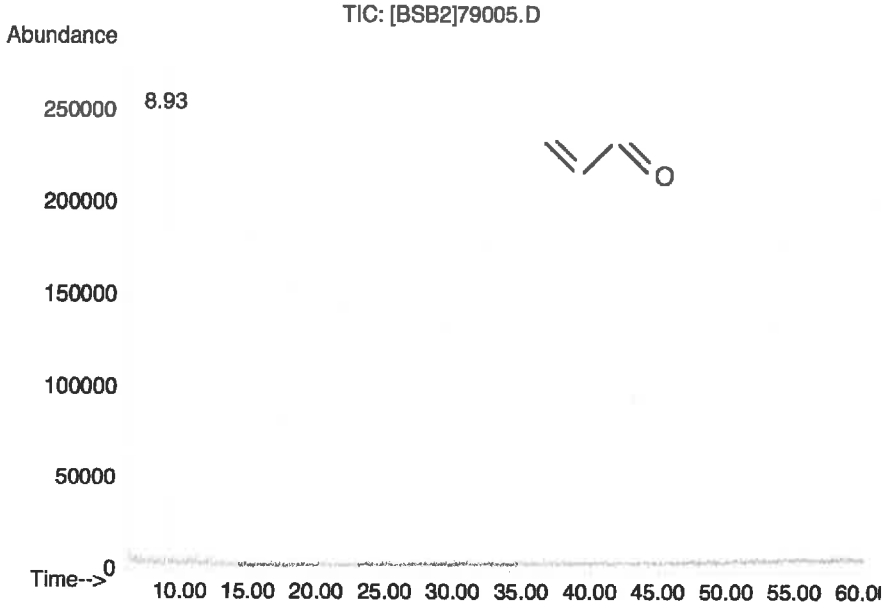
V14650-54

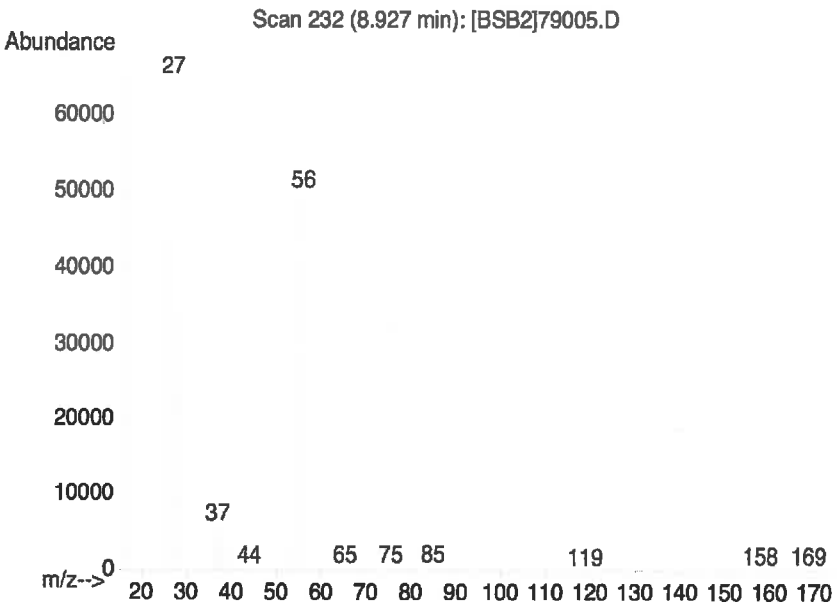
Prashant Chauhan		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		120524
Reviewed By:	Pedro L. Rentas	DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 20.0 0.002 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.10307	0.10320	5006.1	51.8	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
5 Vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 120524
Description: Acrolein

Expiration Date: 010525
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

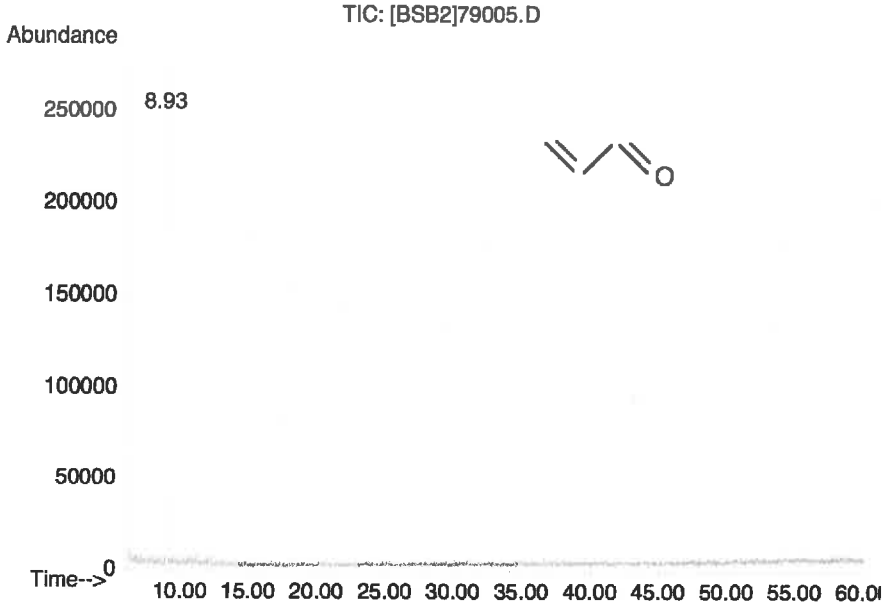
V14650-54

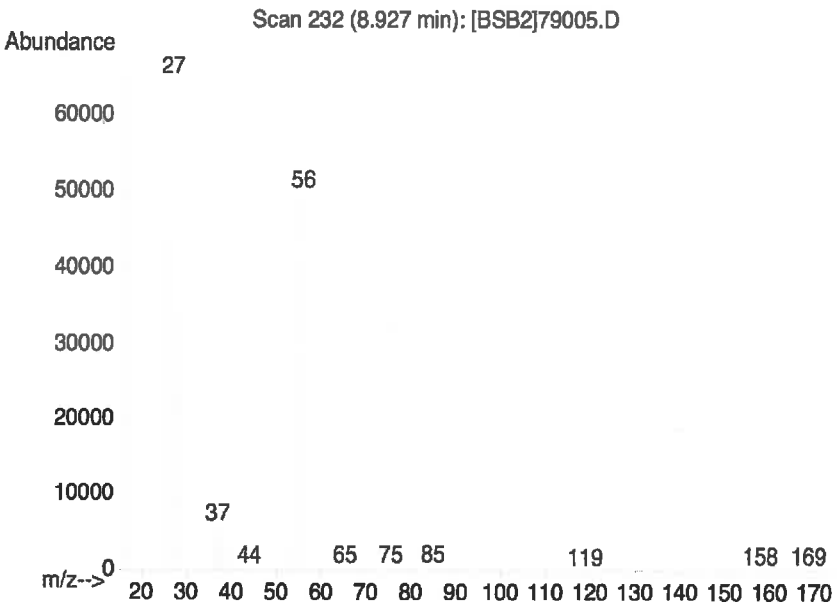
Prashant Chauhan		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		120524
Reviewed By:	Pedro L. Rentas	DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 20.0 0.002 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.10307	0.10320	5006.1	51.8	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
5 Vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 120524
Description: Acrolein

Expiration Date: 010525
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

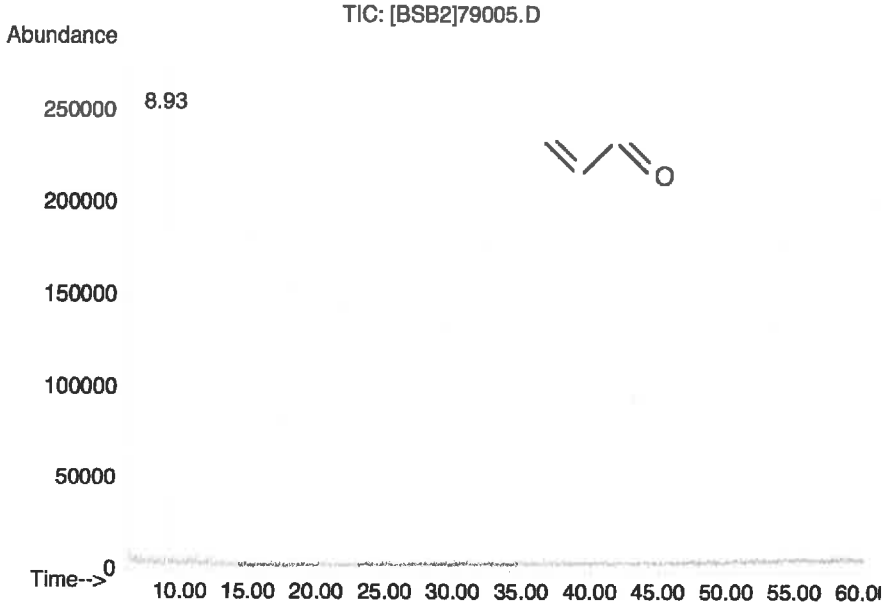
V14650-54

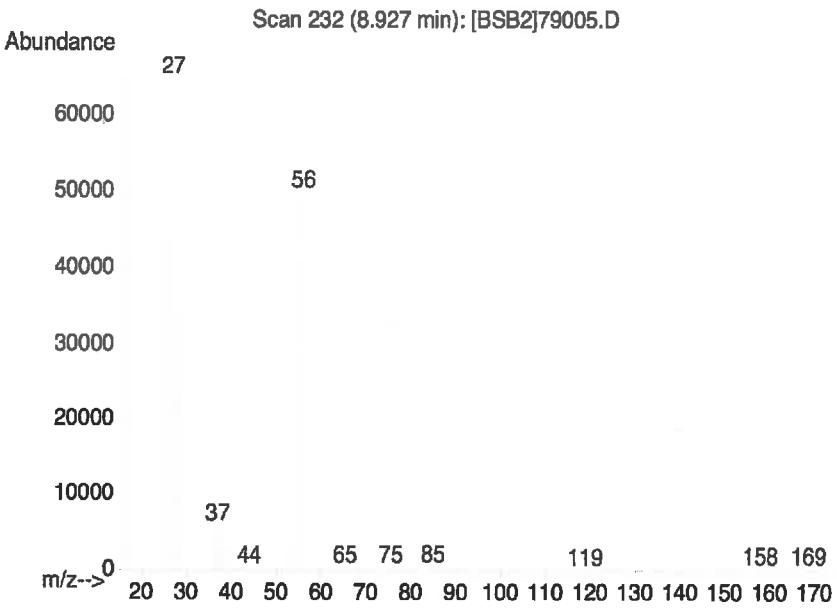
Prashant Chauhan		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		120524
Reviewed By:	Pedro L. Rentas	DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 20.0 0.002 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.10307	0.10320	5006.1	51.8	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0181905

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butanol (TBA)	50,126.0 µg/mL	+/- 293.4988 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBM7694)		+/- 1,073.7654 µg/mL	Unstressed
	Purity 99%		+/- 1,104.9494 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

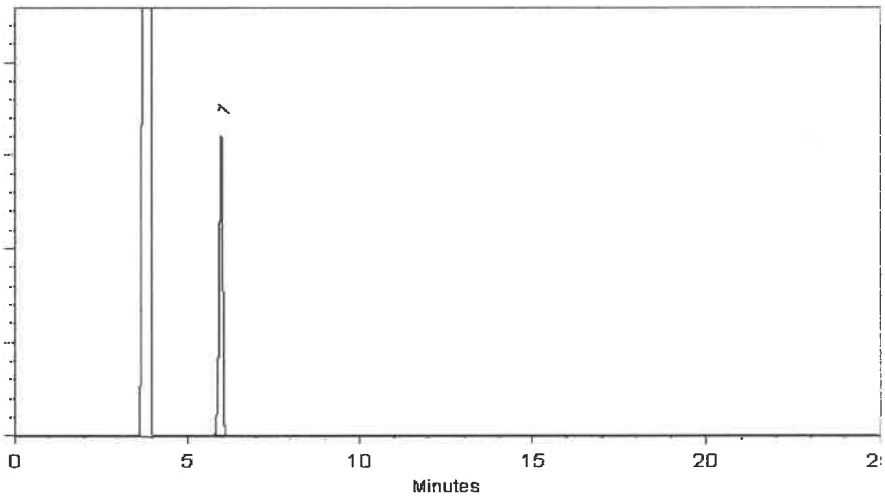
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022 **Balance:** B442140311

Marlina Cowan - Operations Tech I

Date Passed: 21-Feb-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

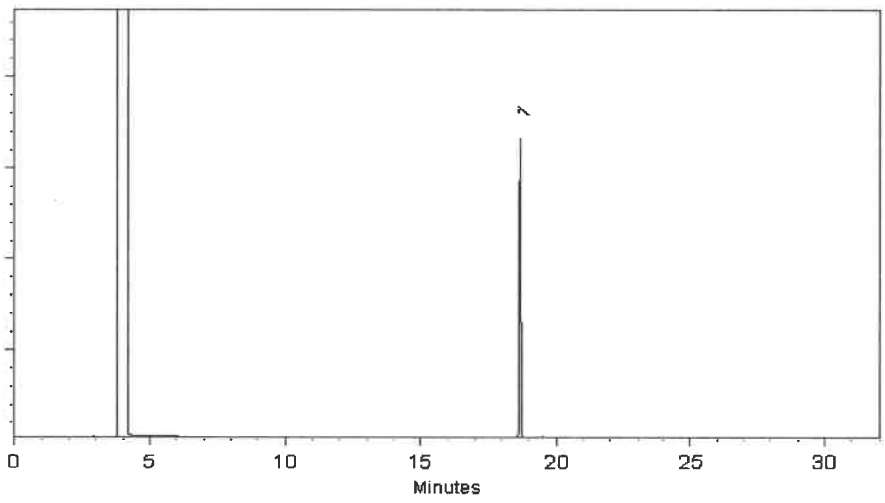
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I **Date Mixed:** 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 21-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

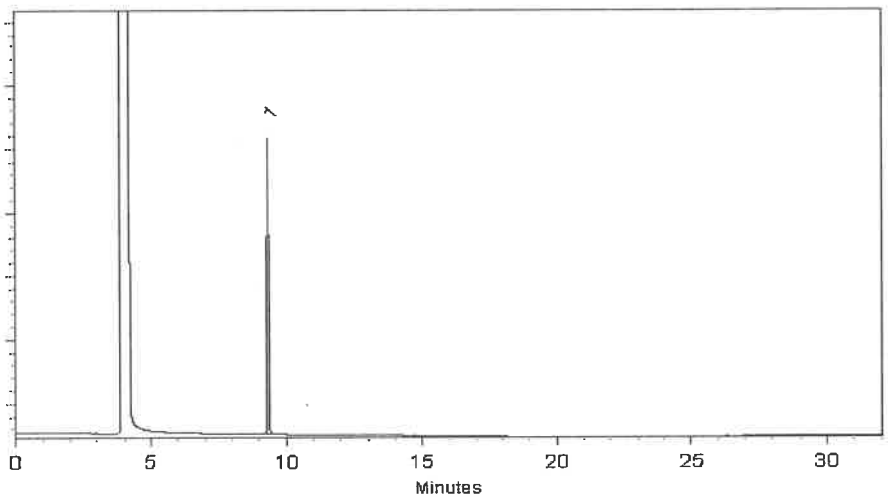
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

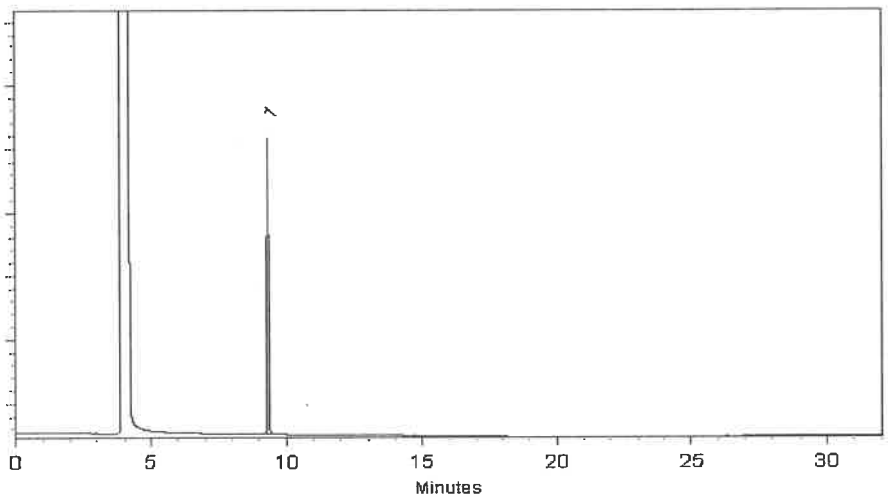
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

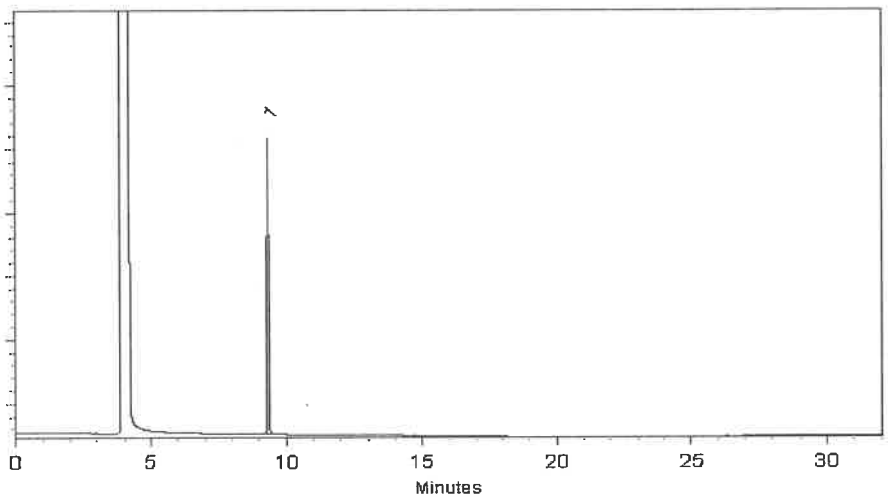
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

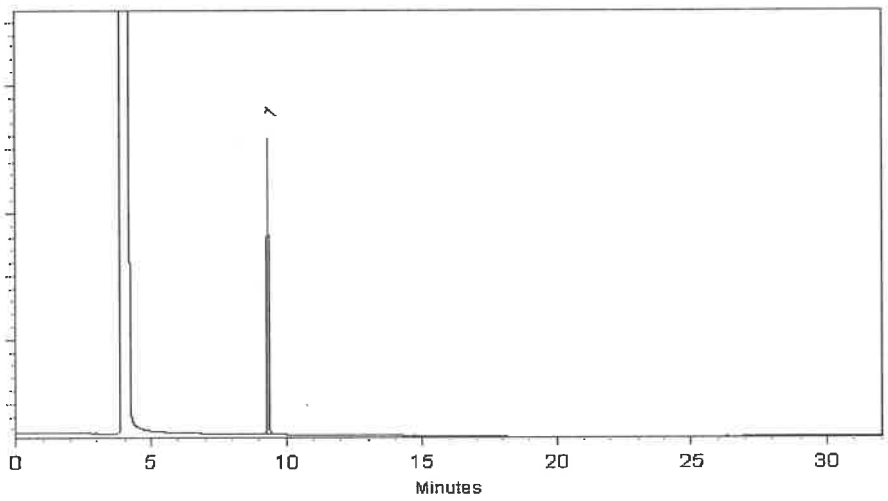
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0194279

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

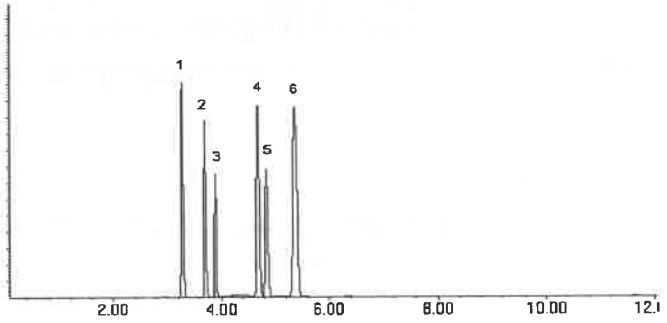
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 03-Feb-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

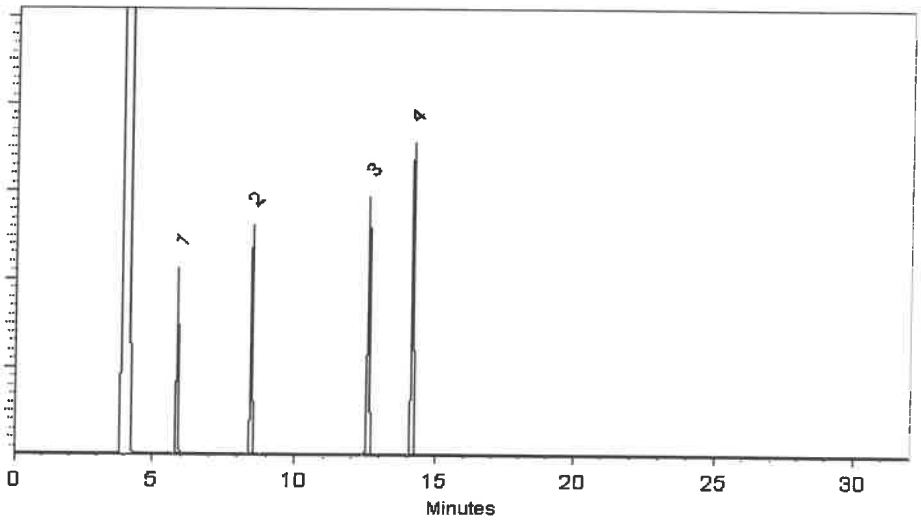
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

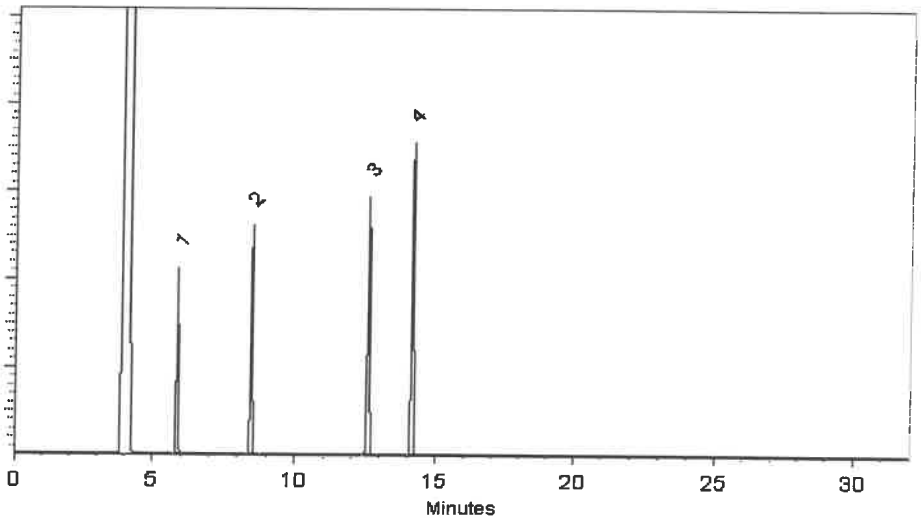
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

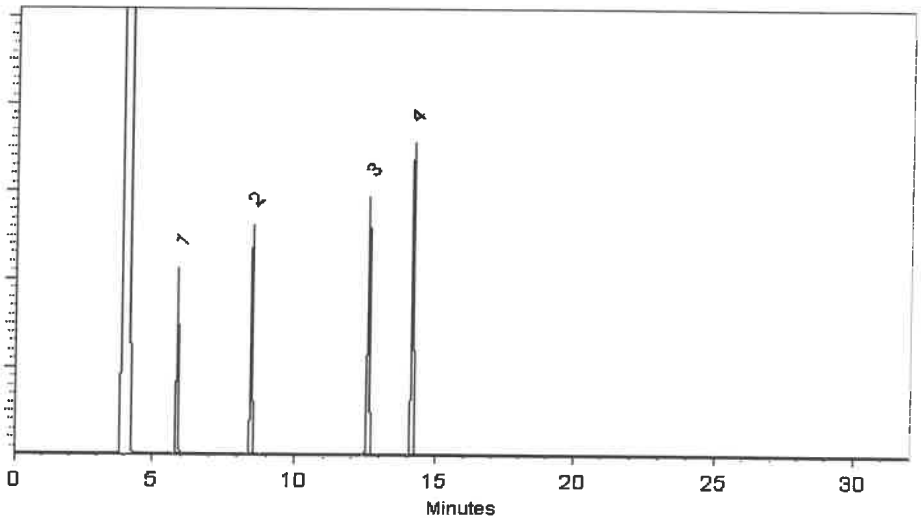
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

12

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0205179

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

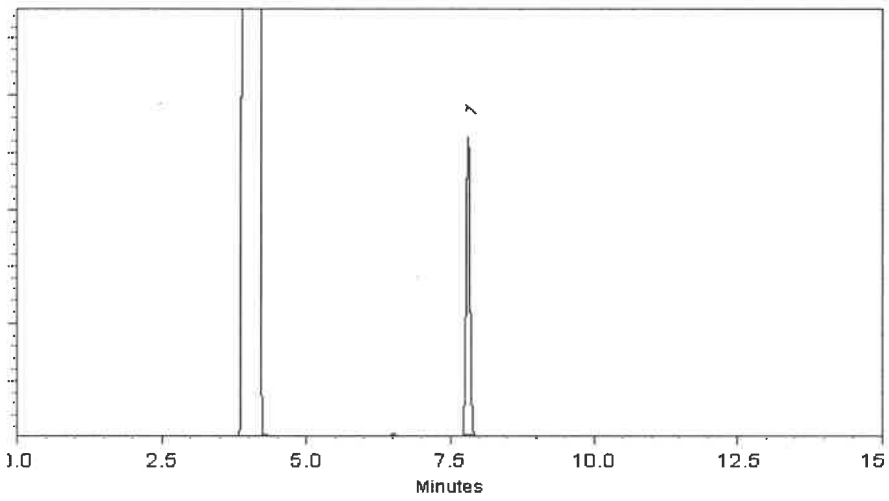
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Daniel Wasson - Operations Tech I **Date Mixed:** 06-Dec-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 11-Dec-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

12

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0205179

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

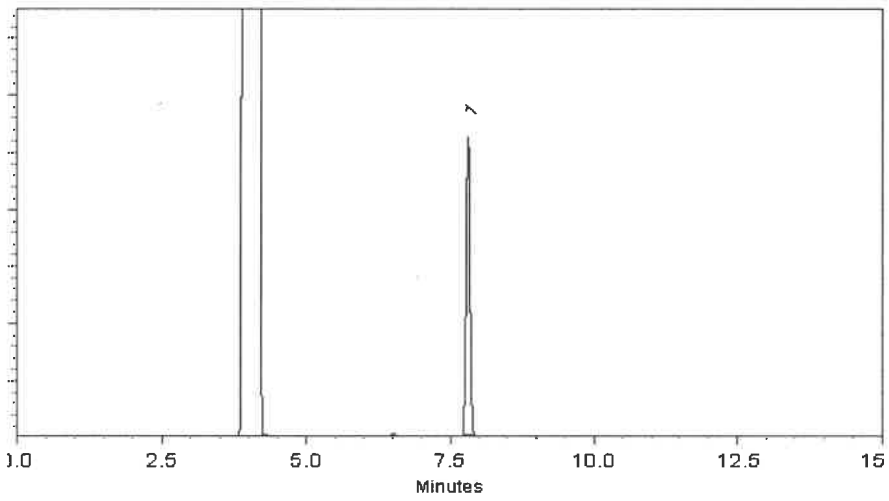
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Daniel Wasson - Operations Tech I **Date Mixed:** 06-Dec-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 11-Dec-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

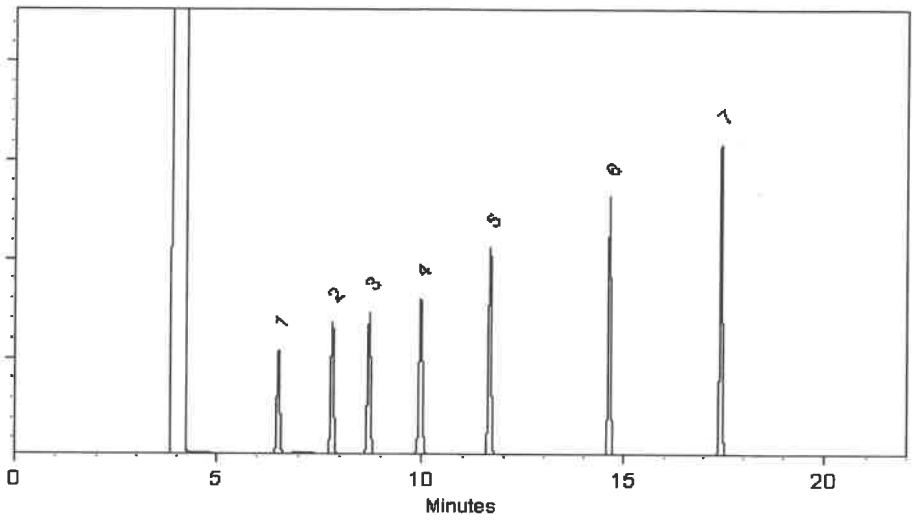
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

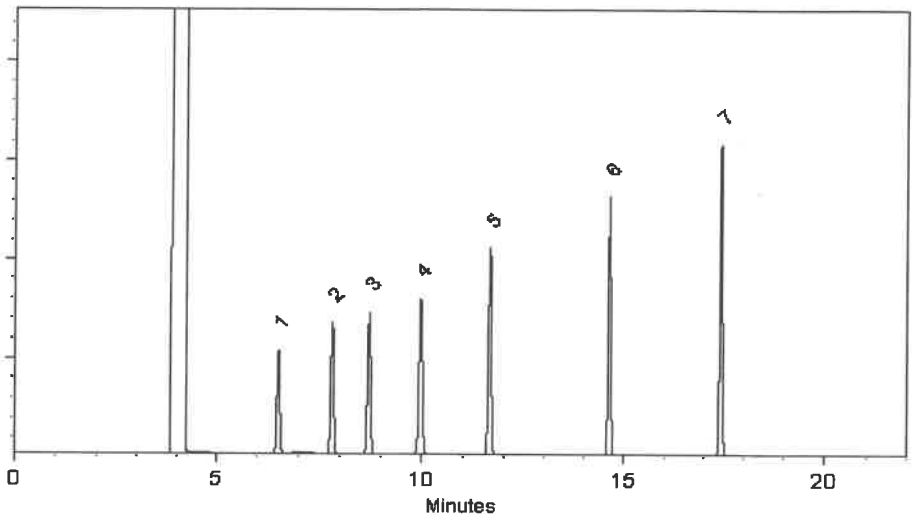
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. PS317
COC Number 2041881

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY STATE: ZIP:
ATTENTION: E. VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO.: 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PLACE
CITY OSSINING STATE: NY ZIP: 10562
ATTENTION: E. VIVAUDOU PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other
- ☑ EDD FORMAT NYSDEC EDD CAT B

ANALYSIS

VOCs 8260 | 1,4 DIOXANE SIM 8270

PRESERVATIVES

A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-OTHER

COMMENTS

← Specify Preservatives

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9
1.	RE11402-20241216	GW		X	12-16-24	0915	3	A	E							
2.	RW4-20241216	GW		X		1100	3	2	1							
3.	TT19ID1-20241216	GW		X		1036	3	2	1							
4.	TT19ID2-20241216	GW		X		0934	3	2	1							
5.	TT163S1-20241216	GW		X		1320	3	2	1							
6.	DUP-04-20241216	GW		X		—	3	2	1							
7.	RW8-MW01S-20241216	GW		X		1405	3	2	1							
8.	RW8-MW01D1-20241216	GW		X		1257	3	2	1							
9.	TT158S1-20241217	GW		X	12-17-24	0845	3	2	1							
10.	TT158I1-20241217	GW		X	12-17-24	0940	3	2	1							

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	12-17-24	1. 1530 12-17-24
2.		2.
3.	12-17-24 1830	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.9 °C
Comments:

Page 1 of 3

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

Copyright © 2024

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. PS317
QUOTE NO.
COC Number 2041249

CLIENT INFORMATION (REPORT TO BE SENT TO:)
COMPANY: RESOLUTION
ADDRESS:
CITY STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION
PROJECT NAME: NWIRP BETHPAGE
PROJECT NO. 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION
BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PLACE
CITY OSSINING STATE: NY ZIP: 10562
ATTENTION: E. VIVAUDOU PHONE:

DATA TURNAROUND INFORMATION
FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION
☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ Other
☒ EDD FORMAT NYSDEC EQUIS B

ANALYSIS
1 VOCs 8260
2 1,4 DIOXANE 8270 SIM
3
4
5
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A/E	E								← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	DUP-05-20241217	GW		X	12-17-24	—	3	2	1								
2.	RESOLUTION 172S1-20241217	GW		X		1200	3	2	1								
3.	RW9-MW01S-20241217	GW		X		1110	3	2	1								
4.	RW9-MW01D1-20241217	GW		X		1110	3	2	1								
5.	RW9-MW01D2-20241217	GW		X		0930	3	2	1								
6.	RW9-MW01D3-20241217	GW		X		0945	3	2	1								
7.	DUP-06-20241217	GW		X		—	3	2	1								
8.	RE132D5-20241217	GW		X		0835	9	6	3								
9.	RE132D6-20241217	GW		X		0945	3	2	1								
10.	RE132D7-20241217	GW		X	↓	1130	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME:	RECEIVED BY:
1. RELINQUISHED BY SAMPLER:	12-17-24	1. 1530 12-17-24
2. RELINQUISHED BY SAMPLER:	DATE/TIME:	2. RECEIVED BY:
3. RELINQUISHED BY SAMPLER:	DATE/TIME: 1830 12-17-24	3. RECEIVED BY:

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments:

Page 2 of 3

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

Copyright © 2023

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. PS317
COC Number 2041052

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO. 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PLACE
CITY OSSINING STATE: NY ZIP: 10562
ATTENTION: E. VIVAUDOU PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

❑ Level 1 (Results Only) ❑ Level 4 (QC + Full Raw Data)
❑ Level 2 (Results + QC) ❑ NJ Reduced ❑ US EPA CLP
❑ Level 3 (Results + QC + Raw Data) ❑ NYS ASP A ❑ NYS ASP B
❑ Other
X EDD FORMAT NYSDEC EDD CAT B

ANALYSIS

1 VOCs 8260 2 1,4 DIOXANE 8270 SIM 3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9
1.	TB	DW		X	12-17-24	—	2	2								
2.	RWS-MW01D2-20241217	GW		X	12-17-24	1345	3	2	1							
3.	RWS-MW01D3-20241217	GW		X	12-17-24	1430	3	2	1							
4.																
5.																
6.																
7.																
8.																
9.																
10.																

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	12-17-24 1530	1. 12-17-24
2.		2.
3.	12-17-24 1830	3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 2.5 °C
Comments:

Page 3 of 3

CLIENT: ❑ Hand Delivered ❑ Other
CHEMTECH: ❑ Picked Up ❑ Field Sampling

Shipment Complete ❑ YES ❑ NO

Copyright © 2023

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5317 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 12/17/2024 3:48:00 PM
Project Name : NAVFAC NWIRP Bethpag
Receive DateTime : 12/17/2024 6:30:00 PM
Purchase Order :

Project Mgr :
Report Type : Results Only
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5317-01	RE114D2-20241216	Water	12/16/2024	09:15					
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-02	RW4-20241216	Water	12/16/2024	11:00					
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-03	TT191D1-20241216	Water	12/16/2024	10:36					
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-04	TT191D2-20241216	Water	12/16/2024	09:34					
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-05	TT163S1-20241216	Water	12/16/2024	13:20					
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-06	DUP-04-20241216	Water	12/16/2024	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-07	RW8-MW01S-20241216	Water	12/16/2024	14:05					
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-08	RW8-MW01D1-20241216	Water	12/16/2024	12:57					

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5317 AECO15
Client Name : AECOM Technical Services
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Services
Invoice Contact : Eleanor Vivadou

Order Date : 12/17/2024 3:48:00 PM
Project Name : NAVFAC NWIRP Bethpage
Receive DateTime : 12/17/2024 6:30:00 PM
Purchase Order :

Project Mgr :
Report Type : Results Only
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOCMS Group1		8260-Low	10 Bus. Days		
P5317-09	TT158S1-20241217	Water	12/17/2024	08:45						
					VOCMS Group1		8260-Low	10 Bus. Days		
P5317-10	TT158I1-20241217	Water	12/17/2024	09:40						
					VOCMS Group1		8260-Low	10 Bus. Days		
P5317-11	DUP-05-20241217	Water	12/17/2024	00:00						
					VOCMS Group1		8260-Low	10 Bus. Days		
P5317-12	TT172S1-20241217	Water	12/17/2024	12:00						
					VOCMS Group1		8260-Low	10 Bus. Days		
P5317-13	RW9-MW01S-20241217	Water	12/17/2024	11:10						
					VOCMS Group1		8260-Low	10 Bus. Days		
P5317-14	RW9-MW01D1-20241217	Water	12/17/2024	11:10						
					VOCMS Group1		8260-Low	10 Bus. Days		
P5317-15	RW9-MW01D2-20241217	Water	12/17/2024	09:30						
					VOCMS Group1		8260-Low	10 Bus. Days		

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5317 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 12/17/2024 3:48:00 PM
Project Name : NAVFAC NWIRP Bethpag
Receive DateTime : 12/17/2024 6:30:00 PM
Purchase Order :

Project Mgr :
Report Type : Results Only
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5317-16	RW9-MW01D3-20241217	Water	12/17/2024	09:45					
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-17	DUP-06-20241217	Water	12/17/2024	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-18	RE132D5-20241217	Water	12/17/2024	08:35					
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-19	P5317-18MS	Water	12/17/2024	08:35					
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-20	P5317-18MSD	Water	12/17/2024	08:35					
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-21	RE132D6-20241217	Water	12/17/2024	09:45					
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-22	RE132D7-20241217	Water	12/17/2024	11:30					
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-23	TB	Water	12/17/2024	00:00					

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5317 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 12/17/2024 3:48:00 PM
Project Name : NAVFAC NWIRP Bethpag
Receive DateTime : 12/17/2024 6:30:00 PM
Purchase Order :

Project Mgr :
Report Type : Results Only
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-24	RW8-MW01D2-20241217	Water	12/17/2024	13:45					
					VOCMS Group1		8260-Low		10 Bus. Days
P5317-25	RW8-MW01D3-20241217	Water	12/17/2024	14:30					
					VOCMS Group1		8260-Low		10 Bus. Days

Relinguished By : [signature]
Date / Time : 12.18.24 1045

Received By : [signature]
Date / Time : 12.18.24 10:45
Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044219.D
Acq On : 11 Dec 2024 10:41
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	141947	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	253574	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	213862	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	88334	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	3407	1.369	ug/l	0.01
Spiked Amount 50.000	Range 74 - 125		Recovery =	2.740%#		
35) Dibromofluoromethane	5.385	113	2117	1.205	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	2.420%#		
50) Toluene-d8	8.653	98	6848	1.156	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	2.320%#		
62) 4-Bromofluorobenzene	11.091	95	2398	1.158	ug/l	0.01
Spiked Amount 50.000	Range 77 - 121		Recovery =	2.320%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	2491	1.135	ug/l	98
3) Chloromethane	1.300	50	2109	1.005	ug/l	98
4) Vinyl Chloride	1.373	62	2285	1.045	ug/l #	85
5) Bromomethane	1.593	94	1882	1.213	ug/l	94
6) Chloroethane	1.672	64	1176	0.864	ug/l	92
7) Trichlorofluoromethane	1.867	101	4491	1.049	ug/l	96
8) Diethyl Ether	2.129	74	1651	1.130	ug/l	78
9) 1,1,2-Trichlorotrifluo...	2.318	101	1796	1.037	ug/l	95
10) Methyl Iodide	2.440	142	2045	0.896	ug/l	99
11) Tert butyl alcohol	2.989	59	972	2.776	ug/l #	71
12) 1,1-Dichloroethene	2.306	96	1454	0.914	ug/l	90
13) Acrolein	2.233	56	2449	4.823	ug/l	84
14) Allyl chloride	2.660	41	2551	0.963	ug/l #	91
15) Acrylonitrile	3.068	53	4528	4.660	ug/l	98
16) Acetone	2.385	43	5096	5.022	ug/l	97
17) Carbon Disulfide	2.501	76	2387	0.789	ug/l	99
18) Methyl Acetate	2.702	43	2739	1.047	ug/l #	86
19) Methyl tert-butyl Ether	3.117	73	5832	0.939	ug/l #	91
20) Methylene Chloride	2.776	84	1928	1.012	ug/l #	74
21) trans-1,2-Dichloroethene	3.080	96	1703	1.007	ug/l #	79
22) Diisopropyl ether	3.763	45	5792	0.971	ug/l #	83
23) Vinyl Acetate	3.733	43	17578	3.623	ug/l	100
24) 1,1-Dichloroethane	3.605	63	3040	0.914	ug/l	96
25) 2-Butanone	4.586	43	6380	4.423	ug/l	96
26) 2,2-Dichloropropane	4.464	77	2220	0.821	ug/l	85
27) cis-1,2-Dichloroethene	4.489	96	2296	1.069	ug/l	81
28) Bromochloromethane	4.909	49	1641	1.006	ug/l #	72
29) Tetrahydrofuran	5.025	42	4158	4.491	ug/l #	84
30) Chloroform	5.086	83	3943	1.055	ug/l	91
31) Cyclohexane	5.470	56	2594	0.966	ug/l #	80
32) 1,1,1-Trichloroethane	5.379	97	2818	0.908	ug/l #	48
36) 1,1-Dichloropropene	5.684	75	1178	0.519	ug/l	92
37) Ethyl Acetate	4.727	43	2718	0.969	ug/l #	71
38) Carbon Tetrachloride	5.678	117	2454	1.004	ug/l #	73
39) Methylcyclohexane	7.366	83	2606	0.960	ug/l	93
40) Benzene	6.037	78	6864	0.996	ug/l	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044219.D
Acq On : 11 Dec 2024 10:41
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	390	0.262 ug/l #	1
42) 1,2-Dichloroethane	6.092	62	2810	0.990 ug/l	93
43) Isopropyl Acetate	6.354	43	3734	0.851 ug/l	98
44) Trichloroethene	7.122	130	1806	1.051 ug/l	71
45) 1,2-Dichloropropane	7.433	63	1865	1.059 ug/l #	74
46) Dibromomethane	7.592	93	1251	0.916 ug/l	97
47) Bromodichloromethane	7.830	83	1926	0.816 ug/l #	74
48) Methyl methacrylate	7.720	41	2168	1.018 ug/l #	77
49) 1,4-Dioxane	7.702	88	289	7.943 ug/l #	71
51) 4-Methyl-2-Pentanone	8.579	43	12824	4.547 ug/l	95
52) Toluene	8.720	92	4606	1.064 ug/l	92
53) t-1,3-Dichloropropene	8.988	75	1716	1.694 ug/l #	78
54) cis-1,3-Dichloropropene	8.366	75	2048	0.797 ug/l #	75
55) 1,1,2-Trichloroethane	9.159	97	1710	0.994 ug/l #	83
56) Ethyl methacrylate	9.128	69	2490	0.917 ug/l #	85
57) 1,3-Dichloropropane	9.317	76	2929	0.979 ug/l	94
58) 2-Chloroethyl Vinyl ether	8.244	63	5621	4.105 ug/l	96
59) 2-Hexanone	9.439	43	8199	4.017 ug/l	98
60) Dibromochloromethane	9.524	129	1289	1.953 ug/l	97
61) 1,2-Dibromoethane	9.610	107	1535	0.877 ug/l	95
64) Tetrachloroethene	9.274	164	1536	1.082 ug/l	86
65) Chlorobenzene	10.079	112	4835	1.055 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.158	131	1288	0.875 ug/l #	63
67) Ethyl Benzene	10.195	91	7924	1.001 ug/l #	88
68) m/p-Xylenes	10.305	106	5583	1.922 ug/l	98
69) o-Xylene	10.640	106	2933	0.998 ug/l	96
70) Styrene	10.658	104	4306	0.914 ug/l	94
71) Bromoform	10.805	173	584	1.847 ug/l #	72
73) Isopropylbenzene	10.963	105	6474	0.957 ug/l	100
74) N-amyl acetate	10.847	43	2536	0.811 ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.219	83	2491	1.061 ug/l	95
76) 1,2,3-Trichloropropane	11.244	75	2810	1.402 ug/l	81
77) Bromobenzene	11.201	156	1783	1.087 ug/l	91
78) n-propylbenzene	11.305	91	6606	0.884 ug/l	86
79) 2-Chlorotoluene	11.366	91	5194	1.075 ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	5417	0.966 ug/l	98
81) trans-1,4-Dichloro-2-b...	11.030	75	402	6.098 ug/l	86
82) 4-Chlorotoluene	11.457	91	5236	0.978 ug/l	98
83) tert-Butylbenzene	11.713	119	5601	1.011 ug/l	91
84) 1,2,4-Trimethylbenzene	11.756	105	4769	0.866 ug/l	95
85) sec-Butylbenzene	11.890	105	6500	0.966 ug/l	99
86) p-Isopropyltoluene	12.012	119	5210	0.930 ug/l	93
87) 1,3-Dichlorobenzene	11.975	146	2684	0.937 ug/l	94
88) 1,4-Dichlorobenzene	11.975	146	2684	0.912 ug/l	94
89) n-Butylbenzene	12.335	91	3973	0.844 ug/l	94
90) Hexachloroethane	12.536	117	632	0.773 ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	3082	1.036 ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	392	0.860 ug/l	70
93) 1,2,4-Trichlorobenzene	13.591	180	1361	0.835 ug/l	92
94) Hexachlorobutadiene	13.725	225	689	1.051 ug/l	96
95) Naphthalene	13.780	128	5167	0.812 ug/l #	94
96) 1,2,3-Trichlorobenzene	13.963	180	1509	0.873 ug/l	95

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044219.D
Acq On : 11 Dec 2024 10:41
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

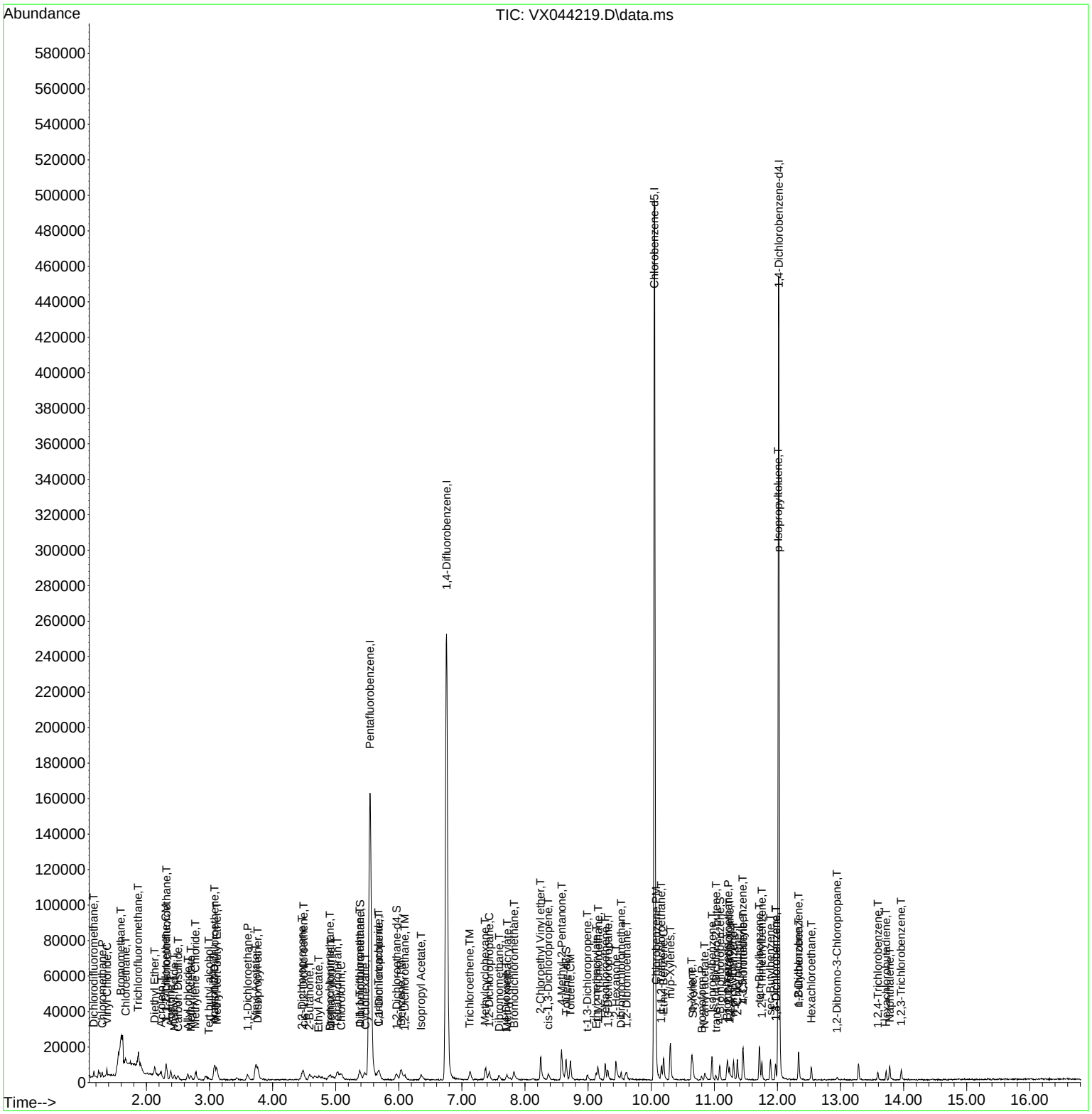
(#) = qualifier out of range (m) = manual integration (+) = signals summed

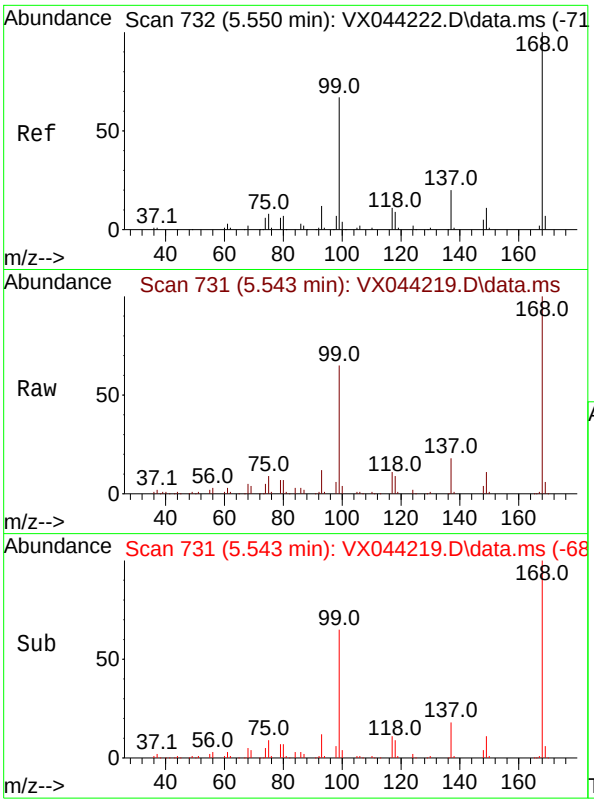
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044219.D
Acq On : 11 Dec 2024 10:41
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration



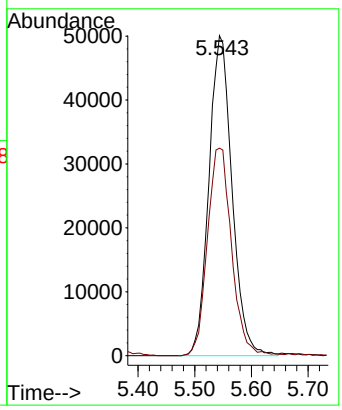


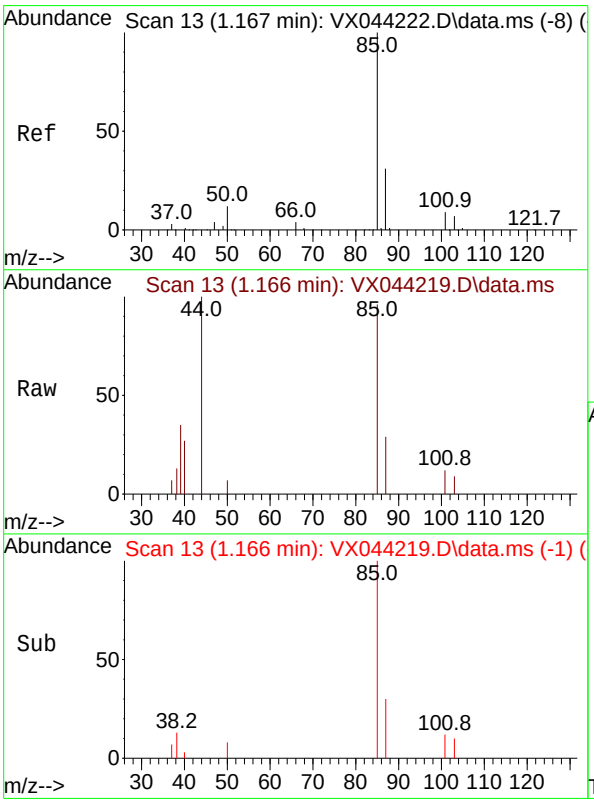
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 141947

Ion	Ratio	Lower	Upper
168	100		
99	64.9	53.4	80.0

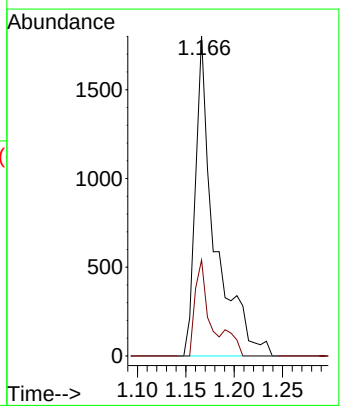


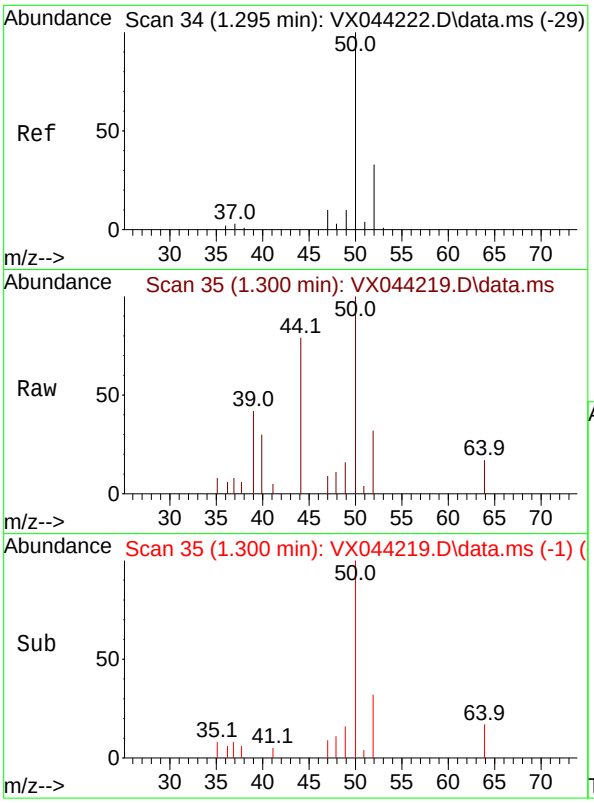


#2
Dichlorodifluoromethane
Concen: 1.135 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 85 Resp: 2491

Ion	Ratio	Lower	Upper
85	100		
87	30.0	15.4	46.4



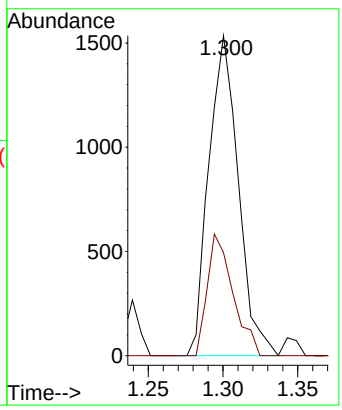


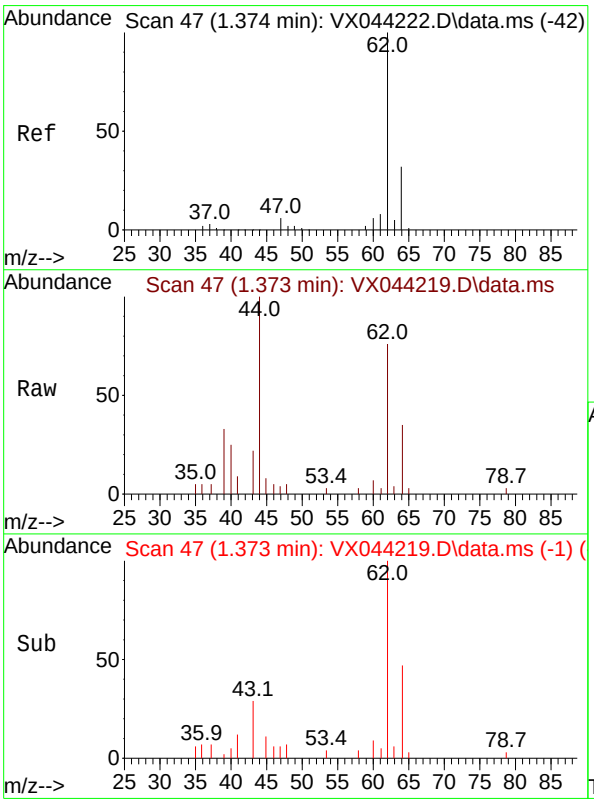
#3
Chloromethane
Concen: 1.005 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 2109

Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.5	39.7

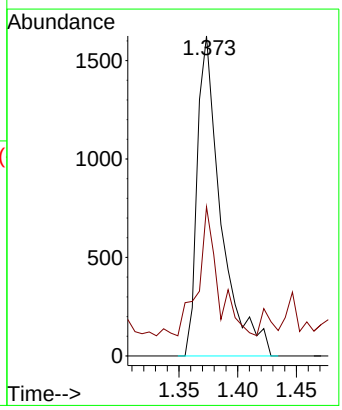


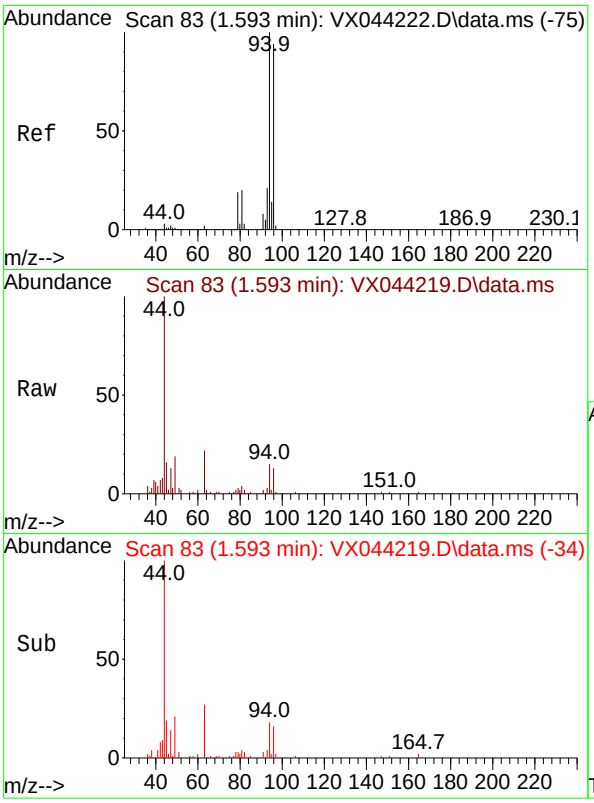


#4
Vinyl Chloride
Concen: 1.045 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 62 Resp: 2285

Ion	Ratio	Lower	Upper
62	100		
64	40.3	25.7	38.5#



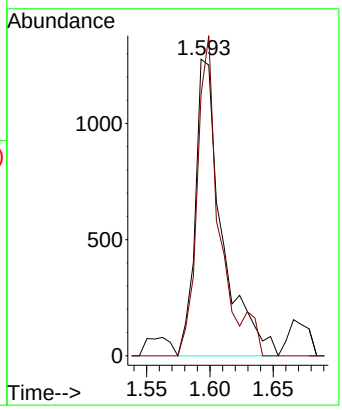


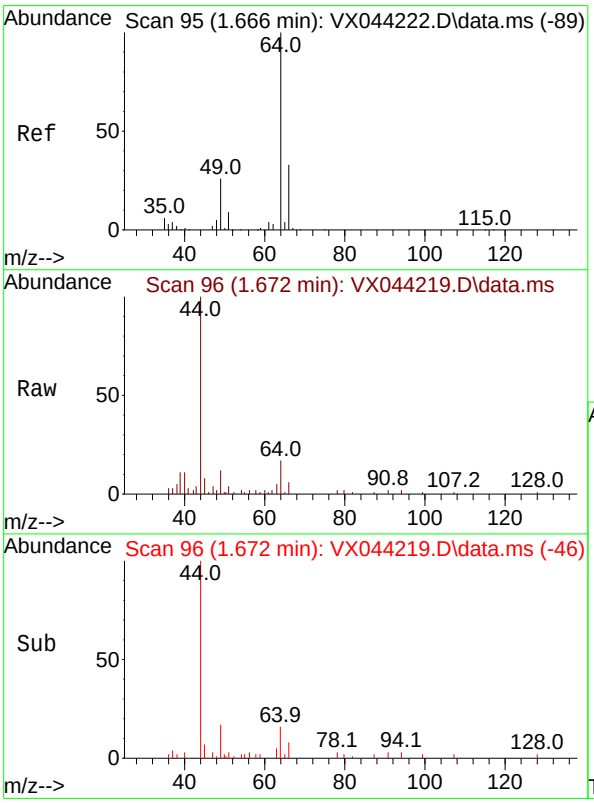
#5
Bromomethane
Concen: 1.213 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 94 Resp: 1882

Ion	Ratio	Lower	Upper
94	100		
96	88.2	74.9	112.3

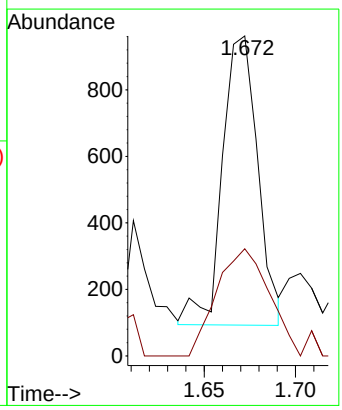


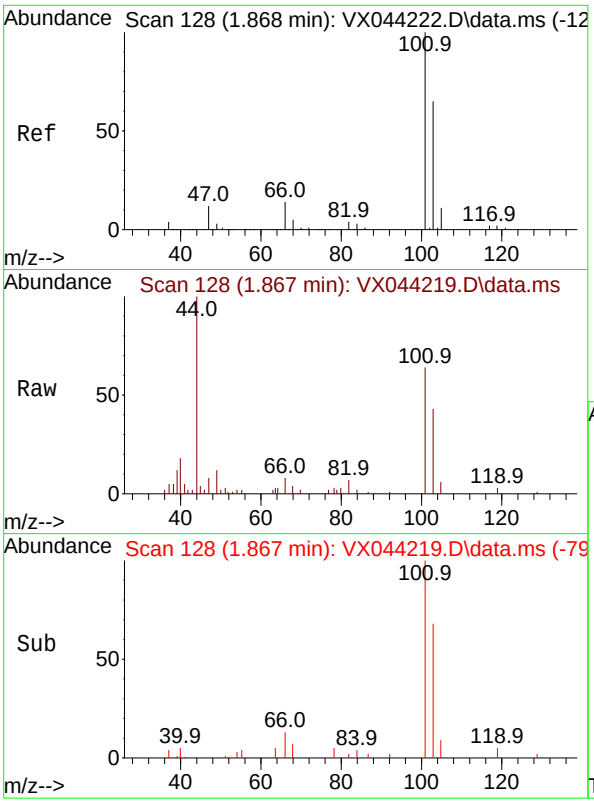


#6
Chloroethane
Concen: 0.864 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 64 Resp: 1176

Ion	Ratio	Lower	Upper
64	100		
66	37.6	26.6	39.8



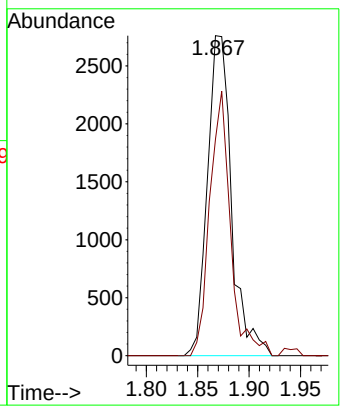


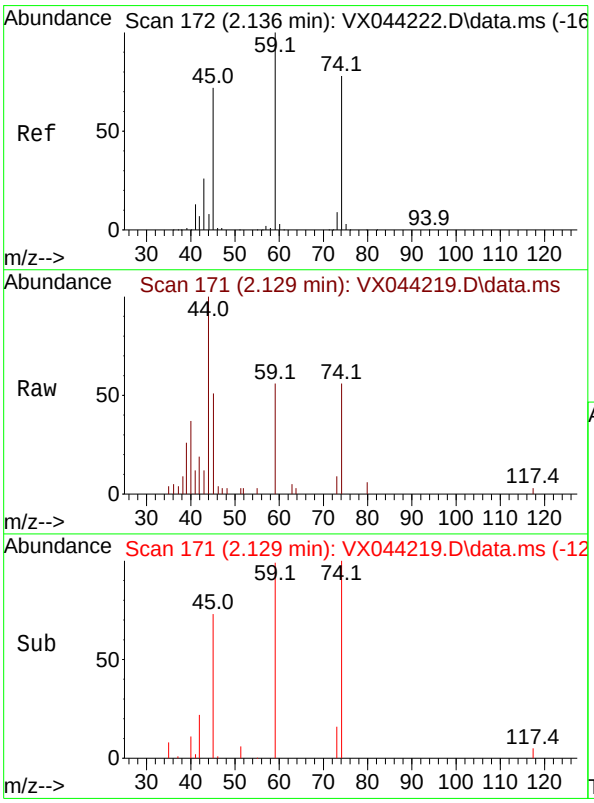
#7
Trichlorofluoromethane
Concen: 1.049 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 4491

Ion	Ratio	Lower	Upper
101	100		
103	67.7	51.8	77.8

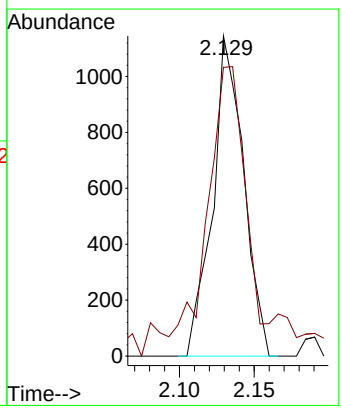


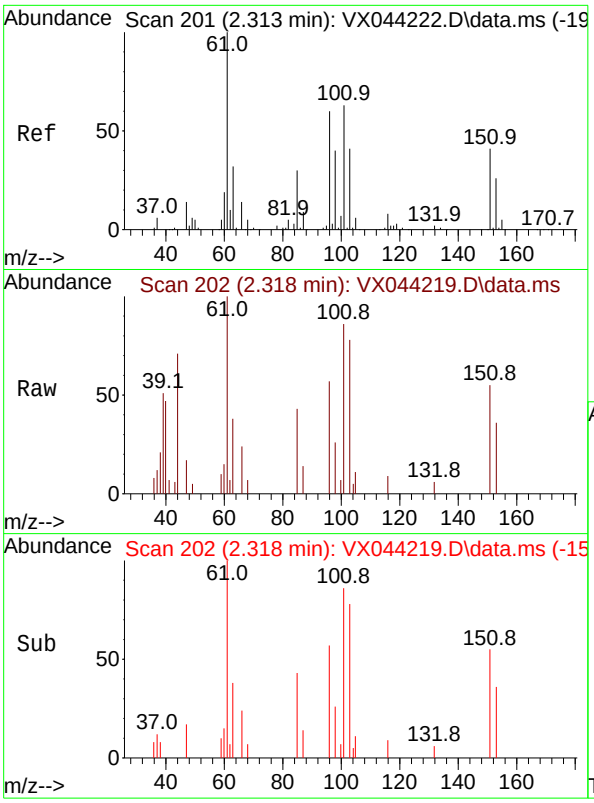


#8
Diethyl Ether
Concen: 1.130 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 74 Resp: 1651

Ion	Ratio	Lower	Upper
74	100		
45	118.0	48.4	145.0



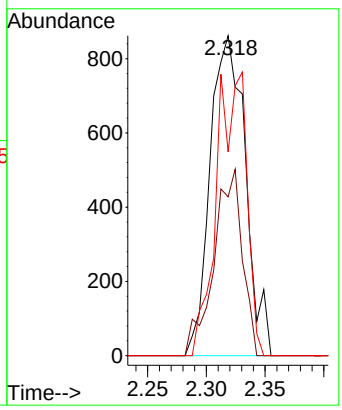


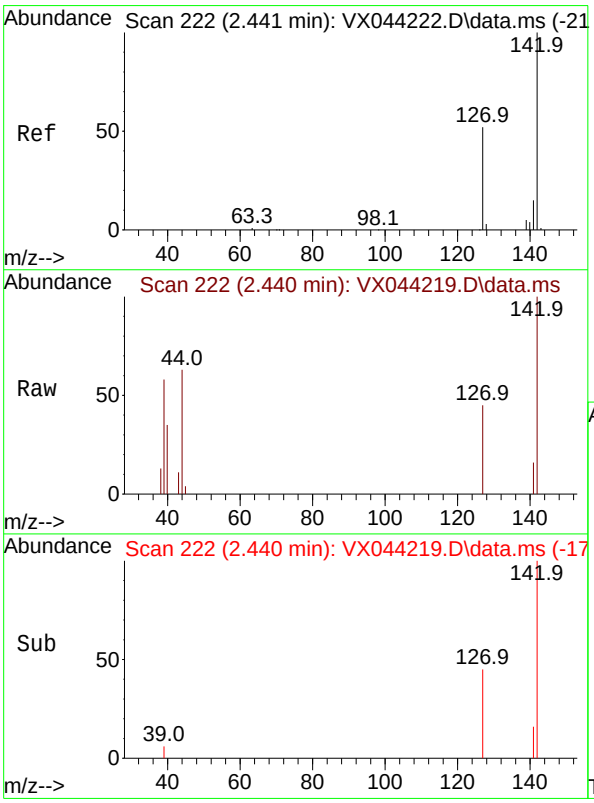
#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.037 ug/l
RT: 2.318 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 1796

Ion	Ratio	Lower	Upper
101	100		
85	47.3	38.5	57.7
151	76.1	55.8	83.6

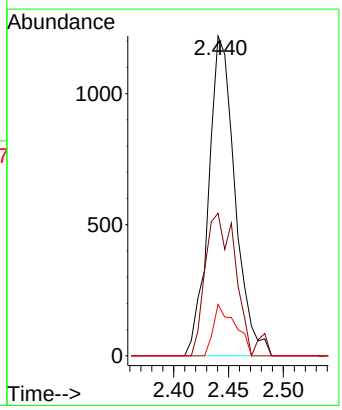


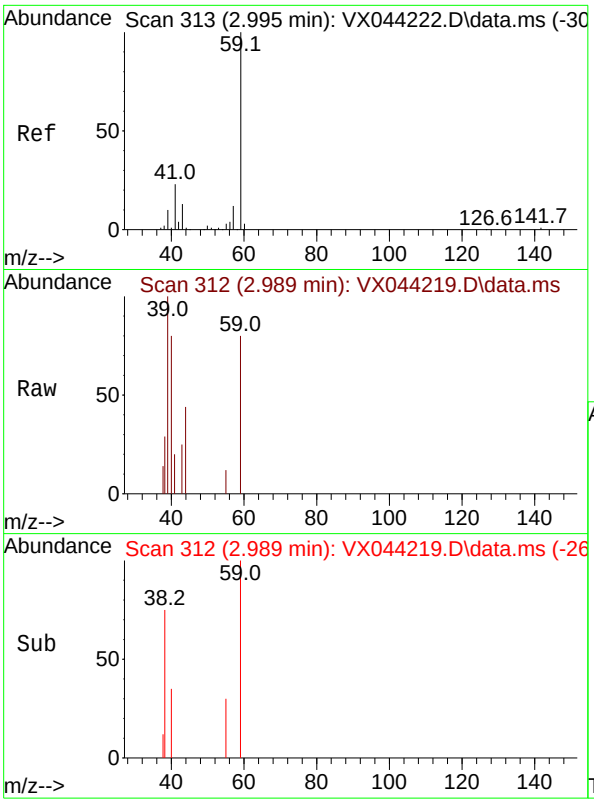


#10
Methyl Iodide
Concen: 0.896 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:142 Resp: 2045

Ion	Ratio	Lower	Upper
142	100		
127	52.6	41.8	62.8
141	13.4	11.5	17.3



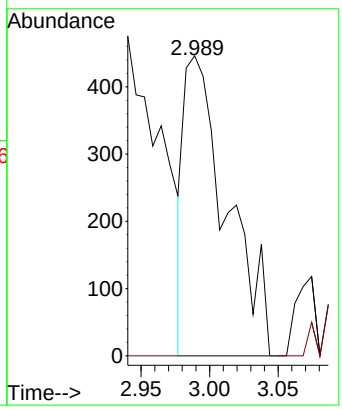


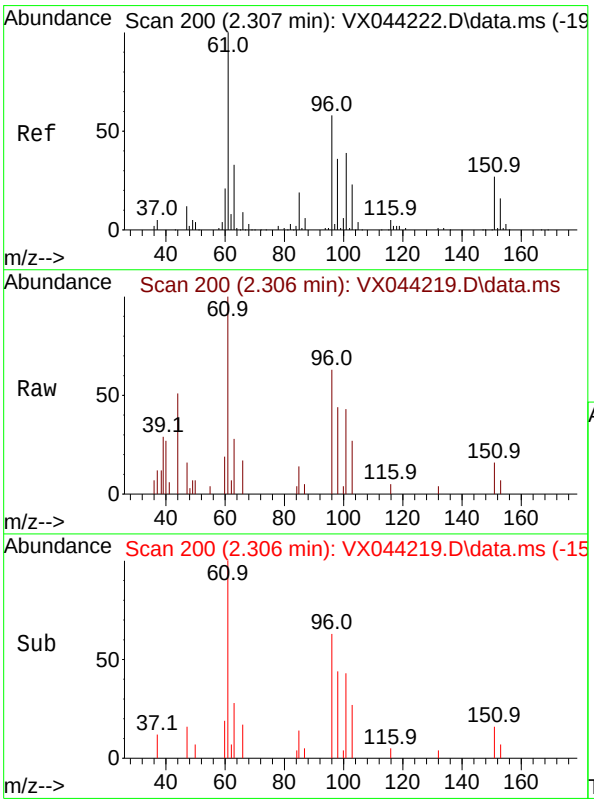
#11
Tert butyl alcohol
Concen: 2.776 ug/l
RT: 2.989 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 972

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.8	13.2#

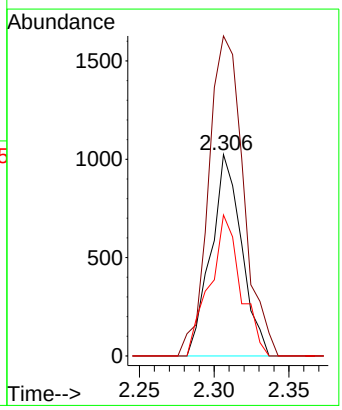


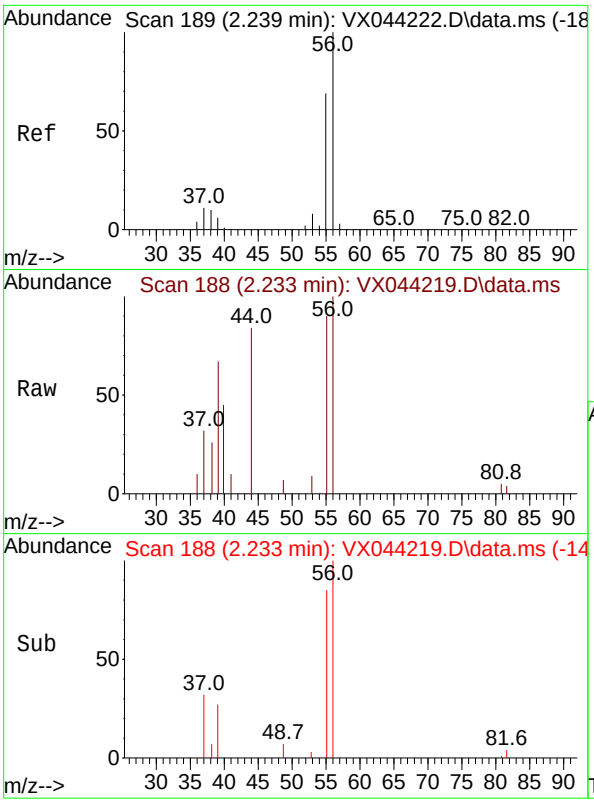


#12
1,1-Dichloroethene
Concen: 0.914 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 96 Resp: 1454

Ion	Ratio	Lower	Upper
96	100		
61	158.9	138.0	207.0
98	70.0	50.0	75.0



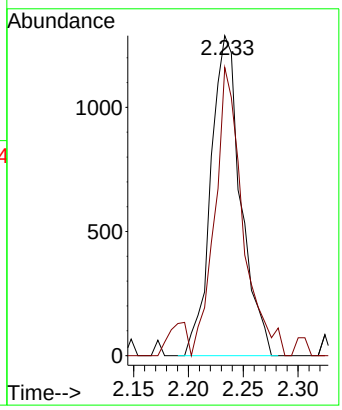


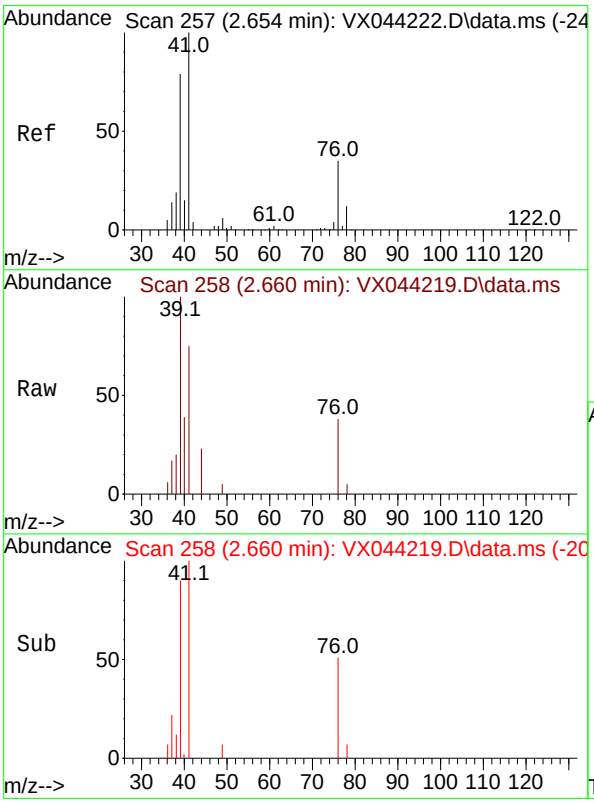
#13
Acrolein
Concen: 4.823 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 2449

Ion	Ratio	Lower	Upper
56	100		
55	84.0	56.6	84.8

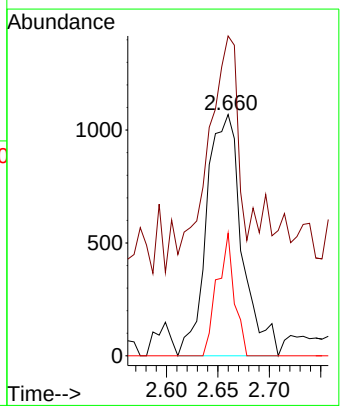


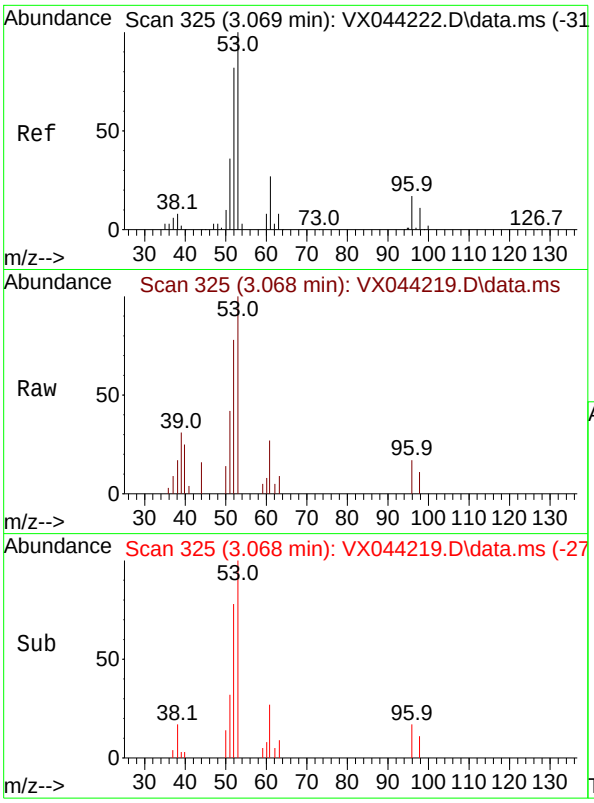


#14
Allyl chloride
Concen: 0.963 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 41 Resp: 2551

Ion	Ratio	Lower	Upper
41	100		
39	72.6	61.9	92.9
76	24.6	27.4	41.2#



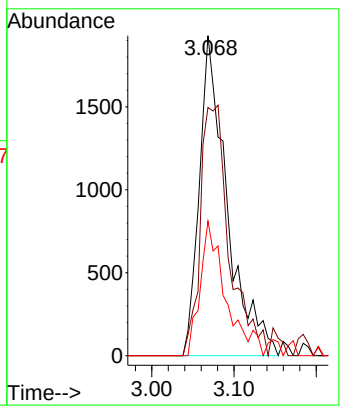


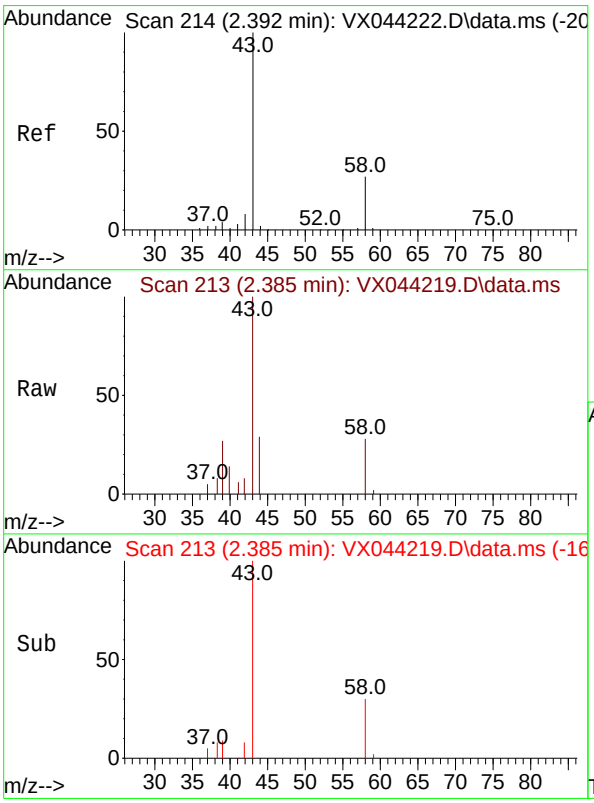
#15
Acrylonitrile
Concen: 4.660 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 53 Resp: 4528

Ion	Ratio	Lower	Upper
53	100		
52	81.4	67.4	101.0
51	38.3	30.3	45.5

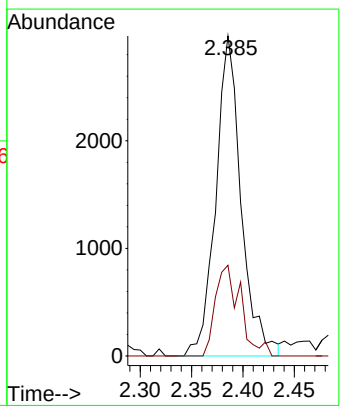


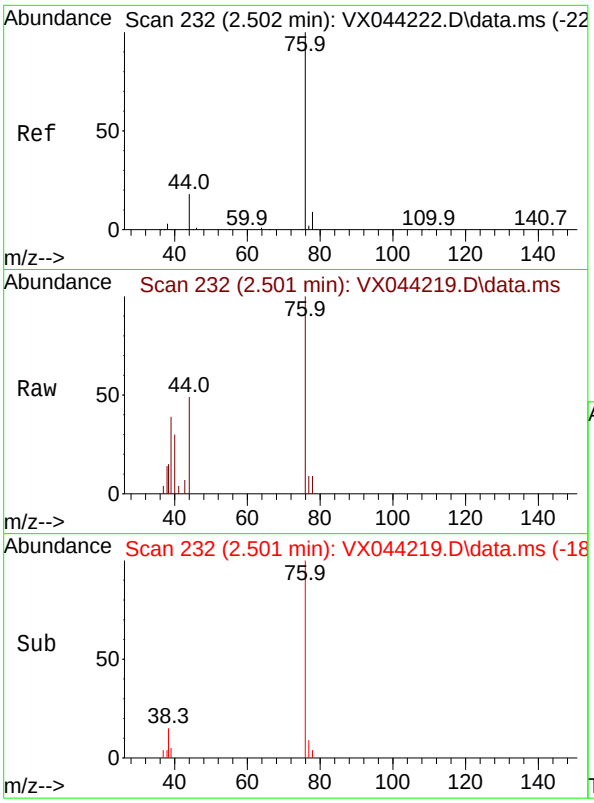


#16
Acetone
Concen: 5.022 ug/l
RT: 2.385 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 5096

Ion	Ratio	Lower	Upper
43	100		
58	28.3	21.6	32.4



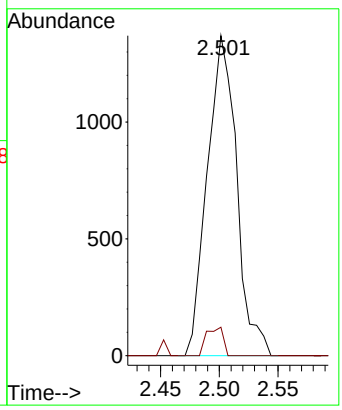


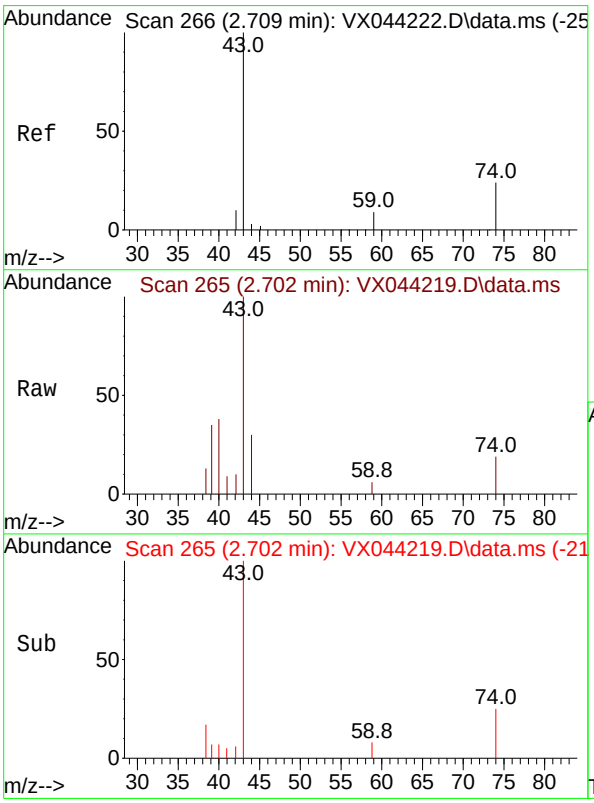
#17
Carbon Disulfide
Concen: 0.789 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 2387

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.0

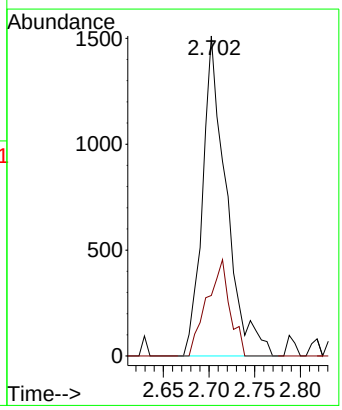


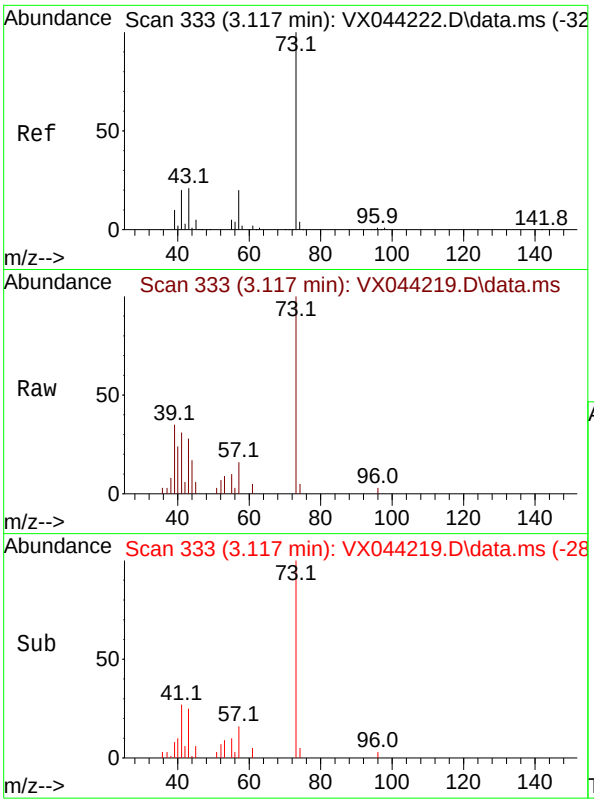


#18
Methyl Acetate
Concen: 1.047 ug/l
RT: 2.702 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 2739

Ion	Ratio	Lower	Upper
43	100		
74	28.9	17.7	26.5#



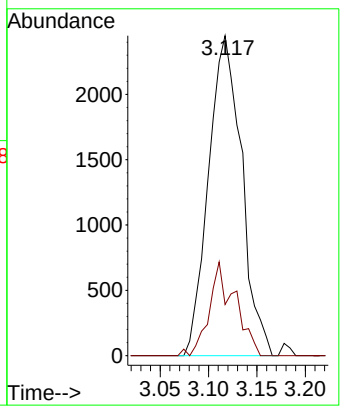


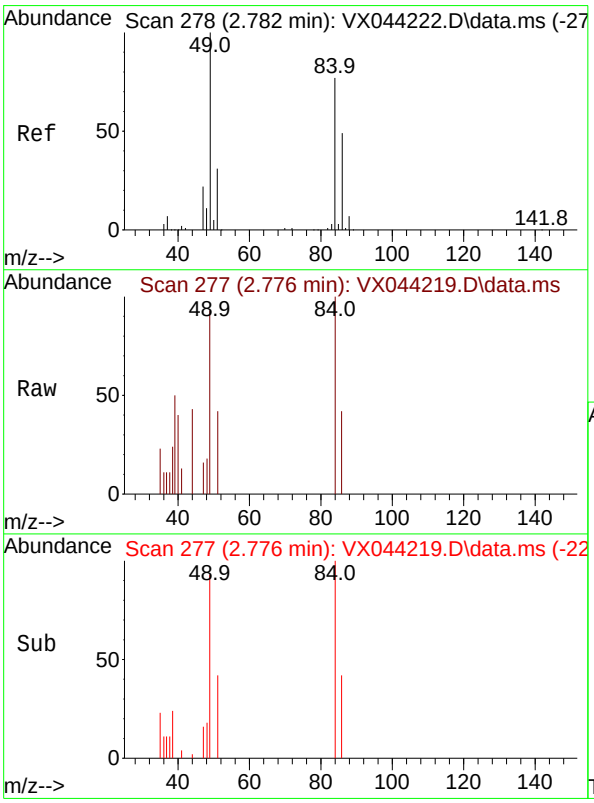
#19
Methyl tert-butyl Ether
Concen: 0.939 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 73 Resp: 5832

Ion	Ratio	Lower	Upper
73	100		
57	16.0	16.2	24.4#

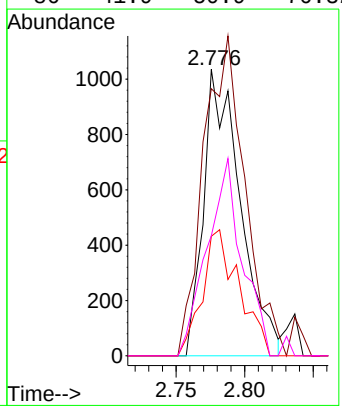


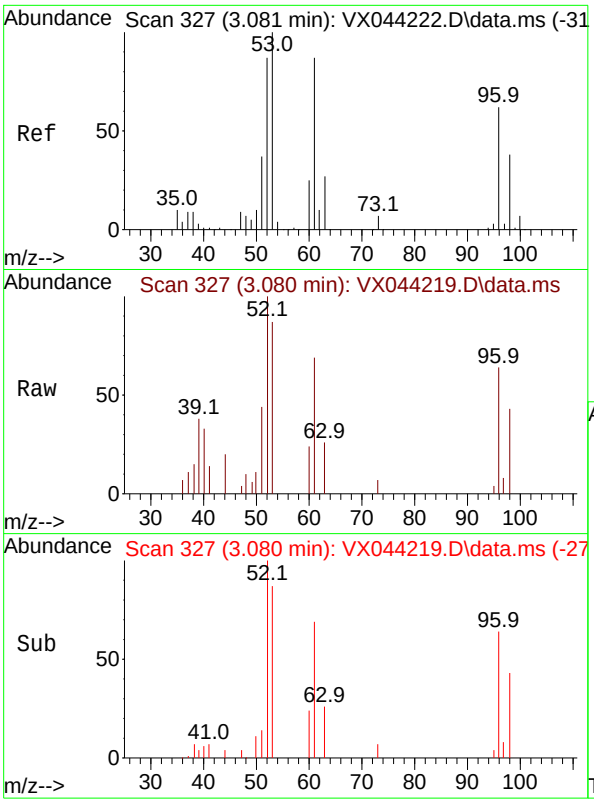


#20
Methylene Chloride
Concen: 1.012 ug/l
RT: 2.776 min Scan# 277
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 84 Resp: 1928

Ion	Ratio	Lower	Upper
84	100		
49	93.2	104.2	156.4#
51	41.7	32.2	48.4
86	41.9	50.9	76.3#



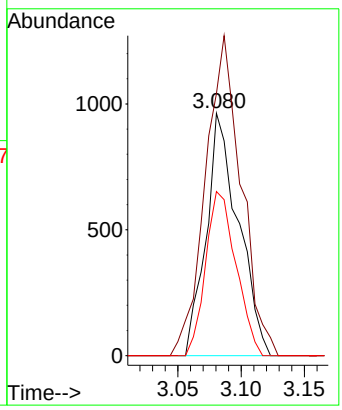


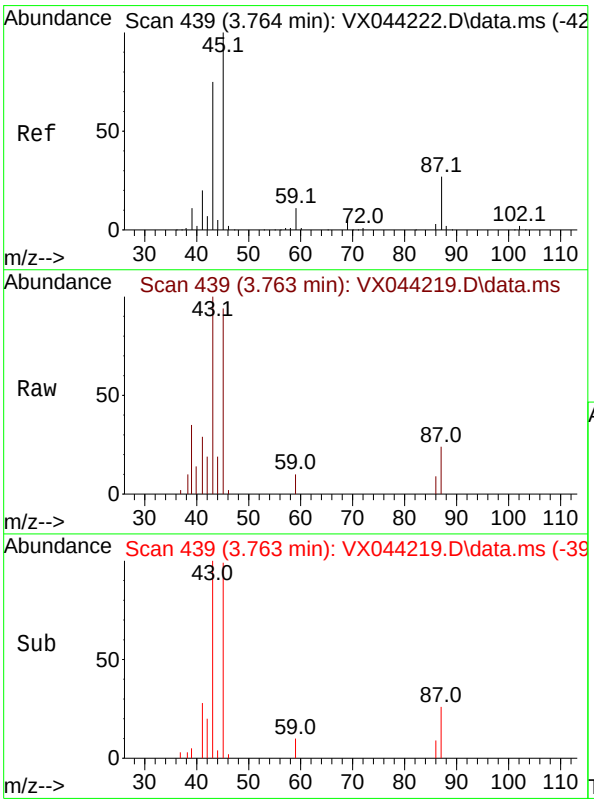
#21
trans-1,2-Dichloroethene
Concen: 1.007 ug/l
RT: 3.080 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1703

Ion	Ratio	Lower	Upper
96	100		
61	108.1	112.0	168.0#
98	67.7	48.8	73.2

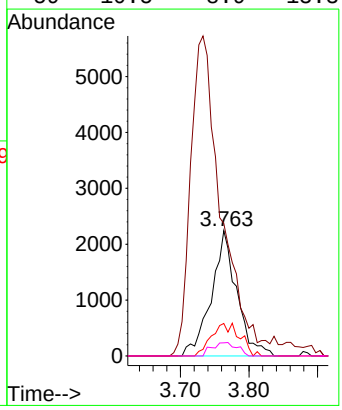


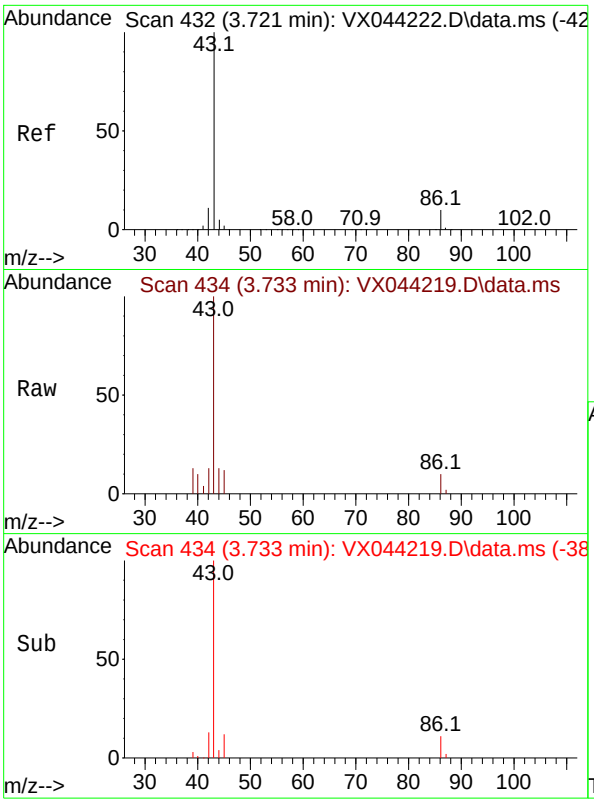


#22
Diisopropyl ether
Concen: 0.971 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 45 Resp: 5792

Ion	Ratio	Lower	Upper
45	100		
43	96.8	60.2	90.2#
87	25.9	21.2	31.8
59	10.5	8.9	13.3



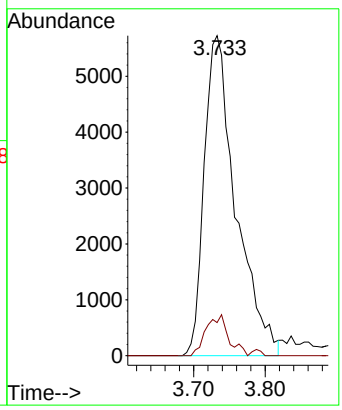


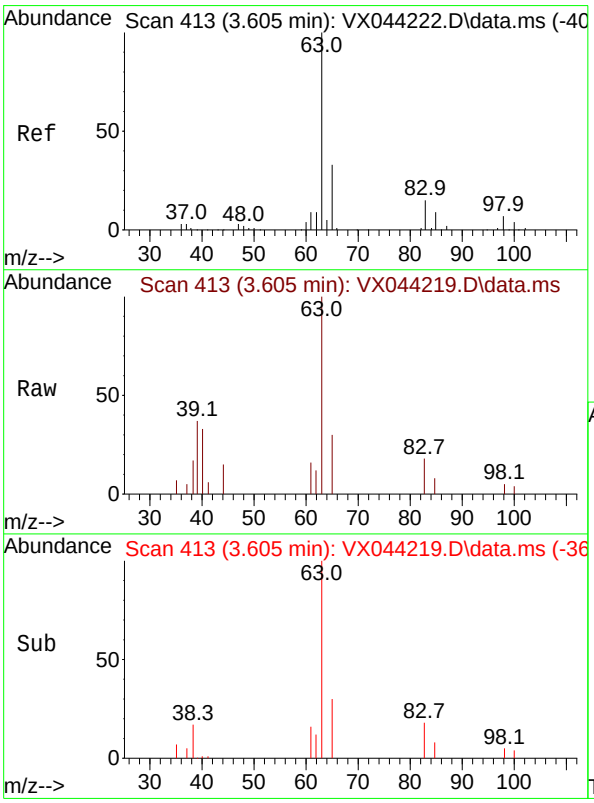
#23
Vinyl Acetate
Concen: 3.623 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 17578

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.2	12.2

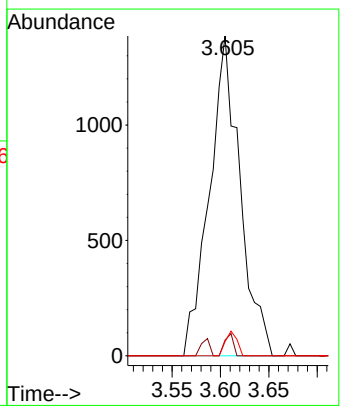


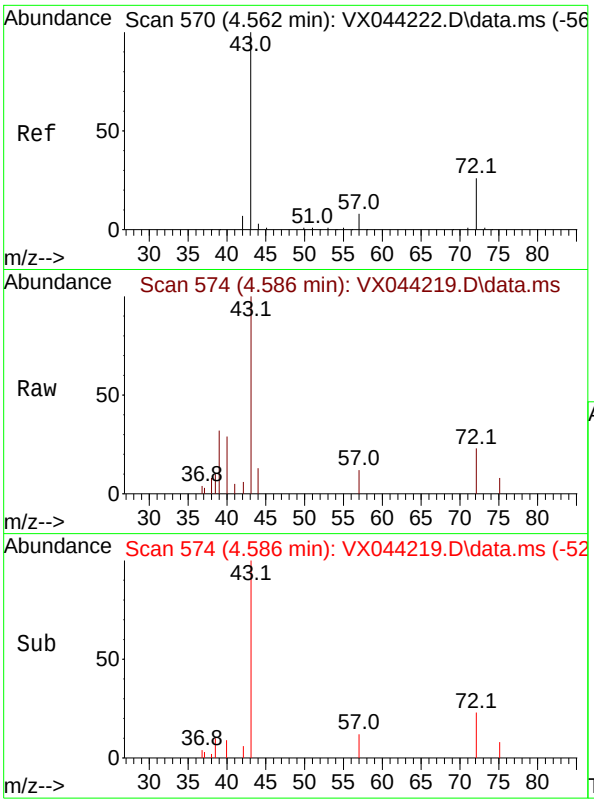


#24
1,1-Dichloroethane
Concen: 0.914 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 63 Resp: 3040

Ion	Ratio	Lower	Upper
63	100		
98	4.9	3.6	10.8
100	4.5	2.1	6.3



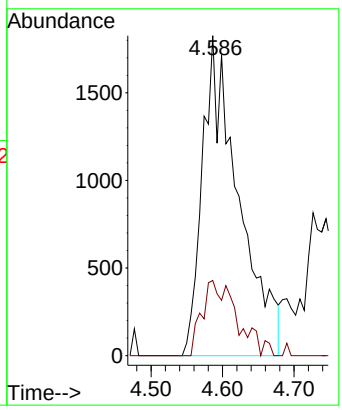


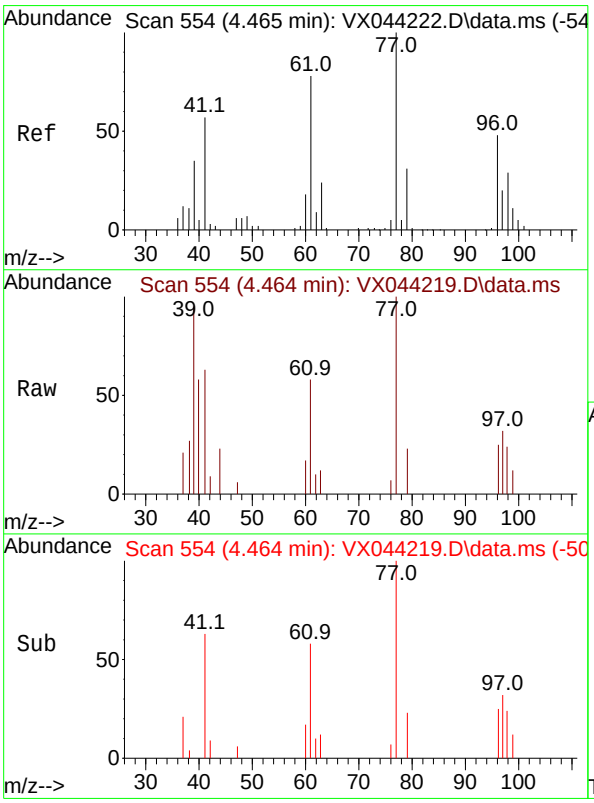
#25
2-Butanone
Concen: 4.423 ug/l
RT: 4.586 min Scan# 5
Delta R.T. 0.024 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 6380

Ion	Ratio	Lower	Upper
43	100		
72	23.5	20.2	30.4

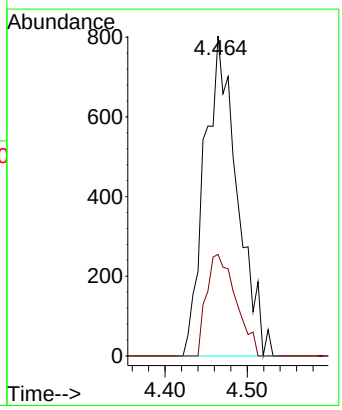


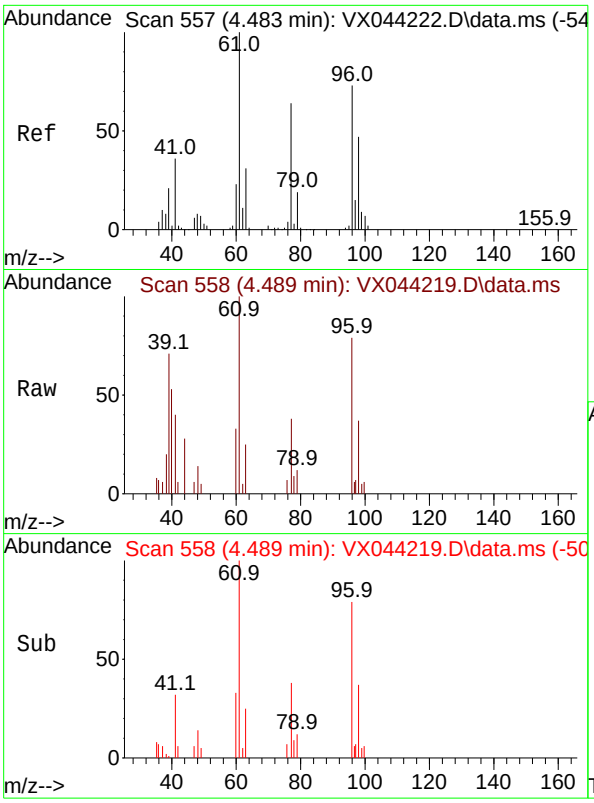


#26
2,2-Dichloropropane
Concen: 0.821 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 77 Resp: 2220

Ion	Ratio	Lower	Upper
77	100		
97	28.4	10.7	32.1



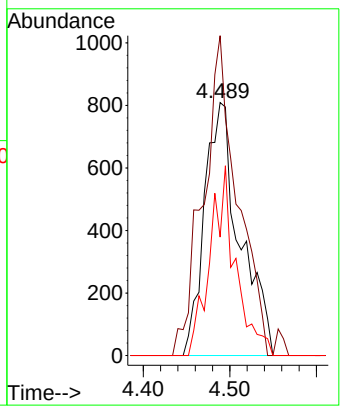


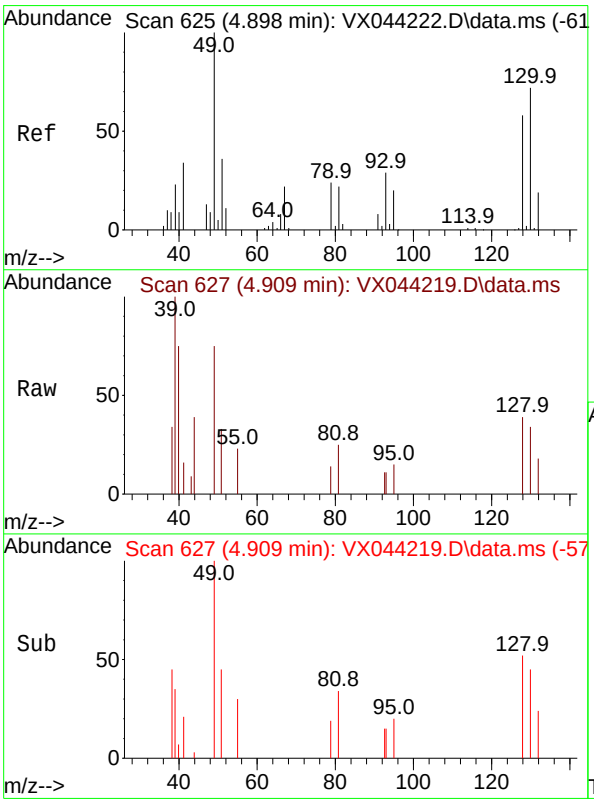
#27
cis-1,2-Dichloroethene
Concen: 1.069 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 2296

Ion	Ratio	Lower	Upper
96	100		
61	122.2	0.0	299.0
98	54.0	0.0	129.0

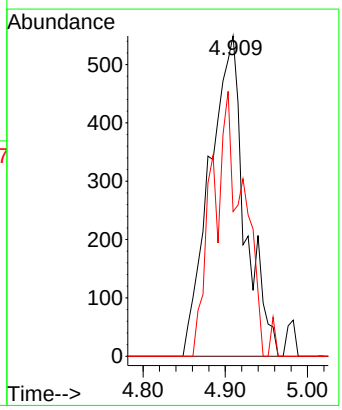


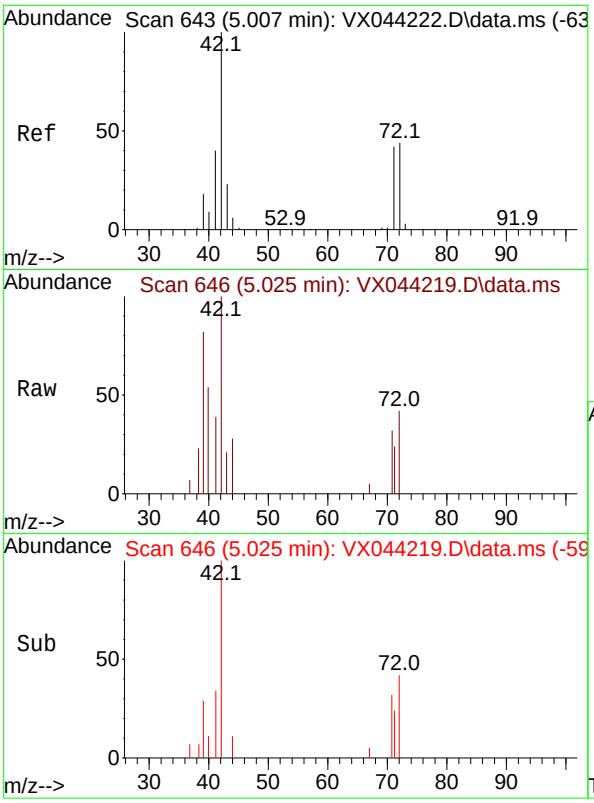


#28
Bromochloromethane
Concen: 1.006 ug/l
RT: 4.909 min Scan# 627
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 49 Resp: 1641

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	52.7	62.1	93.1#



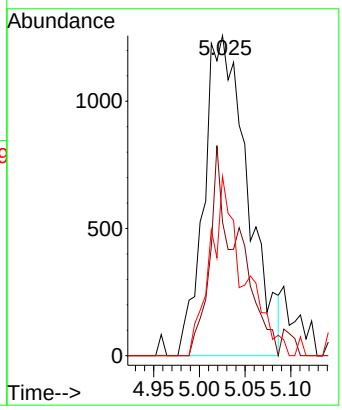


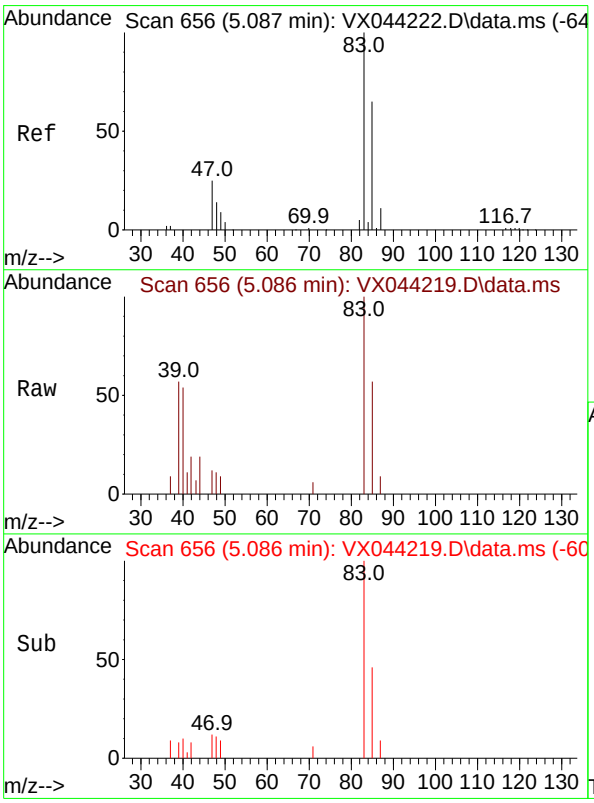
#29
Tetrahydrofuran
Concen: 4.491 ug/l
RT: 5.025 min Scan# 6
Delta R.T. 0.018 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 4158

Ion	Ratio	Lower	Upper
42	100		
72	27.0	37.0	55.6#
71	43.1	33.6	50.4

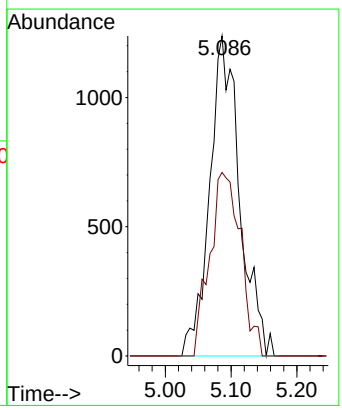


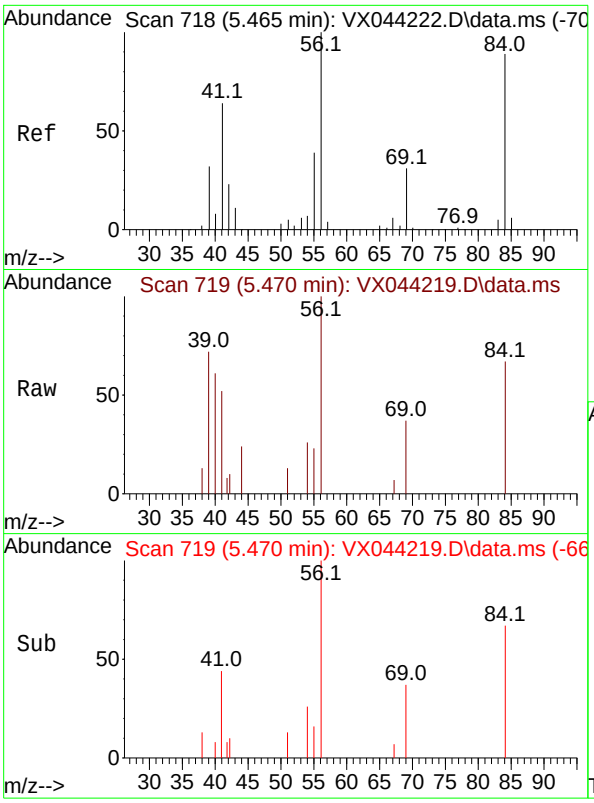


#30
Chloroform
Concen: 1.055 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 83 Resp: 3943

Ion	Ratio	Lower	Upper
83	100		
85	57.4	51.6	77.4



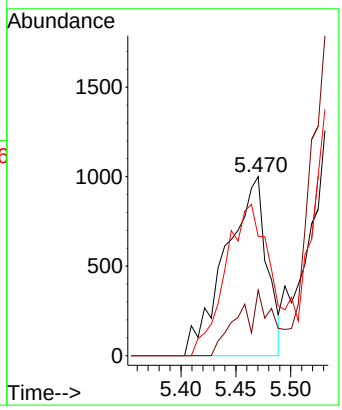


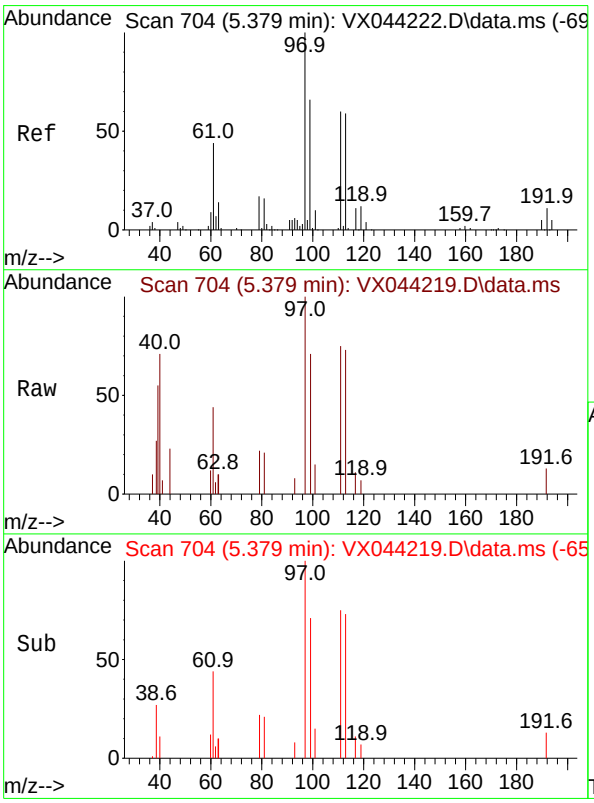
#31
Cyclohexane
Concen: 0.966 ug/l
RT: 5.470 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 2594

Ion	Ratio	Lower	Upper
56	100		
69	36.5	24.7	37.1
84	66.7	71.0	106.6#

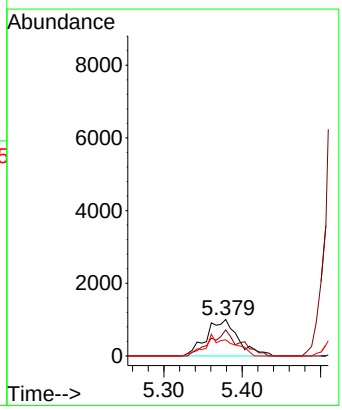


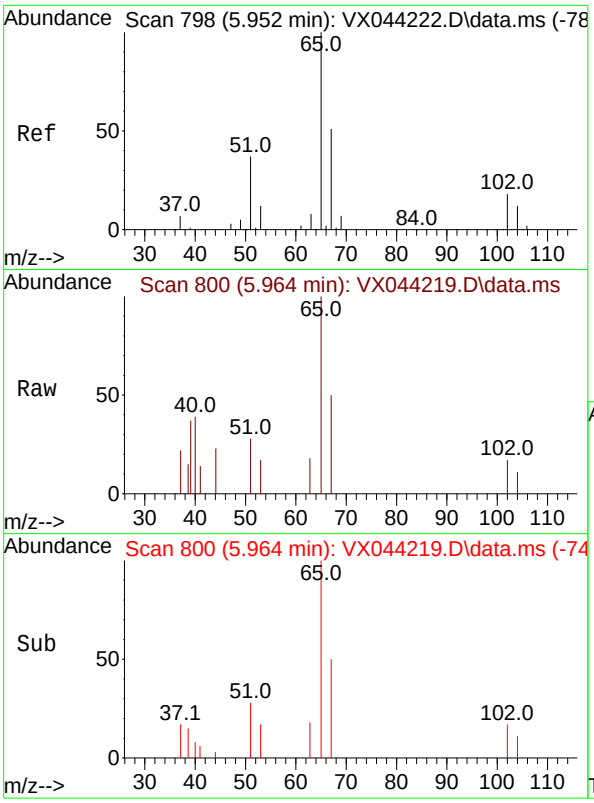


#32
1,1,1-Trichloroethane
Concen: 0.908 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 97 Resp: 2818

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.8	76.2#
61	49.9	35.2	52.8



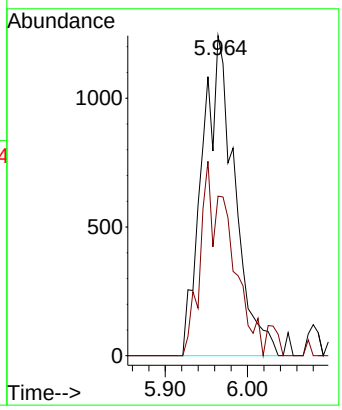


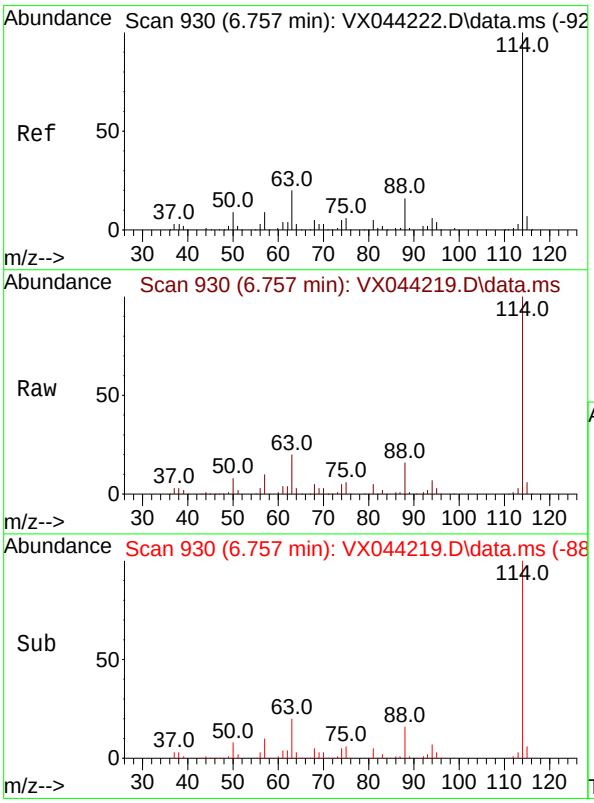
#33
1,2-Dichloroethane-d4
Concen: 1.369 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 65 Resp: 3407

Ion	Ratio	Lower	Upper
65	100		
67	24.2	0.0	101.6

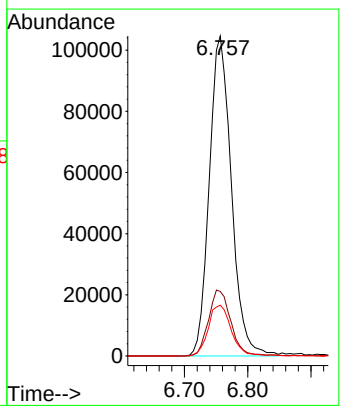


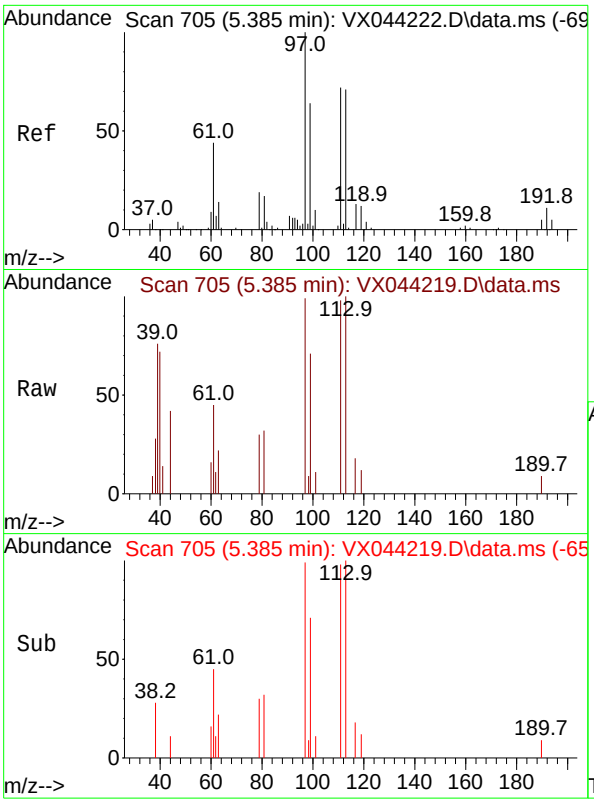


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:114 Resp: 253574

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	40.6
88	15.8	0.0	31.8



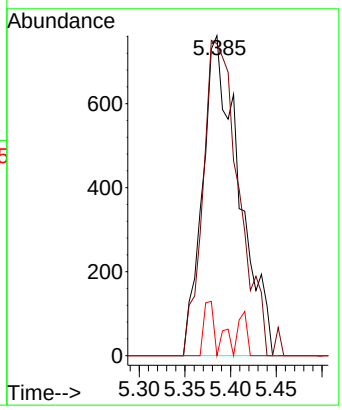


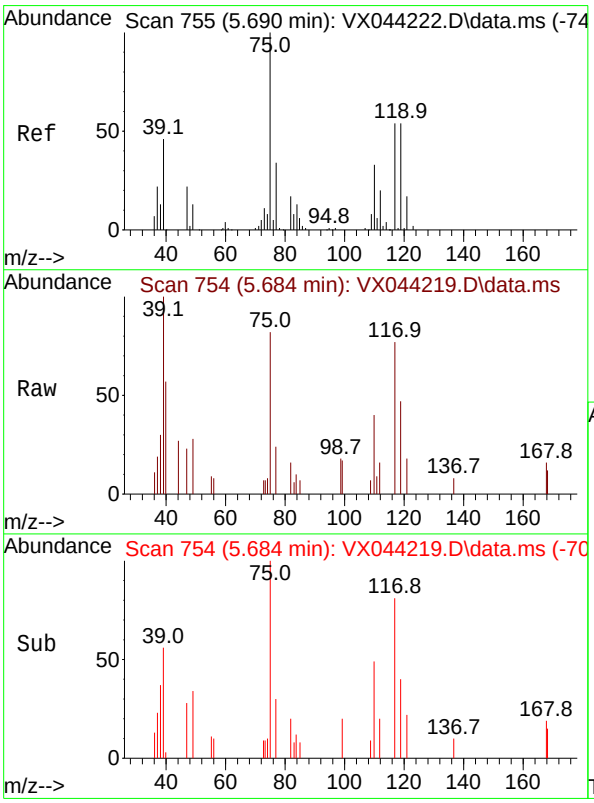
#35
Dibromofluoromethane
Concen: 1.205 ug/l
RT: 5.385 min Scan# 7(
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:113 Resp: 2117

Ion	Ratio	Lower	Upper
113	100		
111	96.5	80.4	120.6
192	5.4	13.3	19.9#

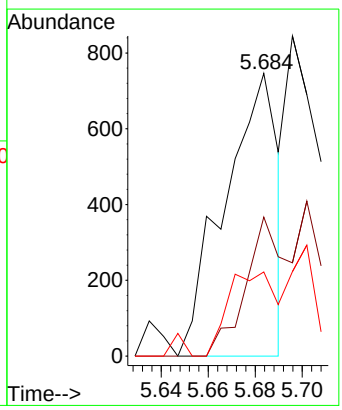


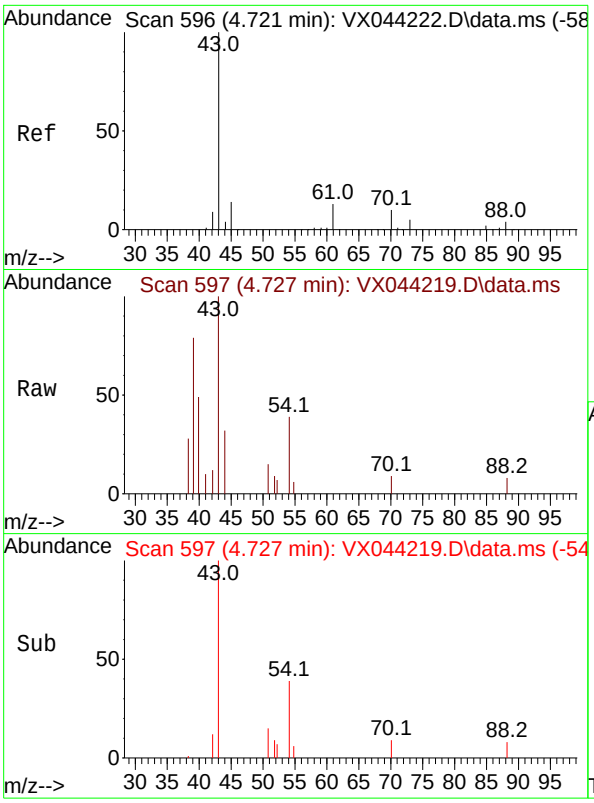


#36
1,1-Dichloropropene
Concen: 0.519 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 1178

Ion	Ratio	Lower	Upper
75	100		
110	38.7	17.3	51.7
77	26.7	25.4	38.0



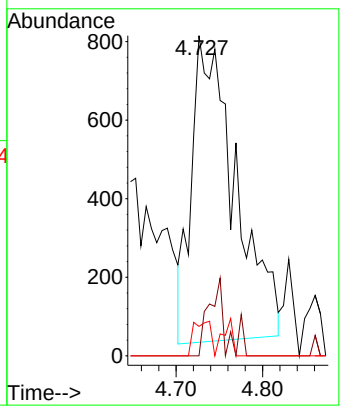


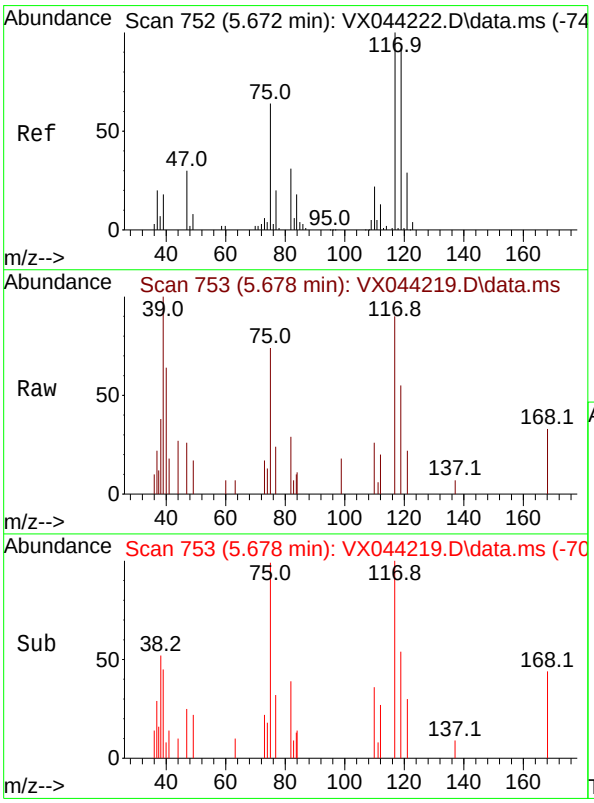
#37
Ethyl Acetate
Concen: 0.969 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 2718

Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.8	14.8#
70	0.0	7.7	11.5#

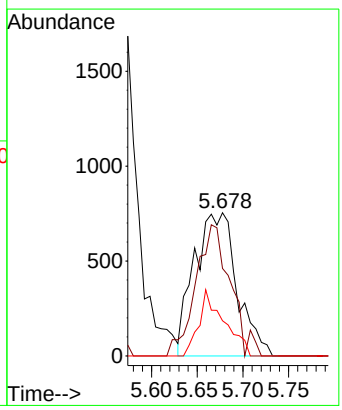


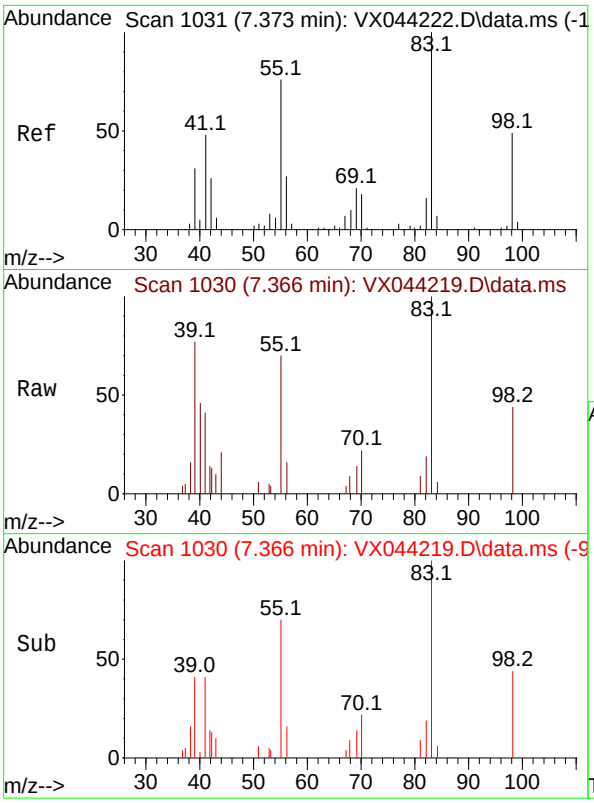


#38
Carbon Tetrachloride
Concen: 1.004 ug/l
RT: 5.678 min Scan# 753
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:117 Resp: 2454

Ion	Ratio	Lower	Upper
117	100		
119	61.1	74.2	111.4#
121	24.5	23.0	34.6



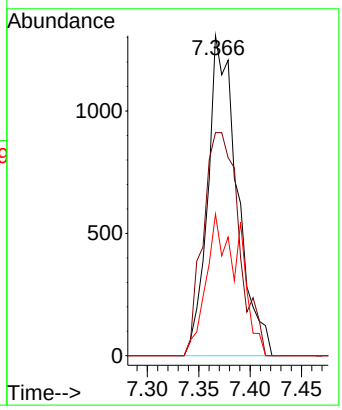


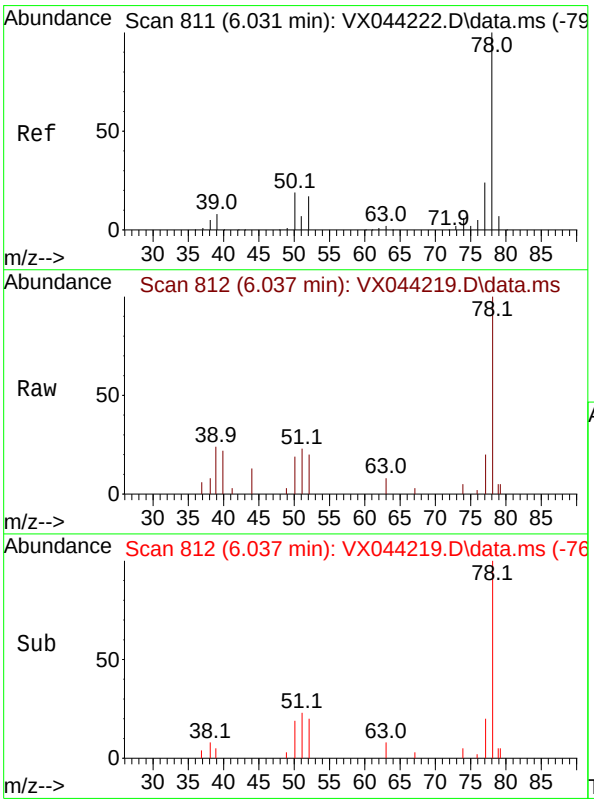
#39
Methylcyclohexane
Concen: 0.960 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2606

Ion	Ratio	Lower	Upper
83	100		
55	69.7	60.7	91.1
98	44.3	38.9	58.3

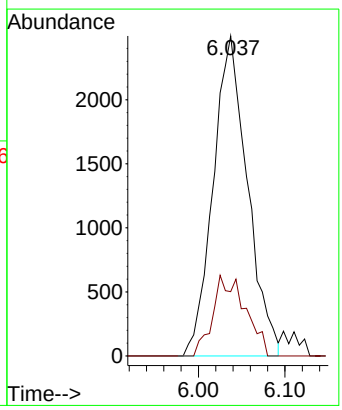


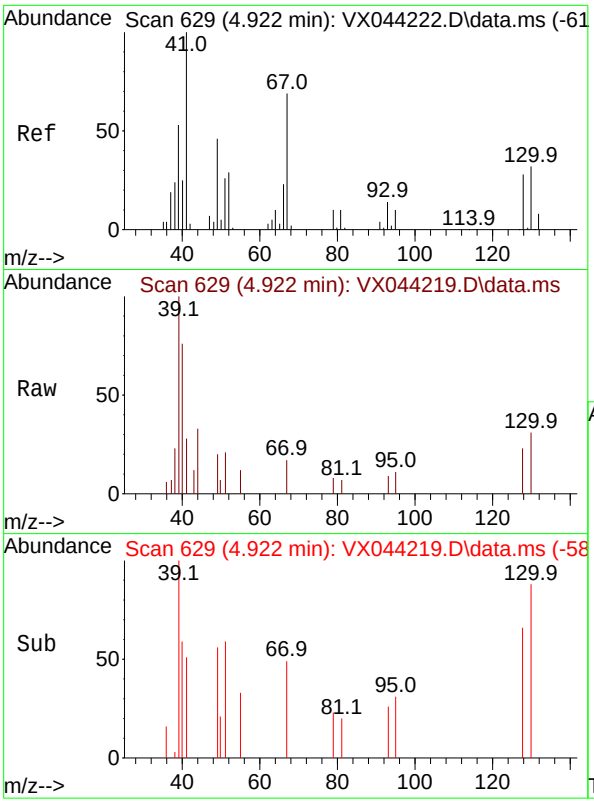


#40
Benzene
Concen: 0.996 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 78 Resp: 6864

Ion	Ratio	Lower	Upper
78	100		
77	20.1	19.3	28.9



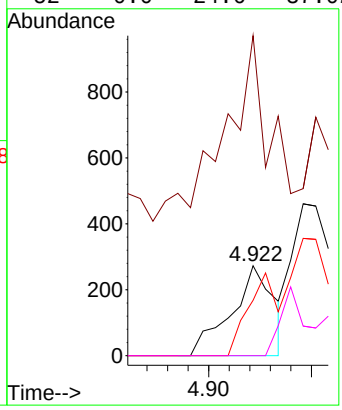


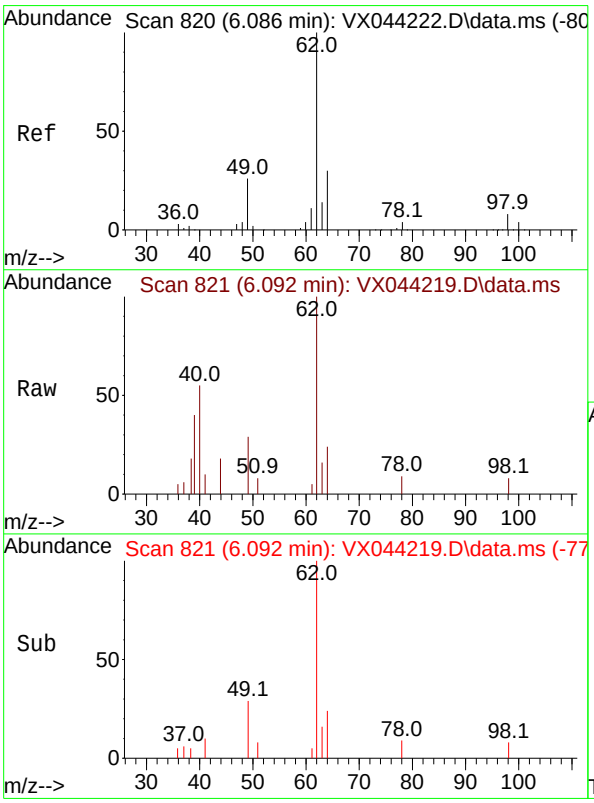
#41
Methacrylonitrile
Concen: 0.262 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 390

Ion	Ratio	Lower	Upper
41	100		
39	216.9	44.2	66.4#
67	0.0	57.2	85.8#
52	0.0	24.6	37.0#

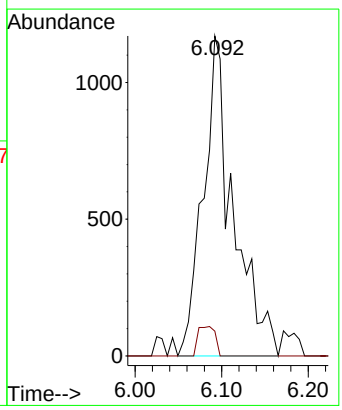


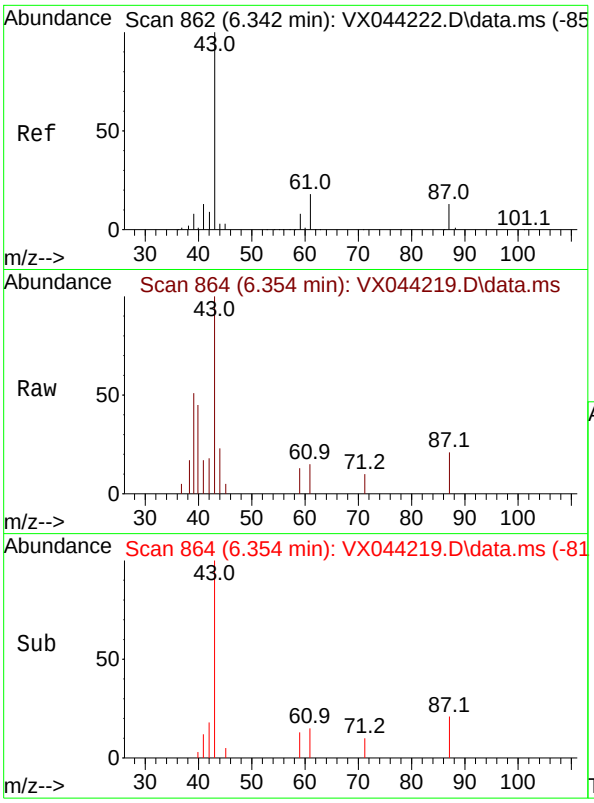


#42
1,2-Dichloroethane
Concen: 0.990 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 62 Resp: 2810

Ion	Ratio	Lower	Upper
62	100		
98	5.3	0.0	15.8



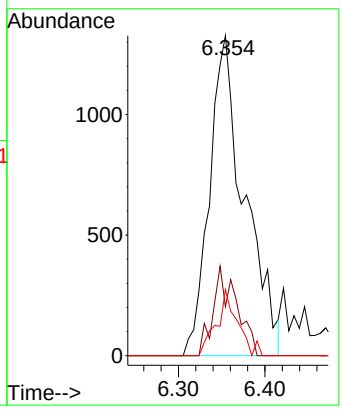


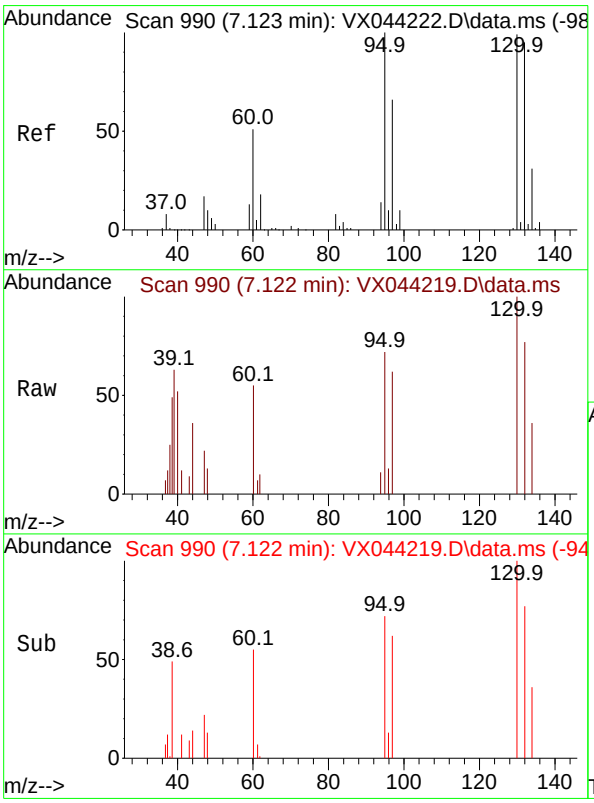
#43
Isopropyl Acetate
Concen: 0.851 ug/l
RT: 6.354 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 3734

Ion	Ratio	Lower	Upper
43	100		
61	18.9	14.2	21.2
87	12.4	10.2	15.2

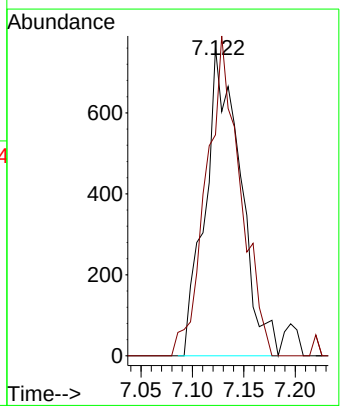


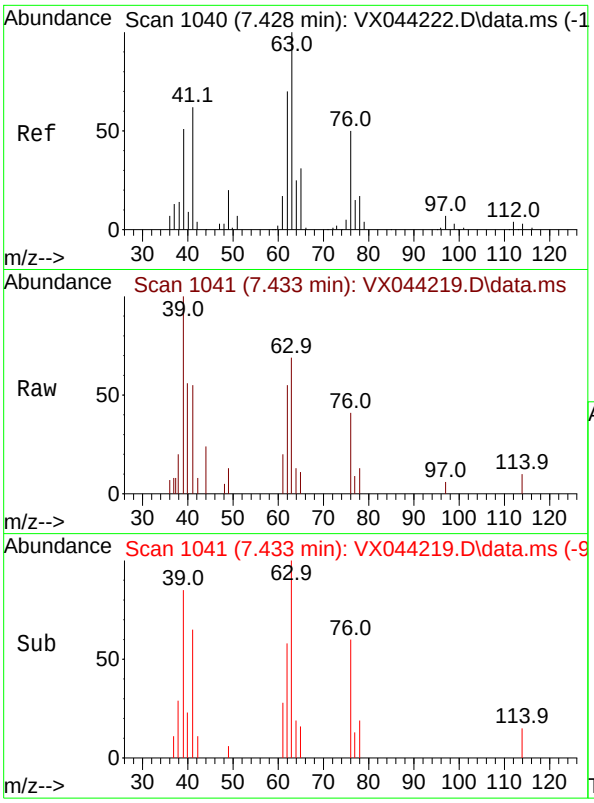


#44
Trichloroethene
Concen: 1.051 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:130 Resp: 1806

Ion	Ratio	Lower	Upper
130	100		
95	71.7	0.0	201.4



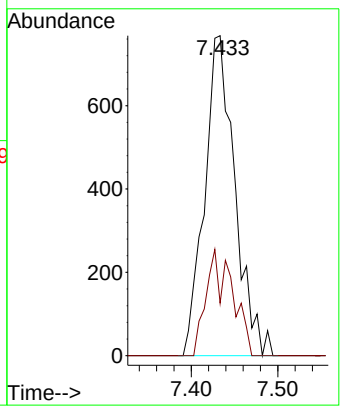


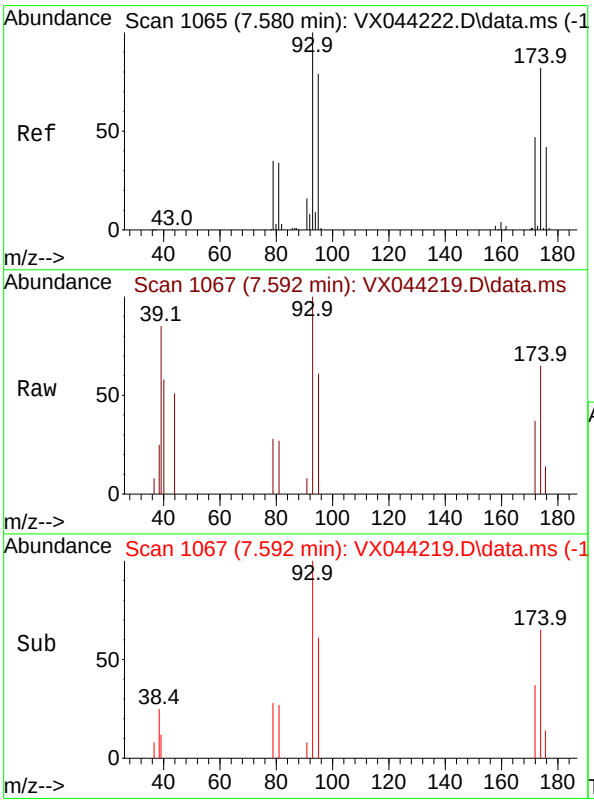
#45
1,2-Dichloropropane
Concen: 1.059 ug/l
RT: 7.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 1865

Ion	Ratio	Lower	Upper
63	100		
65	16.4	24.6	37.0#

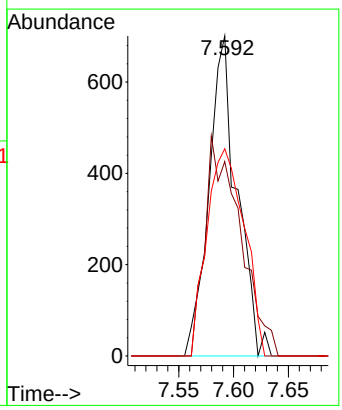


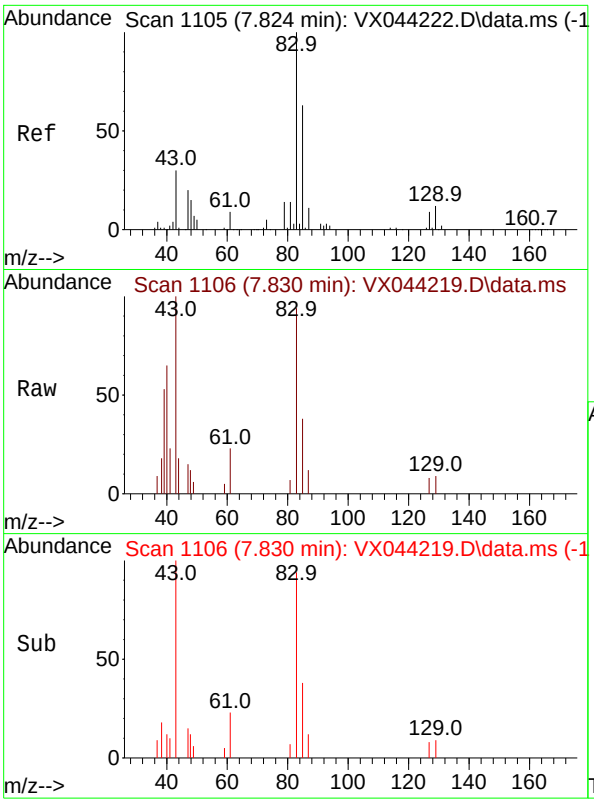


#46
Dibromomethane
Concen: 0.916 ug/l
RT: 7.592 min Scan# 1067
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 93 Resp: 1251

Ion	Ratio	Lower	Upper
93	100		
95	85.8	65.4	98.2
174	86.3	67.9	101.9



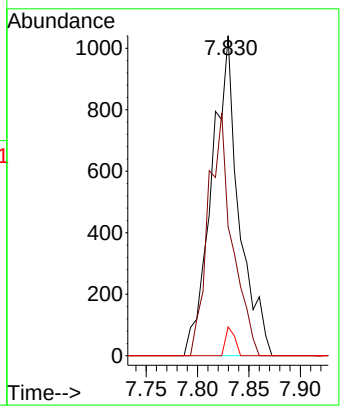


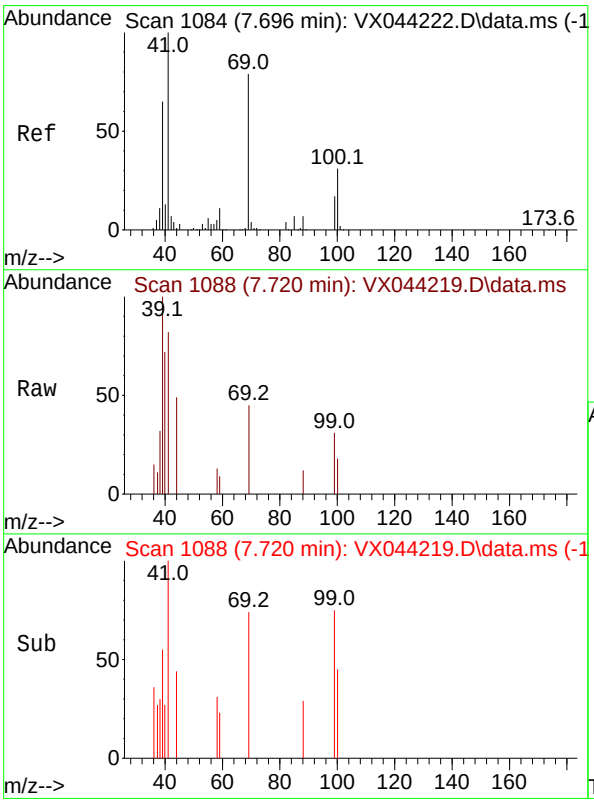
#47
Bromodichloromethane
Concen: 0.816 ug/l
RT: 7.830 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 1926

Ion	Ratio	Lower	Upper
83	100		
85	40.3	50.6	75.8#
127	9.0	7.3	10.9

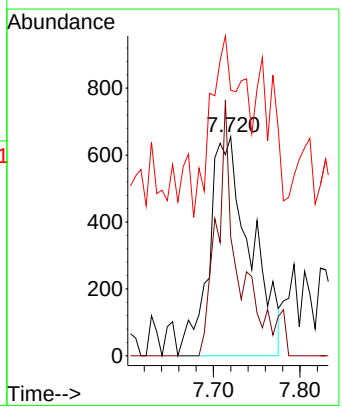


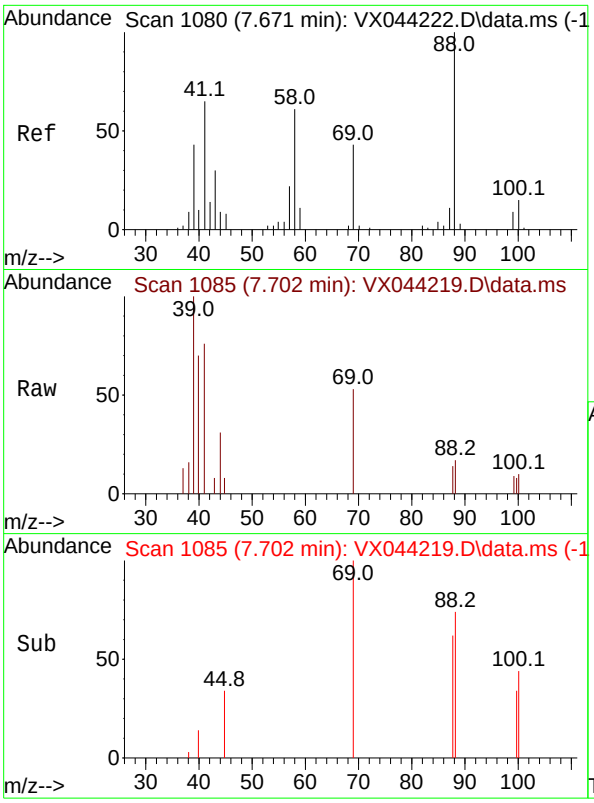


#48
Methyl methacrylate
Concen: 1.018 ug/l
RT: 7.720 min Scan# 1088
Delta R.T. 0.024 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 41 Resp: 2168

Ion	Ratio	Lower	Upper
41	100		
69	43.9	62.4	93.6#
39	64.1	53.3	79.9



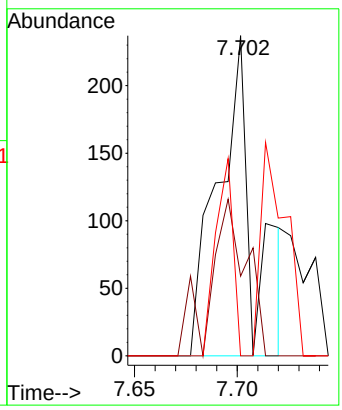


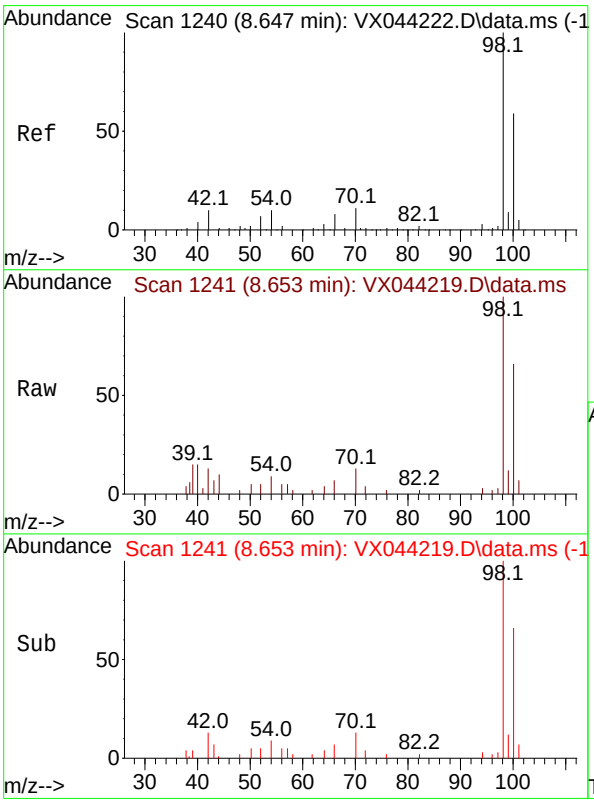
#49
1,4-Dioxane
Concen: 7.943 ug/l
RT: 7.702 min Scan# 1
Delta R.T. 0.030 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 88 Resp: 289

Ion	Ratio	Lower	Upper
88	100		
43	49.1	27.1	40.7#
58	30.1	41.0	61.4#

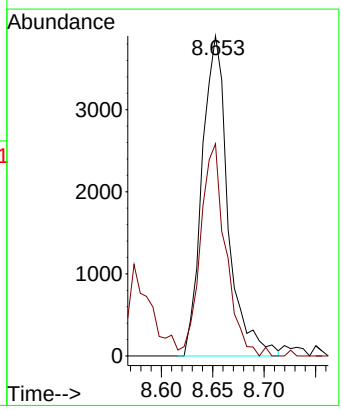


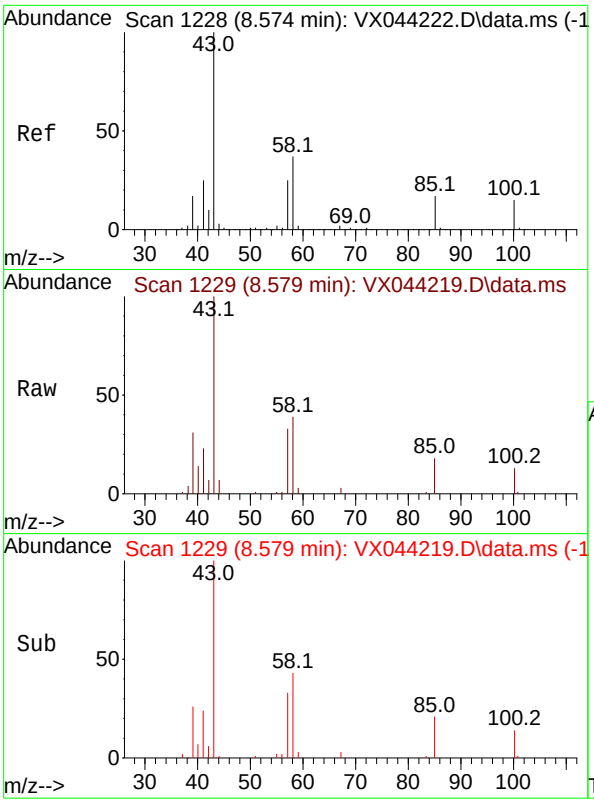


#50
Toluene-d8
Concen: 1.156 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 98 Resp: 6848

Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.5	77.3



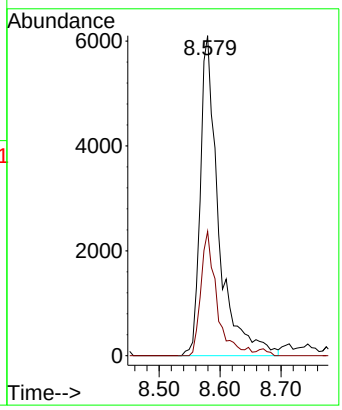


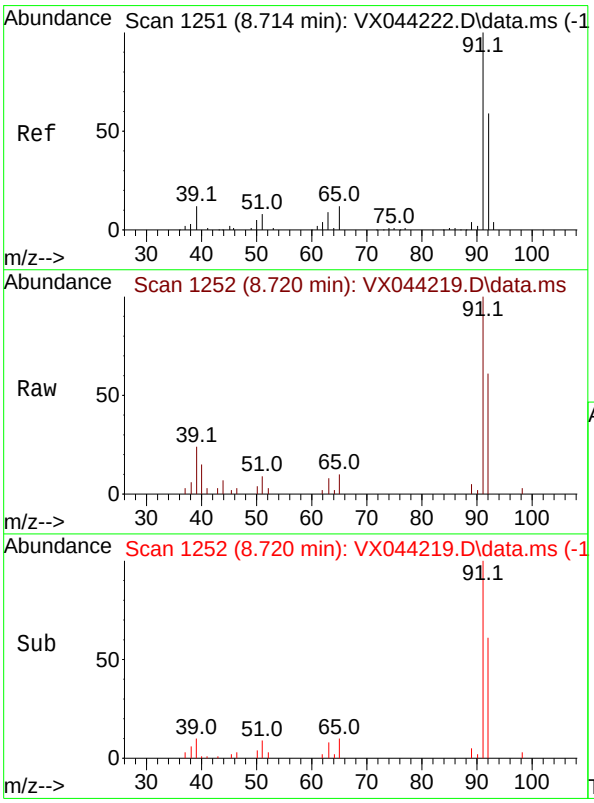
#51
4-Methyl-2-Pentanone
Concen: 4.547 ug/l
RT: 8.579 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 12824

Ion	Ratio	Lower	Upper
43	100		
58	34.0	29.4	44.0

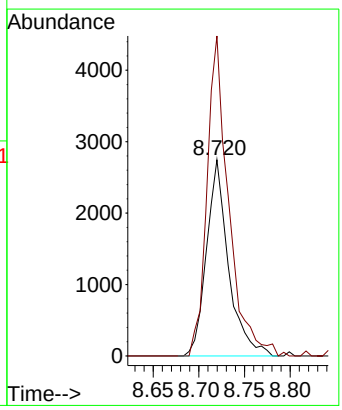


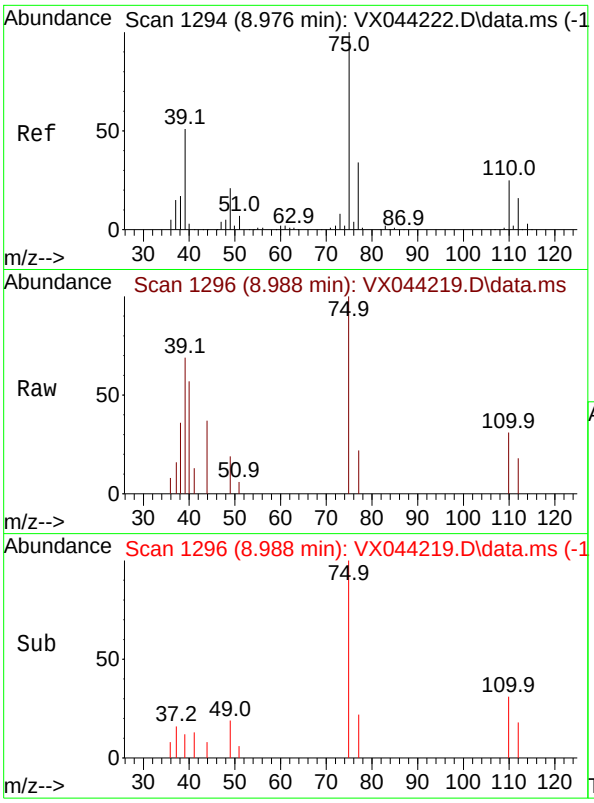


#52
Toluene
Concen: 1.064 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 92 Resp: 4606

Ion	Ratio	Lower	Upper
92	100		
91	160.1	137.0	205.6



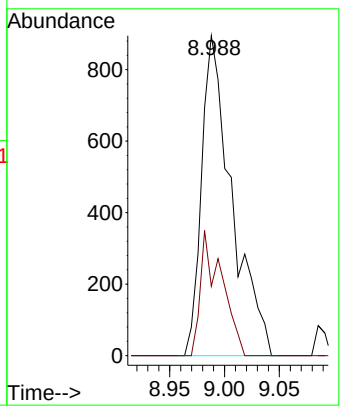


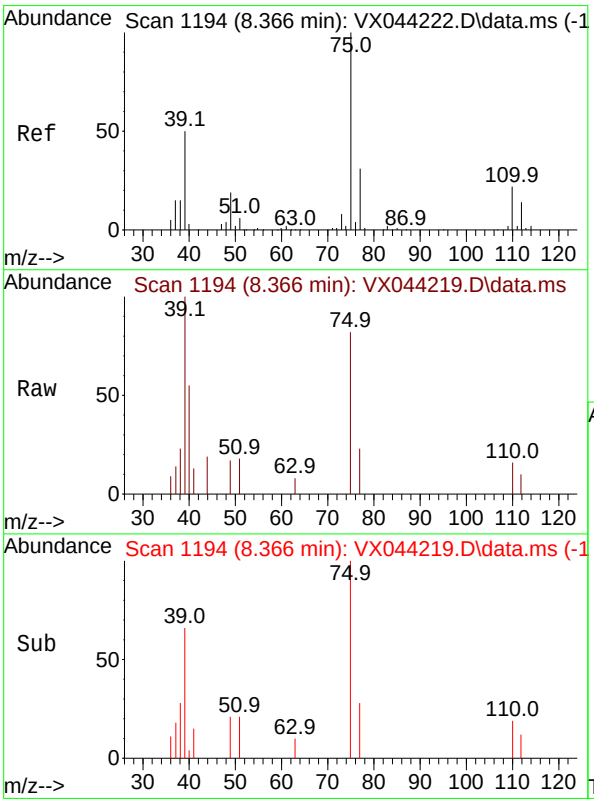
#53
t-1,3-Dichloropropene
Concen: 1.694 ug/l
RT: 8.988 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 1716

Ion	Ratio	Lower	Upper
75	100		
77	21.7	27.2	40.8#

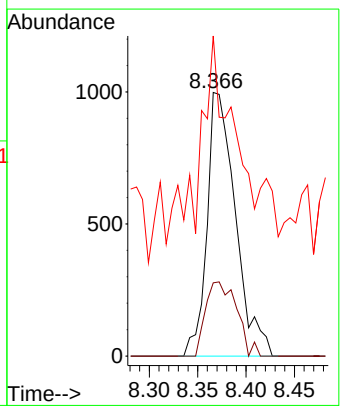


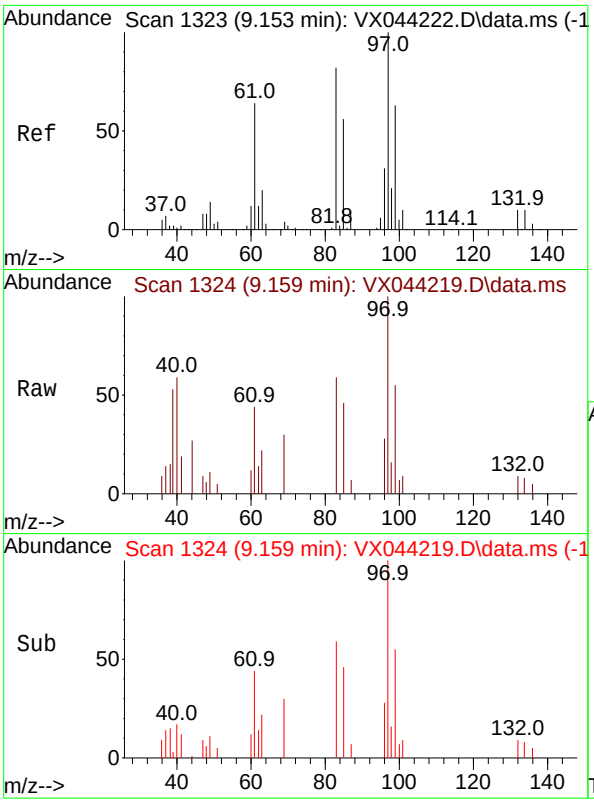


#54
cis-1,3-Dichloropropene
Concen: 0.797 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 2048

Ion	Ratio	Lower	Upper
75	100		
77	27.8	24.7	37.1
39	76.2	40.3	60.5#



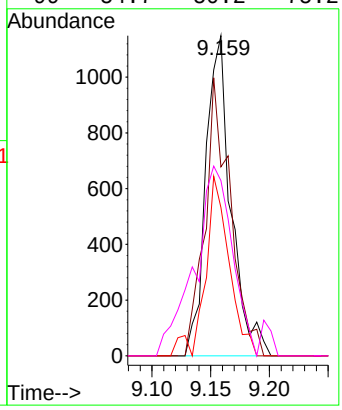


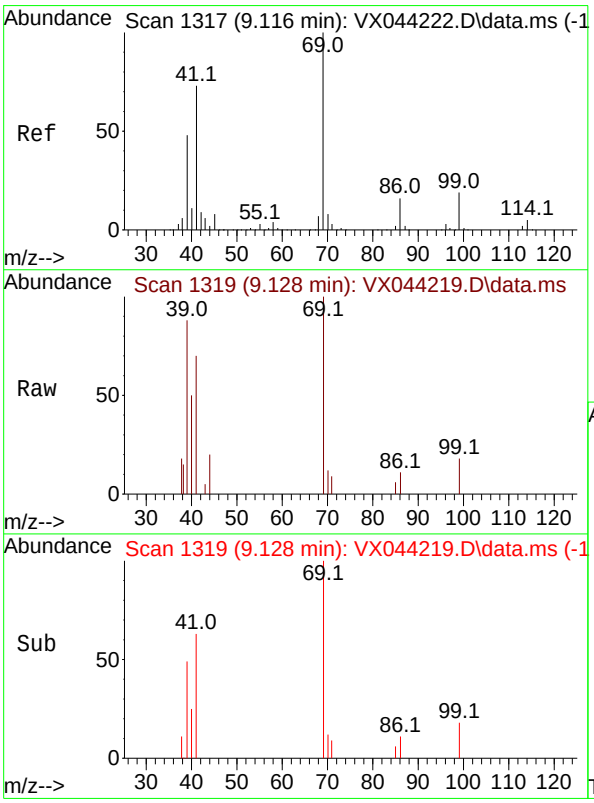
#55
1,1,2-Trichloroethane
Concen: 0.994 ug/l
RT: 9.159 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 1710

Ion	Ratio	Lower	Upper
97	100		
83	59.0	65.3	97.9#
85	46.3	44.6	67.0
99	54.7	50.2	75.2

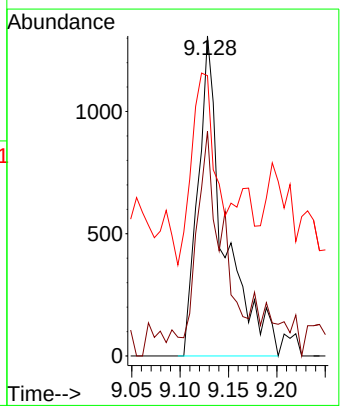


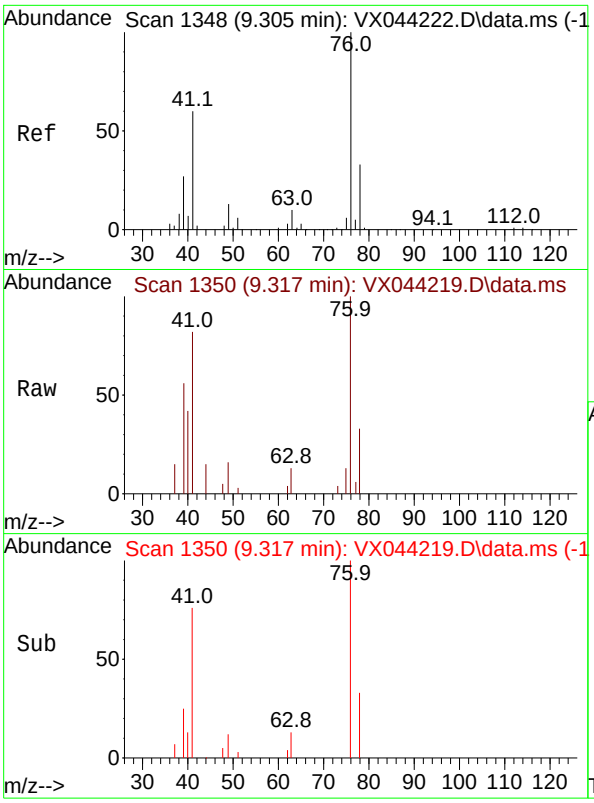


#56
Ethyl methacrylate
Concen: 0.917 ug/l
RT: 9.128 min Scan# 1319
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 69 Resp: 2490

Ion	Ratio	Lower	Upper
69	100		
41	55.7	56.6	85.0#
39	53.1	37.4	56.0



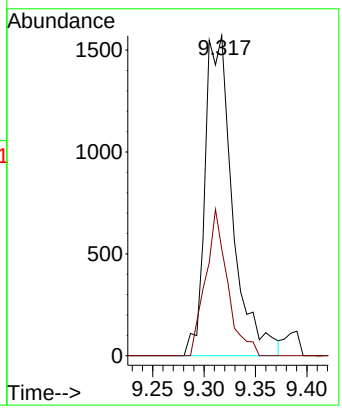


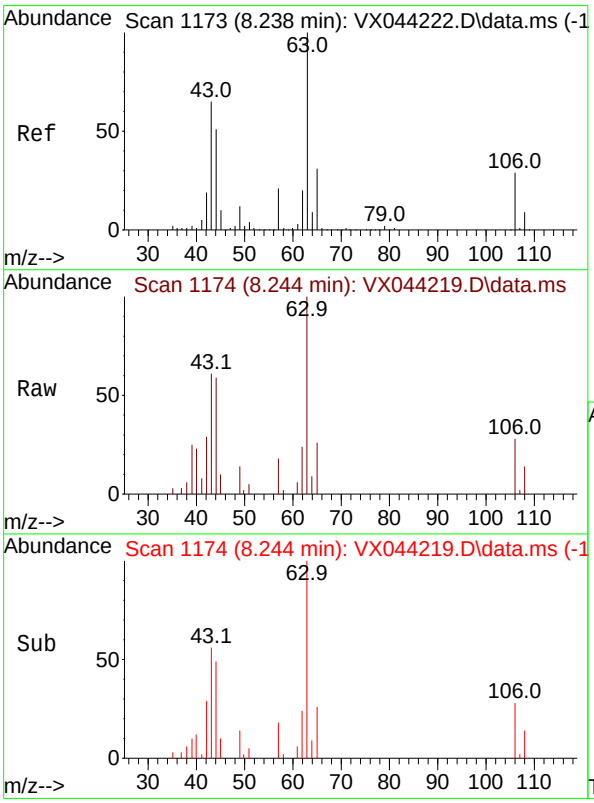
#57
1,3-Dichloropropane
Concen: 0.979 ug/l
RT: 9.317 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 2929

Ion	Ratio	Lower	Upper
76	100		
78	36.5	26.5	39.7

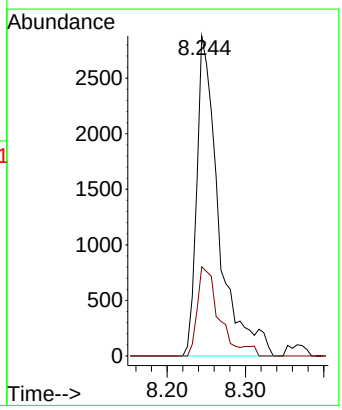


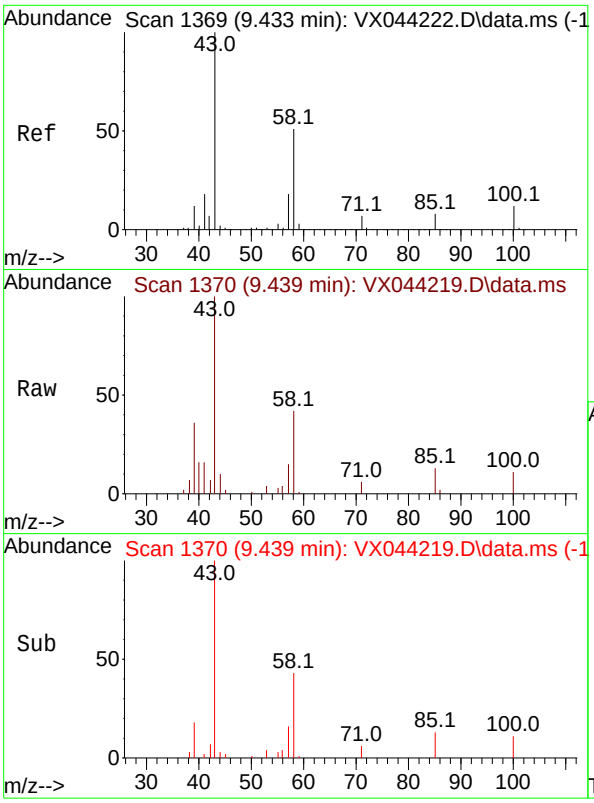


#58
2-Chloroethyl Vinyl ether
Concen: 4.105 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 63 Resp: 5621

Ion	Ratio	Lower	Upper
63	100		
106	26.2	22.8	34.2



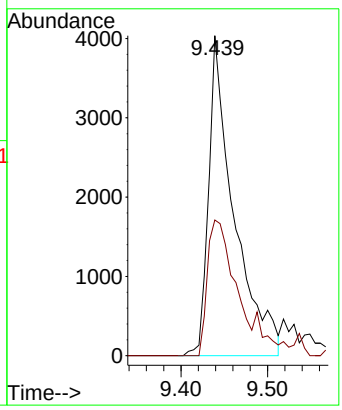


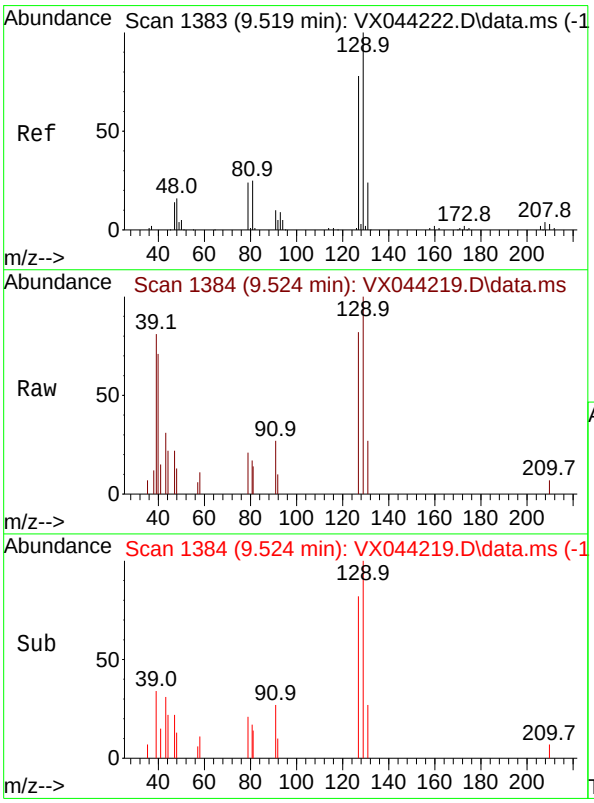
#59
2-Hexanone
Concen: 4.017 ug/l
RT: 9.439 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 8199

Ion	Ratio	Lower	Upper
43	100		
58	52.5	25.7	77.0

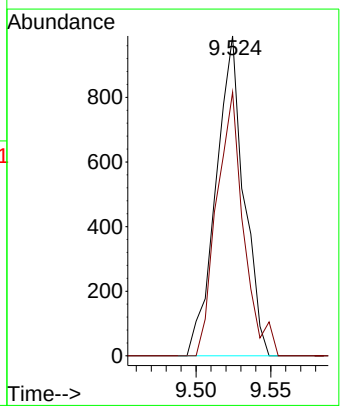


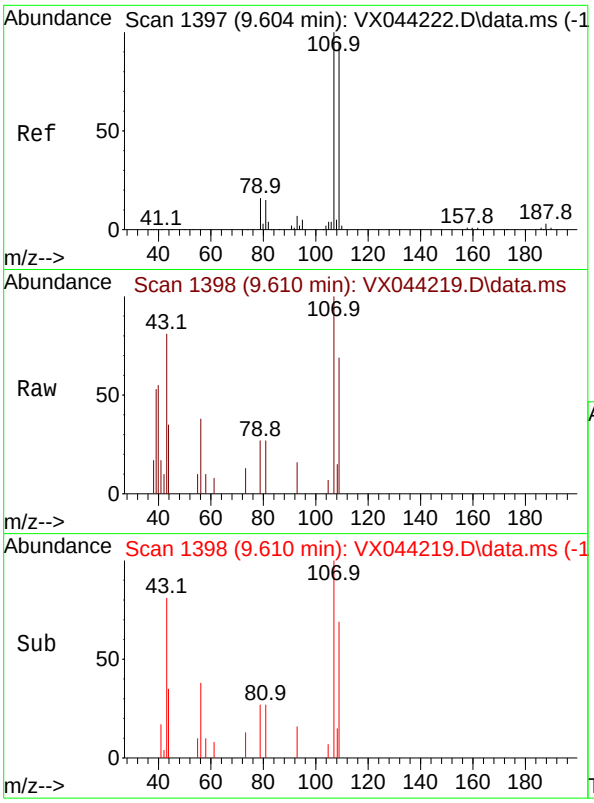


#60
Dibromochloromethane
Concen: 1.953 ug/l
RT: 9.524 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:129 Resp: 1289

Ion	Ratio	Lower	Upper
129	100		
127	79.2	38.5	115.3



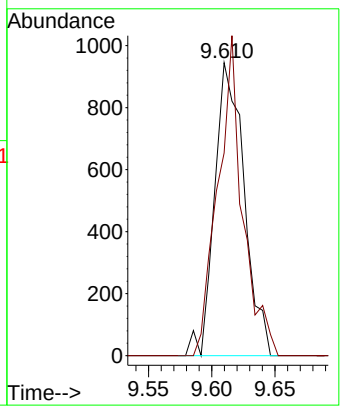


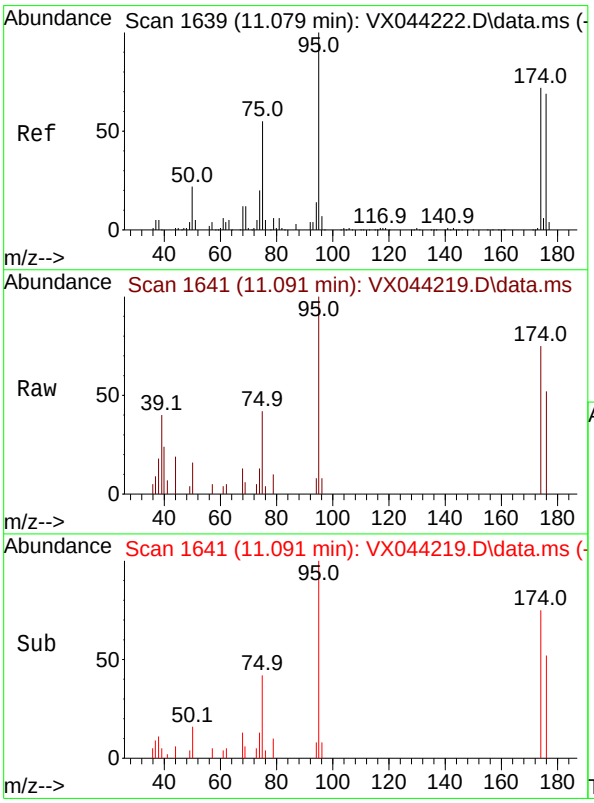
#61
1,2-Dibromoethane
Concen: 0.877 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:107 Resp: 1535

Ion	Ratio	Lower	Upper
107	100		
109	91.3	77.0	115.4

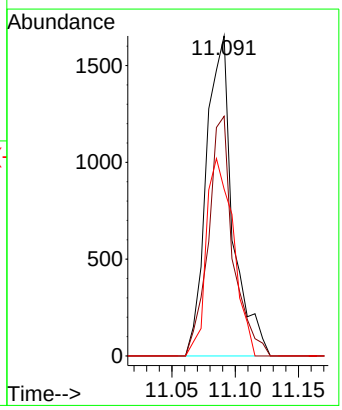


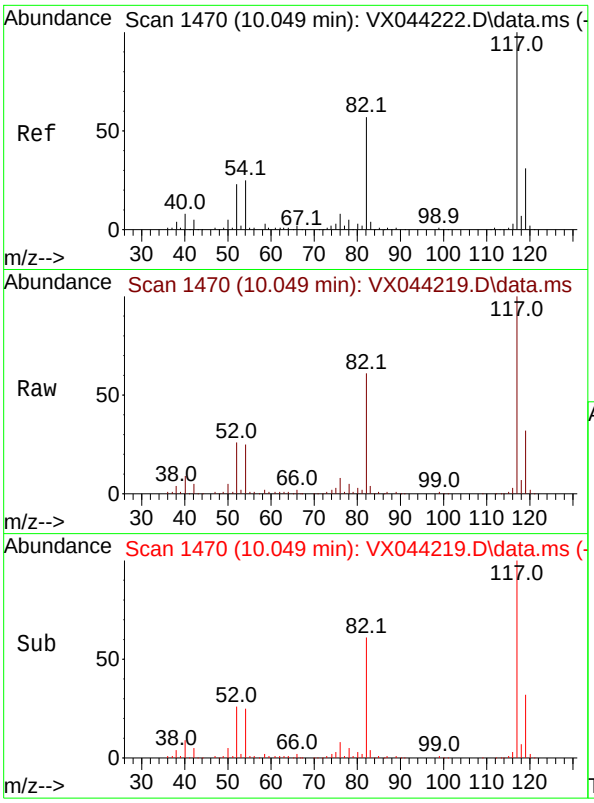


#62
4-Bromofluorobenzene
Concen: 1.158 ug/l
RT: 11.091 min Scan# 1641
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 95 Resp: 2398

Ion	Ratio	Lower	Upper
95	100		
174	70.4	0.0	145.8
176	63.4	0.0	137.8



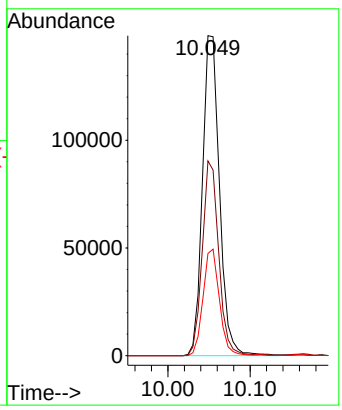


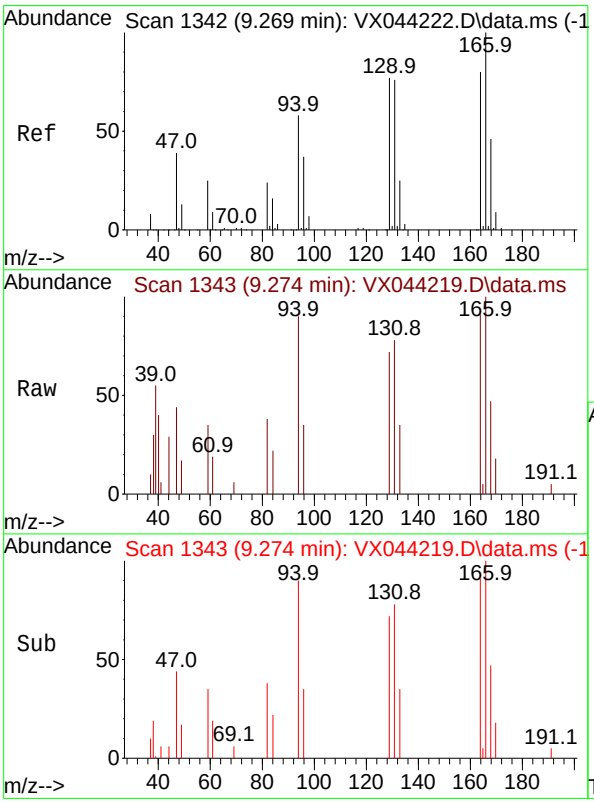
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 213862

Ion	Ratio	Lower	Upper
117	100		
82	60.9	45.8	68.8
119	32.0	25.0	37.4

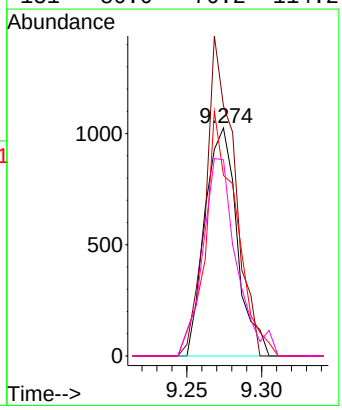


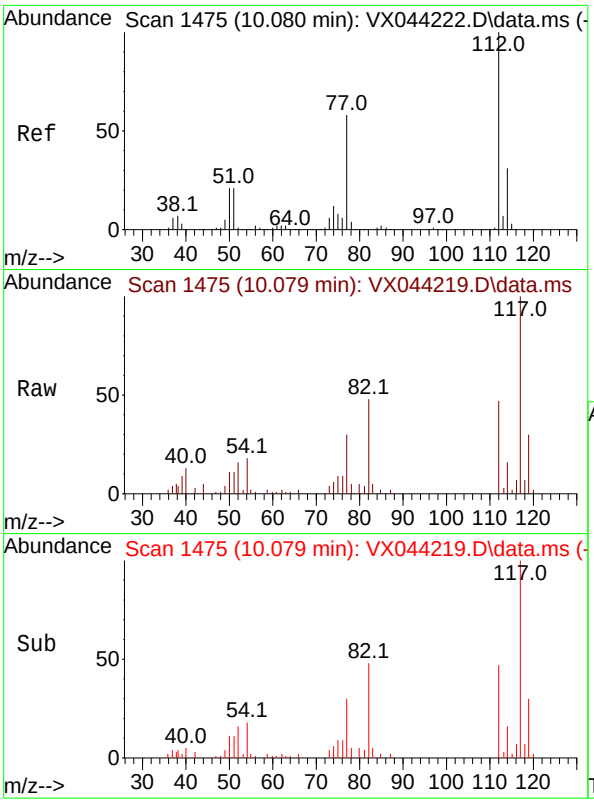


#64
Tetrachloroethene
Concen: 1.082 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:164 Resp: 1536

Ion	Ratio	Lower	Upper
164	100		
166	109.7	100.4	150.6
129	79.2	77.2	115.8
131	86.0	76.2	114.2



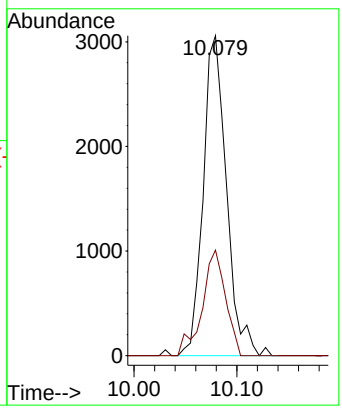


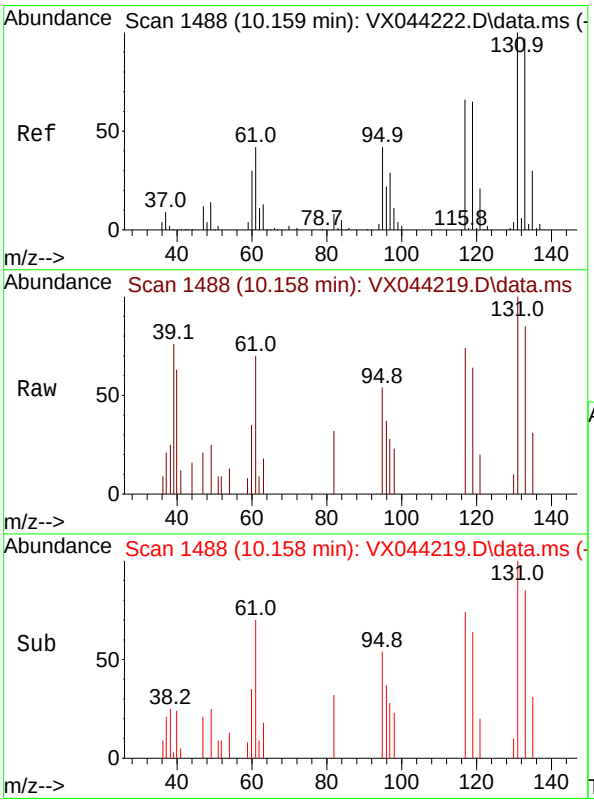
#65
Chlorobenzene
Concen: 1.055 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 4835

Ion	Ratio	Lower	Upper
112	100		
114	33.0	25.0	37.6

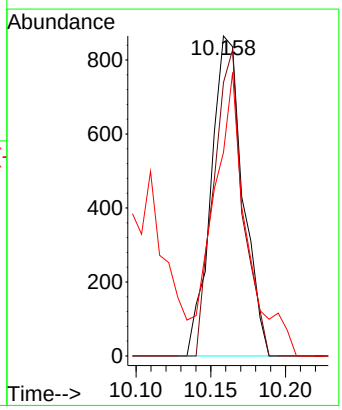


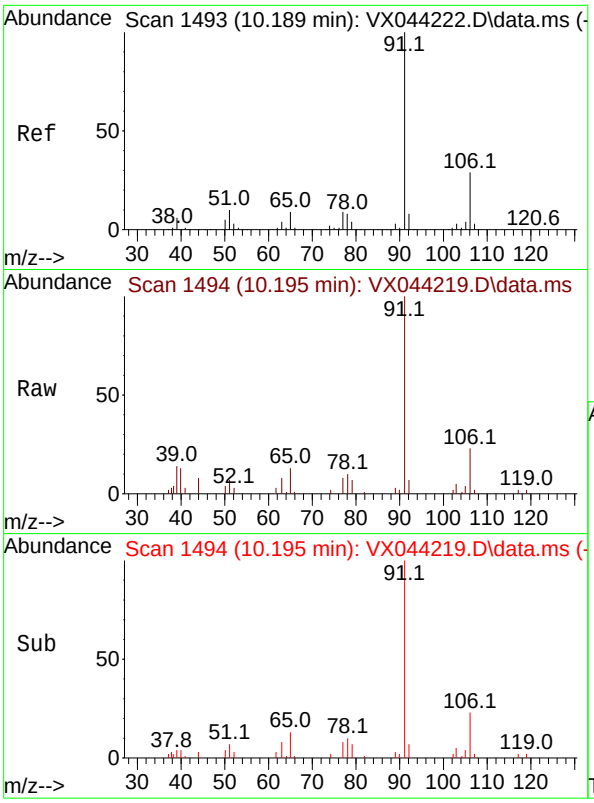


#66
1,1,1,2-Tetrachloroethane
Concen: 0.875 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:131 Resp: 1288

Ion	Ratio	Lower	Upper
131	100		
133	87.3	47.3	141.8
119	0.0	31.6	95.0#



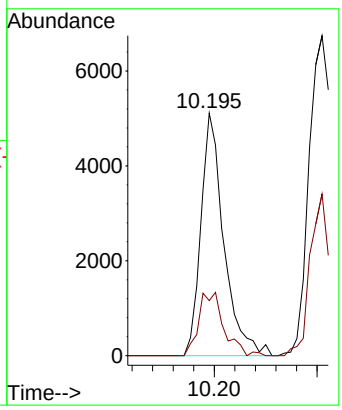


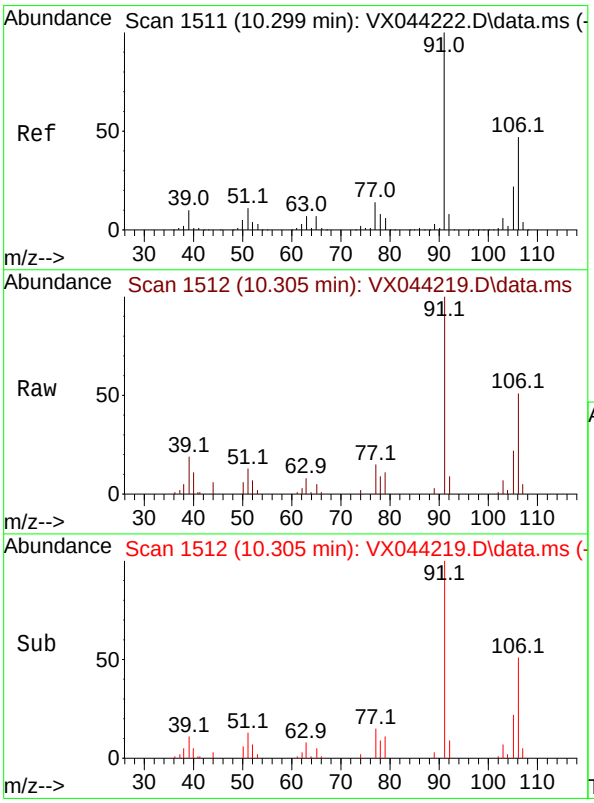
#67
Ethyl Benzene
Concen: 1.001 ug/l
RT: 10.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 7924

Ion	Ratio	Lower	Upper
91	100		
106	22.7	23.5	35.3#

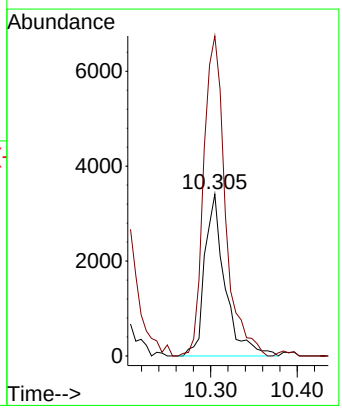


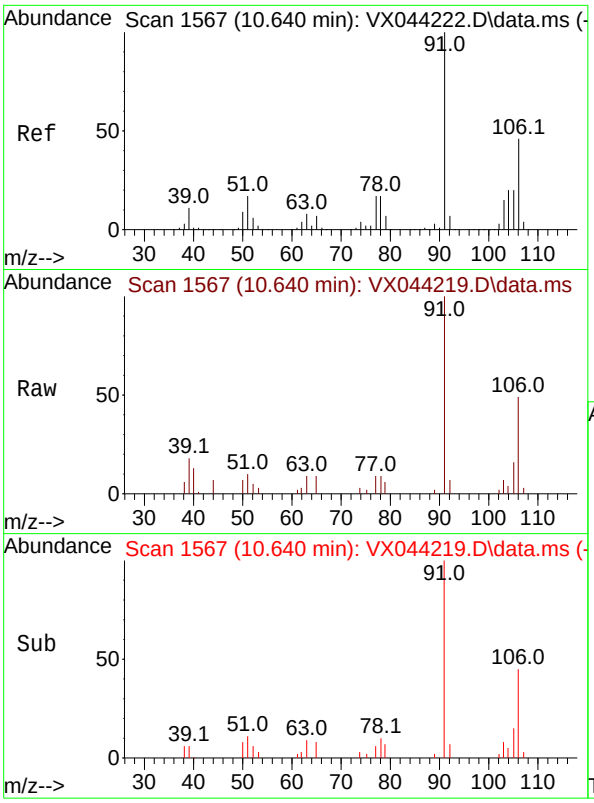


#68
m/p-Xylenes
Concen: 1.922 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:106 Resp: 5583

Ion	Ratio	Lower	Upper
106	100		
91	210.1	170.2	255.2



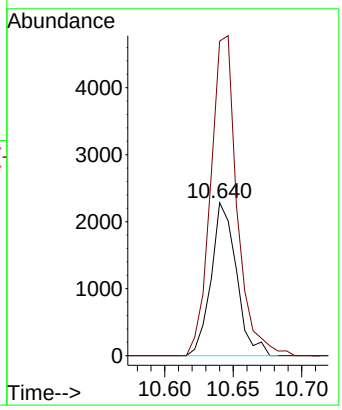


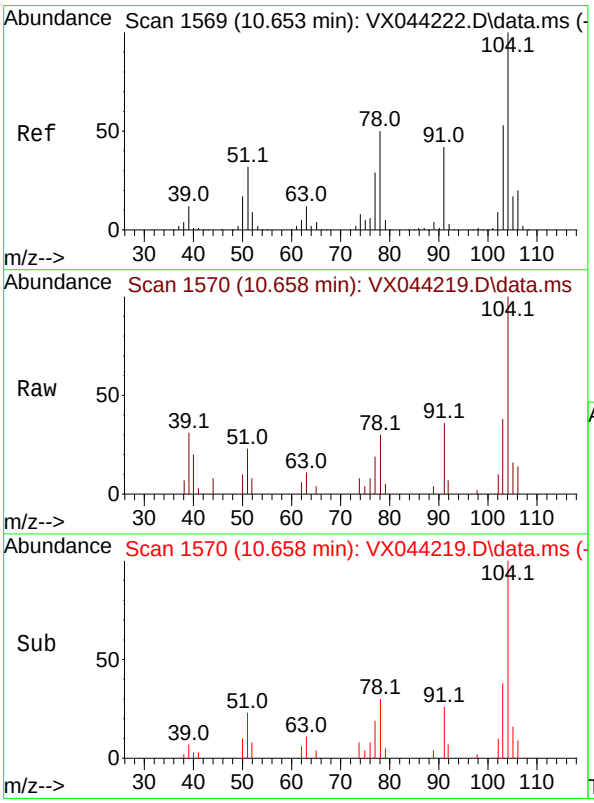
#69
o-Xylene
Concen: 0.998 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 2933

Ion	Ratio	Lower	Upper
106	100		
91	218.2	112.3	337.0

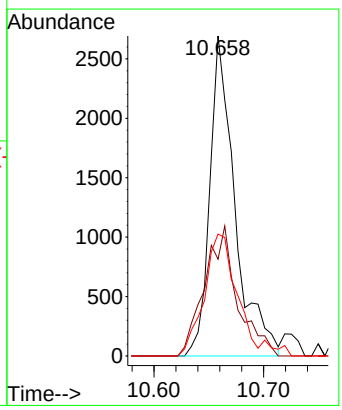


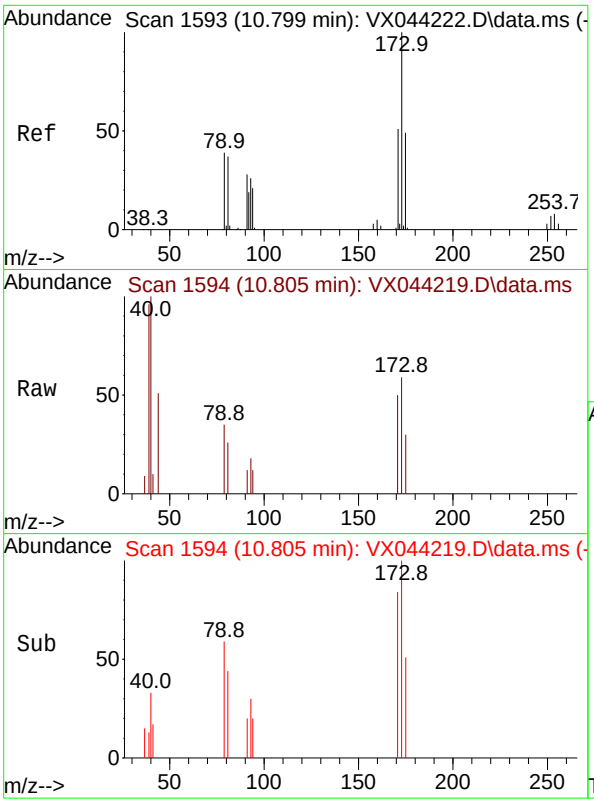


#70
Styrene
Concen: 0.914 ug/l
RT: 10.658 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:104 Resp: 4306

Ion	Ratio	Lower	Upper
104	100		
78	52.8	44.6	67.0
103	51.2	45.4	68.0



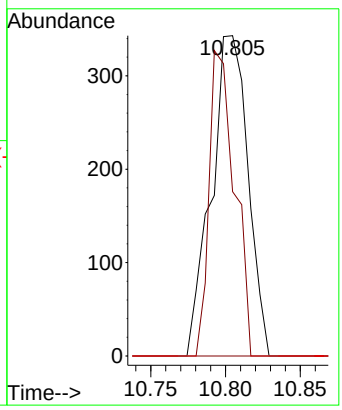


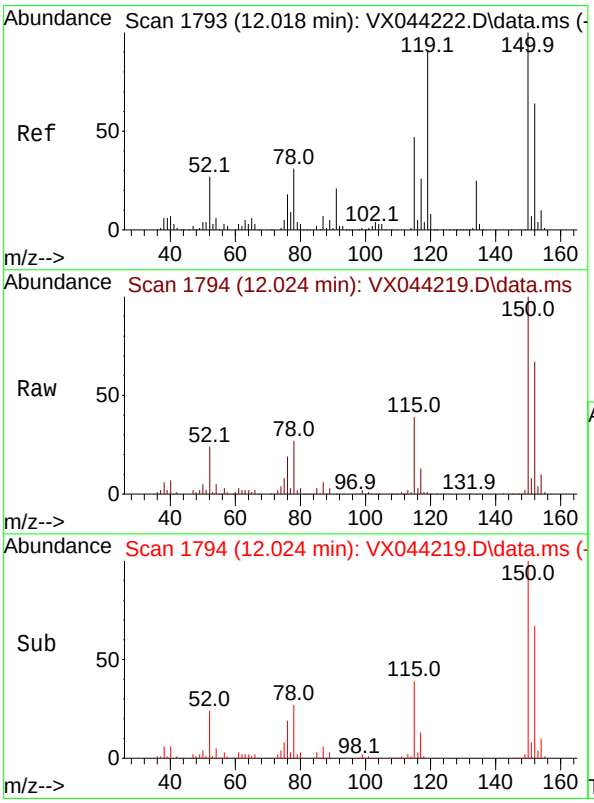
#71
Bromoform
Concen: 1.847 ug/l
RT: 10.805 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 584

Ion	Ratio	Lower	Upper
173	100		
175	66.1	23.8	71.4
254	0.0	0.0	0.0

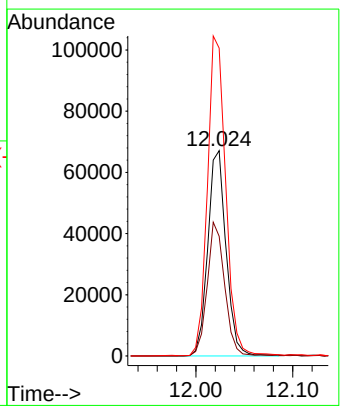


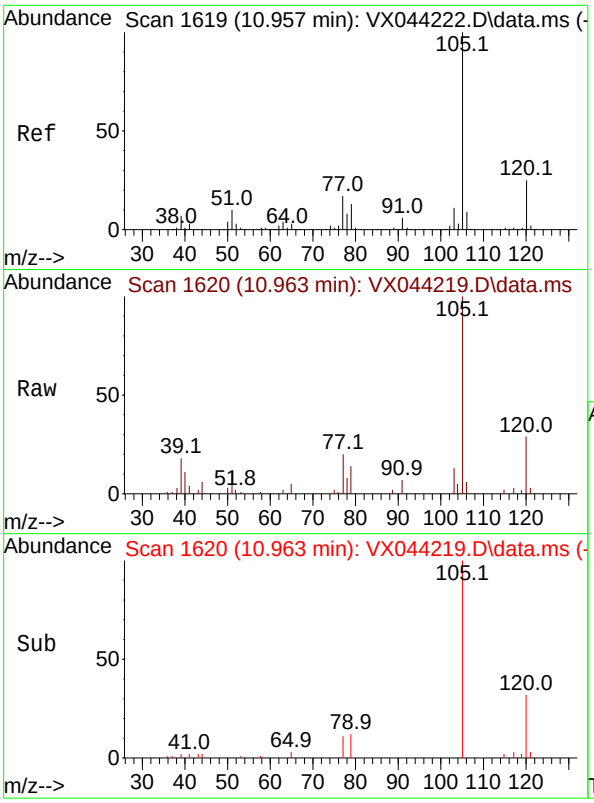


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:152 Resp: 88334

Ion	Ratio	Lower	Upper
152	100		
115	62.1	44.5	133.3
150	155.1	0.0	353.8



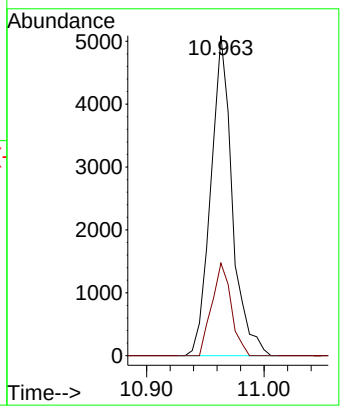


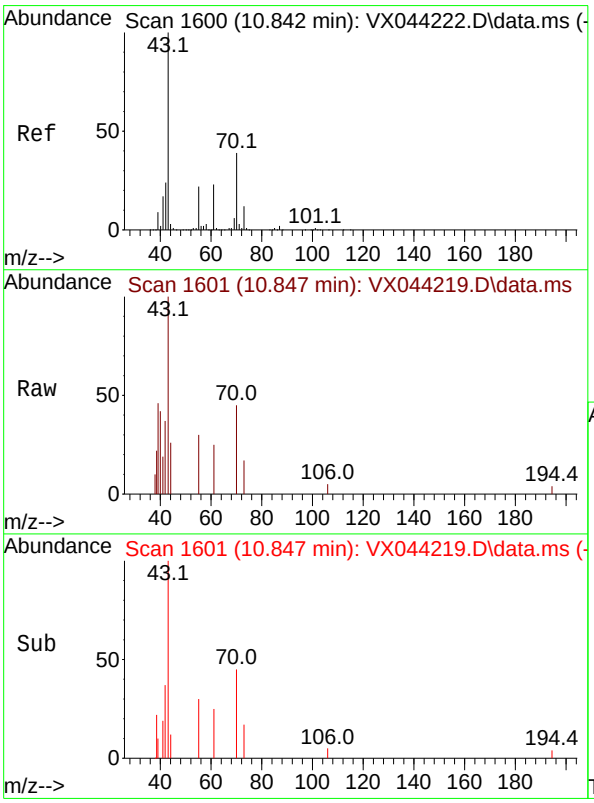
#73
Isopropylbenzene
Concen: 0.957 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 6474

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.3

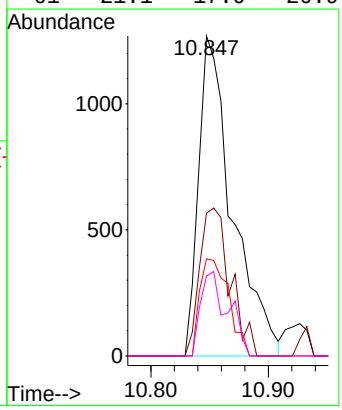


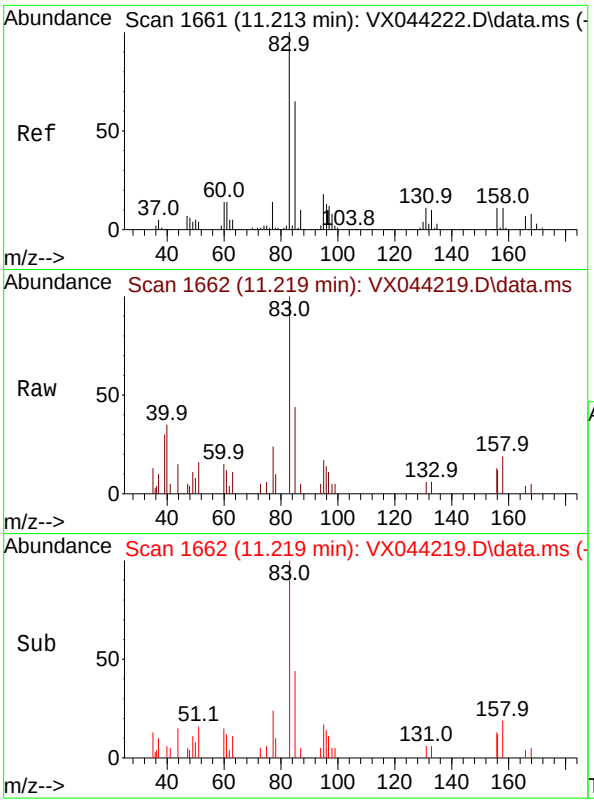


#74
N-amyl acetate
Concen: 0.811 ug/l
RT: 10.847 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 2536

Ion	Ratio	Lower	Upper
43	100		
70	41.9	31.9	47.9
55	26.0	17.9	26.9
61	21.1	17.9	26.9



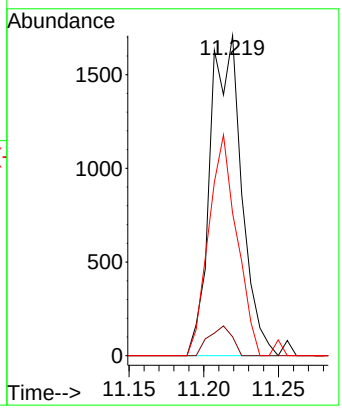


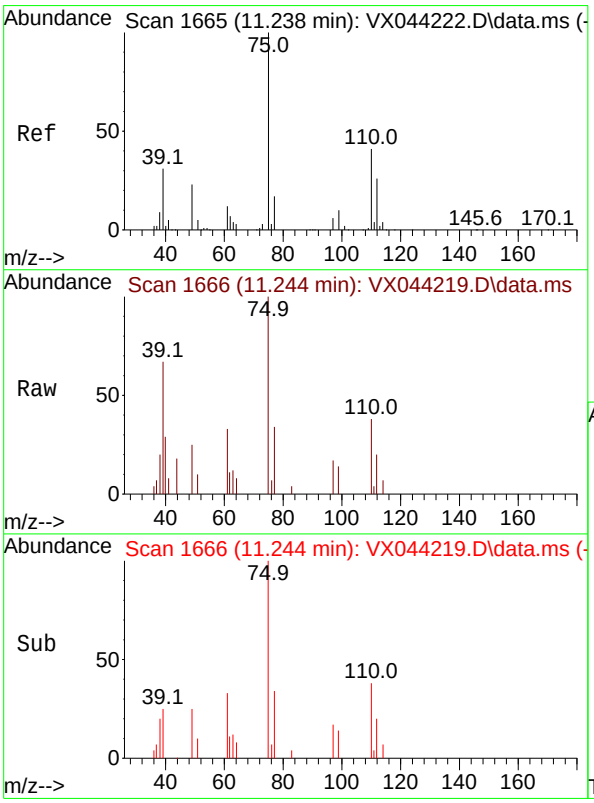
#75
1,1,2,2-Tetrachloroethane
Concen: 1.061 ug/l
RT: 11.219 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2491

Ion	Ratio	Lower	Upper
83	100		
131	6.9	5.1	15.4
85	61.8	32.5	97.4

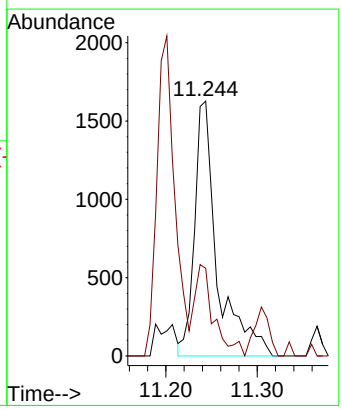


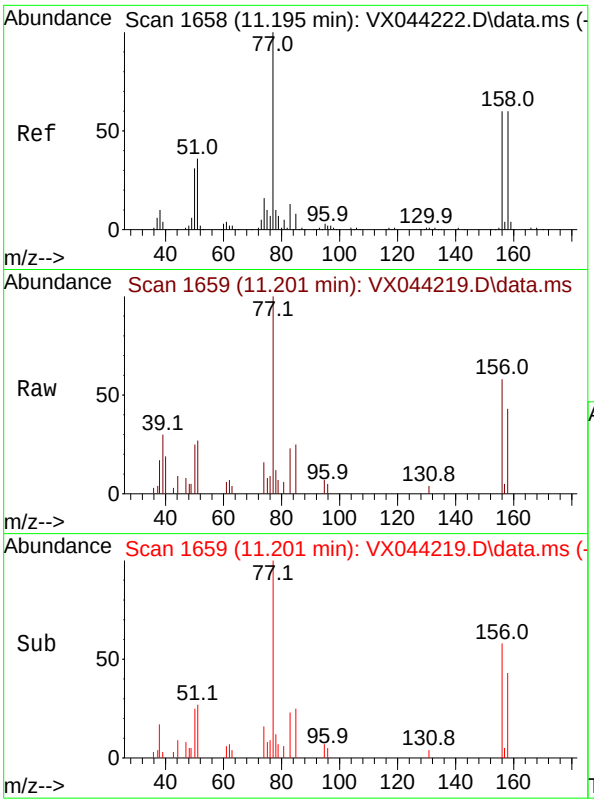


#76
1,2,3-Trichloropropane
Concen: 1.402 ug/l
RT: 11.244 min Scan# 1666
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 2810

Ion	Ratio	Lower	Upper
75	100		
77	29.9	20.9	62.7



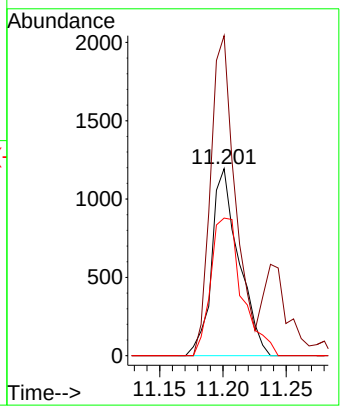


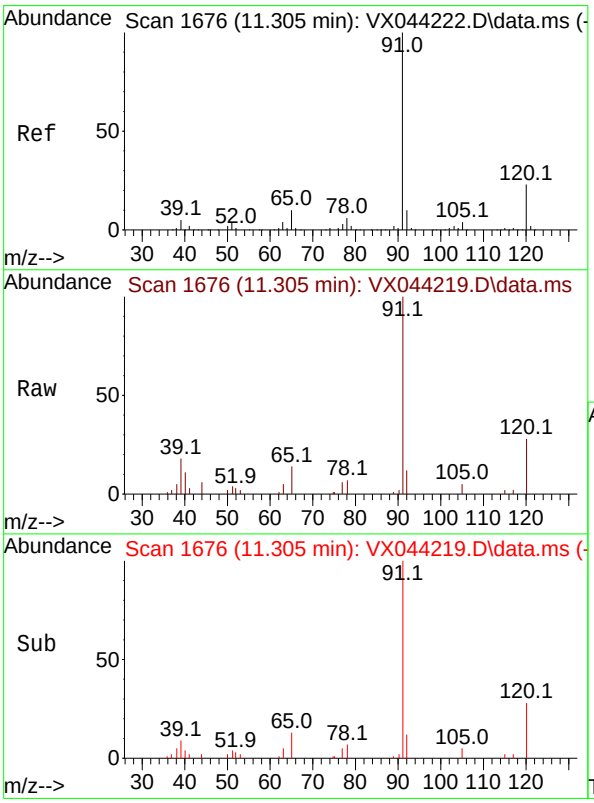
#77
Bromobenzene
Concen: 1.087 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:156 Resp: 1783

Ion	Ratio	Lower	Upper
156	100		
77	155.1	82.6	247.8
158	85.2	48.8	146.4

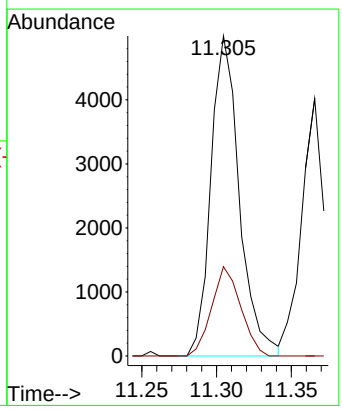


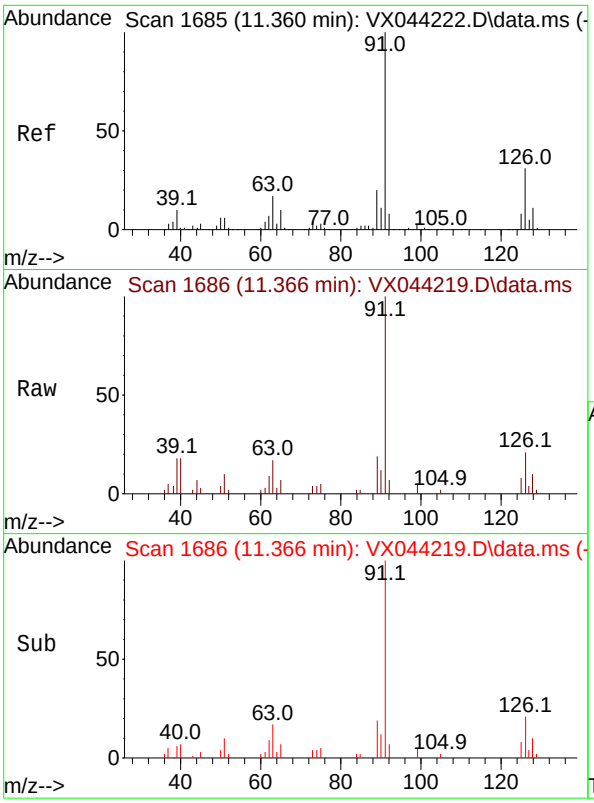


#78
n-propylbenzene
Concen: 0.884 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 91 Resp: 6606

Ion	Ratio	Lower	Upper
91	100		
120	28.4	11.0	33.0



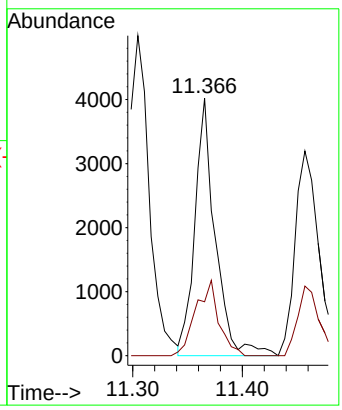


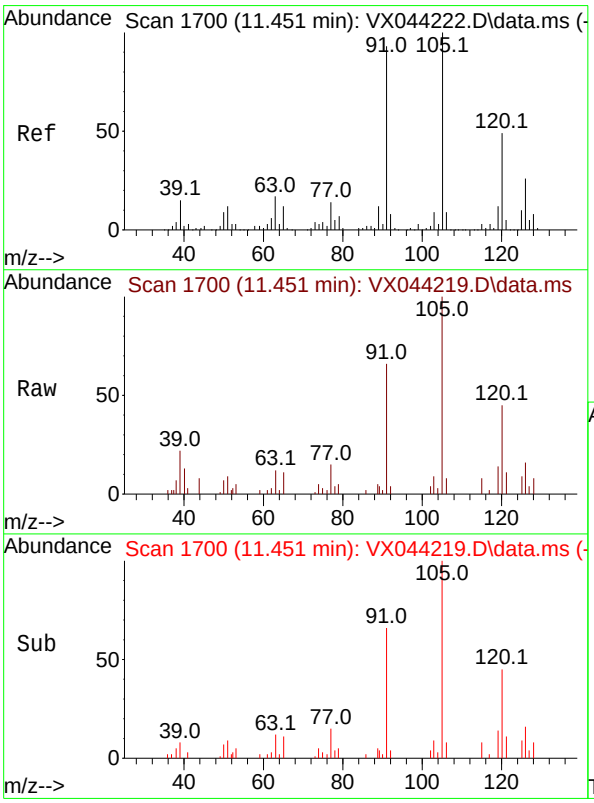
#79
2-Chlorotoluene
Concen: 1.075 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 5194

Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.4	49.1

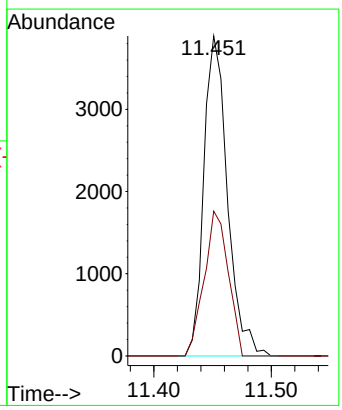


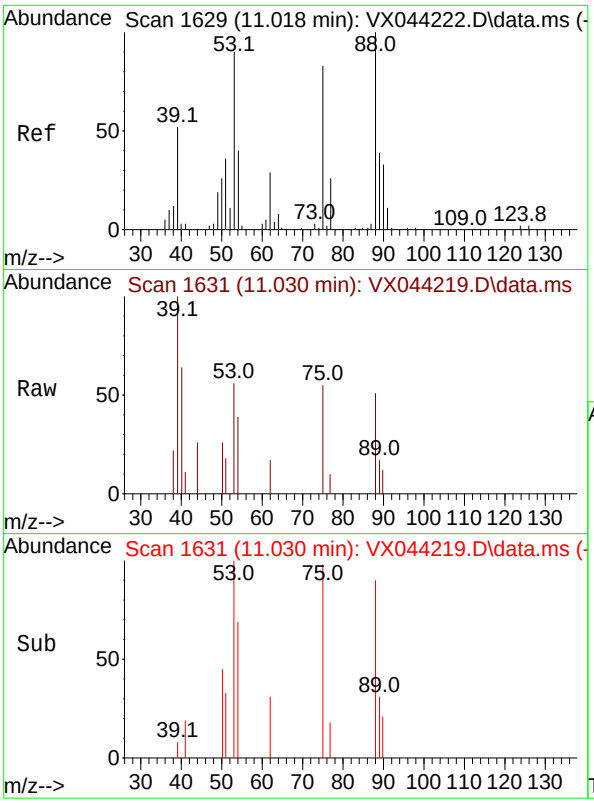


#80
1,3,5-Trimethylbenzene
Concen: 0.966 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:105 Resp: 5417

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.8	71.4



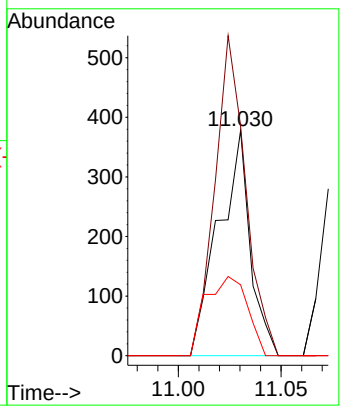


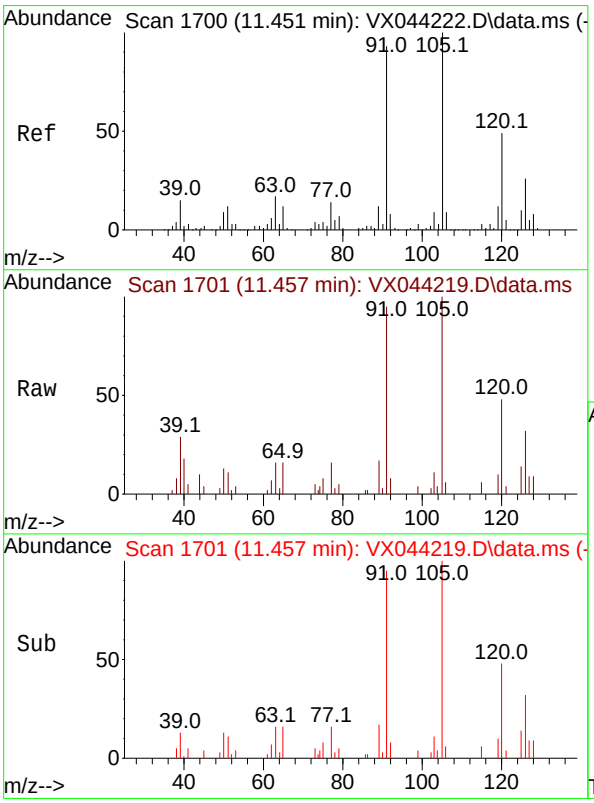
#81
trans-1,4-Dichloro-2-butene
Concen: 6.098 ug/l
RT: 11.030 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 402

Ion	Ratio	Lower	Upper
75	100		
53	139.1	93.6	140.4
89	46.8	37.3	55.9

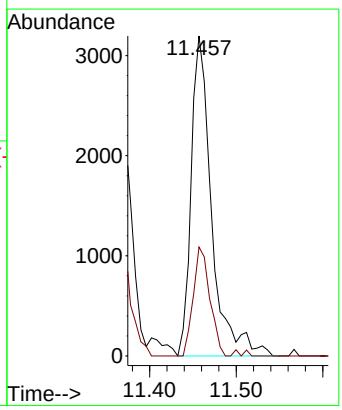


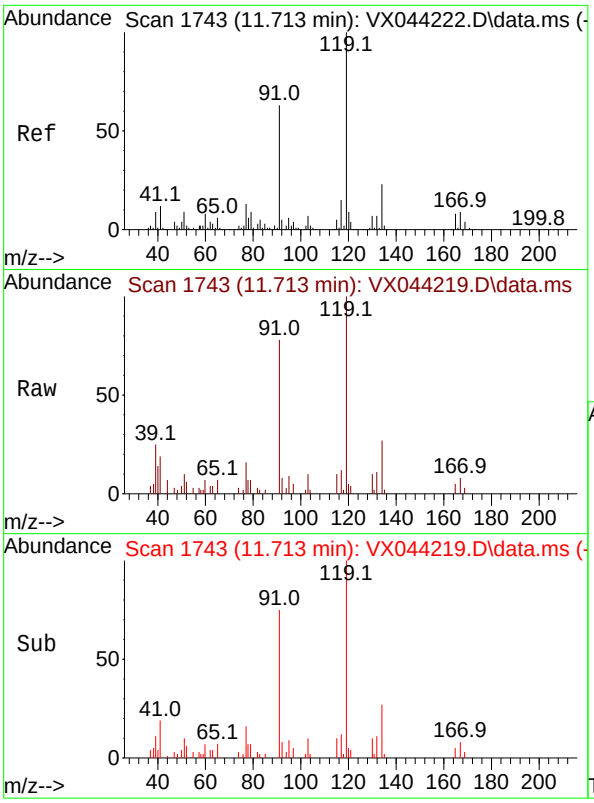


#82
4-Chlorotoluene
Concen: 0.978 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 91 Resp: 5236

Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.5	43.5



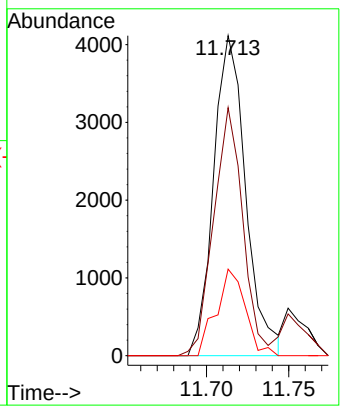


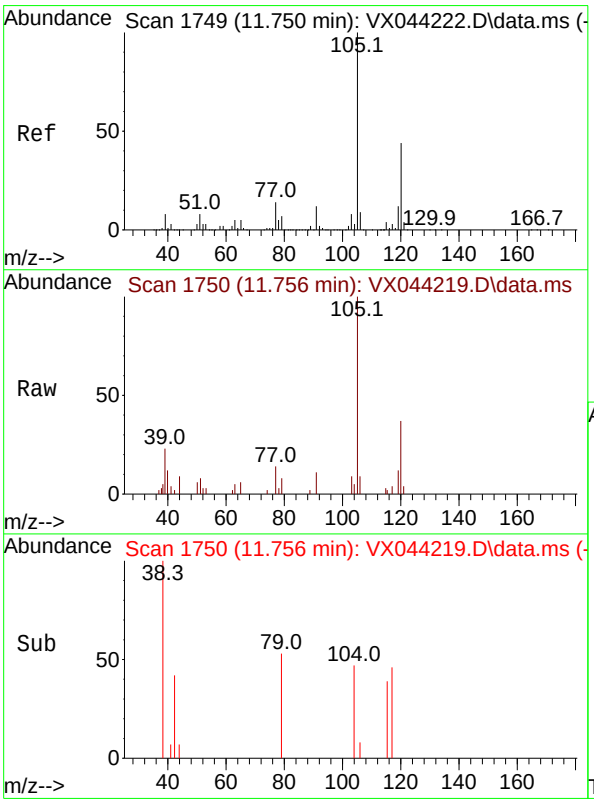
#83
tert-Butylbenzene
Concen: 1.011 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 5601

Ion	Ratio	Lower	Upper
119	100		
91	70.2	30.9	92.5
134	24.5	11.5	34.4

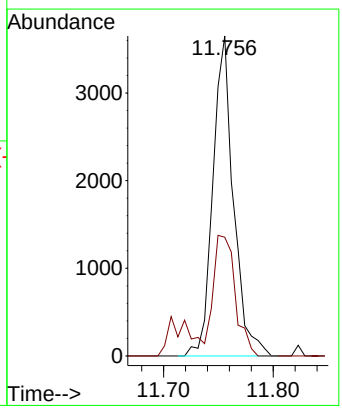


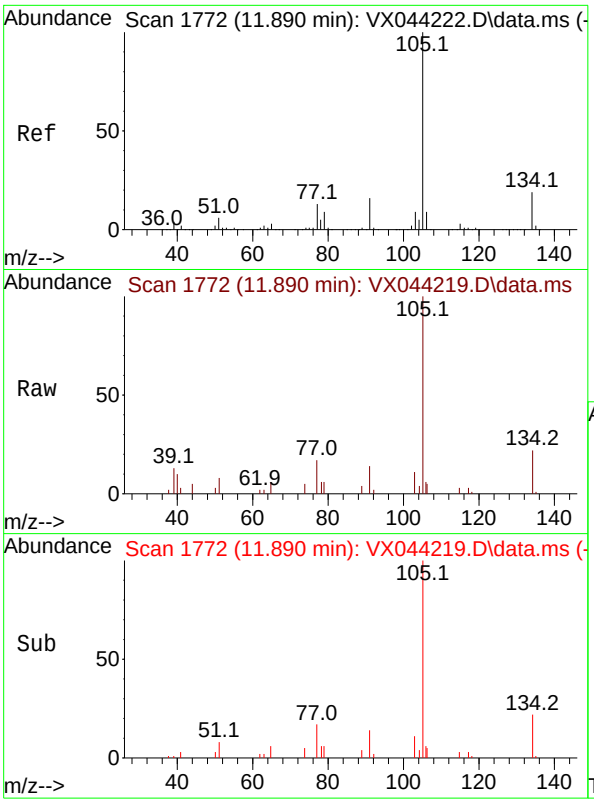


#84
1,2,4-Trimethylbenzene
Concen: 0.866 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:105 Resp: 4769

Ion	Ratio	Lower	Upper
105	100		
120	40.0	21.7	65.1



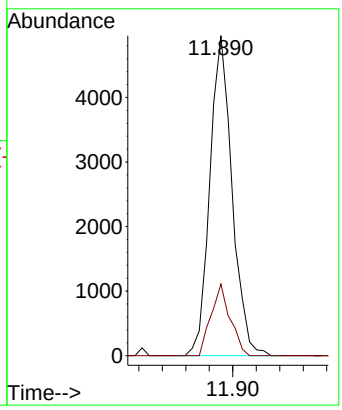


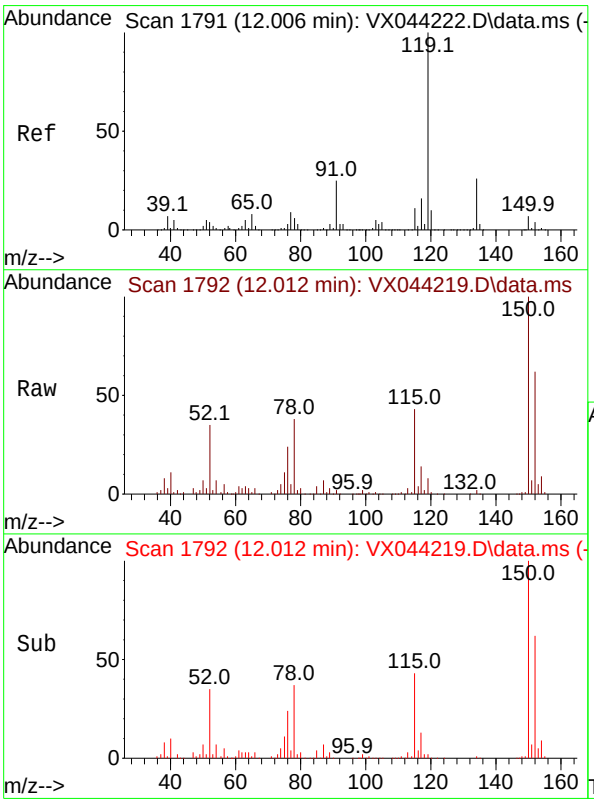
#85
sec-Butylbenzene
Concen: 0.966 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 6500

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.4

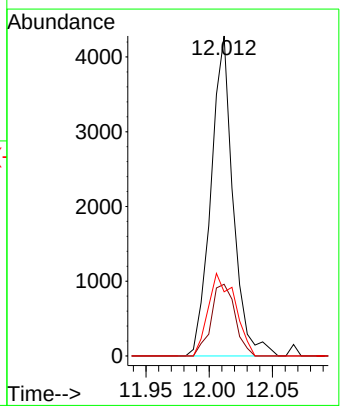


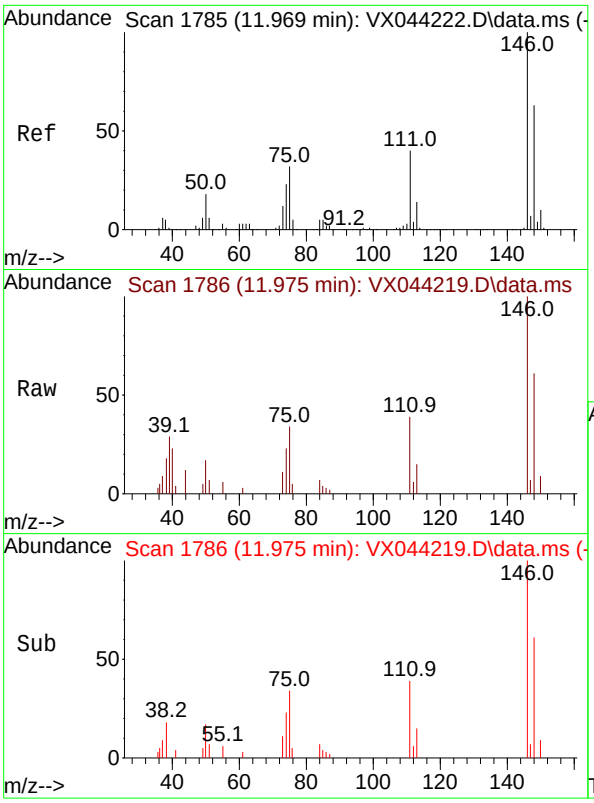


#86
p-Isopropyltoluene
Concen: 0.930 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:119 Resp: 5210

Ion	Ratio	Lower	Upper
119	100		
134	24.2	12.8	38.4
91	31.2	13.0	39.0



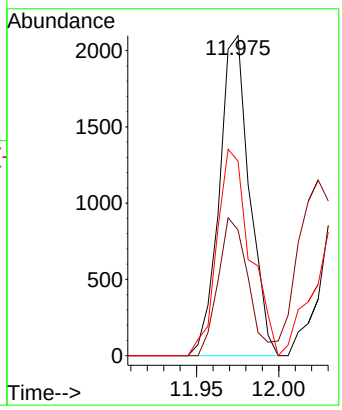


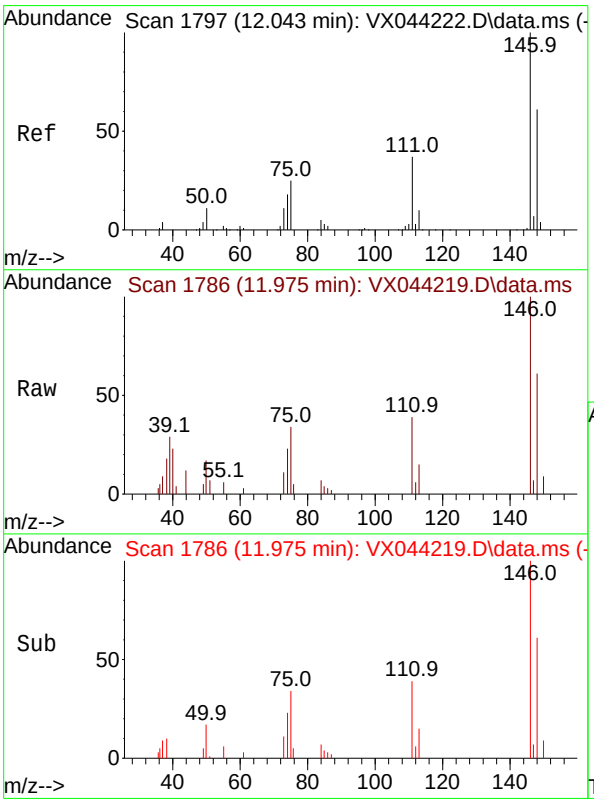
#87
1,3-Dichlorobenzene
Concen: 0.937 ug/l
RT: 11.975 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 2684

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.4	64.2
148	71.6	31.7	95.1

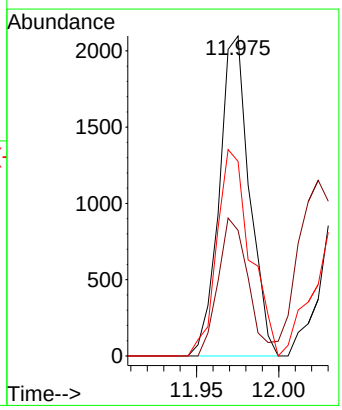


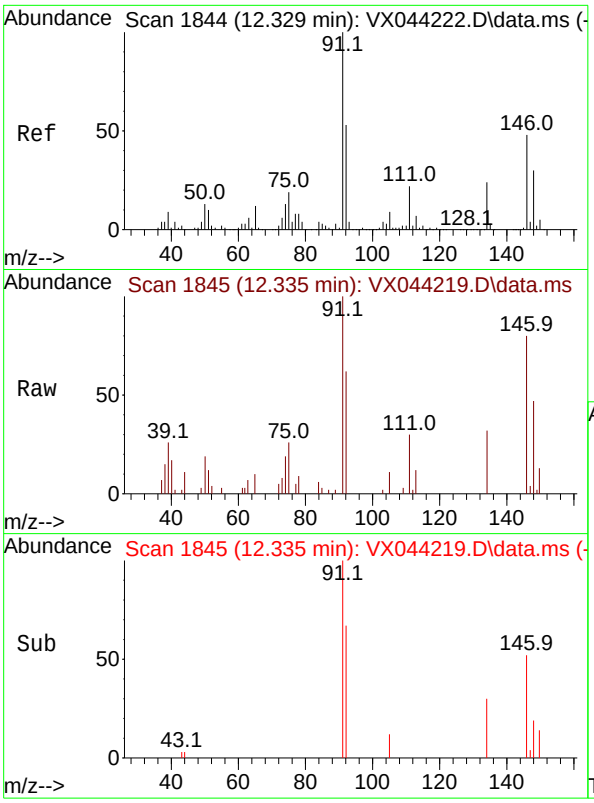


#88
1,4-Dichlorobenzene
Concen: 0.912 ug/l
RT: 11.975 min Scan# 1786
Delta R.T. -0.067 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:146 Resp: 2684

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.0	63.0
148	71.6	32.3	96.8



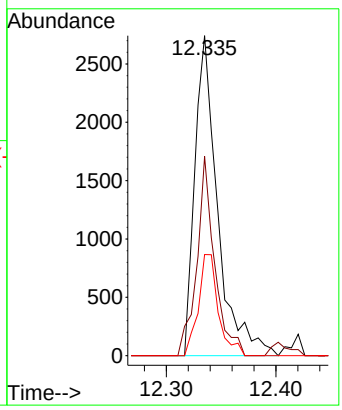


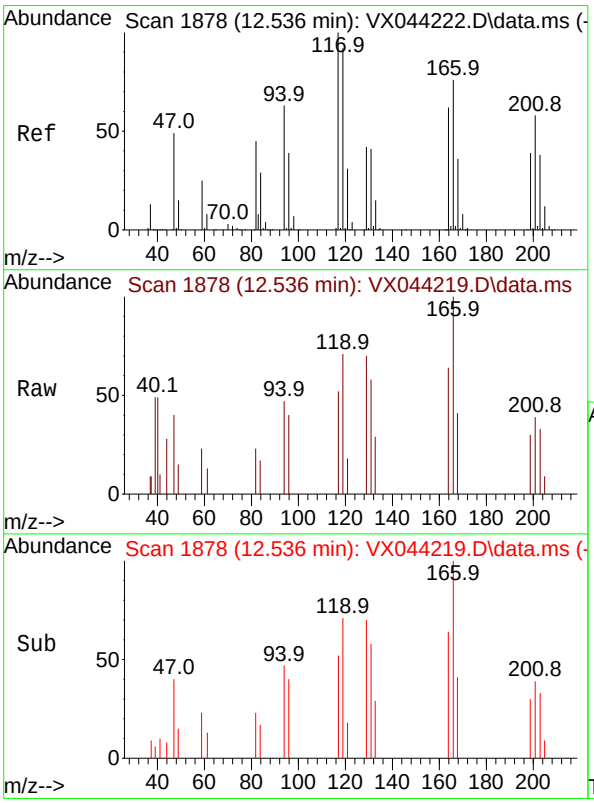
#89
n-Butylbenzene
Concen: 0.844 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 3973

Ion	Ratio	Lower	Upper
91	100		
92	48.5	26.6	79.7
134	27.8	12.6	37.8

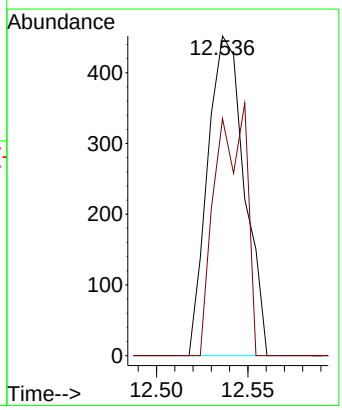


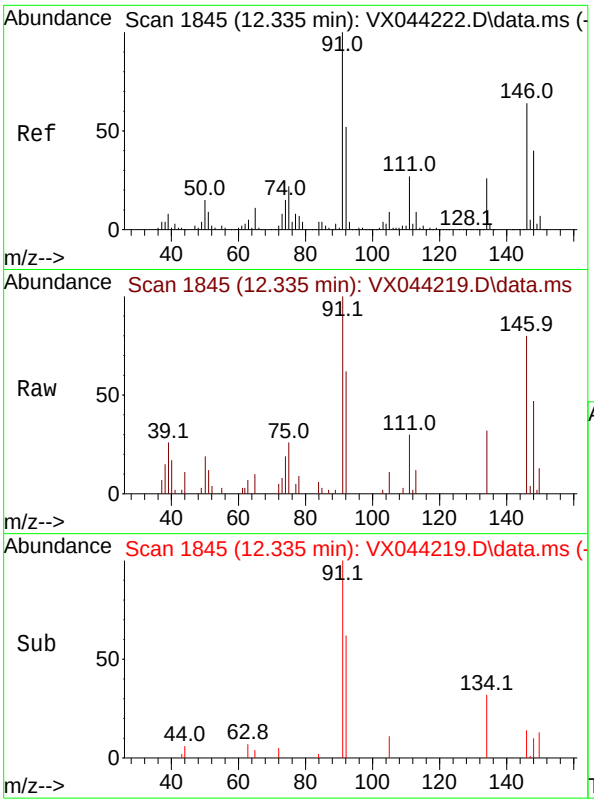


#90
Hexachloroethane
Concen: 0.773 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:117 Resp: 632

Ion	Ratio	Lower	Upper
117	100		
201	66.9	31.4	94.2



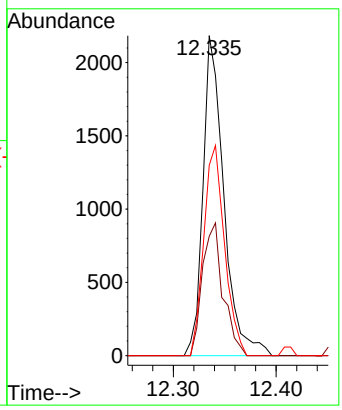


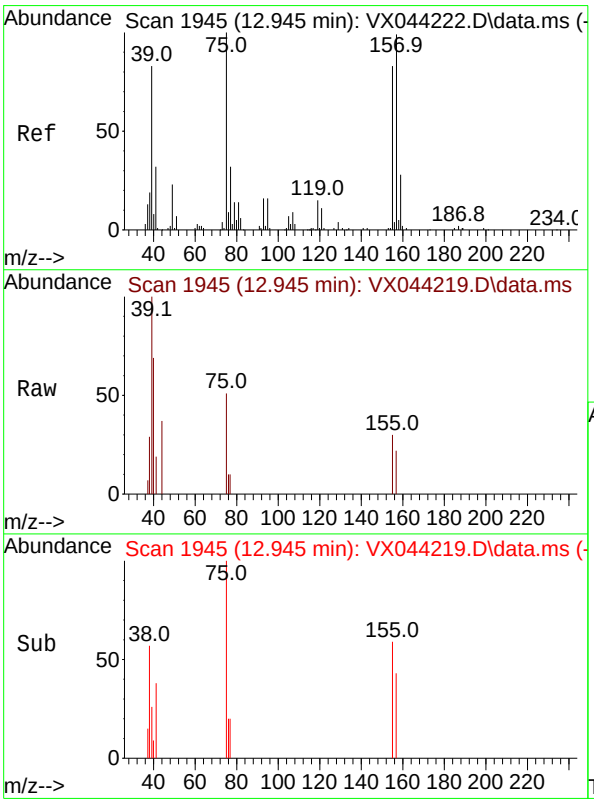
#91
1,2-Dichlorobenzene
Concen: 1.036 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 3082

Ion	Ratio	Lower	Upper
146	100		
111	41.0	21.4	64.3
148	65.4	31.6	95.0

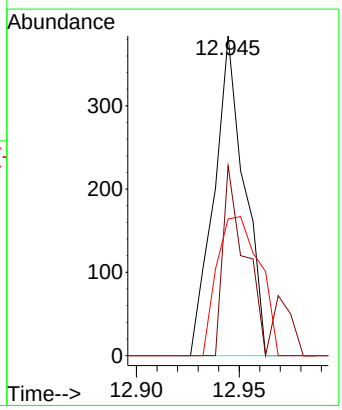


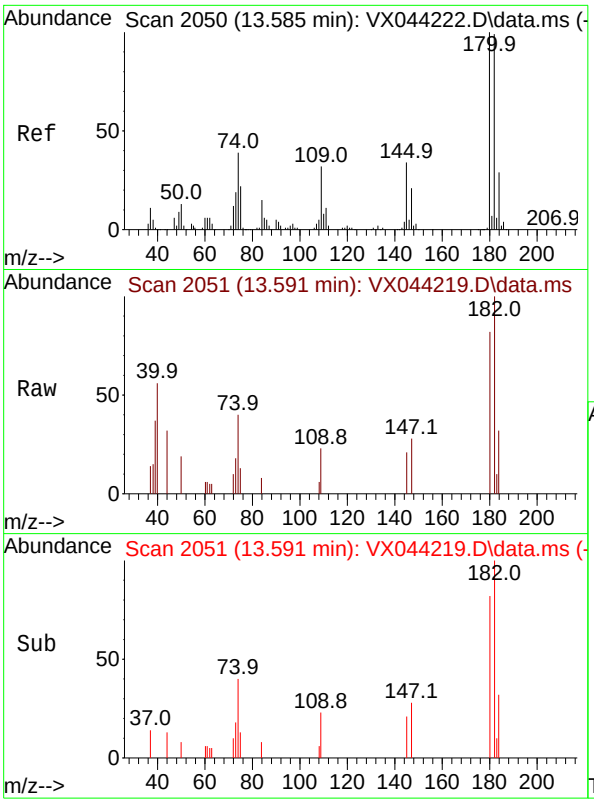


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.860 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 392

Ion	Ratio	Lower	Upper
75	100		
155	54.6	38.1	114.3
157	61.5	47.2	141.6



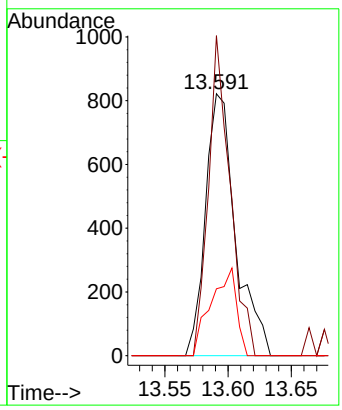


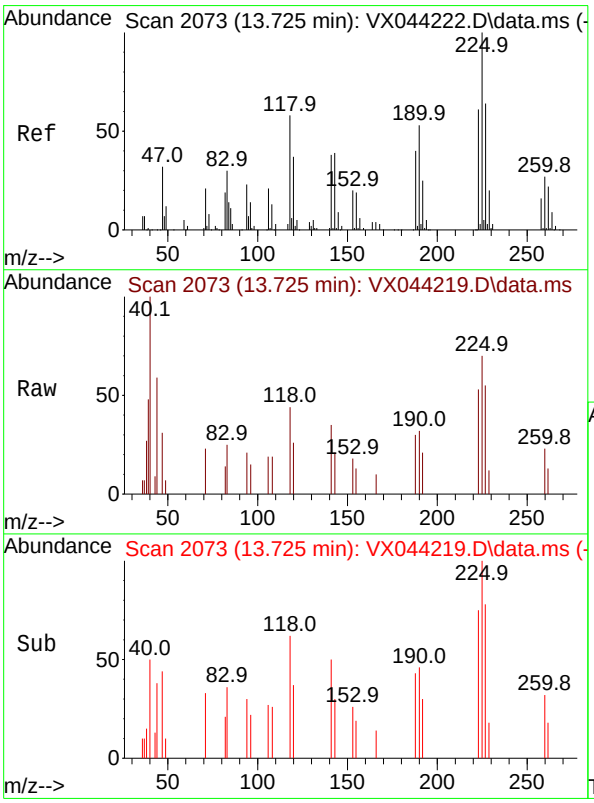
#93
1,2,4-Trichlorobenzene
Concen: 0.835 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 1361

Ion	Ratio	Lower	Upper
180	100		
182	88.0	48.0	144.2
145	28.4	16.6	49.7

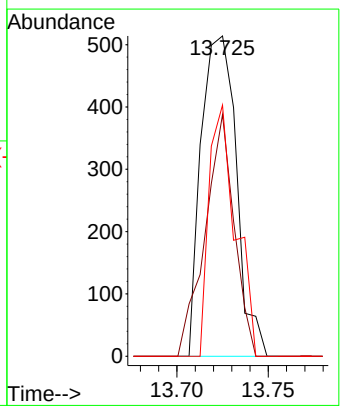


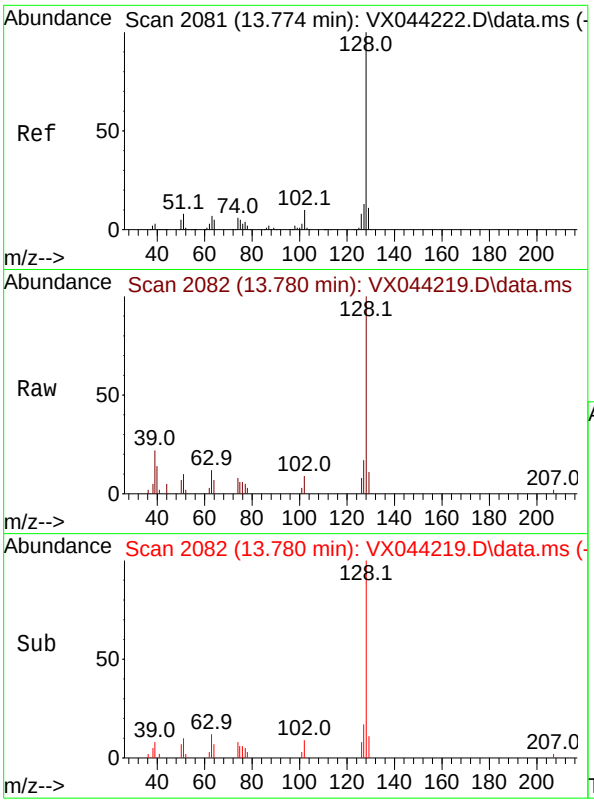


#94
Hexachlorobutadiene
Concen: 1.051 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:225 Resp: 689

Ion	Ratio	Lower	Upper
225	100		
223	62.4	30.8	92.4
227	59.4	32.1	96.3



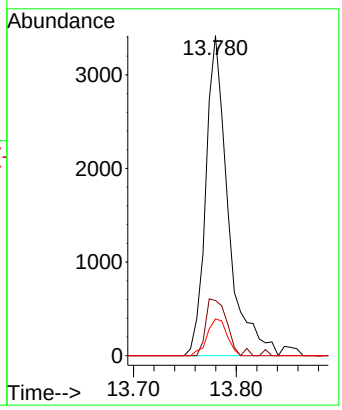


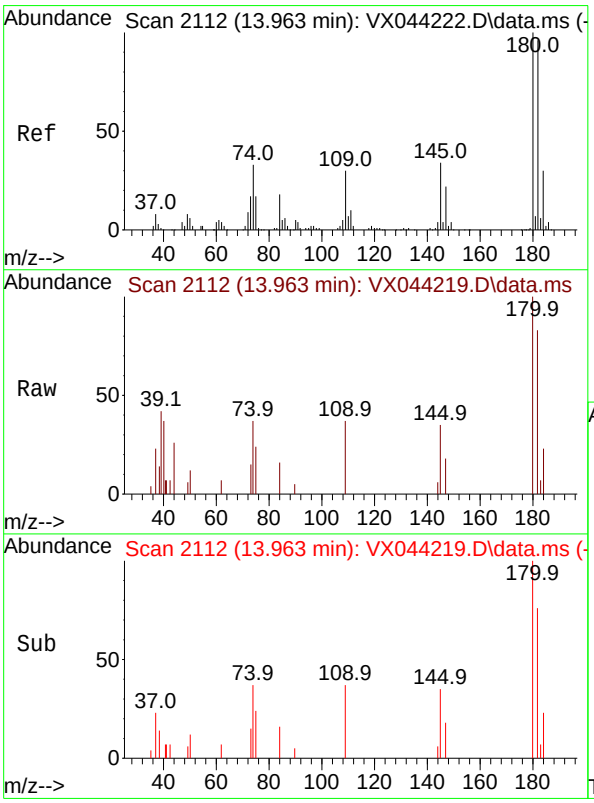
#95
Naphthalene
Concen: 0.812 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 5167

Ion	Ratio	Lower	Upper
128	100		
127	16.8	10.5	15.7#
129	10.2	9.0	13.4

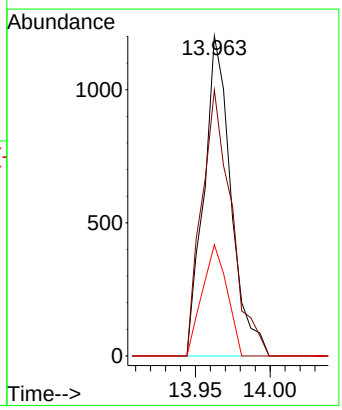




#96
1,2,3-Trichlorobenzene
Concen: 0.873 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:180 Resp: 1509

Ion	Ratio	Lower	Upper
180	100		
182	91.3	48.0	144.0
145	31.9	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	139609	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	258881	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	217783	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	95175	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	13043	5.328	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 10.660%#			
35) Dibromofluoromethane	5.385	113	9145	5.100	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 10.200%#			
50) Toluene-d8	8.647	98	29732	4.915	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 9.840%#			
62) 4-Bromofluorobenzene	11.079	95	10101	4.779	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 9.560%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	10452	4.842	ug/l	91
3) Chloromethane	1.294	50	10429	5.052	ug/l	95
4) Vinyl Chloride	1.374	62	11031	5.129	ug/l	98
5) Bromomethane	1.593	94	8237	5.399	ug/l	92
6) Chloroethane	1.660	64	7253	5.416	ug/l	96
7) Trichlorofluoromethane	1.868	101	21207	5.037	ug/l	91
8) Diethyl Ether	2.136	74	7199	5.009	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	8766	5.145	ug/l	97
10) Methyl Iodide	2.447	142	11066	4.928	ug/l	97
11) Tert butyl alcohol	2.995	59	6094	17.693	ug/l	99
12) 1,1-Dichloroethene	2.306	96	7822	4.999	ug/l	95
13) Acrolein	2.239	56	12521	25.073	ug/l	100
14) Allyl chloride	2.654	41	12490	4.792	ug/l	94
15) Acrylonitrile	3.069	53	23276	24.357	ug/l	99
16) Acetone	2.392	43	24645	24.696	ug/l	93
17) Carbon Disulfide	2.495	76	12169	4.091	ug/l	99
18) Methyl Acetate	2.709	43	12412	4.824	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	30546	5.002	ug/l	94
20) Methylene Chloride	2.782	84	9466	5.050	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	7768	4.671	ug/l	97
22) Diisopropyl ether	3.764	45	29518	5.029	ug/l #	73
23) Vinyl Acetate	3.721	43	109670	22.983	ug/l	96
24) 1,1-Dichloroethane	3.605	63	16370	5.004	ug/l	96
25) 2-Butanone	4.574	43	34245	24.138	ug/l	97
26) 2,2-Dichloropropane	4.471	77	12514	4.708	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	10292	4.873	ug/l	97
28) Bromochloromethane	4.897	49	8049	5.017	ug/l #	93
29) Tetrahydrofuran	5.019	42	24307	26.693	ug/l	94
30) Chloroform	5.093	83	18319	4.984	ug/l	93
31) Cyclohexane	5.464	56	12995	4.919	ug/l	89
32) 1,1,1-Trichloroethane	5.373	97	14231	4.664	ug/l	96
36) 1,1-Dichloropropene	5.690	75	11455	4.942	ug/l	94
37) Ethyl Acetate	4.727	43	13265	4.630	ug/l	97
38) Carbon Tetrachloride	5.666	117	11476	4.599	ug/l	96
39) Methylcyclohexane	7.373	83	13019	4.699	ug/l #	85
40) Benzene	6.037	78	35018	4.976	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.946	41	7585	4.986	ug/l		93
42) 1,2-Dichloroethane	6.092	62	14419	4.974	ug/l		99
43) Isopropyl Acetate	6.354	43	22098	4.935	ug/l		98
44) Trichloroethene	7.123	130	8405	4.790	ug/l		100
45) 1,2-Dichloropropane	7.434	63	8932	4.968	ug/l		94
46) Dibromomethane	7.586	93	6915	4.958	ug/l		99
47) Bromodichloromethane	7.824	83	10646	4.420	ug/l	#	98
48) Methyl methacrylate	7.702	41	9586	4.410	ug/l		97
49) 1,4-Dioxane	7.671	88	2783	74.917	ug/l	#	84
51) 4-Methyl-2-Pentanone	8.574	43	71285	24.759	ug/l		98
52) Toluene	8.720	92	21486	4.862	ug/l		99
53) t-1,3-Dichloropropene	8.982	75	9232	4.665	ug/l		100
54) cis-1,3-Dichloropropene	8.372	75	11404	4.348	ug/l		99
55) 1,1,2-Trichloroethane	9.153	97	8590	4.893	ug/l		97
56) Ethyl methacrylate	9.122	69	11854	4.277	ug/l	#	89
57) 1,3-Dichloropropane	9.311	76	15352	5.024	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	34738	24.852	ug/l		99
59) 2-Hexanone	9.433	43	50003	23.994	ug/l		96
60) Dibromochloromethane	9.519	129	6411	4.738	ug/l		98
61) 1,2-Dibromoethane	9.610	107	8330	4.662	ug/l		97
64) Tetrachloroethene	9.275	164	7710	5.334	ug/l	#	87
65) Chlorobenzene	10.079	112	23268	4.986	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	6647	4.432	ug/l		94
67) Ethyl Benzene	10.195	91	39326	4.877	ug/l		97
68) m/p-Xylenes	10.299	106	28758	9.720	ug/l		98
69) o-Xylene	10.640	106	14864	4.965	ug/l		97
70) Styrene	10.659	104	22191	4.624	ug/l		98
71) Bromoform	10.799	173	3775	5.118	ug/l	#	98
73) Isopropylbenzene	10.963	105	37843	5.194	ug/l		98
74) N-amyl acetate	10.842	43	15418	4.579	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	12848	5.077	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	12901	5.974	ug/l		91
77) Bromobenzene	11.201	156	8892	5.033	ug/l		99
78) n-propylbenzene	11.305	91	40574	5.038	ug/l		96
79) 2-Chlorotoluene	11.366	91	27096	5.203	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	30665	5.075	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.024	75	2249	8.273	ug/l	#	62
82) 4-Chlorotoluene	11.457	91	29039	5.035	ug/l		99
83) tert-Butylbenzene	11.713	119	29283	4.904	ug/l		95
84) 1,2,4-Trimethylbenzene	11.750	105	30970	5.219	ug/l		99
85) sec-Butylbenzene	11.890	105	35670	4.921	ug/l		98
86) p-Isopropyltoluene	12.006	119	29132	4.828	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	15553	5.039	ug/l		96
88) 1,4-Dichlorobenzene	12.043	146	15609	4.920	ug/l		95
89) n-Butylbenzene	12.335	91	22719	4.478	ug/l		98
90) Hexachloroethane	12.536	117	3765	4.275	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	15858	4.949	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2154	4.385	ug/l		81
93) 1,2,4-Trichlorobenzene	13.591	180	7867	4.478	ug/l		96
94) Hexachlorobutadiene	13.725	225	3321	4.700	ug/l		93
95) Naphthalene	13.780	128	31842	4.643	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	8422	4.520	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

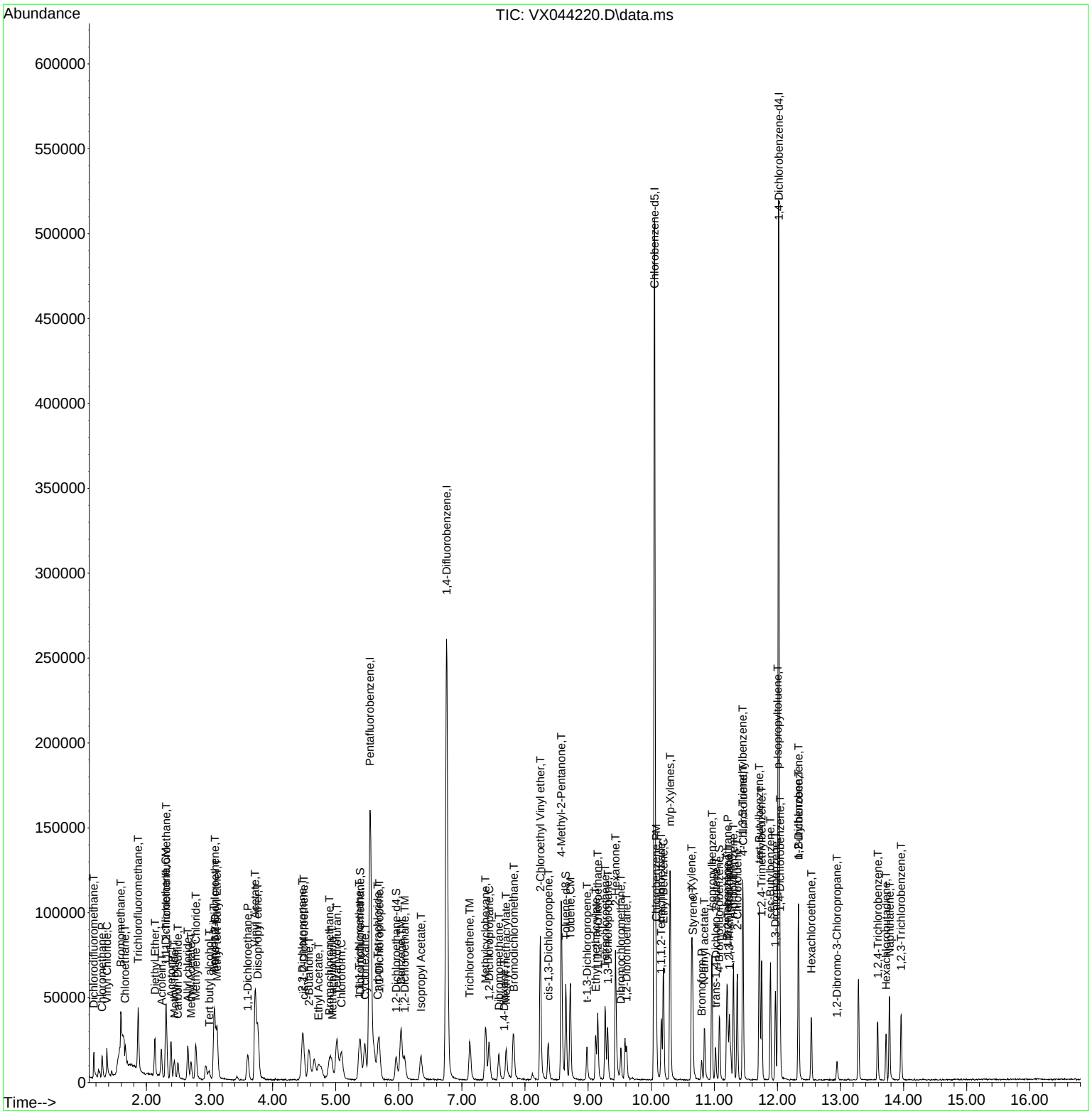
(#) = qualifier out of range (m) = manual integration (+) = signals summed

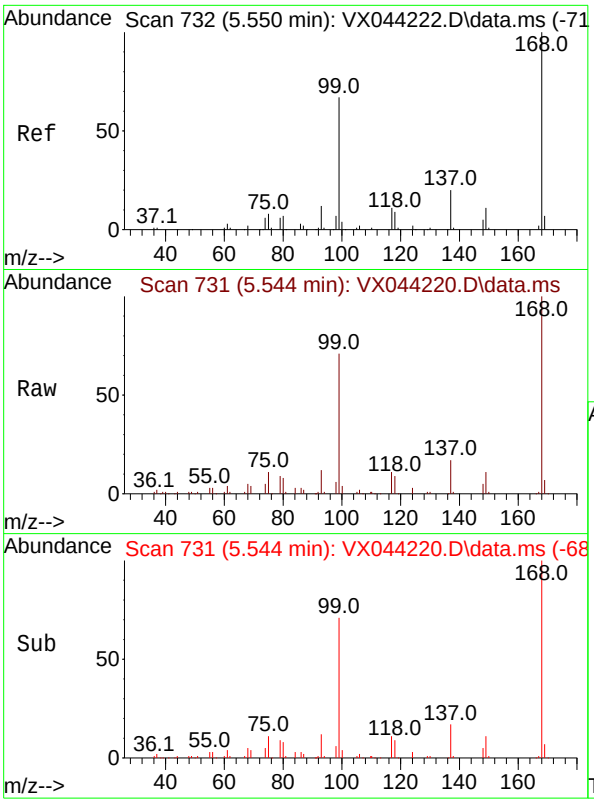
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration



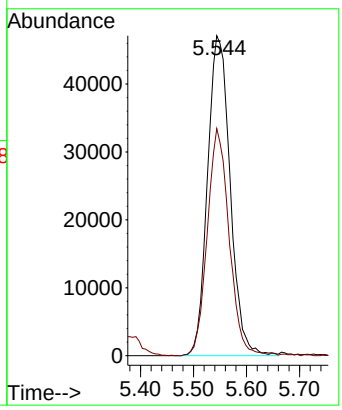


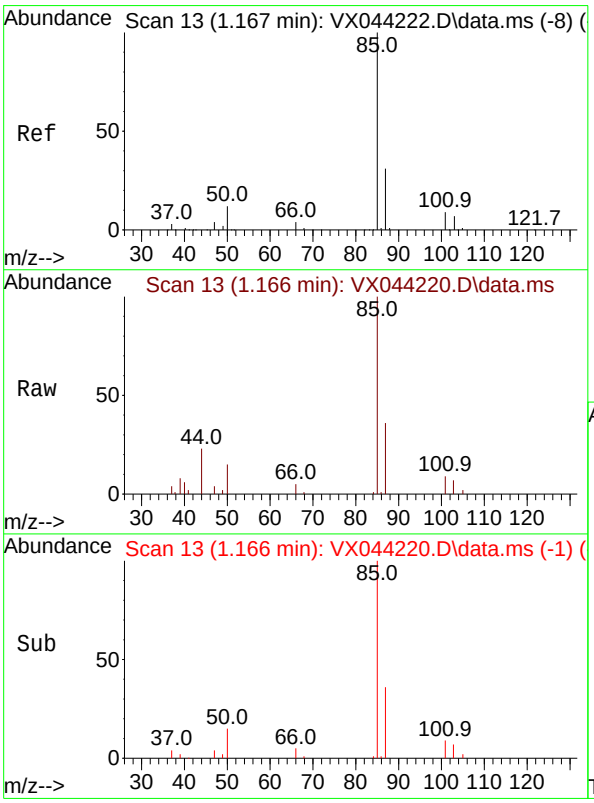
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 139609

Ion	Ratio	Lower	Upper
168	100		
99	71.0	53.4	80.0

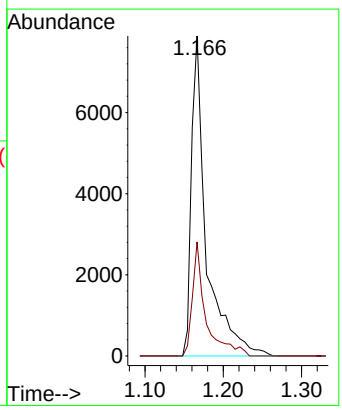


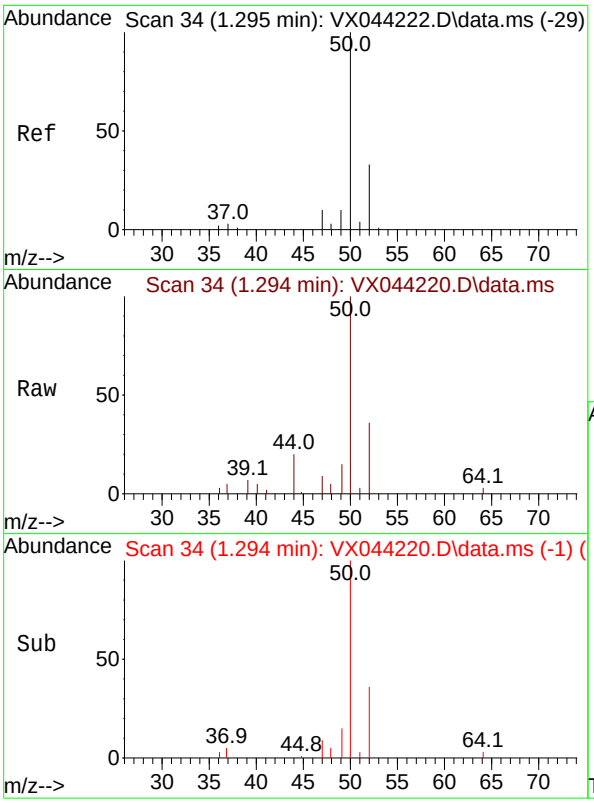


#2
Dichlorodifluoromethane
Concen: 4.842 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 85 Resp: 10452

Ion	Ratio	Lower	Upper
85	100		
87	35.6	15.4	46.4



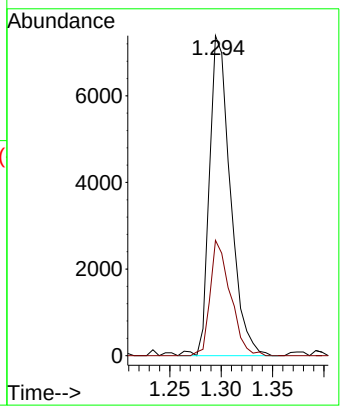


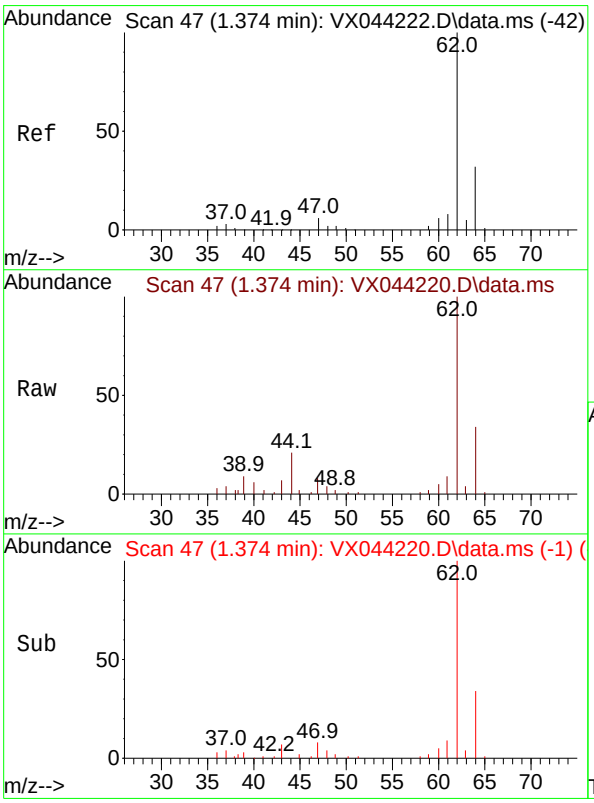
#3
Chloromethane
Concen: 5.052 ug/l
RT: 1.294 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 10429

Ion	Ratio	Lower	Upper
50	100		
52	36.0	26.5	39.7

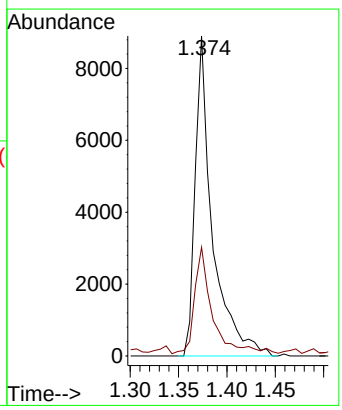


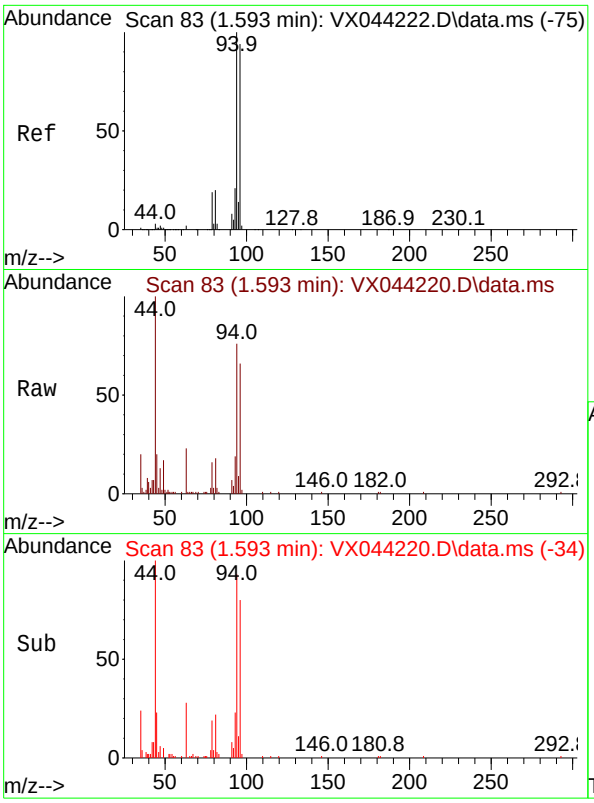


#4
Vinyl Chloride
Concen: 5.129 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 62 Resp: 11031

Ion	Ratio	Lower	Upper
62	100		
64	33.1	25.7	38.5



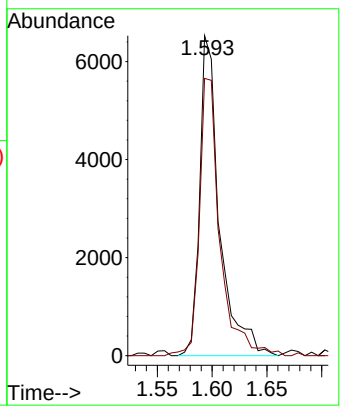


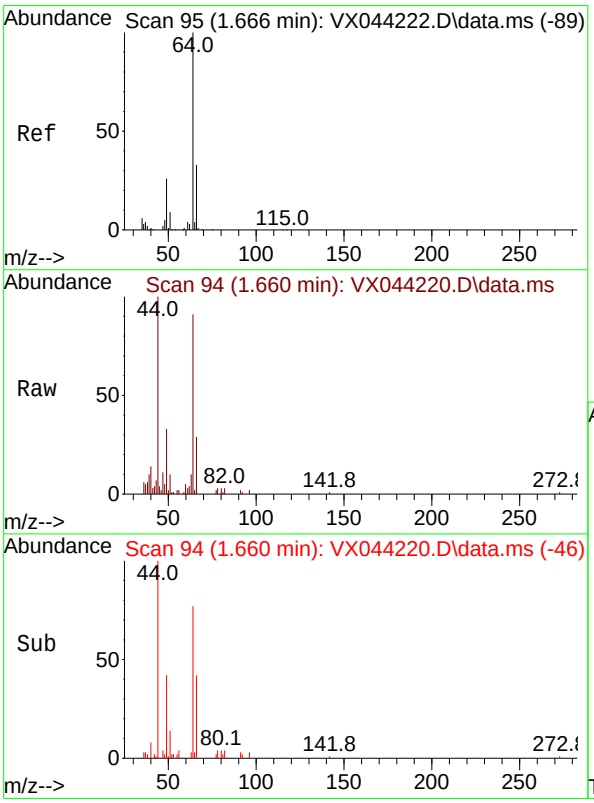
#5
Bromomethane
Concen: 5.399 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 8237

Ion	Ratio	Lower	Upper
94	100		
96	85.5	74.9	112.3

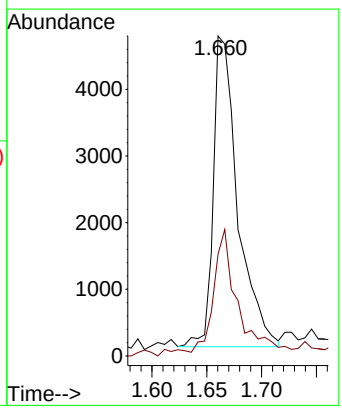


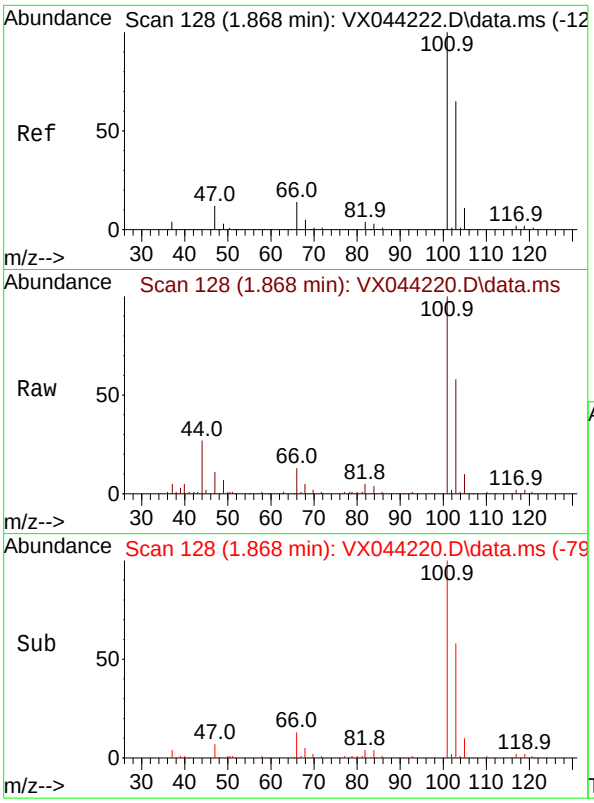


#6
Chloroethane
Concen: 5.416 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 64 Resp: 7253

Ion	Ratio	Lower	Upper
64	100		
66	30.7	26.6	39.8



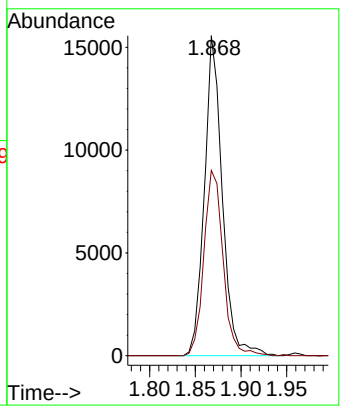


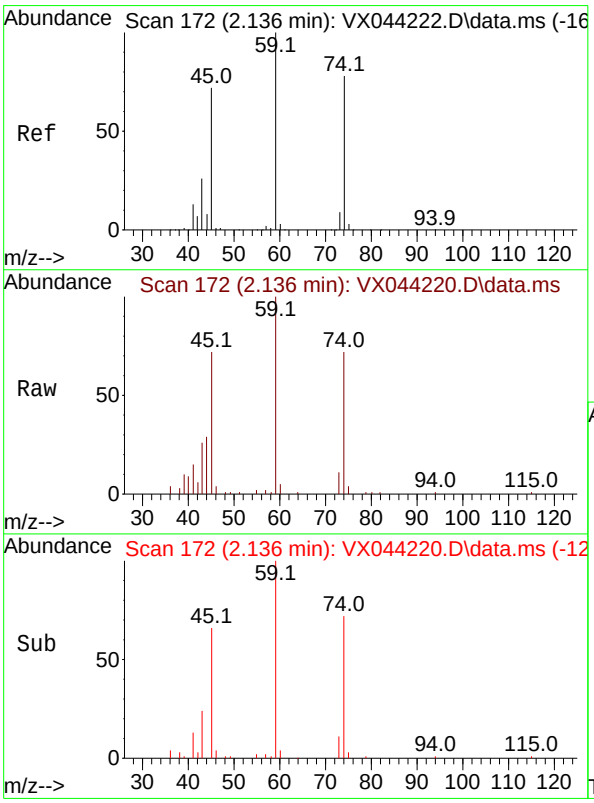
#7
Trichlorofluoromethane
Concen: 5.037 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 21207

Ion	Ratio	Lower	Upper
101	100		
103	57.9	51.8	77.8

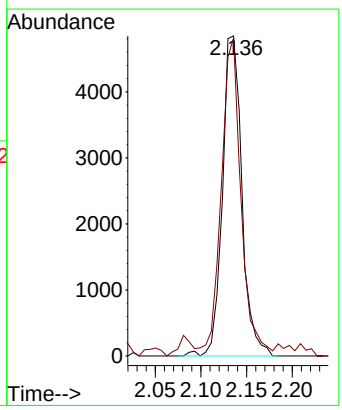


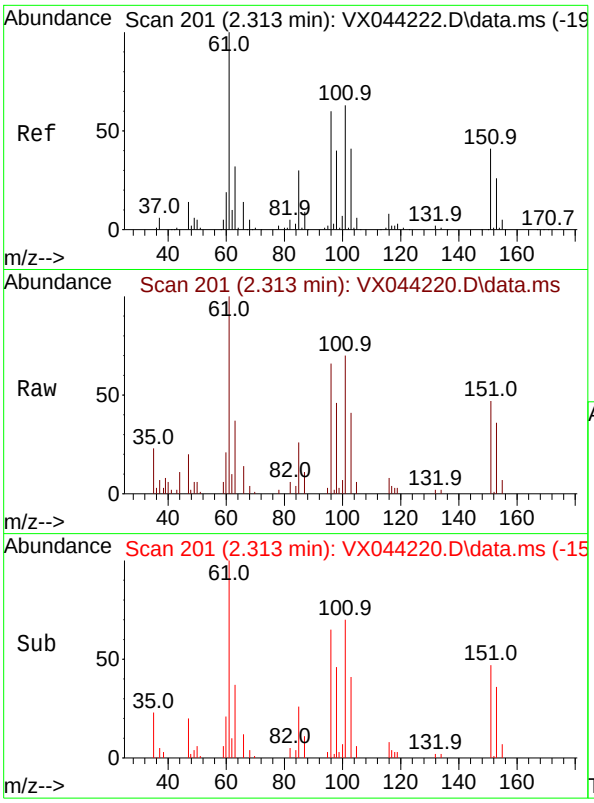


#8
Diethyl Ether
Concen: 5.009 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 74 Resp: 7199

Ion	Ratio	Lower	Upper
74	100		
45	97.0	48.4	145.0



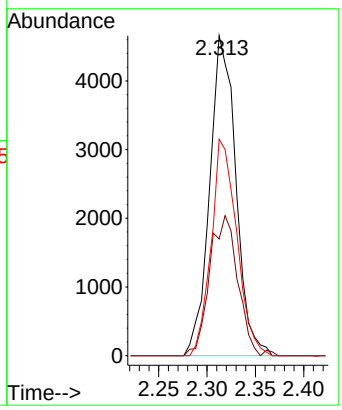


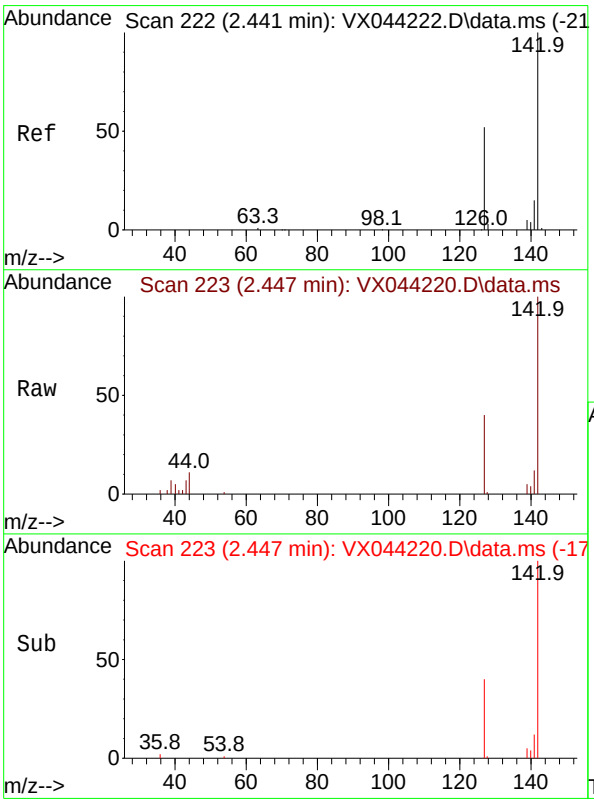
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.145 ug/l
RT: 2.313 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 8766

Ion	Ratio	Lower	Upper
101	100		
85	46.7	38.5	57.7
151	66.2	55.8	83.6

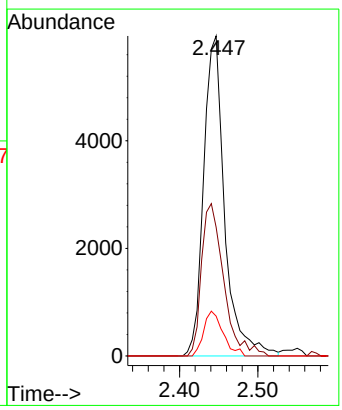


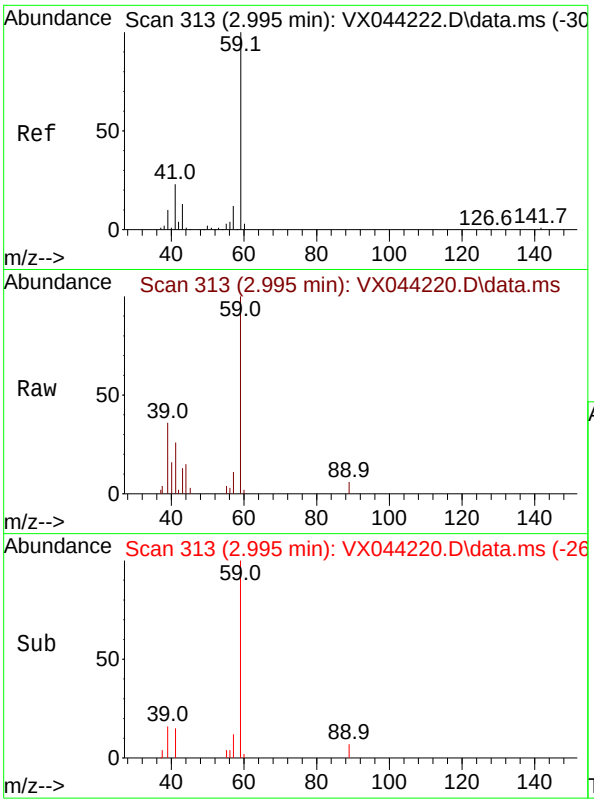


#10
Methyl Iodide
Concen: 4.928 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:142 Resp: 11066

Ion	Ratio	Lower	Upper
142	100		
127	50.4	41.8	62.8
141	12.9	11.5	17.3



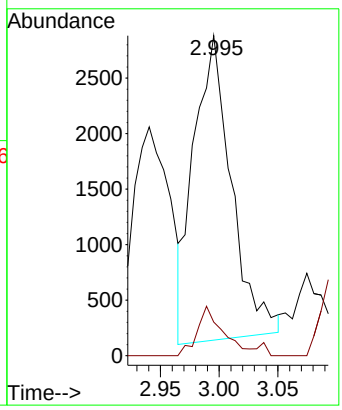


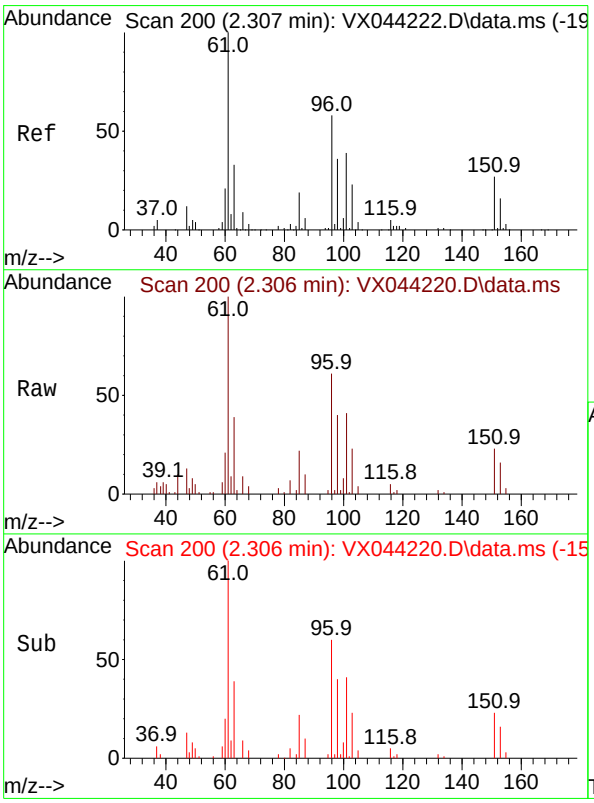
#11
Tert butyl alcohol
Concen: 17.693 ug/l
RT: 2.995 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 6094

Ion	Ratio	Lower	Upper
59	100		
57	11.2	8.8	13.2

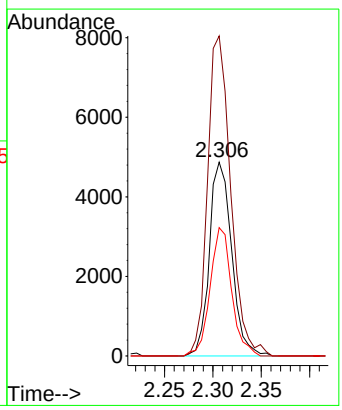


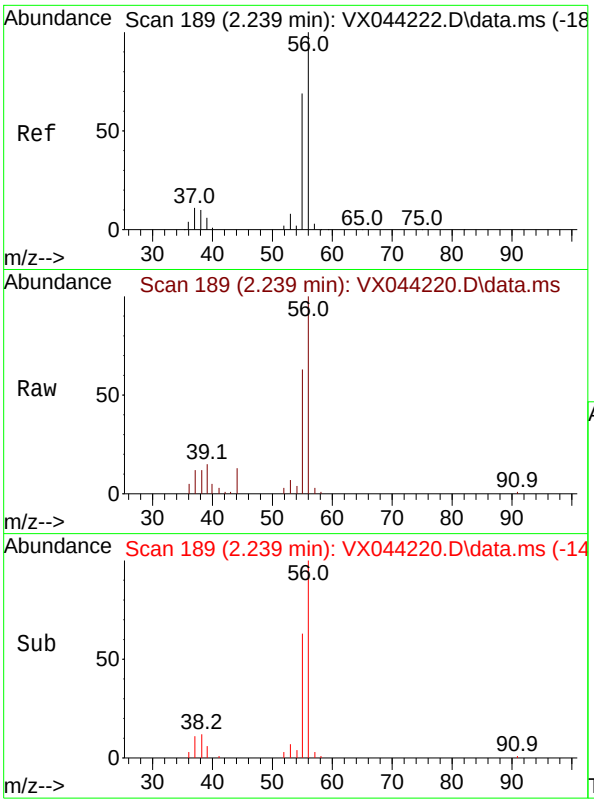


#12
1,1-Dichloroethene
Concen: 4.999 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 96 Resp: 7822

Ion	Ratio	Lower	Upper
96	100		
61	165.2	138.0	207.0
98	66.2	50.0	75.0



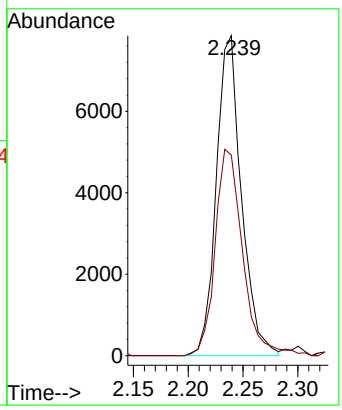


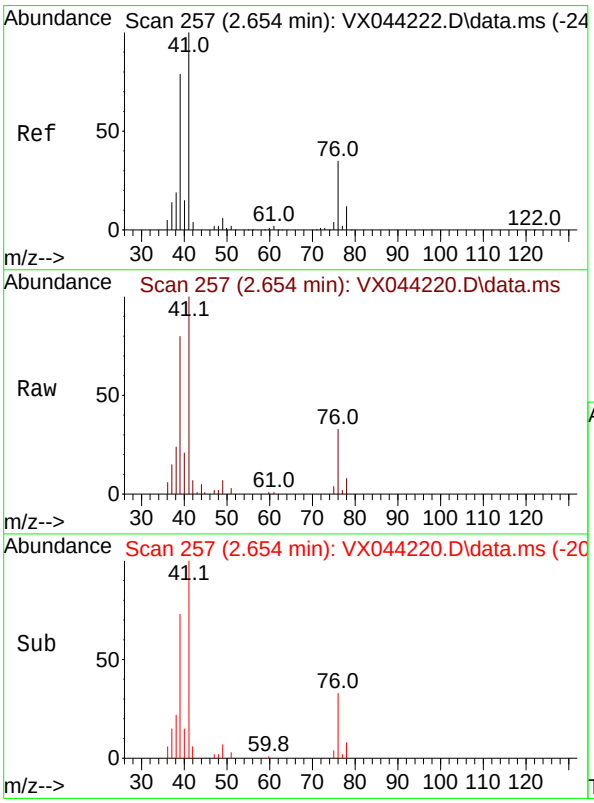
#13
Acrolein
Concen: 25.073 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 12521

Ion	Ratio	Lower	Upper
56	100		
55	70.6	56.6	84.8

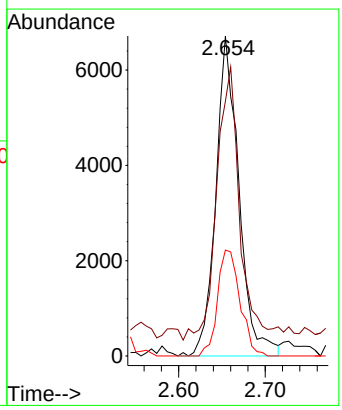


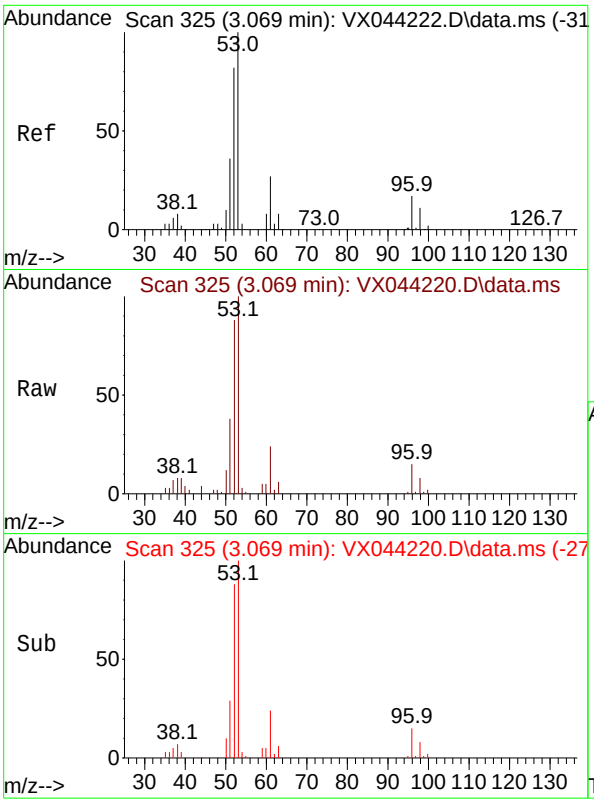


#14
Allyl chloride
Concen: 4.792 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 41 Resp: 12490

Ion	Ratio	Lower	Upper
41	100		
39	84.0	61.9	92.9
76	32.1	27.4	41.2



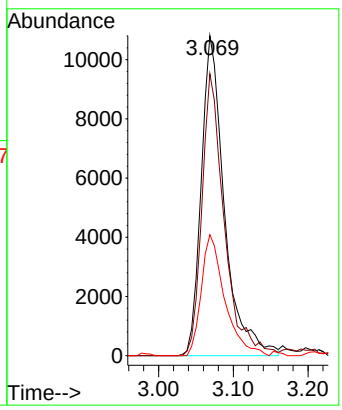


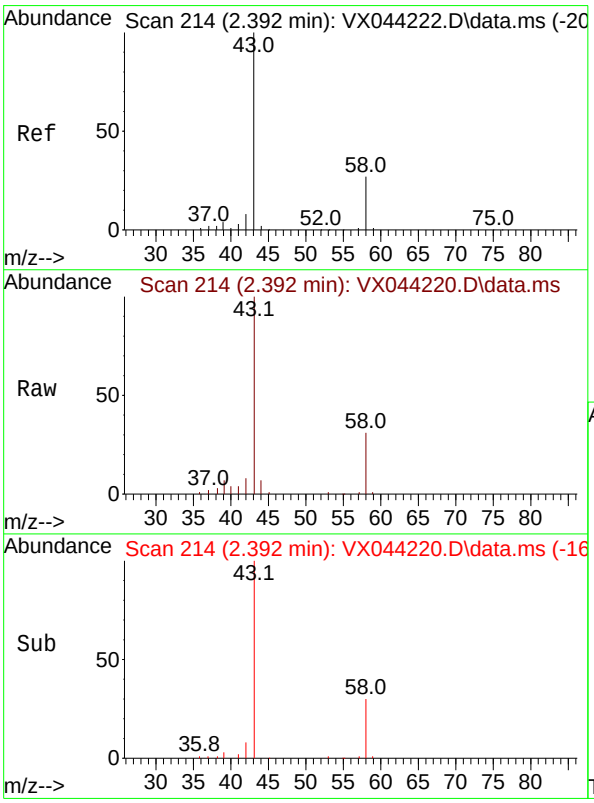
#15
Acrylonitrile
Concen: 24.357 ug/l
RT: 3.069 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 23276

Ion	Ratio	Lower	Upper
53	100		
52	85.0	67.4	101.0
51	38.2	30.3	45.5

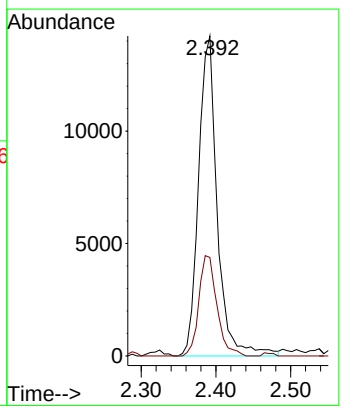


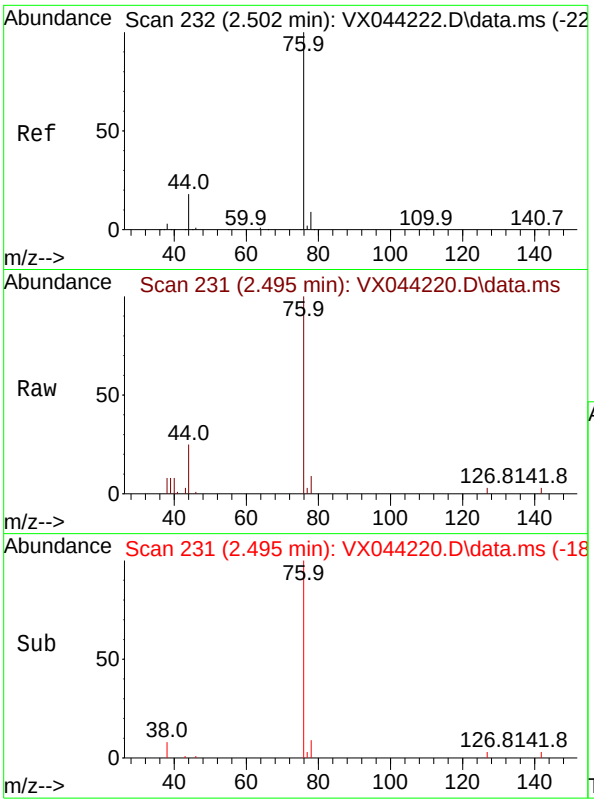


#16
Acetone
Concen: 24.696 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 24645

Ion	Ratio	Lower	Upper
43	100		
58	30.8	21.6	32.4



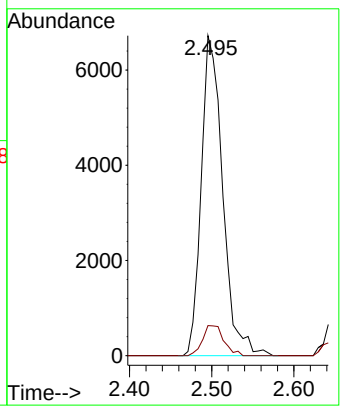


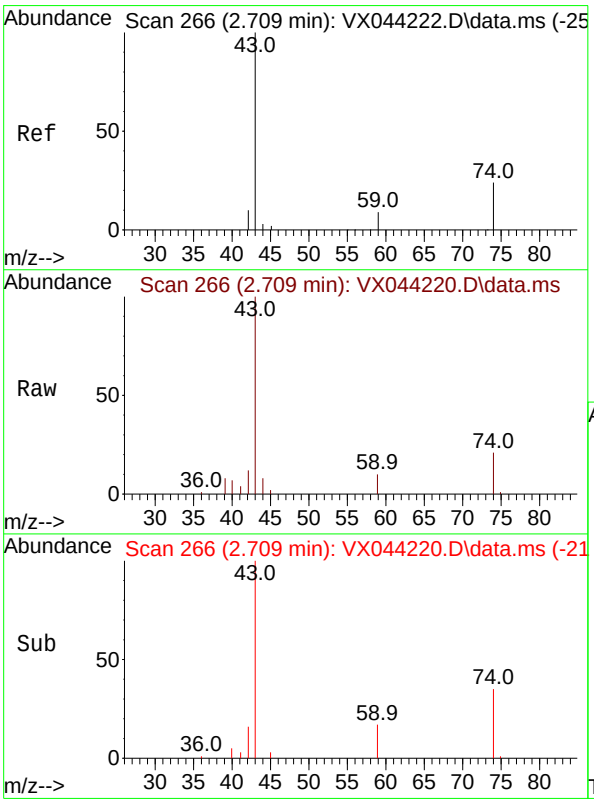
#17
Carbon Disulfide
Concen: 4.091 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 12169

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0

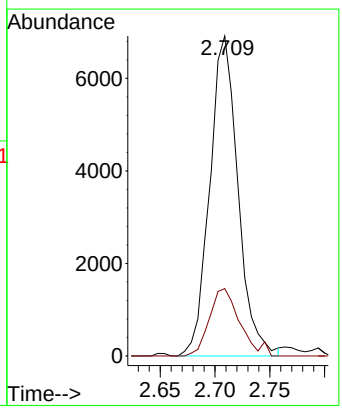


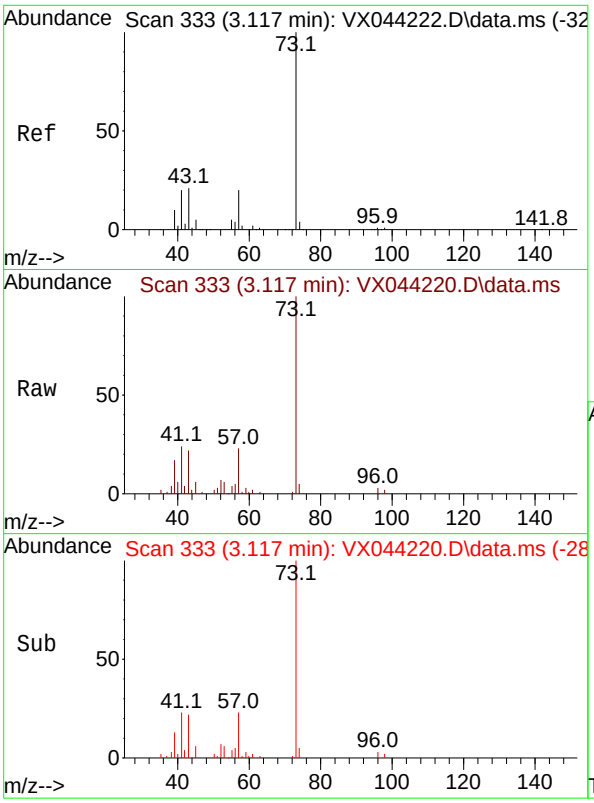


#18
Methyl Acetate
Concen: 4.824 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 12412

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.7	26.5



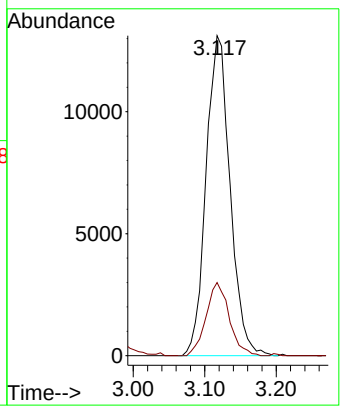


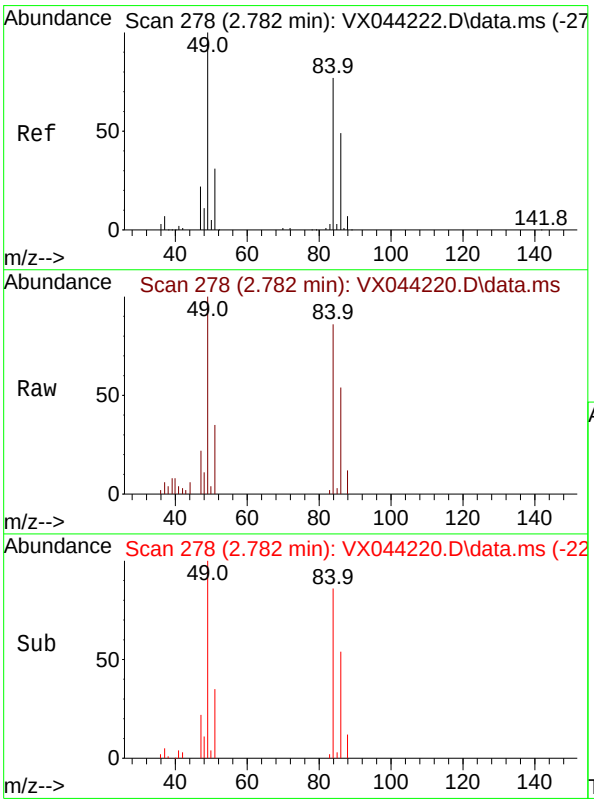
#19
Methyl tert-butyl Ether
Concen: 5.002 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 30546

Ion	Ratio	Lower	Upper
73	100		
57	22.9	16.2	24.4

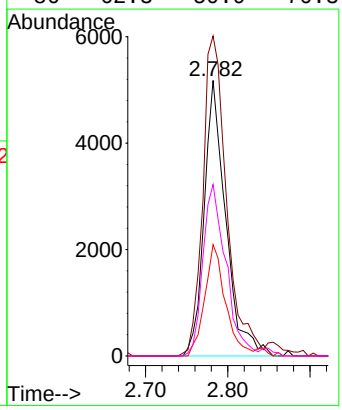


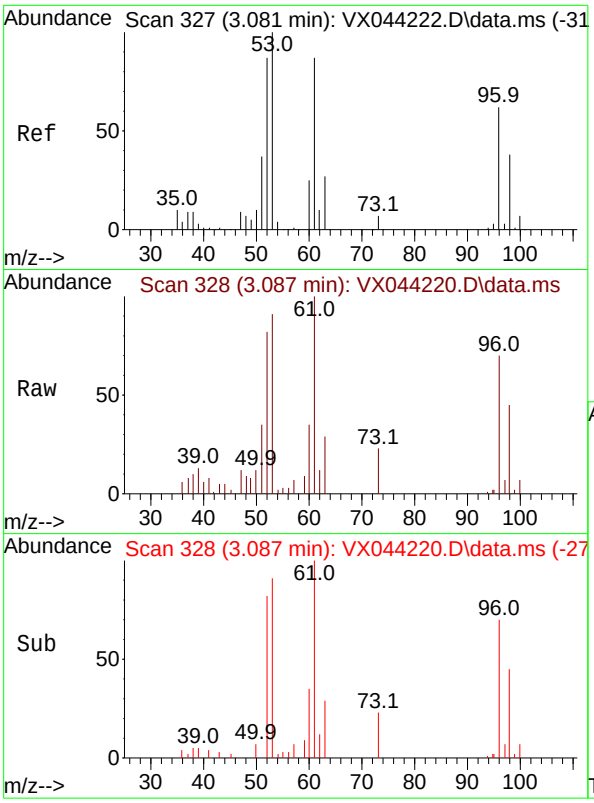


#20
Methylene Chloride
Concen: 5.050 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 84 Resp: 9466

Ion	Ratio	Lower	Upper
84	100		
49	116.2	104.2	156.4
51	40.4	32.2	48.4
86	62.3	50.9	76.3



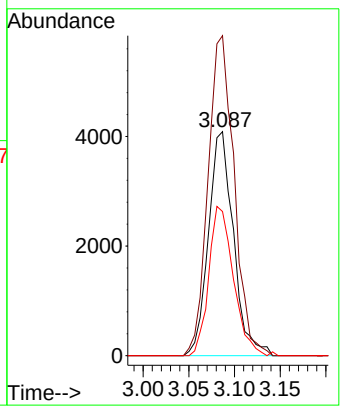


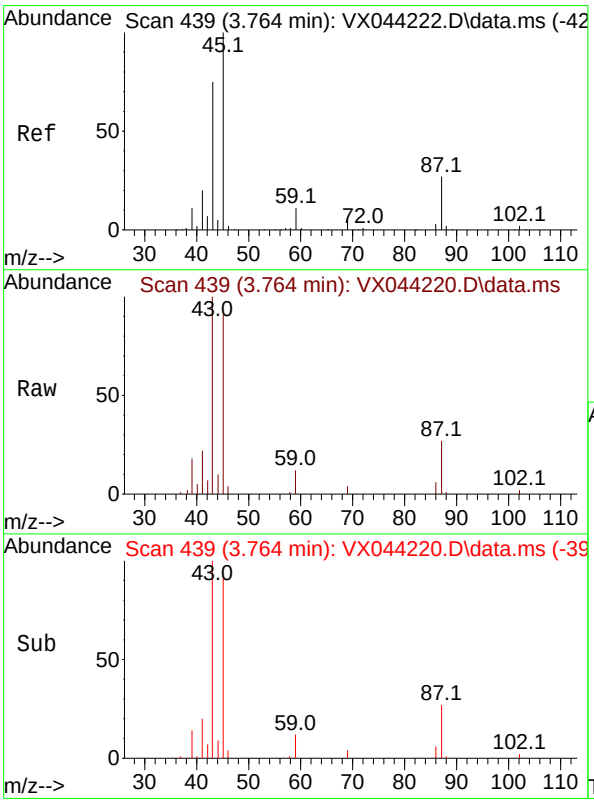
#21
trans-1,2-Dichloroethene
Concen: 4.671 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 7768

Ion	Ratio	Lower	Upper
96	100		
61	142.9	112.0	168.0
98	64.4	48.8	73.2

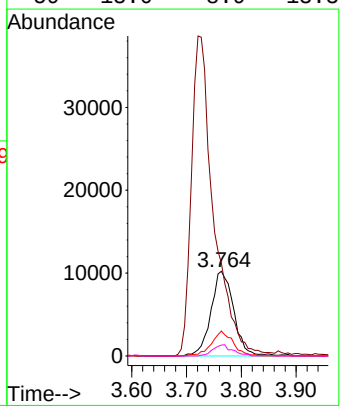


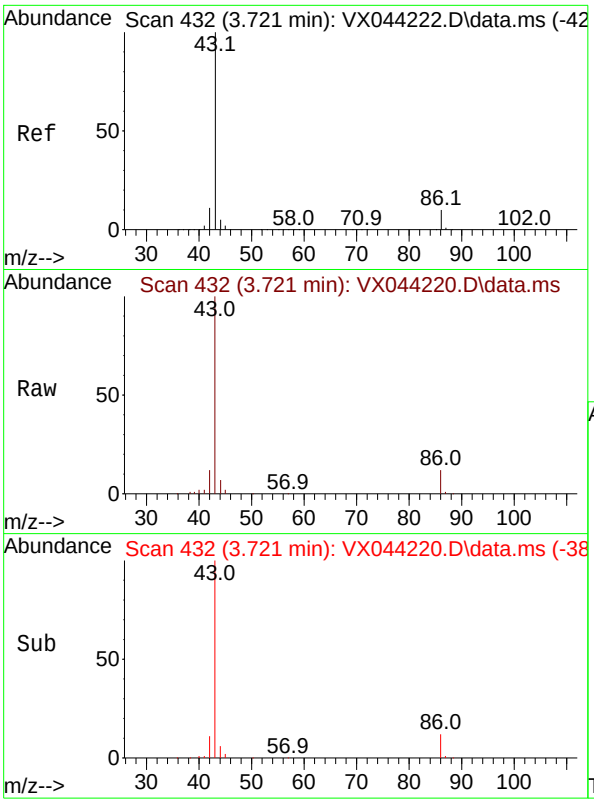


#22
Diisopropyl ether
Concen: 5.029 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 45 Resp: 29518

Ion	Ratio	Lower	Upper
45	100		
43	107.7	60.2	90.2#
87	29.5	21.2	31.8
59	13.0	8.9	13.3



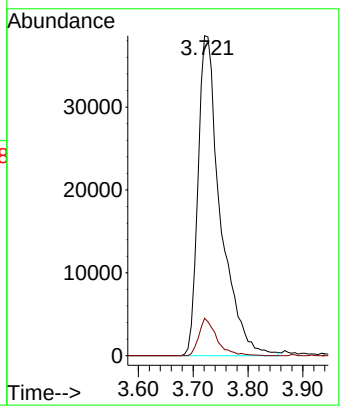


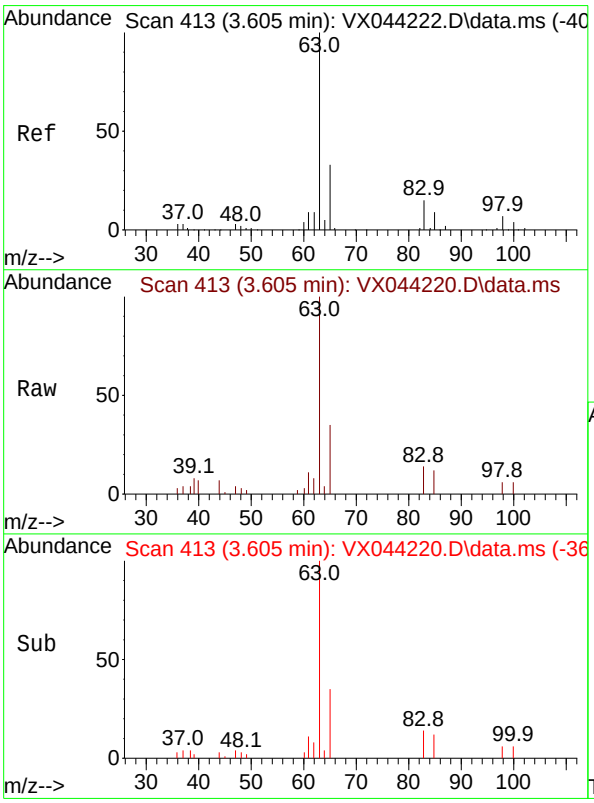
#23
Vinyl Acetate
Concen: 22.983 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 109670

Ion	Ratio	Lower	Upper
43	100		
86	11.7	8.2	12.2

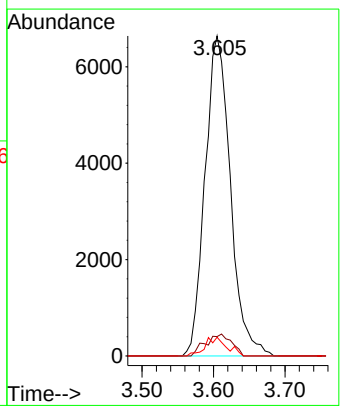


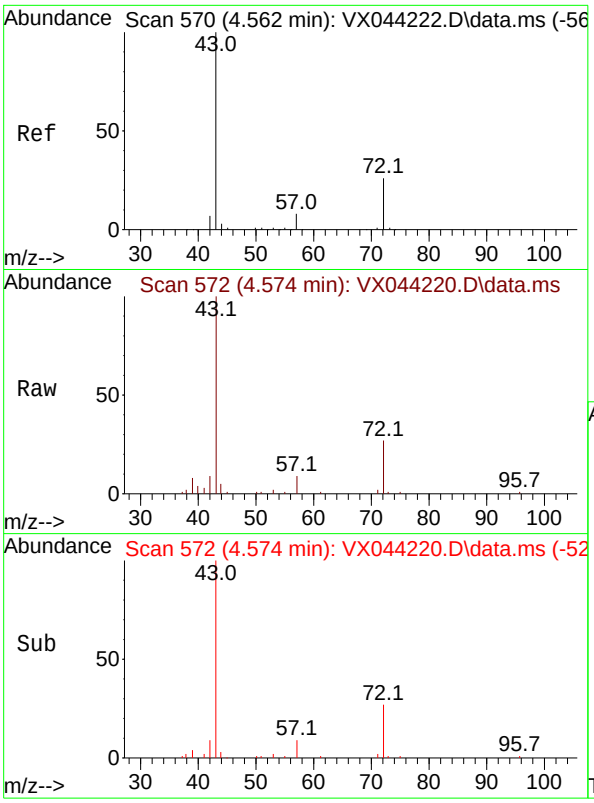


#24
1,1-Dichloroethane
Concen: 5.004 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 63 Resp: 16370

Ion	Ratio	Lower	Upper
63	100		
98	6.0	3.6	10.8
100	5.9	2.1	6.3



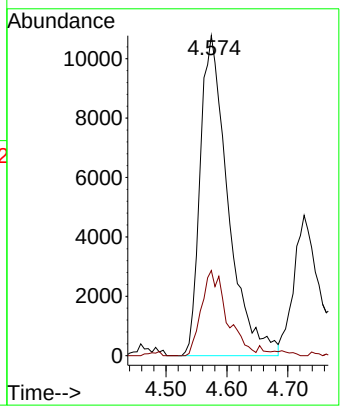


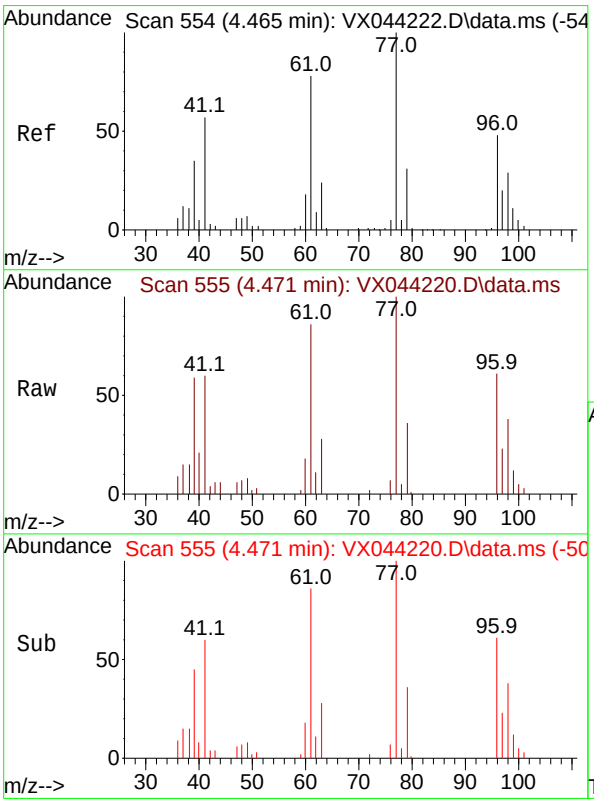
#25
2-Butanone
Concen: 24.138 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 34245

Ion	Ratio	Lower	Upper
43	100		
72	26.6	20.2	30.4

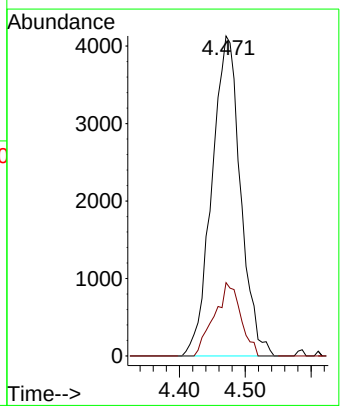


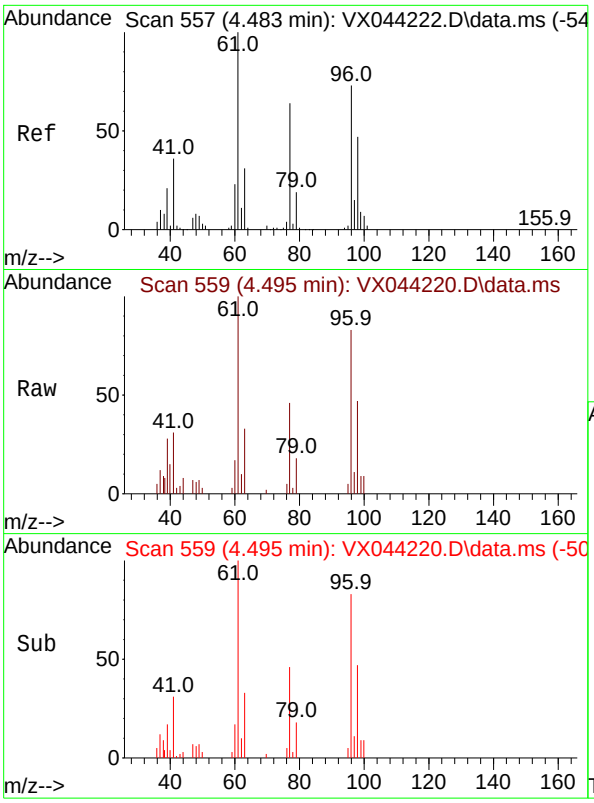


#26
2,2-Dichloropropane
Concen: 4.708 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 77 Resp: 12514

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.7	32.1



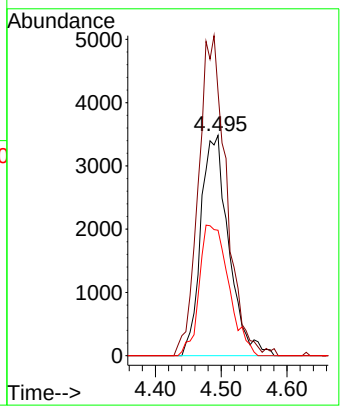


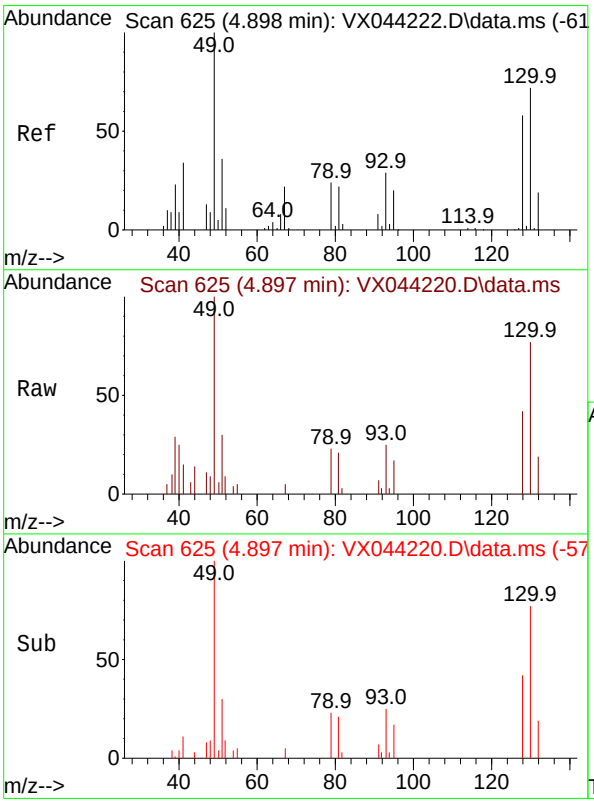
#27
cis-1,2-Dichloroethene
Concen: 4.873 ug/l
RT: 4.495 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 10292

Ion	Ratio	Lower	Upper
96	100		
61	145.0	0.0	299.0
98	62.4	0.0	129.0

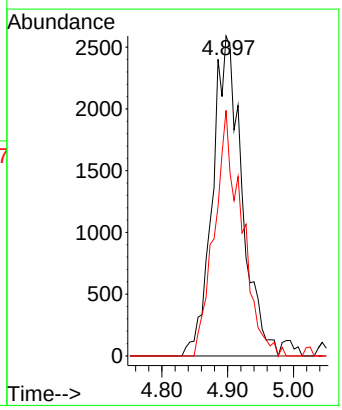


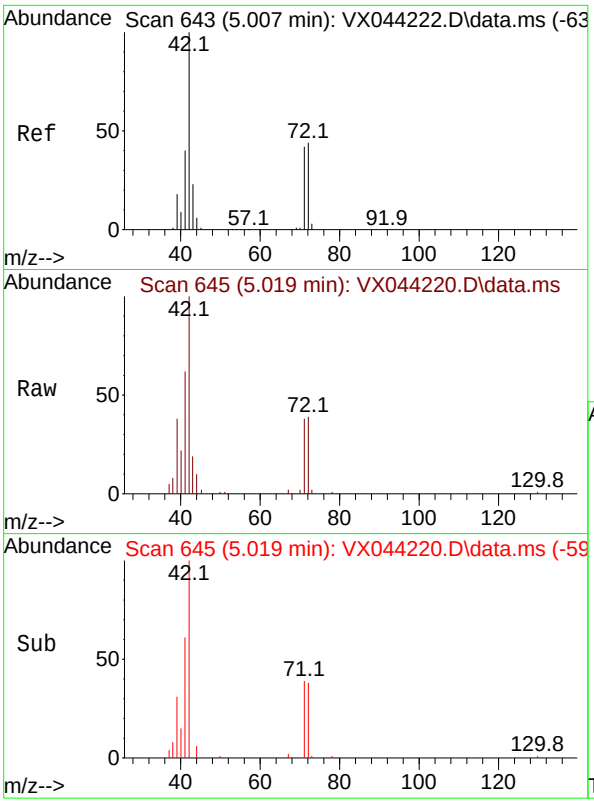


#28
Bromochloromethane
Concen: 5.017 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 49 Resp: 8049

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	71.2	62.1	93.1



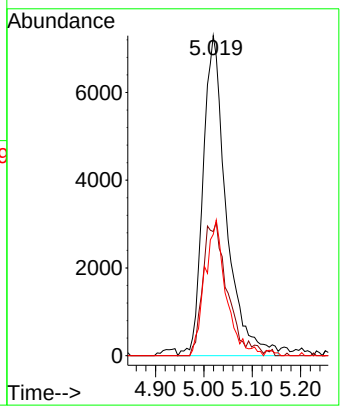


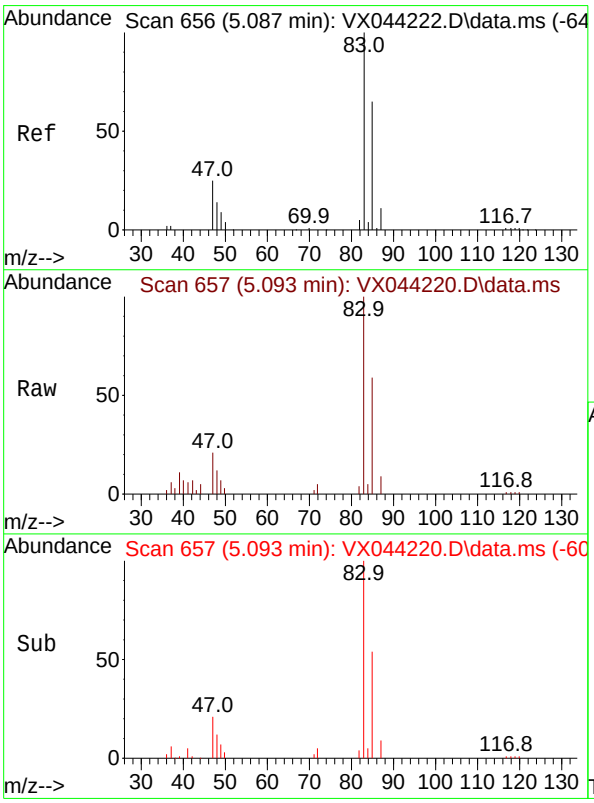
#29
Tetrahydrofuran
Concen: 26.693 ug/l
RT: 5.019 min Scan# 6
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 24307

Ion	Ratio	Lower	Upper
42	100		
72	42.3	37.0	55.6
71	38.9	33.6	50.4

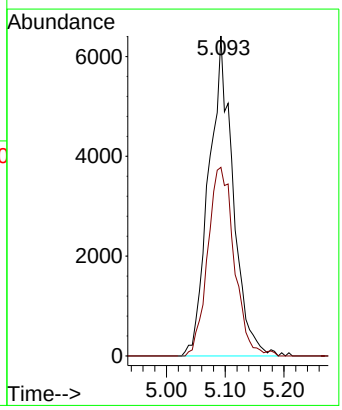


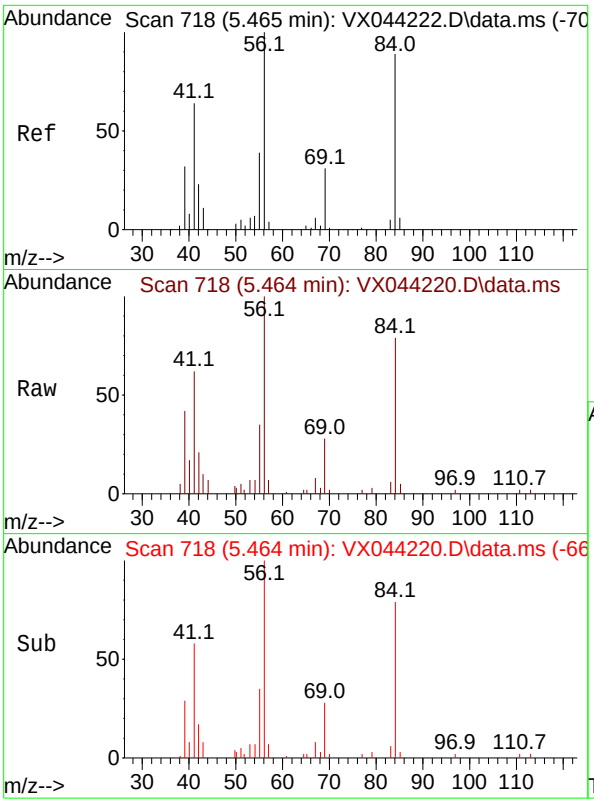


#30
Chloroform
Concen: 4.984 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 83 Resp: 18319

Ion	Ratio	Lower	Upper
83	100		
85	58.9	51.6	77.4



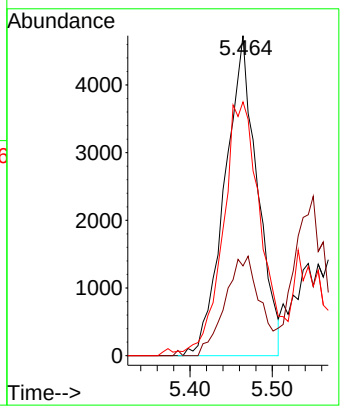


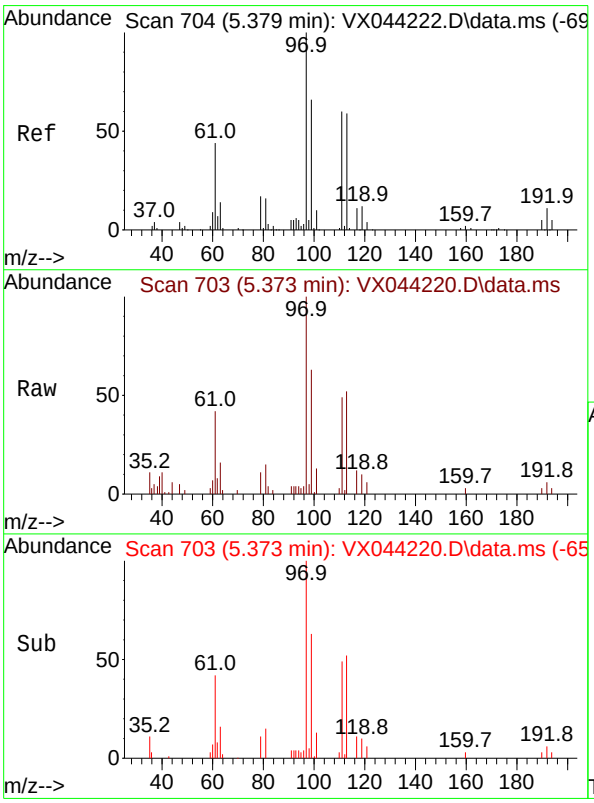
#31
Cyclohexane
Concen: 4.919 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 12995

Ion	Ratio	Lower	Upper
56	100		
69	26.4	24.7	37.1
84	77.9	71.0	106.6

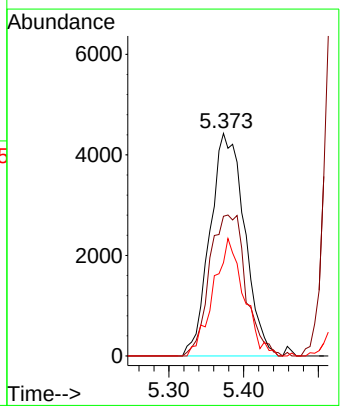


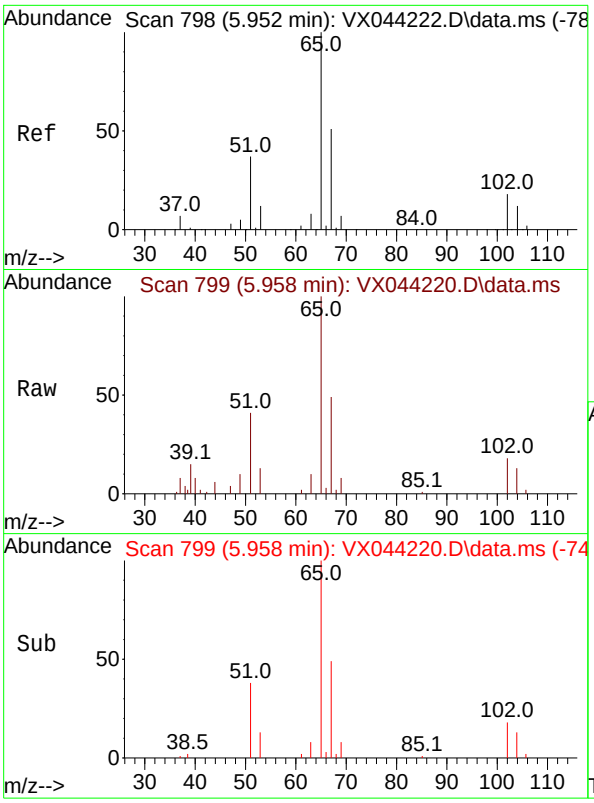


#32
1,1,1-Trichloroethane
Concen: 4.664 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 97 Resp: 14231

Ion	Ratio	Lower	Upper
97	100		
99	66.8	50.8	76.2
61	46.9	35.2	52.8



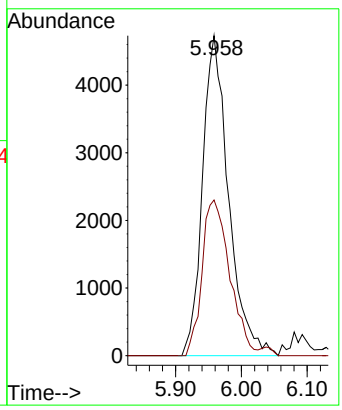


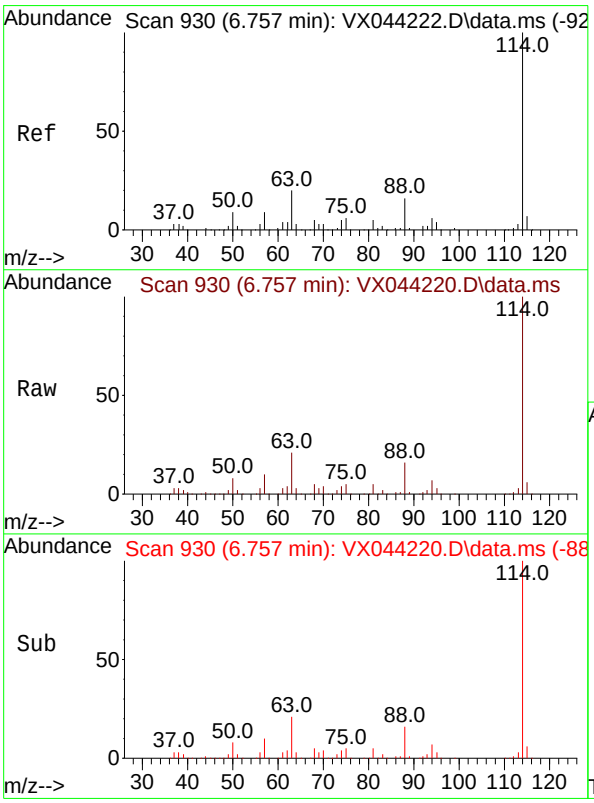
#33
1,2-Dichloroethane-d4
Concen: 5.328 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 13043

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	101.6

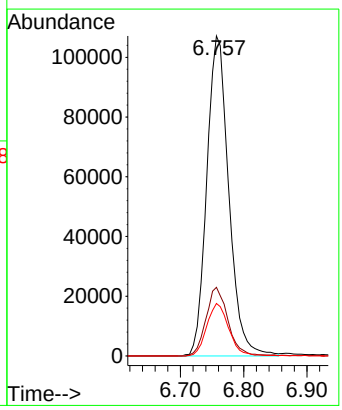


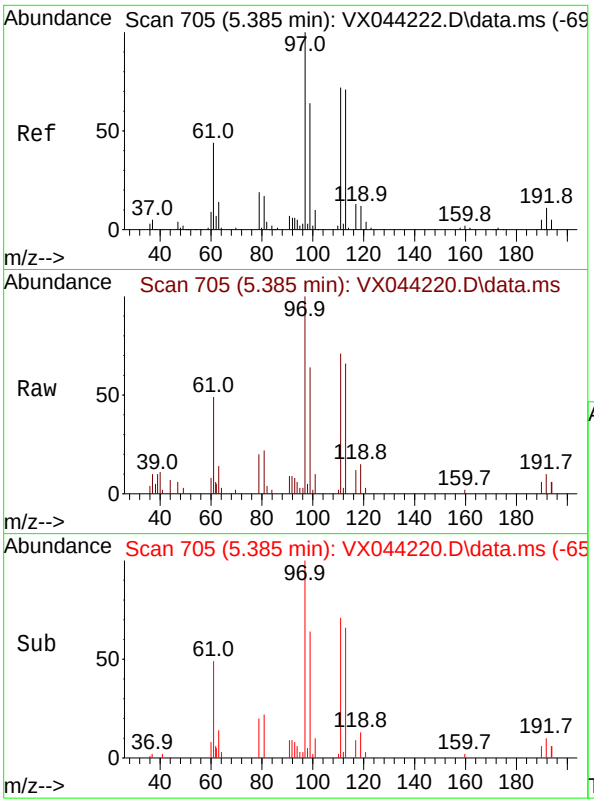


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:114 Resp: 258881

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	40.6
88	16.4	0.0	31.8



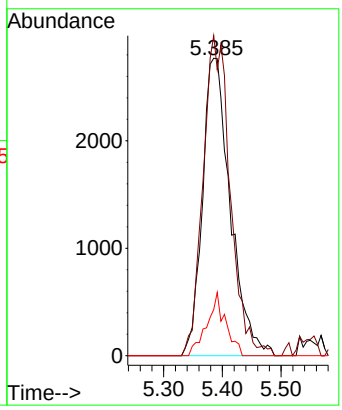


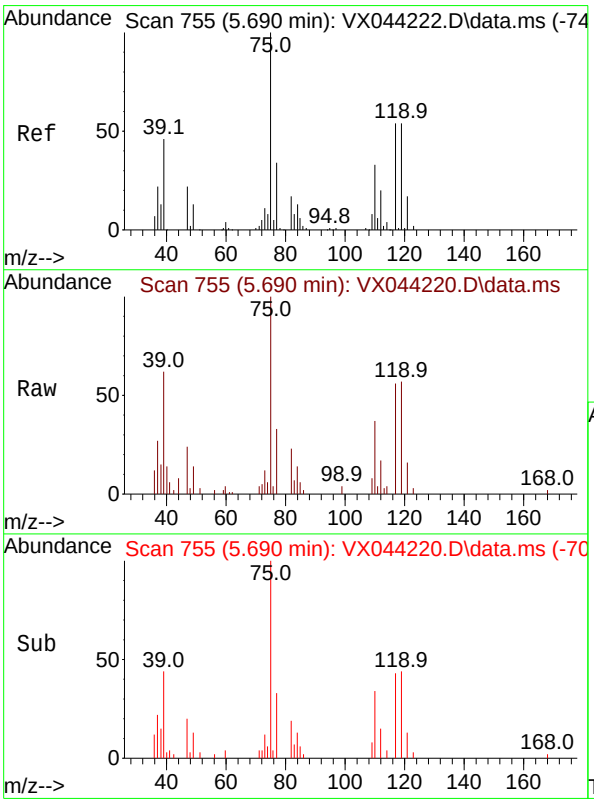
#35
Dibromofluoromethane
Concen: 5.100 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 9145

Ion	Ratio	Lower	Upper
113	100		
111	104.7	80.4	120.6
192	14.2	13.3	19.9

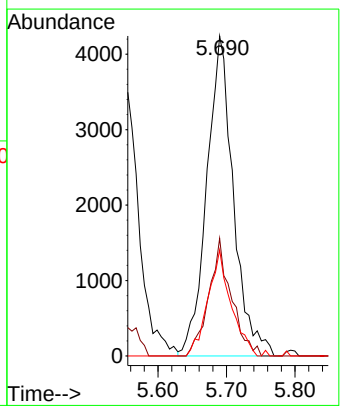


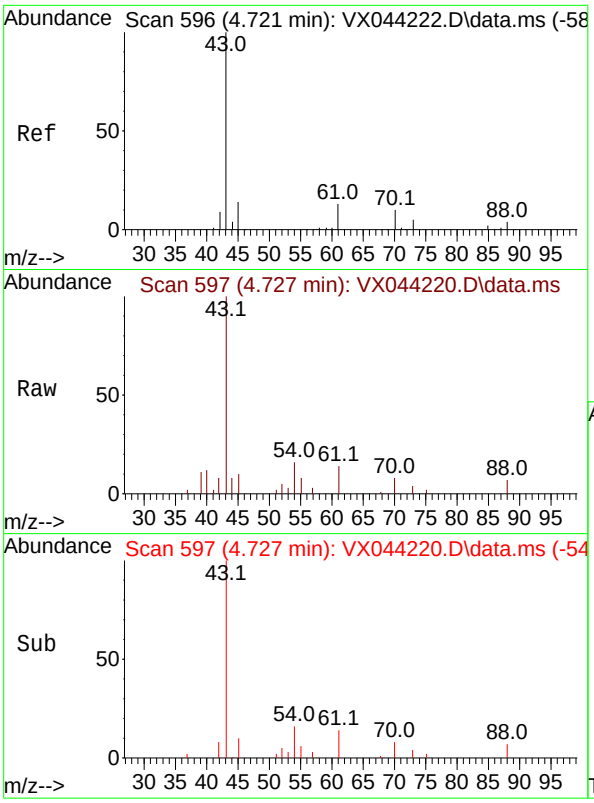


#36
1,1-Dichloropropene
Concen: 4.942 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 11455

Ion	Ratio	Lower	Upper
75	100		
110	31.1	17.3	51.7
77	28.7	25.4	38.0



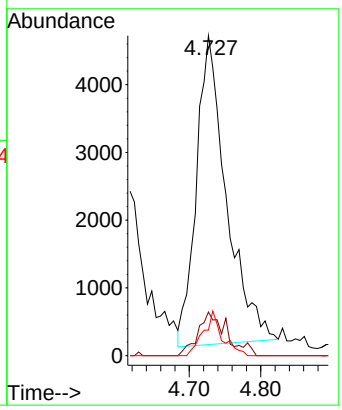


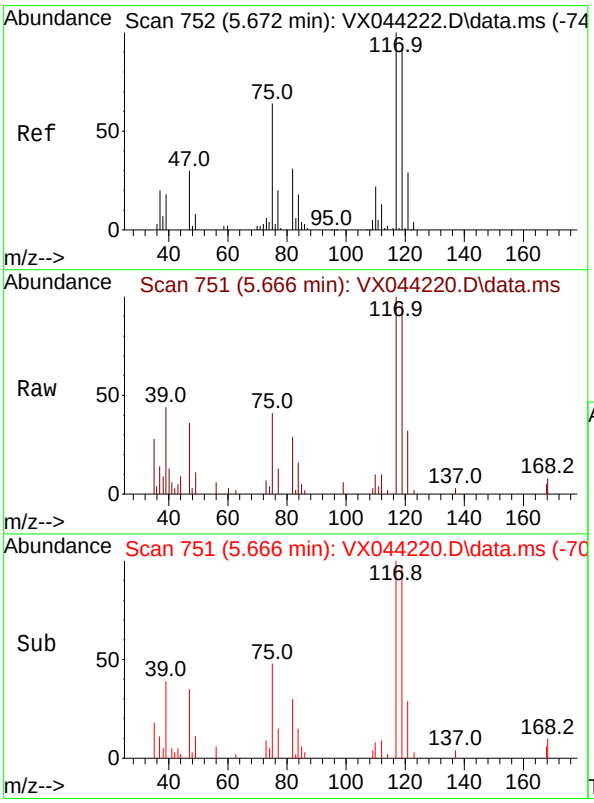
#37
Ethyl Acetate
Concen: 4.630 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 13265

Ion	Ratio	Lower	Upper
43	100		
61	13.6	9.8	14.8
70	9.1	7.7	11.5

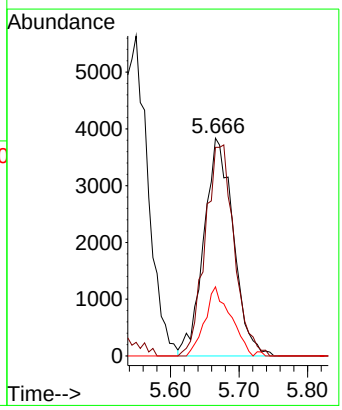


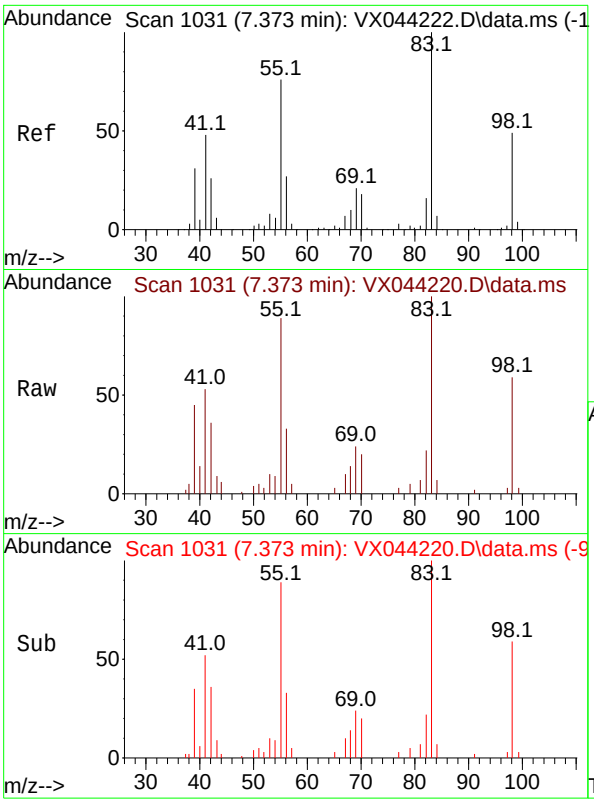


#38
Carbon Tetrachloride
Concen: 4.599 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:117 Resp: 11476

Ion	Ratio	Lower	Upper
117	100		
119	95.8	74.2	111.4
121	31.7	23.0	34.6



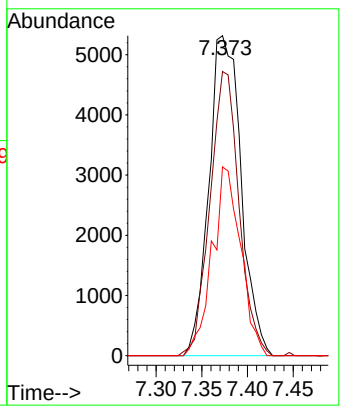


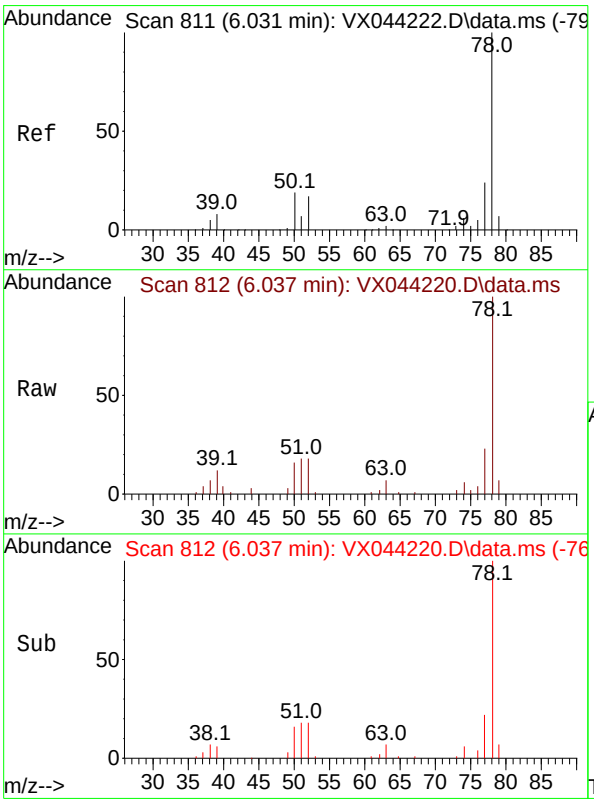
#39
Methylcyclohexane
Concen: 4.699 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 13019

Ion	Ratio	Lower	Upper
83	100		
55	88.8	60.7	91.1
98	59.0	38.9	58.3#

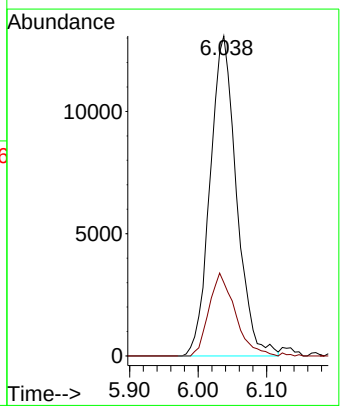


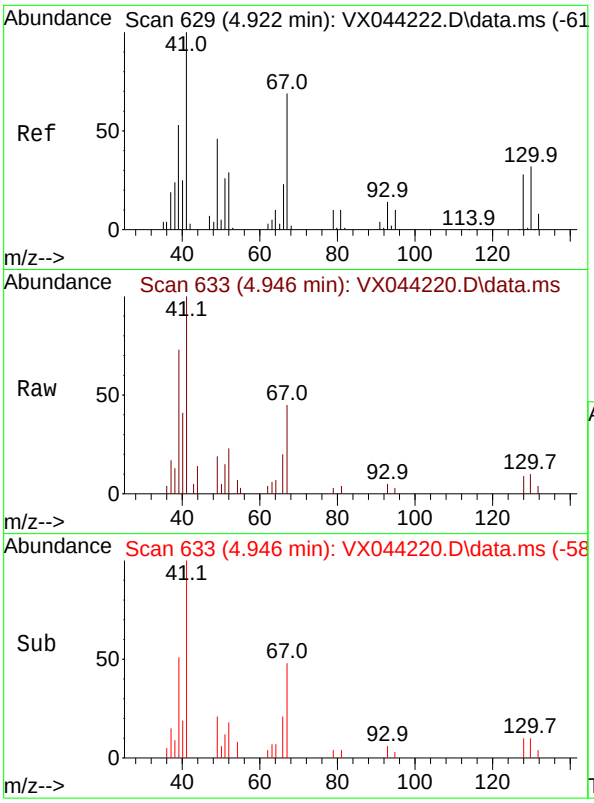


#40
Benzene
Concen: 4.976 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 78 Resp: 35018

Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.3	28.9



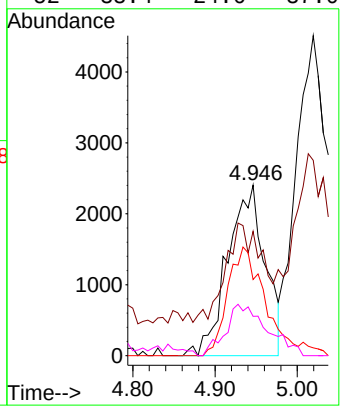


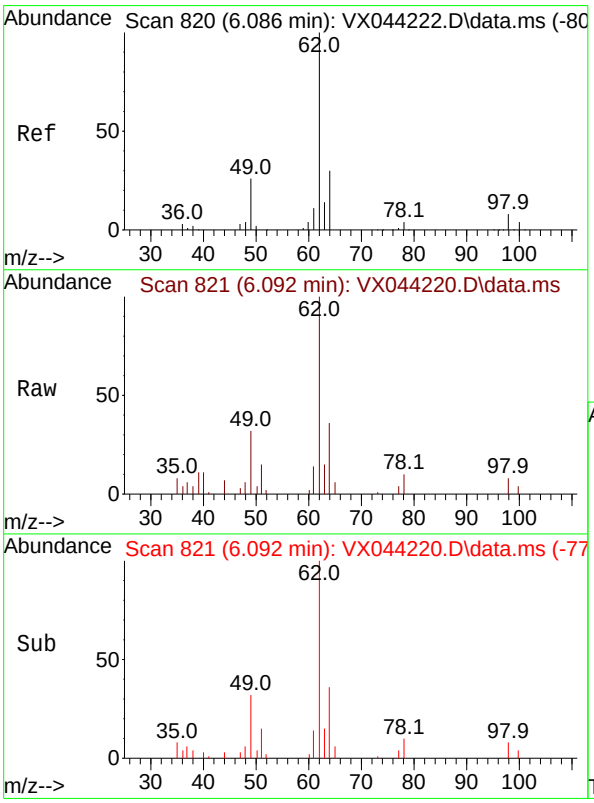
#41
Methacrylonitrile
Concen: 4.986 ug/l
RT: 4.946 min Scan# 6
Delta R.T. 0.024 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 7585

Ion	Ratio	Lower	Upper
41	100		
39	58.4	44.2	66.4
67	63.0	57.2	85.8
52	33.4	24.6	37.0

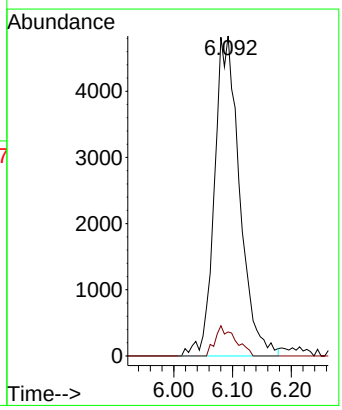


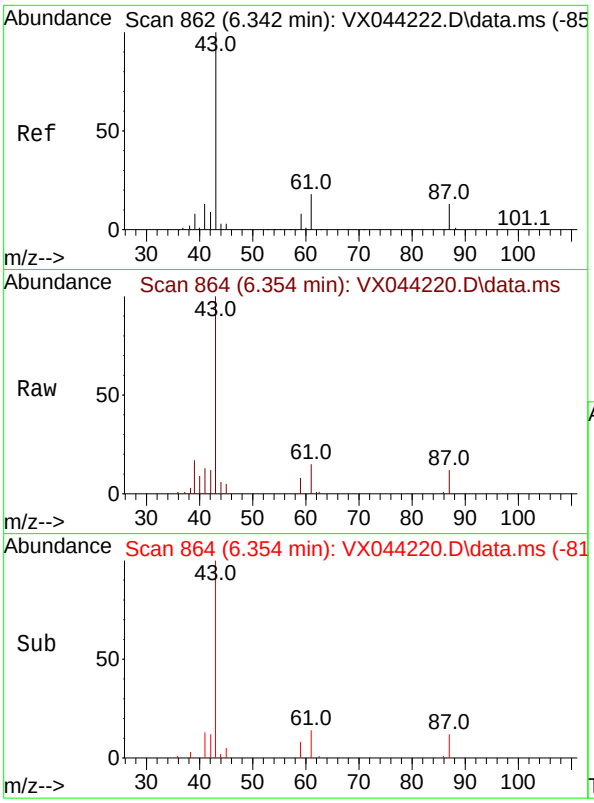


#42
1,2-Dichloroethane
Concen: 4.974 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 62 Resp: 14419

Ion	Ratio	Lower	Upper
62	100		
98	7.5	0.0	15.8



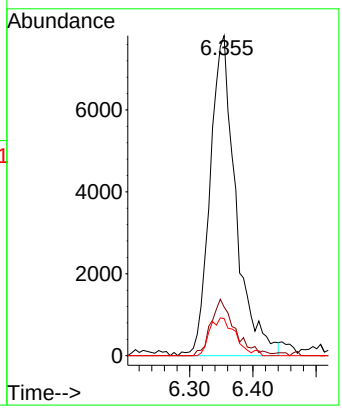


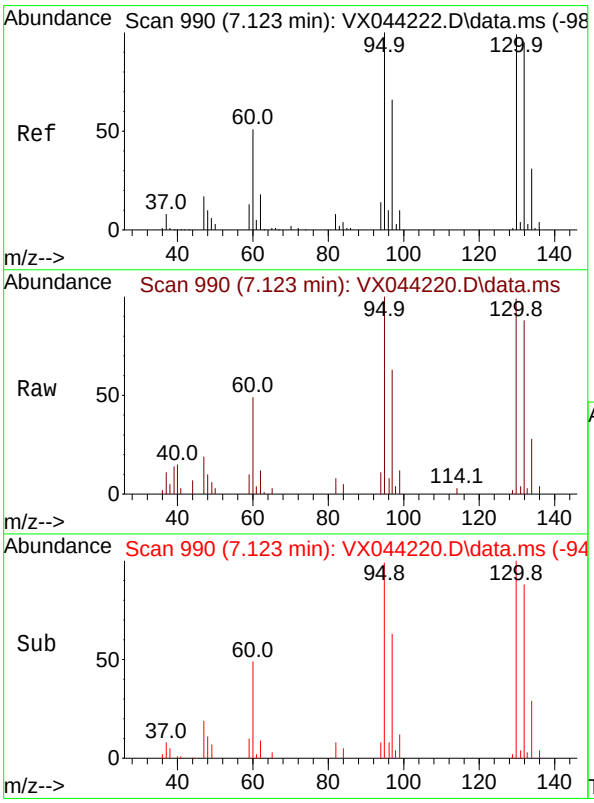
#43
Isopropyl Acetate
Concen: 4.935 ug/l
RT: 6.354 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 22098

Ion	Ratio	Lower	Upper
43	100		
61	16.5	14.2	21.2
87	11.9	10.2	15.2

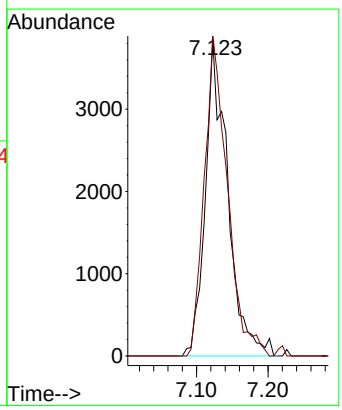


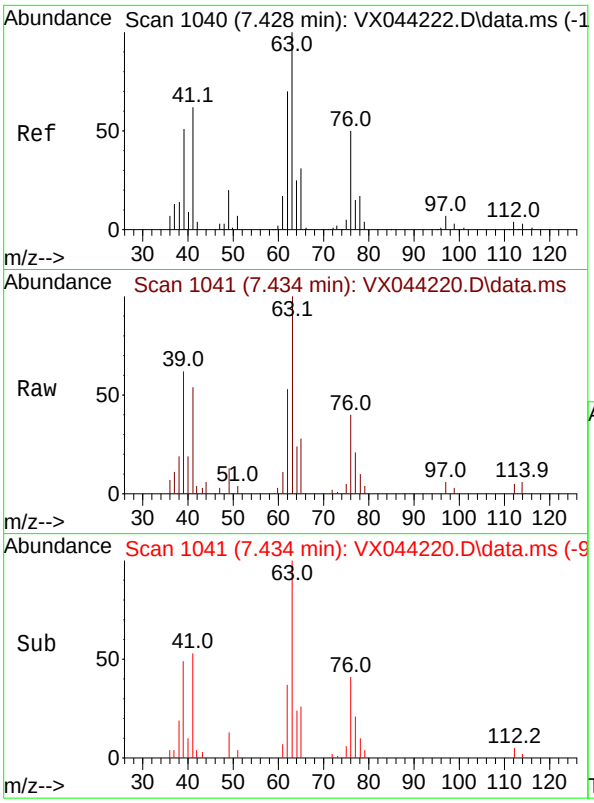


#44
Trichloroethene
Concen: 4.790 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:130 Resp: 8405

Ion	Ratio	Lower	Upper
130	100		
95	100.9	0.0	201.4



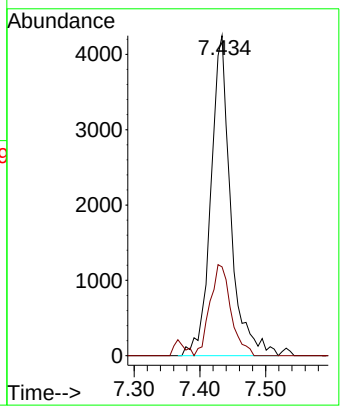


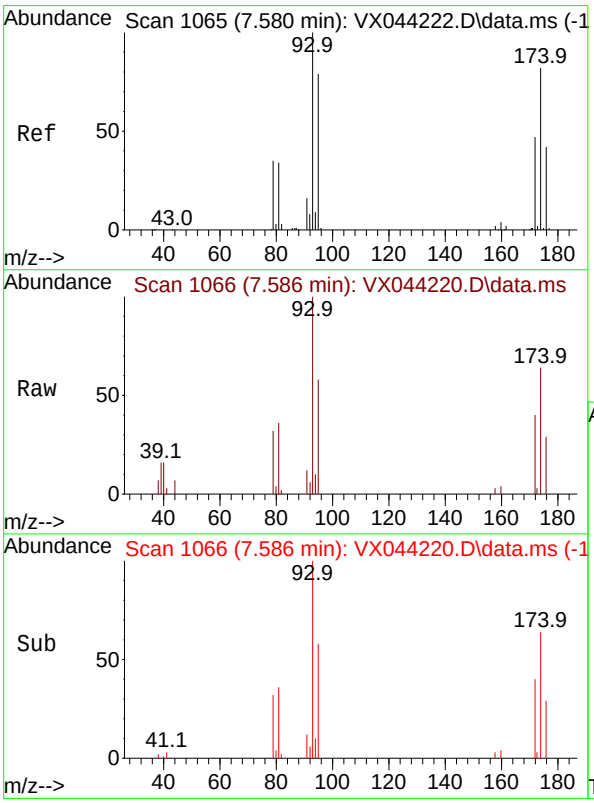
#45
1,2-Dichloropropane
Concen: 4.968 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 8932

Ion	Ratio	Lower	Upper
63	100		
65	27.8	24.6	37.0

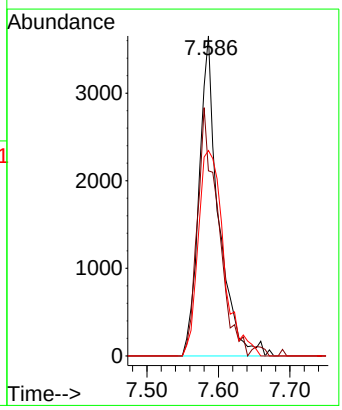


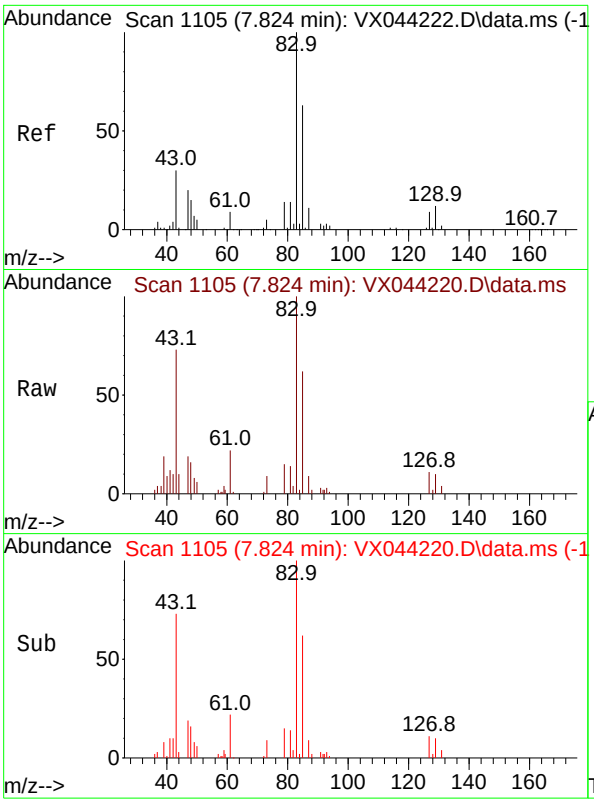


#46
Dibromomethane
Concen: 4.958 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 93 Resp: 6915

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.4	98.2
174	83.6	67.9	101.9



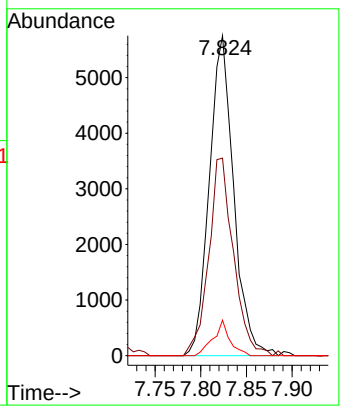


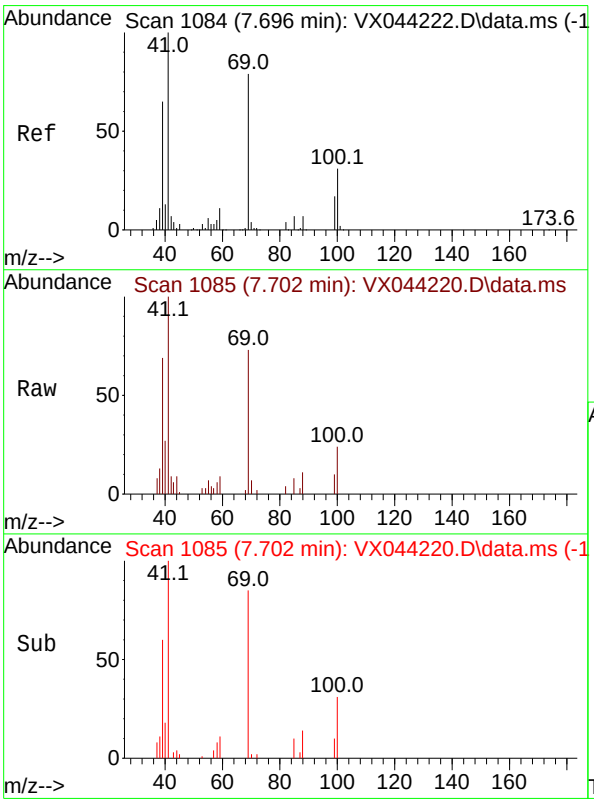
#47
Bromodichloromethane
Concen: 4.420 ug/l
RT: 7.824 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 10646

Ion	Ratio	Lower	Upper
83	100		
85	61.7	50.6	75.8
127	11.1	7.3	10.9#

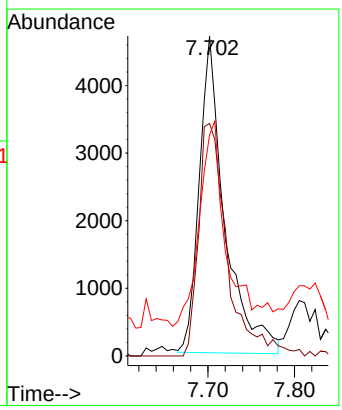


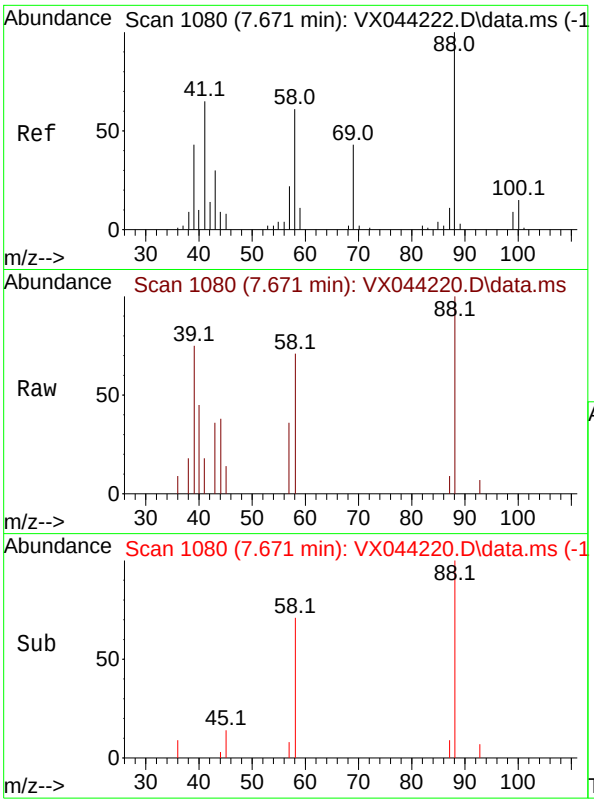


#48
Methyl methacrylate
Concen: 4.410 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 41 Resp: 9586

Ion	Ratio	Lower	Upper
41	100		
69	82.8	62.4	93.6
39	66.7	53.3	79.9



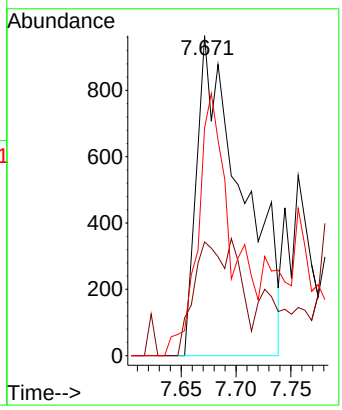


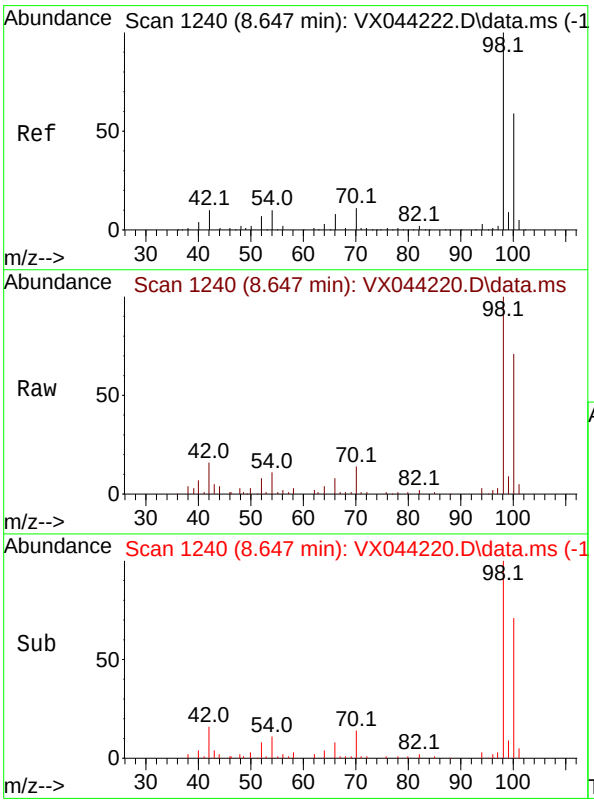
#49
1,4-Dioxane
Concen: 74.917 ug/l
RT: 7.671 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 2783

Ion	Ratio	Lower	Upper
88	100		
43	23.3	27.1	40.7#
58	61.6	41.0	61.4#

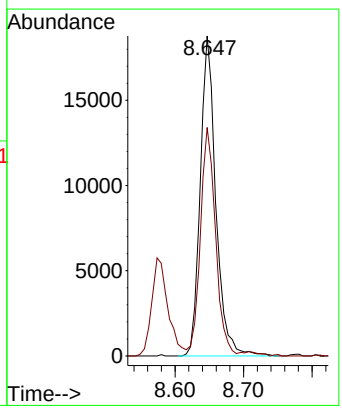


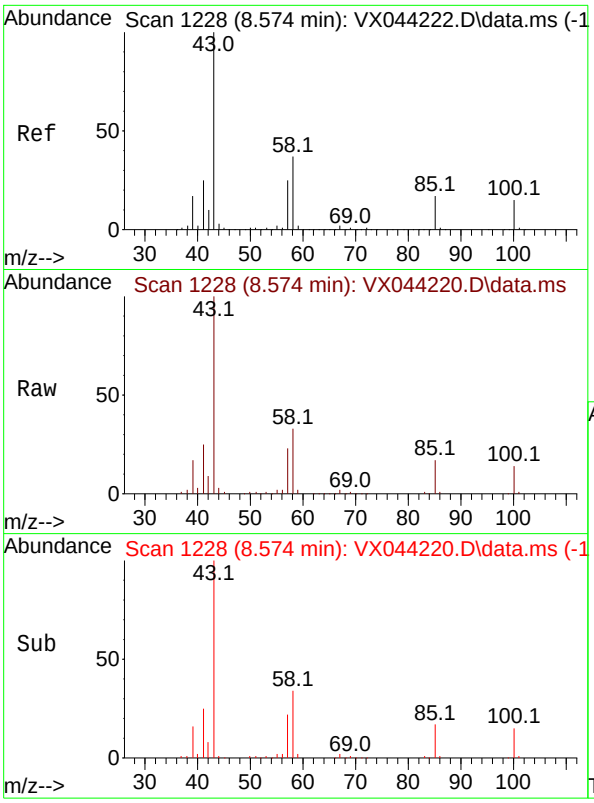


#50
Toluene-d8
Concen: 4.915 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 98 Resp: 29732

Ion	Ratio	Lower	Upper
98	100		
100	67.4	51.5	77.3



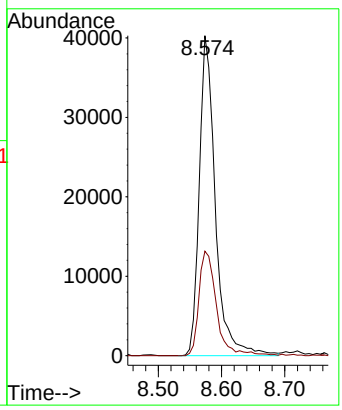


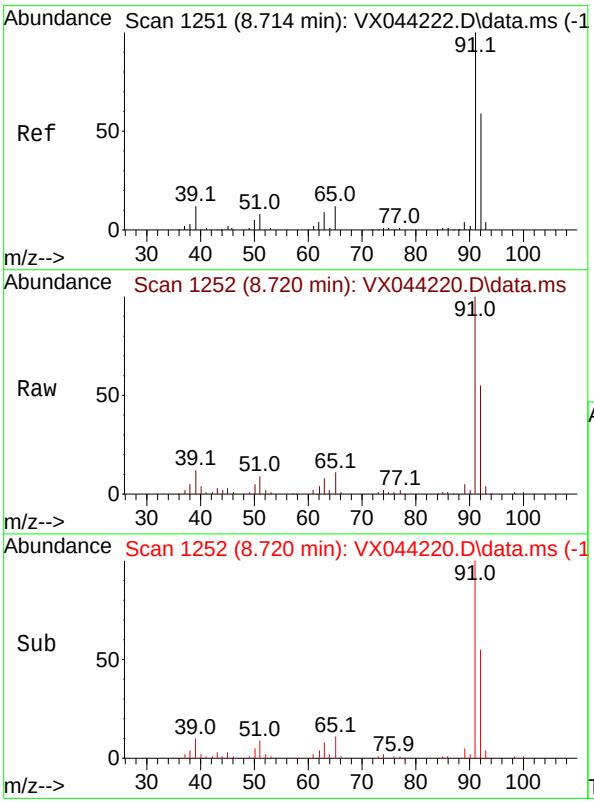
#51
4-Methyl-2-Pentanone
Concen: 24.759 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 71285

Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.4	44.0

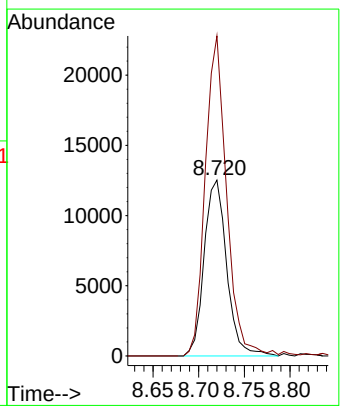


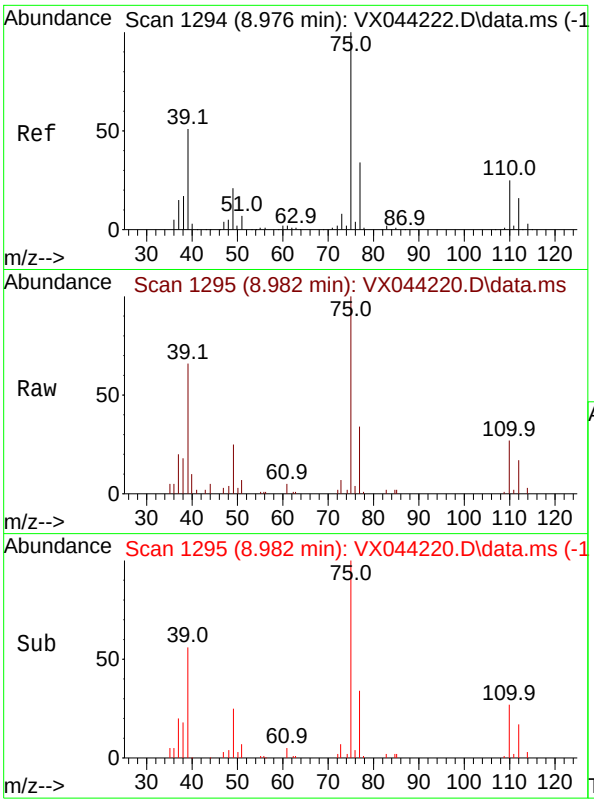


#52
Toluene
Concen: 4.862 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 92 Resp: 21486

Ion	Ratio	Lower	Upper
92	100		
91	173.0	137.0	205.6



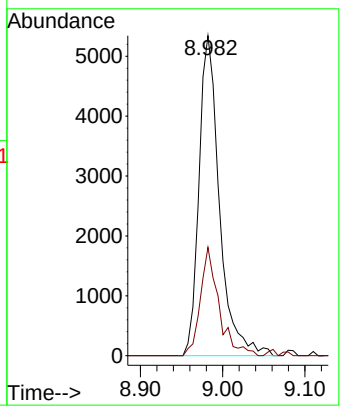


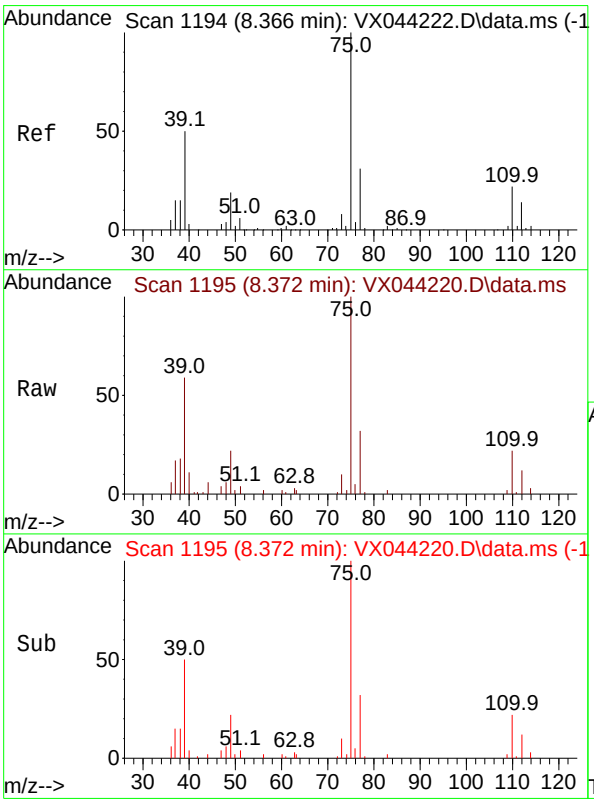
#53
t-1,3-Dichloropropene
Concen: 4.665 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 9232

Ion	Ratio	Lower	Upper
75	100		
77	33.8	27.2	40.8

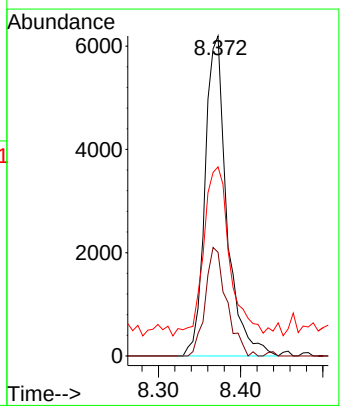


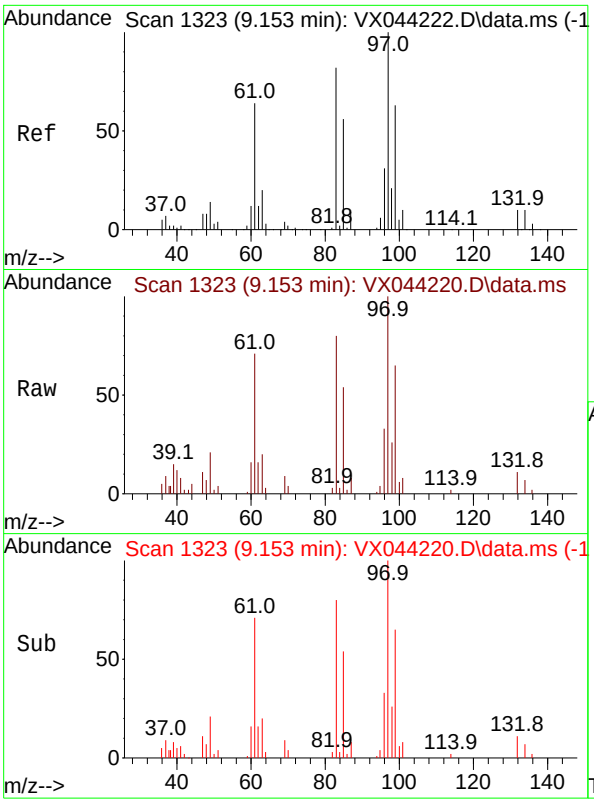


#54
cis-1,3-Dichloropropene
Concen: 4.348 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 11404

Ion	Ratio	Lower	Upper
75	100		
77	32.4	24.7	37.1
39	50.5	40.3	60.5



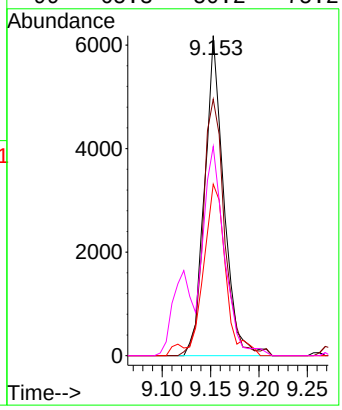


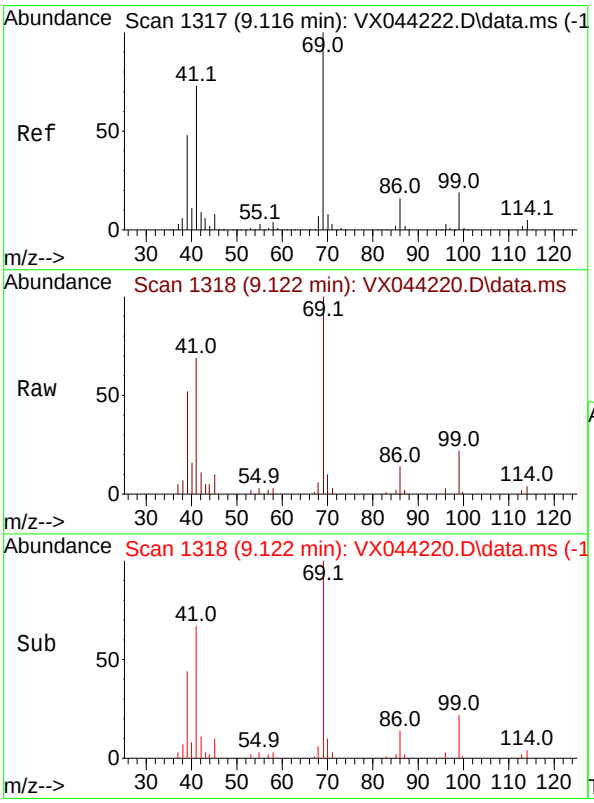
#55
1,1,2-Trichloroethane
Concen: 4.893 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 8590

Ion	Ratio	Lower	Upper
97	100		
83	80.2	65.3	97.9
85	53.6	44.6	67.0
99	65.3	50.2	75.2

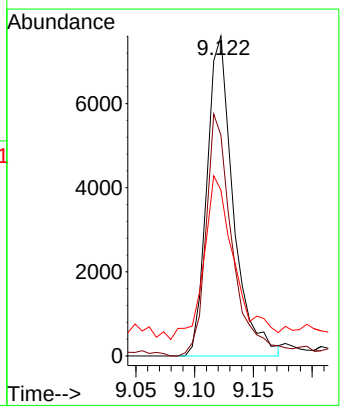


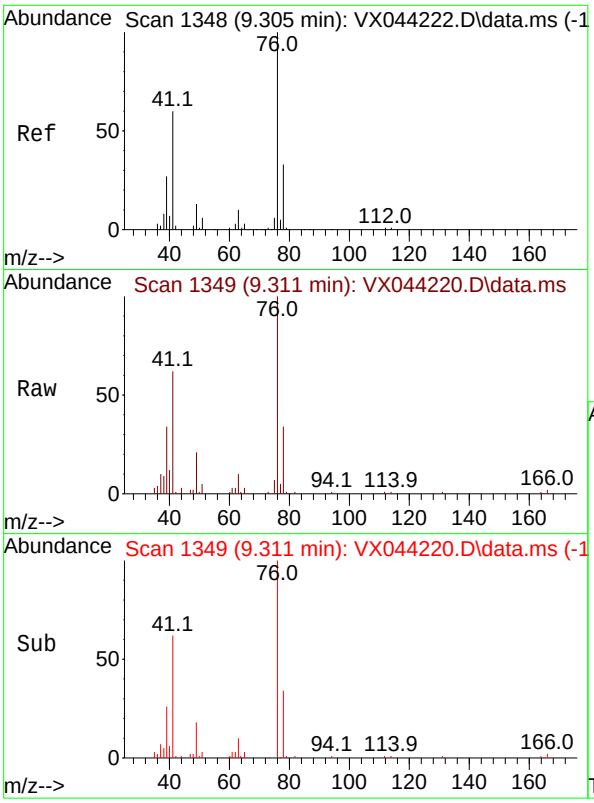


#56
Ethyl methacrylate
Concen: 4.277 ug/l
RT: 9.122 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 69 Resp: 11854

Ion	Ratio	Lower	Upper
69	100		
41	76.0	56.6	85.0
39	58.7	37.4	56.0#



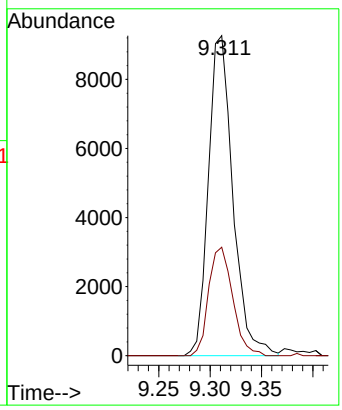


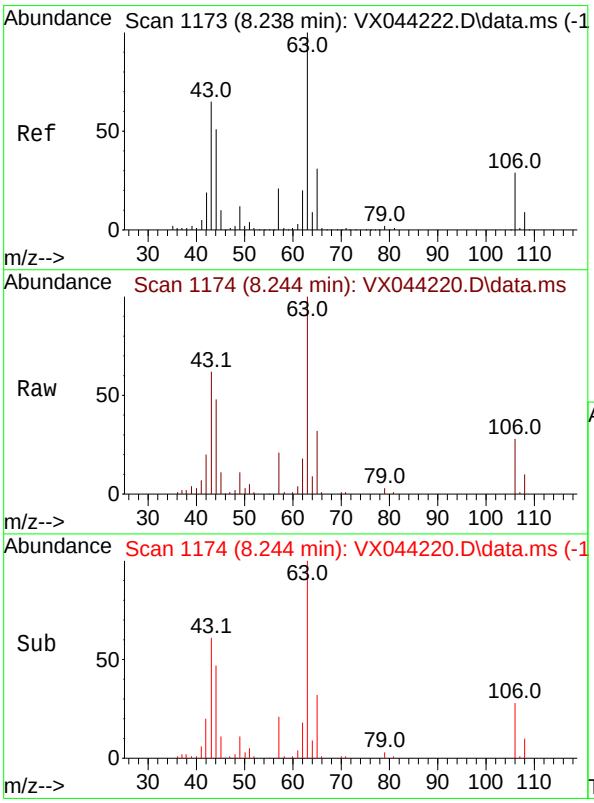
#57
1,3-Dichloropropane
Concen: 5.024 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 15352

Ion	Ratio	Lower	Upper
76	100		
78	33.3	26.5	39.7

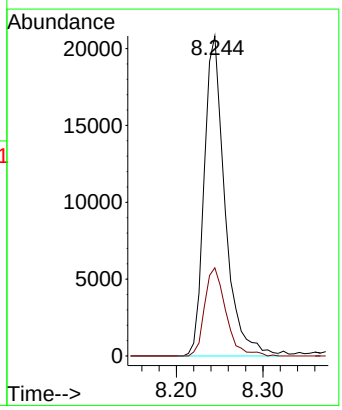


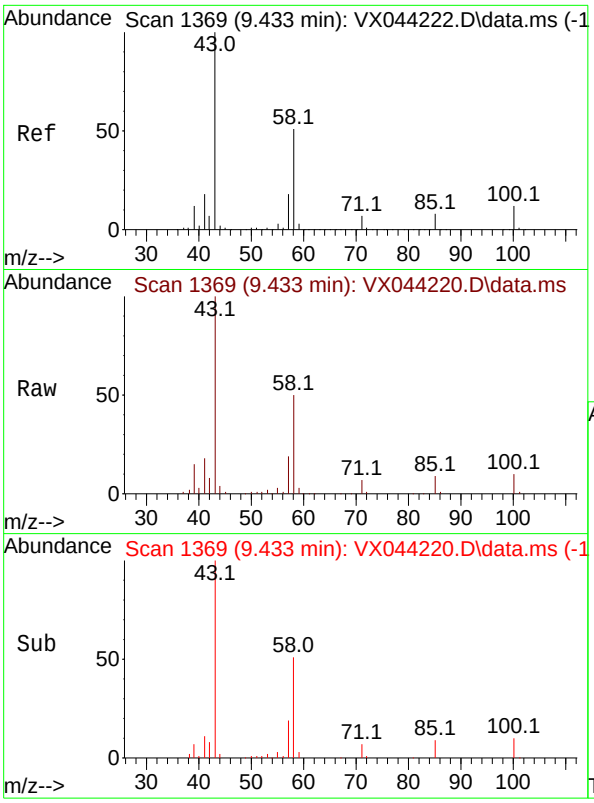


#58
2-Chloroethyl Vinyl ether
Concen: 24.852 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 63 Resp: 34738

Ion	Ratio	Lower	Upper
63	100		
106	28.1	22.8	34.2



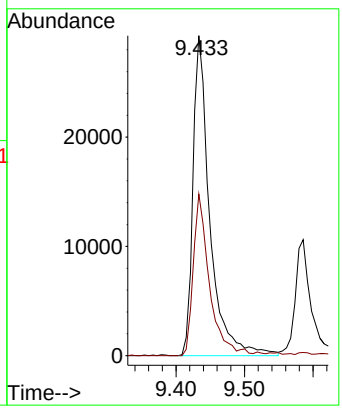


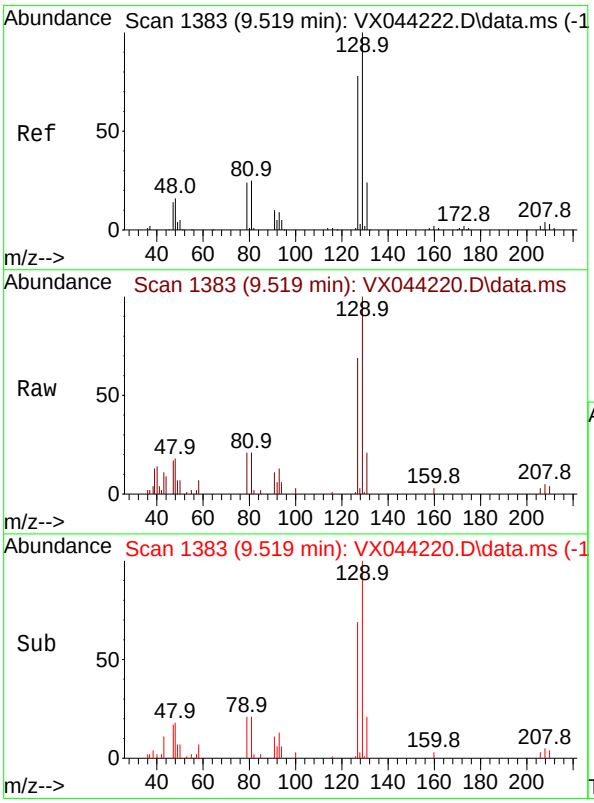
#59
2-Hexanone
Concen: 23.994 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 50003

Ion	Ratio	Lower	Upper
43	100		
58	48.6	25.7	77.0

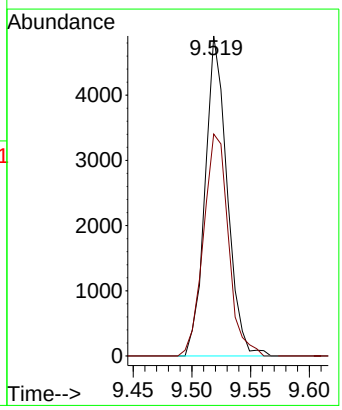


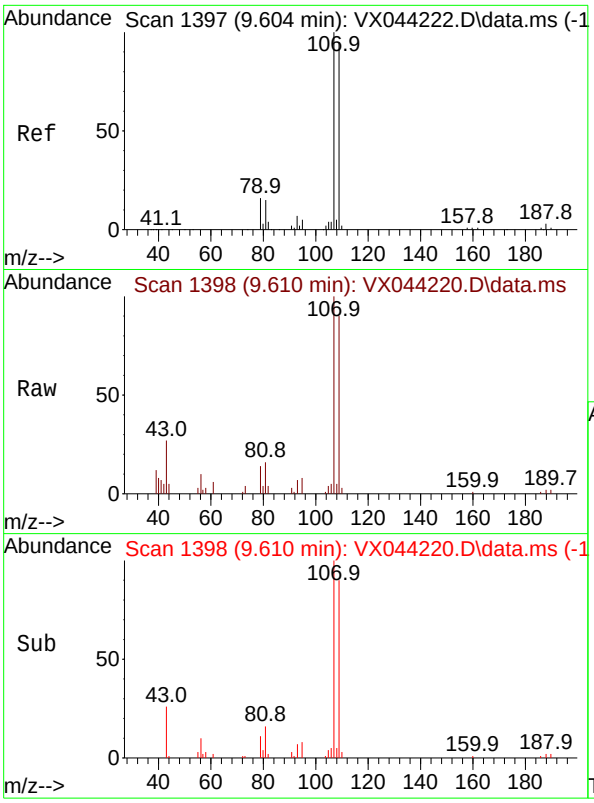


#60
Dibromochloromethane
Concen: 4.738 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:129 Resp: 6411

Ion	Ratio	Lower	Upper
129	100		
127	78.3	38.5	115.3



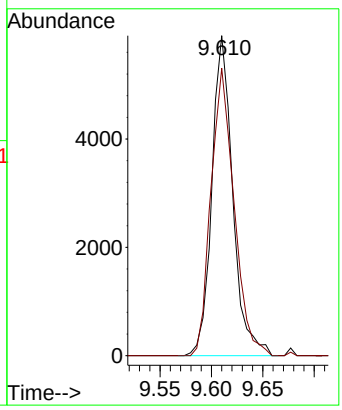


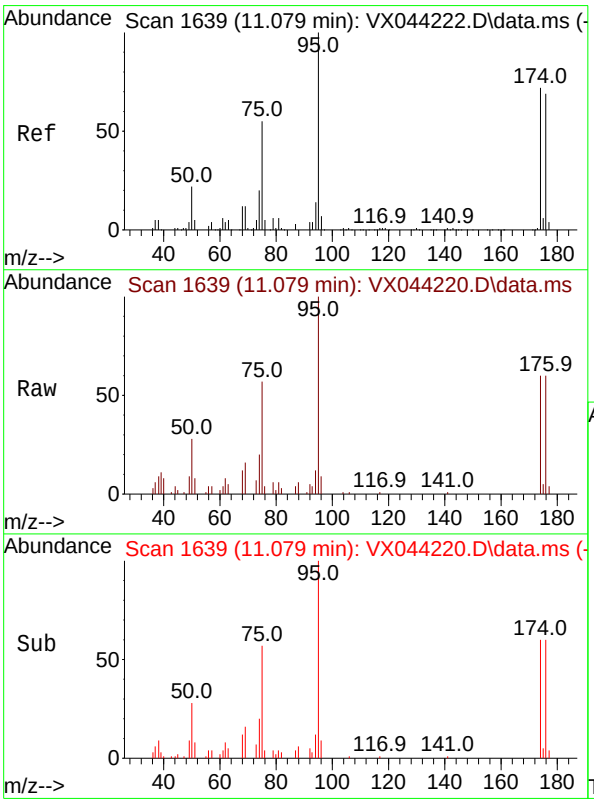
#61
1,2-Dibromoethane
Concen: 4.662 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 8330

Ion	Ratio	Lower	Upper
107	100		
109	99.5	77.0	115.4

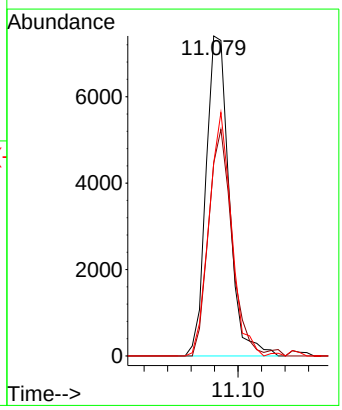


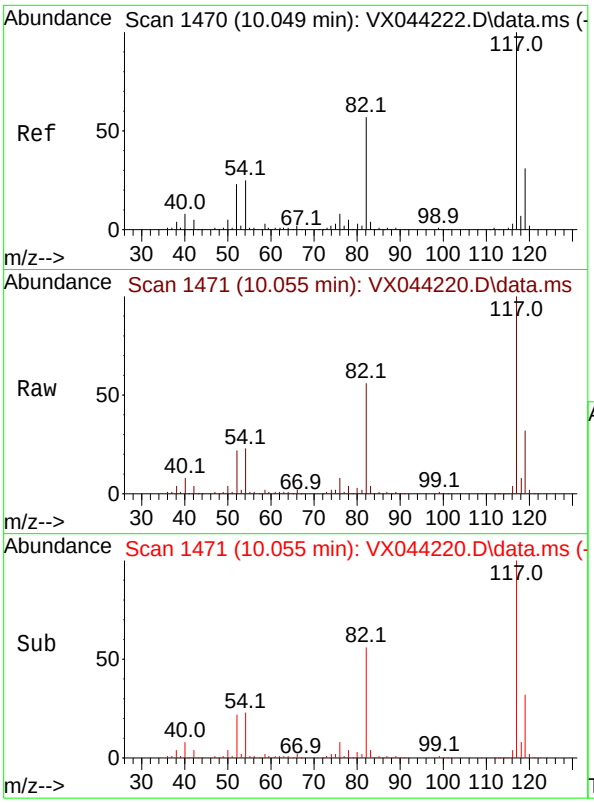


#62
4-Bromofluorobenzene
Concen: 4.779 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 95 Resp: 10101

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	145.8
176	74.4	0.0	137.8



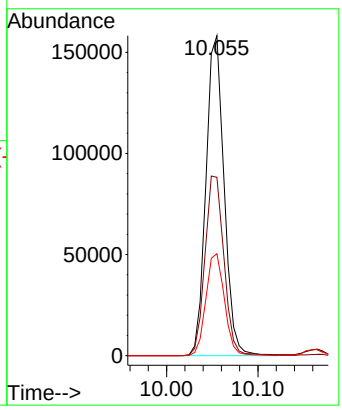


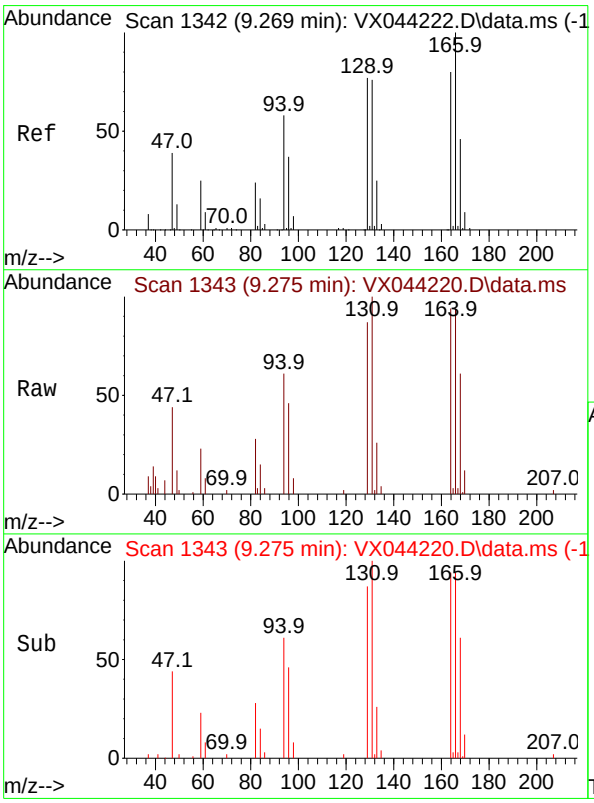
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 217783

Ion	Ratio	Lower	Upper
117	100		
82	55.8	45.8	68.8
119	31.9	25.0	37.4

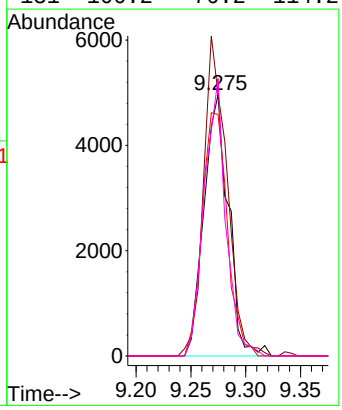


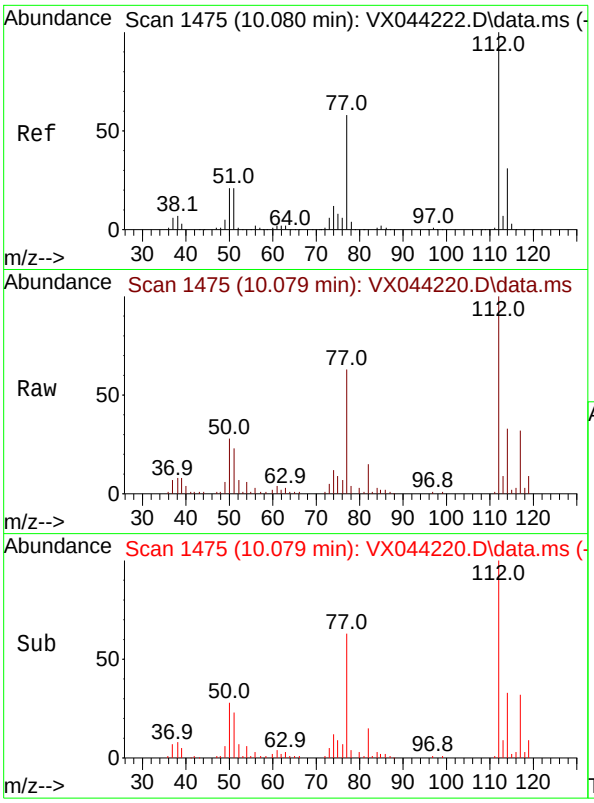


#64
Tetrachloroethene
Concen: 5.334 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:164 Resp: 7710

Ion	Ratio	Lower	Upper
164	100		
166	100.3	100.4	150.6#
129	92.5	77.2	115.8
131	106.2	76.2	114.2



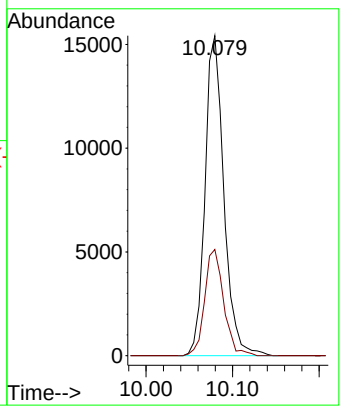


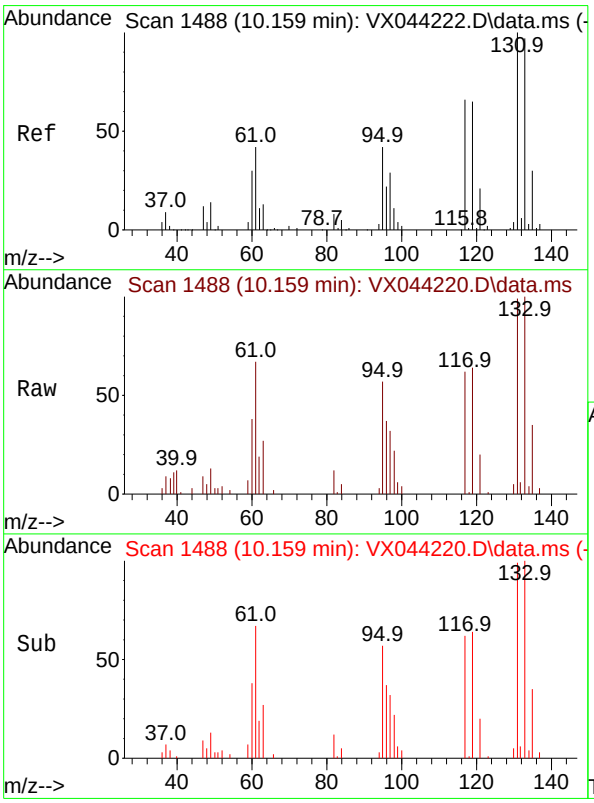
#65
Chlorobenzene
Concen: 4.986 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 23268

Ion	Ratio	Lower	Upper
112	100		
114	33.2	25.0	37.6

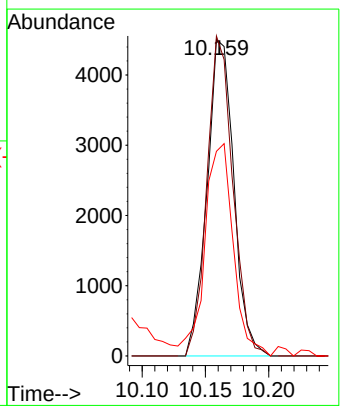


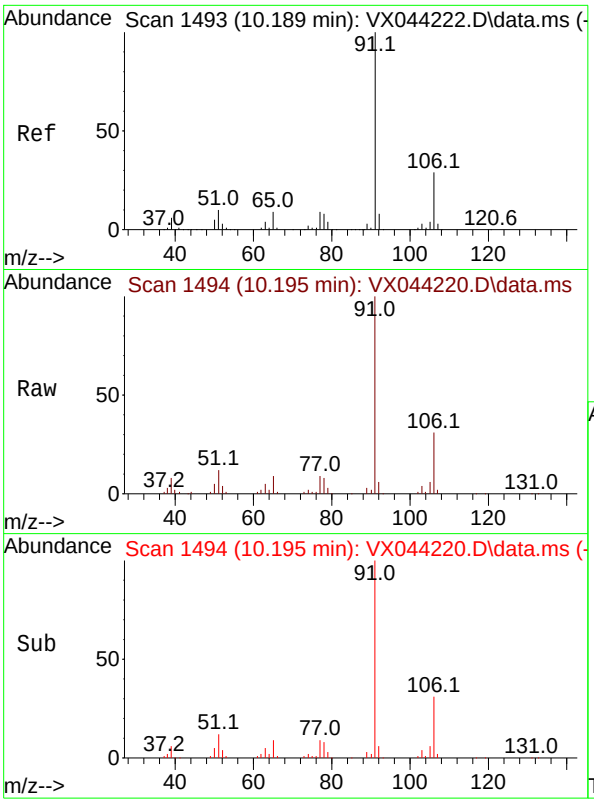


#66
1,1,1,2-Tetrachloroethane
Concen: 4.432 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:131 Resp: 6647

Ion	Ratio	Lower	Upper
131	100		
133	97.7	47.3	141.8
119	70.8	31.6	95.0



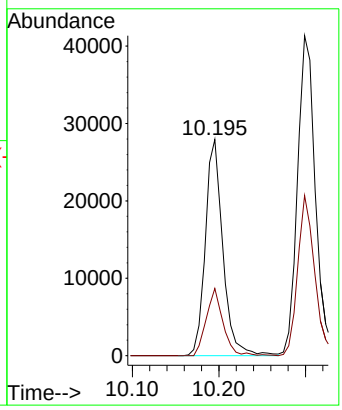


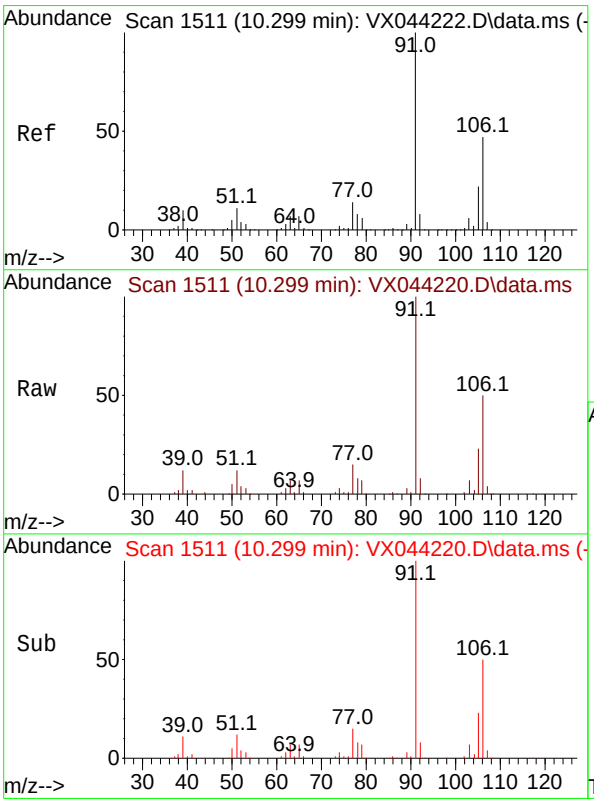
#67
Ethyl Benzene
Concen: 4.877 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 39326

Ion	Ratio	Lower	Upper
91	100		
106	31.1	23.5	35.3

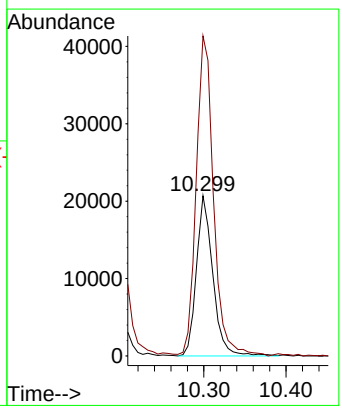


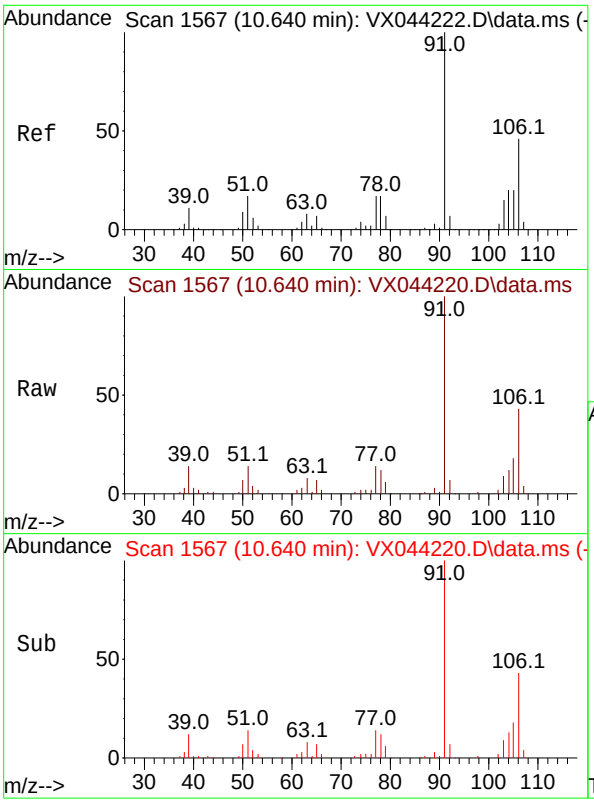


#68
m/p-Xylenes
Concen: 9.720 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:106 Resp: 28758

Ion	Ratio	Lower	Upper
106	100		
91	210.2	170.2	255.2



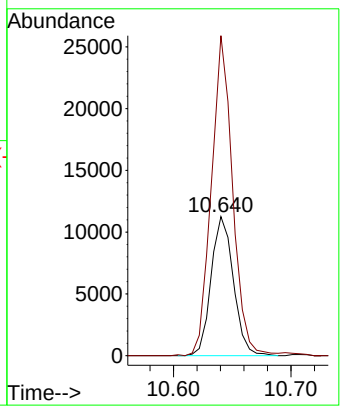


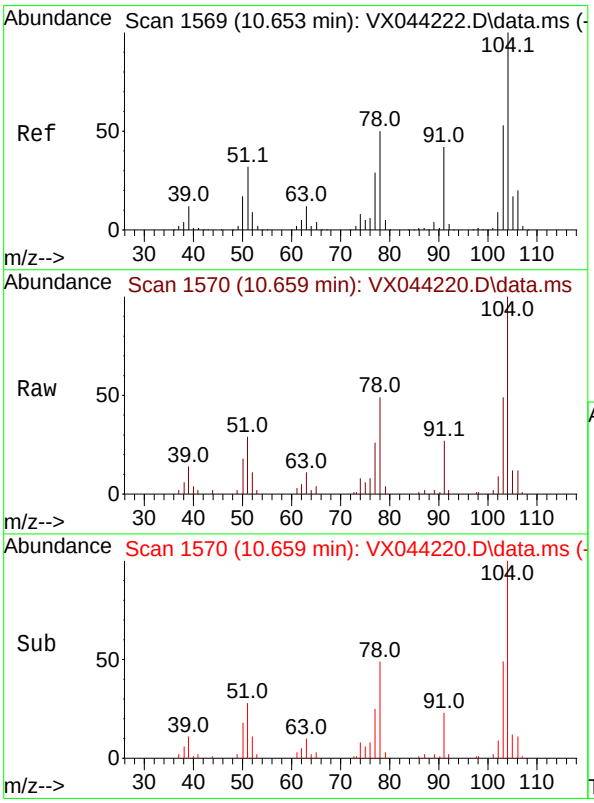
#69
o-Xylene
Concen: 4.965 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 14864

Ion	Ratio	Lower	Upper
106	100		
91	219.3	112.3	337.0

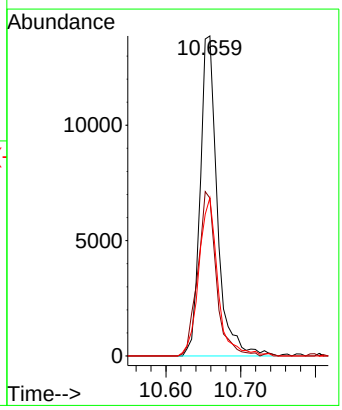


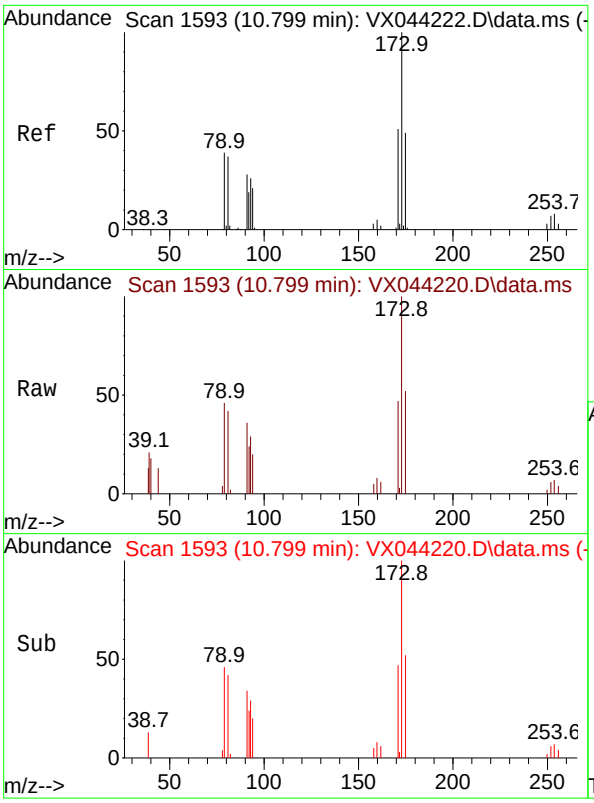


#70
Styrene
Concen: 4.624 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:104 Resp: 22191

Ion	Ratio	Lower	Upper
104	100		
78	55.5	44.6	67.0
103	54.6	45.4	68.0



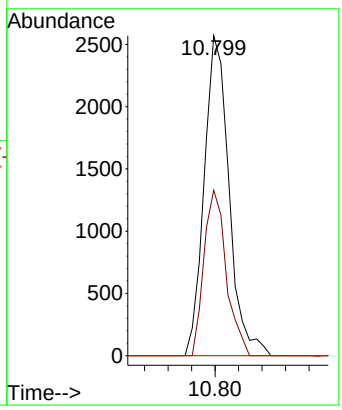


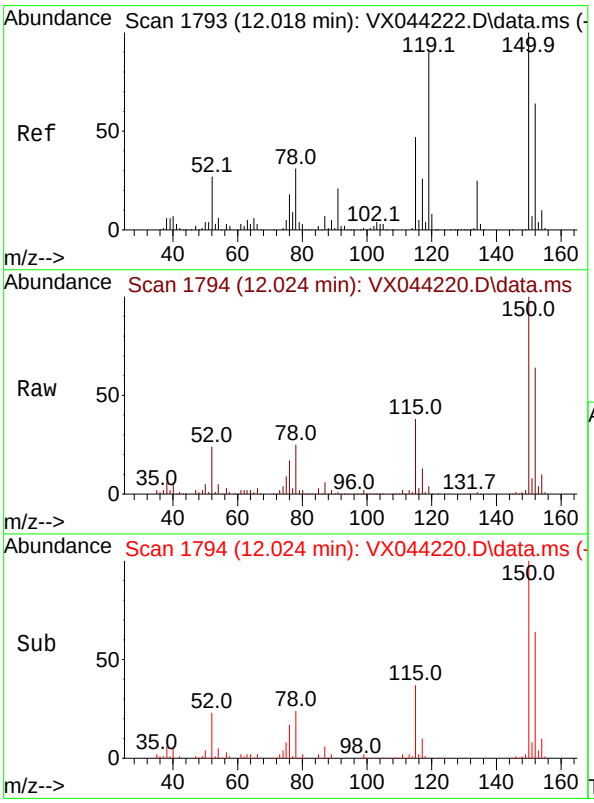
#71
Bromoform
Concen: 5.118 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 3775

Ion	Ratio	Lower	Upper
173	100		
175	46.3	23.8	71.4
254	0.0	0.0	0.0

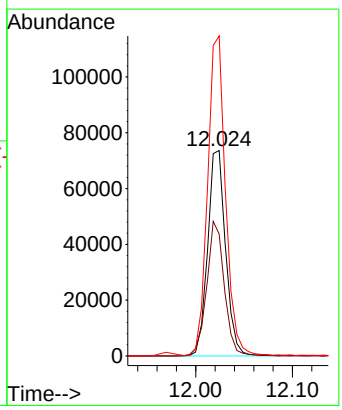


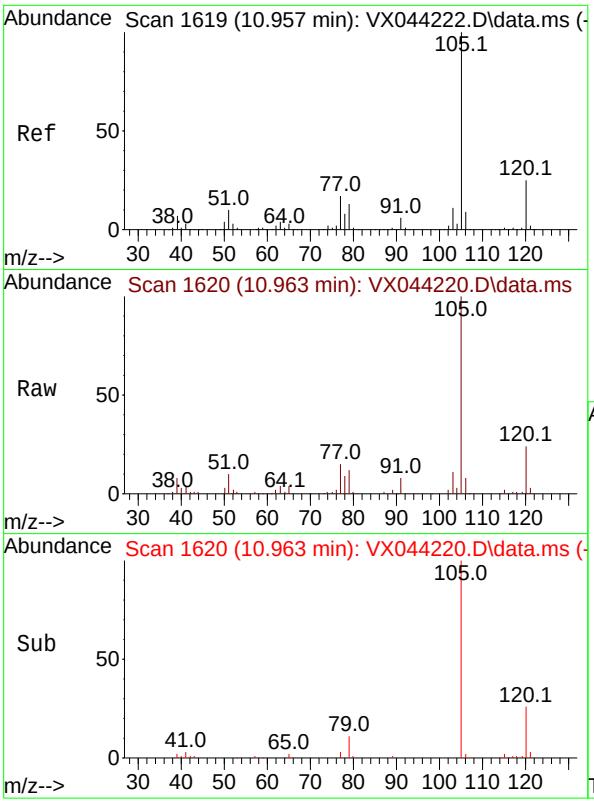


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:152 Resp: 95175

Ion	Ratio	Lower	Upper
152	100		
115	64.2	44.5	133.3
150	154.3	0.0	353.8



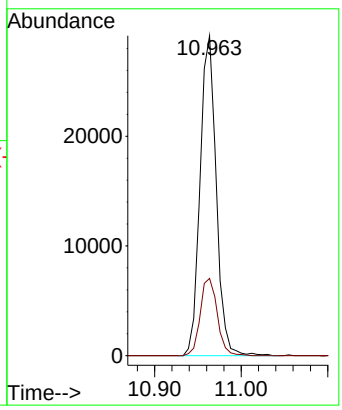


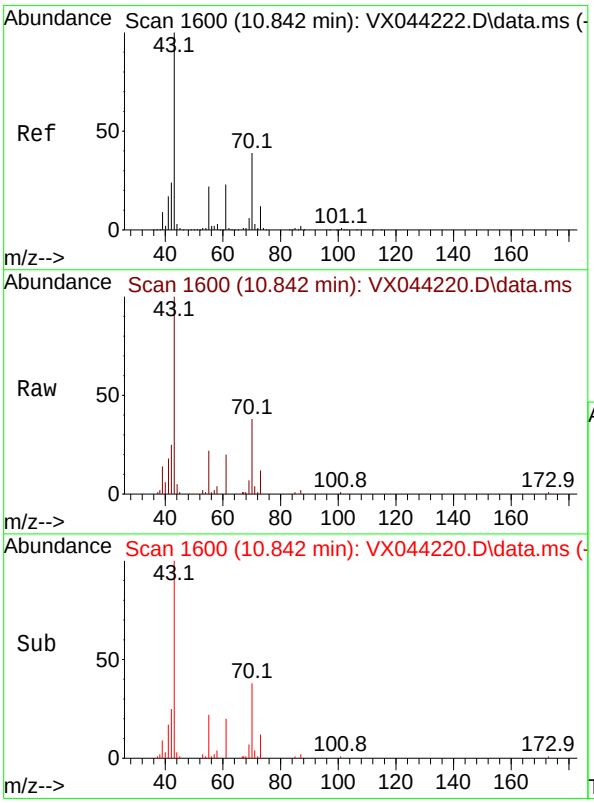
#73
Isopropylbenzene
Concen: 5.194 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 37843

Ion	Ratio	Lower	Upper
105	100		
120	25.4	13.1	39.3

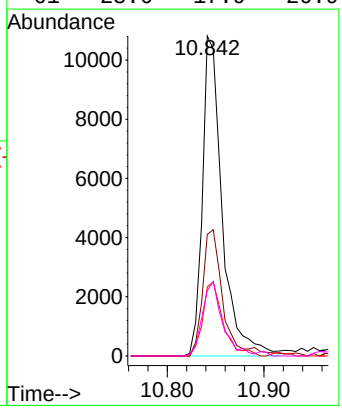


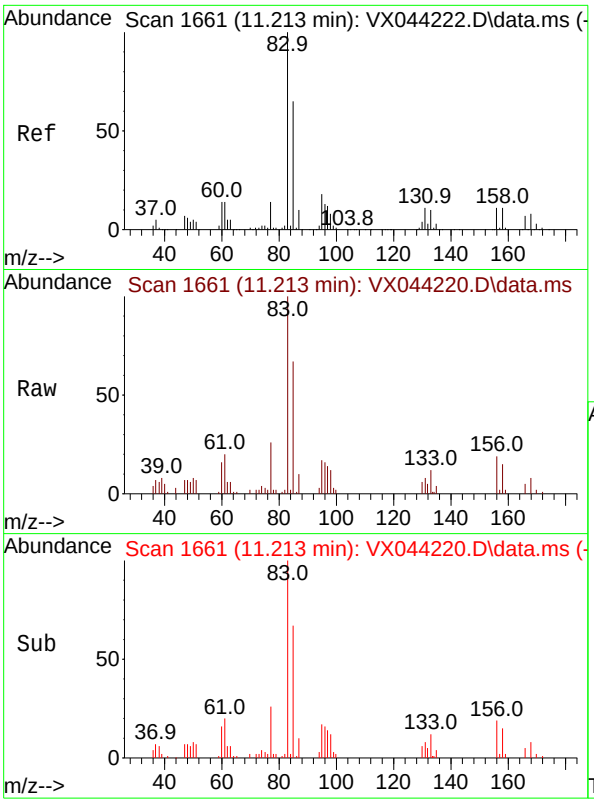


#74
N-amyl acetate
Concen: 4.579 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 15418

Ion	Ratio	Lower	Upper
43	100		
70	41.2	31.9	47.9
55	23.7	17.9	26.9
61	23.6	17.9	26.9



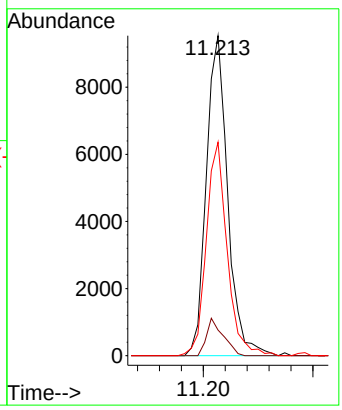


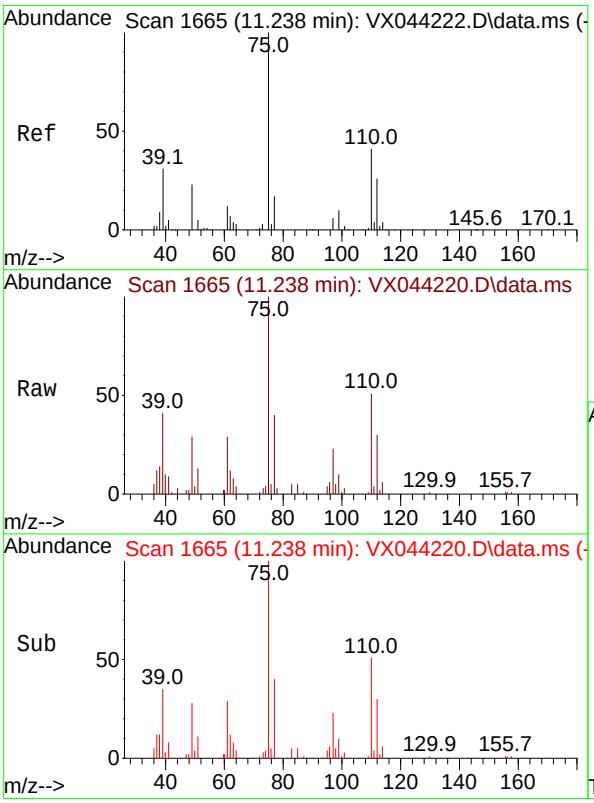
#75
1,1,2,2-Tetrachloroethane
Concen: 5.077 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 12848

Ion	Ratio	Lower	Upper
83	100		
131	9.1	5.1	15.4
85	65.3	32.5	97.4

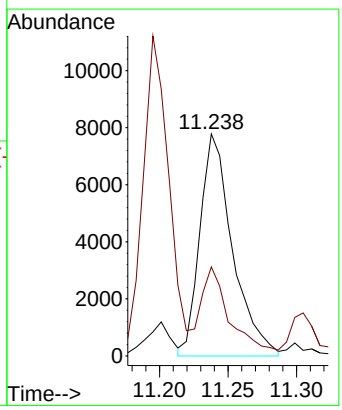


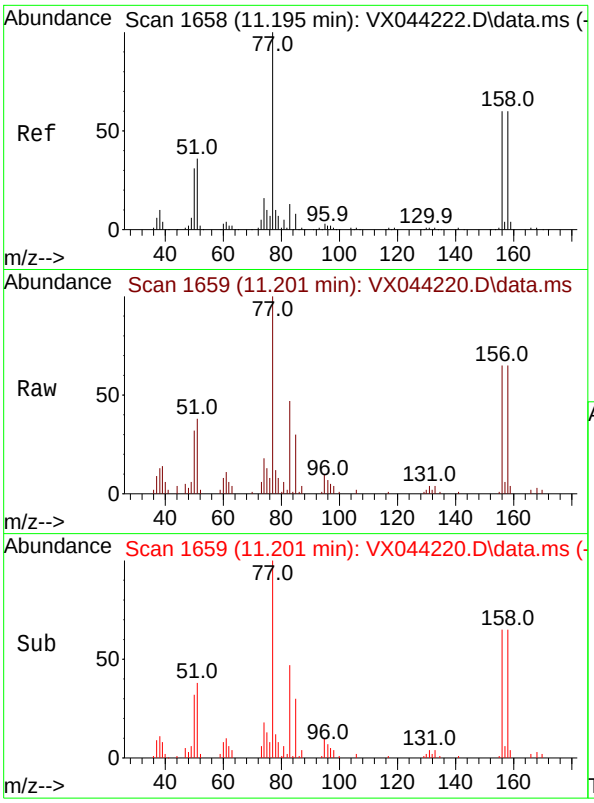


#76
1,2,3-Trichloropropane
Concen: 5.974 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 12901

Ion	Ratio	Lower	Upper
75	100		
77	36.0	20.9	62.7



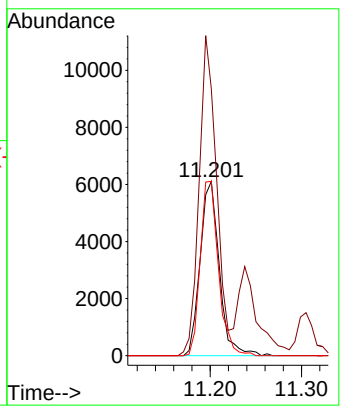


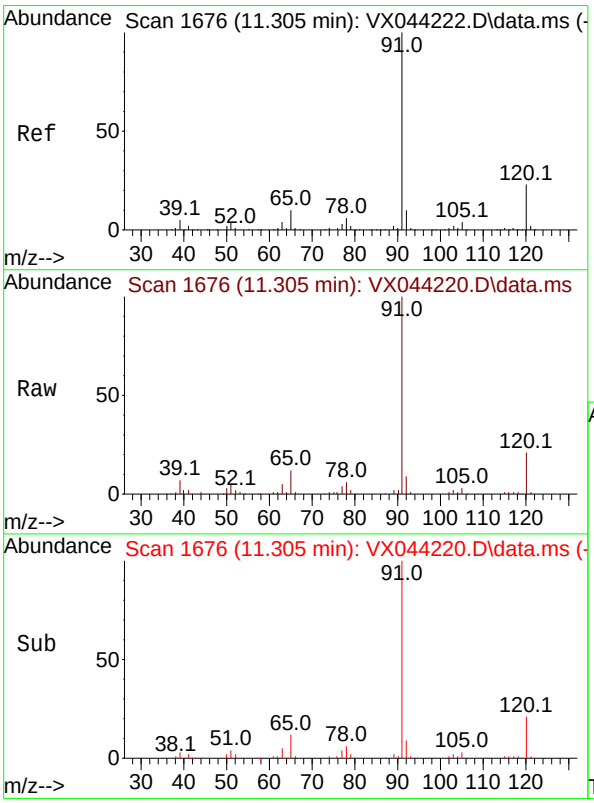
#77
Bromobenzene
Concen: 5.033 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 8892

Ion	Ratio	Lower	Upper
156	100		
77	165.4	82.6	247.8
158	94.7	48.8	146.4

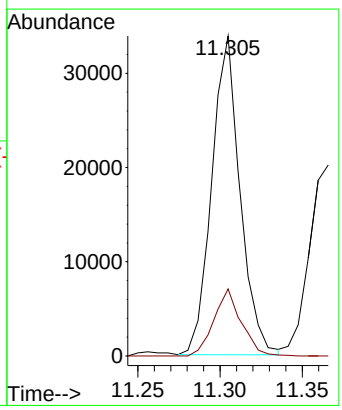


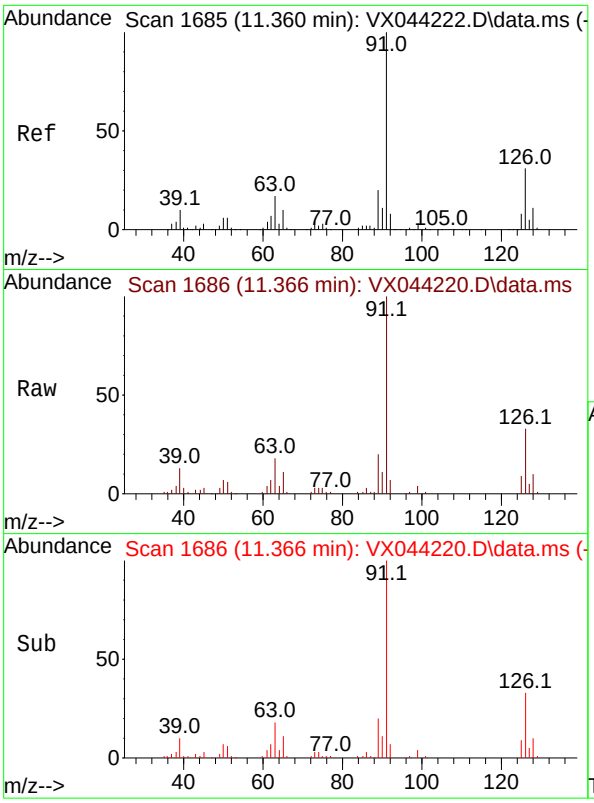


#78
n-propylbenzene
Concen: 5.038 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 40574

Ion	Ratio	Lower	Upper
91	100		
120	20.3	11.0	33.0



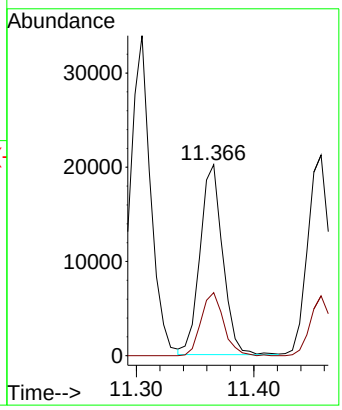


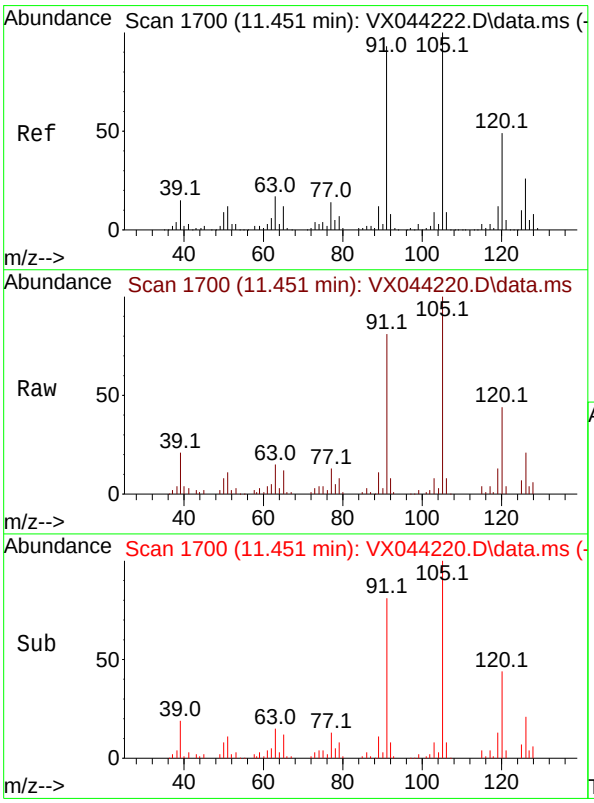
#79
2-Chlorotoluene
Concen: 5.203 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 27096

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.1

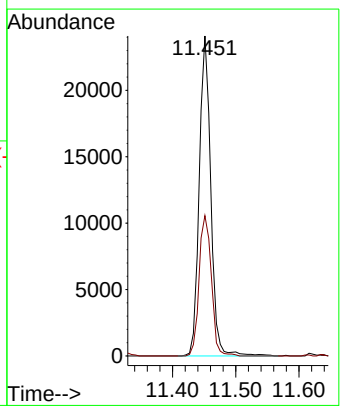


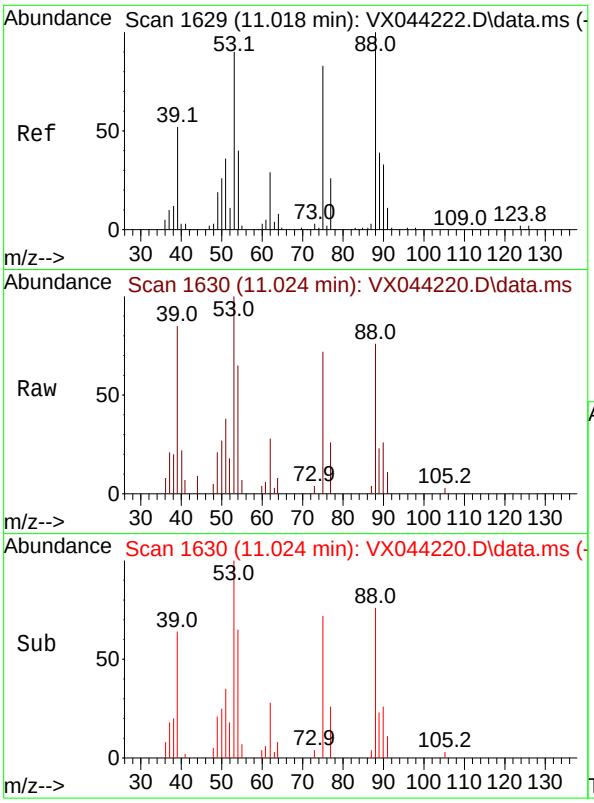


#80
1,3,5-Trimethylbenzene
Concen: 5.075 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:105 Resp: 30665

Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.8	71.4



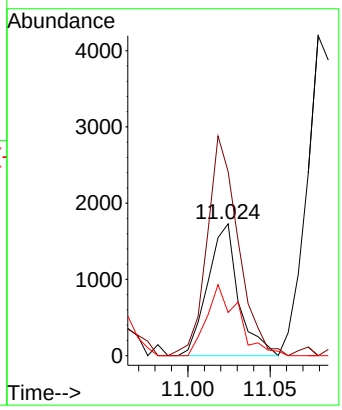


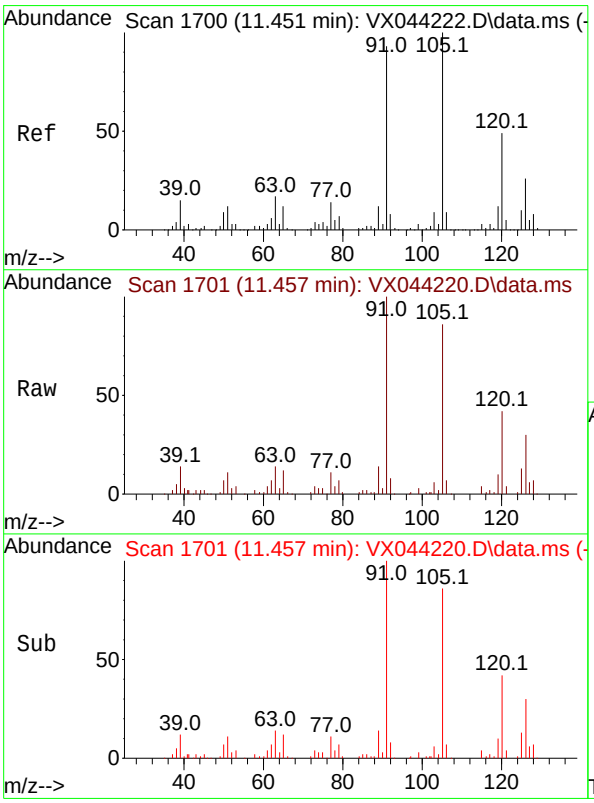
#81
trans-1,4-Dichloro-2-butene
Concen: 8.273 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 2249

Ion	Ratio	Lower	Upper
75	100		
53	168.9	93.6	140.4#
89	55.5	37.3	55.9

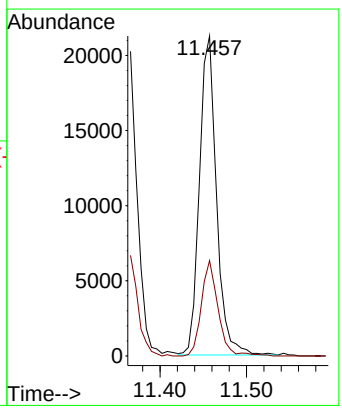


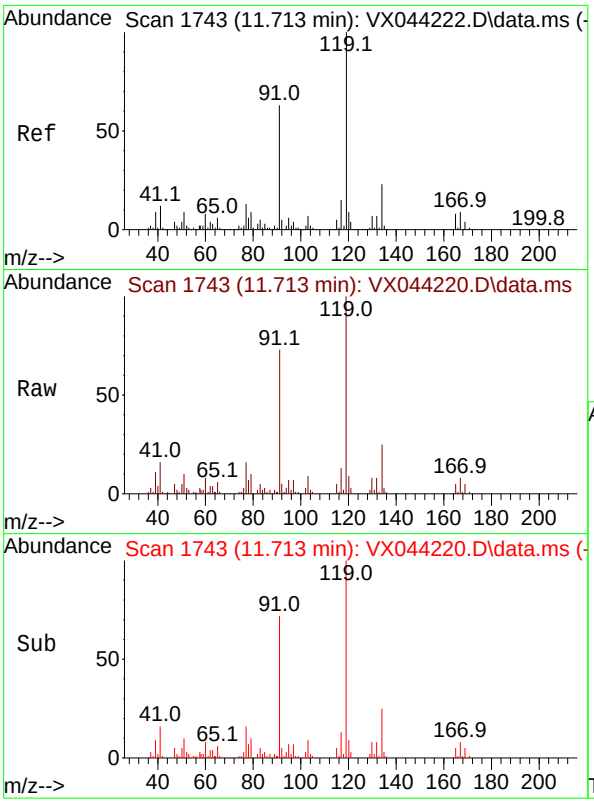


#82
4-Chlorotoluene
Concen: 5.035 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 29039

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.5	43.5



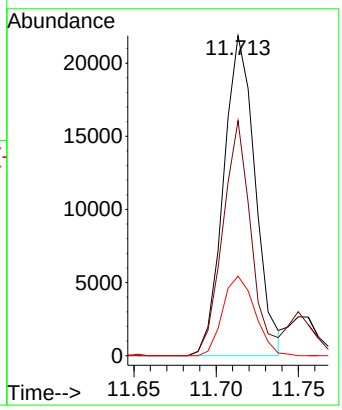


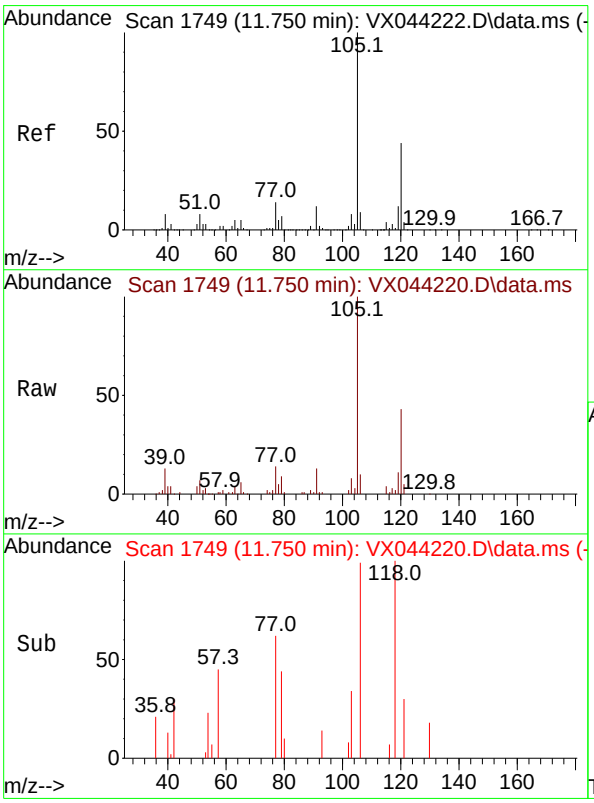
#83
tert-Butylbenzene
Concen: 4.904 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 29283

Ion	Ratio	Lower	Upper
119	100		
91	65.9	30.9	92.5
134	25.3	11.5	34.4

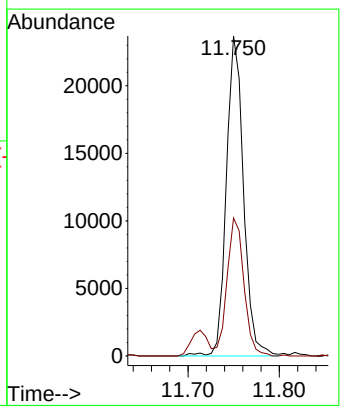


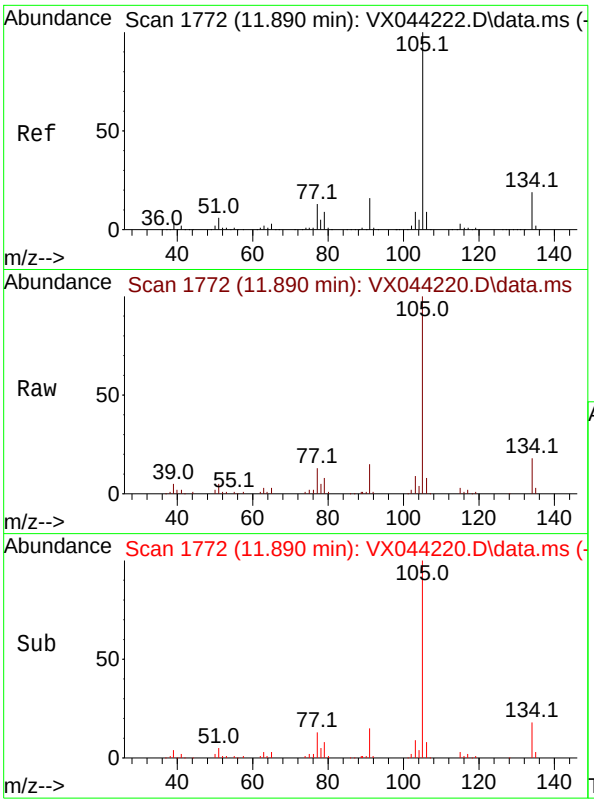


#84
1,2,4-Trimethylbenzene
Concen: 5.219 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:105 Resp: 30970

Ion	Ratio	Lower	Upper
105	100		
120	42.6	21.7	65.1



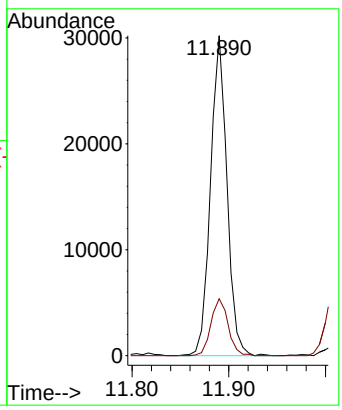


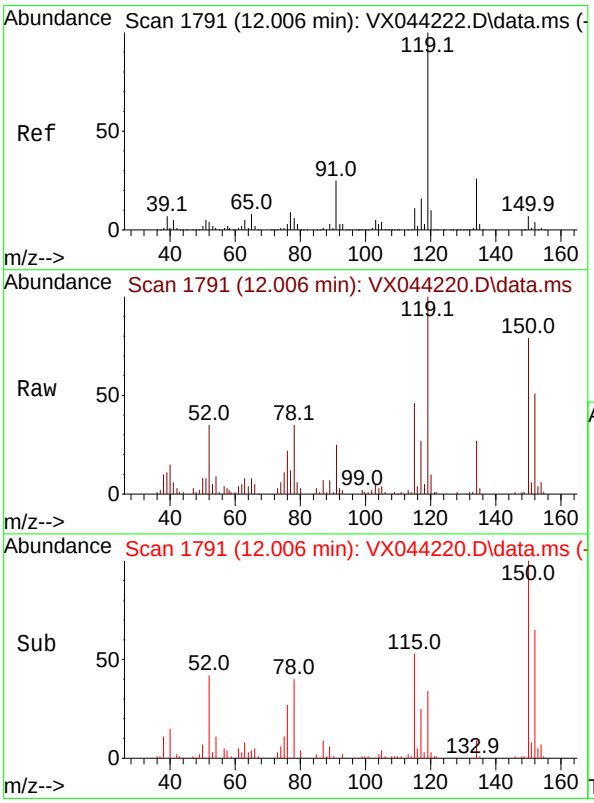
#85
sec-Butylbenzene
Concen: 4.921 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 35670

Ion	Ratio	Lower	Upper
105	100		
134	18.6	9.8	29.4

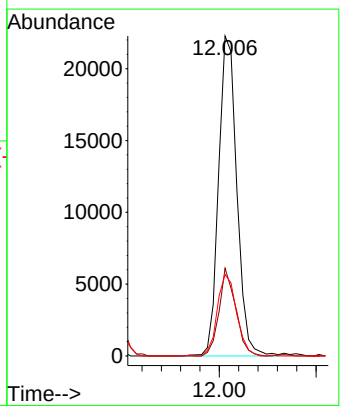


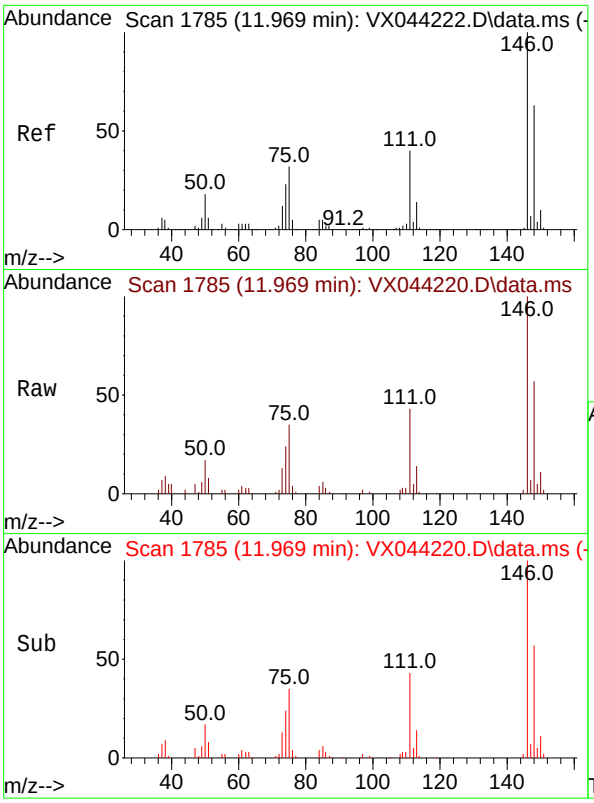


#86
p-Isopropyltoluene
Concen: 4.828 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:119 Resp: 29132

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.8	38.4
91	26.9	13.0	39.0



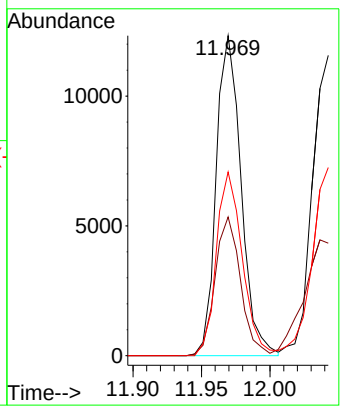


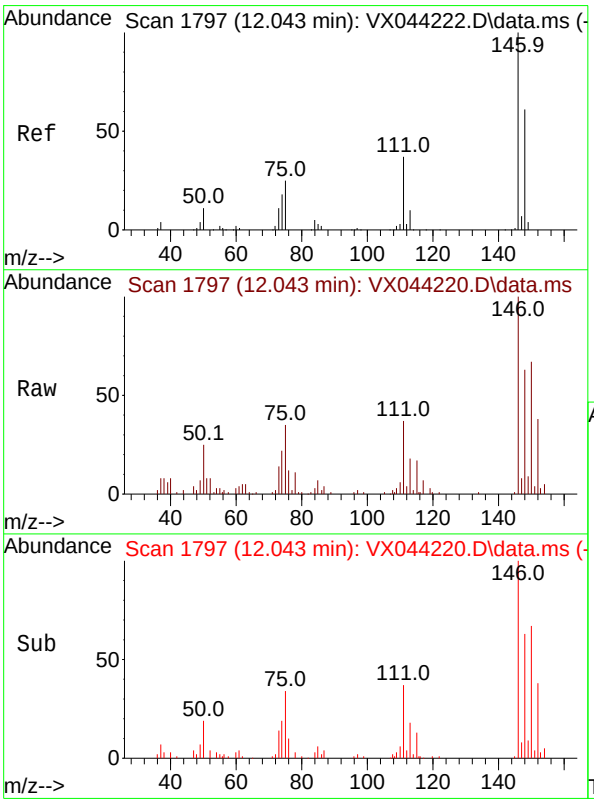
#87
1,3-Dichlorobenzene
Concen: 5.039 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 15553

Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.4	64.2
148	60.1	31.7	95.1

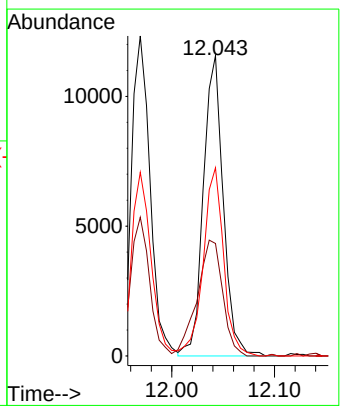


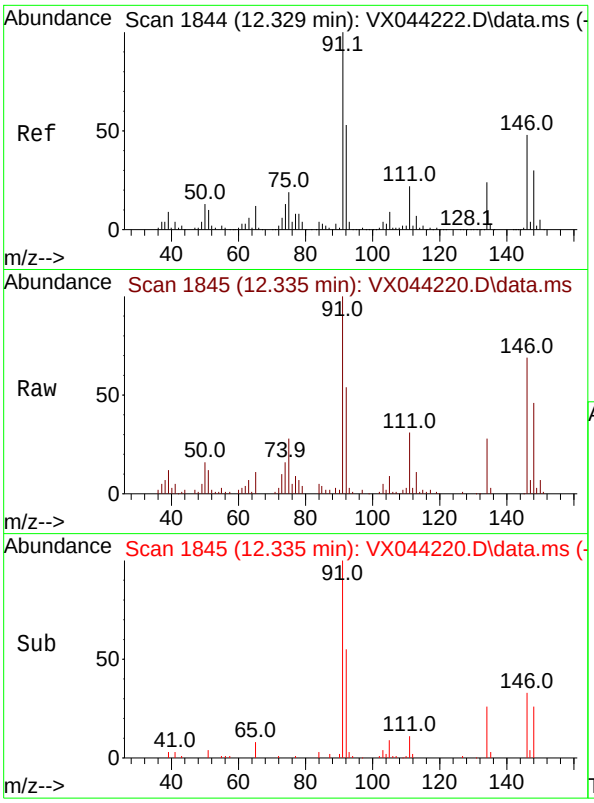


#88
1,4-Dichlorobenzene
Concen: 4.920 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:146 Resp: 15609

Ion	Ratio	Lower	Upper
146	100		
111	49.5	21.0	63.0
148	64.1	32.3	96.8



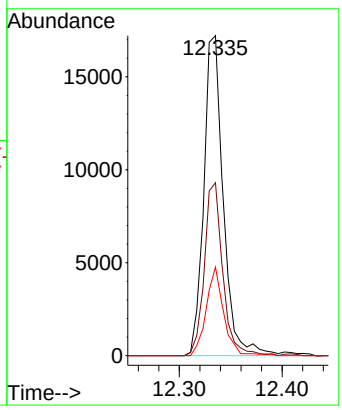


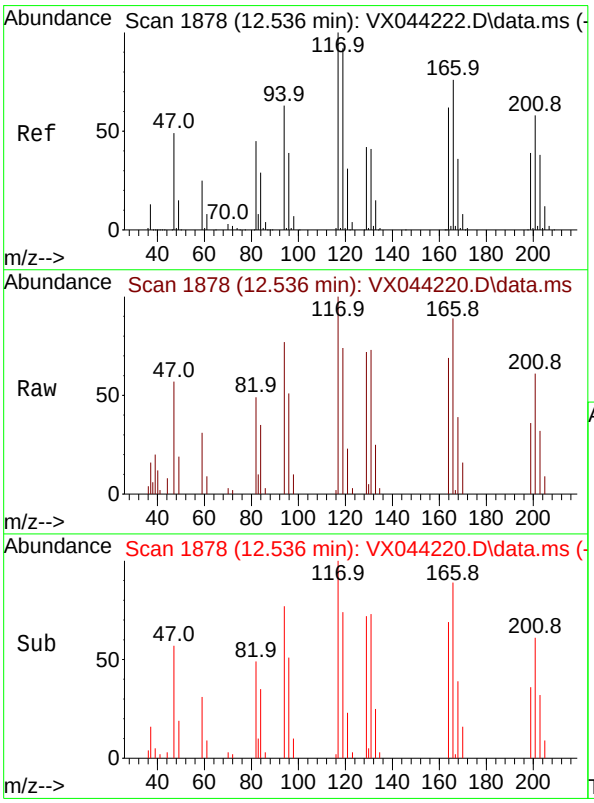
#89
n-Butylbenzene
Concen: 4.478 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 22719

Ion	Ratio	Lower	Upper
91	100		
92	51.1	26.6	79.7
134	24.9	12.6	37.8

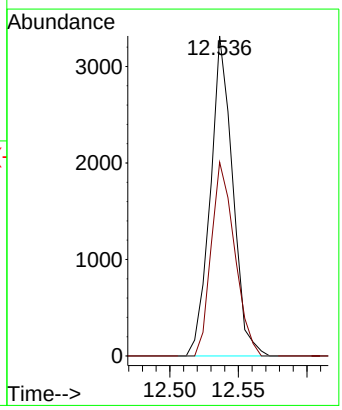


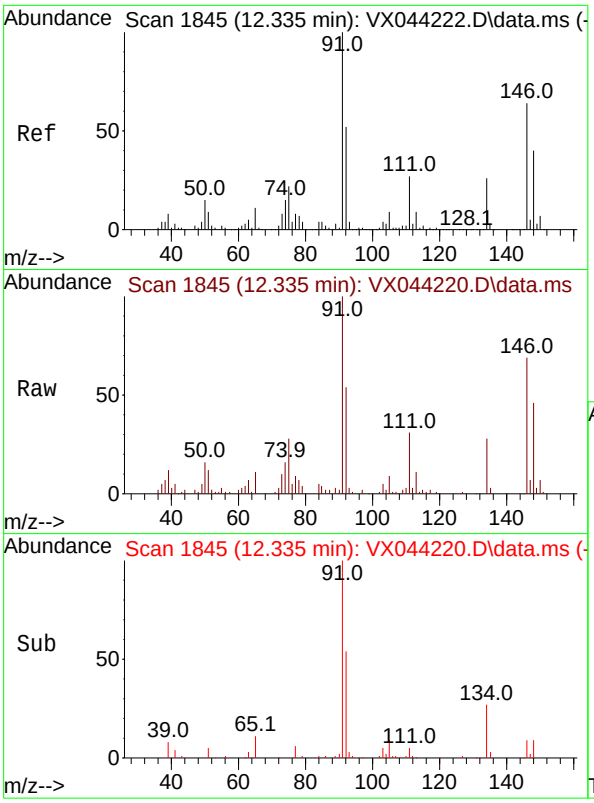


#90
Hexachloroethane
Concen: 4.275 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:117 Resp: 3765

Ion	Ratio	Lower	Upper
117	100		
201	63.5	31.4	94.2



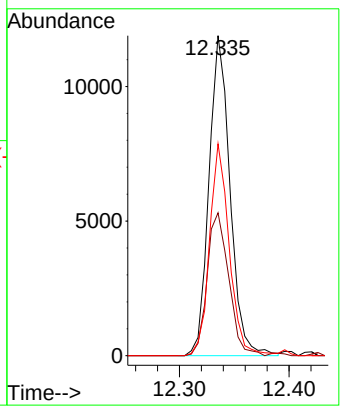


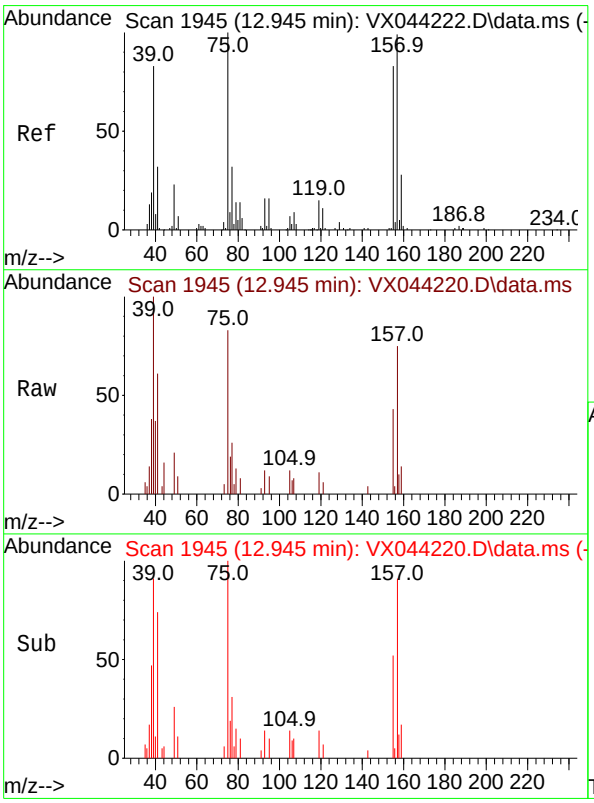
#91
1,2-Dichlorobenzene
Concen: 4.949 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 15858

Ion	Ratio	Lower	Upper
146	100		
111	45.8	21.4	64.3
148	62.1	31.6	95.0

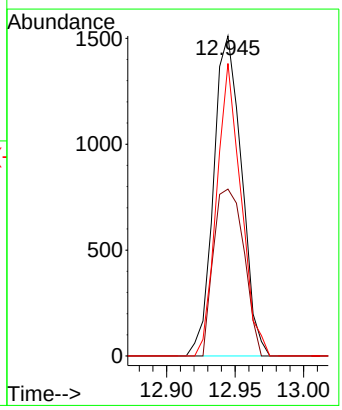


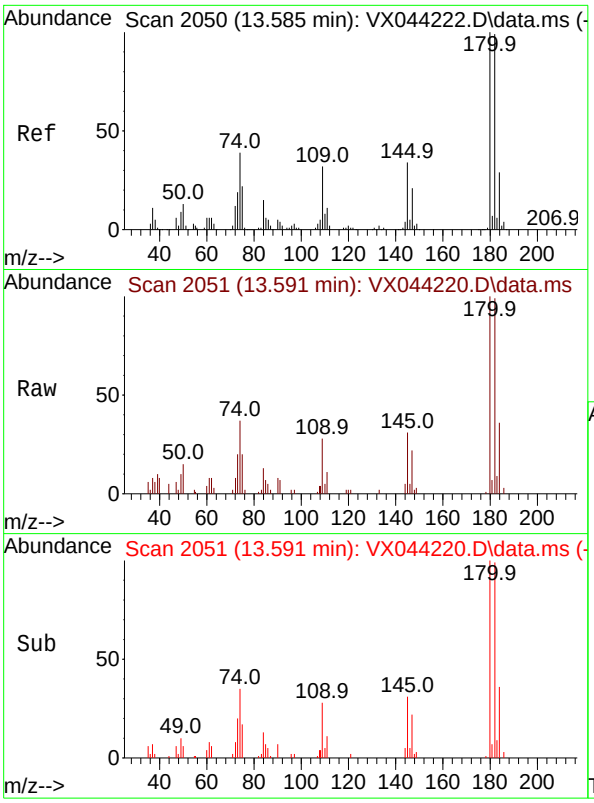


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.385 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 2154

Ion	Ratio	Lower	Upper
75	100		
155	56.5	38.1	114.3
157	79.4	47.2	141.6



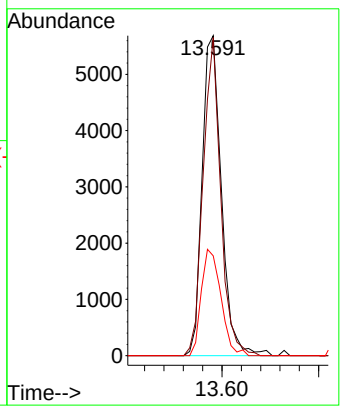


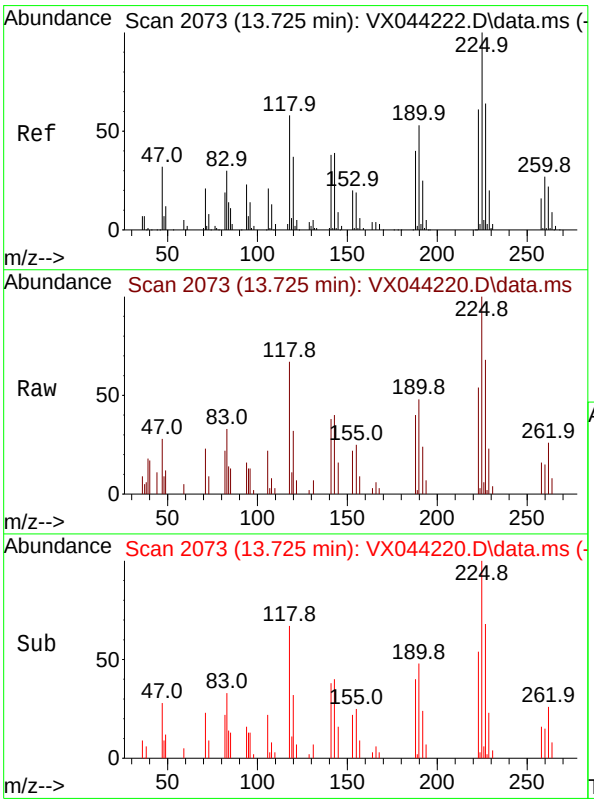
#93
1,2,4-Trichlorobenzene
Concen: 4.478 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 7867

Ion	Ratio	Lower	Upper
180	100		
182	90.8	48.0	144.2
145	33.9	16.6	49.7

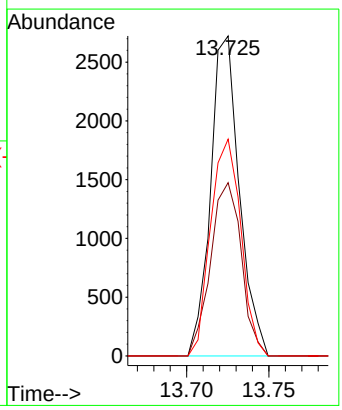


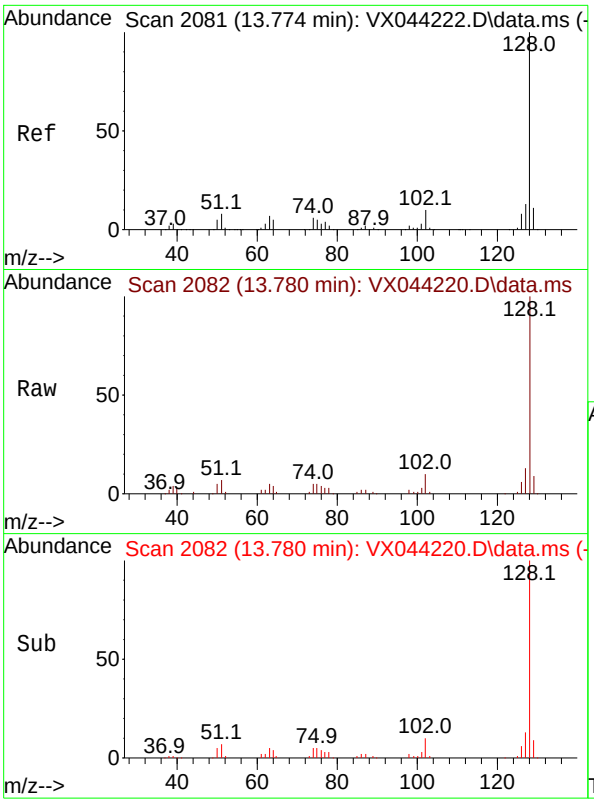


#94
Hexachlorobutadiene
Concen: 4.700 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:225 Resp: 3321

Ion	Ratio	Lower	Upper
225	100		
223	57.9	30.8	92.4
227	71.2	32.1	96.3



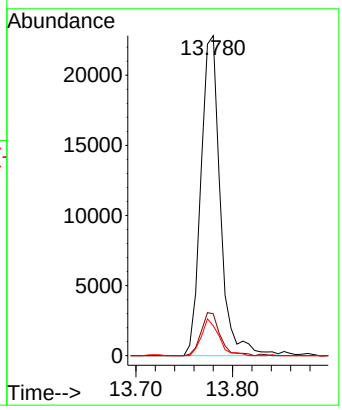


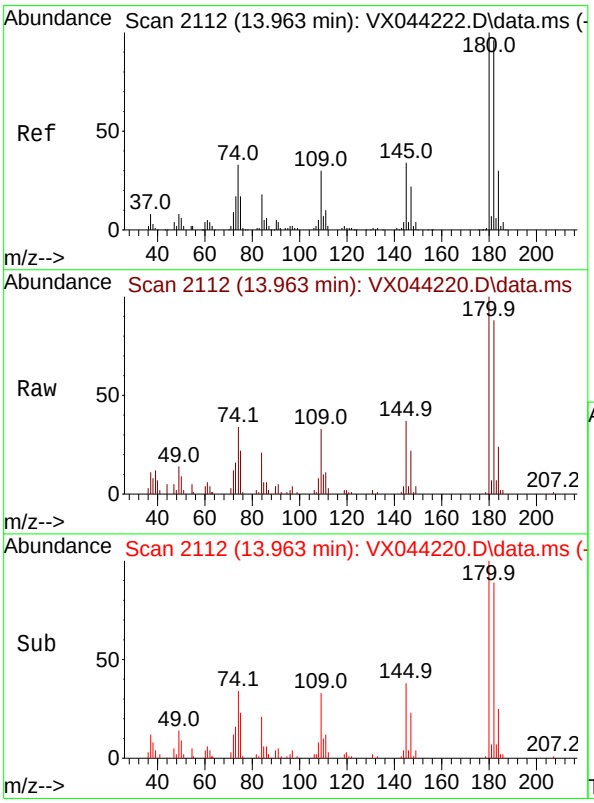
#95
Naphthalene
Concen: 4.643 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 31842

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	10.3	9.0	13.4

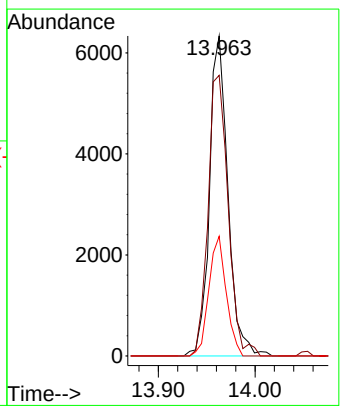




#96
1,2,3-Trichlorobenzene
Concen: 4.520 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:180 Resp: 8422

Ion	Ratio	Lower	Upper
180	100		
182	95.3	48.0	144.0
145	35.2	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	134436	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	254199	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	218148	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	98180	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	41821	17.743	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	35.480%#		
35) Dibromofluoromethane	5.391	113	30304	17.213	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	34.420%#		
50) Toluene-d8	8.647	98	102660	17.284	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	34.560%#		
62) 4-Bromofluorobenzene	11.079	95	35645	17.175	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	34.340%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	38748	18.640	ug/l	90
3) Chloromethane	1.294	50	39546	19.894	ug/l	100
4) Vinyl Chloride	1.374	62	42048	20.304	ug/l	97
5) Bromomethane	1.593	94	27604	18.789	ug/l	94
6) Chloroethane	1.666	64	27673	21.460	ug/l	94
7) Trichlorofluoromethane	1.867	101	81398	20.077	ug/l	99
8) Diethyl Ether	2.136	74	25884	18.704	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	31846	19.412	ug/l	99
10) Methyl Iodide	2.441	142	42786	19.788	ug/l	99
11) Tert butyl alcohol	3.001	59	32189	97.050	ug/l	99
12) 1,1-Dichloroethene	2.306	96	29241	19.405	ug/l	92
13) Acrolein	2.239	56	43909	91.311	ug/l	97
14) Allyl chloride	2.654	41	47218	18.813	ug/l	98
15) Acrylonitrile	3.068	53	89249	96.988	ug/l	99
16) Acetone	2.392	43	88985	92.601	ug/l	95
17) Carbon Disulfide	2.502	76	50399	17.595	ug/l	98
18) Methyl Acetate	2.709	43	47509	19.175	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	114371	19.450	ug/l	100
20) Methylene Chloride	2.782	84	35820	19.846	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	31036	19.380	ug/l	97
22) Diisopropyl ether	3.764	45	112511	19.907	ug/l	94
23) Vinyl Acetate	3.721	43	465716	101.354	ug/l	100
24) 1,1-Dichloroethane	3.605	63	62059	19.699	ug/l	98
25) 2-Butanone	4.568	43	136992	100.277	ug/l	99
26) 2,2-Dichloropropane	4.471	77	51431	20.095	ug/l #	74
27) cis-1,2-Dichloroethene	4.477	96	39161	19.254	ug/l	99
28) Bromochloromethane	4.891	49	30977	20.052	ug/l	95
29) Tetrahydrofuran	5.013	42	86235	98.343	ug/l	99
30) Chloroform	5.093	83	68410	19.327	ug/l	97
31) Cyclohexane	5.458	56	51773	20.351	ug/l	93
32) 1,1,1-Trichloroethane	5.373	97	57900	19.706	ug/l	99
36) 1,1-Dichloropropene	5.690	75	42878	18.841	ug/l	99
37) Ethyl Acetate	4.727	43	56019	19.913	ug/l	99
38) Carbon Tetrachloride	5.672	117	43901	17.918	ug/l	92
39) Methylcyclohexane	7.379	83	53536	19.678	ug/l	97
40) Benzene	6.031	78	135467	19.606	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	28523	19.095	ug/l		94
42) 1,2-Dichloroethane	6.086	62	55377	19.456	ug/l		98
43) Isopropyl Acetate	6.342	43	84866	19.301	ug/l		100
44) Trichloroethene	7.123	130	32995	19.149	ug/l		96
45) 1,2-Dichloropropane	7.427	63	33585	19.025	ug/l		97
46) Dibromomethane	7.580	93	26293	19.199	ug/l		99
47) Bromodichloromethane	7.818	83	44312	18.735	ug/l		99
48) Methyl methacrylate	7.696	41	40620	19.032	ug/l		98
49) 1,4-Dioxane	7.671	88	9801	268.697	ug/l	#	71
51) 4-Methyl-2-Pentanone	8.574	43	278267	98.429	ug/l		100
52) Toluene	8.714	92	82934	19.113	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	44614	18.785	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	49596	19.258	ug/l		91
55) 1,1,2-Trichloroethane	9.147	97	34013	19.732	ug/l		98
56) Ethyl methacrylate	9.116	69	52571	19.318	ug/l		99
57) 1,3-Dichloropropane	9.305	76	59489	19.827	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	129900	94.642	ug/l		100
59) 2-Hexanone	9.433	43	207578	101.440	ug/l		99
60) Dibromochloromethane	9.519	129	31066	18.318	ug/l		97
61) 1,2-Dibromoethane	9.610	107	34978	19.935	ug/l		98
64) Tetrachloroethene	9.275	164	27702	19.133	ug/l		97
65) Chlorobenzene	10.079	112	90631	19.389	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.165	131	29132	19.392	ug/l		99
67) Ethyl Benzene	10.195	91	158455	19.619	ug/l		98
68) m/p-Xylenes	10.299	106	116126	39.183	ug/l		98
69) o-Xylene	10.640	106	59787	19.938	ug/l		99
70) Styrene	10.653	104	95883	19.946	ug/l		98
71) Bromoform	10.799	173	16924	18.112	ug/l	#	96
73) Isopropylbenzene	10.963	105	153935	20.481	ug/l		98
74) N-amyl acetate	10.842	43	69643	20.049	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	52312	20.039	ug/l		97
76) 1,2,3-Trichloropropane	11.238	75	55384	24.859	ug/l		86
77) Bromobenzene	11.195	156	34951	19.176	ug/l		98
78) n-propylbenzene	11.305	91	169622	20.419	ug/l		100
79) 2-Chlorotoluene	11.366	91	106310	19.788	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	126626	20.315	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	11784	19.264	ug/l		90
82) 4-Chlorotoluene	11.451	91	118309	19.886	ug/l		100
83) tert-Butylbenzene	11.713	119	121929	19.794	ug/l		95
84) 1,2,4-Trimethylbenzene	11.750	105	125939	20.574	ug/l		99
85) sec-Butylbenzene	11.890	105	150795	20.165	ug/l		99
86) p-Isopropyltoluene	12.006	119	127790	20.532	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	64399	20.228	ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	64106	19.588	ug/l		99
89) n-Butylbenzene	12.329	91	104410	19.950	ug/l		99
90) Hexachloroethane	12.536	117	15939	17.543	ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	65511	19.817	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	9468	18.683	ug/l		97
93) 1,2,4-Trichlorobenzene	13.591	180	35001	19.313	ug/l		99
94) Hexachlorobutadiene	13.725	225	14415	19.774	ug/l		97
95) Naphthalene	13.774	128	142515	20.146	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	38639	20.101	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

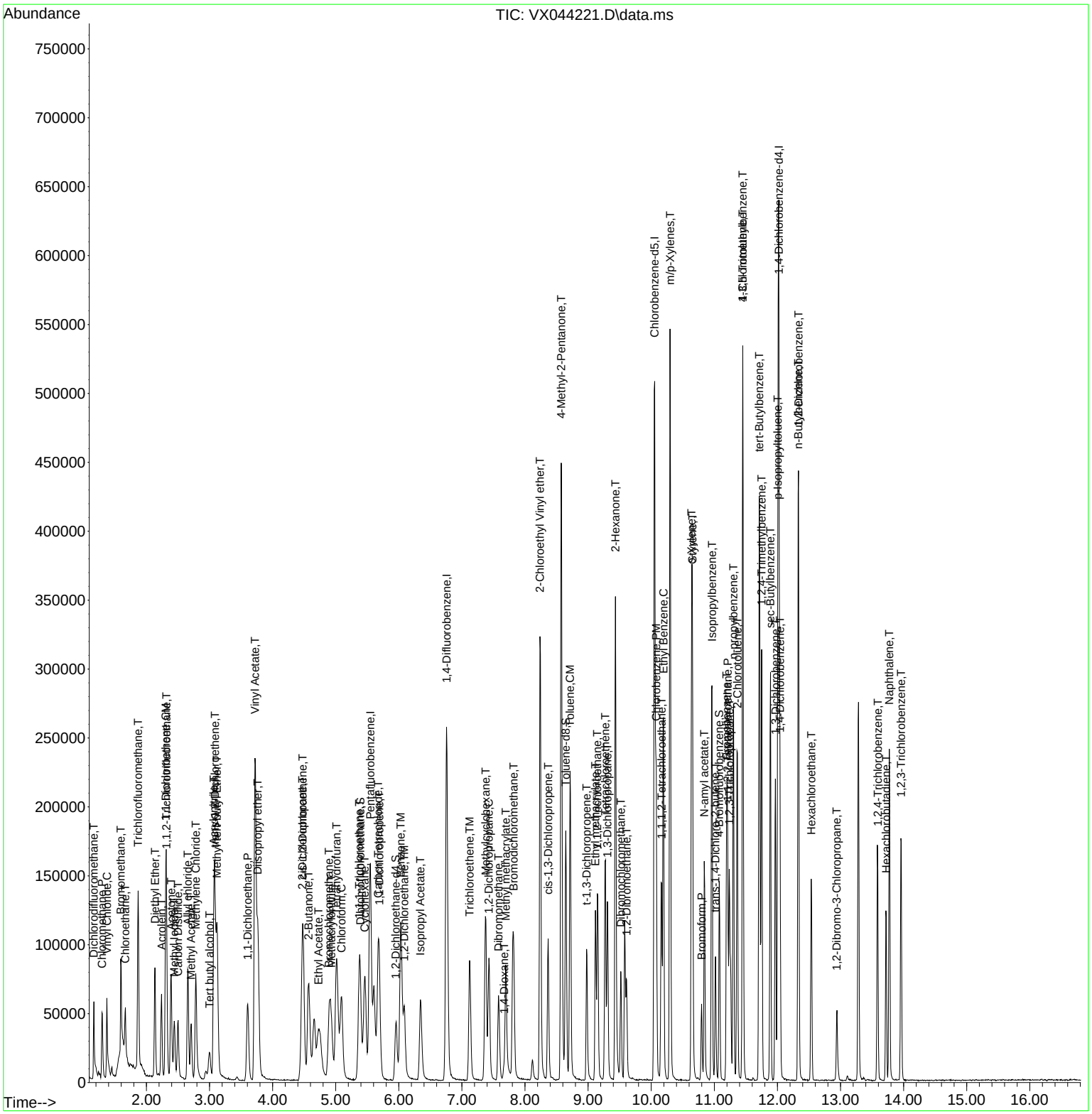
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

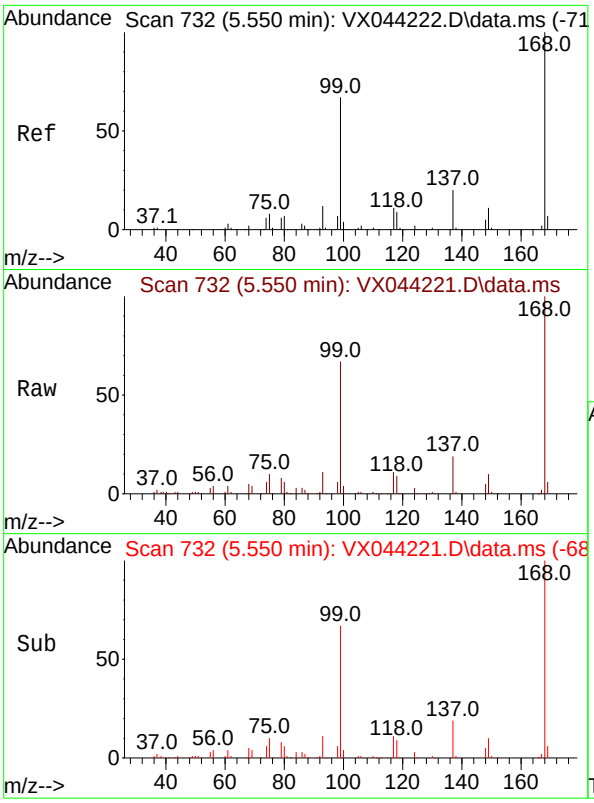
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration



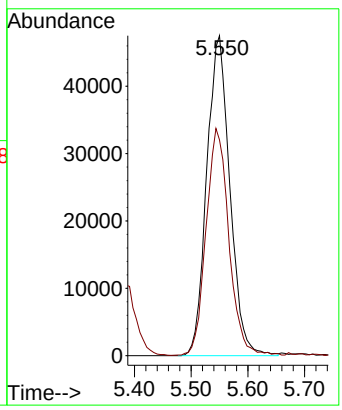


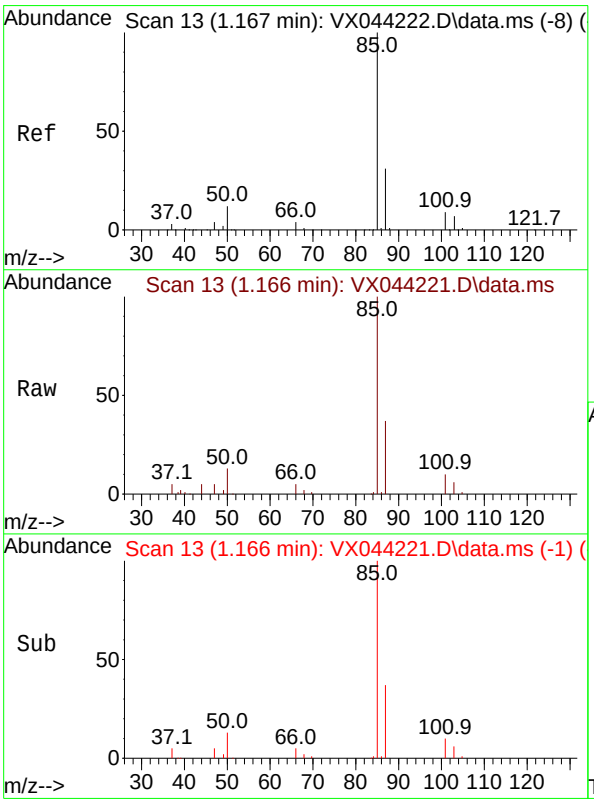
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 134436

Ion	Ratio	Lower	Upper
168	100		
99	67.2	53.4	80.0

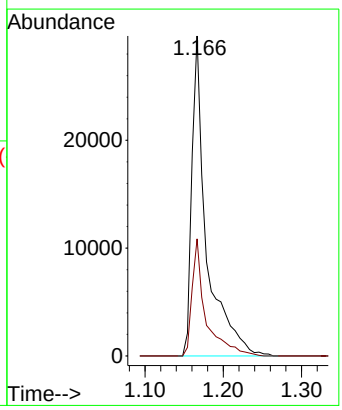


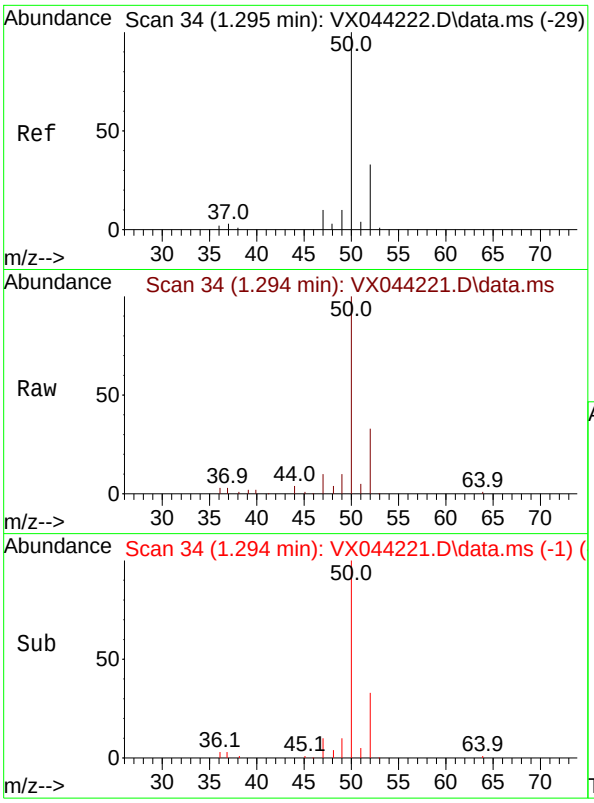


#2
Dichlorodifluoromethane
Concen: 18.640 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 85 Resp: 38748

Ion	Ratio	Lower	Upper
85	100		
87	36.6	15.4	46.4



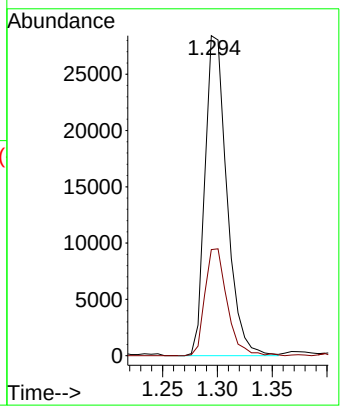


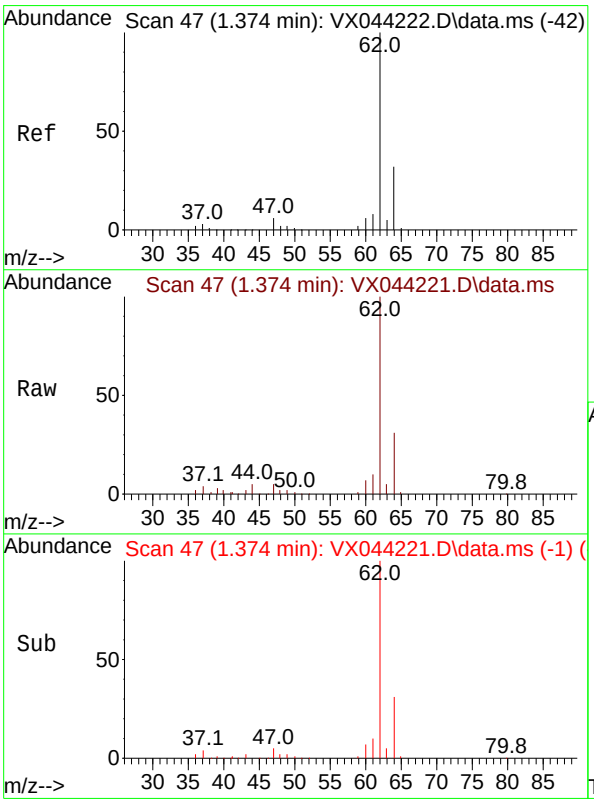
#3
Chloromethane
Concen: 19.894 ug/l
RT: 1.294 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 39546

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.5	39.7

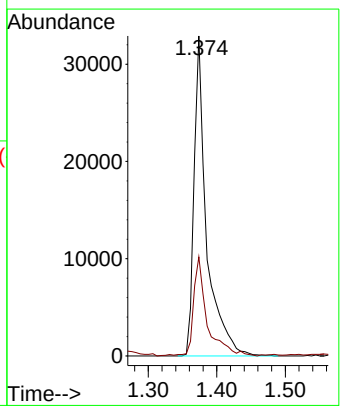


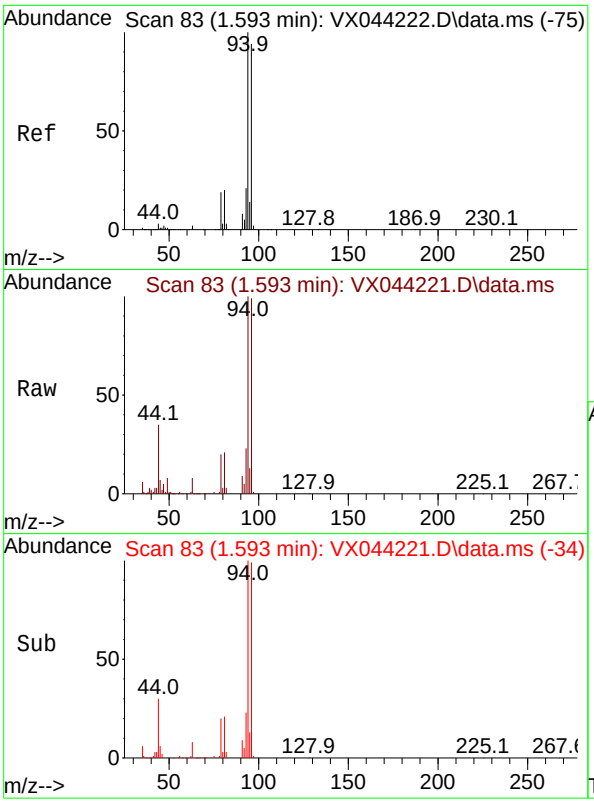


#4
Vinyl Chloride
Concen: 20.304 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 62 Resp: 42048

Ion	Ratio	Lower	Upper
62	100		
64	30.6	25.7	38.5



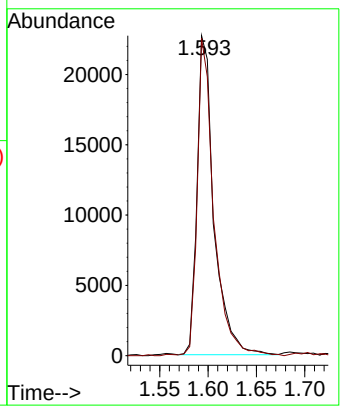


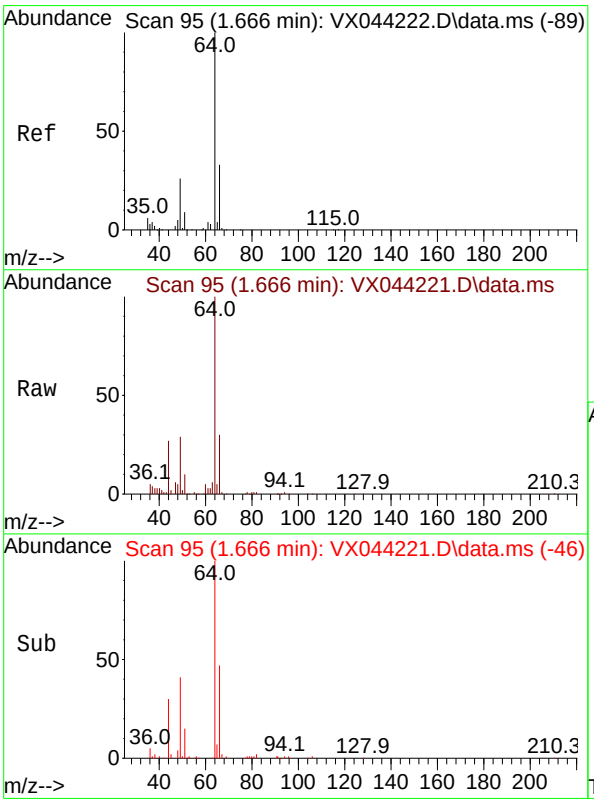
#5
Bromomethane
Concen: 18.789 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 27604

Ion	Ratio	Lower	Upper
94	100		
96	99.2	74.9	112.3

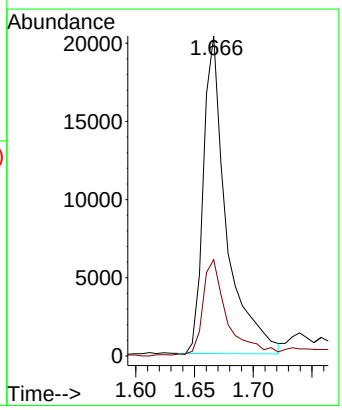


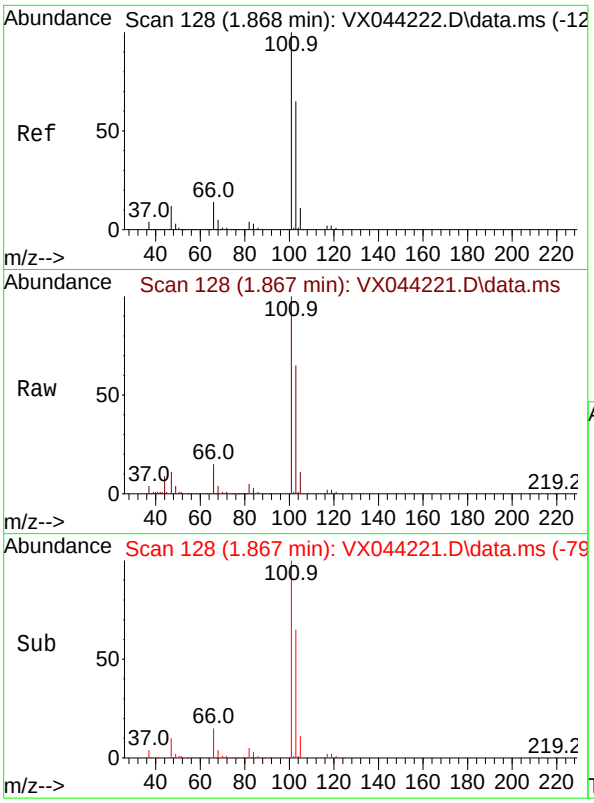


#6
Chloroethane
Concen: 21.460 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 64 Resp: 27673

Ion	Ratio	Lower	Upper
64	100		
66	29.8	26.6	39.8



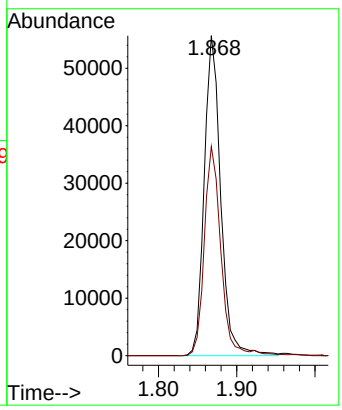


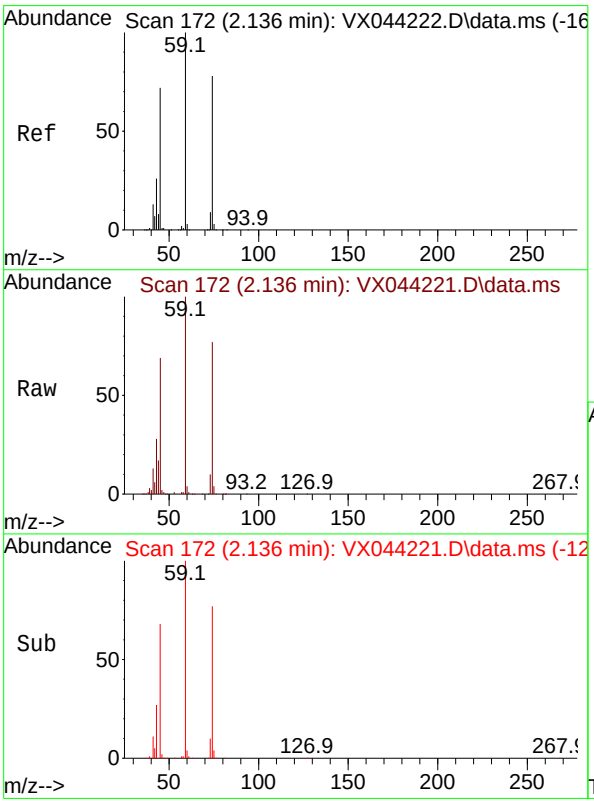
#7
Trichlorofluoromethane
Concen: 20.077 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 81398

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.8	77.8

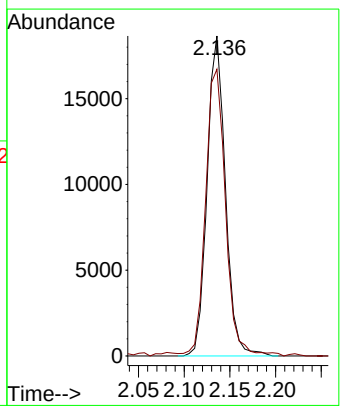


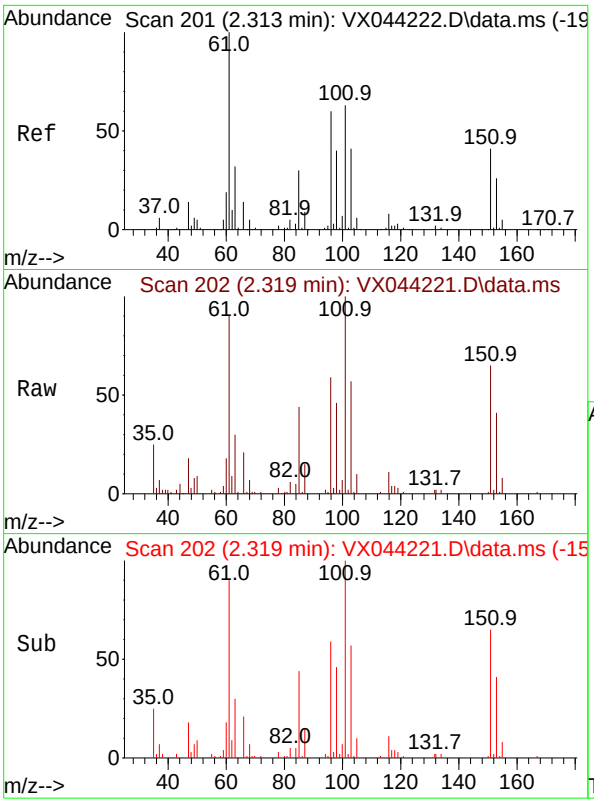


#8
Diethyl Ether
Concen: 18.704 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 74 Resp: 25884

Ion	Ratio	Lower	Upper
74	100		
45	97.8	48.4	145.0



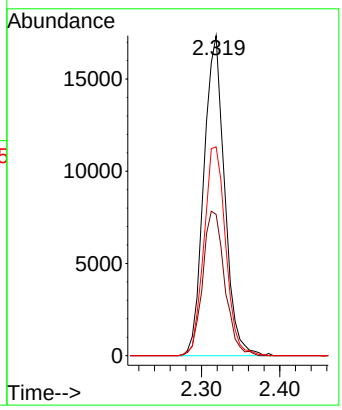


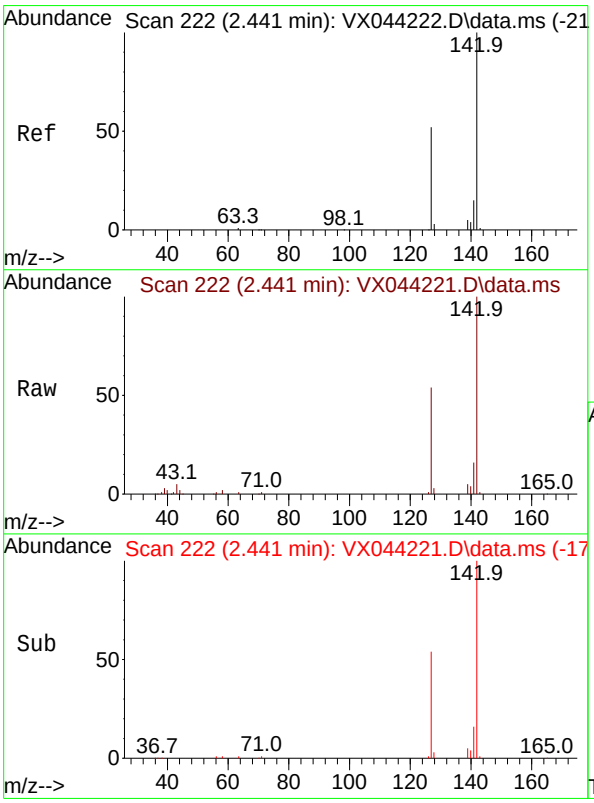
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.412 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 31846

Ion	Ratio	Lower	Upper
101	100		
85	48.0	38.5	57.7
151	68.6	55.8	83.6

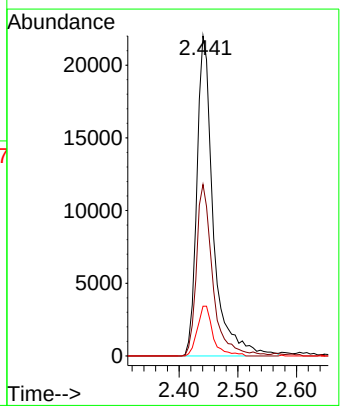


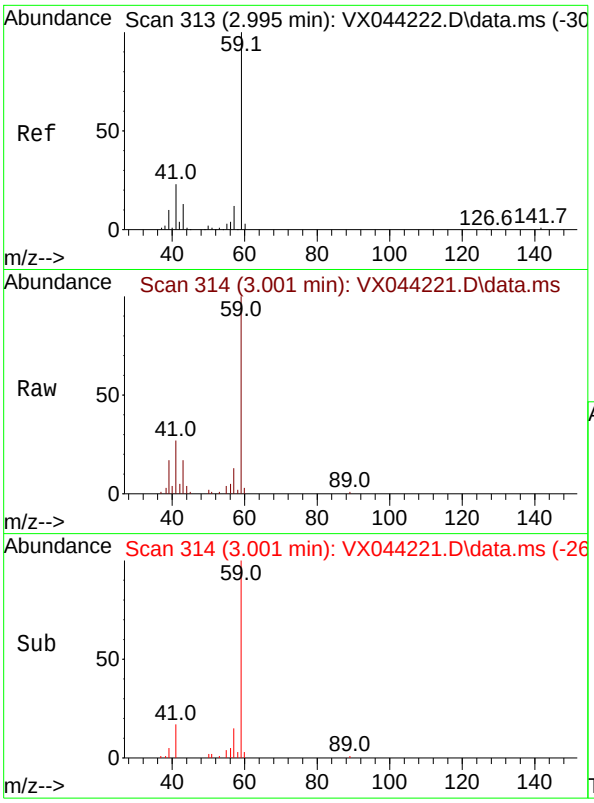


#10
Methyl Iodide
Concen: 19.788 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:142 Resp: 42786

Ion	Ratio	Lower	Upper
142	100		
127	52.9	41.8	62.8
141	14.8	11.5	17.3



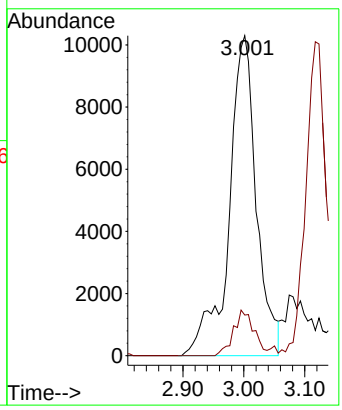


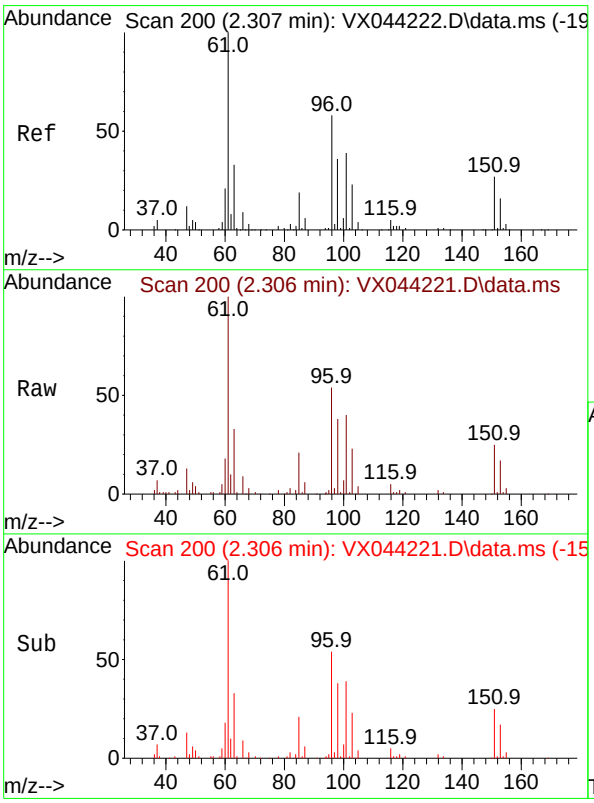
#11
Tert butyl alcohol
Concen: 97.050 ug/l
RT: 3.001 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 32189

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.8	13.2

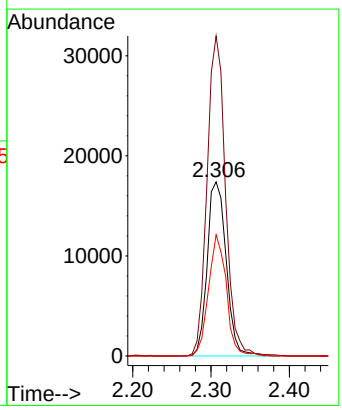


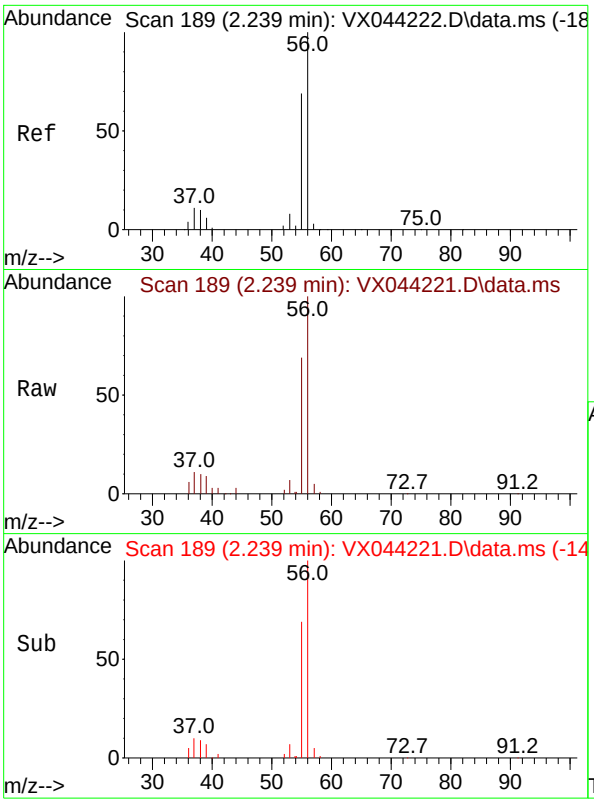


#12
1,1-Dichloroethene
Concen: 19.405 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 96 Resp: 29241

Ion	Ratio	Lower	Upper
96	100		
61	183.9	138.0	207.0
98	69.6	50.0	75.0



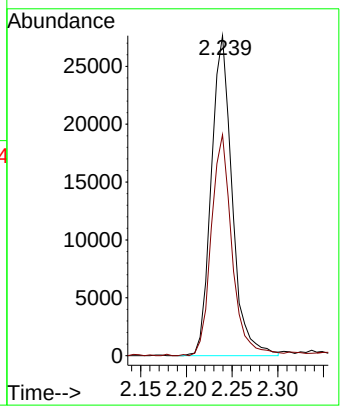


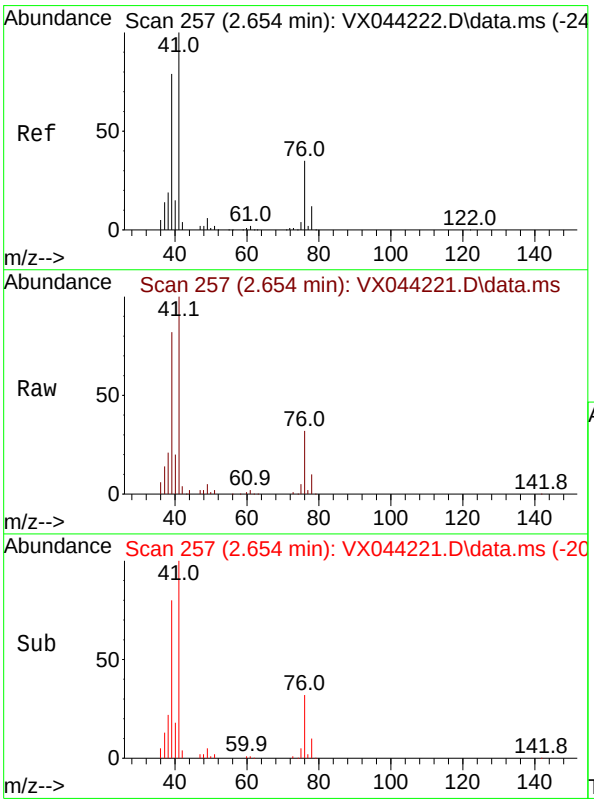
#13
Acrolein
Concen: 91.311 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 43909

Ion	Ratio	Lower	Upper
56	100		
55	68.6	56.6	84.8

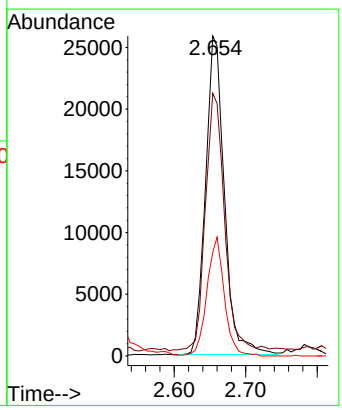


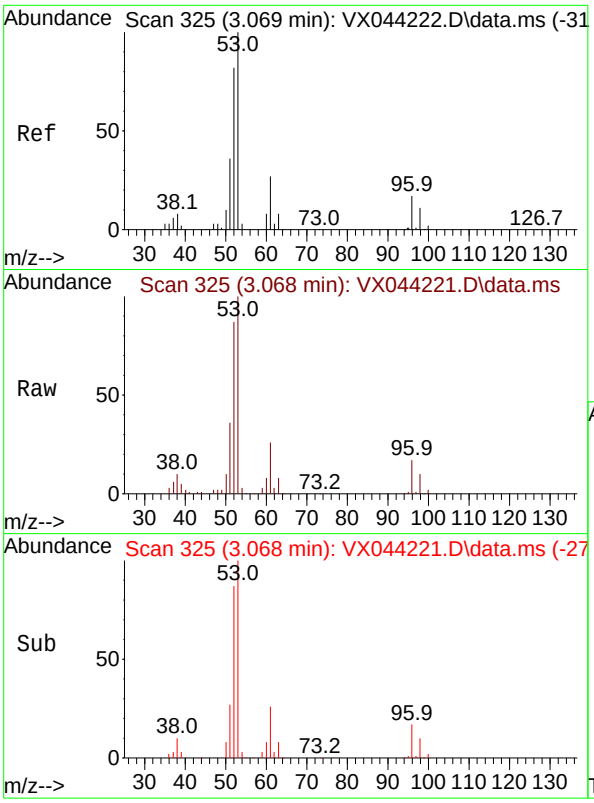


#14
Allyl chloride
Concen: 18.813 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 41 Resp: 47218

Ion	Ratio	Lower	Upper
41	100		
39	80.4	61.9	92.9
76	34.5	27.4	41.2



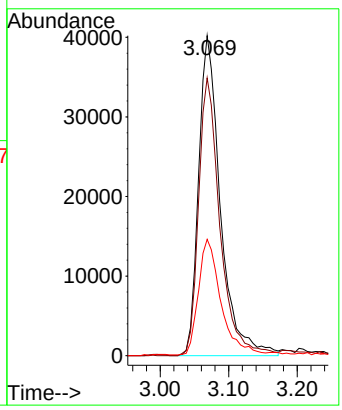


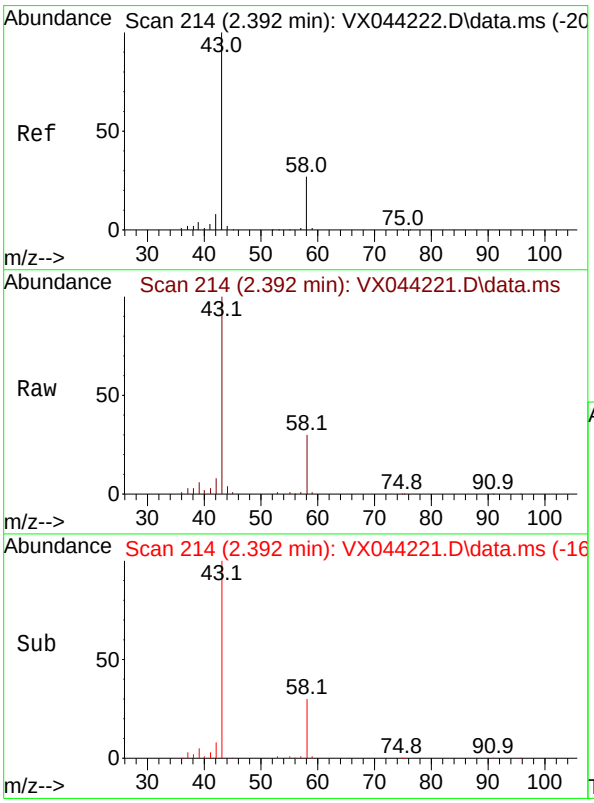
#15
Acrylonitrile
Concen: 96.988 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 89249

Ion	Ratio	Lower	Upper
53	100		
52	85.1	67.4	101.0
51	37.1	30.3	45.5

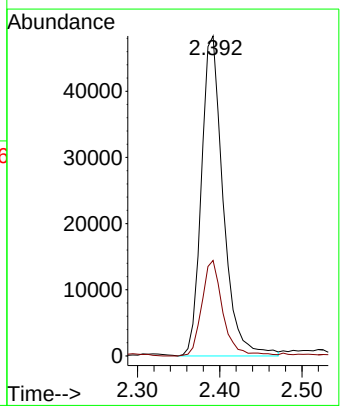


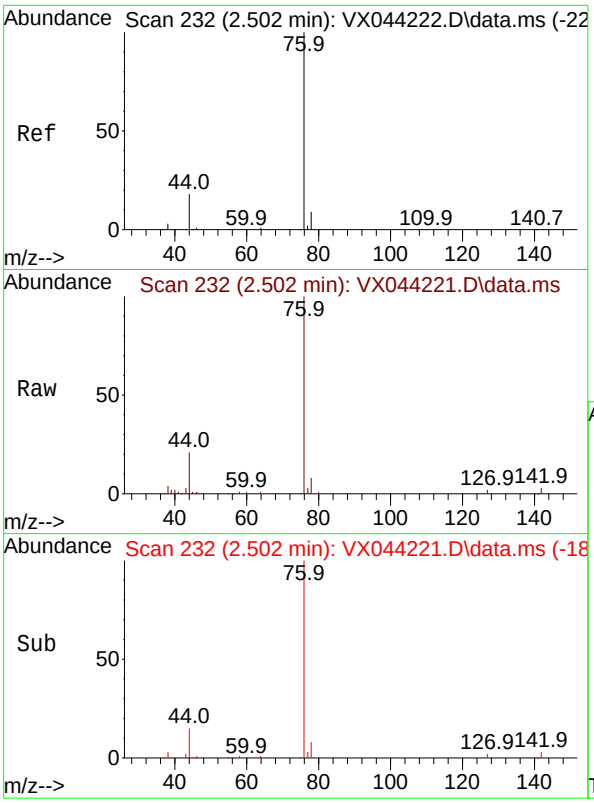


#16
Acetone
Concen: 92.601 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 88985

Ion	Ratio	Lower	Upper
43	100		
58	29.8	21.6	32.4



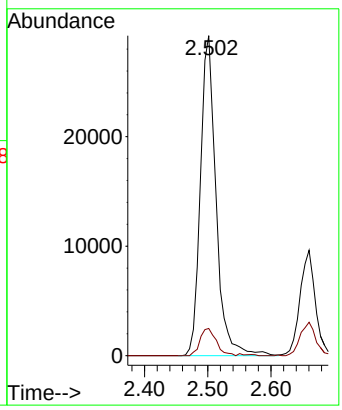


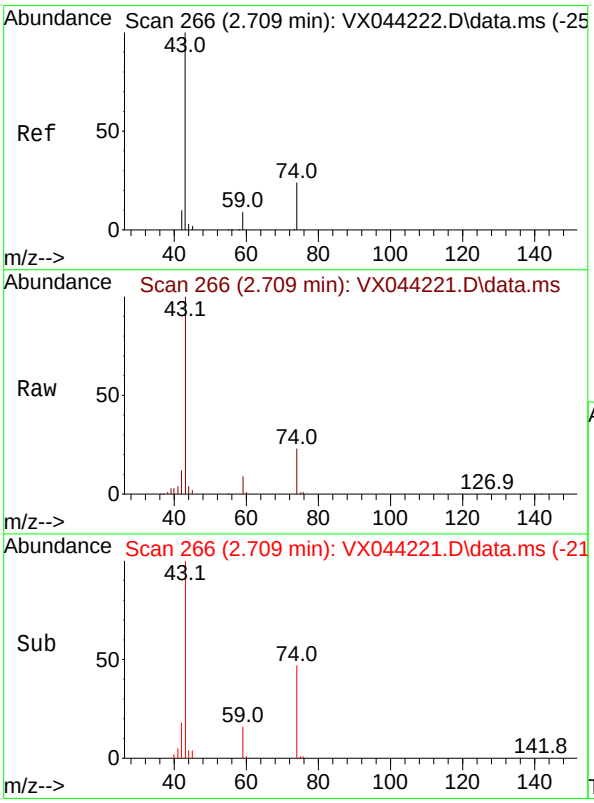
#17
Carbon Disulfide
Concen: 17.595 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 50399

Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.4	11.0

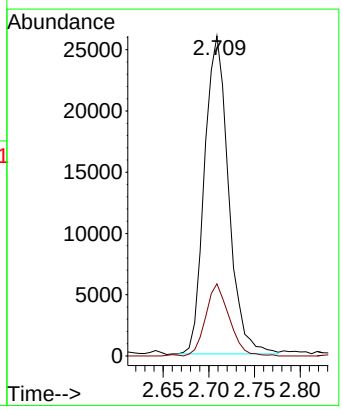


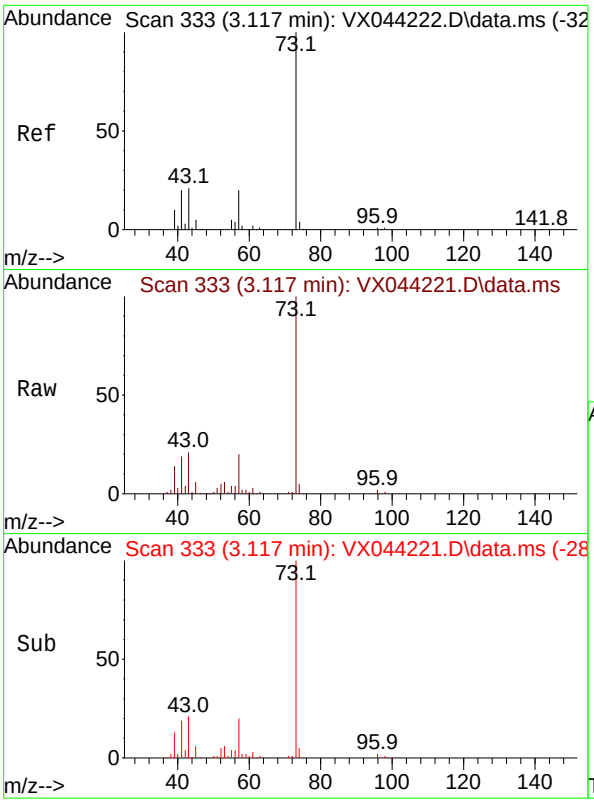


#18
Methyl Acetate
Concen: 19.175 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 47509

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.7	26.5



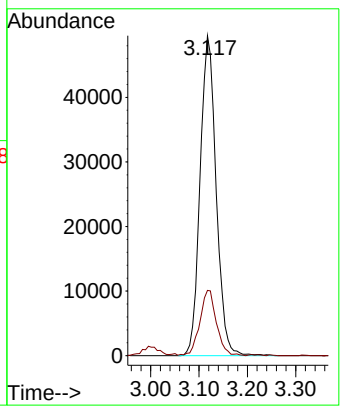


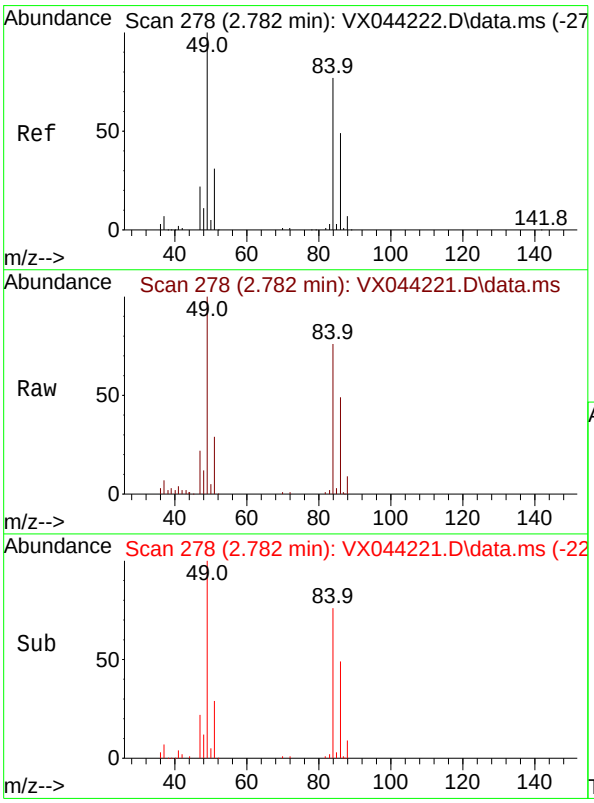
#19
Methyl tert-butyl Ether
Concen: 19.450 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 114371

Ion	Ratio	Lower	Upper
73	100		
57	20.4	16.2	24.4

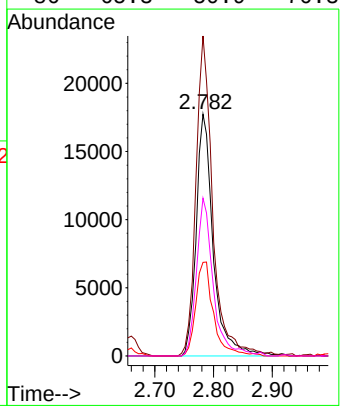


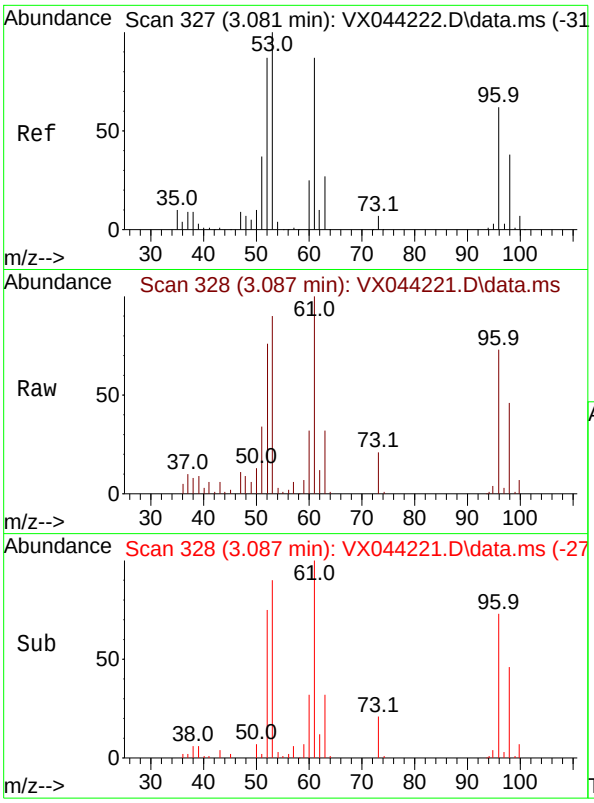


#20
Methylene Chloride
Concen: 19.846 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 84 Resp: 35820

Ion	Ratio	Lower	Upper
84	100		
49	132.3	104.2	156.4
51	38.7	32.2	48.4
86	65.3	50.9	76.3



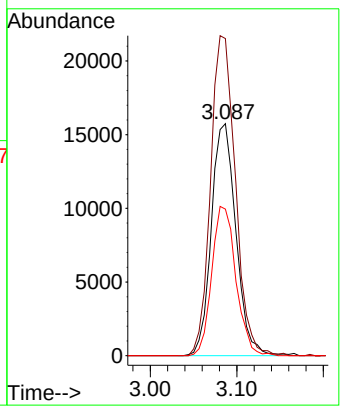


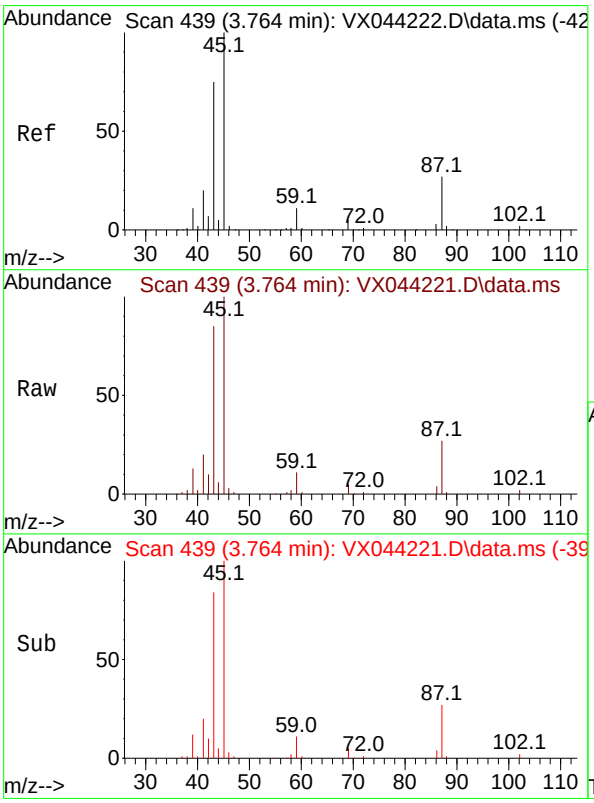
#21
trans-1,2-Dichloroethene
Concen: 19.380 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 31036

Ion	Ratio	Lower	Upper
96	100		
61	136.8	112.0	168.0
98	63.2	48.8	73.2

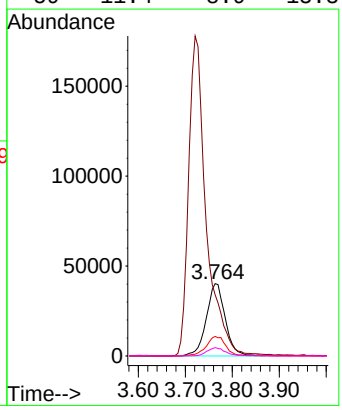


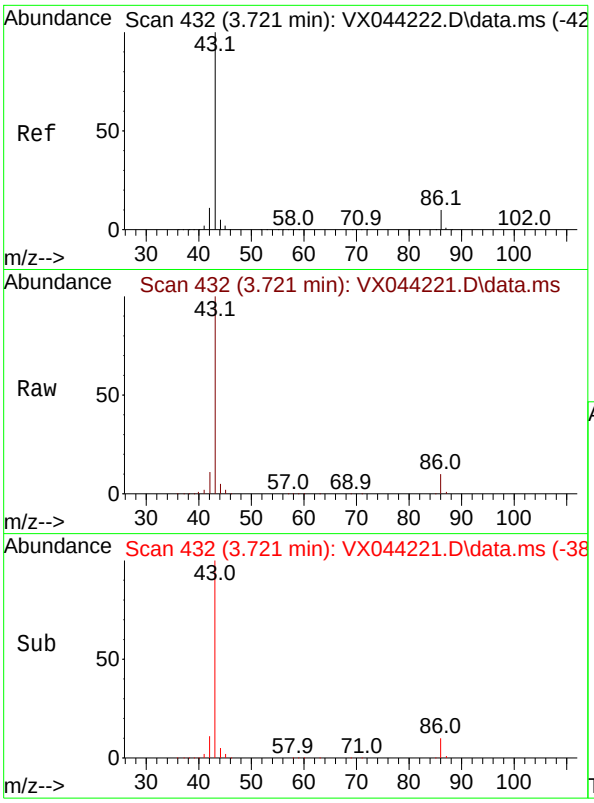


#22
Diisopropyl ether
Concen: 19.907 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 45 Resp: 112511

Ion	Ratio	Lower	Upper
45	100		
43	82.8	60.2	90.2
87	27.1	21.2	31.8
59	11.4	8.9	13.3



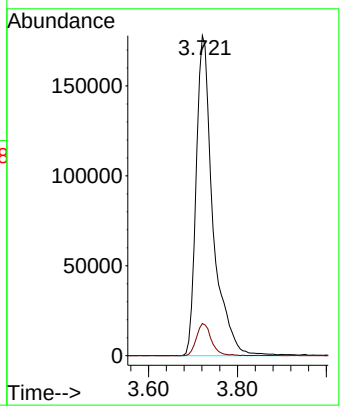


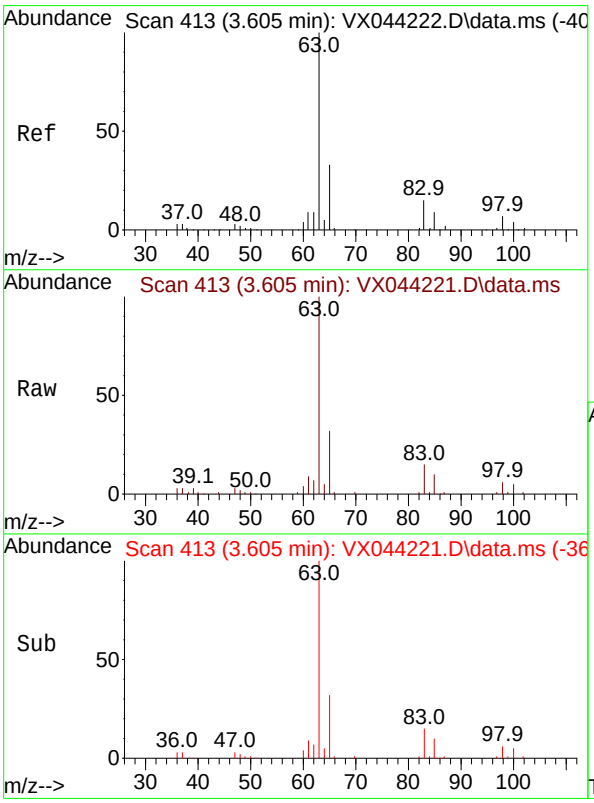
#23
Vinyl Acetate
Concen: 101.354 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 465716

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.2	12.2

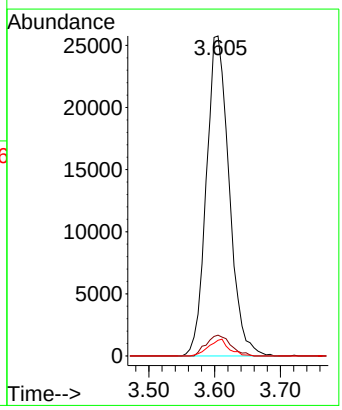


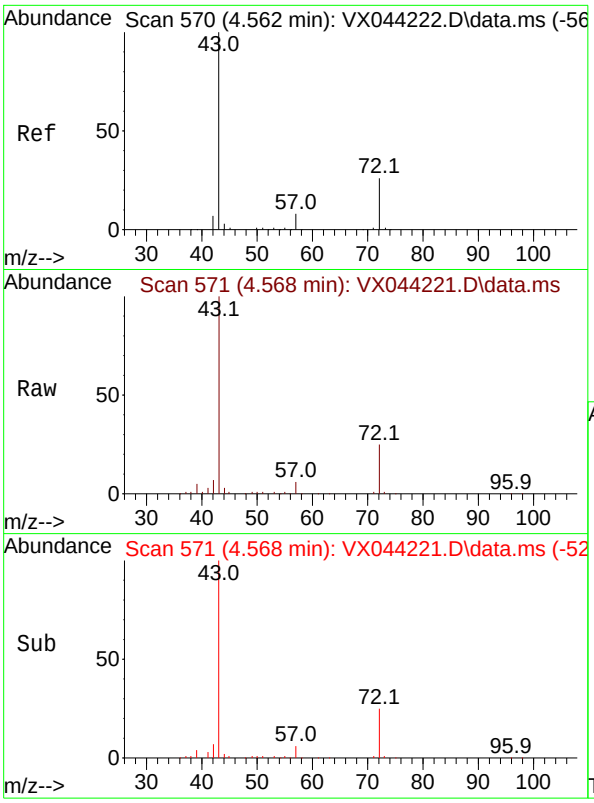


#24
1,1-Dichloroethane
Concen: 19.699 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 63 Resp: 62059

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.6	10.8
100	4.9	2.1	6.3



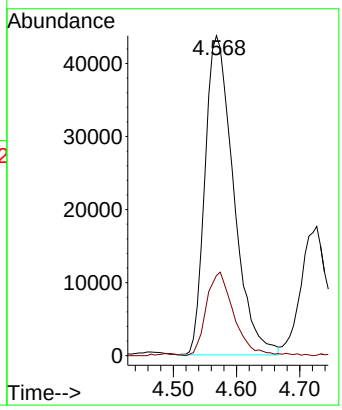


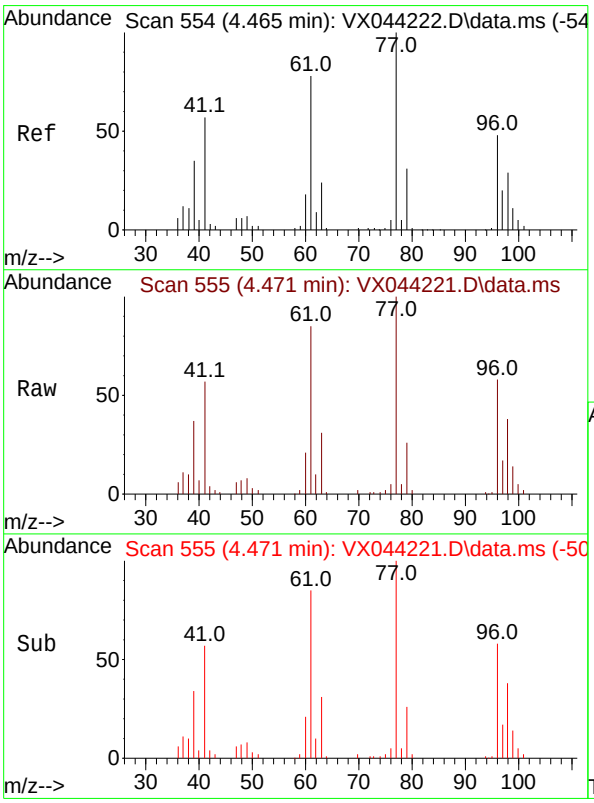
#25
2-Butanone
Concen: 100.277 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 136992

Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4

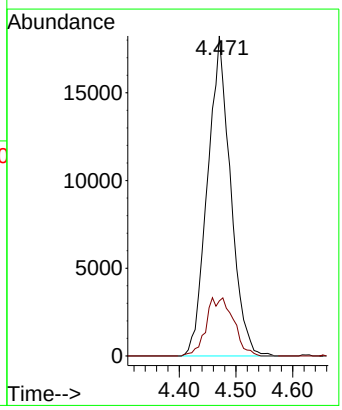


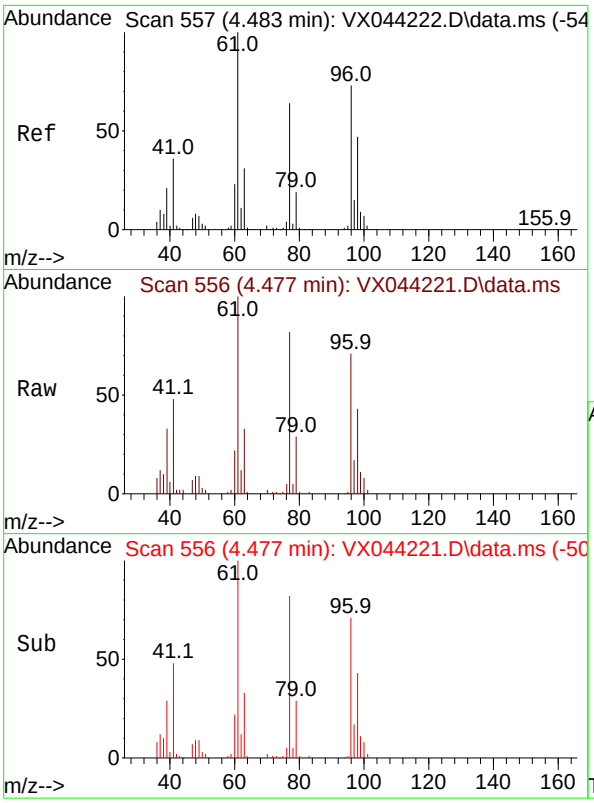


#26
2,2-Dichloropropane
Concen: 20.095 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 77 Resp: 51431

Ion	Ratio	Lower	Upper
77	100		
97	9.1	10.7	32.1#



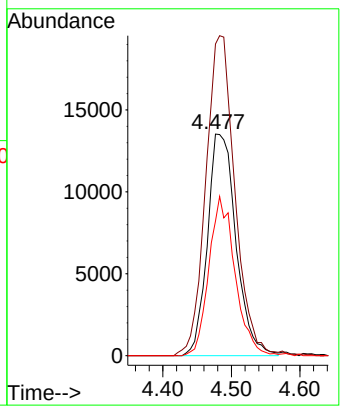


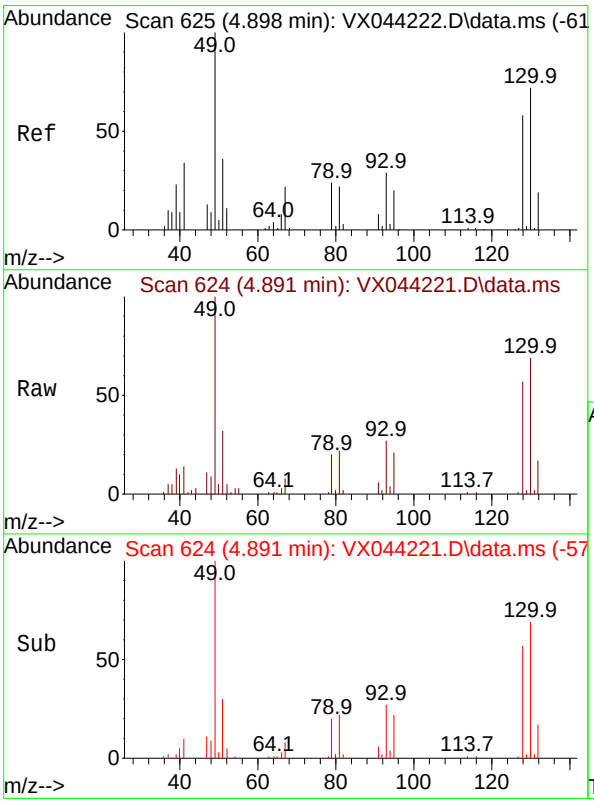
#27
cis-1,2-Dichloroethene
Concen: 19.254 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 39161

Ion	Ratio	Lower	Upper
96	100		
61	147.6	0.0	299.0
98	65.5	0.0	129.0

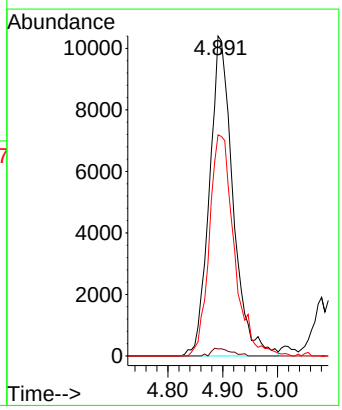


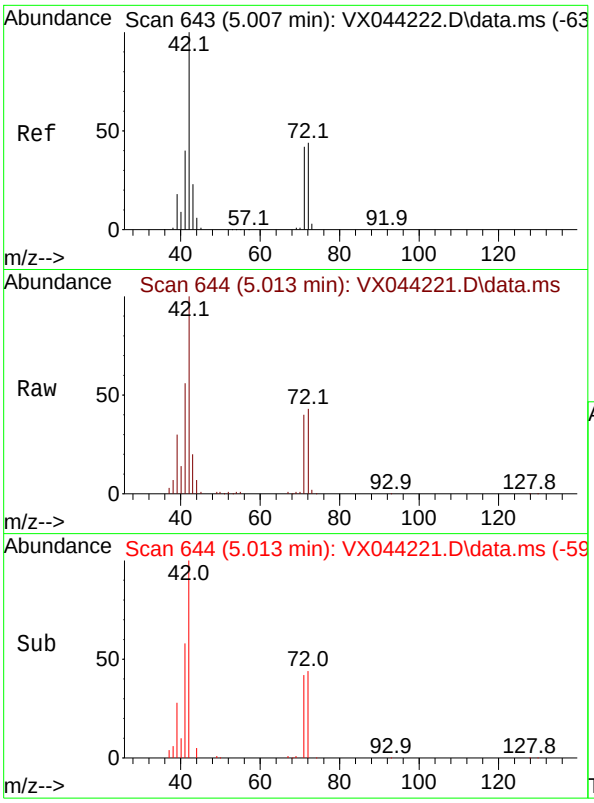


#28
Bromochloromethane
Concen: 20.052 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 49 Resp: 30977

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	73.1	62.1	93.1



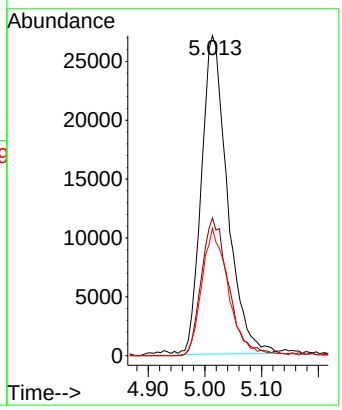


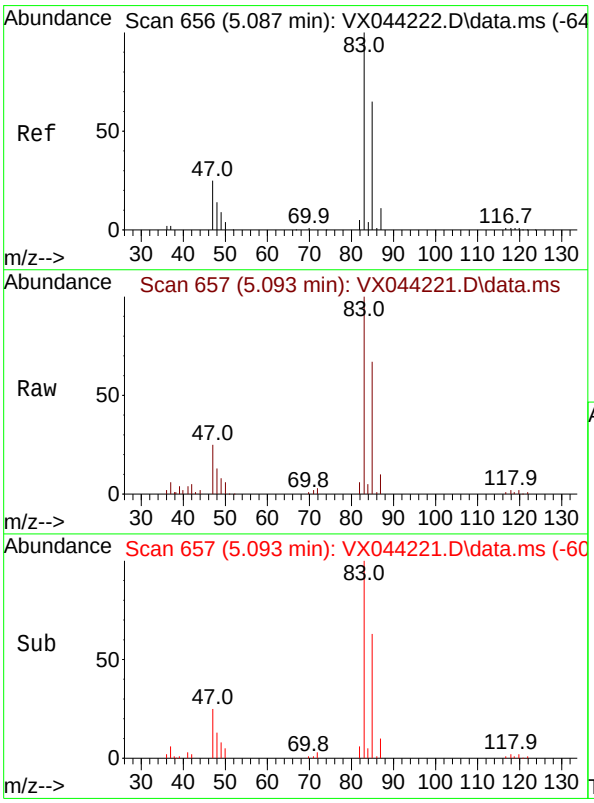
#29
Tetrahydrofuran
Concen: 98.343 ug/l
RT: 5.013 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 86235

Ion	Ratio	Lower	Upper
42	100		
72	45.2	37.0	55.6
71	41.1	33.6	50.4

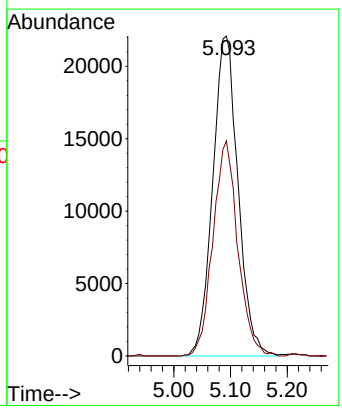


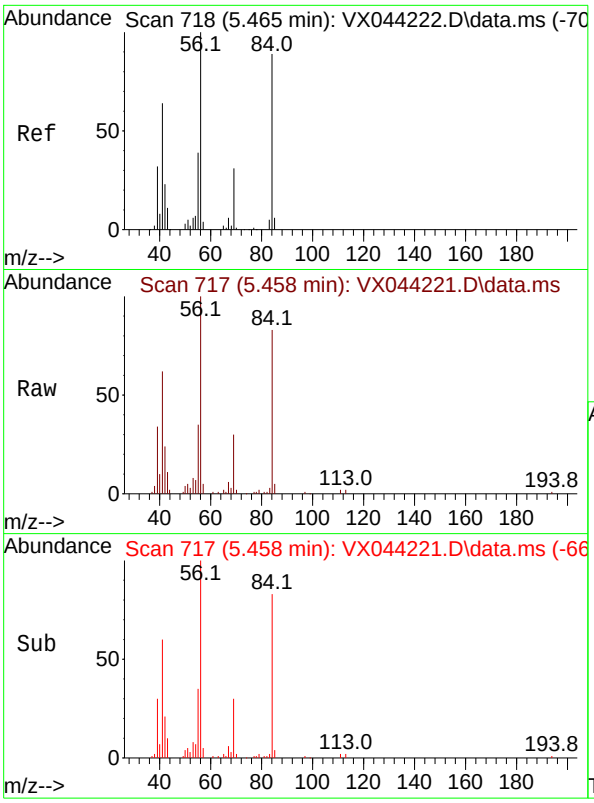


#30
Chloroform
Concen: 19.327 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 83 Resp: 68410

Ion	Ratio	Lower	Upper
83	100		
85	67.2	51.6	77.4



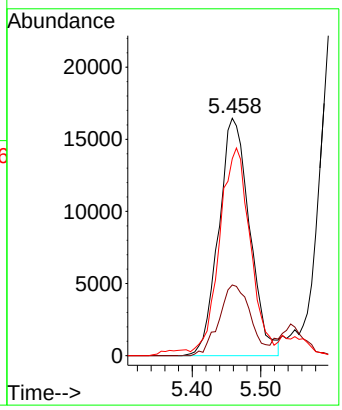


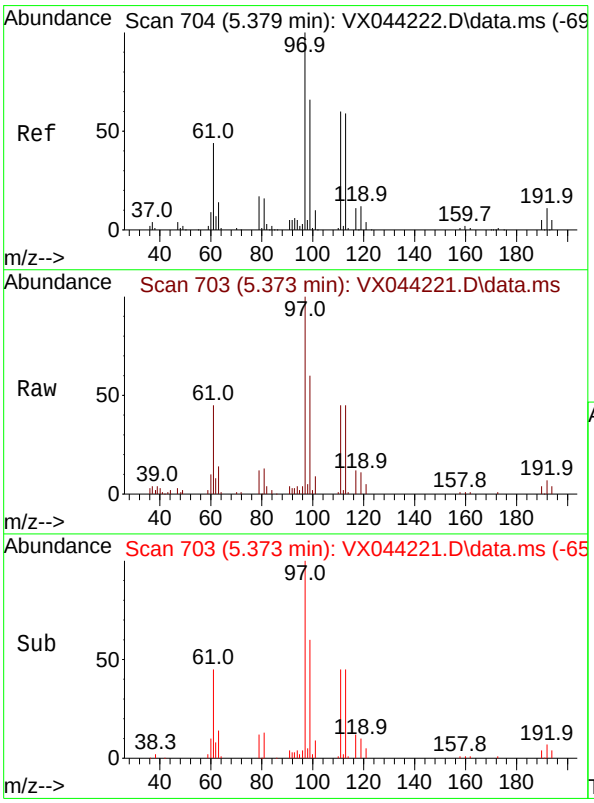
#31
Cyclohexane
Concen: 20.351 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 51773

Ion	Ratio	Lower	Upper
56	100		
69	29.8	24.7	37.1
84	80.7	71.0	106.6

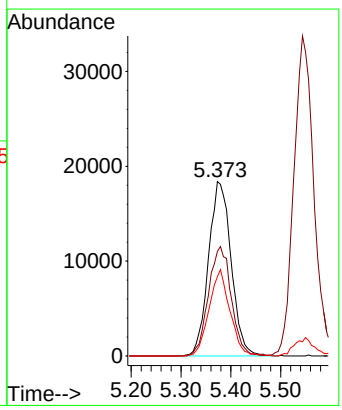


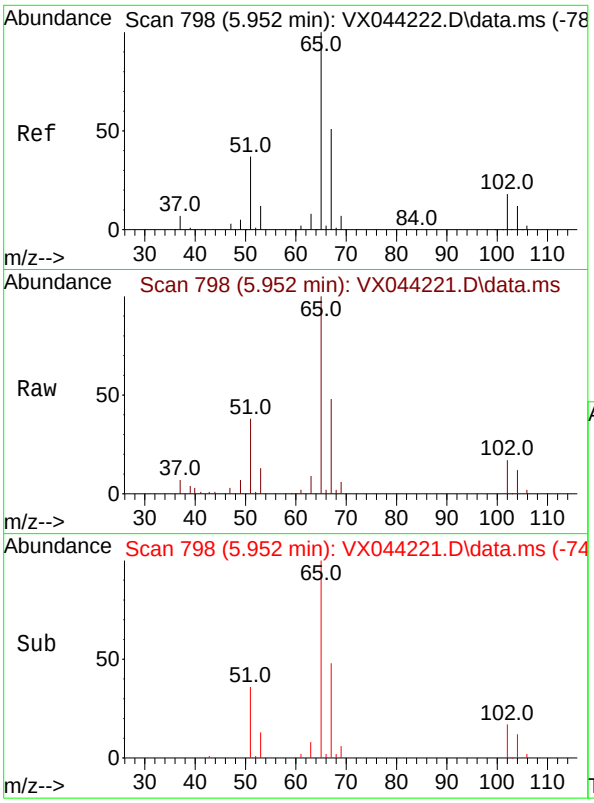


#32
1,1,1-Trichloroethane
Concen: 19.706 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 97 Resp: 57900

Ion	Ratio	Lower	Upper
97	100		
99	63.0	50.8	76.2
61	45.7	35.2	52.8



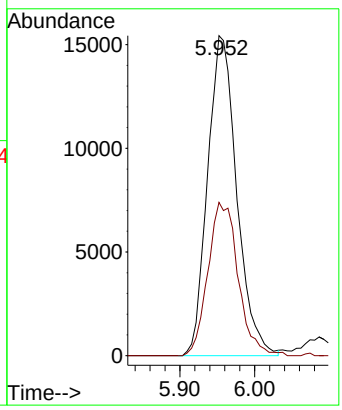


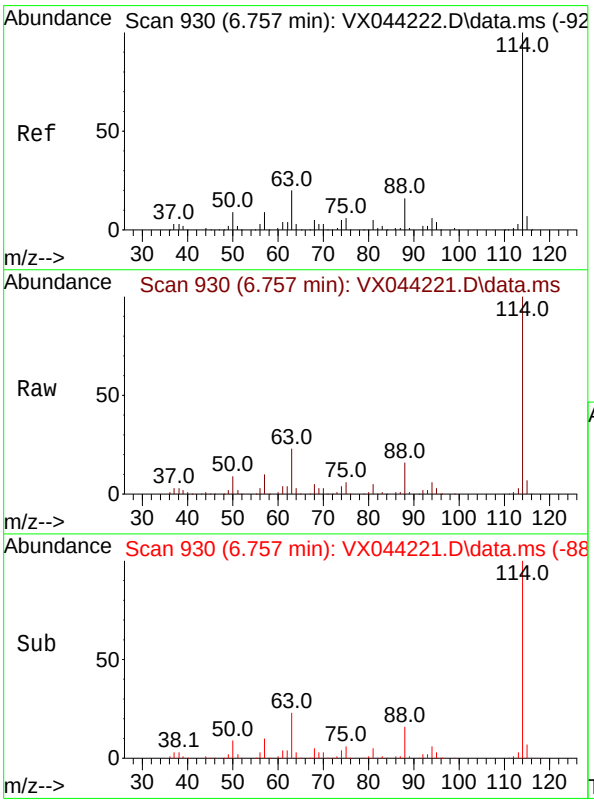
#33
1,2-Dichloroethane-d4
Concen: 17.743 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 41821

Ion	Ratio	Lower	Upper
65	100		
67	49.6	0.0	101.6

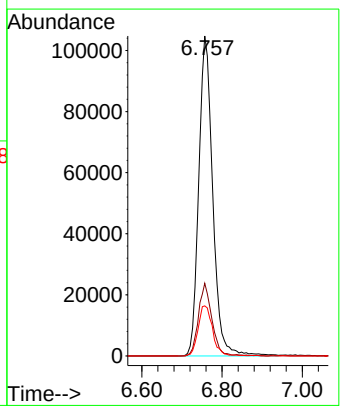


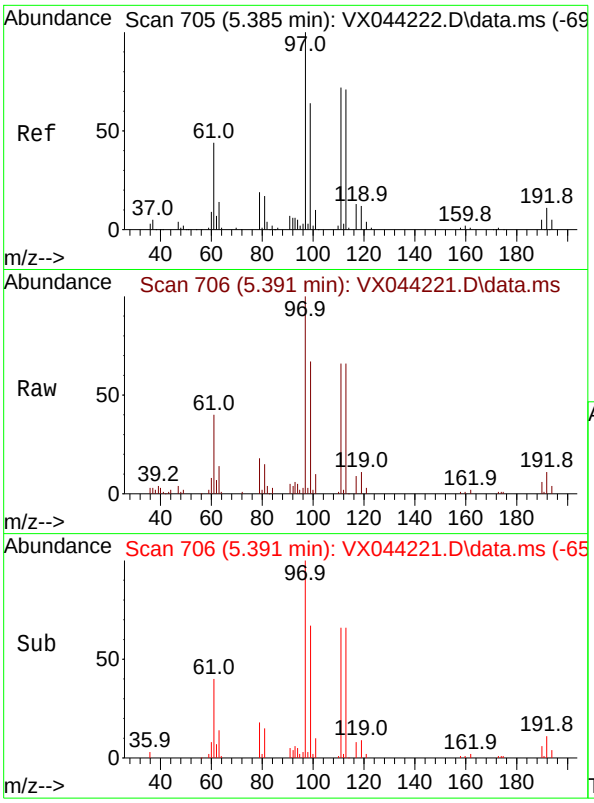


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:114 Resp: 254199

Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	40.6
88	15.7	0.0	31.8



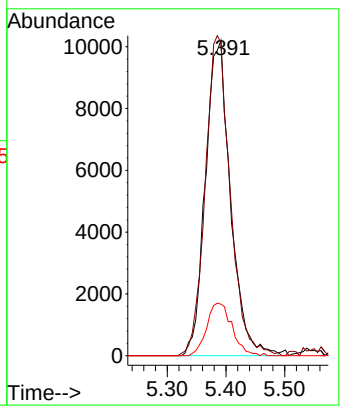


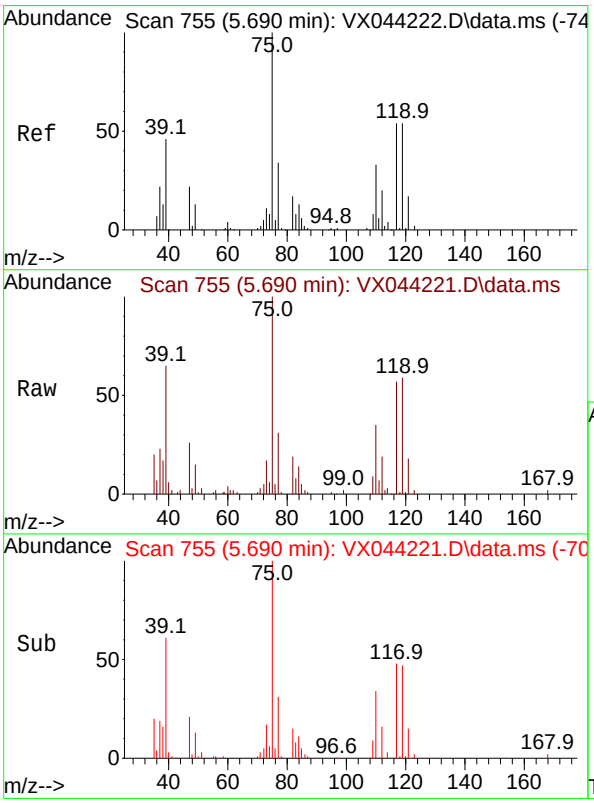
#35
Dibromofluoromethane
Concen: 17.213 ug/l
RT: 5.391 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 30304

Ion	Ratio	Lower	Upper
113	100		
111	100.9	80.4	120.6
192	16.7	13.3	19.9

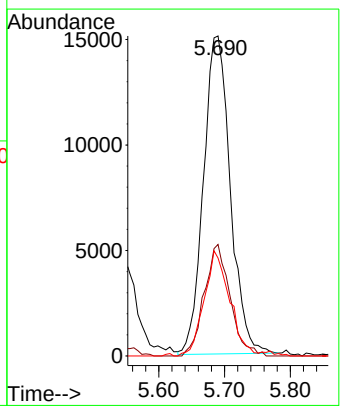


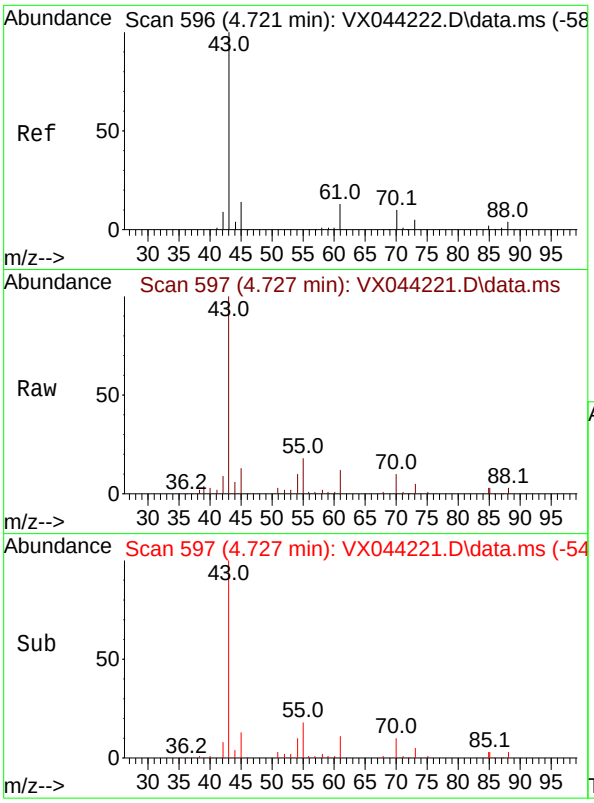


#36
1,1-Dichloropropene
Concen: 18.841 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 42878

Ion	Ratio	Lower	Upper
75	100		
110	33.7	17.3	51.7
77	31.3	25.4	38.0



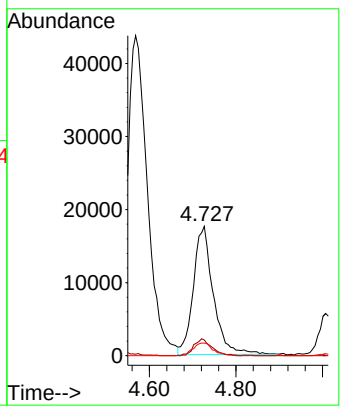


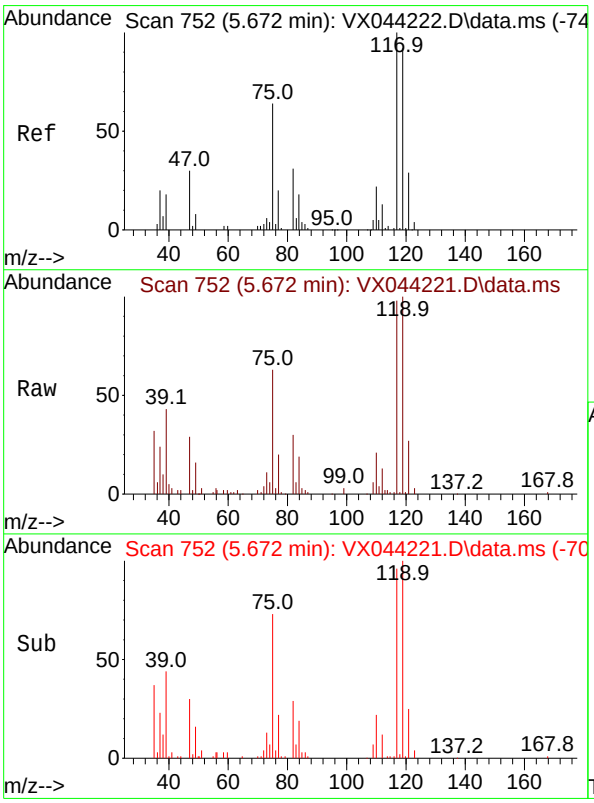
#37
Ethyl Acetate
Concen: 19.913 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 56019

Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.8	14.8
70	9.9	7.7	11.5

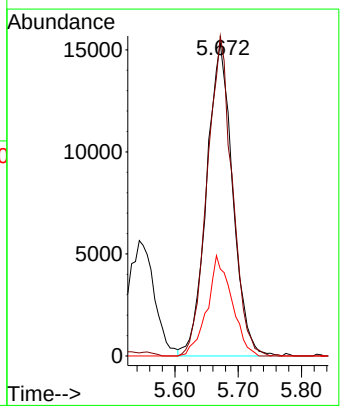


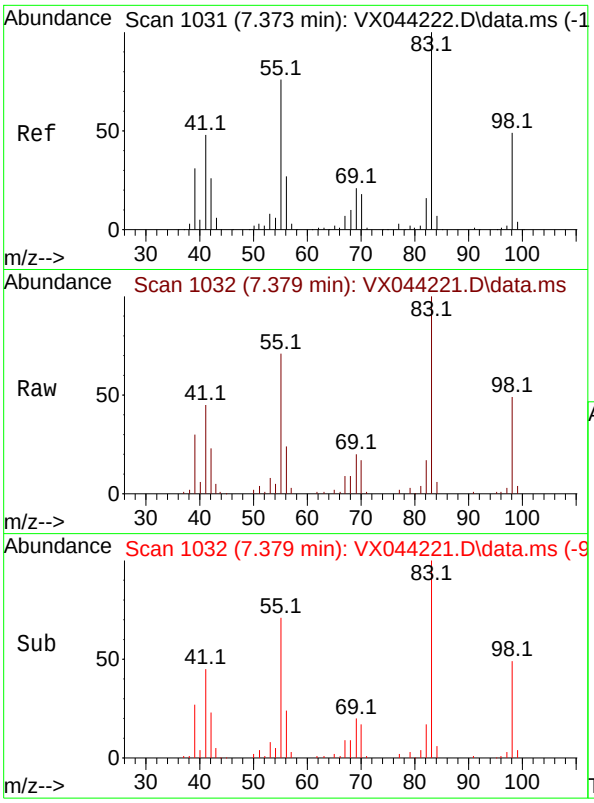


#38
Carbon Tetrachloride
Concen: 17.918 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:117 Resp: 43901

Ion	Ratio	Lower	Upper
117	100		
119	102.3	74.2	111.4
121	27.8	23.0	34.6



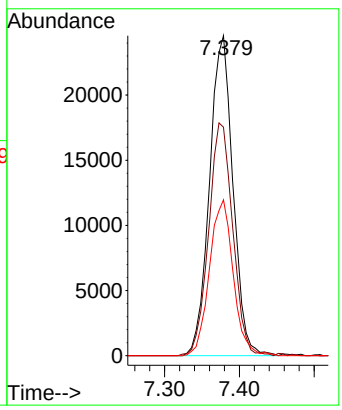


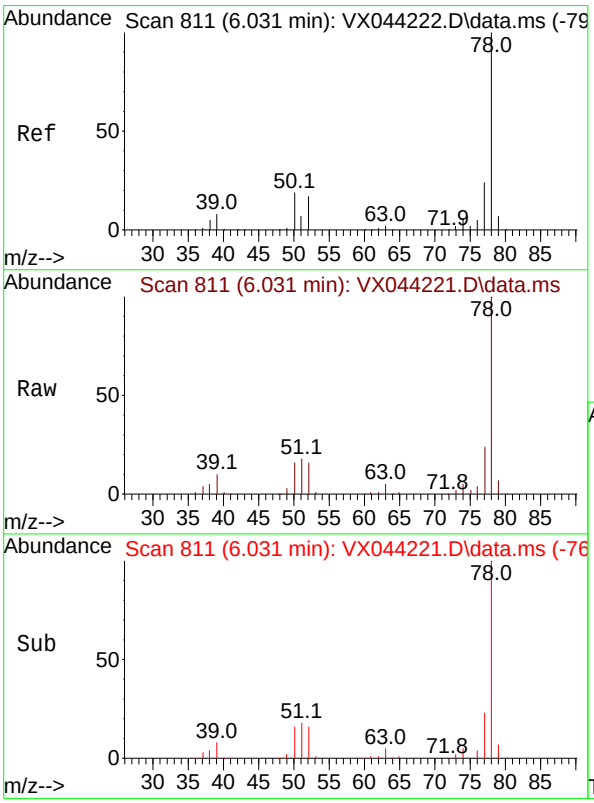
#39
Methylcyclohexane
Concen: 19.678 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 53536

Ion	Ratio	Lower	Upper
83	100		
55	71.4	60.7	91.1
98	48.7	38.9	58.3

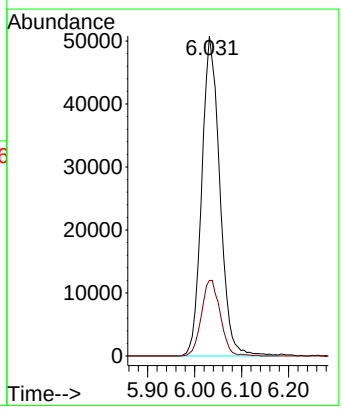


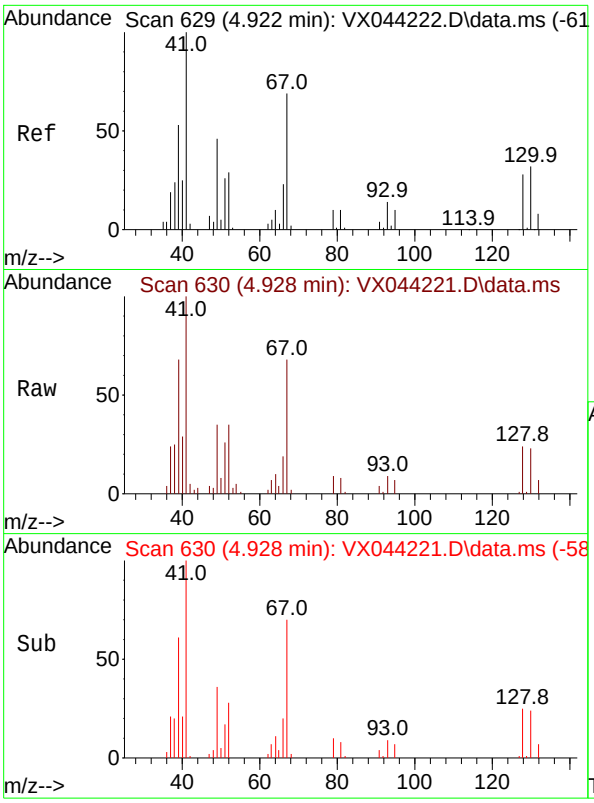


#40
Benzene
Concen: 19.606 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 78 Resp: 135467

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.3	28.9



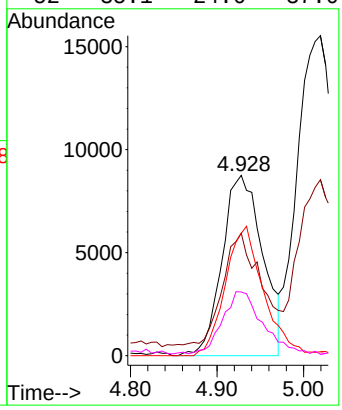


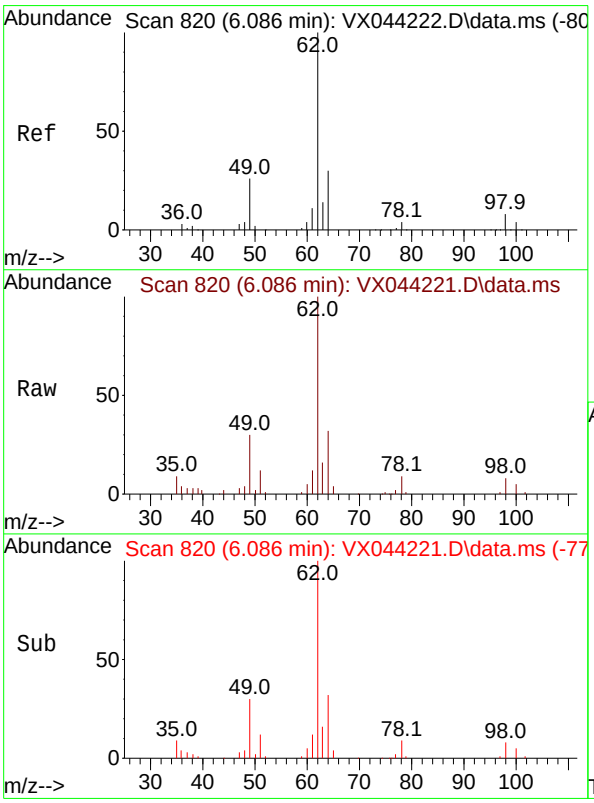
#41
Methacrylonitrile
Concen: 19.095 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 28523

Ion	Ratio	Lower	Upper
41	100		
39	59.0	44.2	66.4
67	67.6	57.2	85.8
52	35.1	24.6	37.0

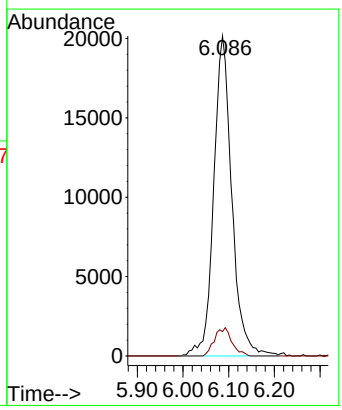


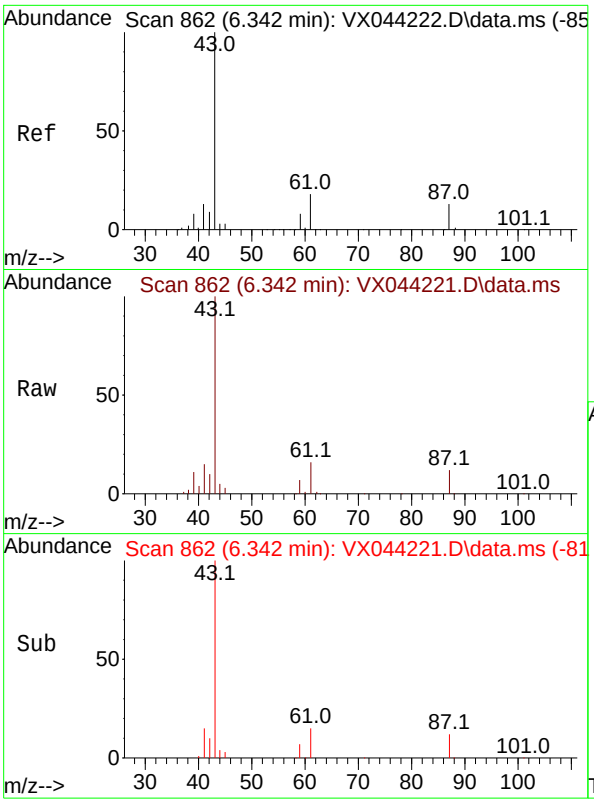


#42
1,2-Dichloroethane
Concen: 19.456 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 62 Resp: 55377

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	15.8



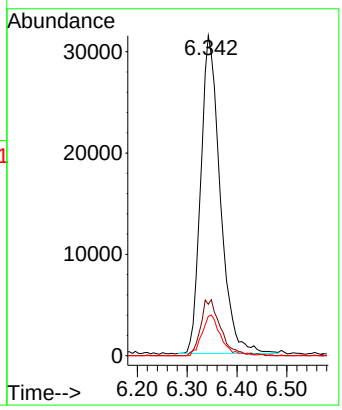


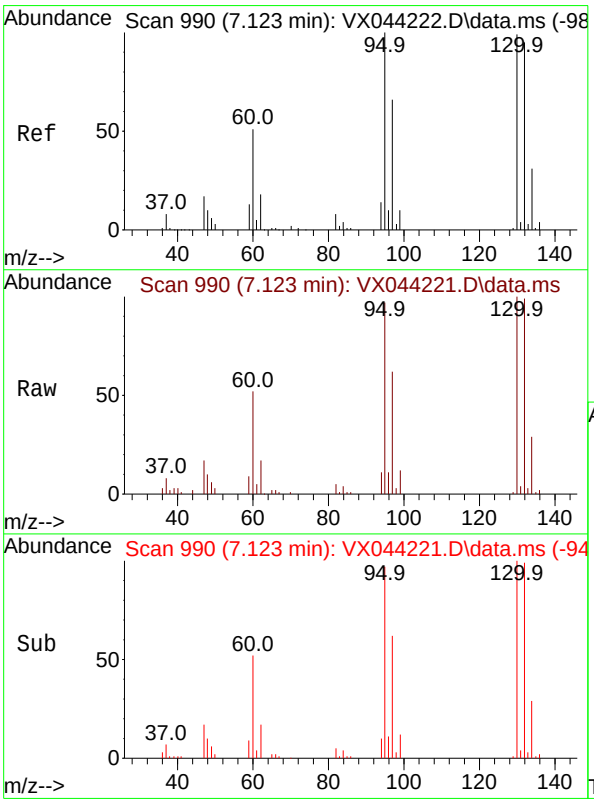
#43
Isopropyl Acetate
Concen: 19.301 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 84866

Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.2	21.2
87	12.5	10.2	15.2

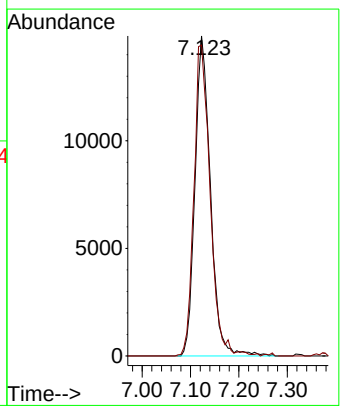


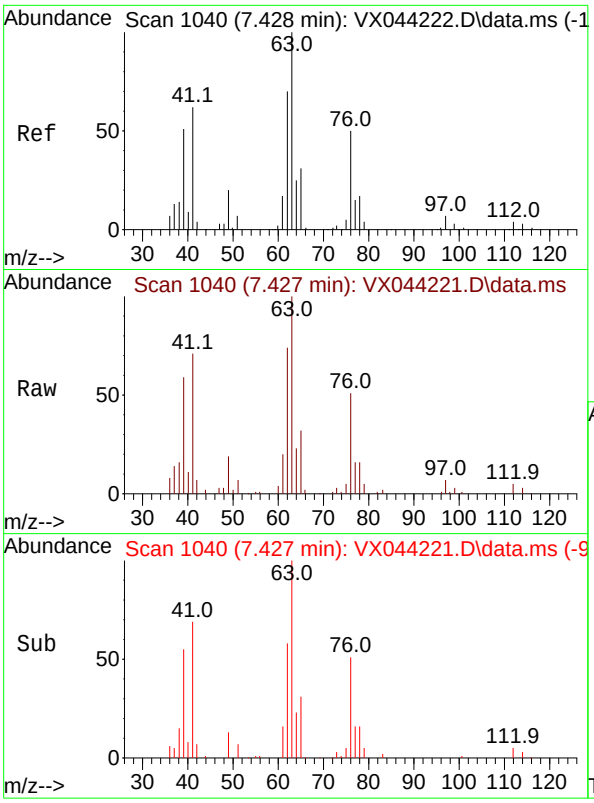


#44
Trichloroethene
Concen: 19.149 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:130 Resp: 32995

Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	201.4



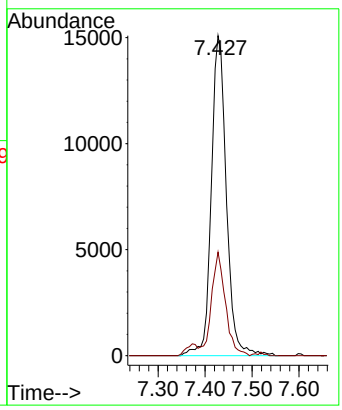


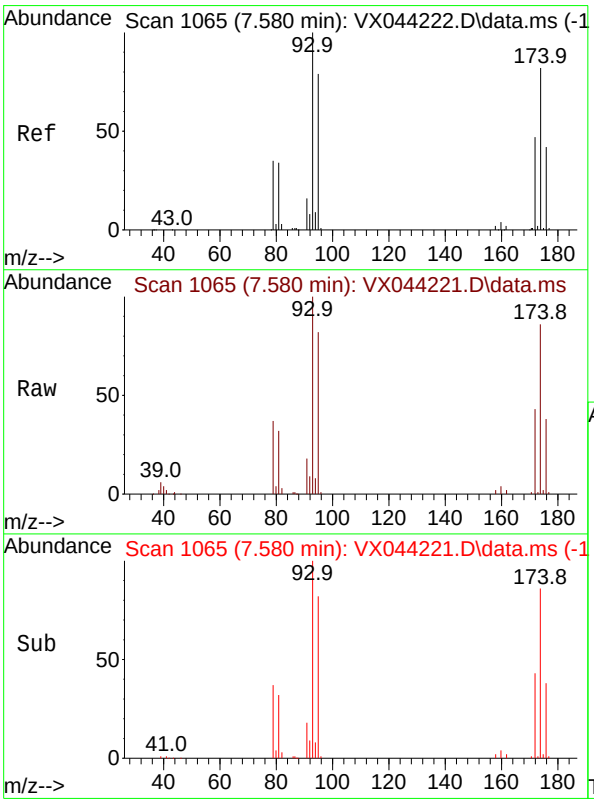
#45
1,2-Dichloropropane
Concen: 19.025 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 33585

Ion	Ratio	Lower	Upper
63	100		
65	32.4	24.6	37.0

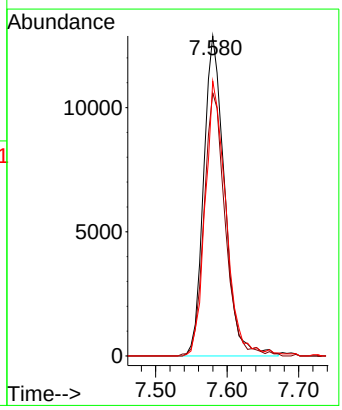


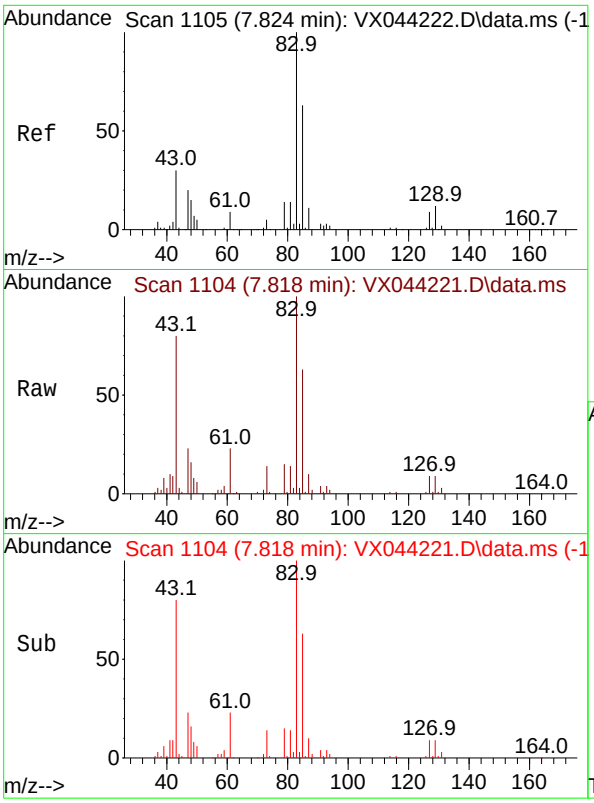


#46
Dibromomethane
Concen: 19.199 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 93 Resp: 26293

Ion	Ratio	Lower	Upper
93	100		
95	83.0	65.4	98.2
174	86.1	67.9	101.9



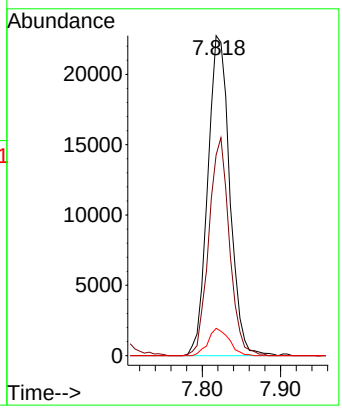


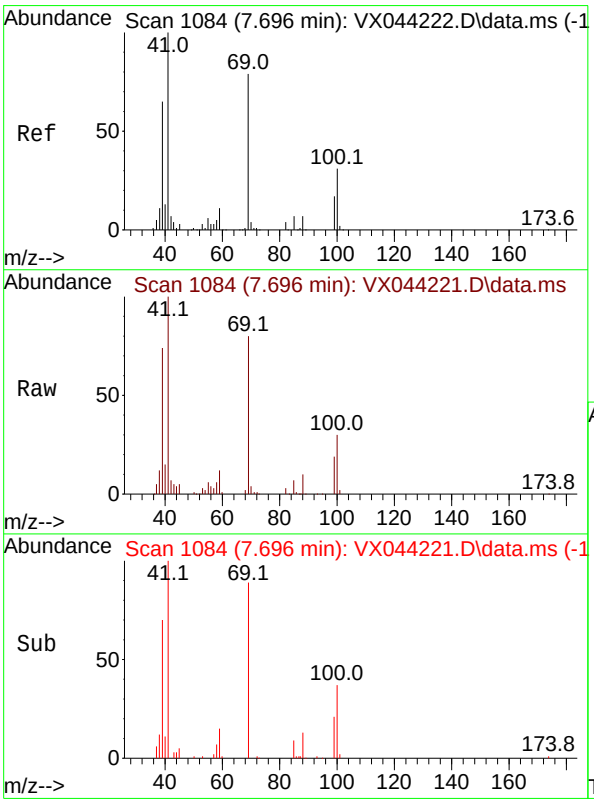
#47
Bromodichloromethane
Concen: 18.735 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 44312

Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.6	75.8
127	8.6	7.3	10.9

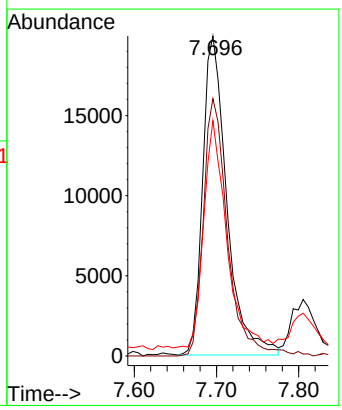


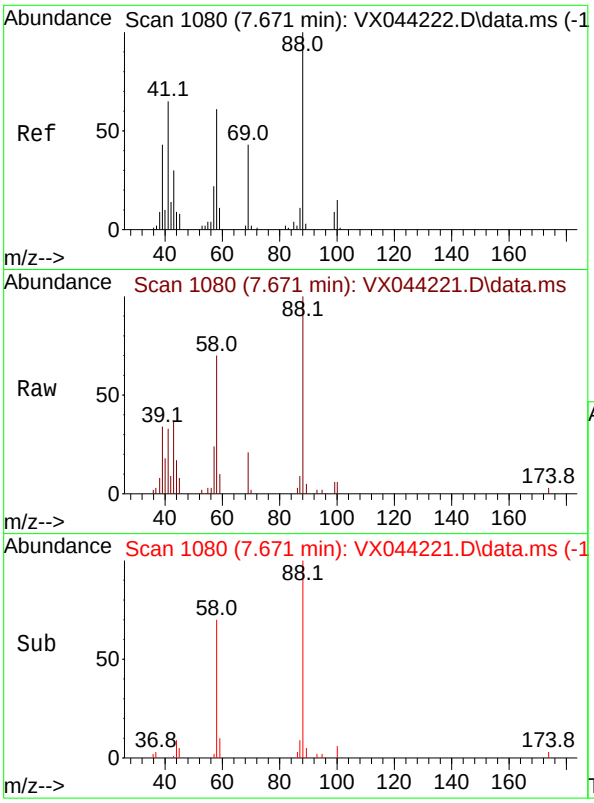


#48
Methyl methacrylate
Concen: 19.032 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 41 Resp: 40620

Ion	Ratio	Lower	Upper
41	100		
69	80.5	62.4	93.6
39	67.5	53.3	79.9



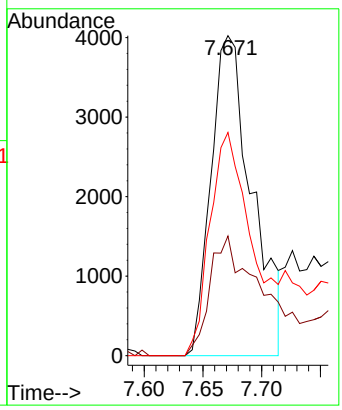


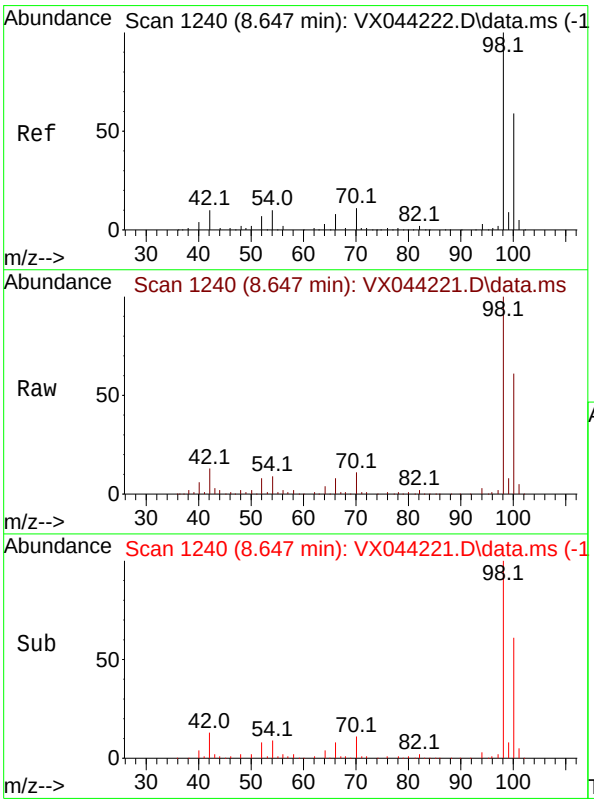
#49
1,4-Dioxane
Concen: 268.697 ug/l
RT: 7.671 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 9801

Ion	Ratio	Lower	Upper
88	100		
43	49.5	27.1	40.7#
58	72.2	41.0	61.4#

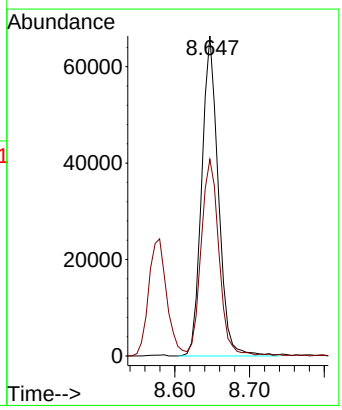


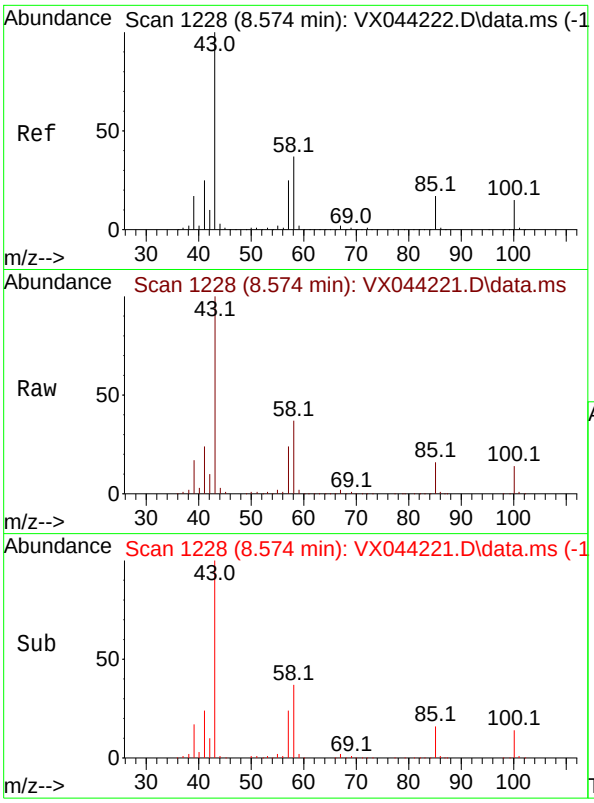


#50
Toluene-d8
Concen: 17.284 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 98 Resp: 102660

Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.5	77.3



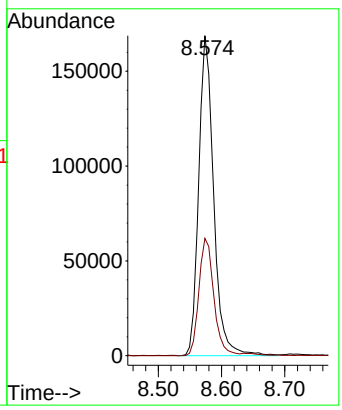


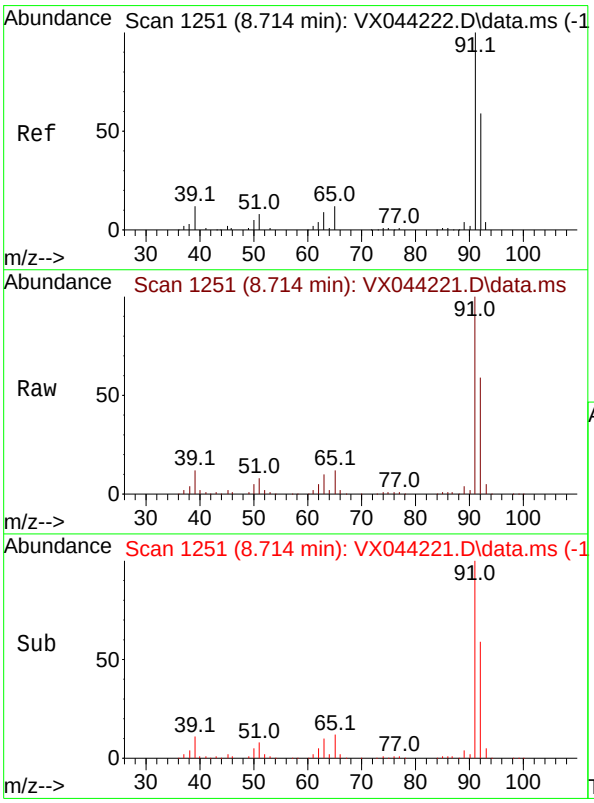
#51
4-Methyl-2-Pentanone
Concen: 98.429 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 278267

Ion	Ratio	Lower	Upper
43	100		
58	36.6	29.4	44.0

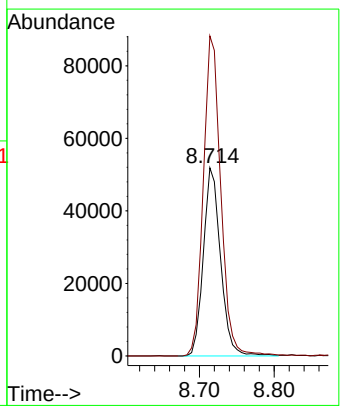


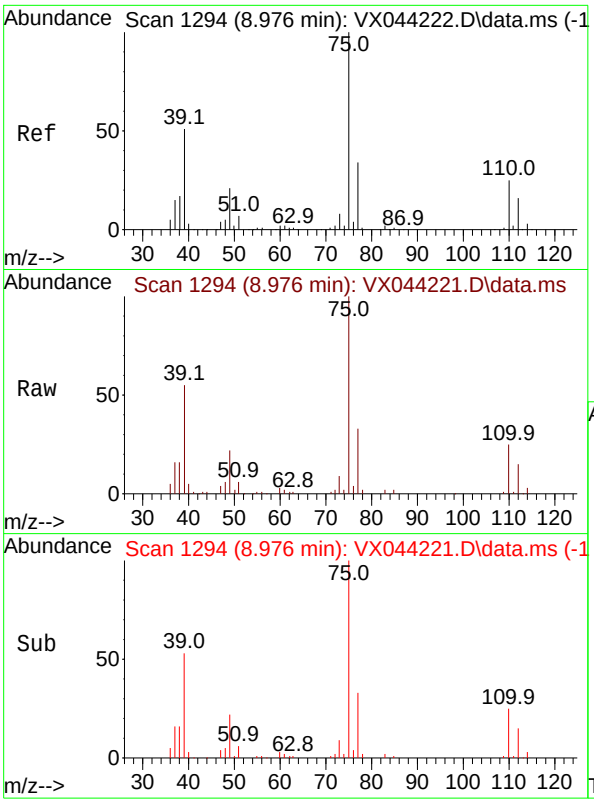


#52
Toluene
Concen: 19.113 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 92 Resp: 82934

Ion	Ratio	Lower	Upper
92	100		
91	172.9	137.0	205.6



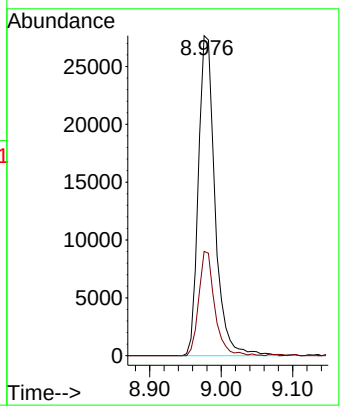


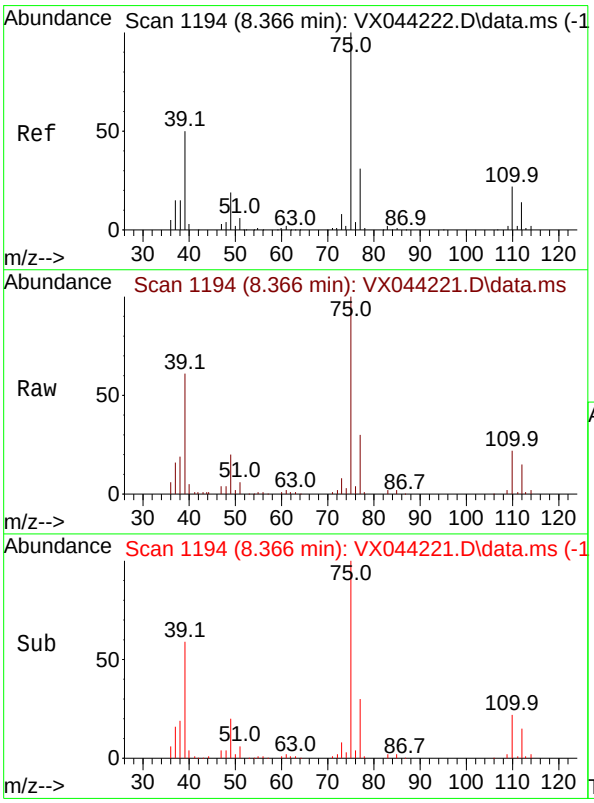
#53
t-1,3-Dichloropropene
Concen: 18.785 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 44614

Ion	Ratio	Lower	Upper
75	100		
77	32.6	27.2	40.8

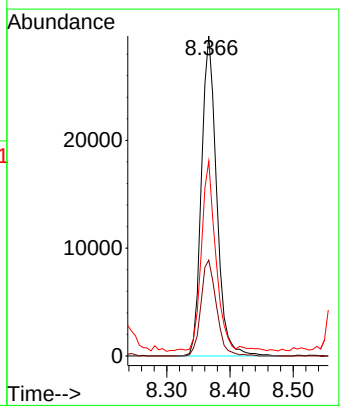


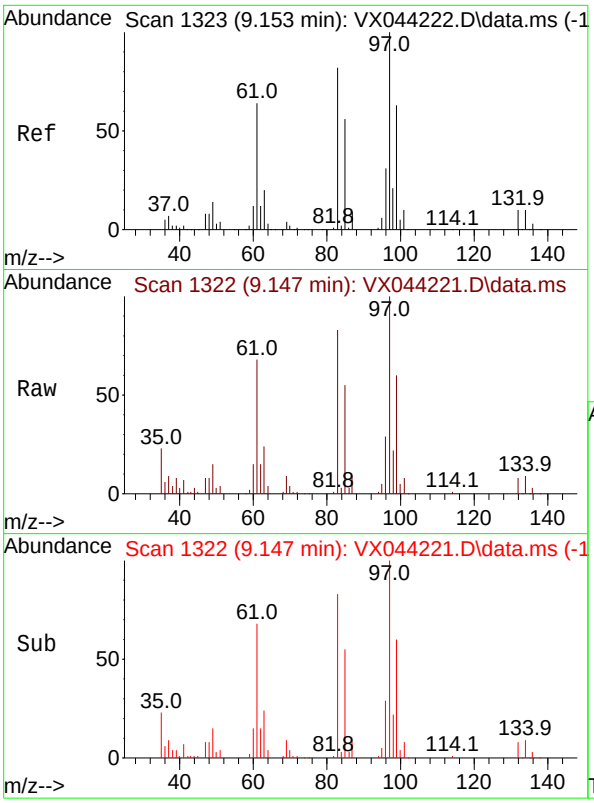


#54
cis-1,3-Dichloropropene
Concen: 19.258 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 49596

Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.7	37.1
39	59.4	40.3	60.5



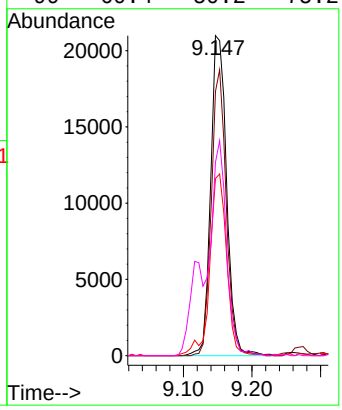


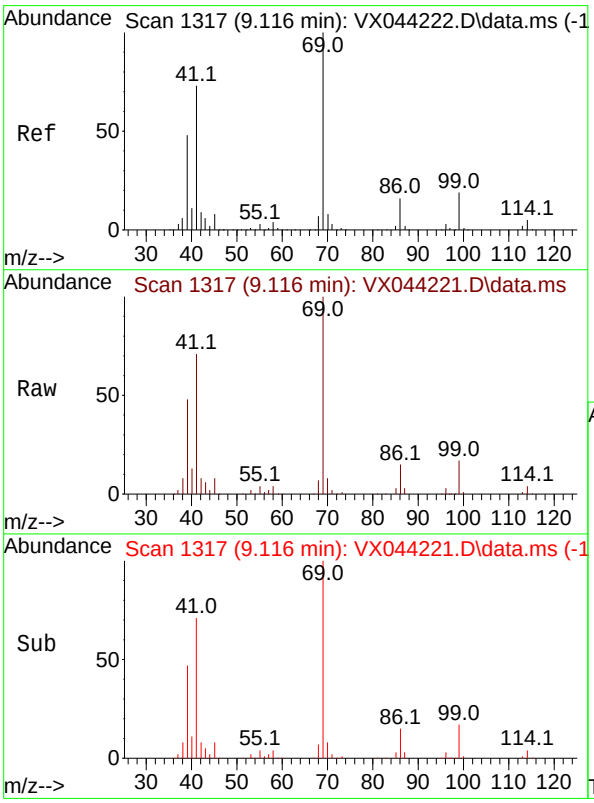
#55
1,1,2-Trichloroethane
Concen: 19.732 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 34013

Ion	Ratio	Lower	Upper
97	100		
83	82.6	65.3	97.9
85	55.3	44.6	67.0
99	60.4	50.2	75.2

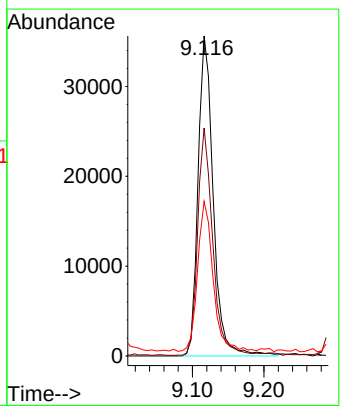


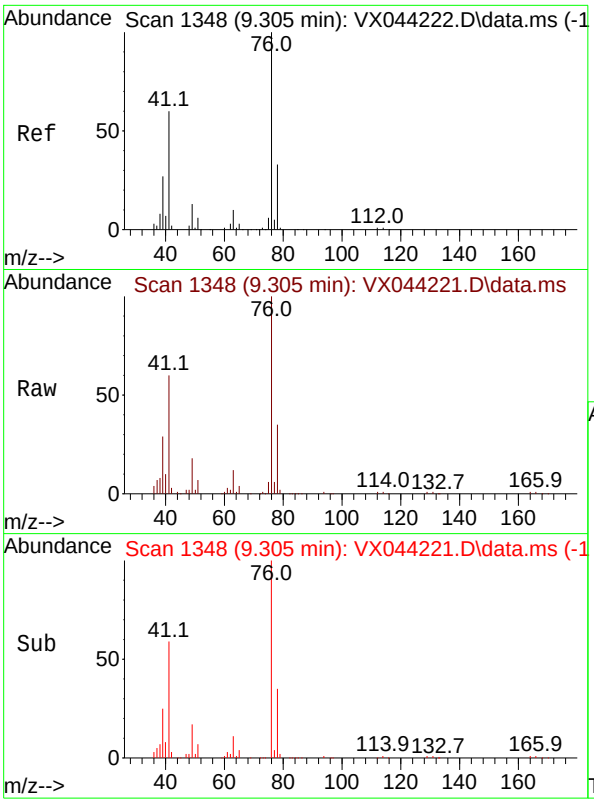


#56
Ethyl methacrylate
Concen: 19.318 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 69 Resp: 52571

Ion	Ratio	Lower	Upper
69	100		
41	70.3	56.6	85.0
39	47.8	37.4	56.0



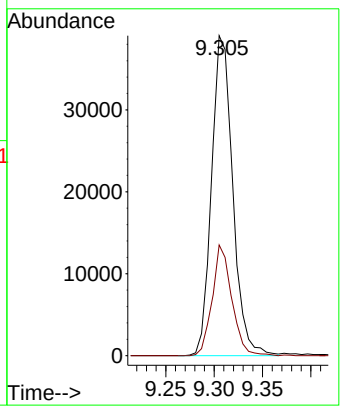


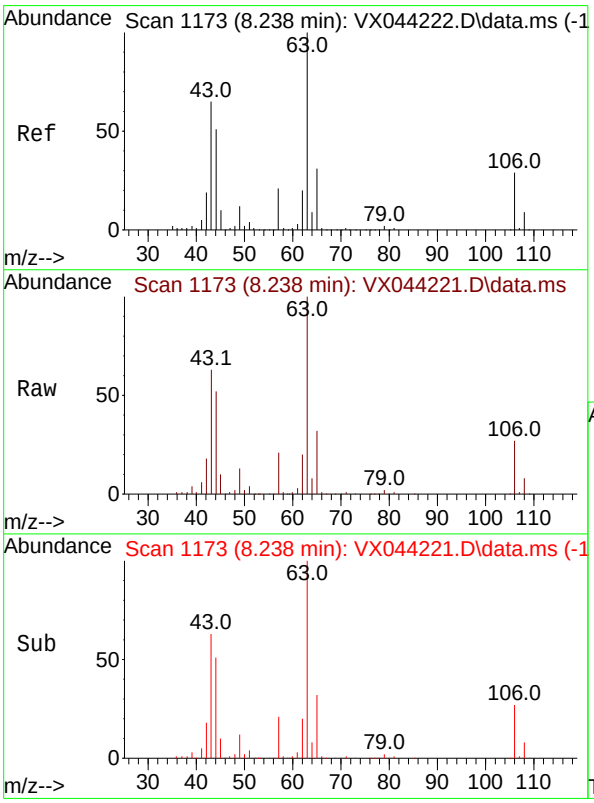
#57
1,3-Dichloropropane
Concen: 19.827 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 59489

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.5	39.7

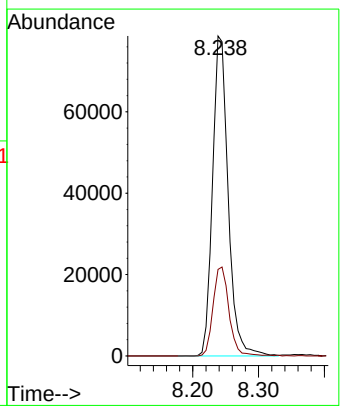


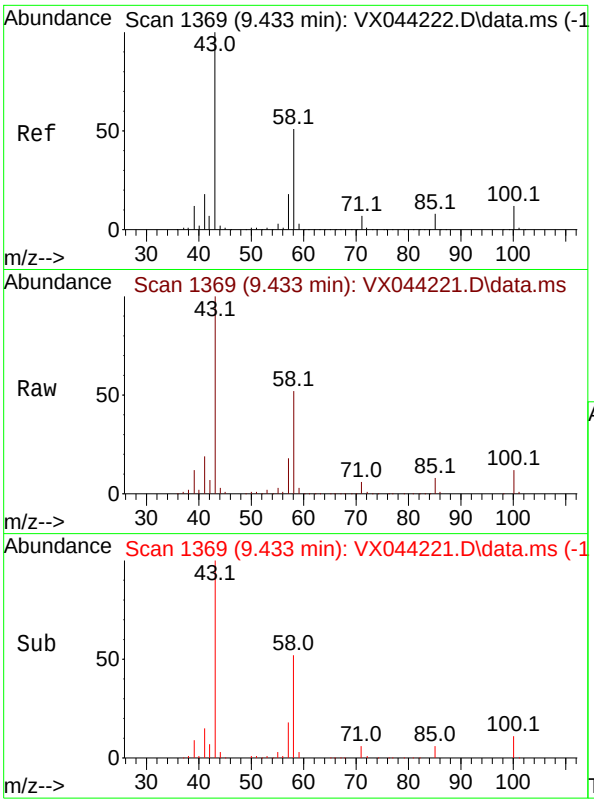


#58
2-Chloroethyl Vinyl ether
Concen: 94.642 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 63 Resp: 129900

Ion	Ratio	Lower	Upper
63	100		
106	28.4	22.8	34.2



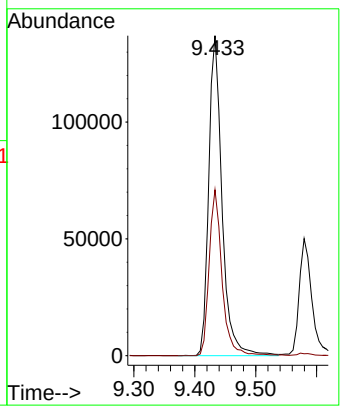


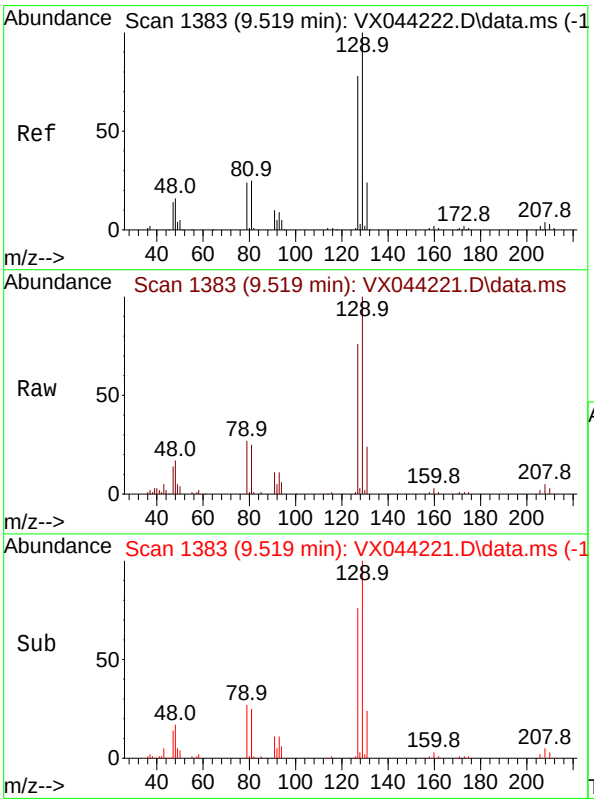
#59
2-Hexanone
Concen: 101.440 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 207578

Ion	Ratio	Lower	Upper
43	100		
58	50.4	25.7	77.0

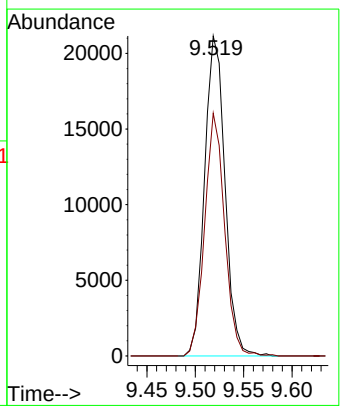


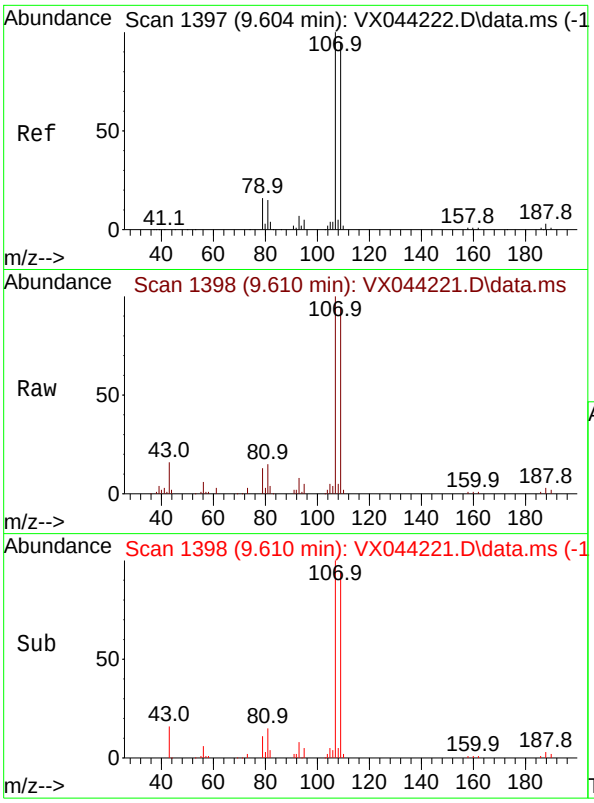


#60
Dibromochloromethane
Concen: 18.318 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:129 Resp: 31066

Ion	Ratio	Lower	Upper
129	100		
127	74.1	38.5	115.3



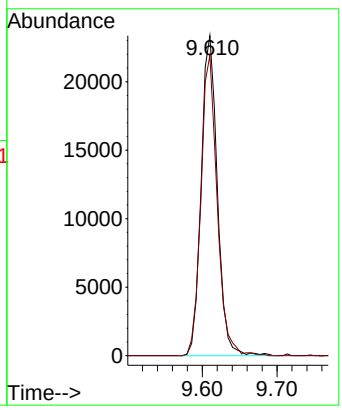


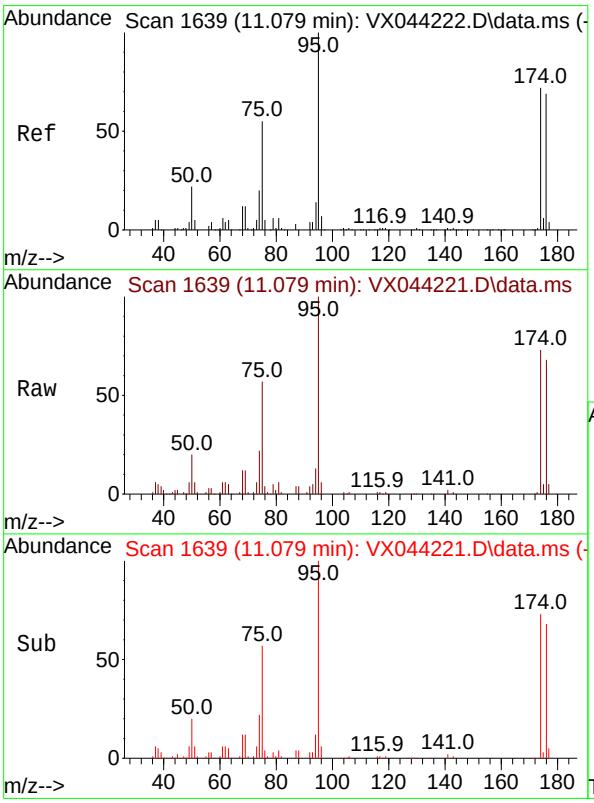
#61
1,2-Dibromoethane
Concen: 19.935 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 34978

Ion	Ratio	Lower	Upper
107	100		
109	94.4	77.0	115.4

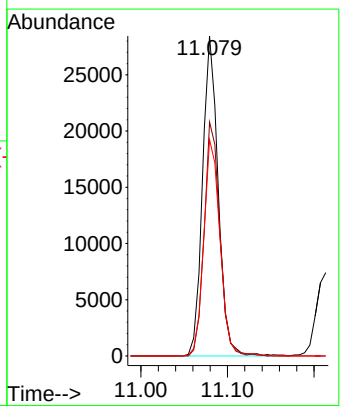


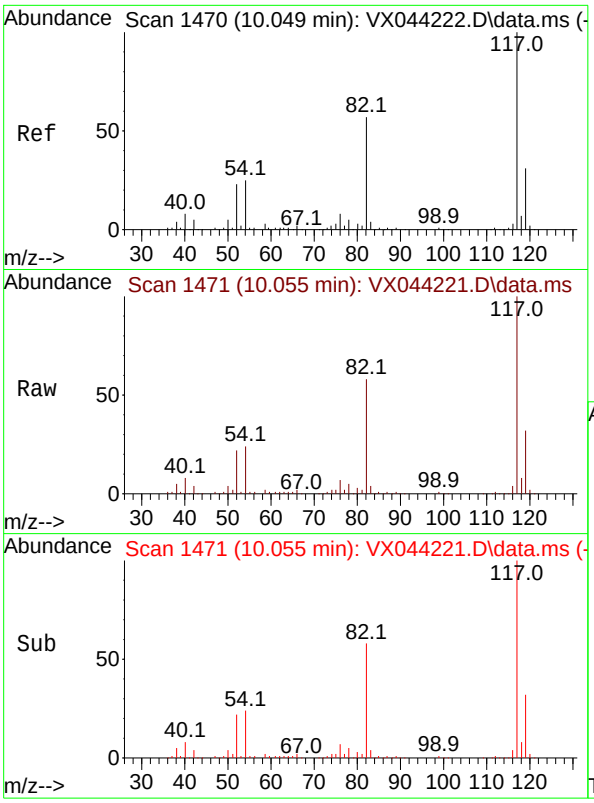


#62
4-Bromofluorobenzene
Concen: 17.175 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 95 Resp: 35645

Ion	Ratio	Lower	Upper
95	100		
174	73.3	0.0	145.8
176	70.5	0.0	137.8



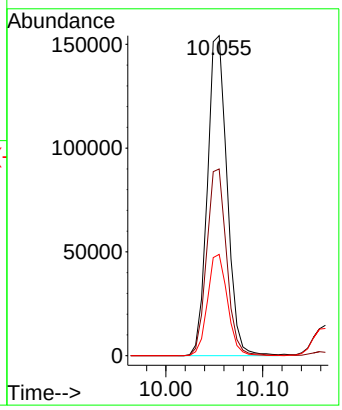


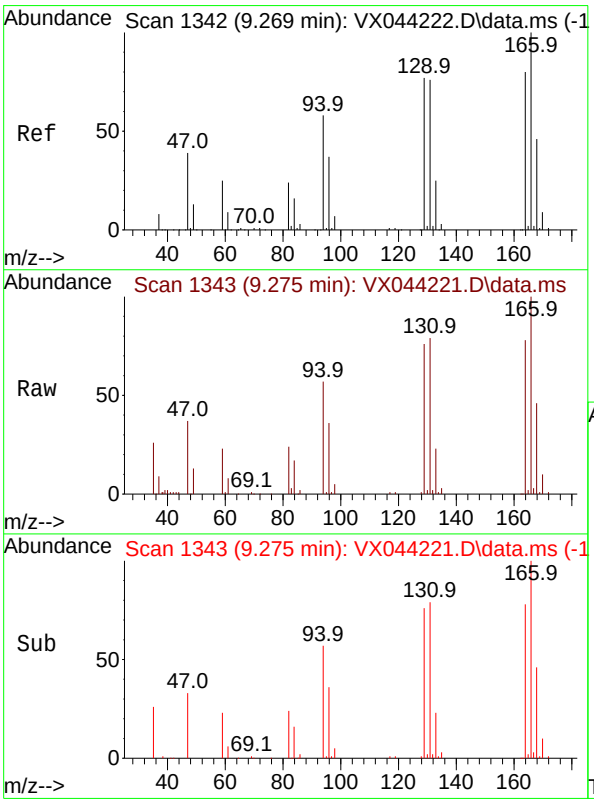
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 218148

Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.8	68.8
119	31.6	25.0	37.4

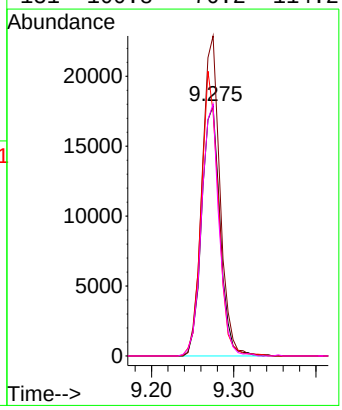


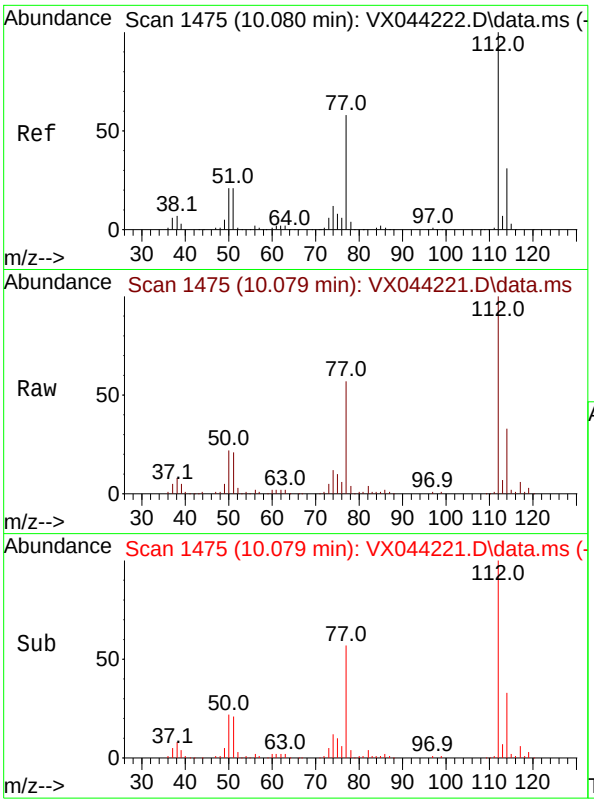


#64
Tetrachloroethene
Concen: 19.133 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:164 Resp: 27702

Ion	Ratio	Lower	Upper
164	100		
166	128.0	100.4	150.6
129	97.5	77.2	115.8
131	100.8	76.2	114.2



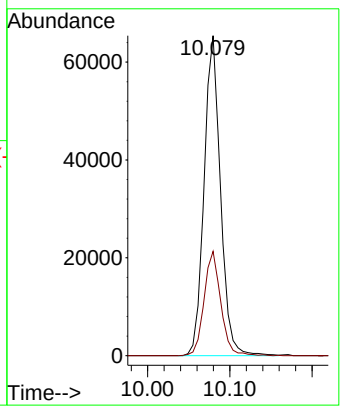


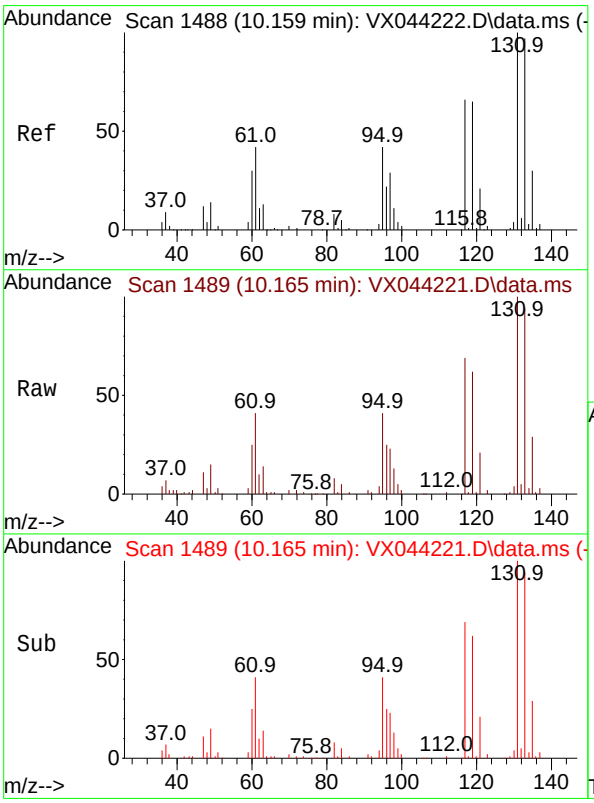
#65
Chlorobenzene
Concen: 19.389 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 90631

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.0	37.6

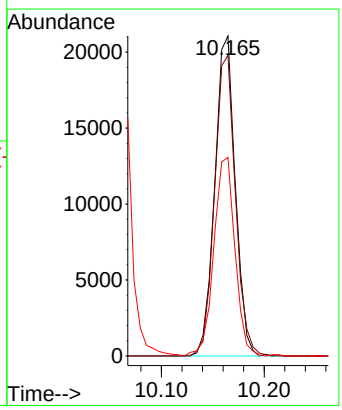


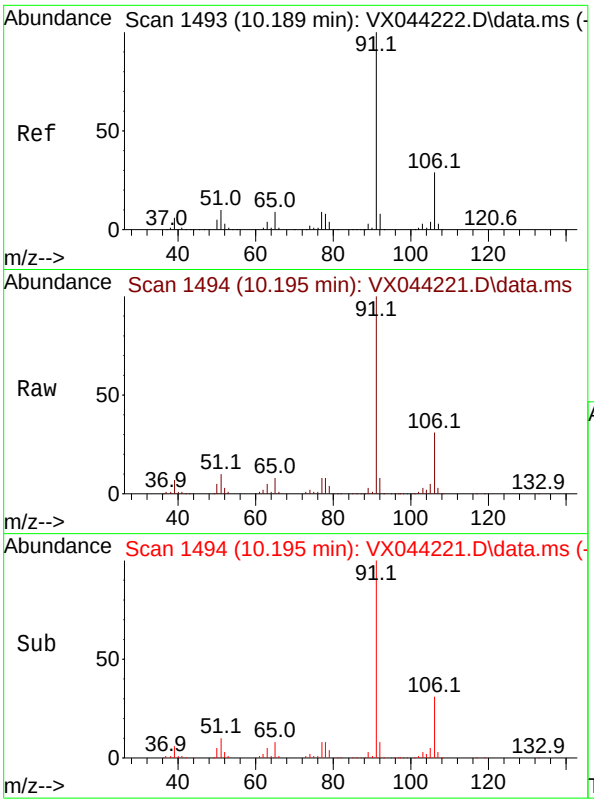


#66
1,1,1,2-Tetrachloroethane
Concen: 19.392 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:131 Resp: 29132

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.3	141.8
119	64.0	31.6	95.0



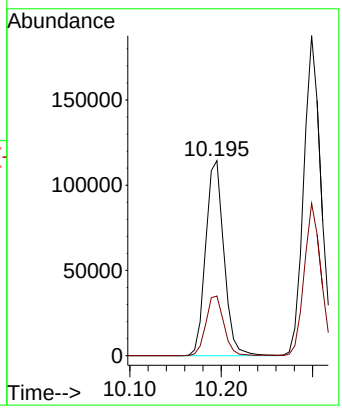


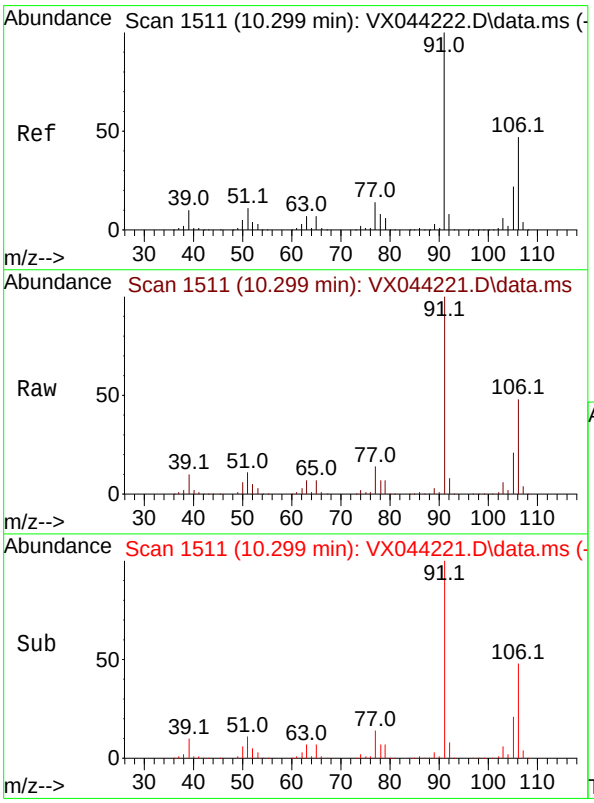
#67
Ethyl Benzene
Concen: 19.619 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 158455

Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.5	35.3

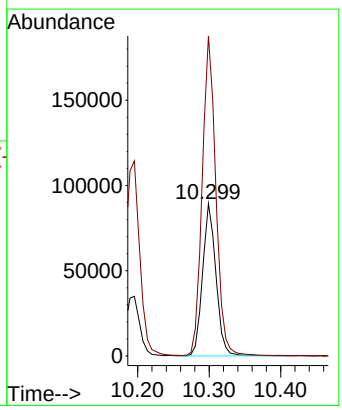


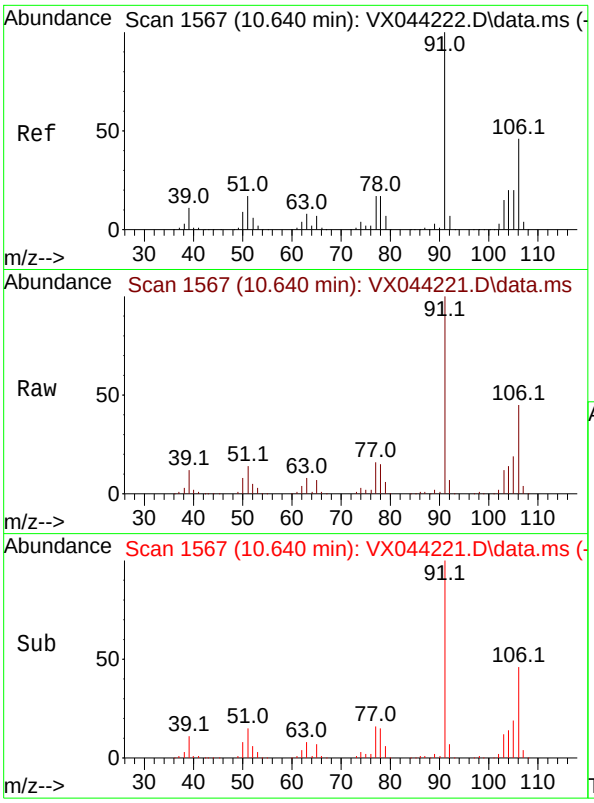


#68
m/p-Xylenes
Concen: 39.183 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:106 Resp: 116126

Ion	Ratio	Lower	Upper
106	100		
91	215.5	170.2	255.2



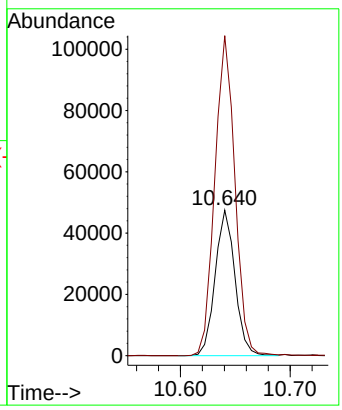


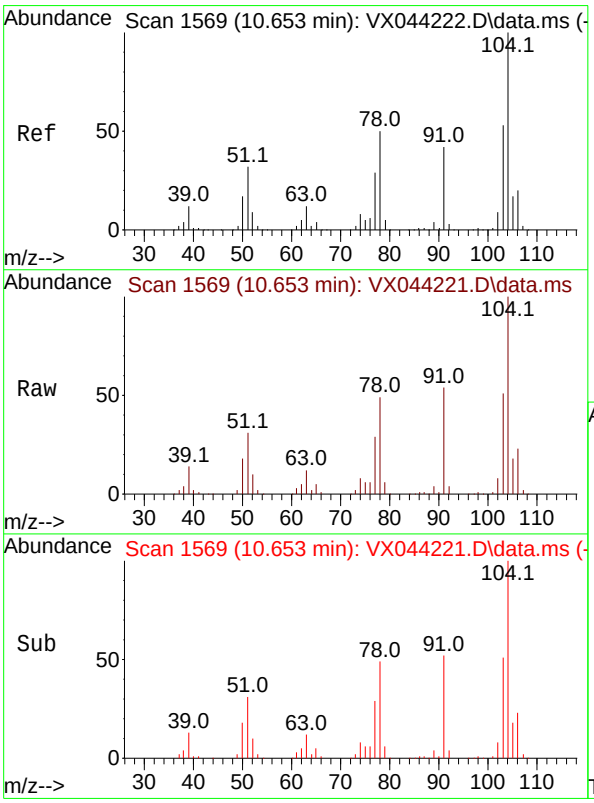
#69
o-Xylene
Concen: 19.938 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 59787

Ion	Ratio	Lower	Upper
106	100		
91	223.6	112.3	337.0

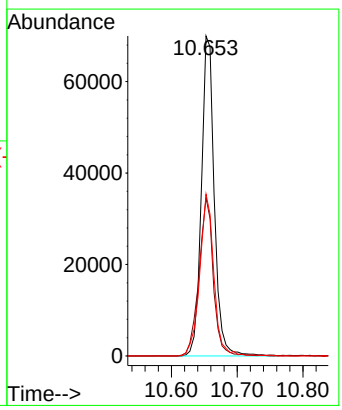


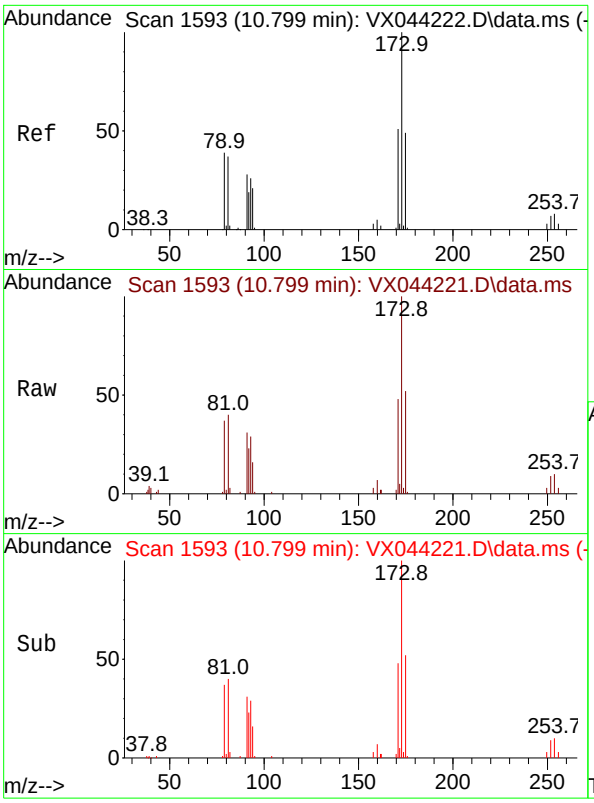


#70
Styrene
Concen: 19.946 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:104 Resp: 95883

Ion	Ratio	Lower	Upper
104	100		
78	54.7	44.6	67.0
103	55.2	45.4	68.0



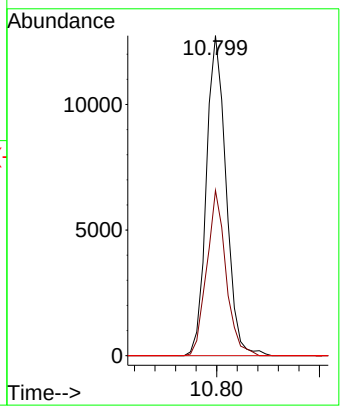


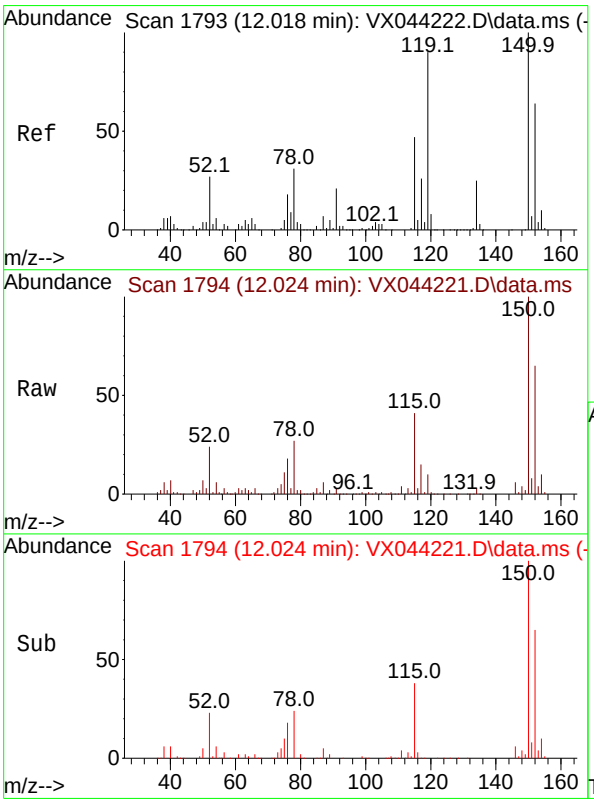
#71
Bromoform
Concen: 18.112 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 16924

Ion	Ratio	Lower	Upper
173	100		
175	50.5	23.8	71.4
254	0.0	0.0	0.0

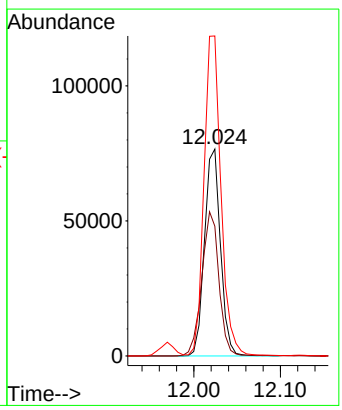


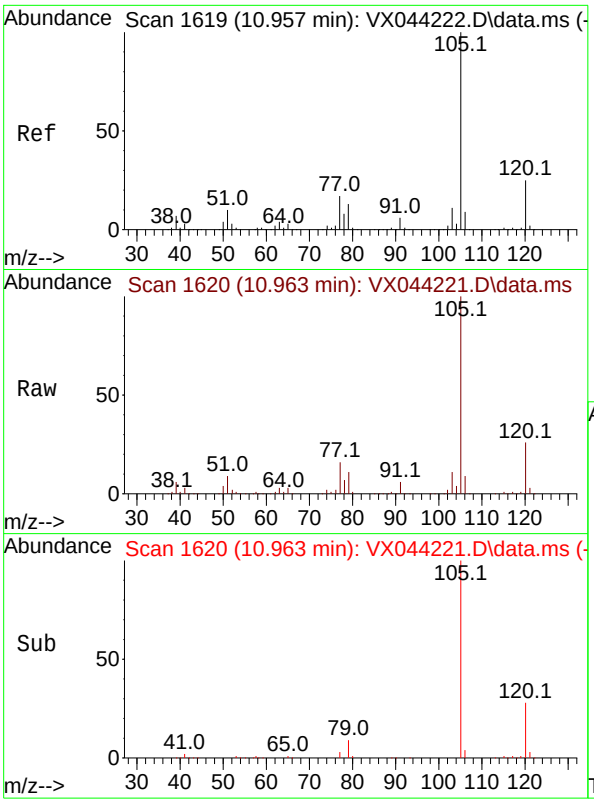


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:152 Resp: 98180

Ion	Ratio	Lower	Upper
152	100		
115	74.8	44.5	133.3
150	164.2	0.0	353.8



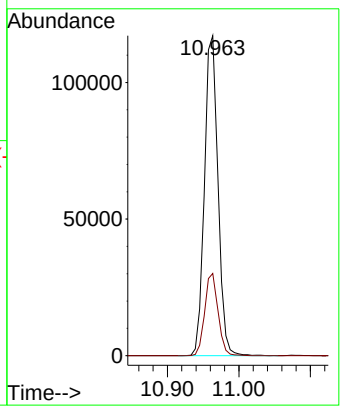


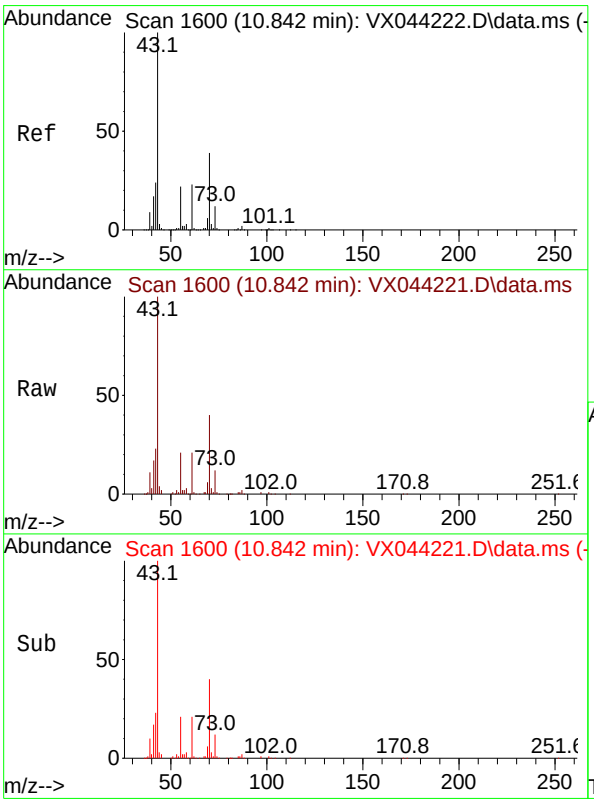
#73
Isopropylbenzene
Concen: 20.481 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 153935

Ion	Ratio	Lower	Upper
105	100		
120	25.3	13.1	39.3

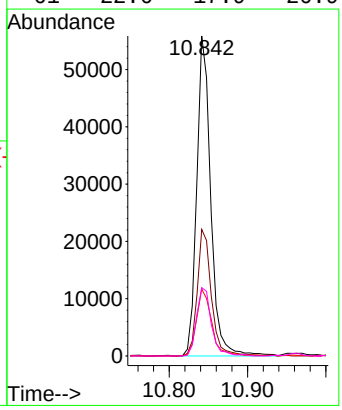


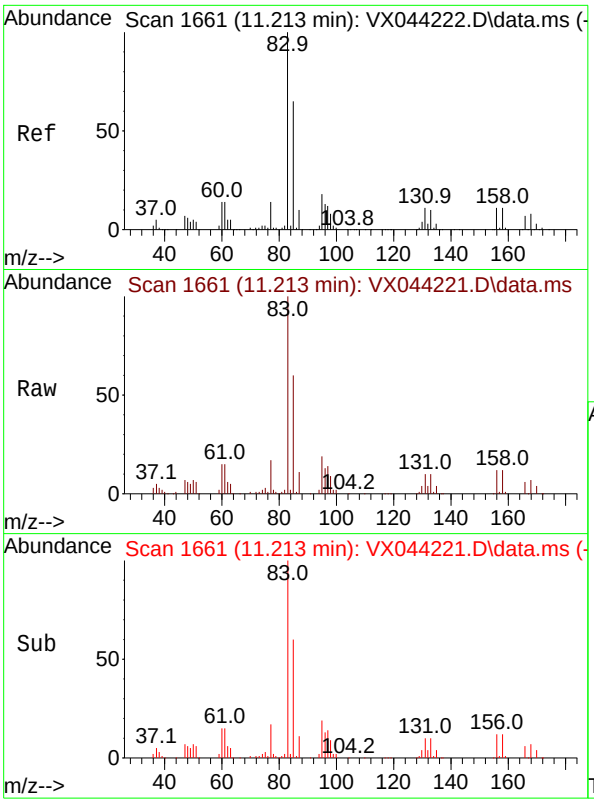


#74
N-amyl acetate
Concen: 20.049 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 69643

Ion	Ratio	Lower	Upper
43	100		
70	39.8	31.9	47.9
55	22.8	17.9	26.9
61	22.6	17.9	26.9



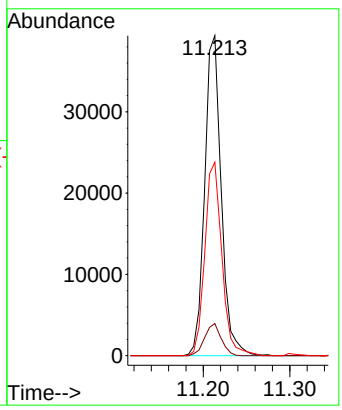


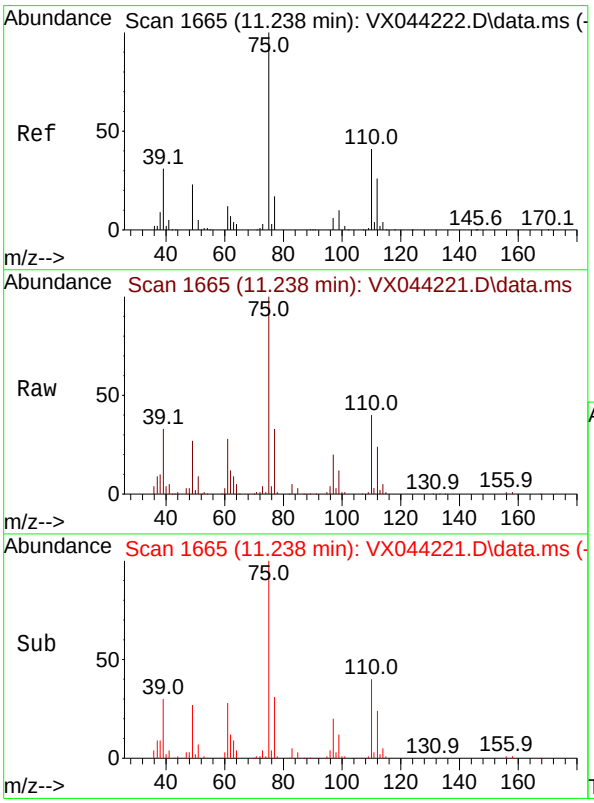
#75
1,1,2,2-Tetrachloroethane
Concen: 20.039 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 52312

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	62.1	32.5	97.4

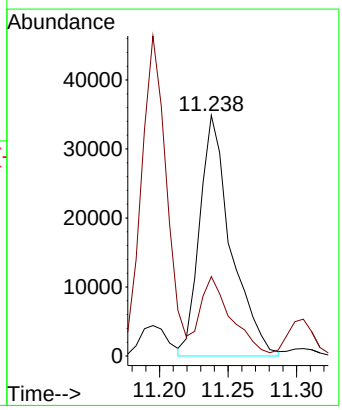


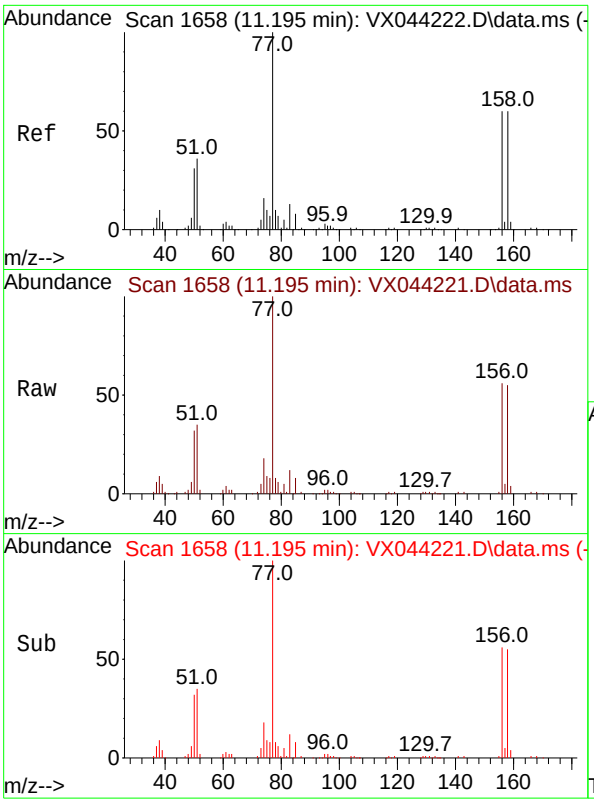


#76
1,2,3-Trichloropropane
Concen: 24.859 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 55384

Ion	Ratio	Lower	Upper
75	100		
77	33.2	20.9	62.7



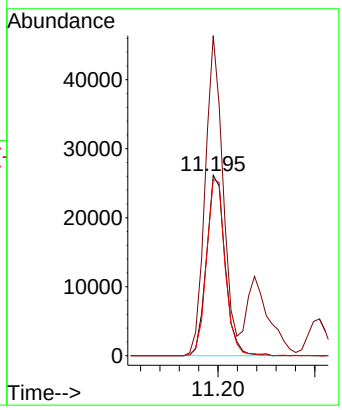


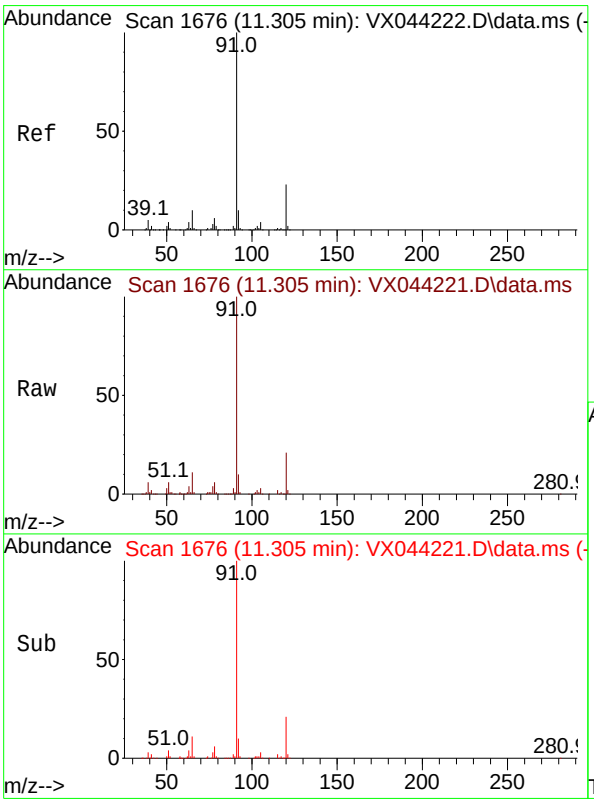
#77
Bromobenzene
Concen: 19.176 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 34951

Ion	Ratio	Lower	Upper
156	100		
77	169.4	82.6	247.8
158	98.1	48.8	146.4

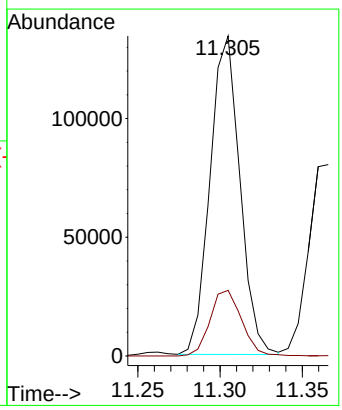


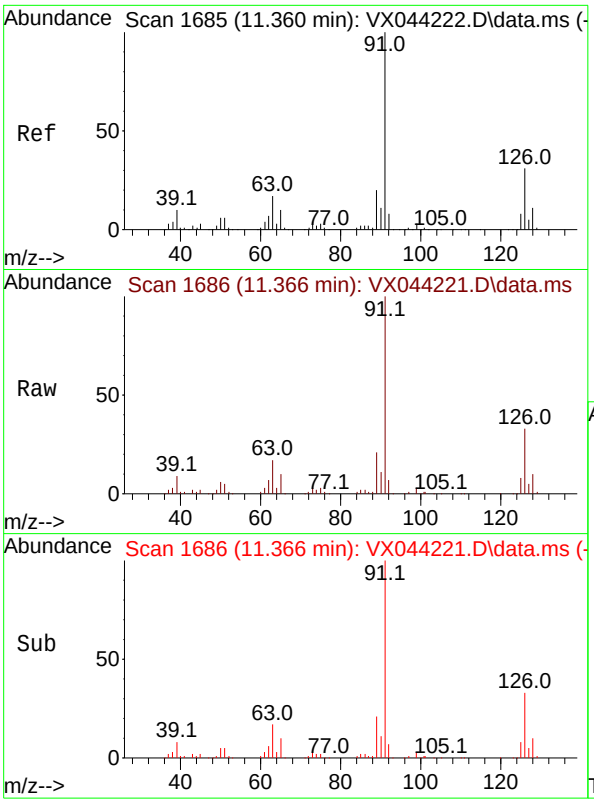


#78
n-propylbenzene
Concen: 20.419 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 91 Resp: 169622

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.0	33.0



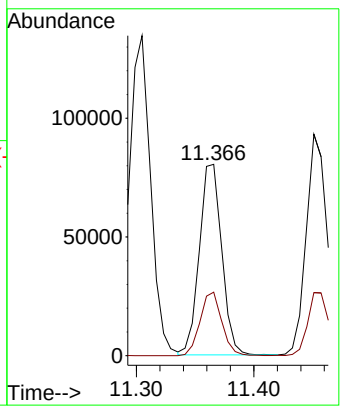


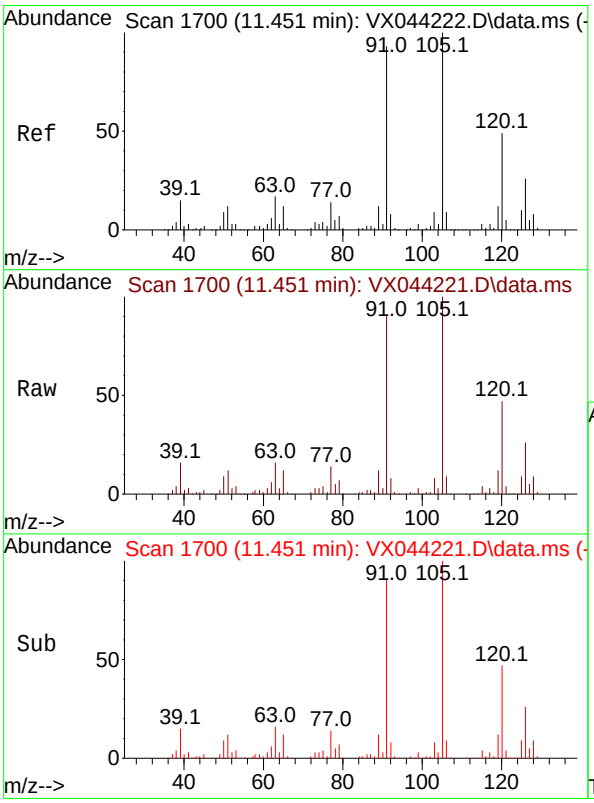
#79
2-Chlorotoluene
Concen: 19.788 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 106310

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.4	49.1

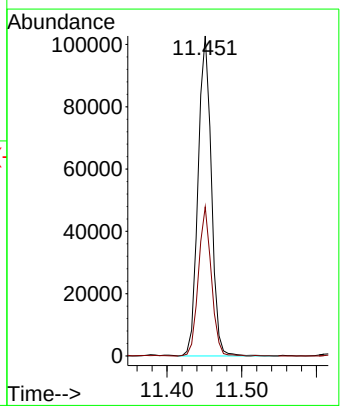


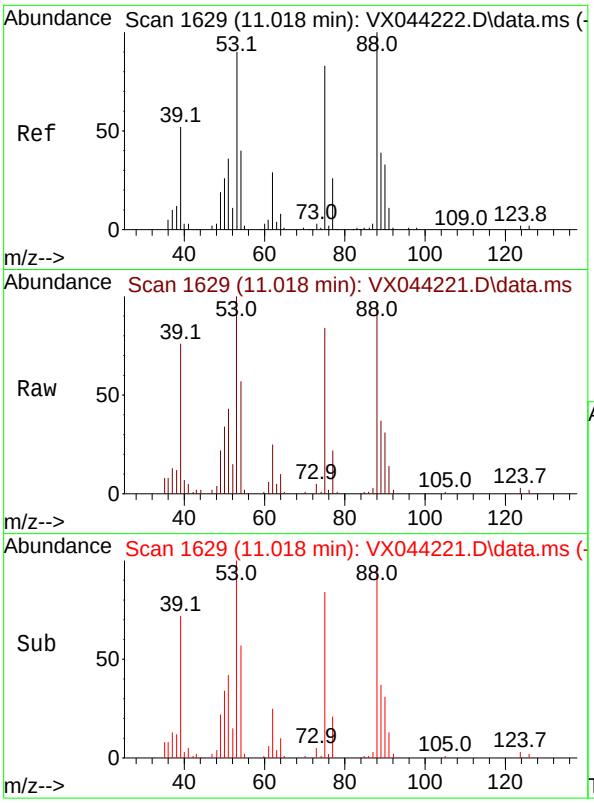


#80
1,3,5-Trimethylbenzene
Concen: 20.315 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:105 Resp: 126626

Ion	Ratio	Lower	Upper
105	100		
120	45.4	23.8	71.4



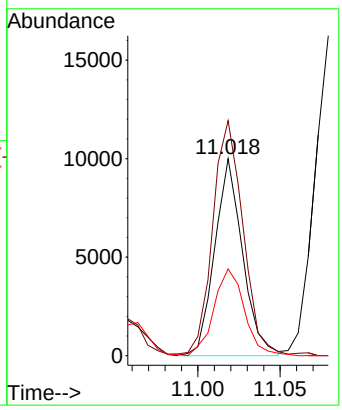


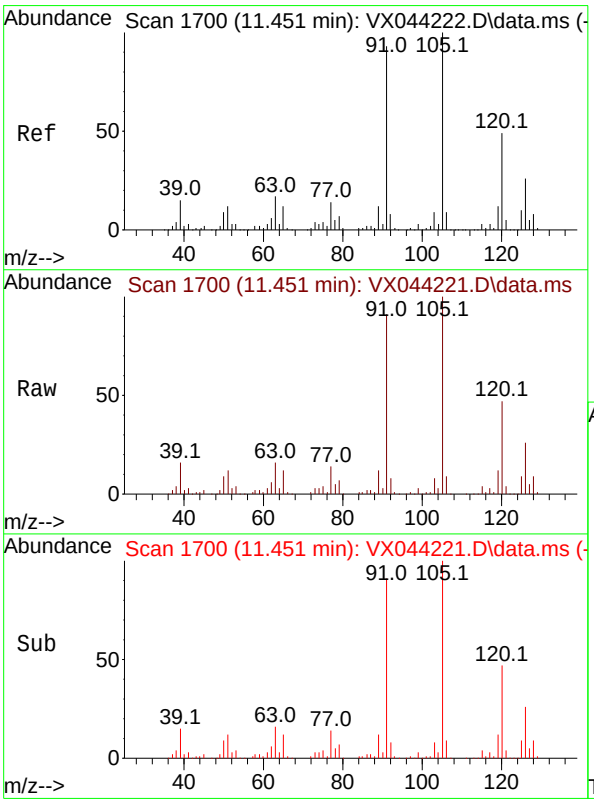
#81
trans-1,4-Dichloro-2-butene
Concen: 19.264 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 11784

Ion	Ratio	Lower	Upper
75	100		
53	130.8	93.6	140.4
89	48.1	37.3	55.9

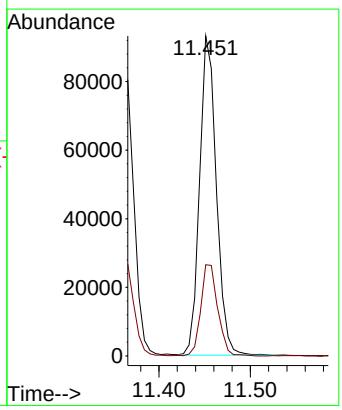


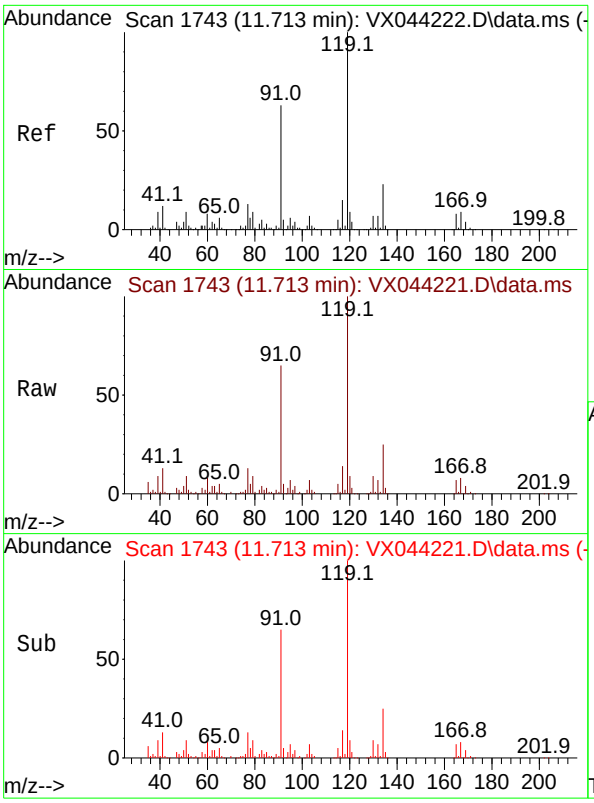


#82
4-Chlorotoluene
Concen: 19.886 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 91 Resp: 118309

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.5	43.5



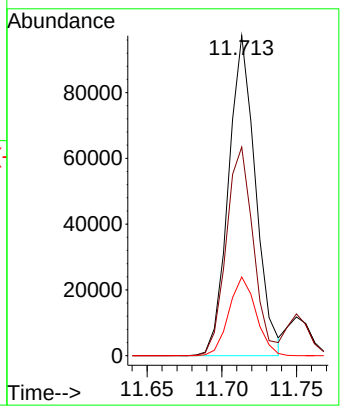


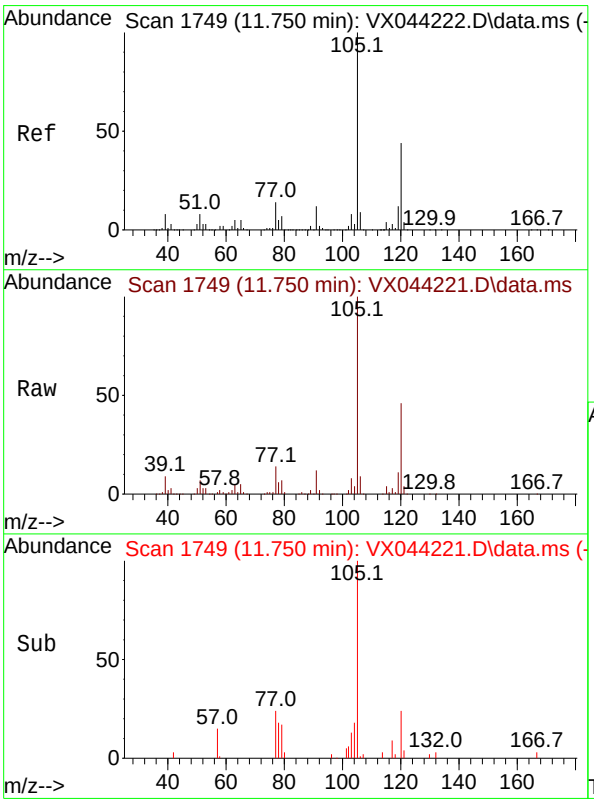
#83
tert-Butylbenzene
Concen: 19.794 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 121929

Ion	Ratio	Lower	Upper
119	100		
91	66.0	30.9	92.5
134	24.8	11.5	34.4

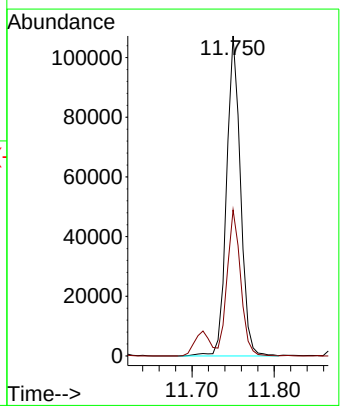


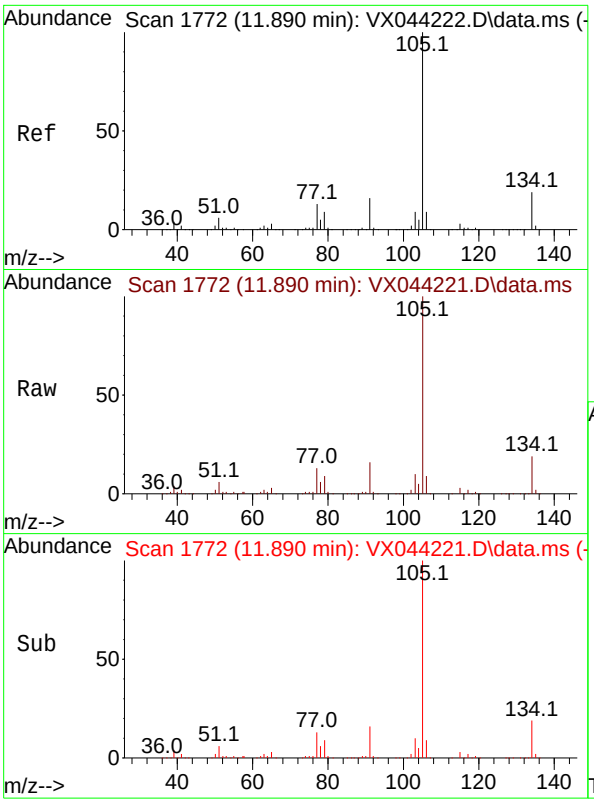


#84
1,2,4-Trimethylbenzene
Concen: 20.574 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:105 Resp: 125939

Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.7	65.1



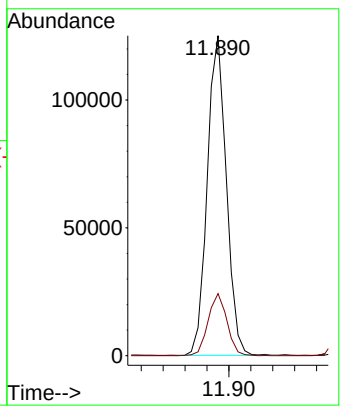


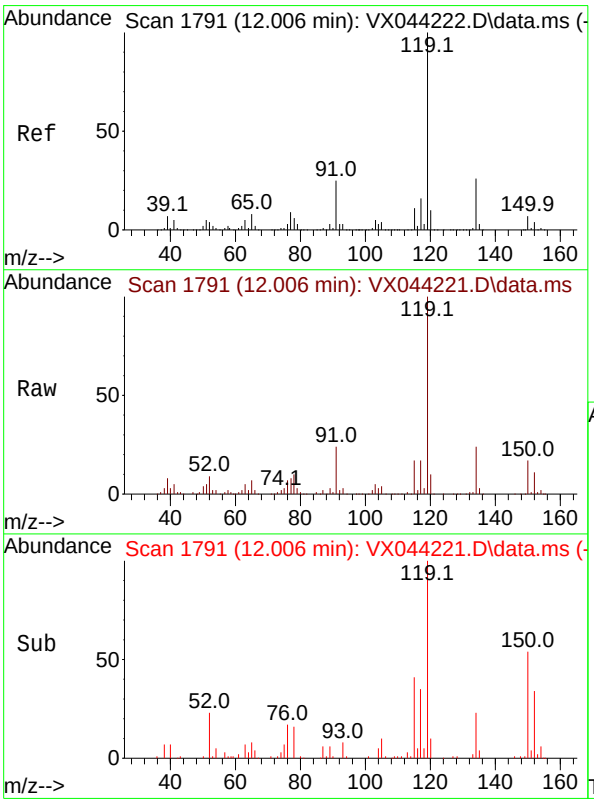
#85
sec-Butylbenzene
Concen: 20.165 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 150795

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.4

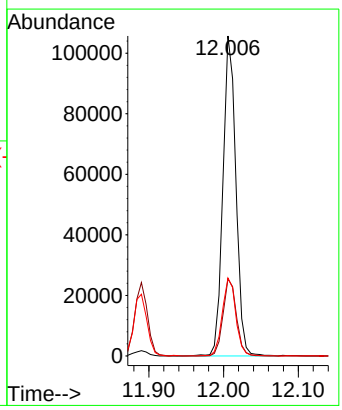


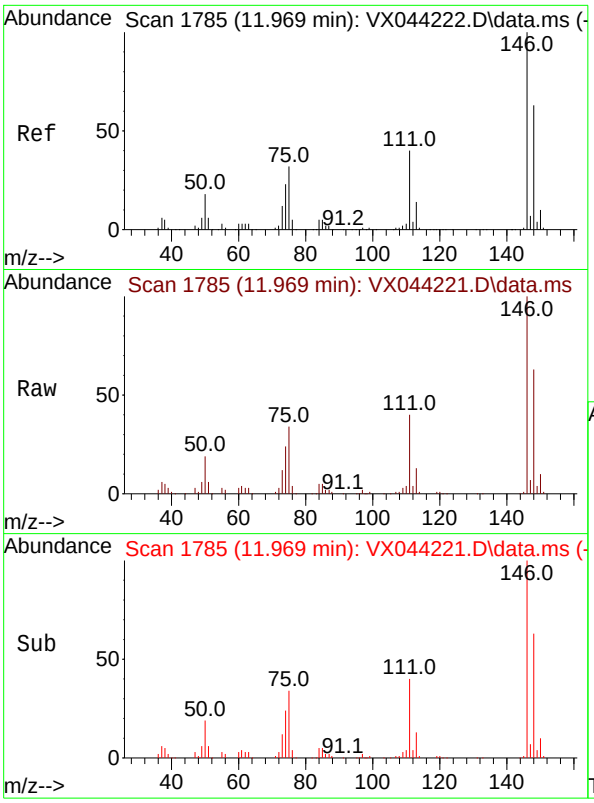


#86
p-Isopropyltoluene
Concen: 20.532 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:119 Resp: 127790

Ion	Ratio	Lower	Upper
119	100		
134	24.6	12.8	38.4
91	25.4	13.0	39.0



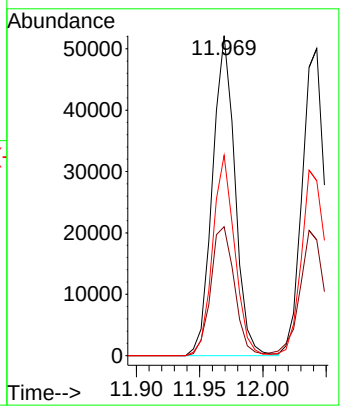


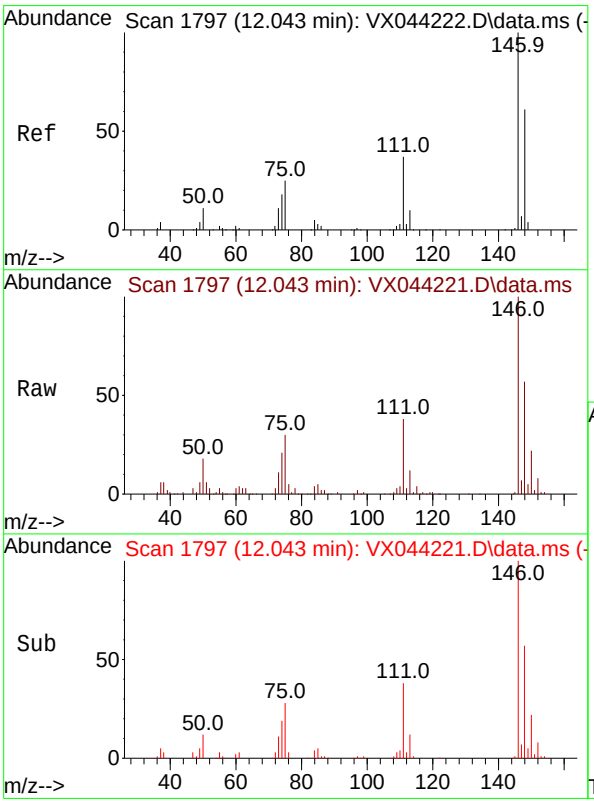
#87
1,3-Dichlorobenzene
Concen: 20.228 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 64399

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.4	64.2
148	61.4	31.7	95.1

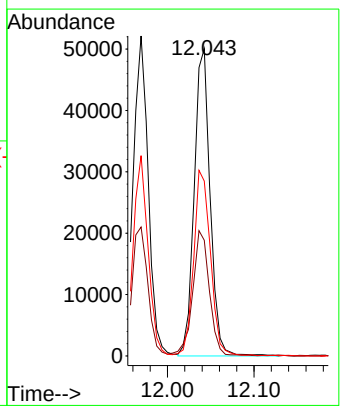


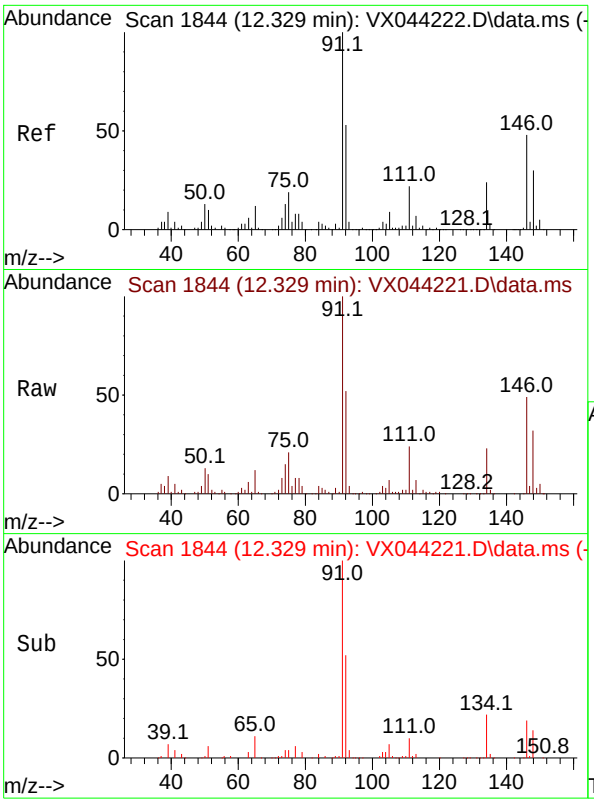


#88
1,4-Dichlorobenzene
Concen: 19.588 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:146 Resp: 64106

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.0	63.0
148	63.2	32.3	96.8



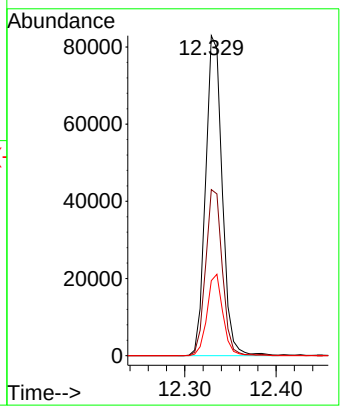


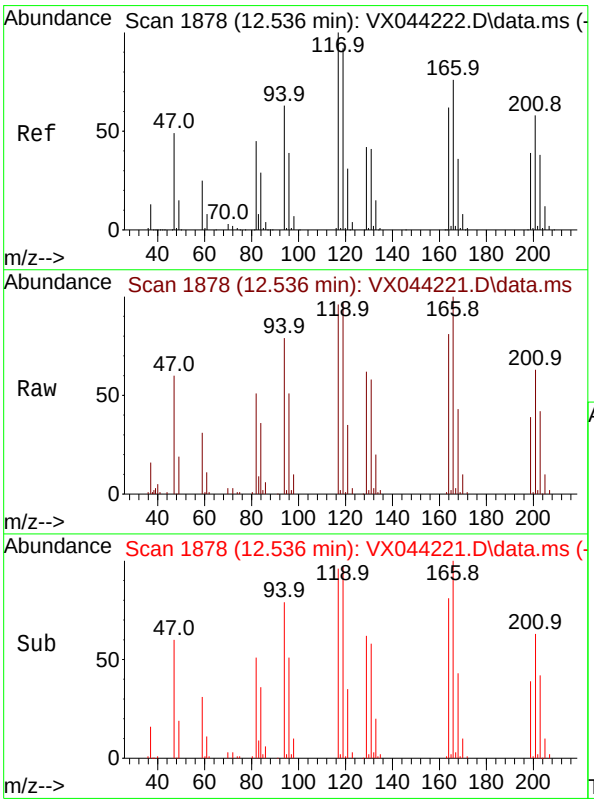
#89
n-Butylbenzene
Concen: 19.950 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 104410

Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.6	79.7
134	24.4	12.6	37.8

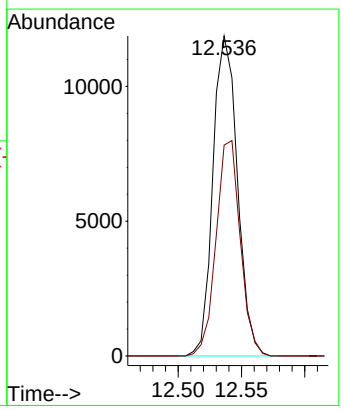


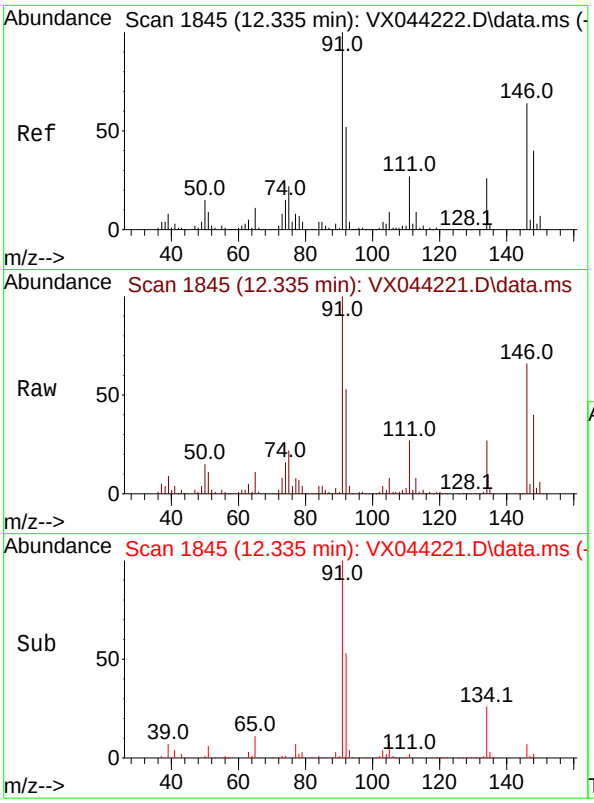


#90
Hexachloroethane
Concen: 17.543 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:117 Resp: 15939

Ion	Ratio	Lower	Upper
117	100		
201	66.8	31.4	94.2



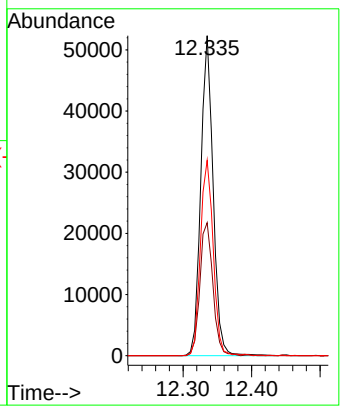


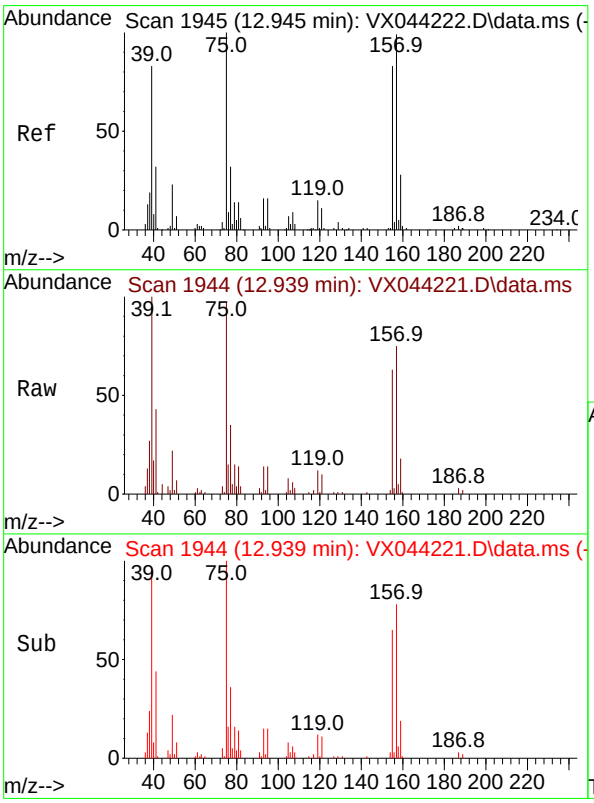
#91
1,2-Dichlorobenzene
Concen: 19.817 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 65511

Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.4	64.3
148	63.5	31.6	95.0

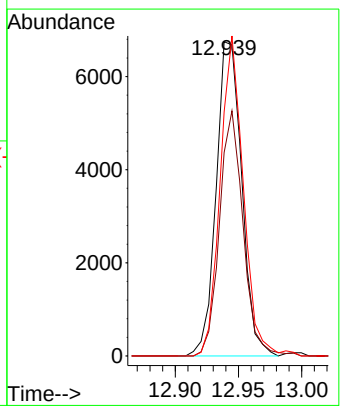


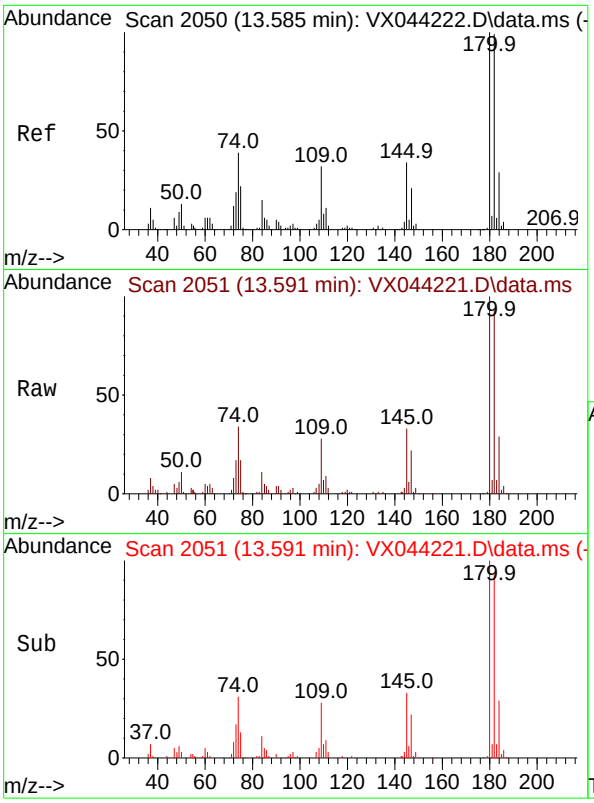


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.683 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 9468

Ion	Ratio	Lower	Upper
75	100		
155	72.1	38.1	114.3
157	92.2	47.2	141.6



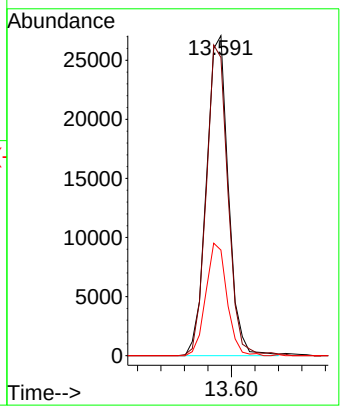


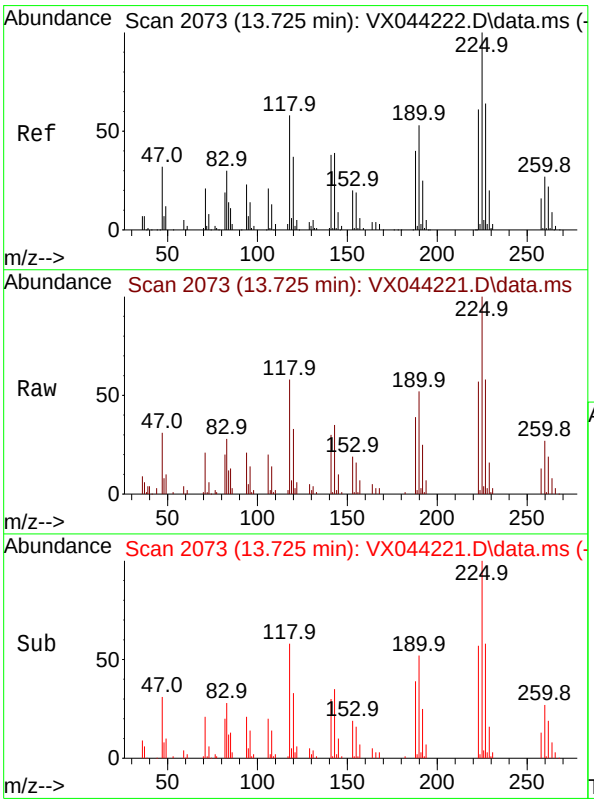
#93
1,2,4-Trichlorobenzene
Concen: 19.313 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 35001

Ion	Ratio	Lower	Upper
180	100		
182	95.7	48.0	144.2
145	33.9	16.6	49.7

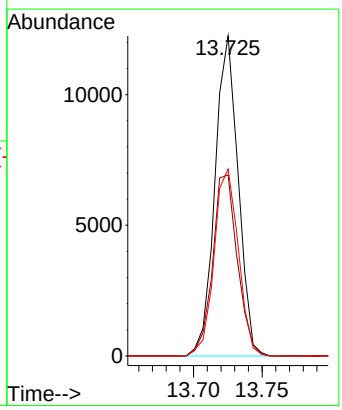


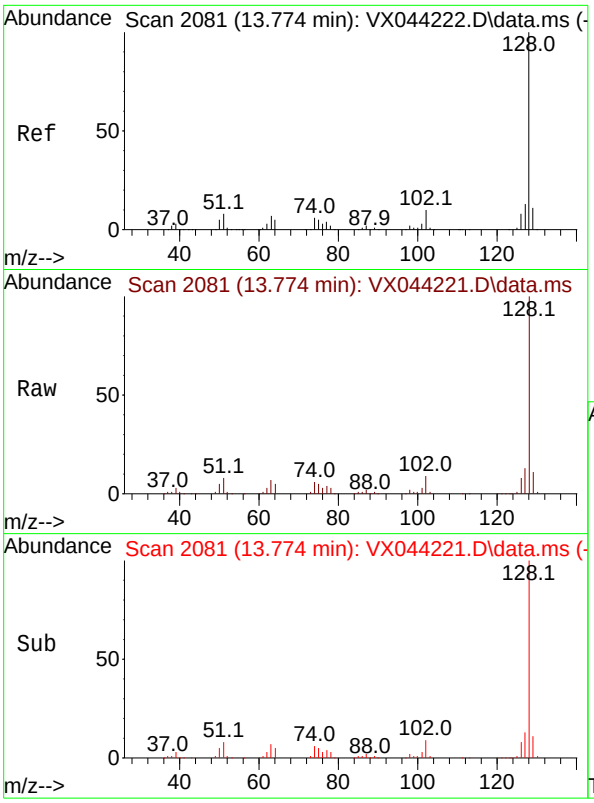


#94
Hexachlorobutadiene
Concen: 19.774 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:225 Resp: 14415

Ion	Ratio	Lower	Upper
225	100		
223	60.5	30.8	92.4
227	60.9	32.1	96.3



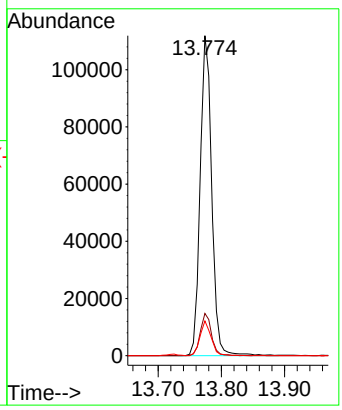


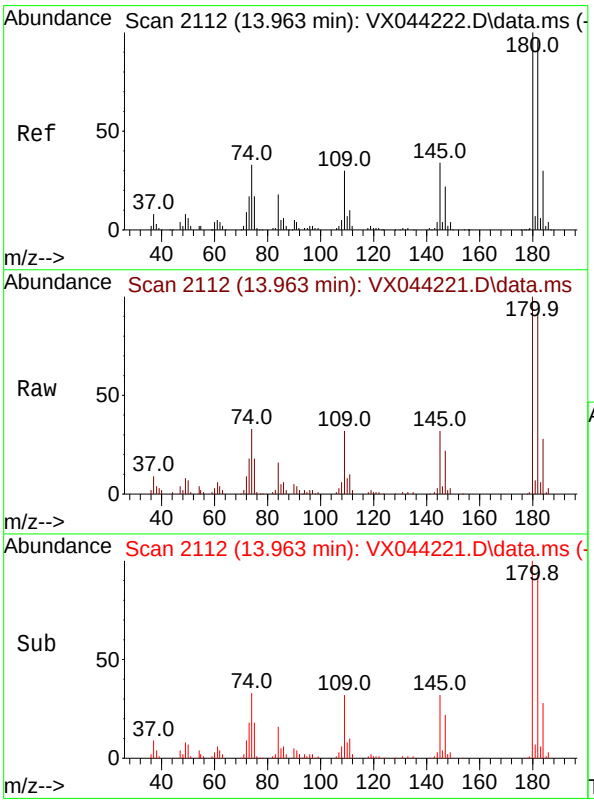
#95
Naphthalene
Concen: 20.146 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 142515

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.4	9.0	13.4

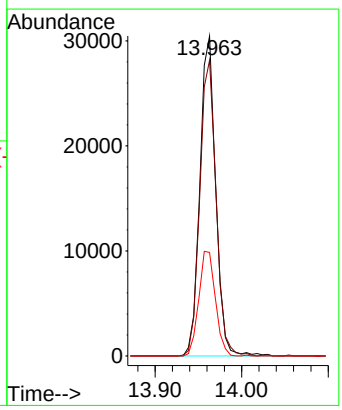




#96
1,2,3-Trichlorobenzene
Concen: 20.101 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:180 Resp: 38639

Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.0	144.0
145	34.3	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	125713	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	233488	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	205196	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95227	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	115815	52.544	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.080%			
35) Dibromofluoromethane	5.385	113	85656	52.968	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.940%			
50) Toluene-d8	8.647	98	292199	53.559	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.120%			
62) 4-Bromofluorobenzene	11.079	95	103178	54.123	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	99052	50.957	ug/l	100
3) Chloromethane	1.295	50	94981	51.097	ug/l	100
4) Vinyl Chloride	1.374	62	98852	51.045	ug/l	100
5) Bromomethane	1.593	94	69250	50.405	ug/l	100
6) Chloroethane	1.666	64	66862	55.448	ug/l	100
7) Trichlorofluoromethane	1.868	101	193676	51.086	ug/l	100
8) Diethyl Ether	2.136	74	64542	49.875	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	77275	50.371	ug/l	100
10) Methyl Iodide	2.441	142	106509	52.678	ug/l	100
11) Tert butyl alcohol	2.995	59	80988	261.121	ug/l	98
12) 1,1-Dichloroethene	2.307	96	74884	53.143	ug/l	100
13) Acrolein	2.239	56	116171	258.347	ug/l	100
14) Allyl chloride	2.654	41	126925	54.079	ug/l	100
15) Acrylonitrile	3.069	53	225330	261.859	ug/l	100
16) Acetone	2.392	43	239661	266.704	ug/l	100
17) Carbon Disulfide	2.502	76	144624	53.994	ug/l	100
18) Methyl Acetate	2.709	43	119808	51.710	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	289735	52.691	ug/l	100
20) Methylene Chloride	2.782	84	86593	51.305	ug/l	100
21) trans-1,2-Dichloroethene	3.081	96	77834	51.974	ug/l	100
22) Diisopropyl ether	3.764	45	273039	51.662	ug/l	100
23) Vinyl Acetate	3.721	43	1202044	279.754	ug/l	100
24) 1,1-Dichloroethane	3.605	63	156412	53.093	ug/l	100
25) 2-Butanone	4.562	43	344663	269.797	ug/l	100
26) 2,2-Dichloropropane	4.465	77	131428	54.914	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	97013	51.007	ug/l	100
28) Bromochloromethane	4.898	49	74477	51.555	ug/l	100
29) Tetrahydrofuran	5.007	42	212103	258.669	ug/l	100
30) Chloroform	5.087	83	168864	51.017	ug/l	100
31) Cyclohexane	5.465	56	122841	51.637	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	147834	53.806	ug/l	100
36) 1,1-Dichloropropene	5.690	75	103760	49.638	ug/l	100
37) Ethyl Acetate	4.721	43	135753	52.537	ug/l	100
38) Carbon Tetrachloride	5.672	117	117076	52.023	ug/l	100
39) Methylcyclohexane	7.373	83	129697	51.901	ug/l	100
40) Benzene	6.031	78	329154	51.863	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	70427	51.329	ug/l		100
42) 1,2-Dichloroethane	6.086	62	136309	52.138	ug/l		100
43) Isopropyl Acetate	6.342	43	213891	52.961	ug/l		100
44) Trichloroethene	7.123	130	81542	51.521	ug/l		100
45) 1,2-Dichloropropane	7.428	63	83376	51.420	ug/l		100
46) Dibromomethane	7.580	93	66786	53.092	ug/l		100
47) Bromodichloromethane	7.824	83	118634	54.607	ug/l		100
48) Methyl methacrylate	7.696	41	103726	52.909	ug/l		100
49) 1,4-Dioxane	7.671	88	28266	843.658	ug/l	#	77
51) 4-Methyl-2-Pentanone	8.574	43	688666	265.203	ug/l		100
52) Toluene	8.714	92	204738	51.370	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	120007	51.362	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	132286	55.923	ug/l		100
55) 1,1,2-Trichloroethane	9.153	97	83488	52.729	ug/l		100
56) Ethyl methacrylate	9.116	69	134770	53.917	ug/l		100
57) 1,3-Dichloropropane	9.305	76	143044	51.904	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	342592	271.745	ug/l		100
59) 2-Hexanone	9.433	43	512906	272.881	ug/l		100
60) Dibromochloromethane	9.519	129	86352	51.400	ug/l		100
61) 1,2-Dibromoethane	9.604	107	86150	53.454	ug/l		100
64) Tetrachloroethene	9.269	164	65888	48.379	ug/l		100
65) Chlorobenzene	10.080	112	223269	50.779	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	76867	54.396	ug/l		100
67) Ethyl Benzene	10.189	91	395430	52.050	ug/l		100
68) m/p-Xylenes	10.299	106	290181	104.094	ug/l		100
69) o-Xylene	10.640	106	144247	51.141	ug/l		100
70) Styrene	10.653	104	238379	52.719	ug/l		100
71) Bromoform	10.799	173	50667	51.158	ug/l	#	100
73) Isopropylbenzene	10.957	105	372519	51.100	ug/l		100
74) N-amyl acetate	10.842	43	182491	54.166	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	127193	50.233	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	139805	64.698	ug/l		85
77) Bromobenzene	11.195	156	89687	50.734	ug/l		100
78) n-propylbenzene	11.305	91	428741	53.211	ug/l		100
79) 2-Chlorotoluene	11.360	91	263849	50.634	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	314986	52.102	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	35119	47.628	ug/l		100
82) 4-Chlorotoluene	11.451	91	296520	51.387	ug/l		100
83) tert-Butylbenzene	11.713	119	310320	51.940	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	313338	52.776	ug/l		100
85) sec-Butylbenzene	11.890	105	379552	52.329	ug/l		100
86) p-Isopropyltoluene	12.006	119	318721	52.796	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	160223	51.887	ug/l		100
88) 1,4-Dichlorobenzene	12.043	146	159258	50.171	ug/l		100
89) n-Butylbenzene	12.329	91	270840	53.354	ug/l		100
90) Hexachloroethane	12.536	117	48303	54.813	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	164342	51.256	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.945	75	26027	52.951	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	93173	53.005	ug/l		100
94) Hexachlorobutadiene	13.725	225	35172	49.744	ug/l		100
95) Naphthalene	13.774	128	365234	53.230	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	97000	52.027	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

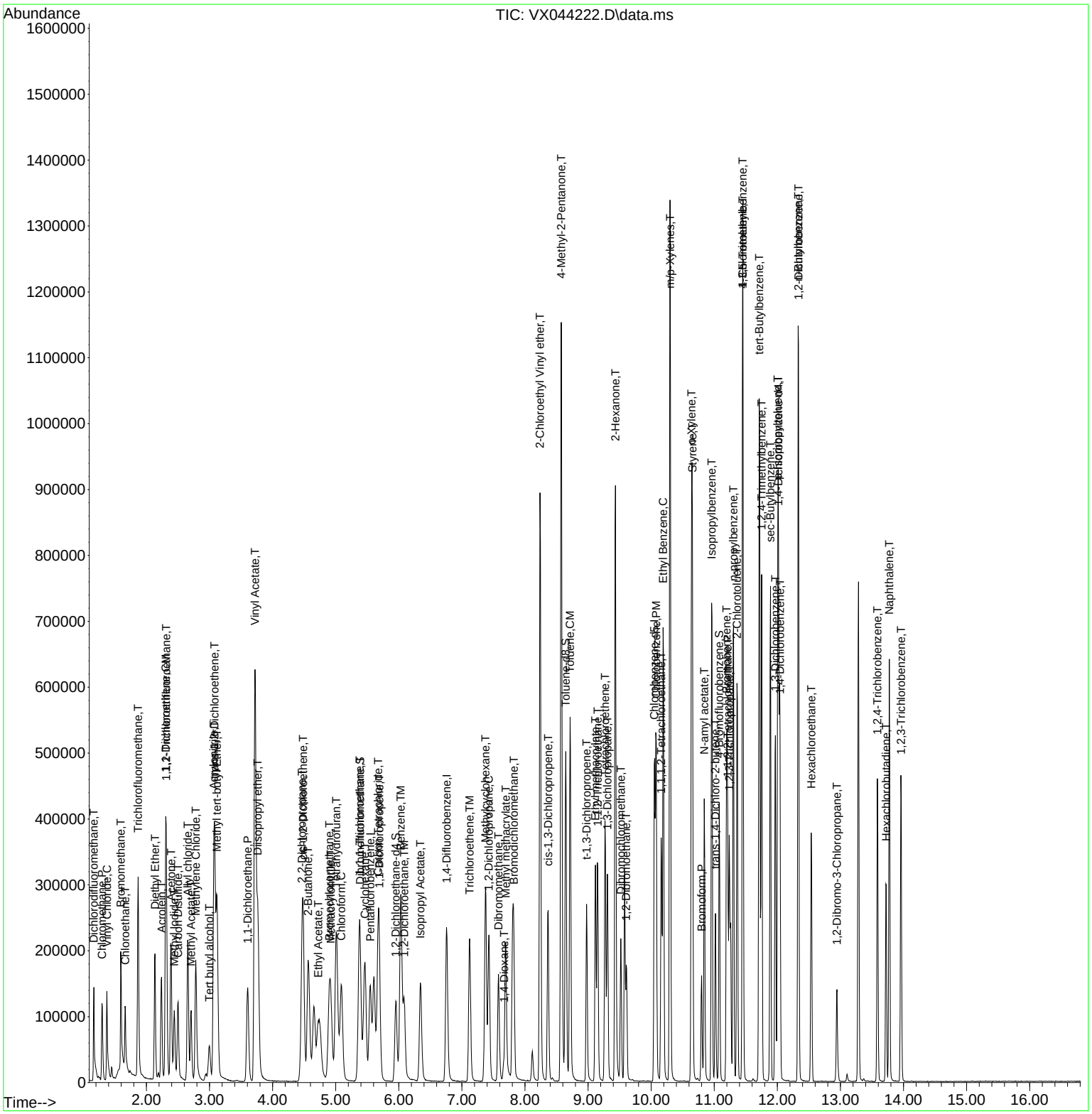
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

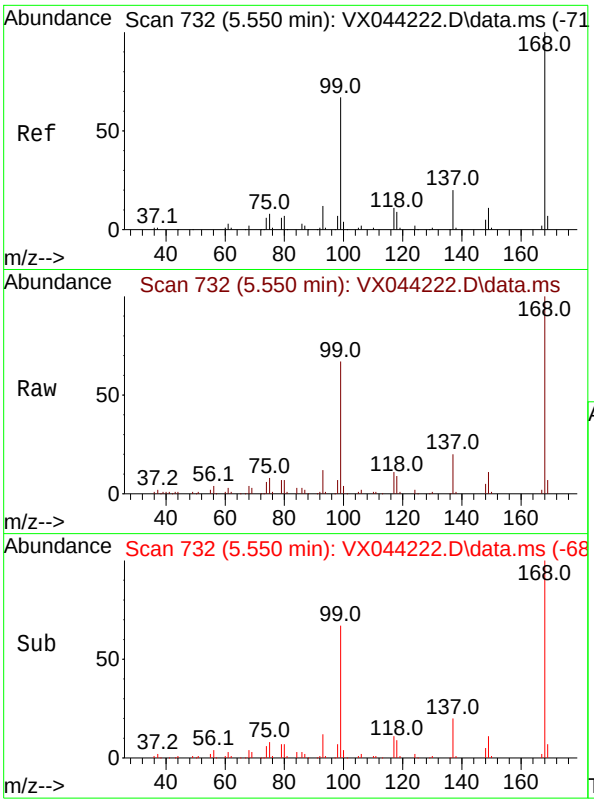
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration



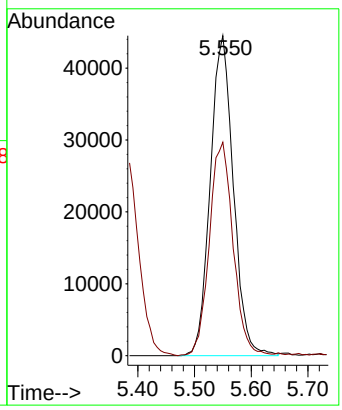


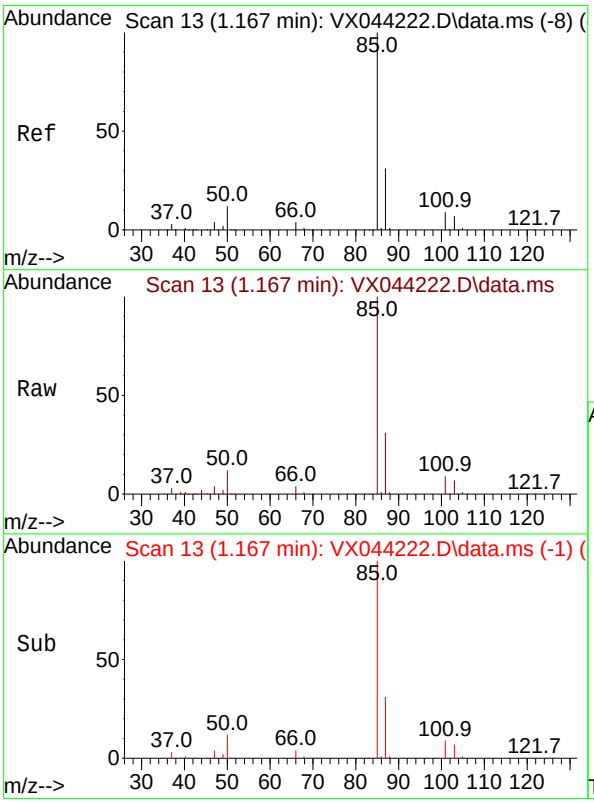
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 125713

Ion	Ratio	Lower	Upper
168	100		
99	66.7	53.4	80.0

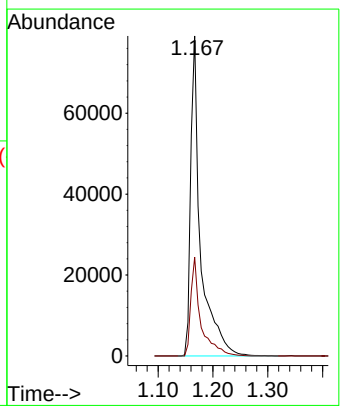


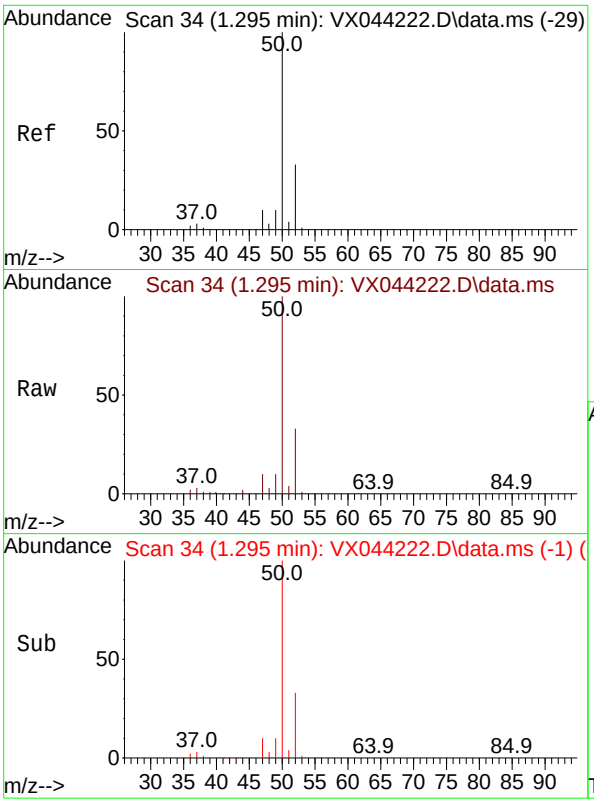


#2
Dichlorodifluoromethane
Concen: 50.957 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 85 Resp: 99052

Ion	Ratio	Lower	Upper
85	100		
87	30.9	15.4	46.4



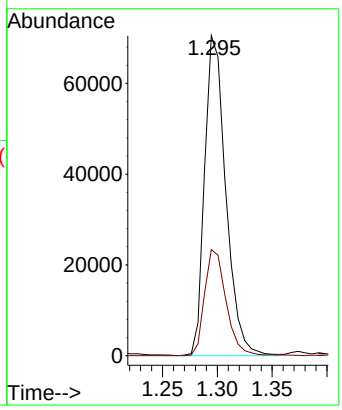


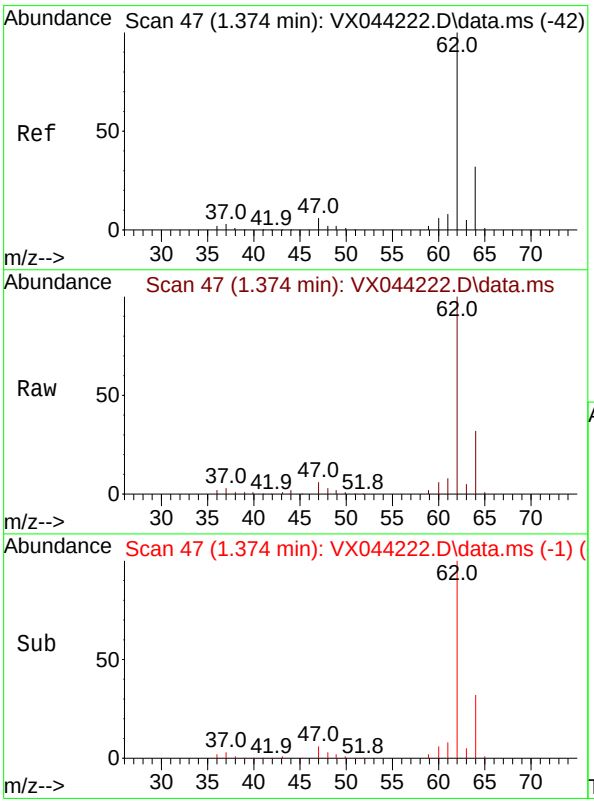
#3
Chloromethane
Concen: 51.097 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 94981

Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.5	39.7

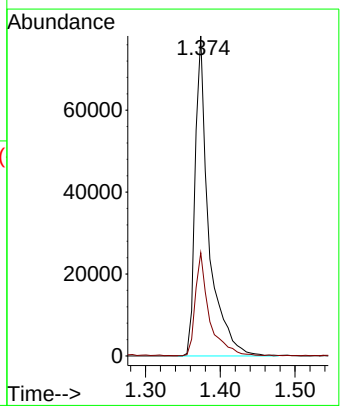


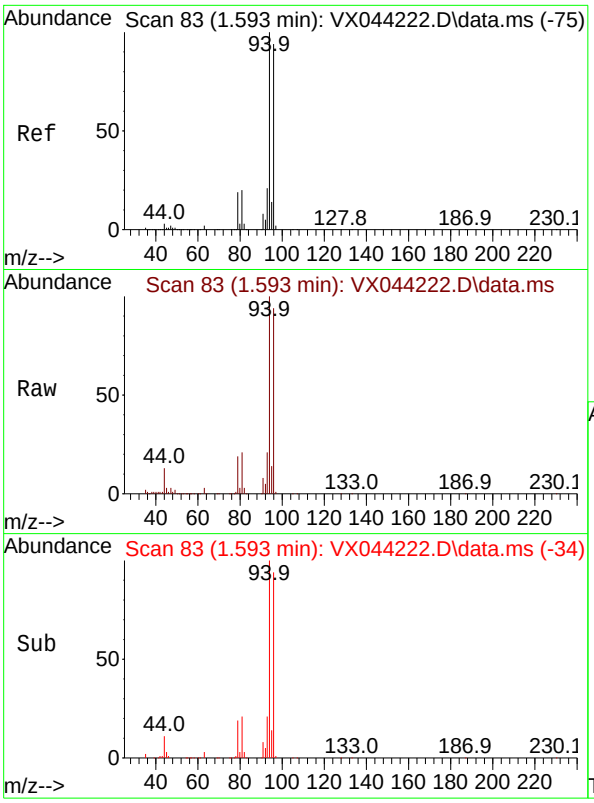


#4
Vinyl Chloride
Concen: 51.045 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 62 Resp: 98852

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.7	38.5



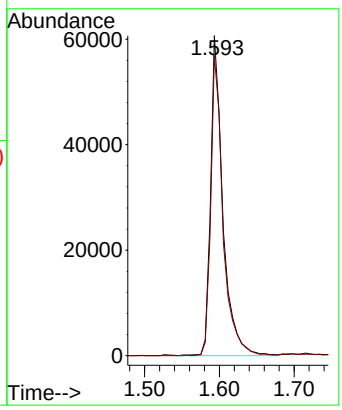


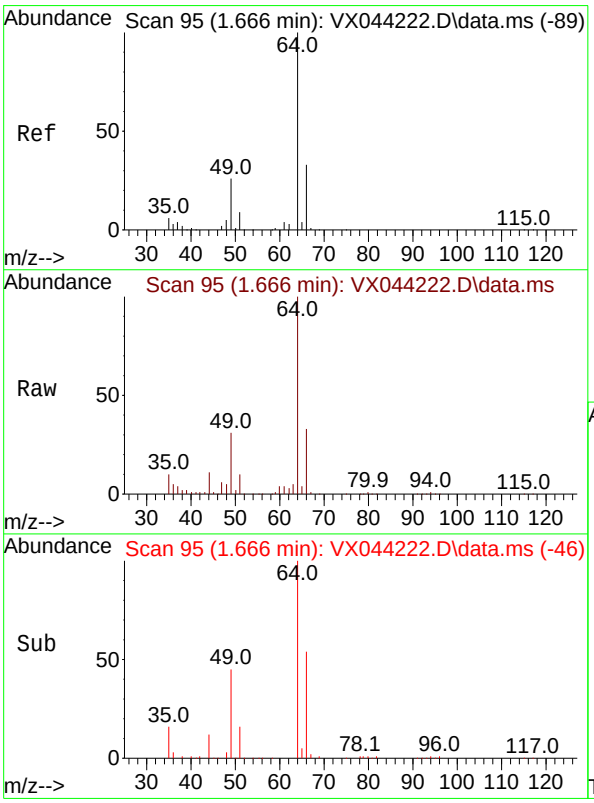
#5
Bromomethane
Concen: 50.405 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 69250

Ion	Ratio	Lower	Upper
94	100		
96	93.6	74.9	112.3

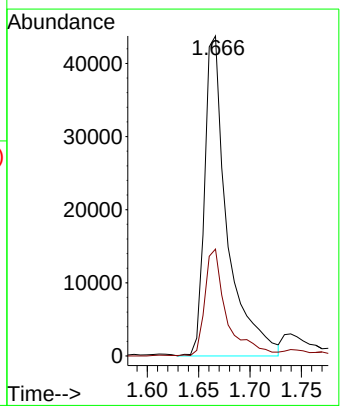


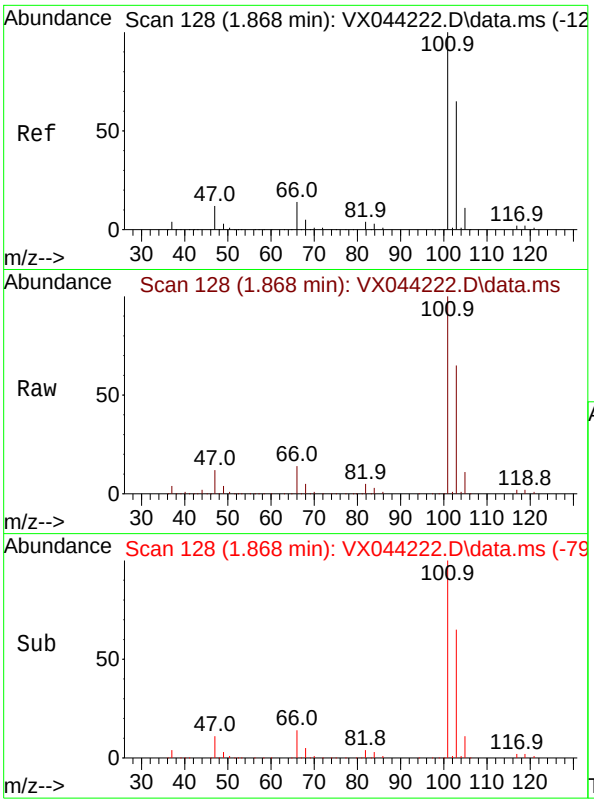


#6
Chloroethane
Concen: 55.448 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 64 Resp: 66862

Ion	Ratio	Lower	Upper
64	100		
66	33.2	26.6	39.8



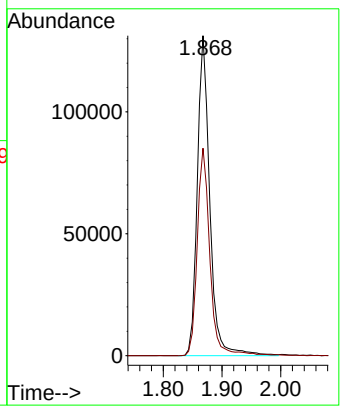


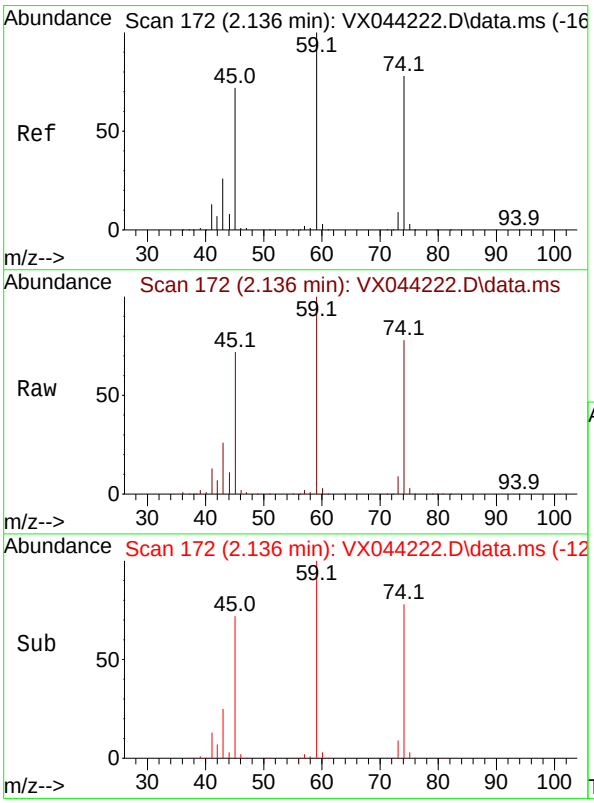
#7
Trichlorofluoromethane
Concen: 51.086 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 193676

Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.8	77.8

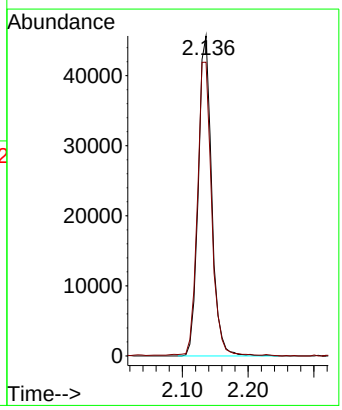


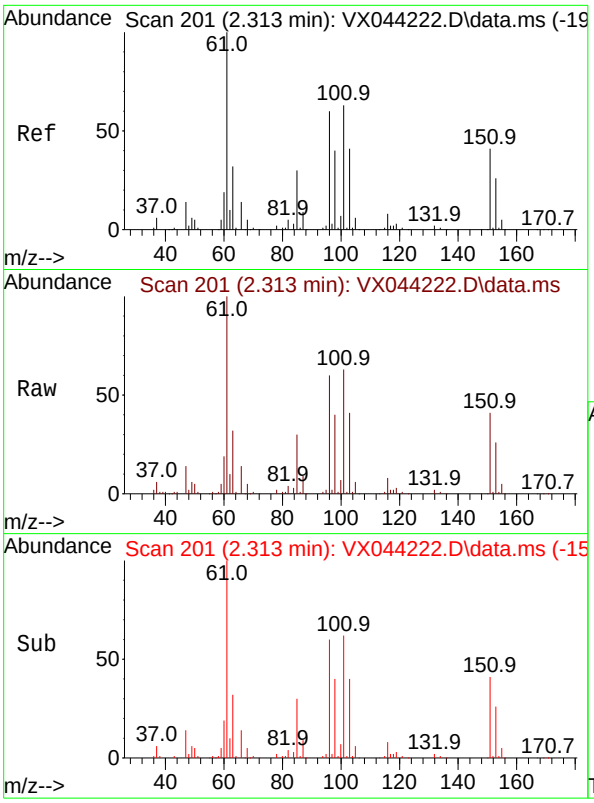


#8
Diethyl Ether
Concen: 49.875 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 74 Resp: 64542

Ion	Ratio	Lower	Upper
74	100		
45	96.7	48.4	145.0



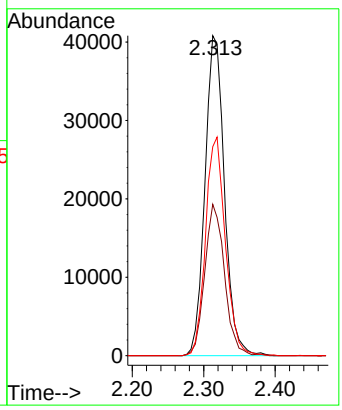


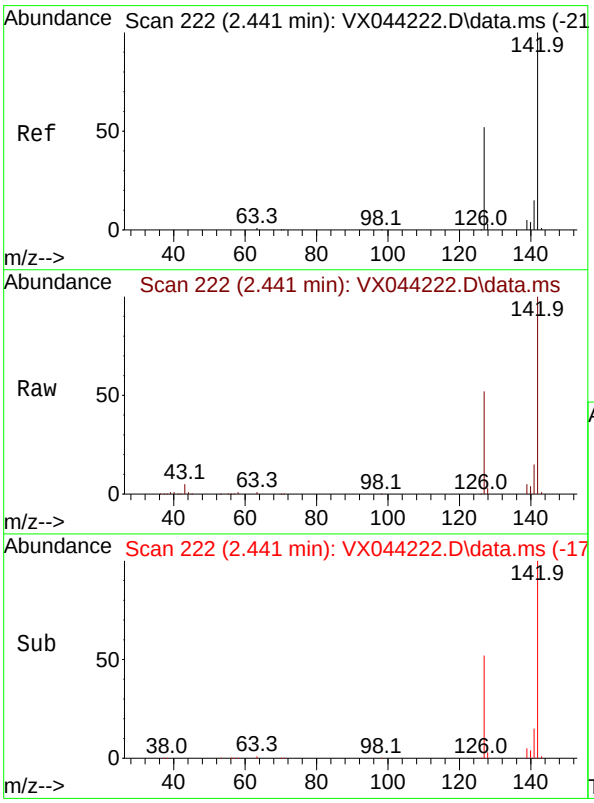
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.371 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 77275

Ion	Ratio	Lower	Upper
101	100		
85	48.1	38.5	57.7
151	69.7	55.8	83.6

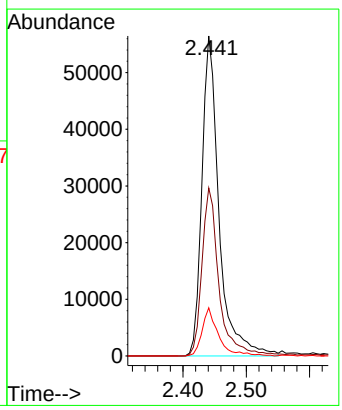


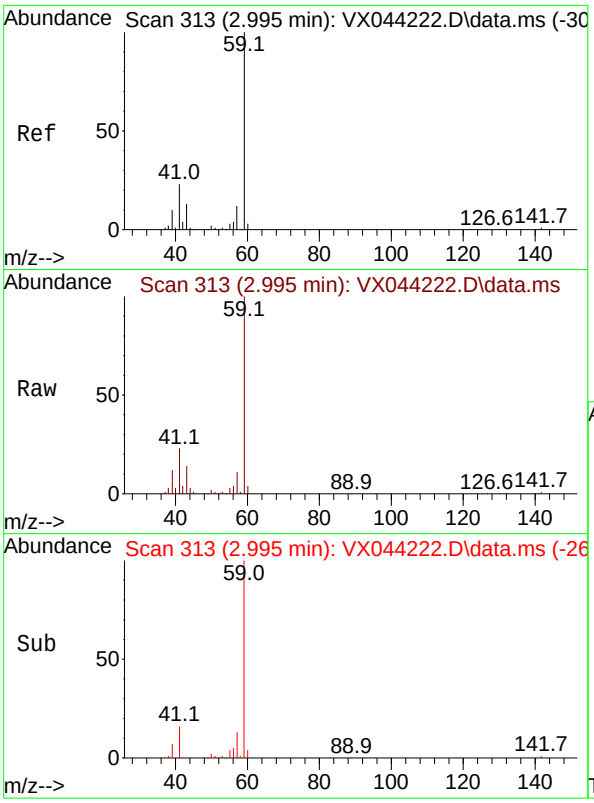


#10
Methyl Iodide
Concen: 52.678 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:142 Resp: 106509

Ion	Ratio	Lower	Upper
142	100		
127	52.3	41.8	62.8
141	14.4	11.5	17.3



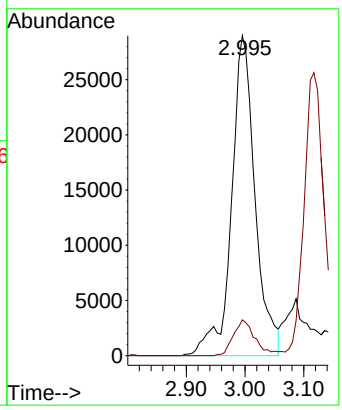


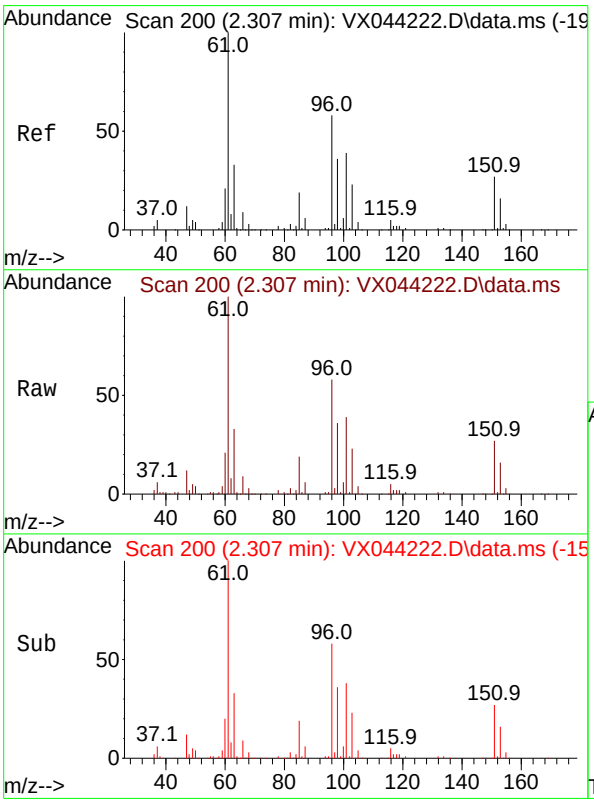
#11
Tert butyl alcohol
Concen: 261.121 ug/l
RT: 2.995 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 80988

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.8	13.2

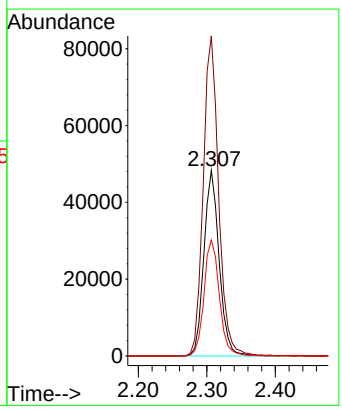


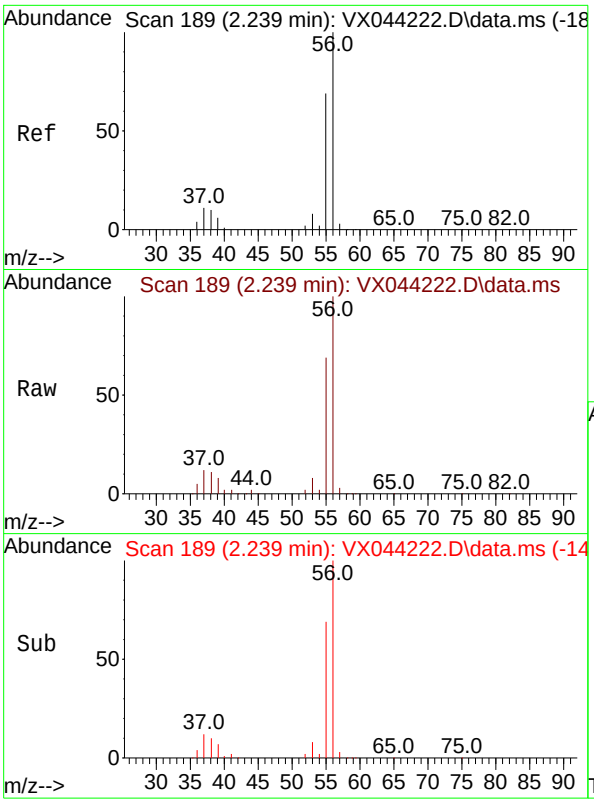


#12
1,1-Dichloroethene
Concen: 53.143 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 96 Resp: 74884

Ion	Ratio	Lower	Upper
96	100		
61	172.5	138.0	207.0
98	62.5	50.0	75.0



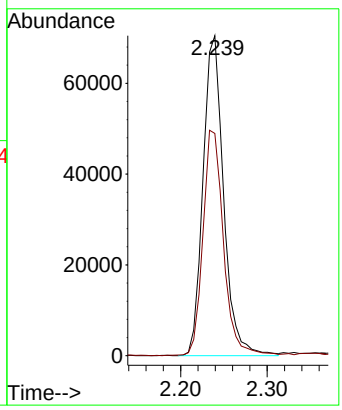


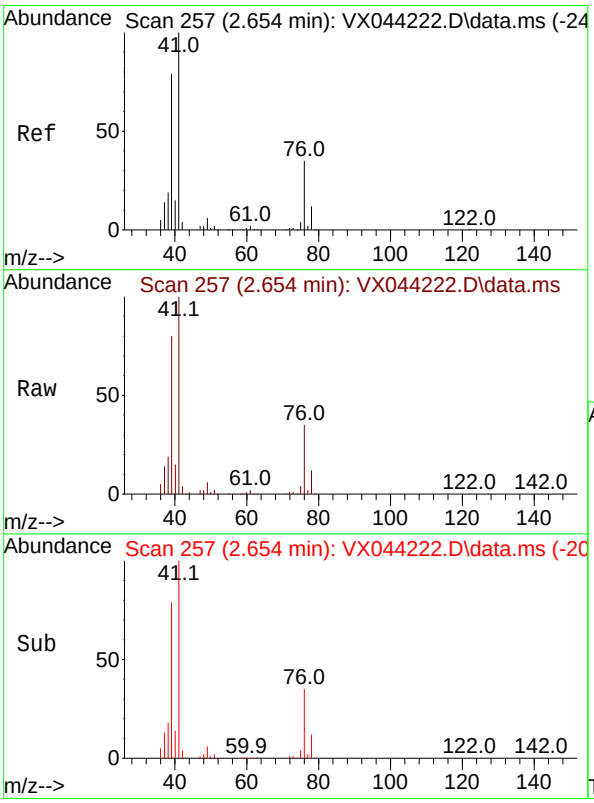
#13
Acrolein
Concen: 258.347 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 116171

Ion	Ratio	Lower	Upper
56	100		
55	70.7	56.6	84.8

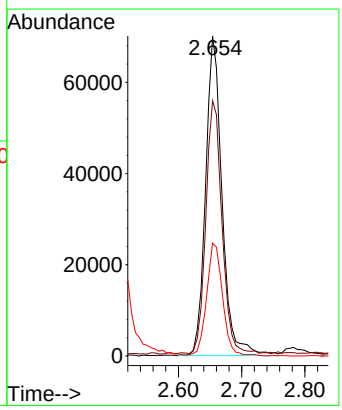


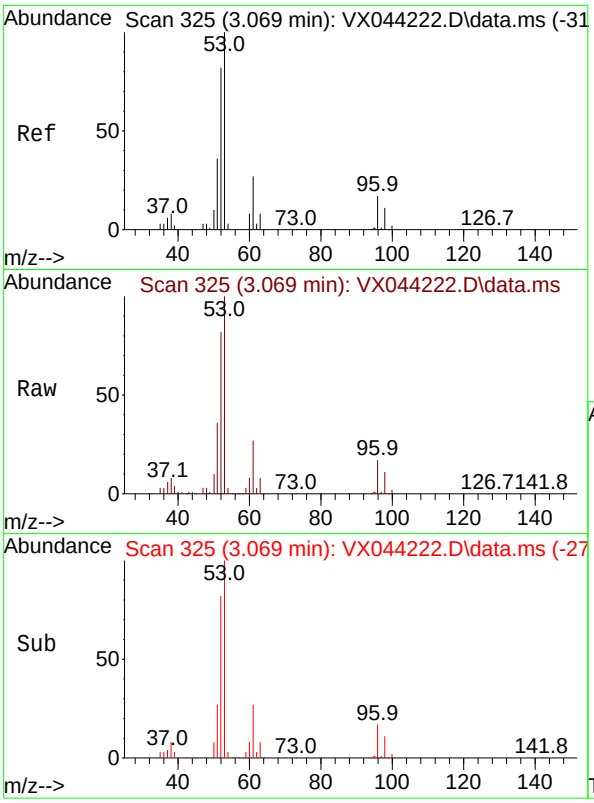


#14
Allyl chloride
Concen: 54.079 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 41 Resp: 126925

Ion	Ratio	Lower	Upper
41	100		
39	77.4	61.9	92.9
76	34.3	27.4	41.2



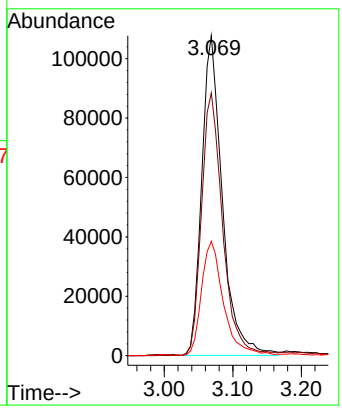


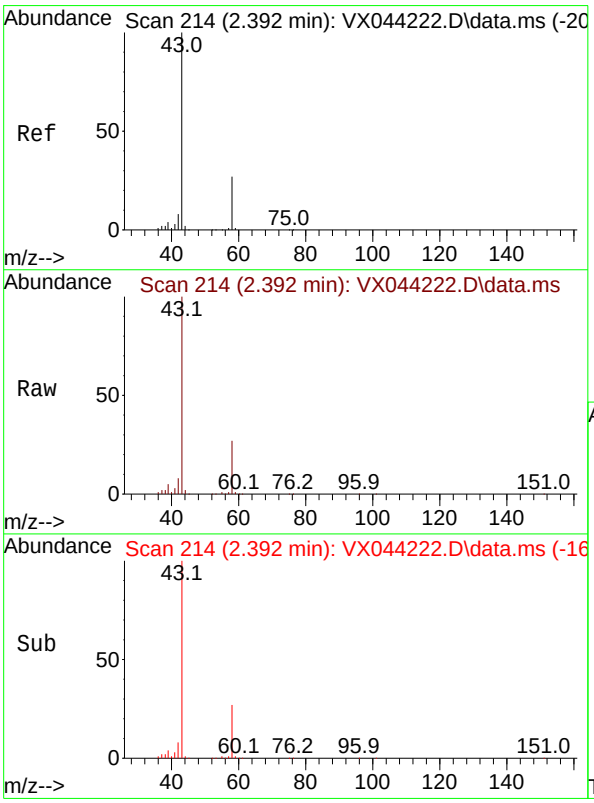
#15
Acrylonitrile
Concen: 261.859 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 225330

Ion	Ratio	Lower	Upper
53	100		
52	84.2	67.4	101.0
51	37.9	30.3	45.5

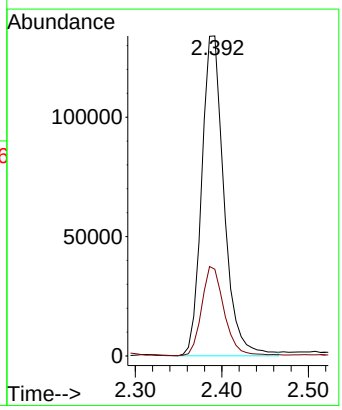


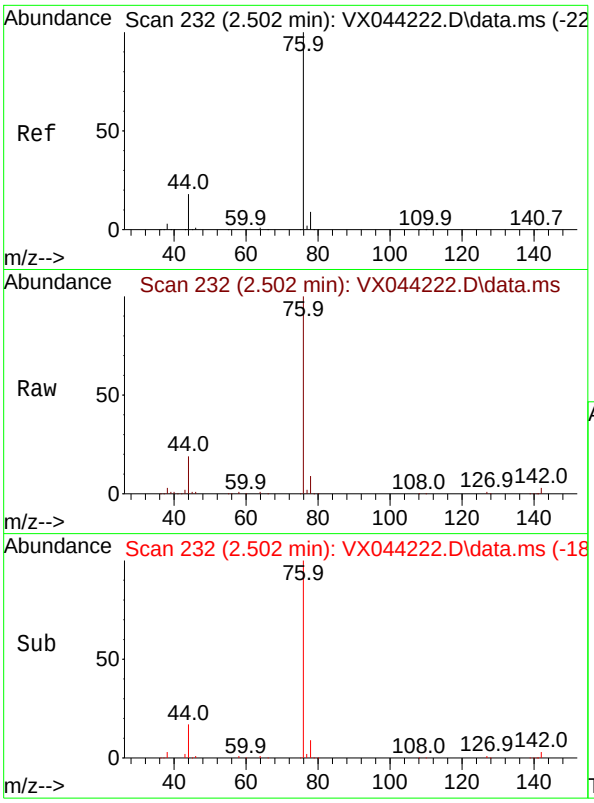


#16
Acetone
Concen: 266.704 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 239661

Ion	Ratio	Lower	Upper
43	100		
58	27.0	21.6	32.4



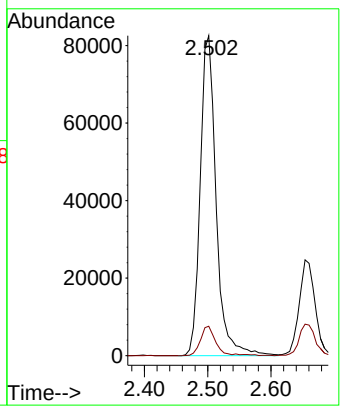


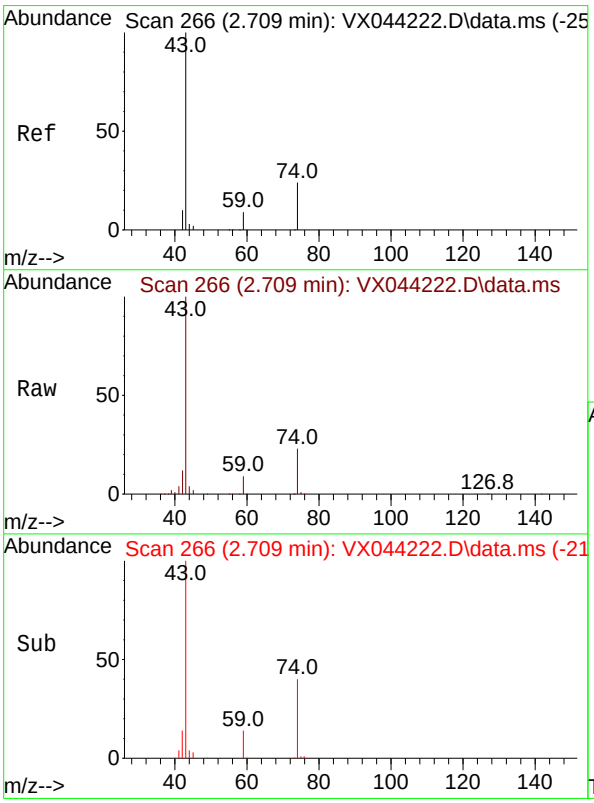
#17
Carbon Disulfide
Concen: 53.994 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 144624

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

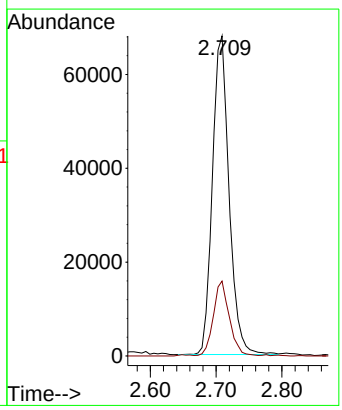


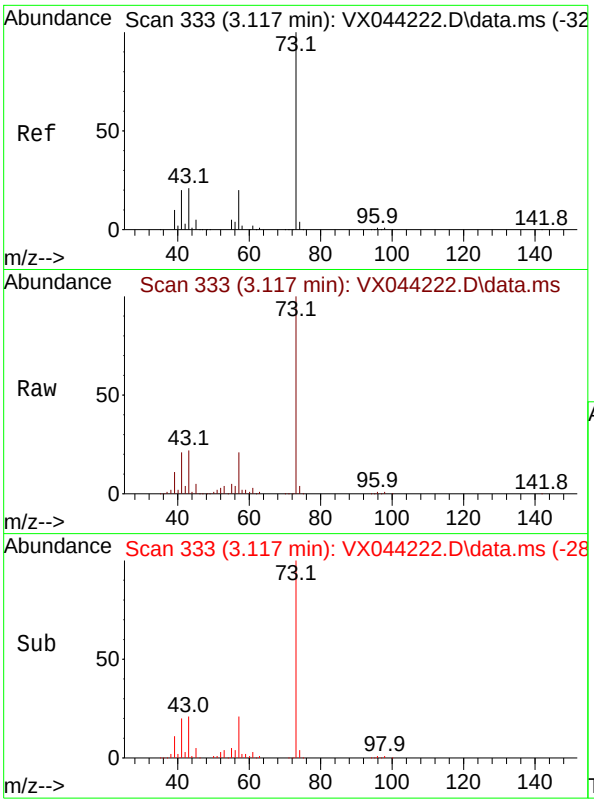


#18
Methyl Acetate
Concen: 51.710 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 119808

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.7	26.5



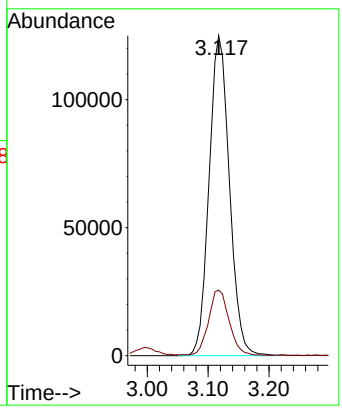


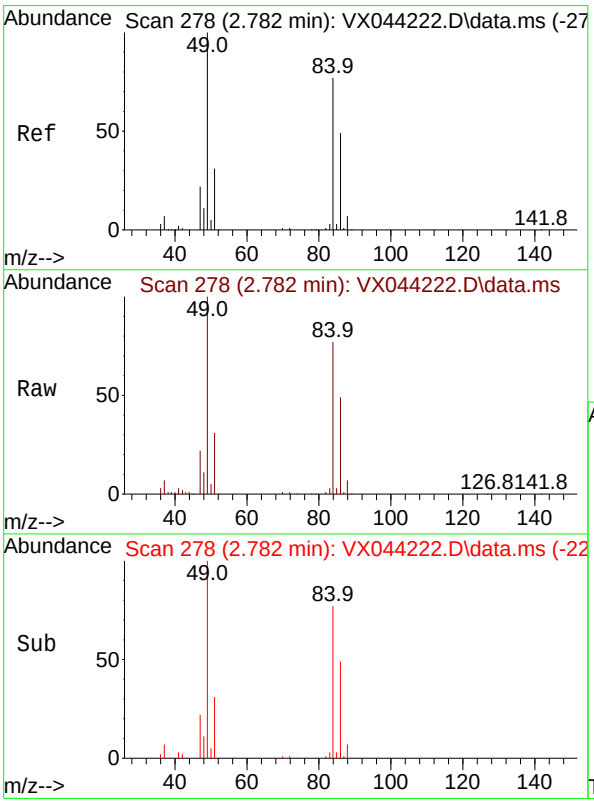
#19
Methyl tert-butyl Ether
Concen: 52.691 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 289735

Ion	Ratio	Lower	Upper
73	100		
57	20.3	16.2	24.4

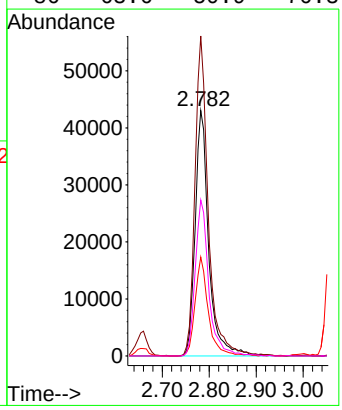


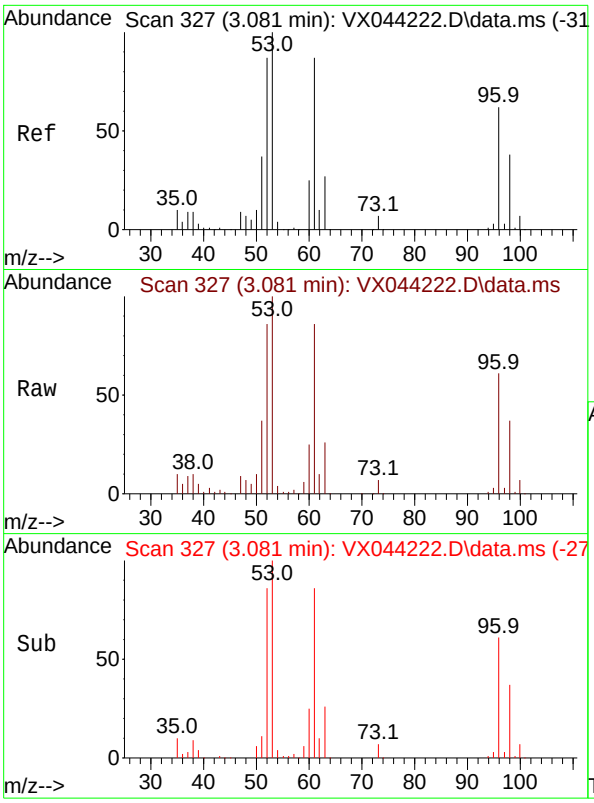


#20
Methylene Chloride
Concen: 51.305 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 84 Resp: 86593

Ion	Ratio	Lower	Upper
84	100		
49	130.3	104.2	156.4
51	40.3	32.2	48.4
86	63.6	50.9	76.3



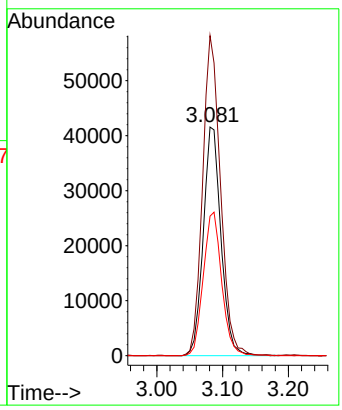


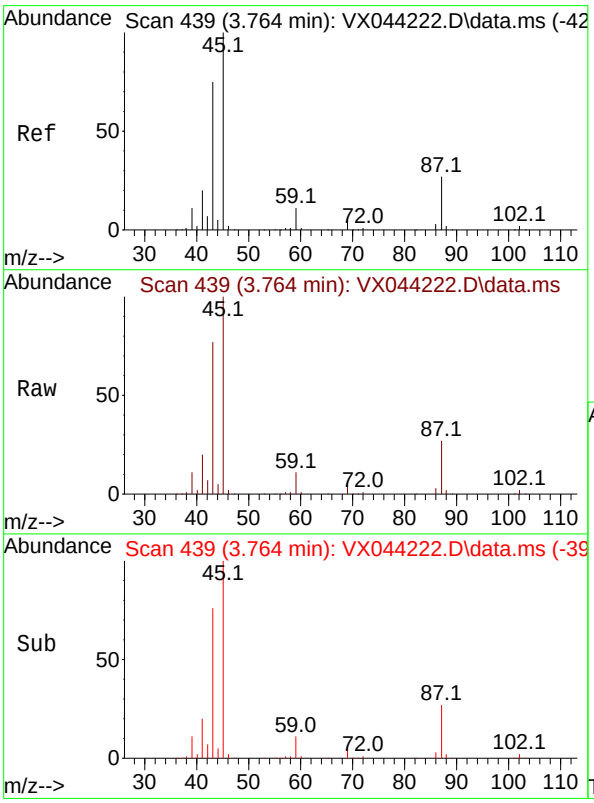
#21
trans-1,2-Dichloroethene
Concen: 51.974 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 77834

Ion	Ratio	Lower	Upper
96	100		
61	140.0	112.0	168.0
98	61.0	48.8	73.2

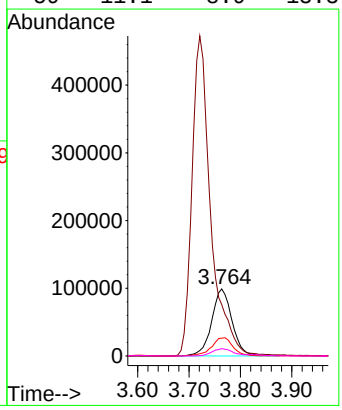


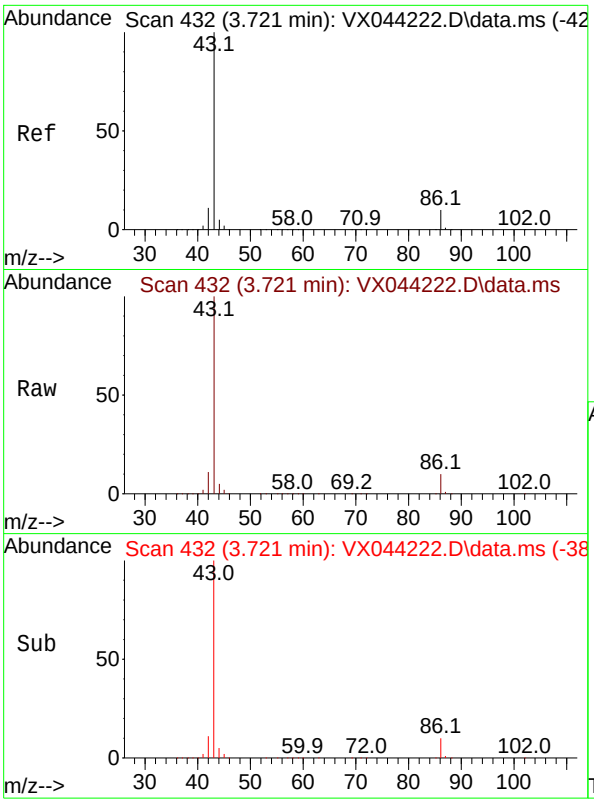


#22
Diisopropyl ether
Concen: 51.662 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 45 Resp: 273039

Ion	Ratio	Lower	Upper
45	100		
43	75.2	60.2	90.2
87	26.5	21.2	31.8
59	11.1	8.9	13.3



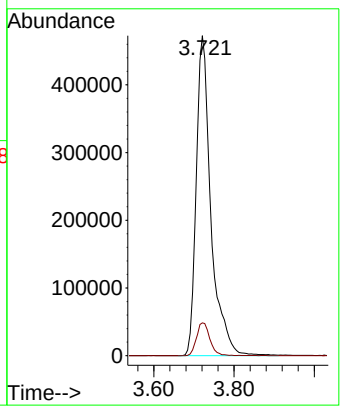


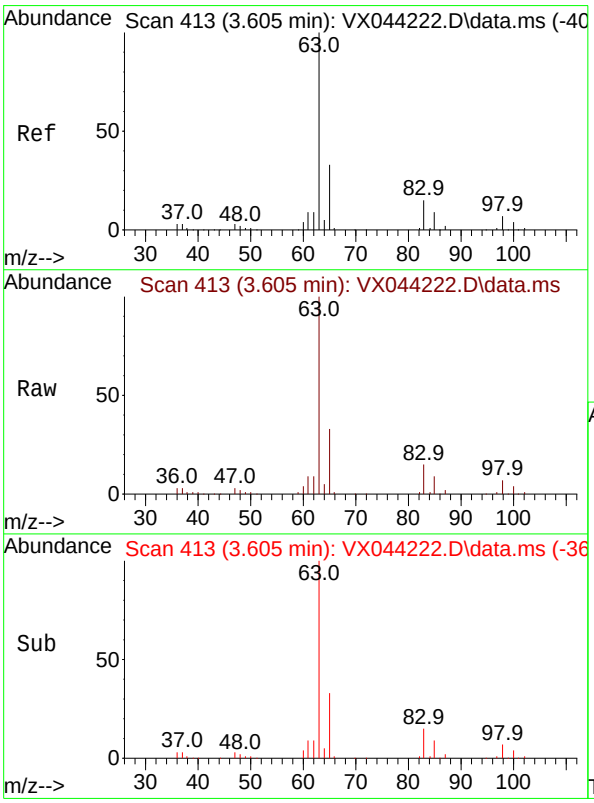
#23
Vinyl Acetate
Concen: 279.754 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1202044

Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.2	12.2

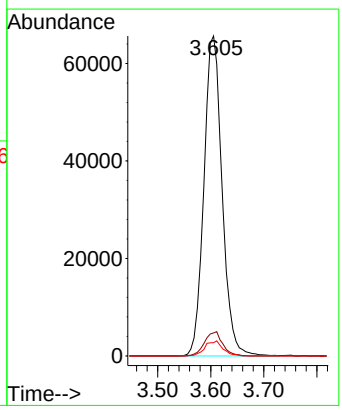


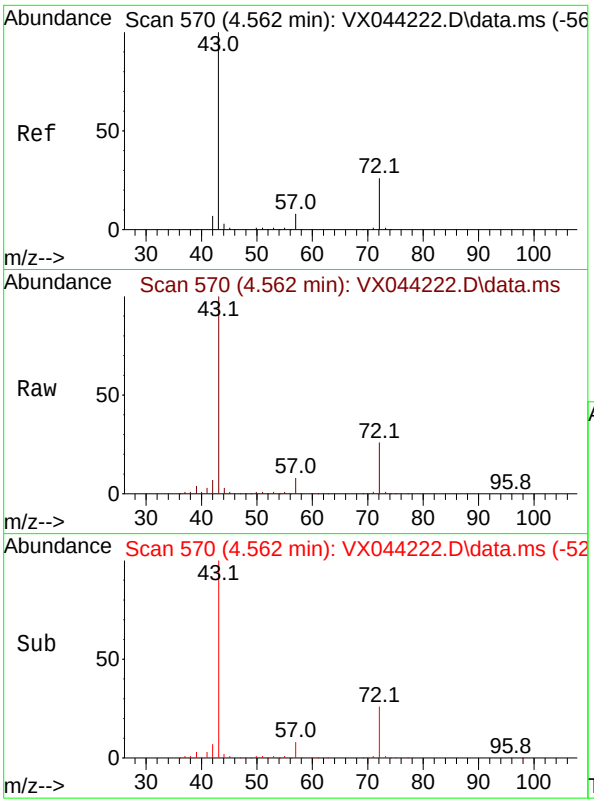


#24
1,1-Dichloroethane
Concen: 53.093 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 63 Resp: 156412

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	4.2	2.1	6.3



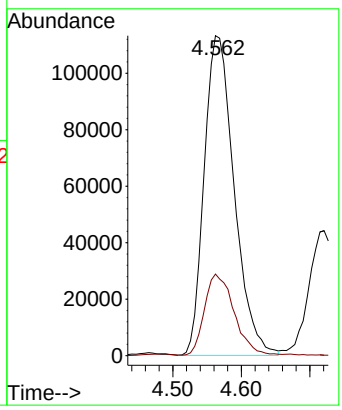


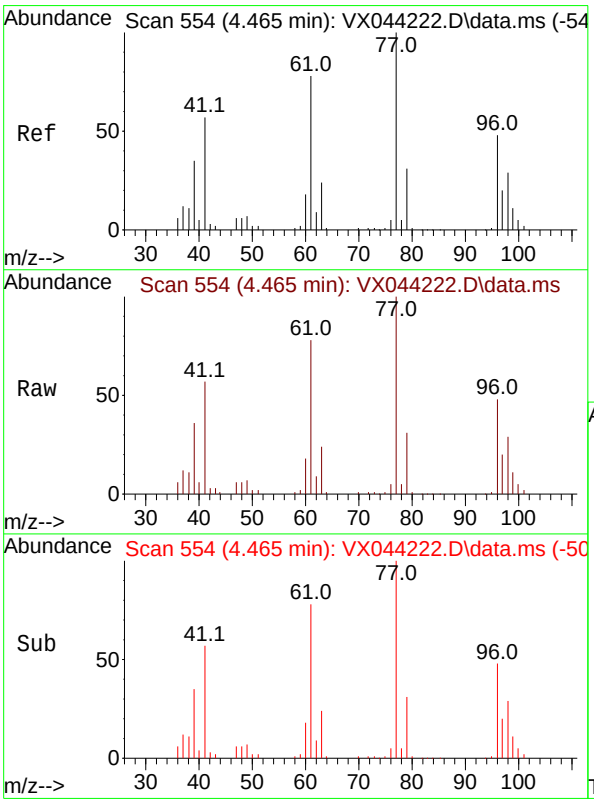
#25
2-Butanone
Concen: 269.797 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 344663

Ion	Ratio	Lower	Upper
43	100		
72	25.3	20.2	30.4

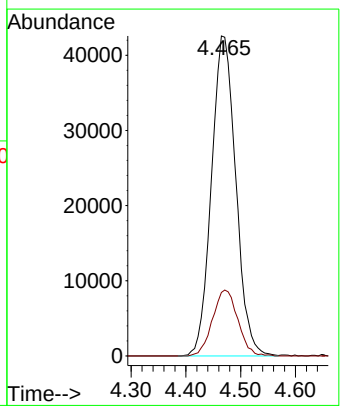


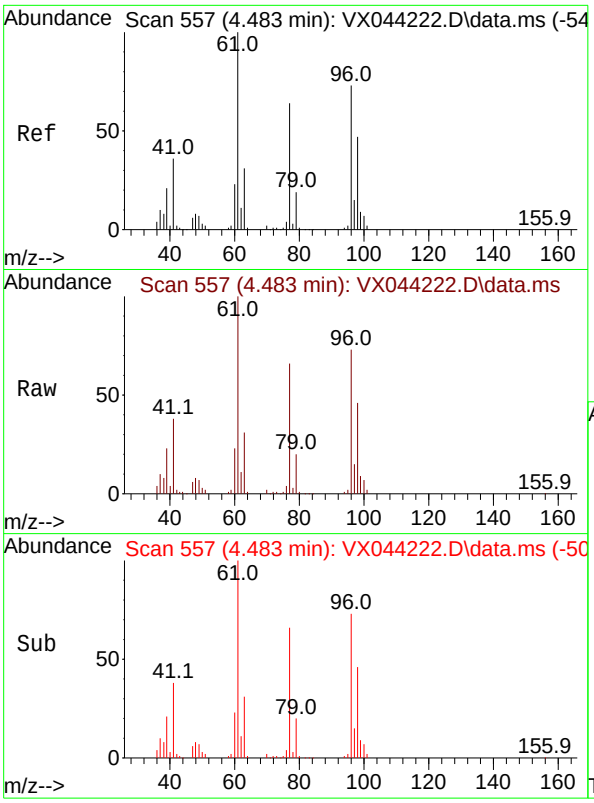


#26
2,2-Dichloropropane
Concen: 54.914 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 77 Resp: 131428

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.7	32.1



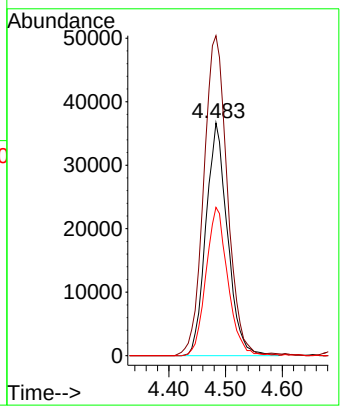


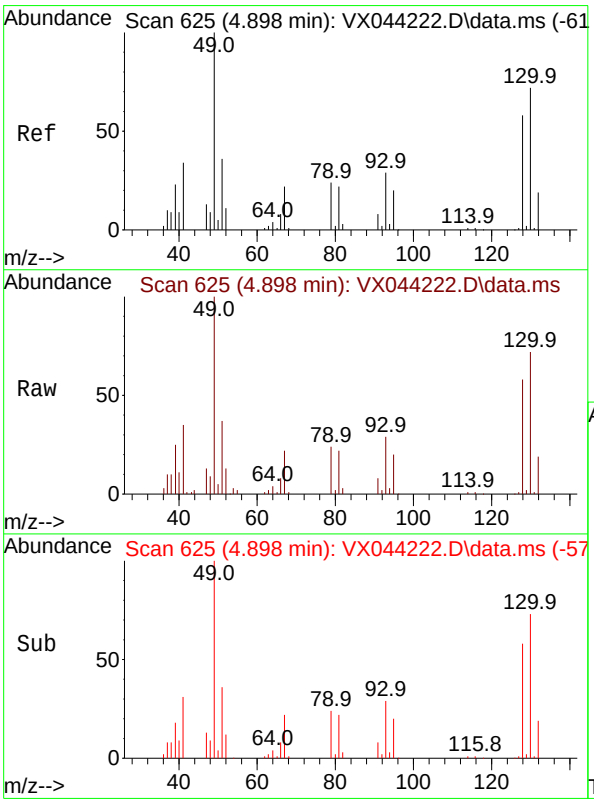
#27
cis-1,2-Dichloroethene
Concen: 51.007 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 97013

Ion	Ratio	Lower	Upper
96	100		
61	149.5	0.0	299.0
98	64.5	0.0	129.0

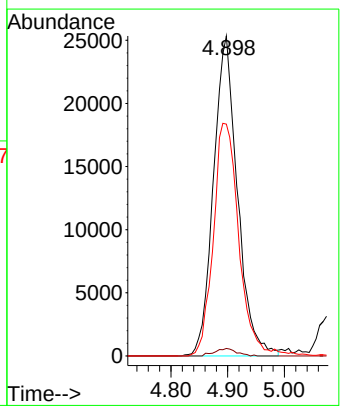


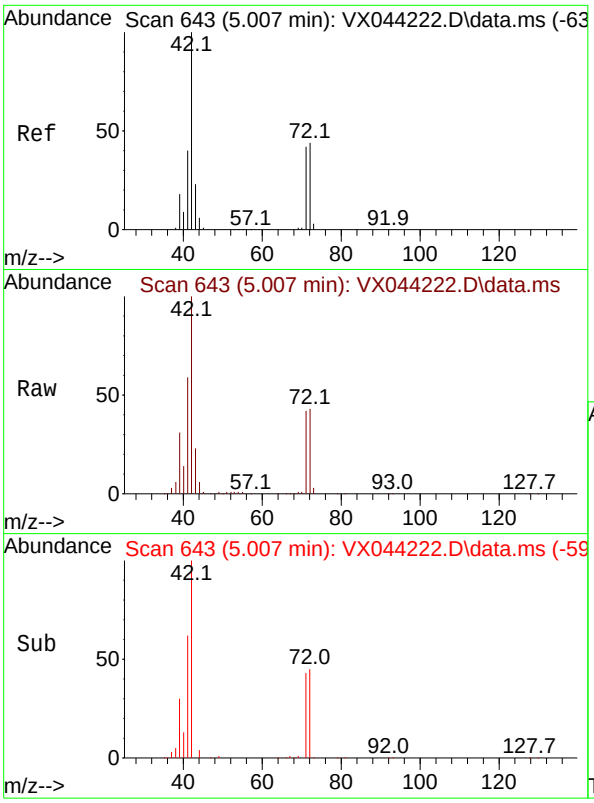


#28
Bromochloromethane
Concen: 51.555 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 49 Resp: 74477

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	77.6	62.1	93.1



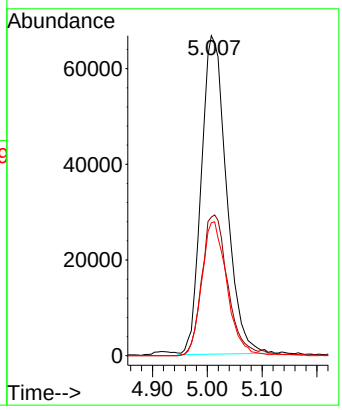


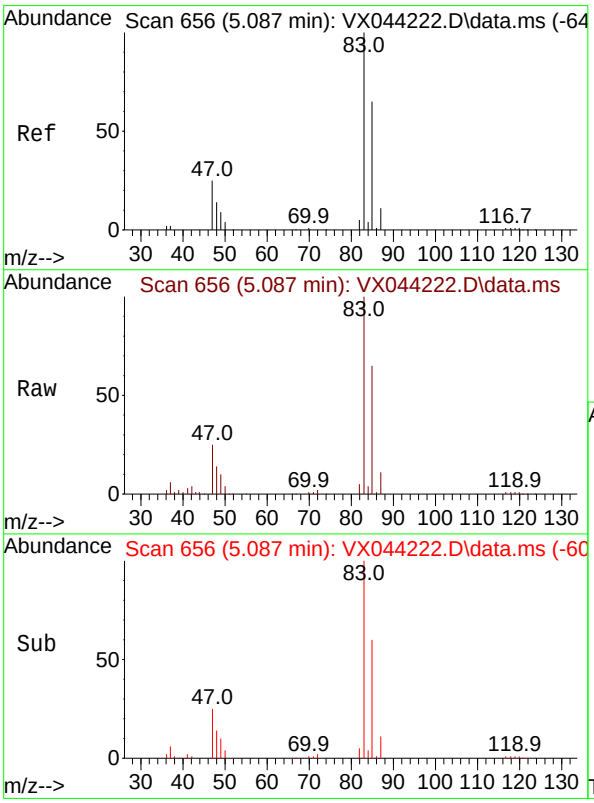
#29
Tetrahydrofuran
Concen: 258.669 ug/l
RT: 5.007 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 212103

Ion	Ratio	Lower	Upper
42	100		
72	46.3	37.0	55.6
71	42.0	33.6	50.4

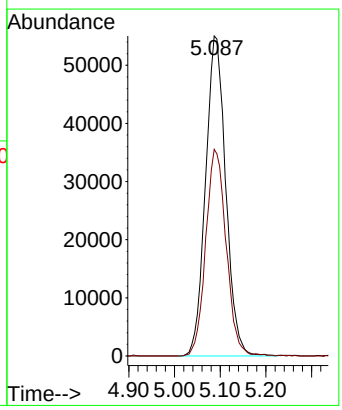


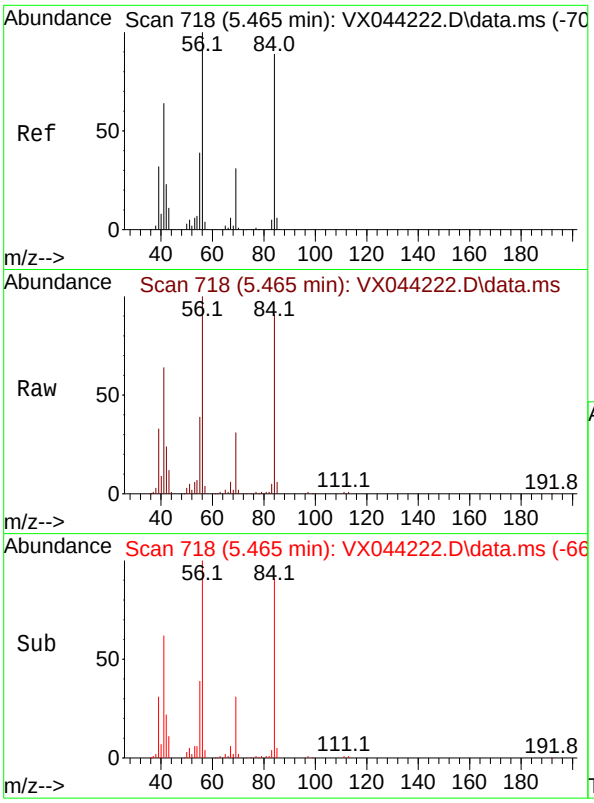


#30
Chloroform
Concen: 51.017 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 83 Resp: 168864

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.6	77.4



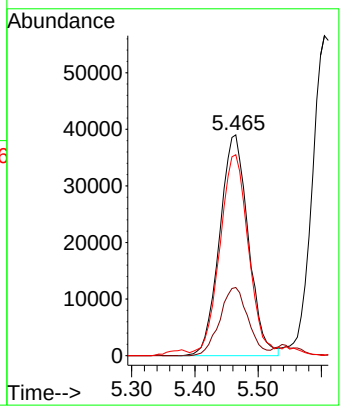


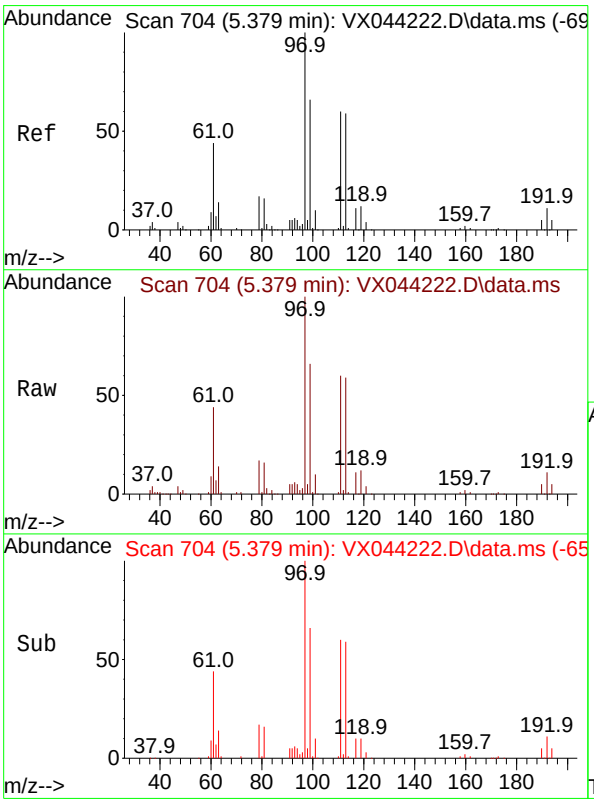
#31
Cyclohexane
Concen: 51.637 ug/l
RT: 5.465 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 122841

Ion	Ratio	Lower	Upper
56	100		
69	30.9	24.7	37.1
84	88.8	71.0	106.6

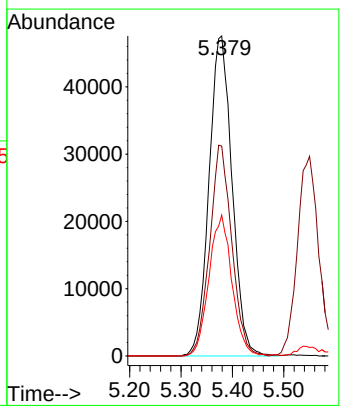


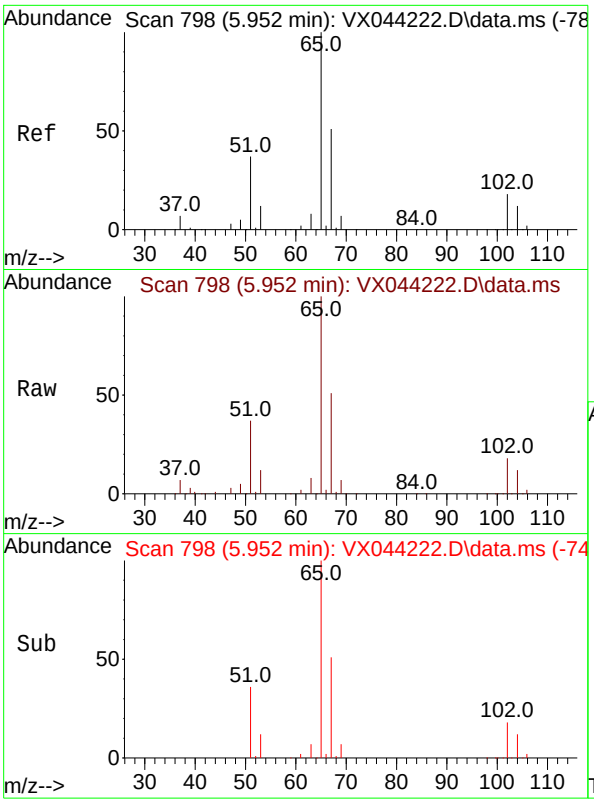


#32
1,1,1-Trichloroethane
Concen: 53.806 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 97 Resp: 147834

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.8	76.2
61	44.0	35.2	52.8



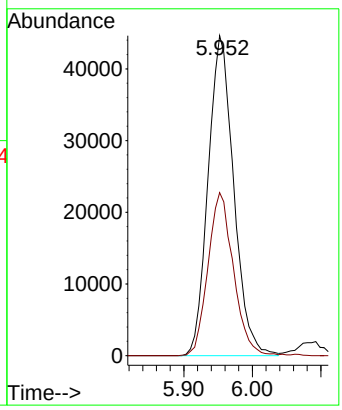


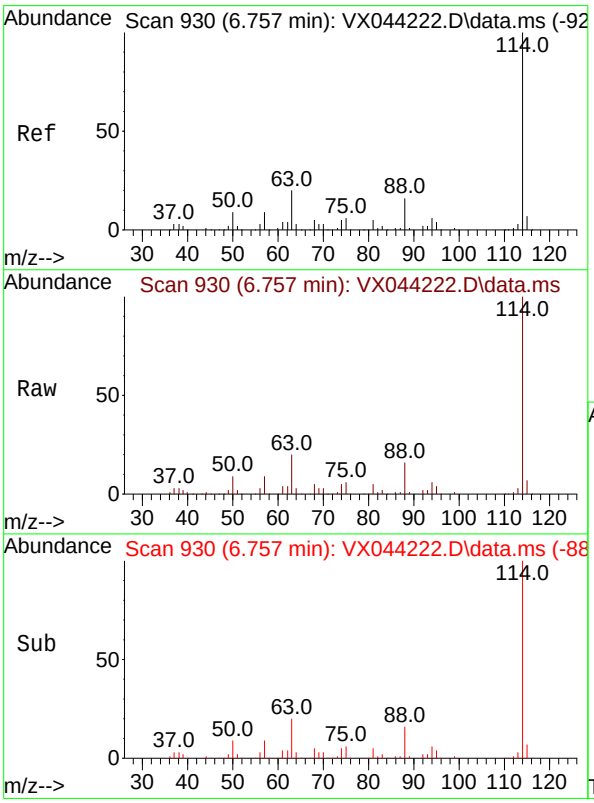
#33
1,2-Dichloroethane-d4
Concen: 52.544 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 115815

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	101.6

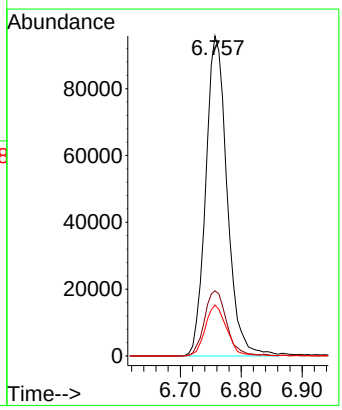


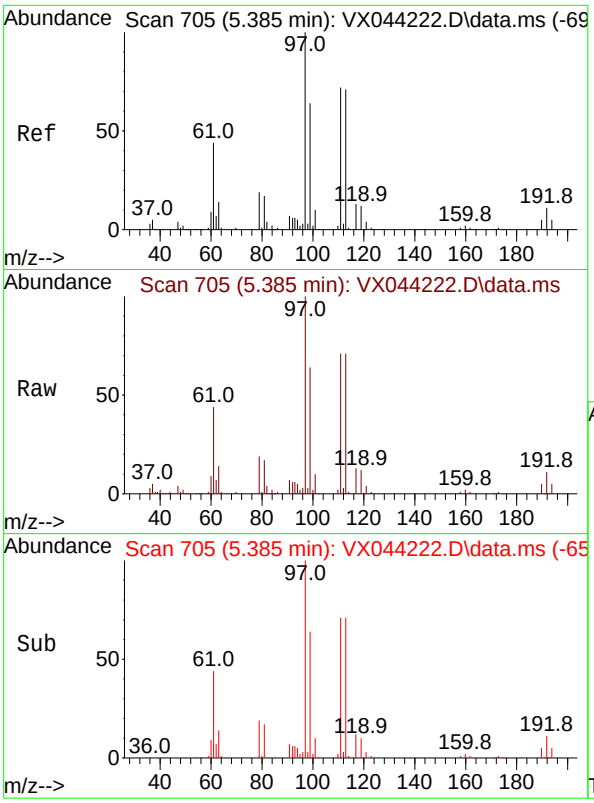


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:114 Resp: 233488

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	40.6
88	15.9	0.0	31.8



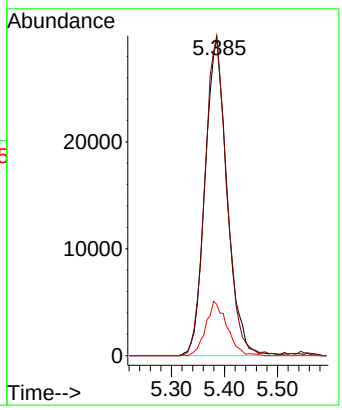


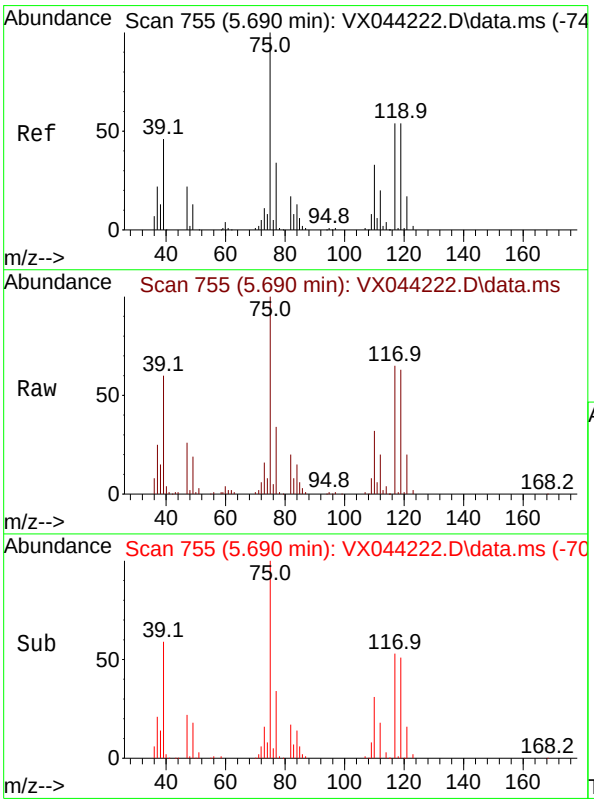
#35
Dibromofluoromethane
Concen: 52.968 ug/l
RT: 5.385 min Scan# 7(
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 85656

Ion	Ratio	Lower	Upper
113	100		
111	100.5	80.4	120.6
192	16.6	13.3	19.9

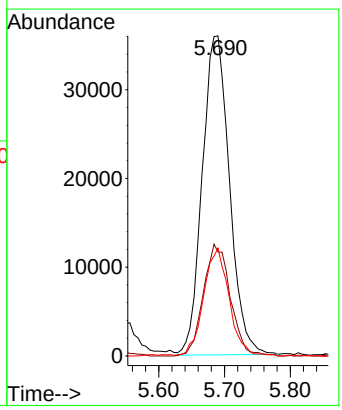


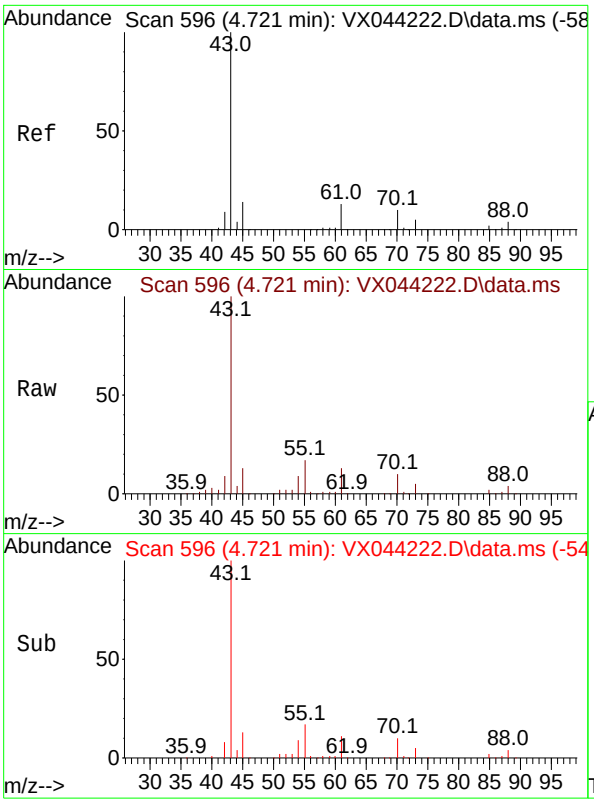


#36
1,1-Dichloropropene
Concen: 49.638 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 103760

Ion	Ratio	Lower	Upper
75	100		
110	34.5	17.3	51.7
77	31.7	25.4	38.0



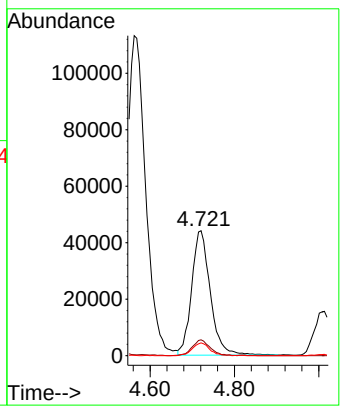


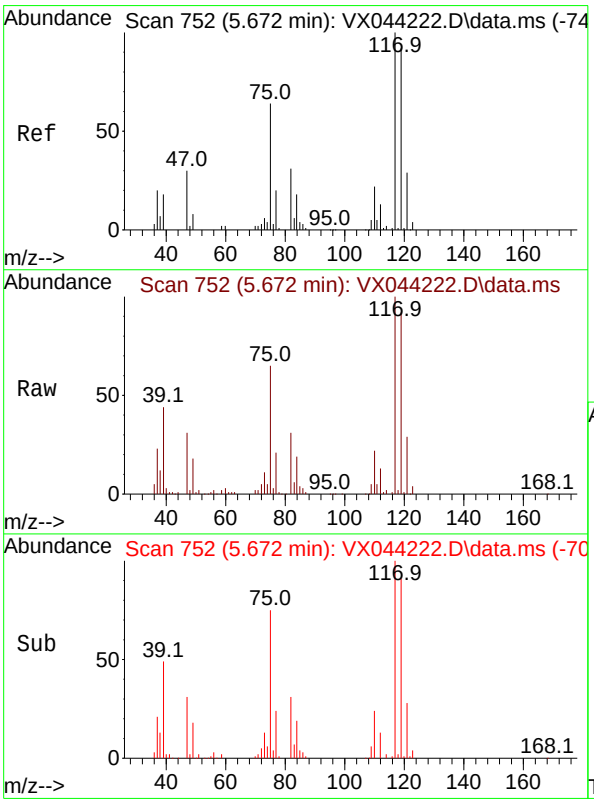
#37
Ethyl Acetate
Concen: 52.537 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 135753

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.6	7.7	11.5

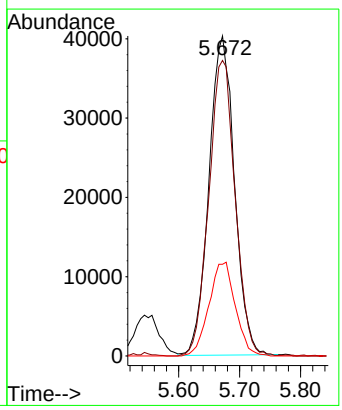


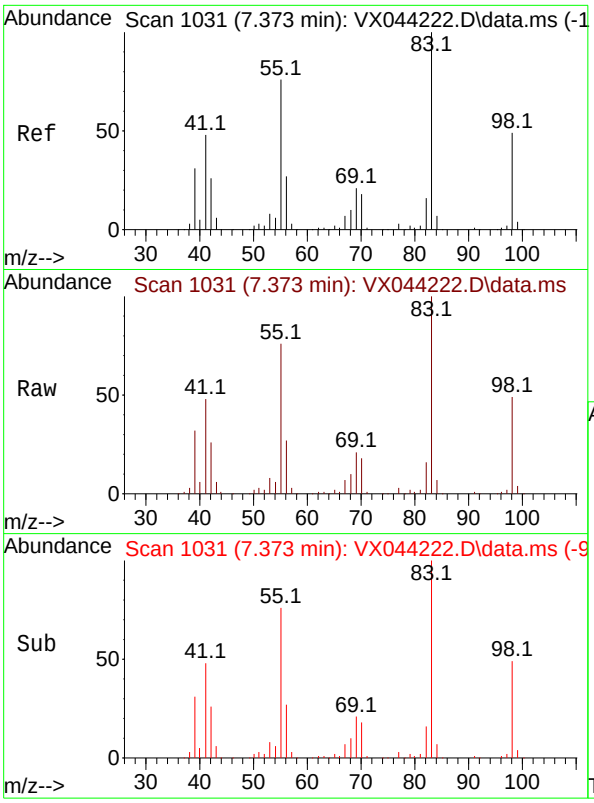


#38
Carbon Tetrachloride
Concen: 52.023 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:117 Resp: 117076

Ion	Ratio	Lower	Upper
117	100		
119	92.8	74.2	111.4
121	28.8	23.0	34.6



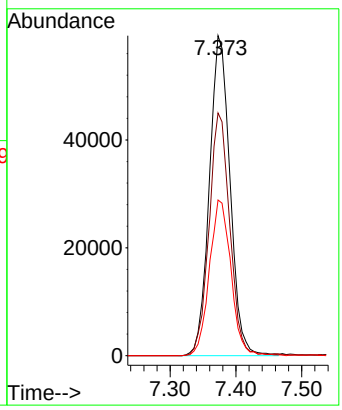


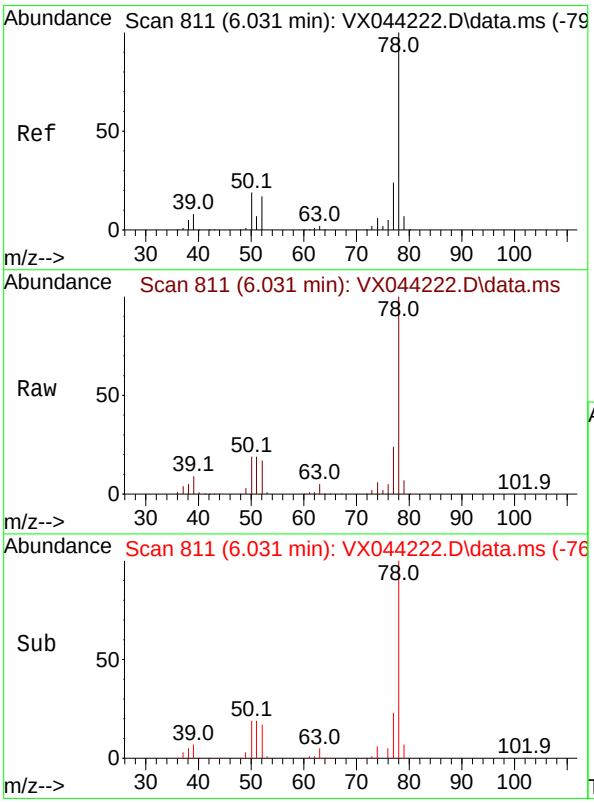
#39
Methylcyclohexane
Concen: 51.901 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 129697

Ion	Ratio	Lower	Upper
83	100		
55	75.9	60.7	91.1
98	48.6	38.9	58.3

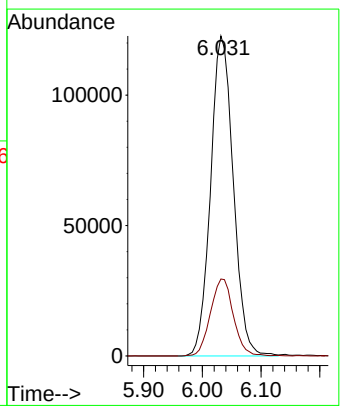


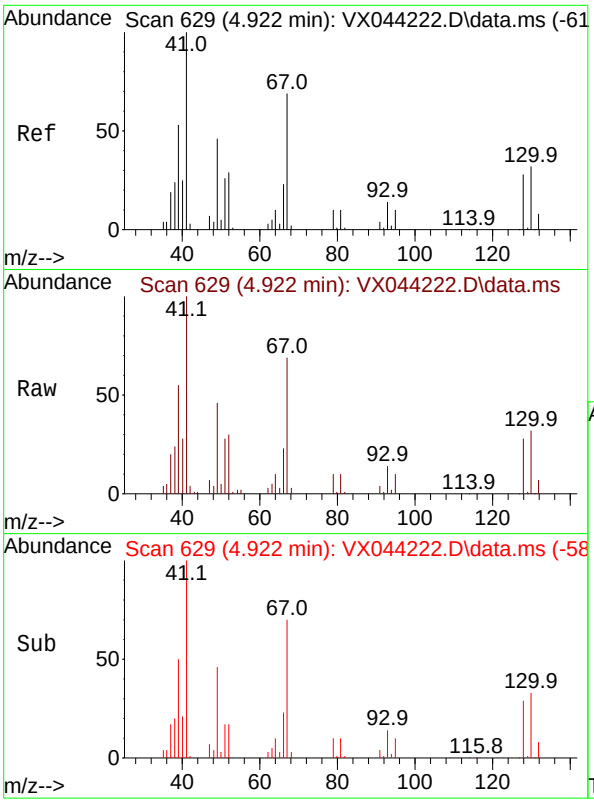


#40
Benzene
Concen: 51.863 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 78 Resp: 329154

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.3	28.9



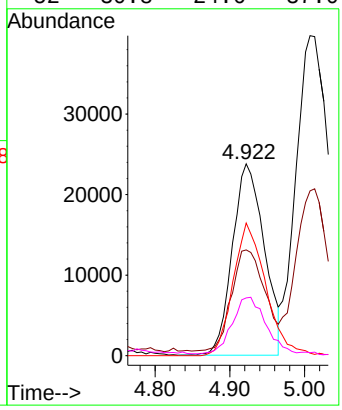


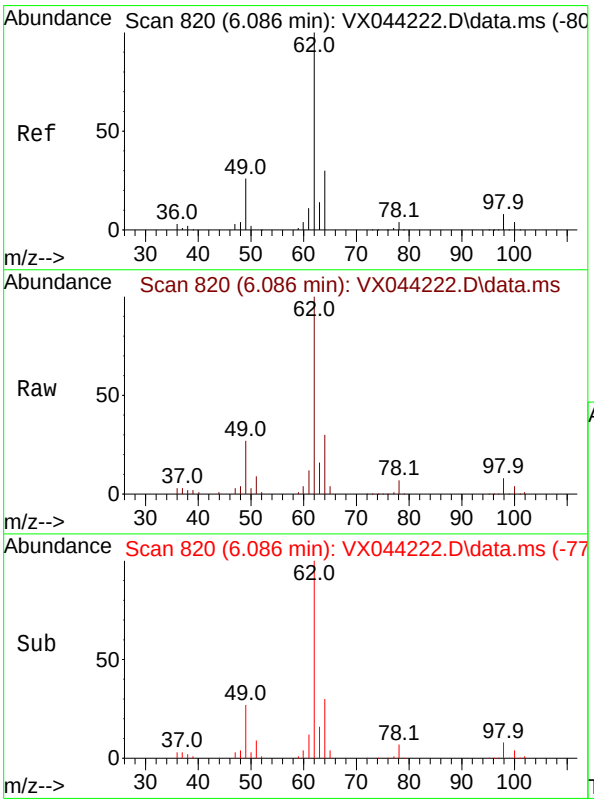
#41
Methacrylonitrile
Concen: 51.329 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 70427

Ion	Ratio	Lower	Upper
41	100		
39	55.3	44.2	66.4
67	71.5	57.2	85.8
52	30.8	24.6	37.0

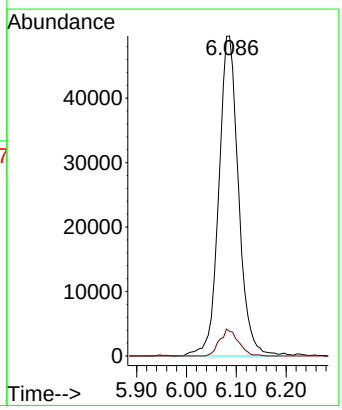


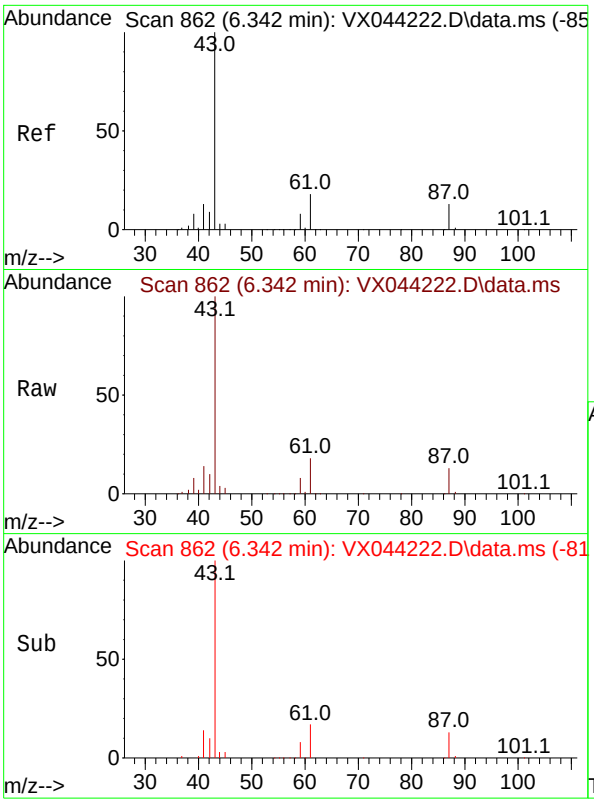


#42
1,2-Dichloroethane
Concen: 52.138 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 62 Resp: 136309

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	15.8



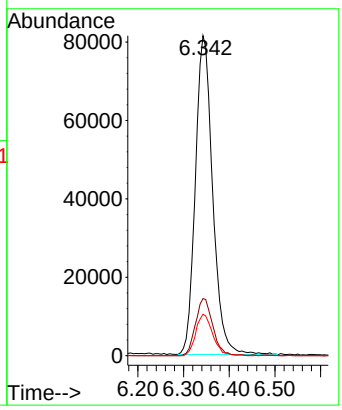


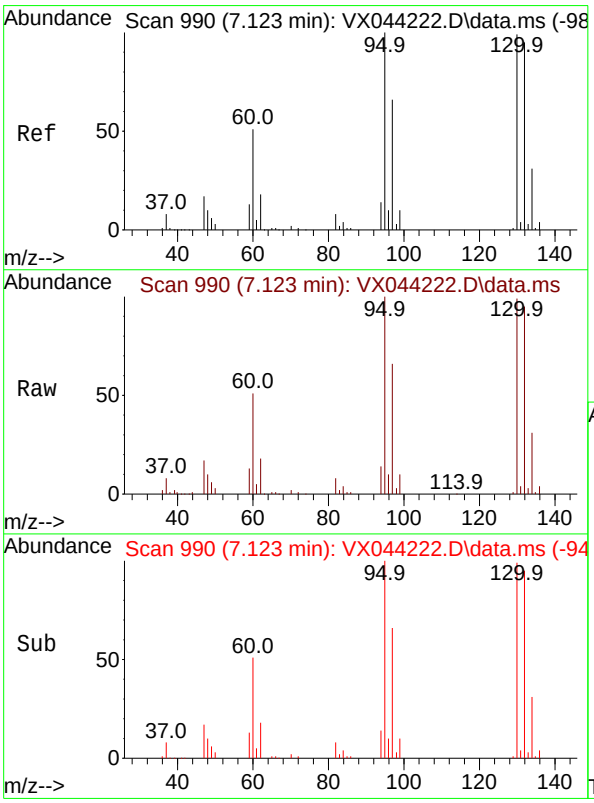
#43
Isopropyl Acetate
Concen: 52.961 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 213891

Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.2	21.2
87	12.7	10.2	15.2

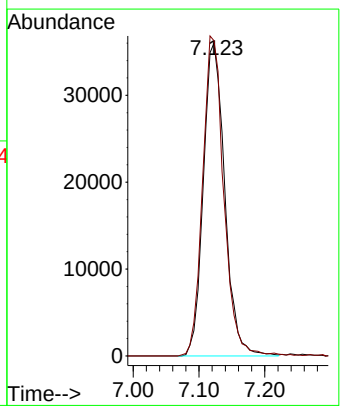


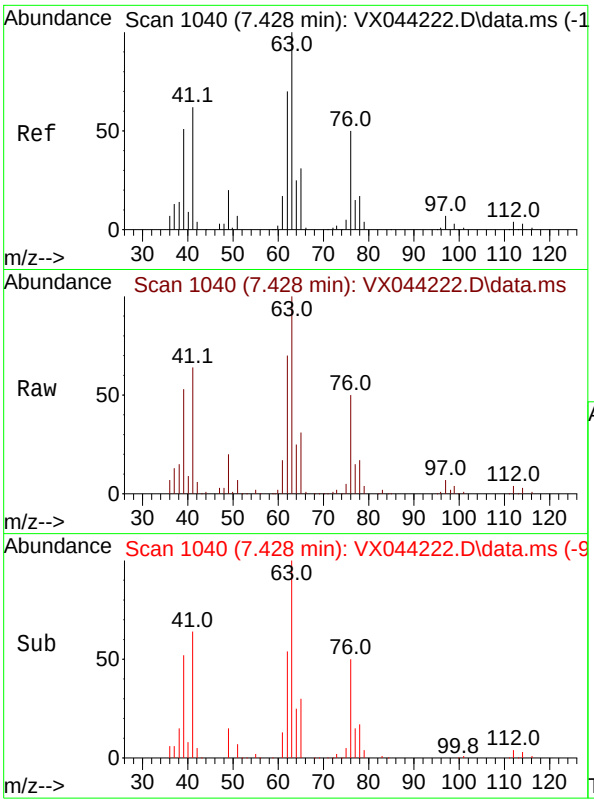


#44
Trichloroethene
Concen: 51.521 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:130 Resp: 81542

Ion	Ratio	Lower	Upper
130	100		
95	100.7	0.0	201.4



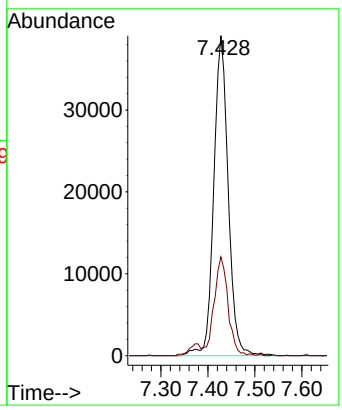


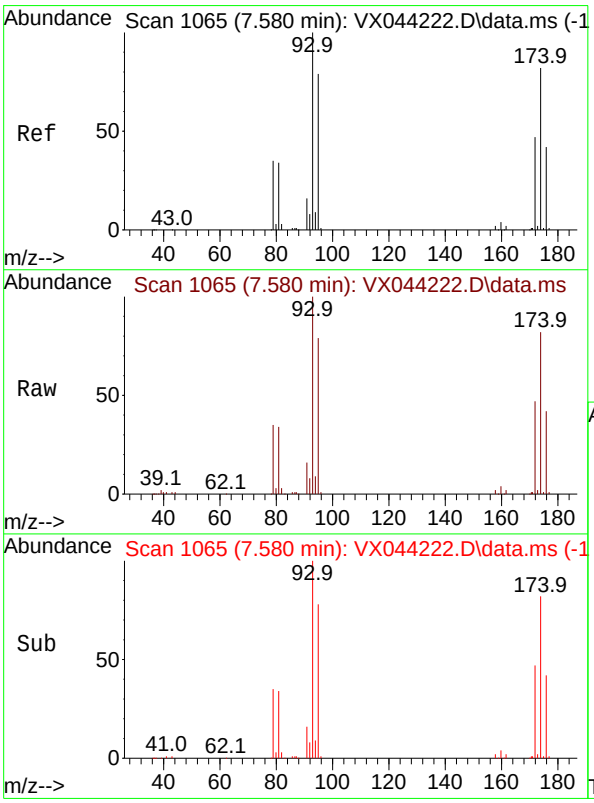
#45
1,2-Dichloropropane
Concen: 51.420 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 83376

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.6	37.0

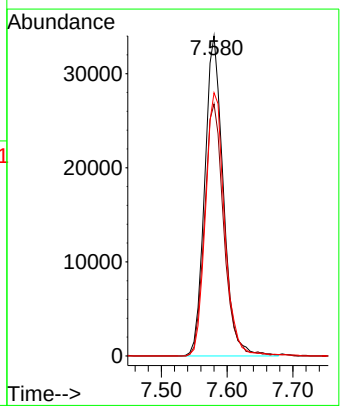


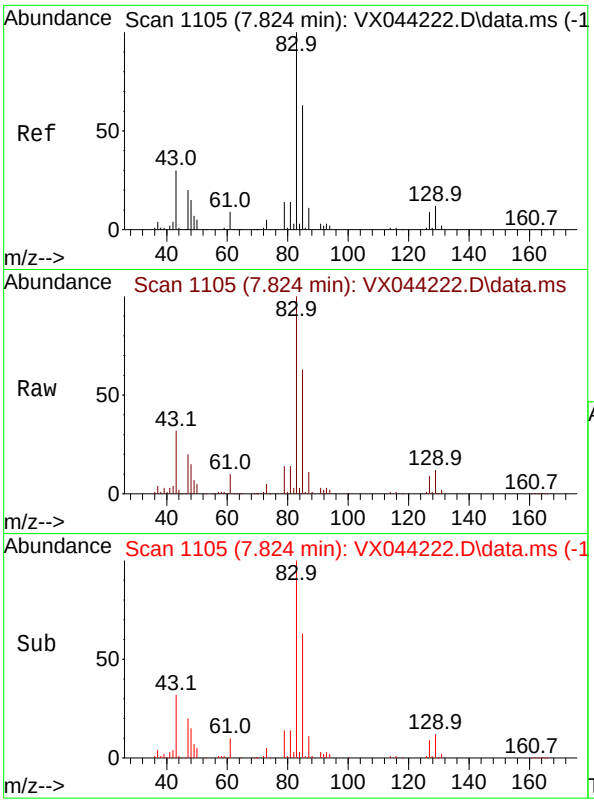


#46
Dibromomethane
Concen: 53.092 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 93 Resp: 66786

Ion	Ratio	Lower	Upper
93	100		
95	81.8	65.4	98.2
174	84.9	67.9	101.9



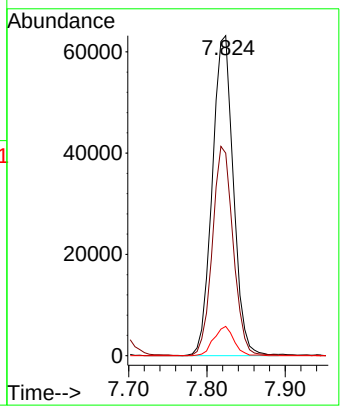


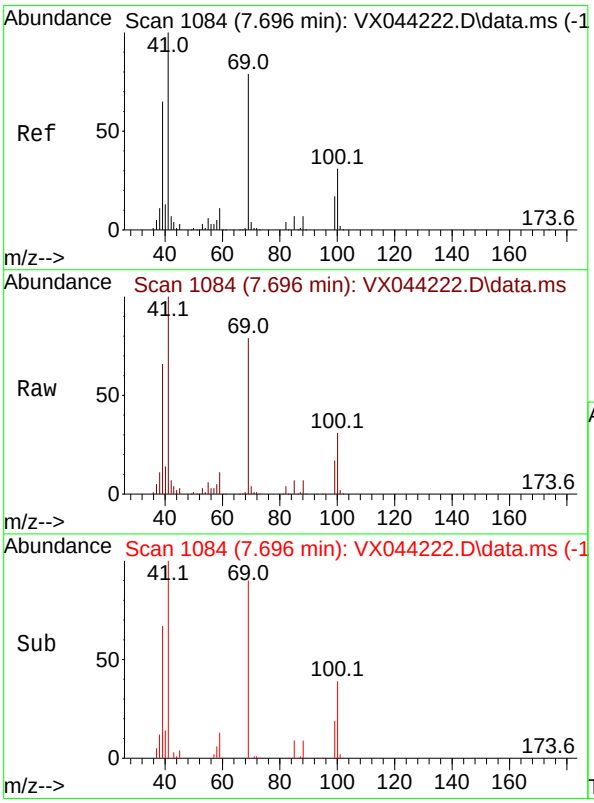
#47
Bromodichloromethane
Concen: 54.607 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 118634

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	9.1	7.3	10.9

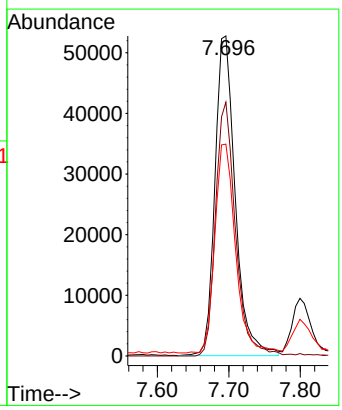


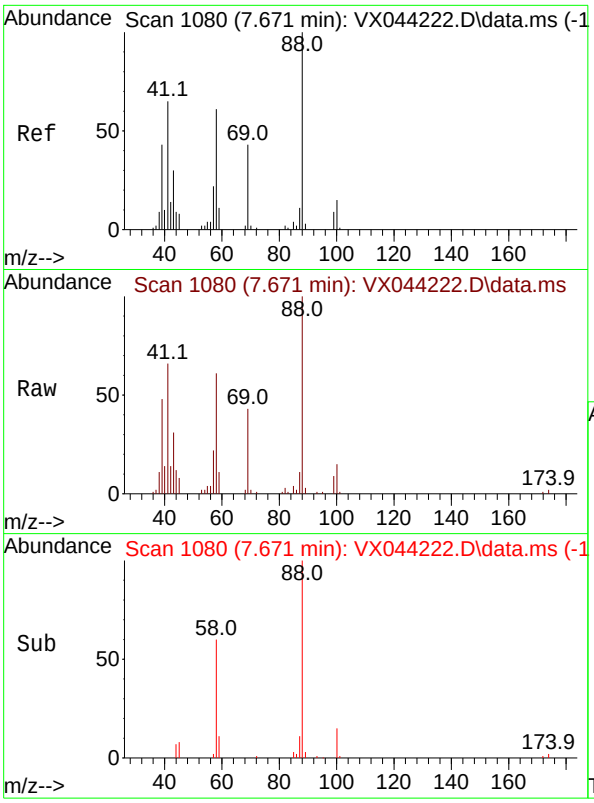


#48
Methyl methacrylate
Concen: 52.909 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 41 Resp: 103726

Ion	Ratio	Lower	Upper
41	100		
69	78.0	62.4	93.6
39	66.6	53.3	79.9



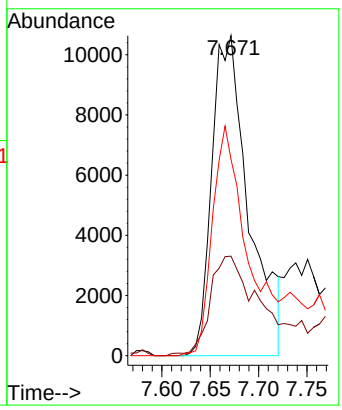


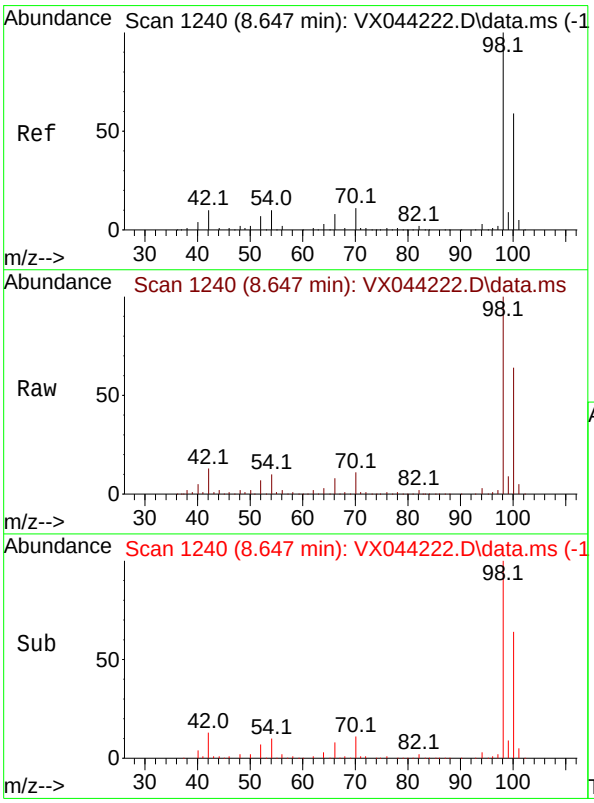
#49
1,4-Dioxane
Concen: 843.658 ug/l
RT: 7.671 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 28266

Ion	Ratio	Lower	Upper
88	100		
43	45.2	27.1	40.7#
58	68.3	41.0	61.4#

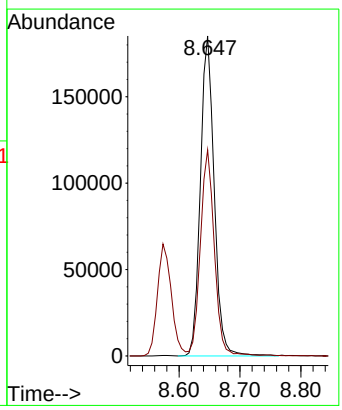


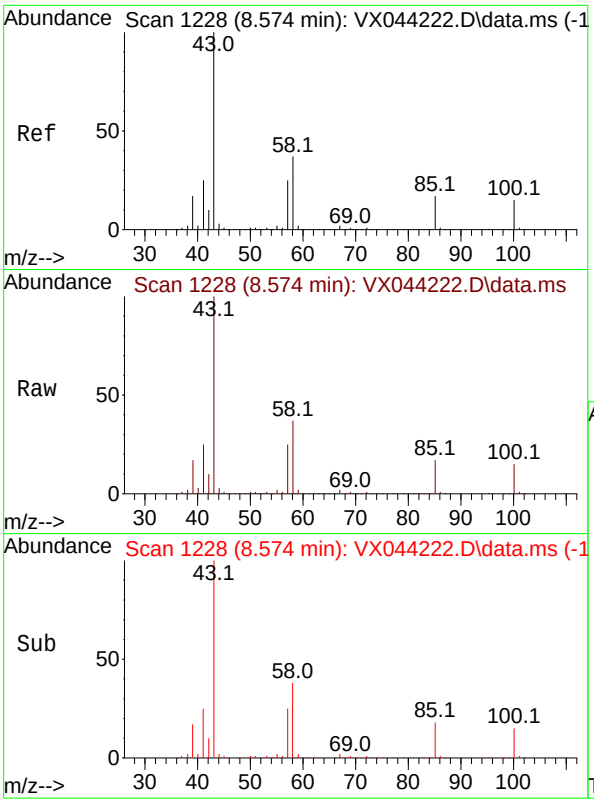


#50
Toluene-d8
Concen: 53.559 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 98 Resp: 292199

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.5	77.3



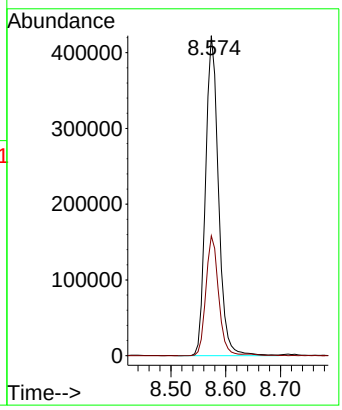


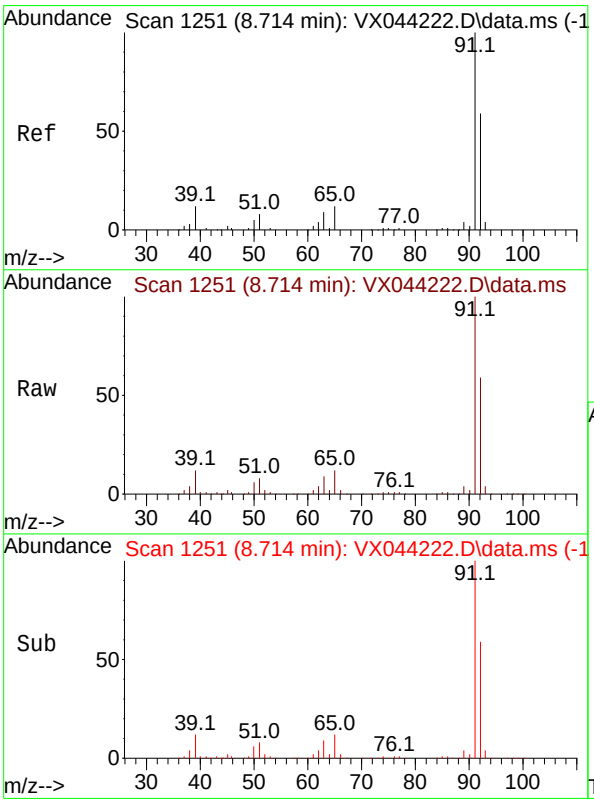
#51
4-Methyl-2-Pentanone
Concen: 265.203 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 688666

Ion	Ratio	Lower	Upper
43	100		
58	36.7	29.4	44.0

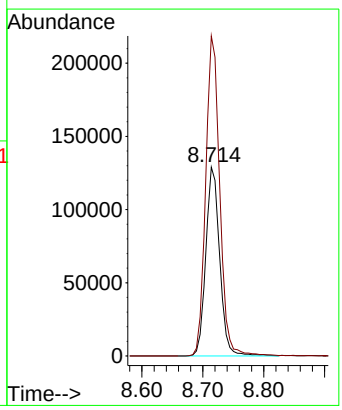


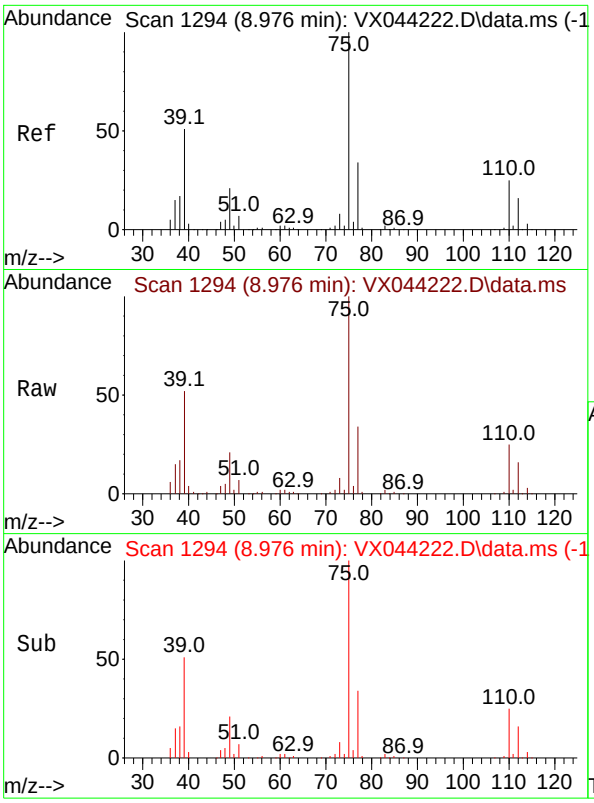


#52
Toluene
Concen: 51.370 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 92 Resp: 204738

Ion	Ratio	Lower	Upper
92	100		
91	171.3	137.0	205.6



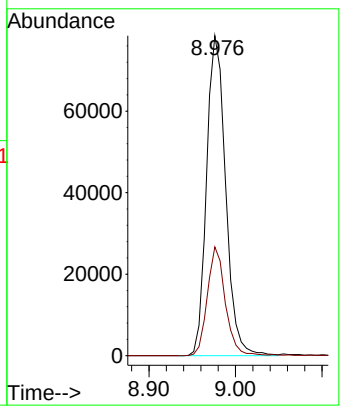


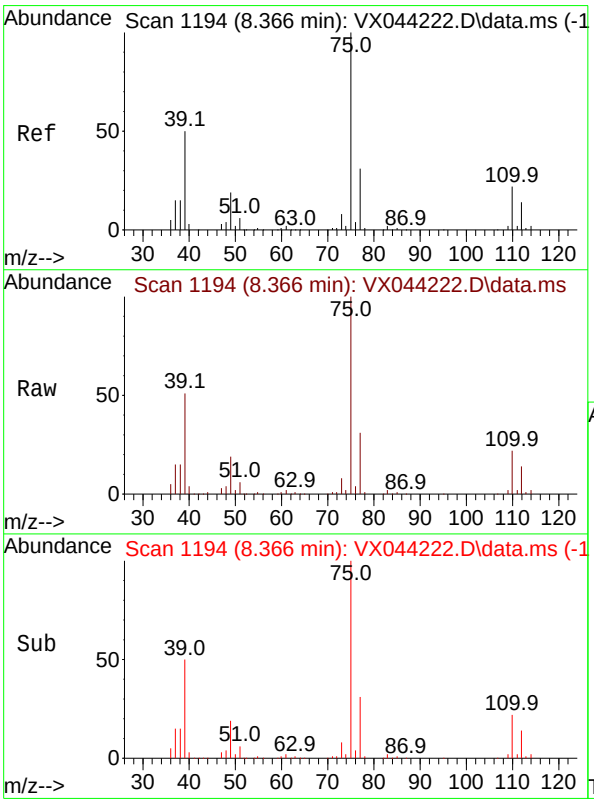
#53
t-1,3-Dichloropropene
Concen: 51.362 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 120007

Ion	Ratio	Lower	Upper
75	100		
77	34.0	27.2	40.8

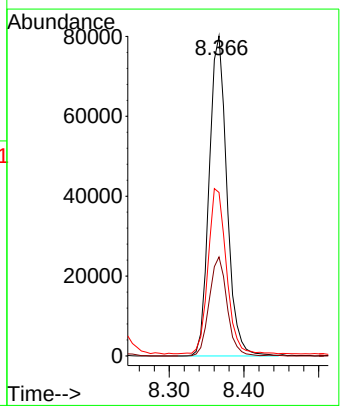


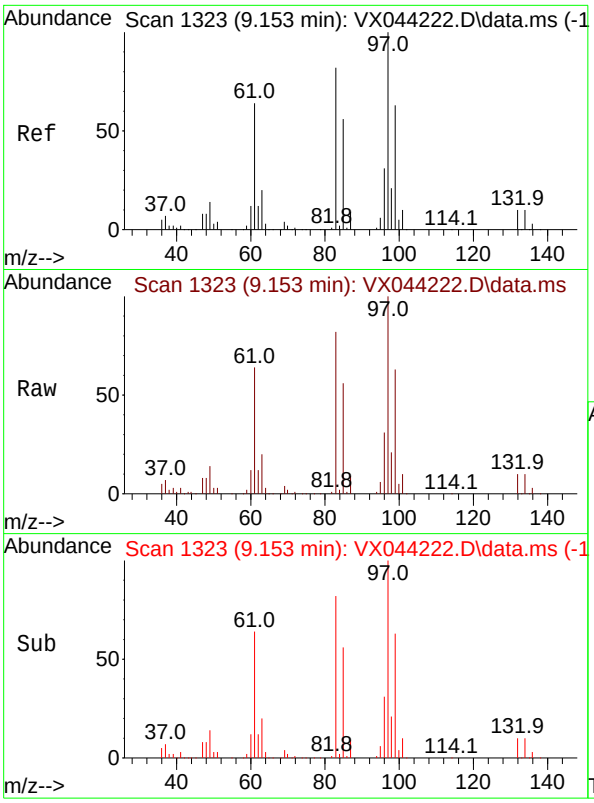


#54
cis-1,3-Dichloropropene
Concen: 55.923 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 132286

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.7	37.1
39	50.4	40.3	60.5



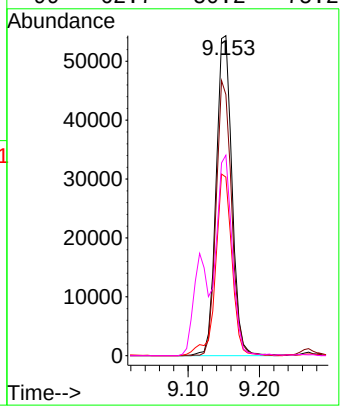


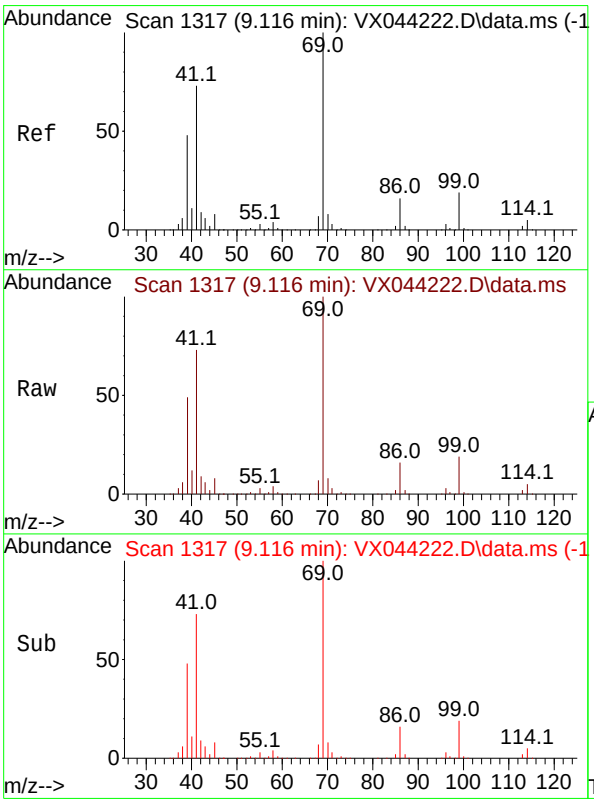
#55
1,1,2-Trichloroethane
Concen: 52.729 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 83488

Ion	Ratio	Lower	Upper
97	100		
83	81.6	65.3	97.9
85	55.8	44.6	67.0
99	62.7	50.2	75.2

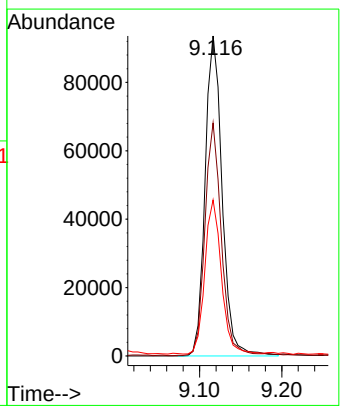


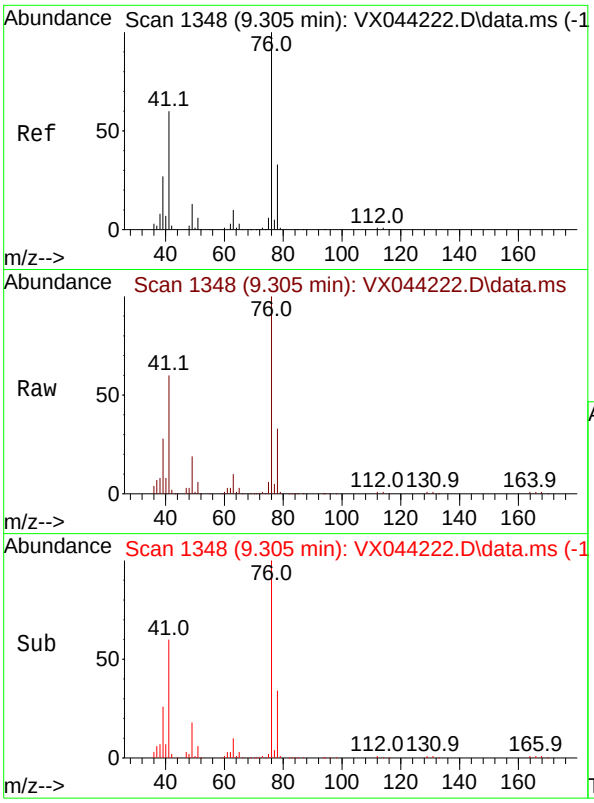


#56
Ethyl methacrylate
Concen: 53.917 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 69 Resp: 134770

Ion	Ratio	Lower	Upper
69	100		
41	70.8	56.6	85.0
39	46.7	37.4	56.0



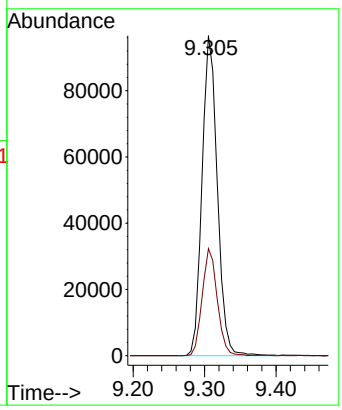


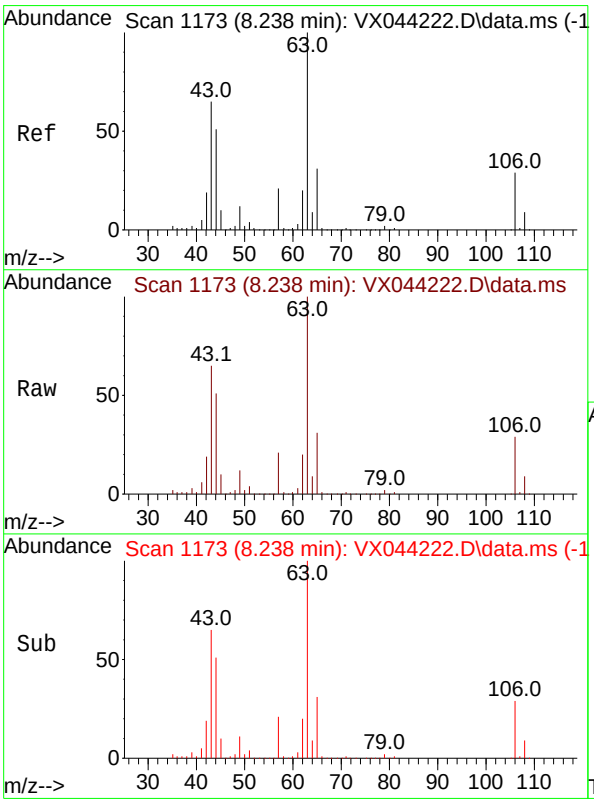
#57
1,3-Dichloropropane
Concen: 51.904 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 143044

Ion	Ratio	Lower	Upper
76	100		
78	33.1	26.5	39.7

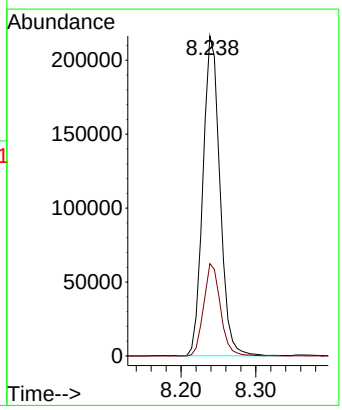


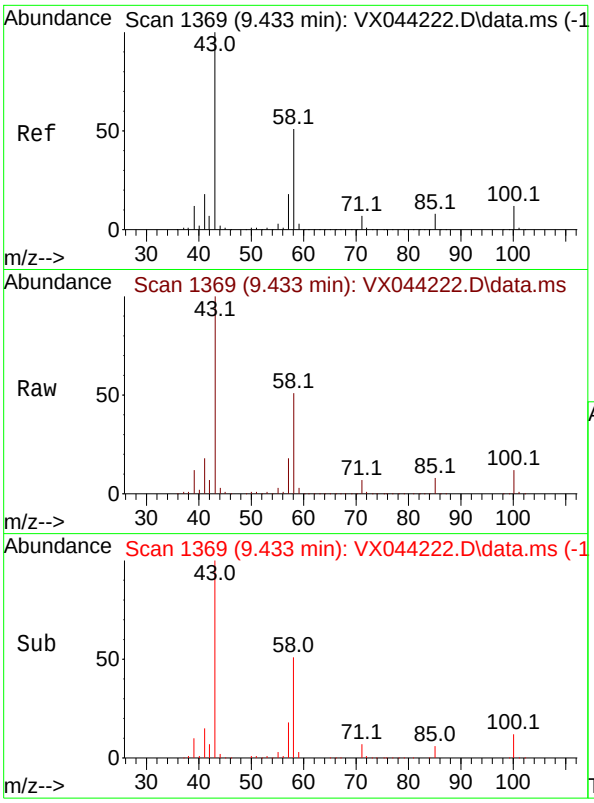


#58
2-Chloroethyl Vinyl ether
Concen: 271.745 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 63 Resp: 342592

Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.8	34.2



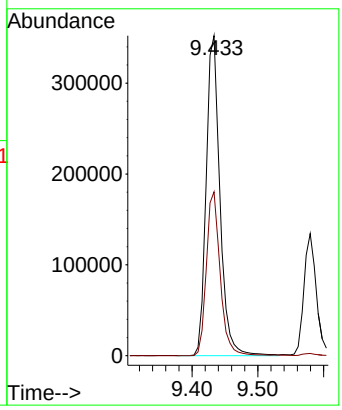


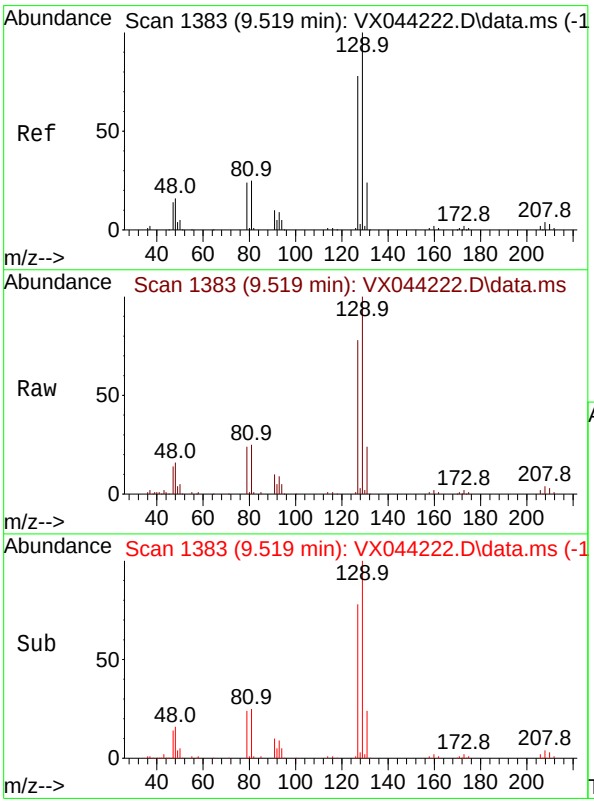
#59
2-Hexanone
Concen: 272.881 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 512906

Ion	Ratio	Lower	Upper
43	100		
58	51.3	25.7	77.0

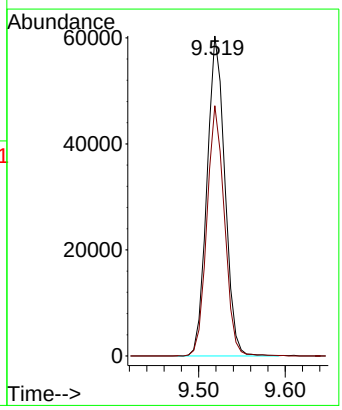


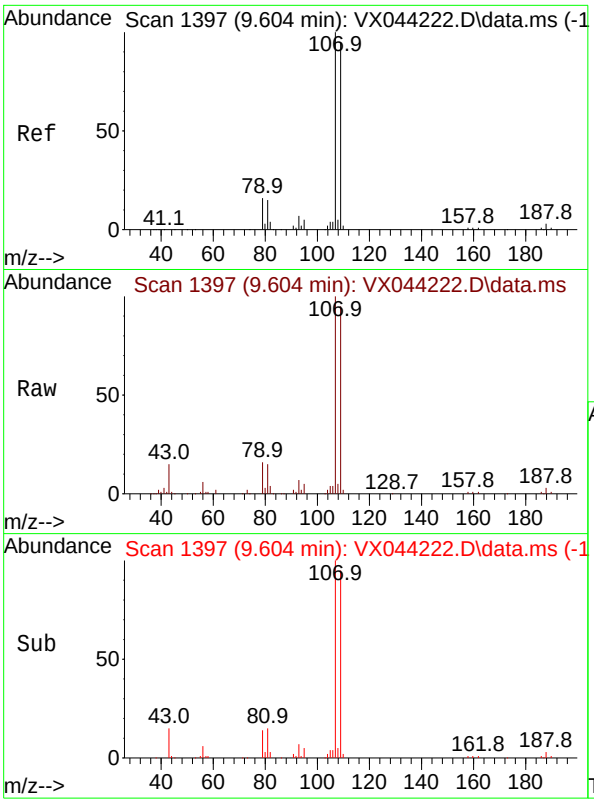


#60
Dibromochloromethane
Concen: 51.400 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:129 Resp: 86352

Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.5	115.3



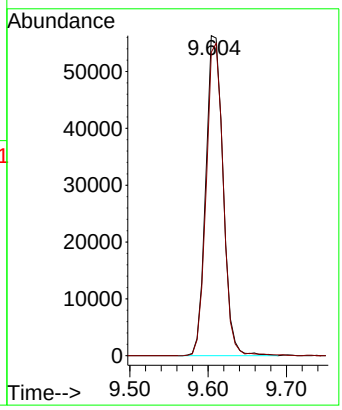


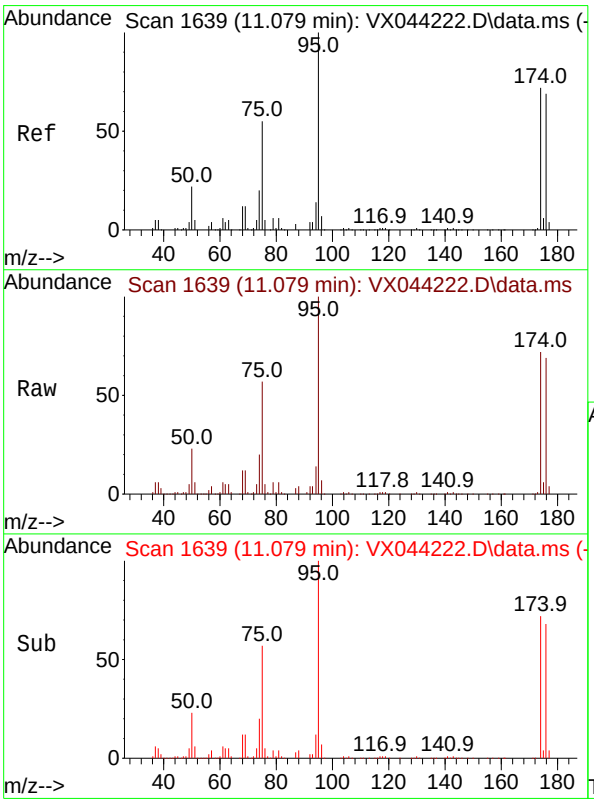
#61
1,2-Dibromoethane
Concen: 53.454 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 86150

Ion	Ratio	Lower	Upper
107	100		
109	96.2	77.0	115.4

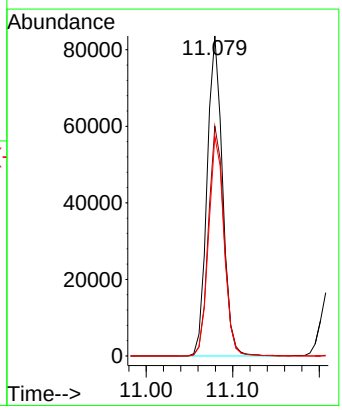


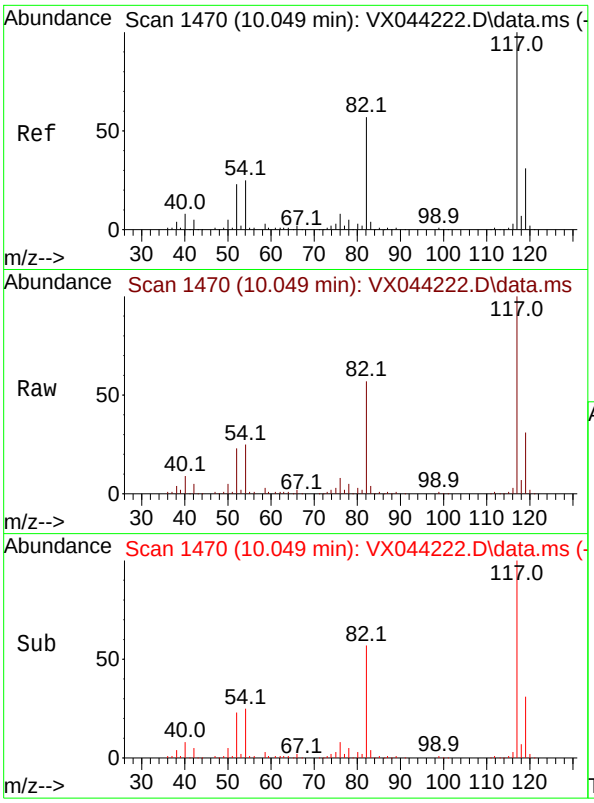


#62
4-Bromofluorobenzene
Concen: 54.123 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 95 Resp: 103178

Ion	Ratio	Lower	Upper
95	100		
174	72.9	0.0	145.8
176	68.9	0.0	137.8



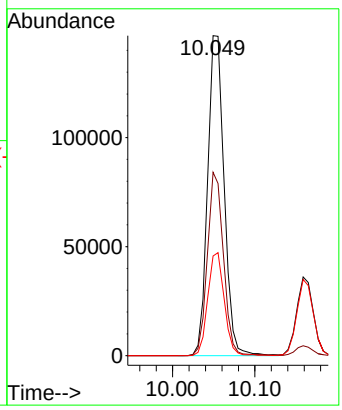


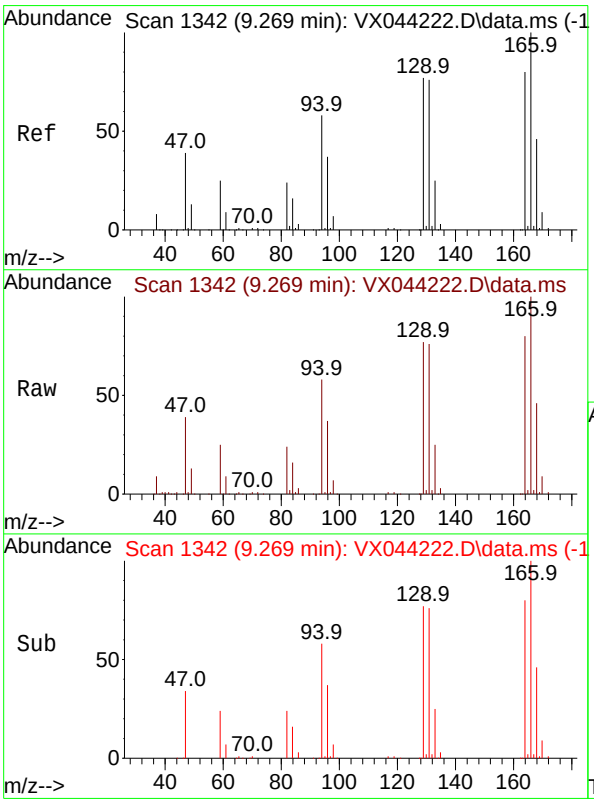
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 205196

Ion	Ratio	Lower	Upper
117	100		
82	57.3	45.8	68.8
119	31.2	25.0	37.4

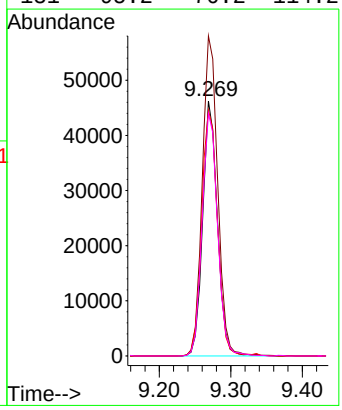


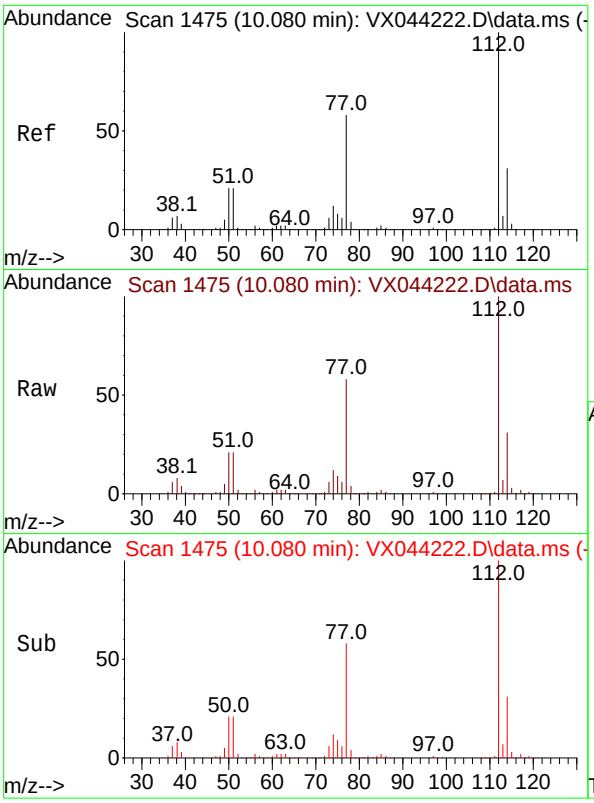


#64
Tetrachloroethene
Concen: 48.379 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:164 Resp: 65888

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	96.5	77.2	115.8
131	95.2	76.2	114.2



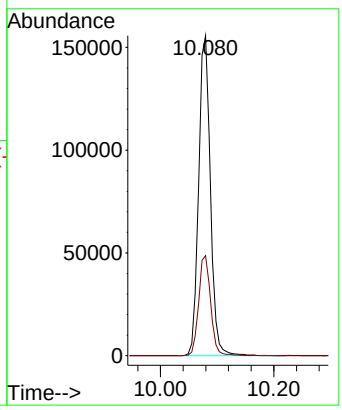


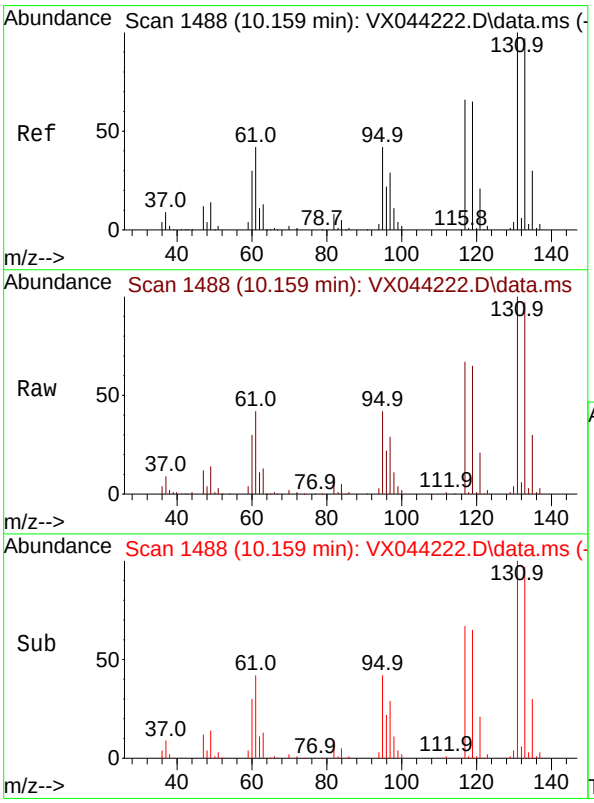
#65
Chlorobenzene
Concen: 50.779 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 223269

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6

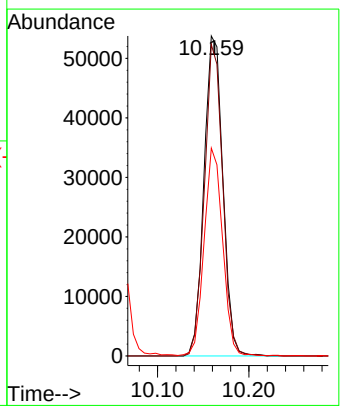


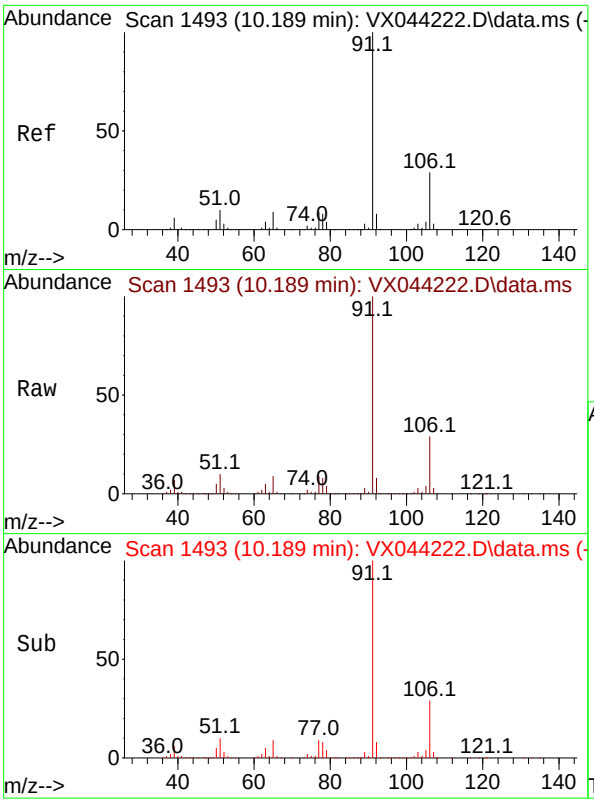


#66
1,1,1,2-Tetrachloroethane
Concen: 54.396 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:131 Resp: 76867

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	141.8
119	63.3	31.6	95.0



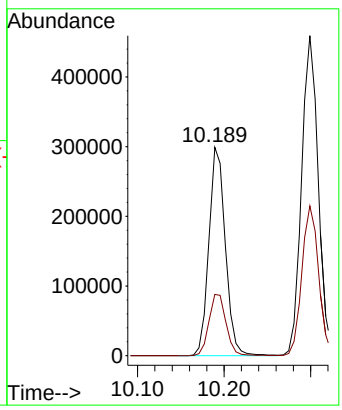


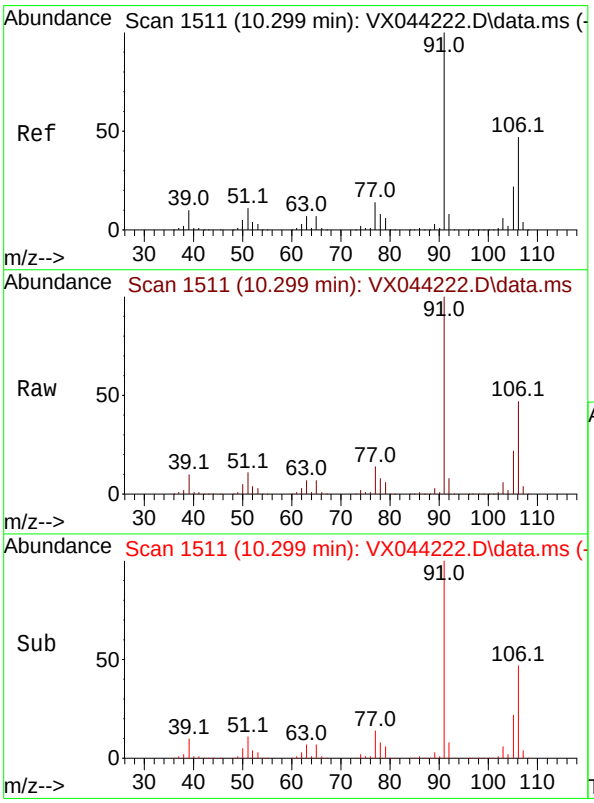
#67
Ethyl Benzene
Concen: 52.050 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 395430

Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.5	35.3

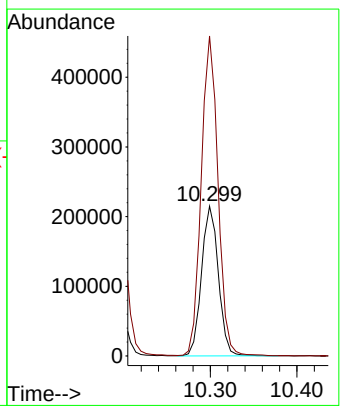


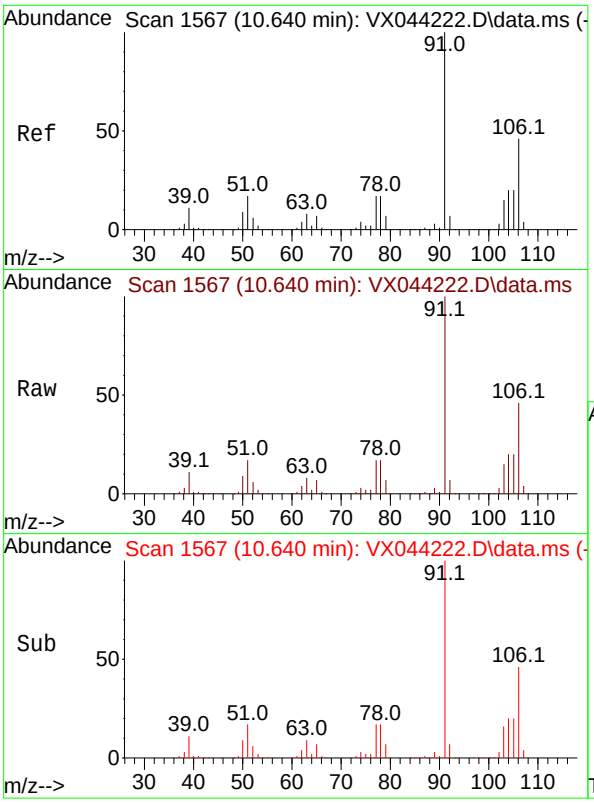


#68
m/p-Xylenes
Concen: 104.094 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:106 Resp: 290181

Ion	Ratio	Lower	Upper
106	100		
91	212.7	170.2	255.2



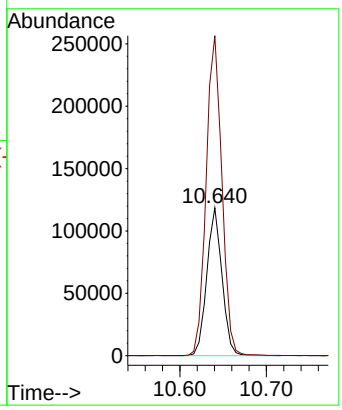


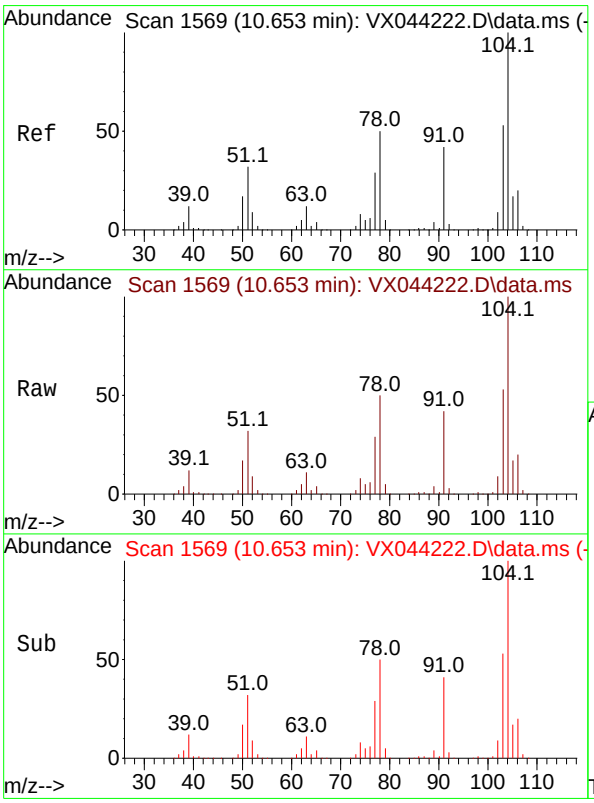
#69
o-Xylene
Concen: 51.141 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 144247

Ion	Ratio	Lower	Upper
106	100		
91	224.7	112.3	337.0

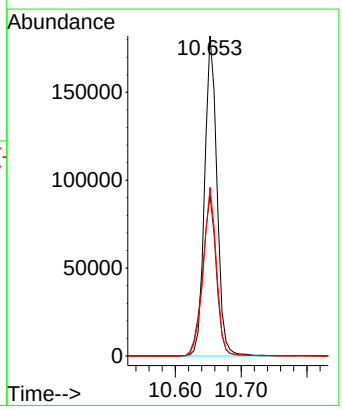


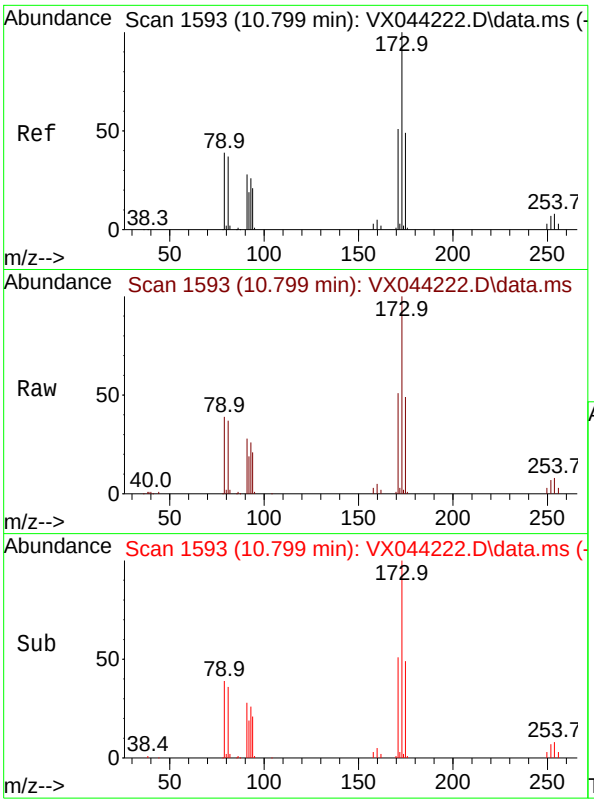


#70
Styrene
Concen: 52.719 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:104 Resp: 238379

Ion	Ratio	Lower	Upper
104	100		
78	55.8	44.6	67.0
103	56.7	45.4	68.0



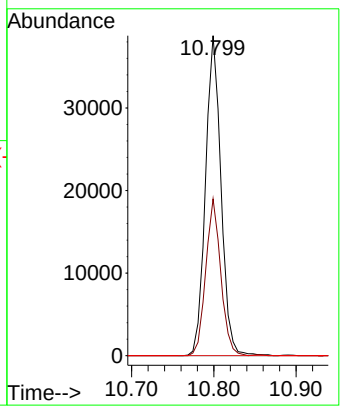


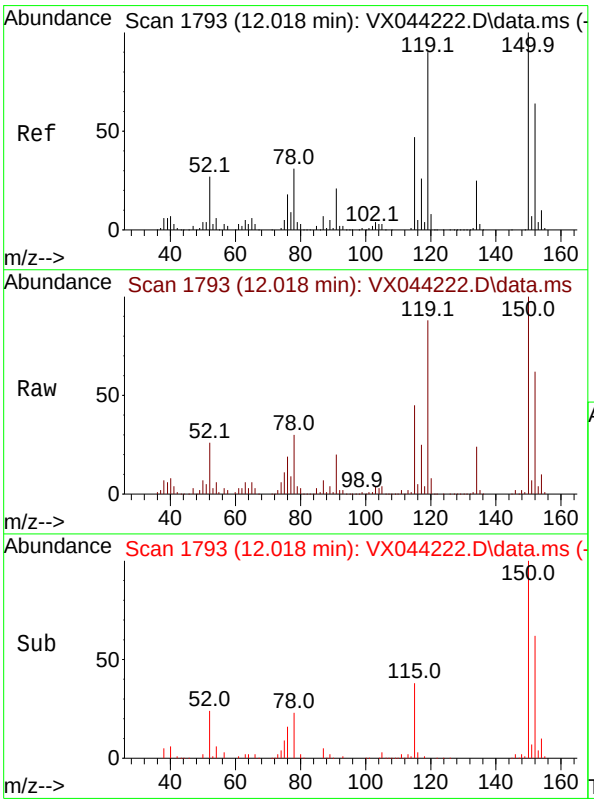
#71
Bromoform
Concen: 51.158 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 50667

Ion	Ratio	Lower	Upper
173	100		
175	47.6	23.8	71.4
254	0.0	0.0	0.0

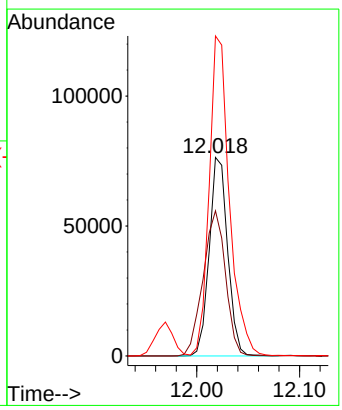


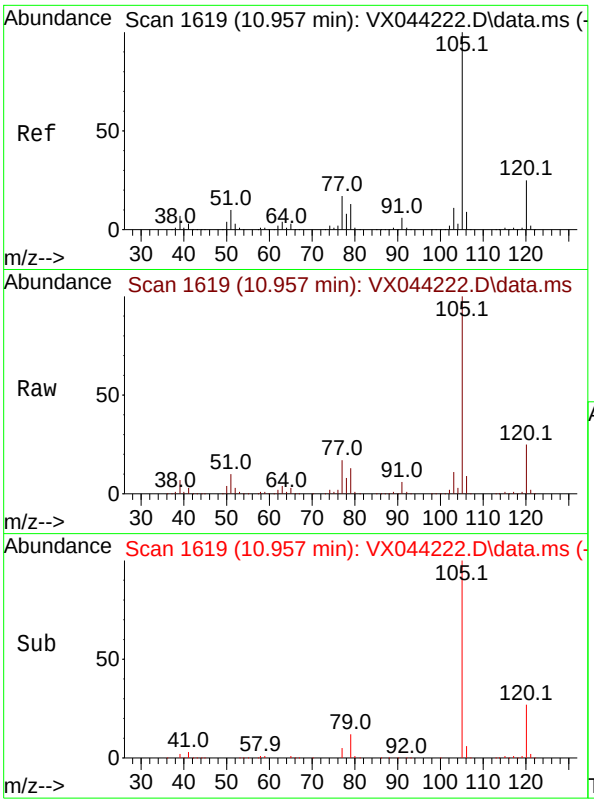


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:152 Resp: 95227

Ion	Ratio	Lower	Upper
152	100		
115	88.9	44.5	133.3
150	176.9	0.0	353.8



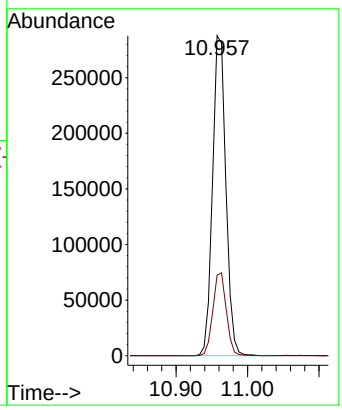


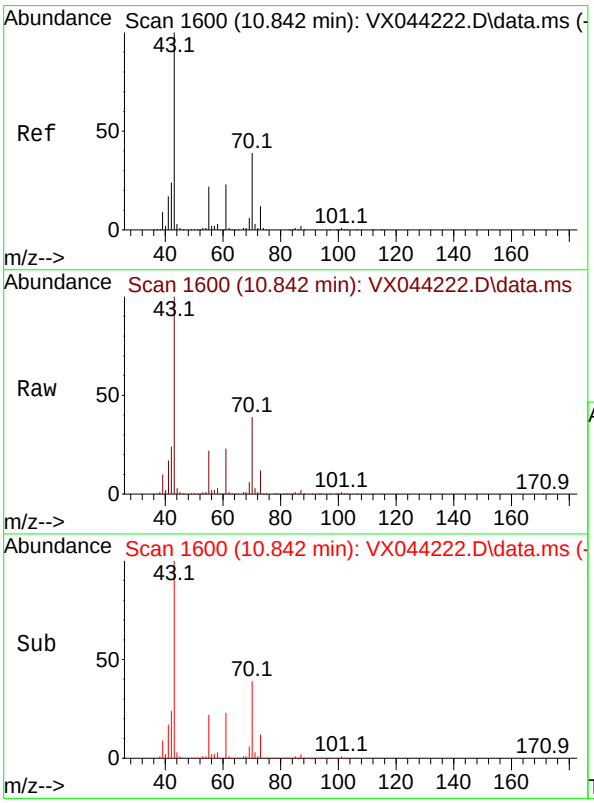
#73
Isopropylbenzene
Concen: 51.100 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 372519

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.1	39.3

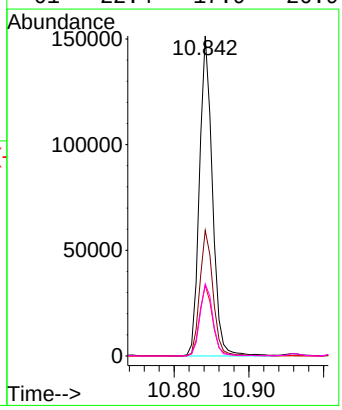


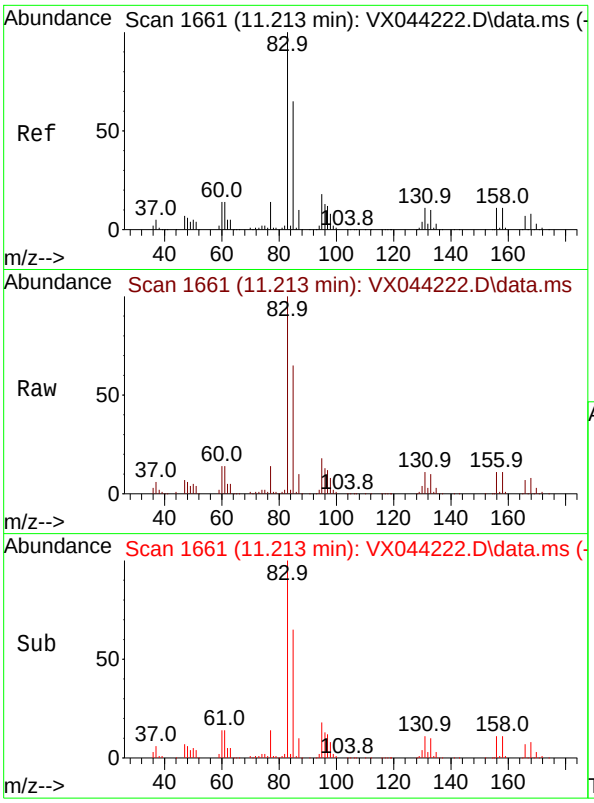


#74
N-amyl acetate
Concen: 54.166 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 182491

Ion	Ratio	Lower	Upper
43	100		
70	39.9	31.9	47.9
55	22.4	17.9	26.9
61	22.4	17.9	26.9



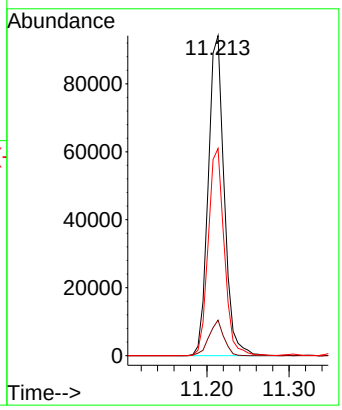


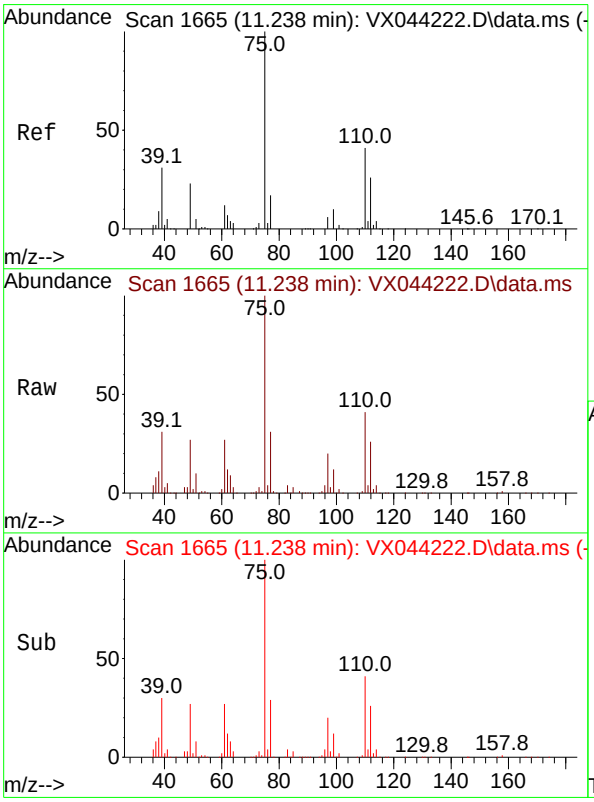
#75
1,1,2,2-Tetrachloroethane
Concen: 50.233 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 127193

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	64.9	32.5	97.4

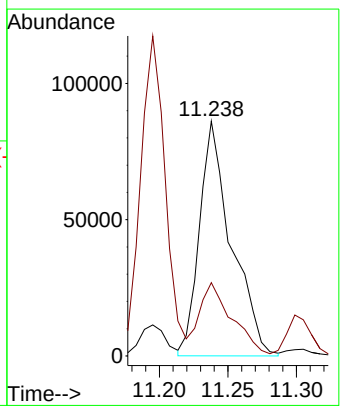


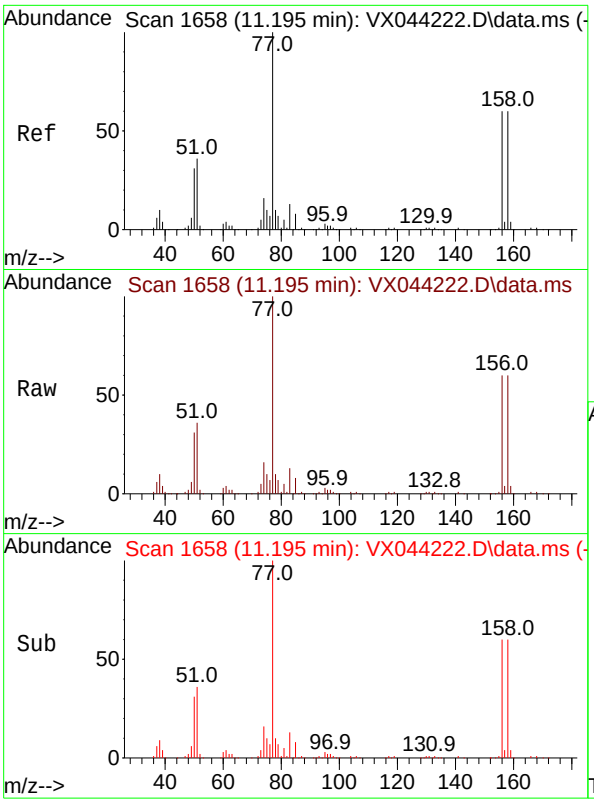


#76
1,2,3-Trichloropropane
Concen: 64.698 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 139805

Ion	Ratio	Lower	Upper
75	100		
77	32.0	20.9	62.7



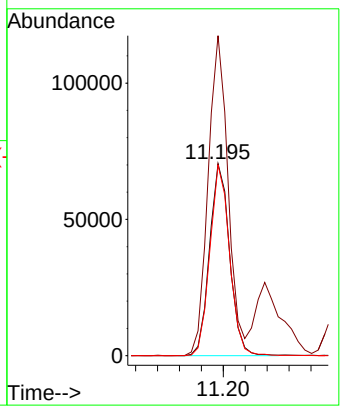


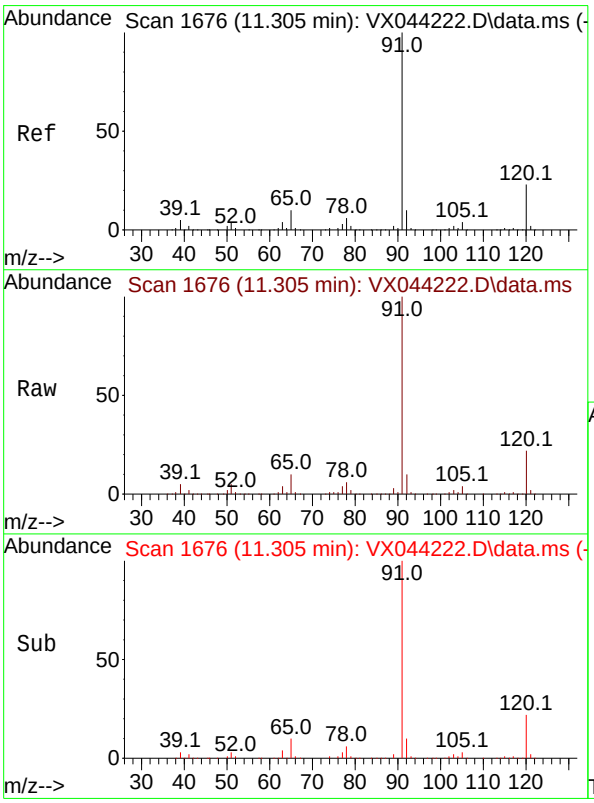
#77
Bromobenzene
Concen: 50.734 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 89687

Ion	Ratio	Lower	Upper
156	100		
77	165.2	82.6	247.8
158	97.6	48.8	146.4

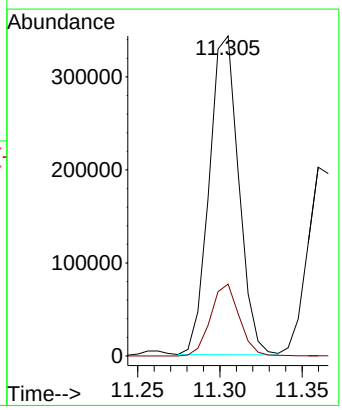


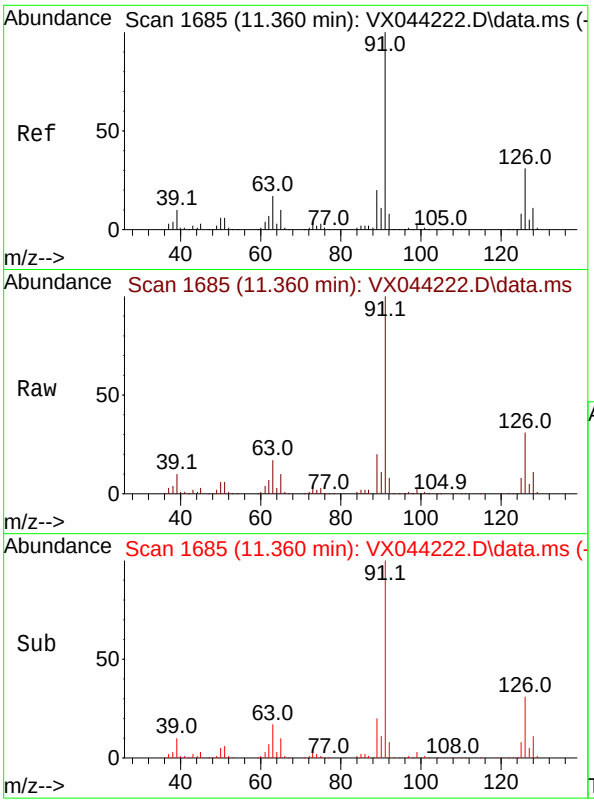


#78
n-propylbenzene
Concen: 53.211 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 91 Resp: 428741

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.0	33.0



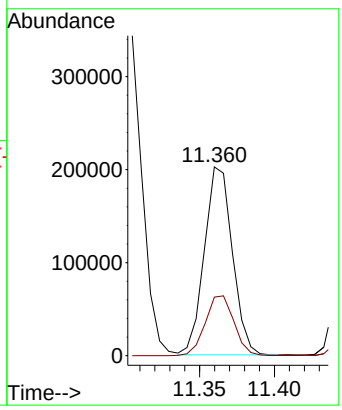


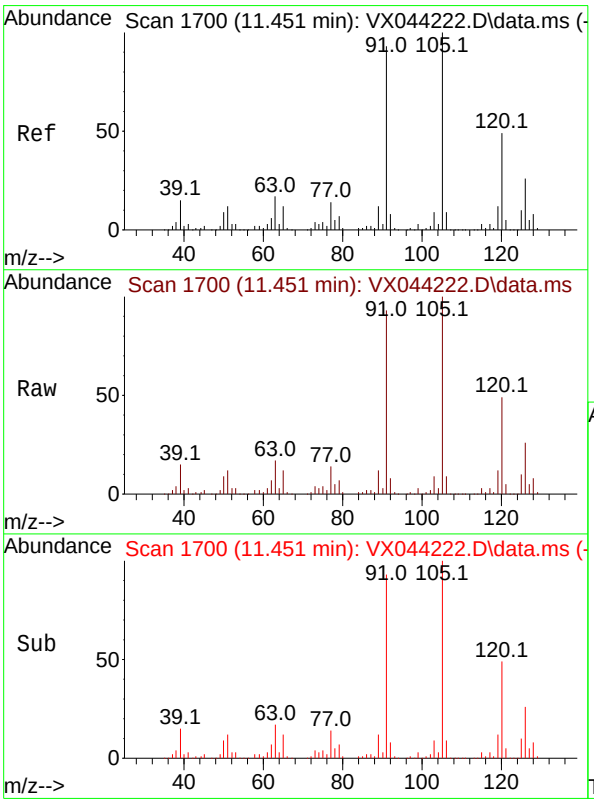
#79
2-Chlorotoluene
Concen: 50.634 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 263849

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.4	49.1

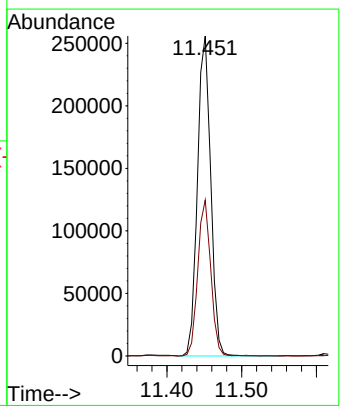


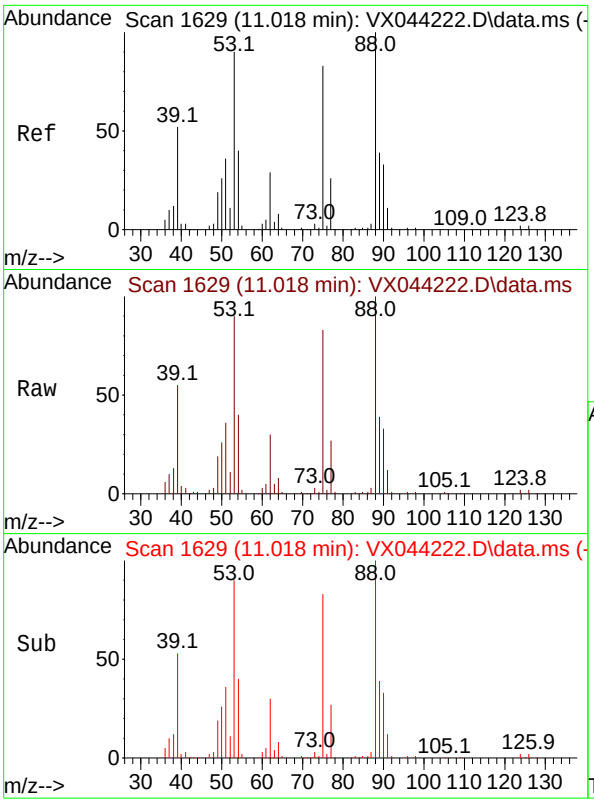


#80
1,3,5-Trimethylbenzene
Concen: 52.102 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:105 Resp: 314986

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.4



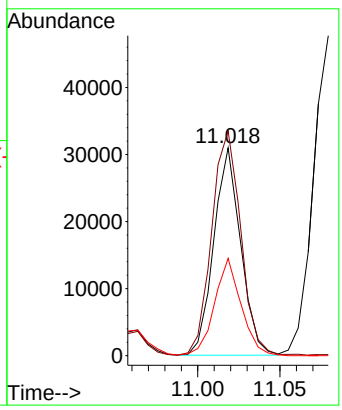


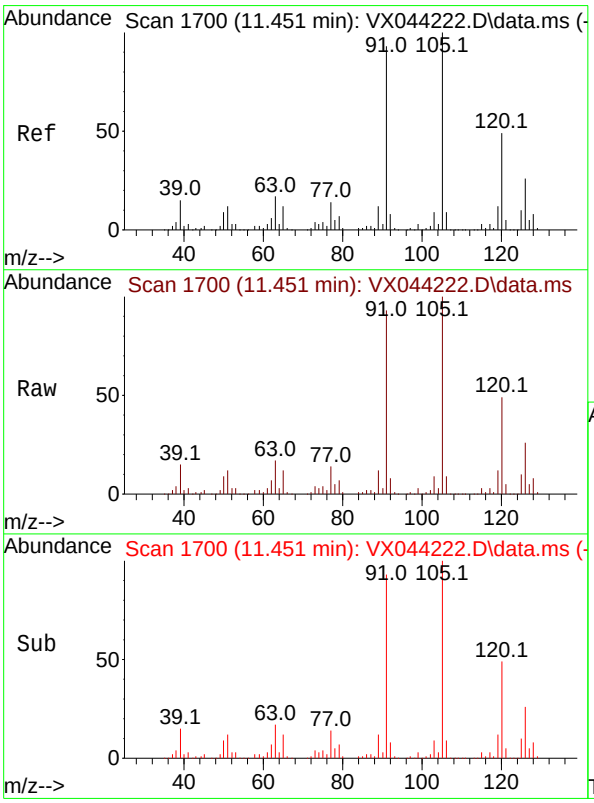
#81
trans-1,4-Dichloro-2-butene
Concen: 47.628 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 35119

Ion	Ratio	Lower	Upper
75	100		
53	117.0	93.6	140.4
89	46.6	37.3	55.9

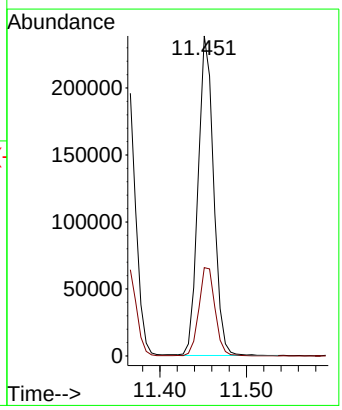


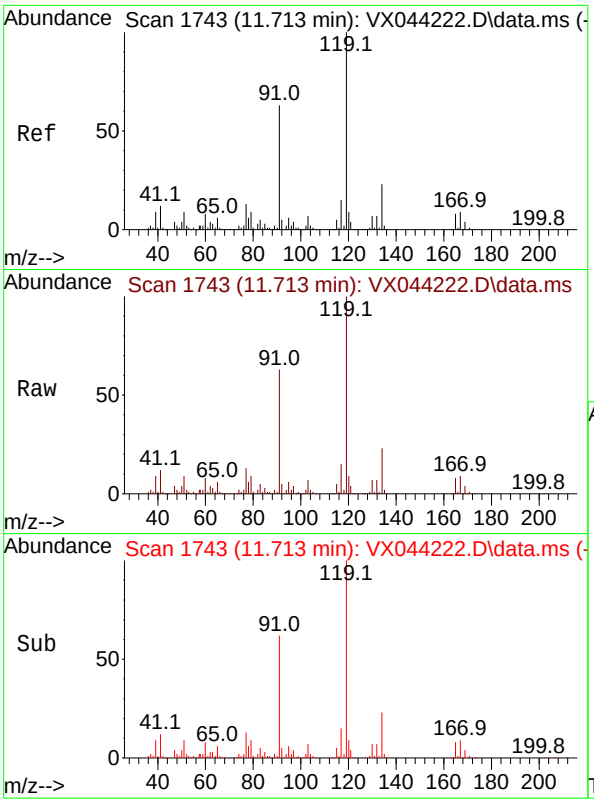


#82
4-Chlorotoluene
Concen: 51.387 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 91 Resp: 296520

Ion	Ratio	Lower	Upper
91	100		
126	29.0	14.5	43.5



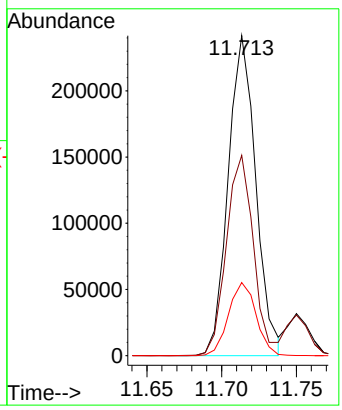


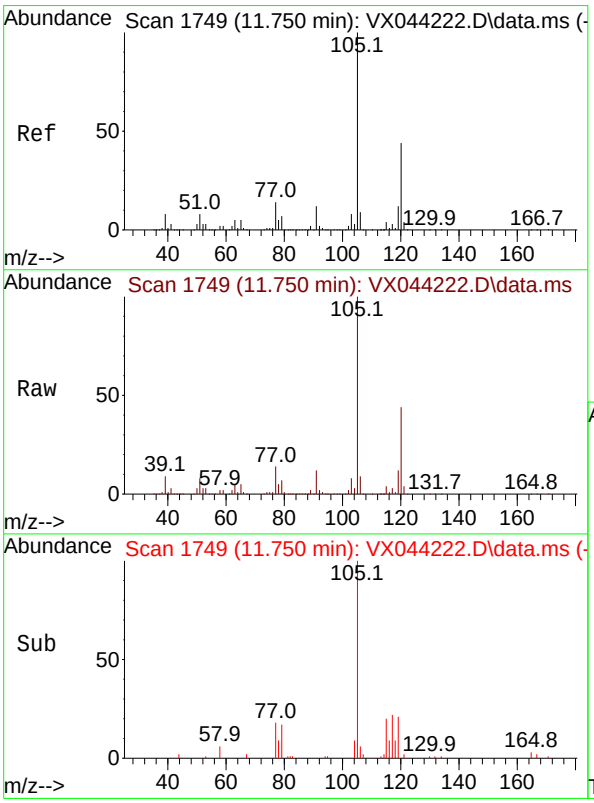
#83
tert-Butylbenzene
Concen: 51.940 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 310320

Ion	Ratio	Lower	Upper
119	100		
91	61.7	30.9	92.5
134	22.9	11.5	34.4

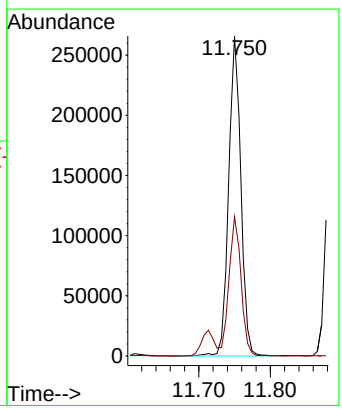


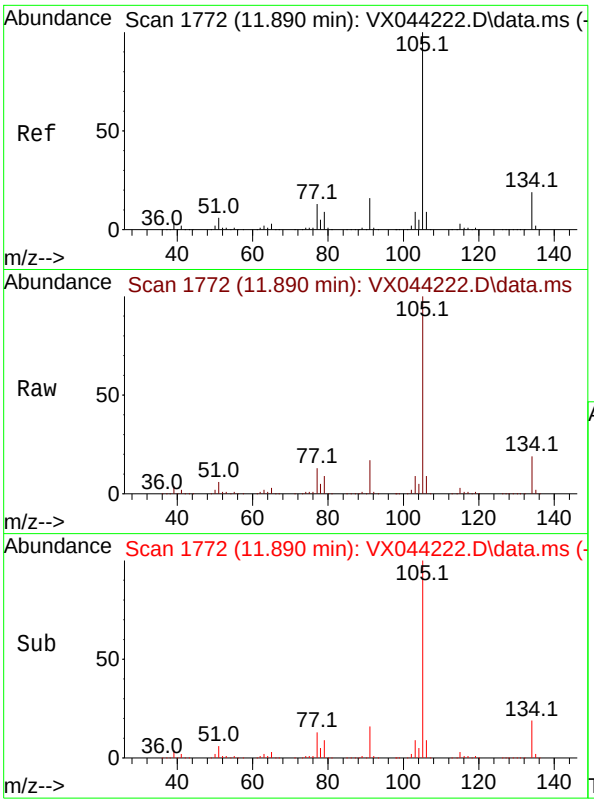


#84
1,2,4-Trimethylbenzene
Concen: 52.776 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:105 Resp: 313338

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.7	65.1



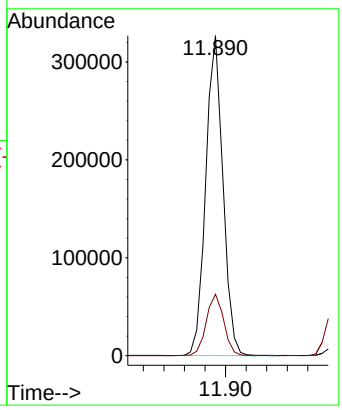


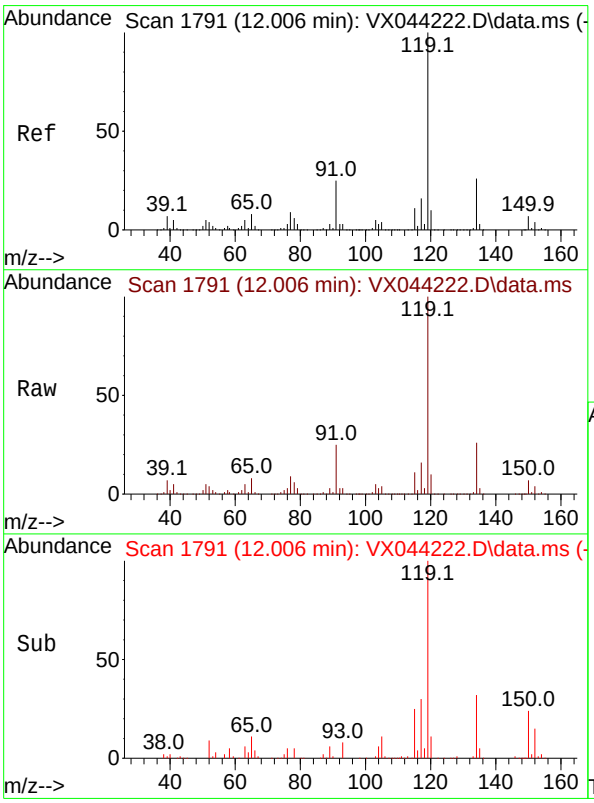
#85
sec-Butylbenzene
Concen: 52.329 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 379552

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4

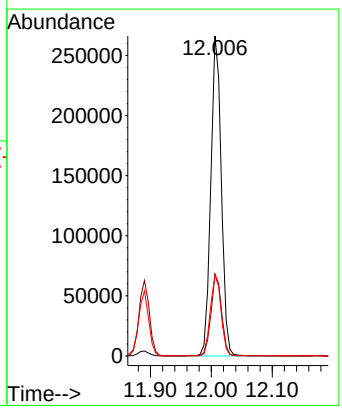


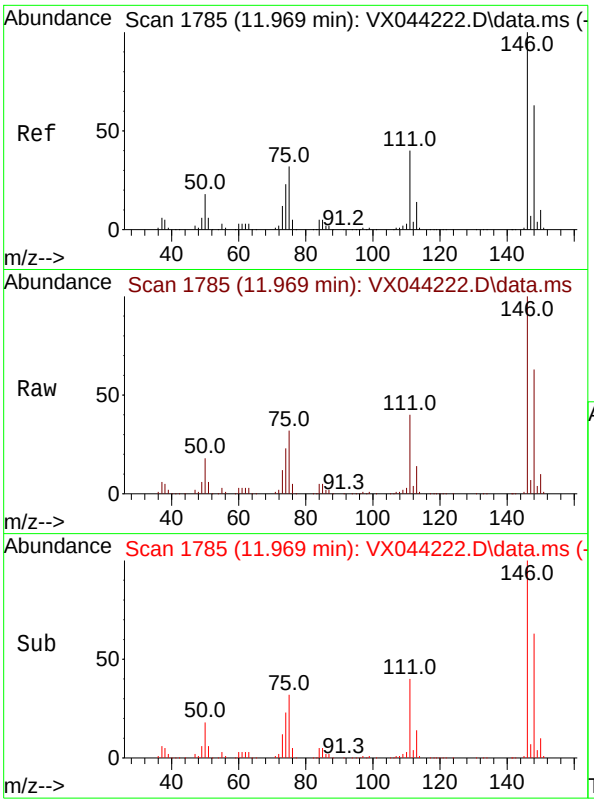


#86
p-Isopropyltoluene
Concen: 52.796 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:119 Resp: 318721

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.4
91	26.0	13.0	39.0



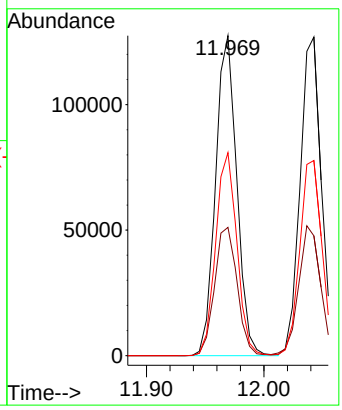


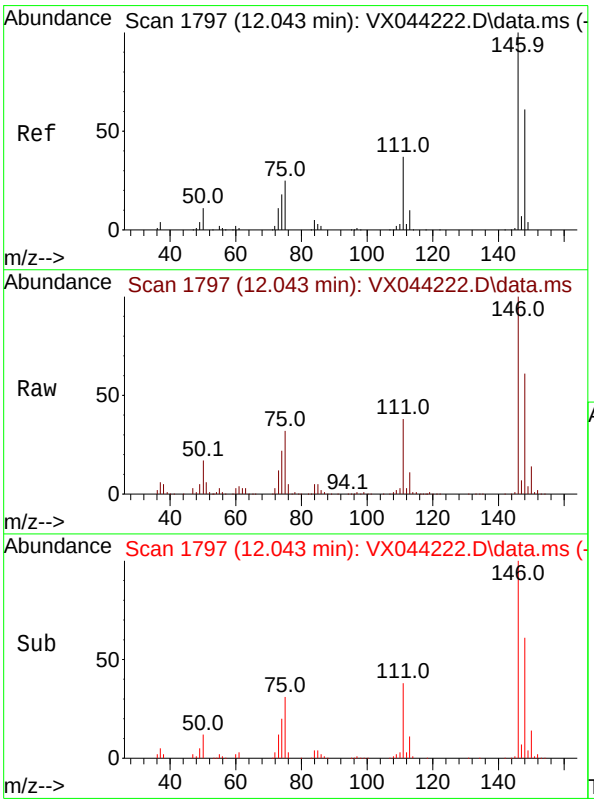
#87
1,3-Dichlorobenzene
Concen: 51.887 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 160223

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.4	64.2
148	63.4	31.7	95.1

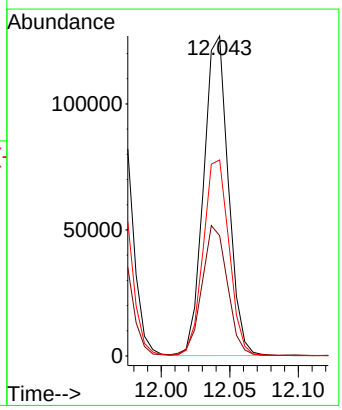


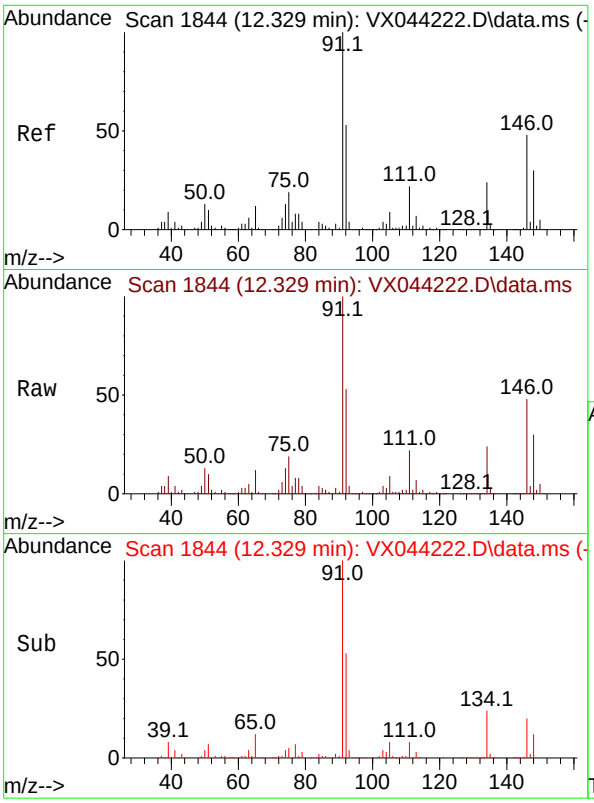


#88
1,4-Dichlorobenzene
Concen: 50.171 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:146 Resp: 159258

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.0	63.0
148	64.5	32.3	96.8



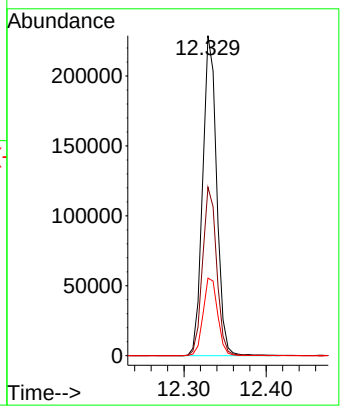


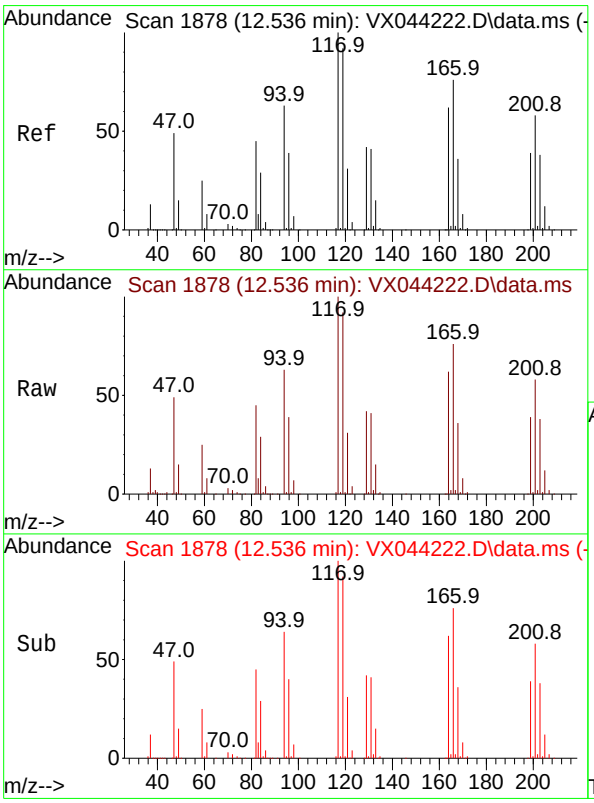
#89
n-Butylbenzene
Concen: 53.354 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 270840

Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.6	79.7
134	25.2	12.6	37.8

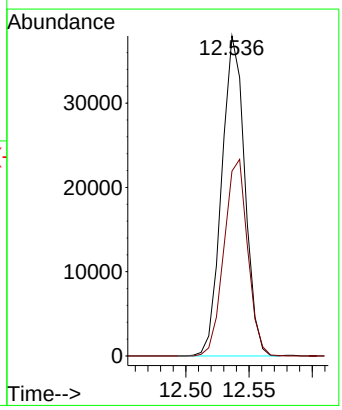


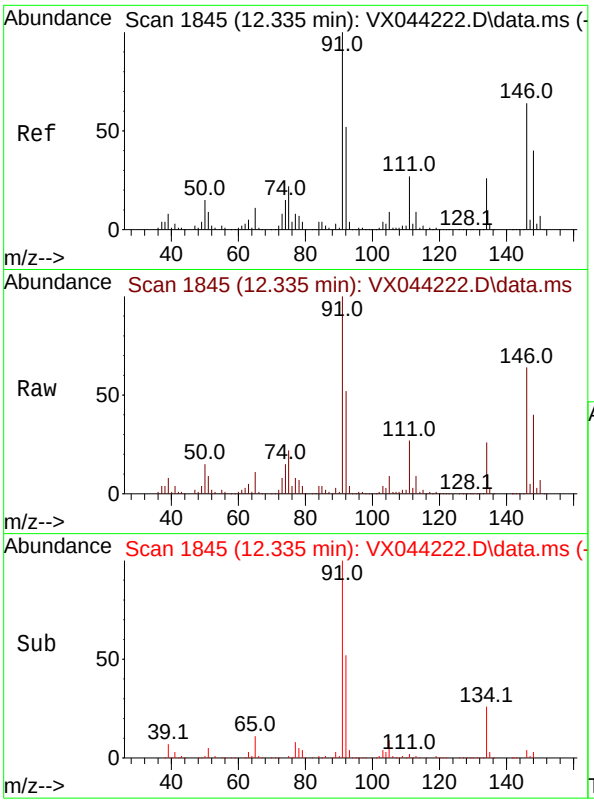


#90
Hexachloroethane
Concen: 54.813 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:117 Resp: 48303

Ion	Ratio	Lower	Upper
117	100		
201	62.8	31.4	94.2



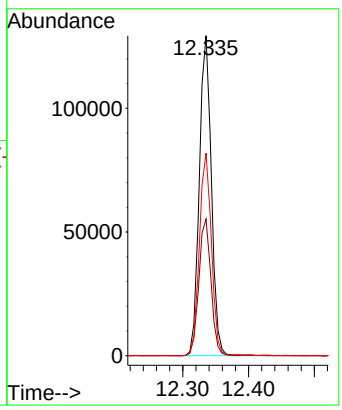


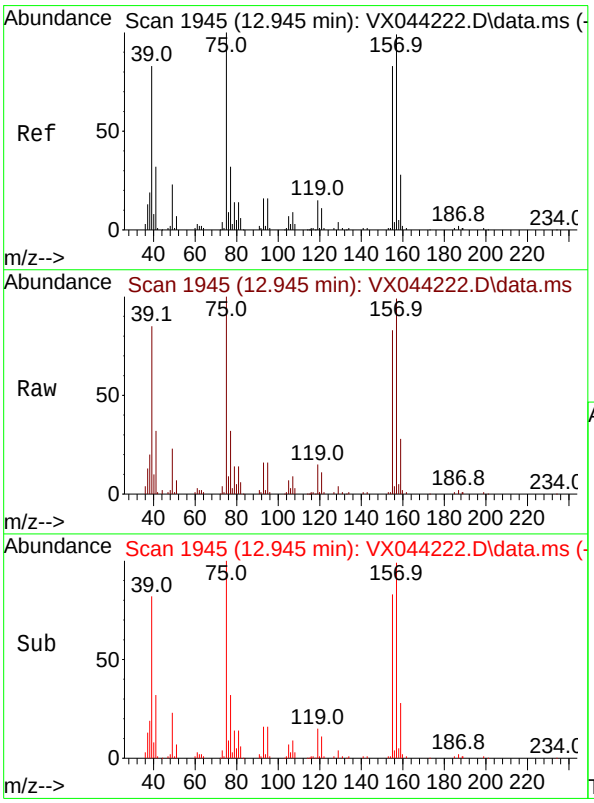
#91
1,2-Dichlorobenzene
Concen: 51.256 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 164342

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.4	64.3
148	63.3	31.6	95.0

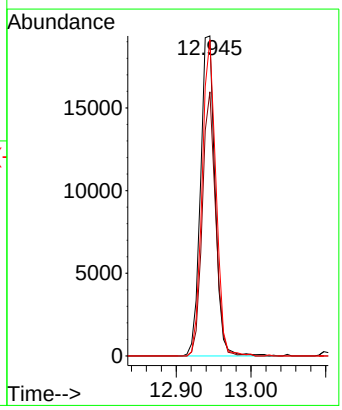


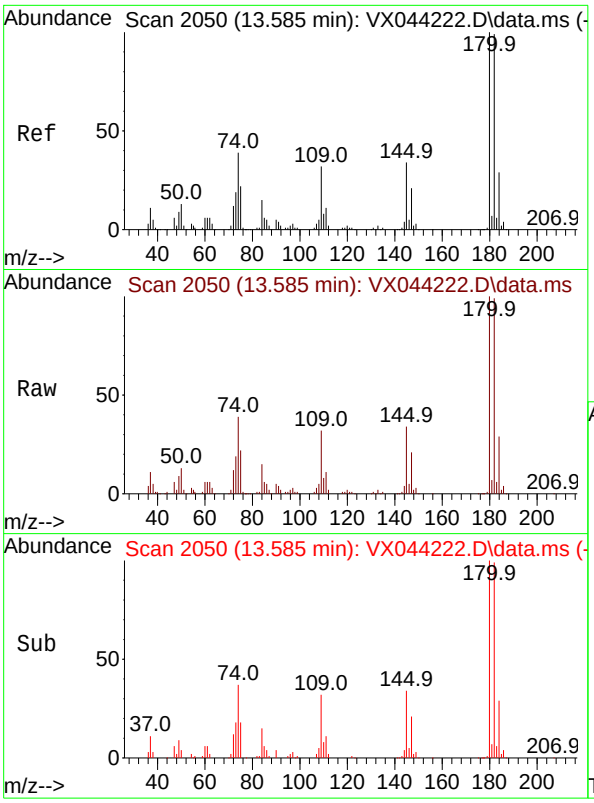


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.951 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 26027

Ion	Ratio	Lower	Upper
75	100		
155	76.2	38.1	114.3
157	94.4	47.2	141.6



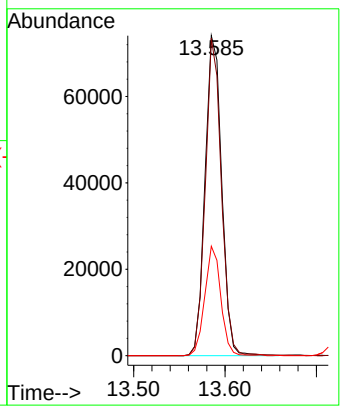


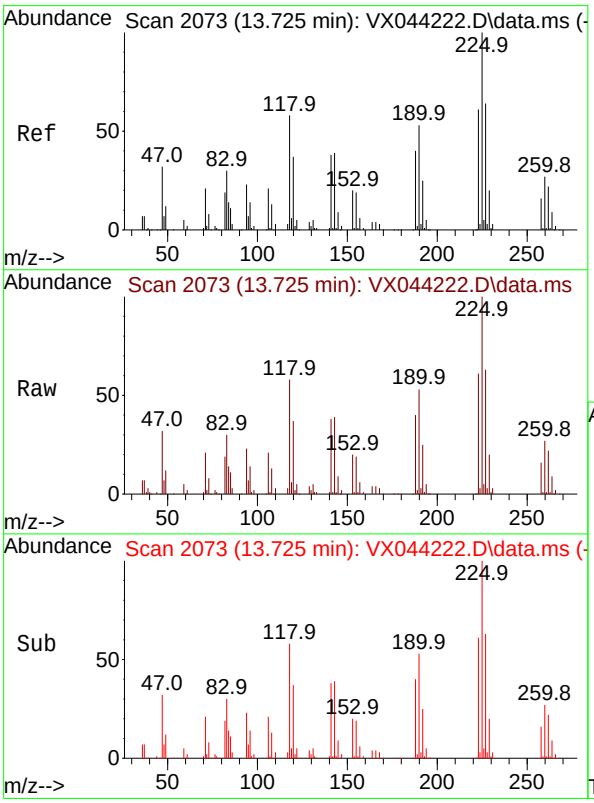
#93
1,2,4-Trichlorobenzene
Concen: 53.005 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 93173

Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.0	144.2
145	33.1	16.6	49.7

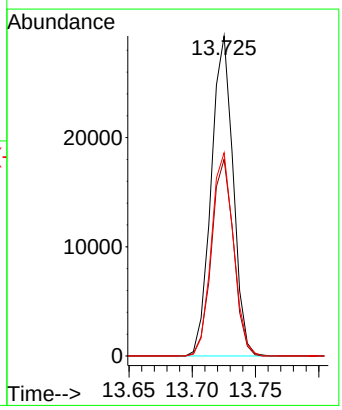


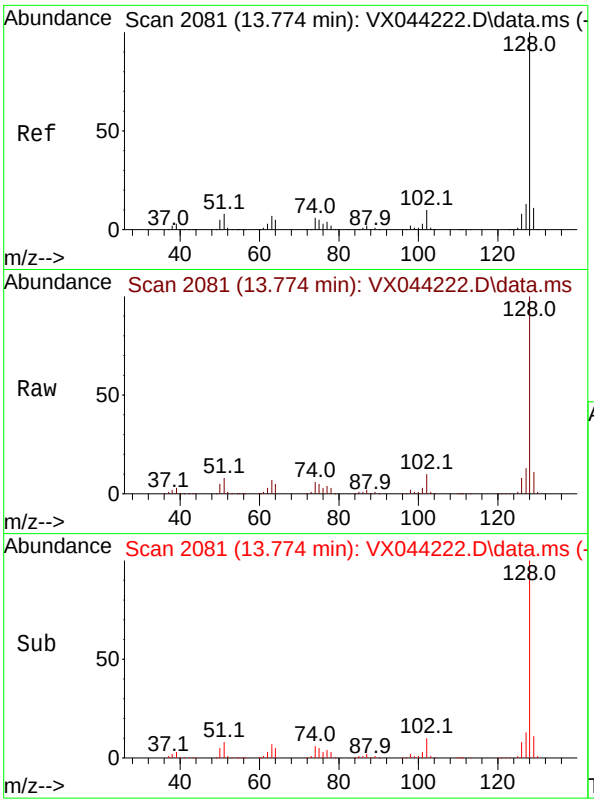


#94
Hexachlorobutadiene
Concen: 49.744 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:225 Resp: 35172

Ion	Ratio	Lower	Upper
225	100		
223	61.6	30.8	92.4
227	64.2	32.1	96.3



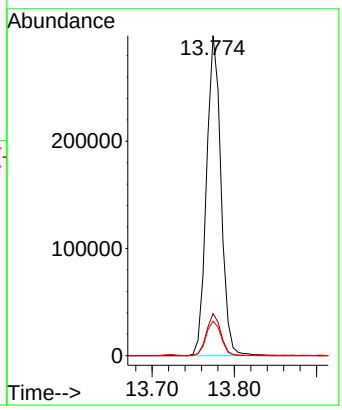


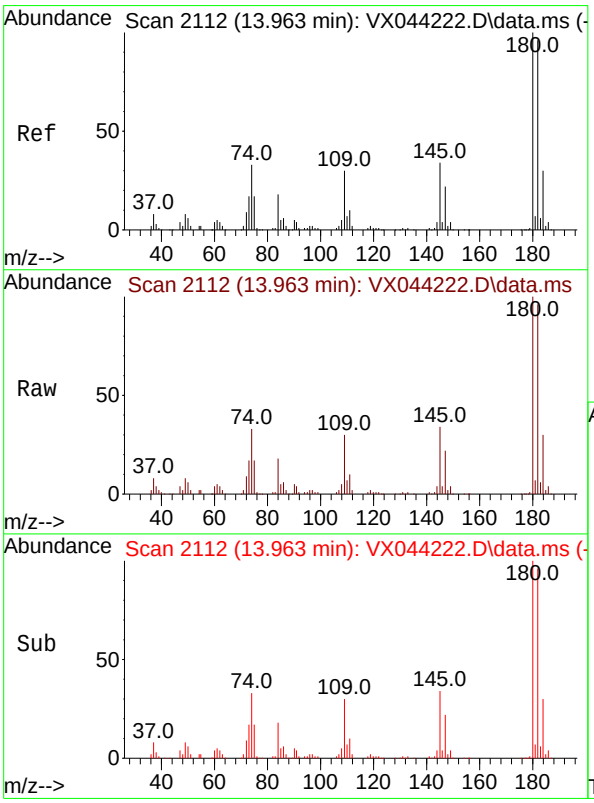
#95
Naphthalene
Concen: 53.230 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 365234

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	11.2	9.0	13.4

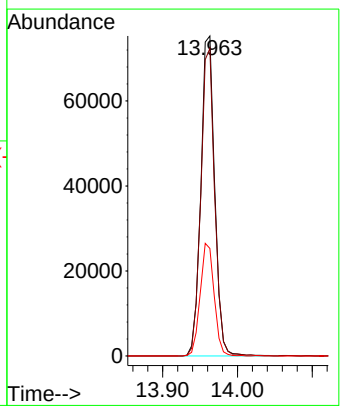




#96
1,2,3-Trichlorobenzene
Concen: 52.027 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:180 Resp: 97000

Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.0
145	35.4	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	130101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	235738	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	209164	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	97670	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	224292	98.326	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 196.660%#			
35) Dibromofluoromethane	5.379	113	169582	103.866	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 207.740%#			
50) Toluene-d8	8.647	98	579477	105.201	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 210.400%#			
62) 4-Bromofluorobenzene	11.079	95	203694	105.830	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 211.660%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	193785	96.329	ug/l	97
3) Chloromethane	1.295	50	186167	96.774	ug/l	99
4) Vinyl Chloride	1.374	62	187739	93.675	ug/l	99
5) Bromomethane	1.593	94	137770	96.897	ug/l	97
6) Chloroethane	1.660	64	109912	88.074	ug/l	95
7) Trichlorofluoromethane	1.862	101	384622	98.030	ug/l	98
8) Diethyl Ether	2.136	74	124039	92.618	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	149151	93.944	ug/l	99
10) Methyl Iodide	2.441	142	203545	97.275	ug/l	100
11) Tert butyl alcohol	3.008	59	173139	539.406	ug/l	100
12) 1,1-Dichloroethene	2.307	96	144268	98.930	ug/l	100
13) Acrolein	2.240	56	226037	485.718	ug/l	99
14) Allyl chloride	2.654	41	244602	100.703	ug/l	99
15) Acrylonitrile	3.069	53	446747	501.661	ug/l	99
16) Acetone	2.392	43	452955	487.065	ug/l	97
17) Carbon Disulfide	2.496	76	320036	115.453	ug/l	99
18) Methyl Acetate	2.709	43	230998	96.338	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	564545	99.205	ug/l	99
20) Methylene Chloride	2.782	84	168498	96.466	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	154797	99.880	ug/l	98
22) Diisopropyl ether	3.764	45	538742	98.498	ug/l	99
23) Vinyl Acetate	3.721	43	2395923	538.801	ug/l	100
24) 1,1-Dichloroethane	3.605	63	304626	99.915	ug/l	99
25) 2-Butanone	4.568	43	662768	501.306	ug/l	99
26) 2,2-Dichloropropane	4.471	77	258092	104.201	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	190127	96.593	ug/l	99
28) Bromochloromethane	4.891	49	144783	96.842	ug/l	99
29) Tetrahydrofuran	5.007	42	412666	486.290	ug/l	99
30) Chloroform	5.093	83	331047	96.642	ug/l	98
31) Cyclohexane	5.458	56	239879	97.433	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	291065	102.363	ug/l	99
36) 1,1-Dichloropropene	5.684	75	209732	99.376	ug/l	98
37) Ethyl Acetate	4.721	43	266307	102.079	ug/l	100
38) Carbon Tetrachloride	5.672	117	236869	104.249	ug/l	96
39) Methylcyclohexane	7.373	83	259368	102.800	ug/l	98
40) Benzene	6.032	78	638055	99.575	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	140375	101.332	ug/l		99
42) 1,2-Dichloroethane	6.086	62	261991	99.255	ug/l		99
43) Isopropyl Acetate	6.342	43	427893	104.939	ug/l		99
44) Trichloroethene	7.123	130	158990	99.497	ug/l		99
45) 1,2-Dichloropropane	7.428	63	160913	98.293	ug/l		97
46) Dibromomethane	7.580	93	130316	102.607	ug/l		99
47) Bromodichloromethane	7.818	83	244401	111.423	ug/l		100
48) Methyl methacrylate	7.696	41	203116	102.618	ug/l		99
49) 1,4-Dioxane	7.665	88	61921	1830.521	ug/l	#	80
51) 4-Methyl-2-Pentanone	8.574	43	1322678	504.496	ug/l		99
52) Toluene	8.714	92	396383	98.506	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	248092	99.321	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	263014	110.127	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	157366	98.441	ug/l		98
56) Ethyl methacrylate	9.116	69	271146	107.442	ug/l		99
57) 1,3-Dichloropropane	9.305	76	274642	98.704	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	671233	527.342	ug/l		100
59) 2-Hexanone	9.433	43	989466	521.401	ug/l		99
60) Dibromochloromethane	9.519	129	178135	99.480	ug/l		99
61) 1,2-Dibromoethane	9.610	107	171458	105.371	ug/l		97
64) Tetrachloroethene	9.269	164	130678	94.131	ug/l		97
65) Chlorobenzene	10.080	112	433179	96.650	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	153882	106.831	ug/l		99
67) Ethyl Benzene	10.195	91	765930	98.906	ug/l		97
68) m/p-Xylenes	10.299	106	571648	201.171	ug/l		99
69) o-Xylene	10.640	106	280603	97.597	ug/l		100
70) Styrene	10.653	104	480077	104.159	ug/l		97
71) Bromoform	10.799	173	112482	99.723	ug/l	#	98
73) Isopropylbenzene	10.964	105	731955	97.894	ug/l		99
74) N-amyl acetate	10.842	43	371420	107.485	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.214	83	245395	94.491	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	278299	125.569	ug/l		85
77) Bromobenzene	11.195	156	175647	96.874	ug/l		98
78) n-propylbenzene	11.305	91	836676	101.242	ug/l		99
79) 2-Chlorotoluene	11.366	91	504407	94.377	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	604993	97.570	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	78453	97.165	ug/l		94
82) 4-Chlorotoluene	11.451	91	588197	99.384	ug/l		99
83) tert-Butylbenzene	11.713	119	606738	99.013	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	614999	100.994	ug/l		100
85) sec-Butylbenzene	11.890	105	743098	99.889	ug/l		100
86) p-Isopropyltoluene	12.006	119	624416	100.847	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	317377	100.210	ug/l		99
88) 1,4-Dichlorobenzene	12.043	146	316688	97.271	ug/l		99
89) n-Butylbenzene	12.329	91	564303	108.385	ug/l		99
90) Hexachloroethane	12.536	117	105946	117.218	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	323040	98.232	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	54588	108.279	ug/l		93
93) 1,2,4-Trichlorobenzene	13.585	180	197899	109.766	ug/l		98
94) Hexachlorobutadiene	13.725	225	72453	99.908	ug/l		97
95) Naphthalene	13.774	128	755181	107.308	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	206053	107.754	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

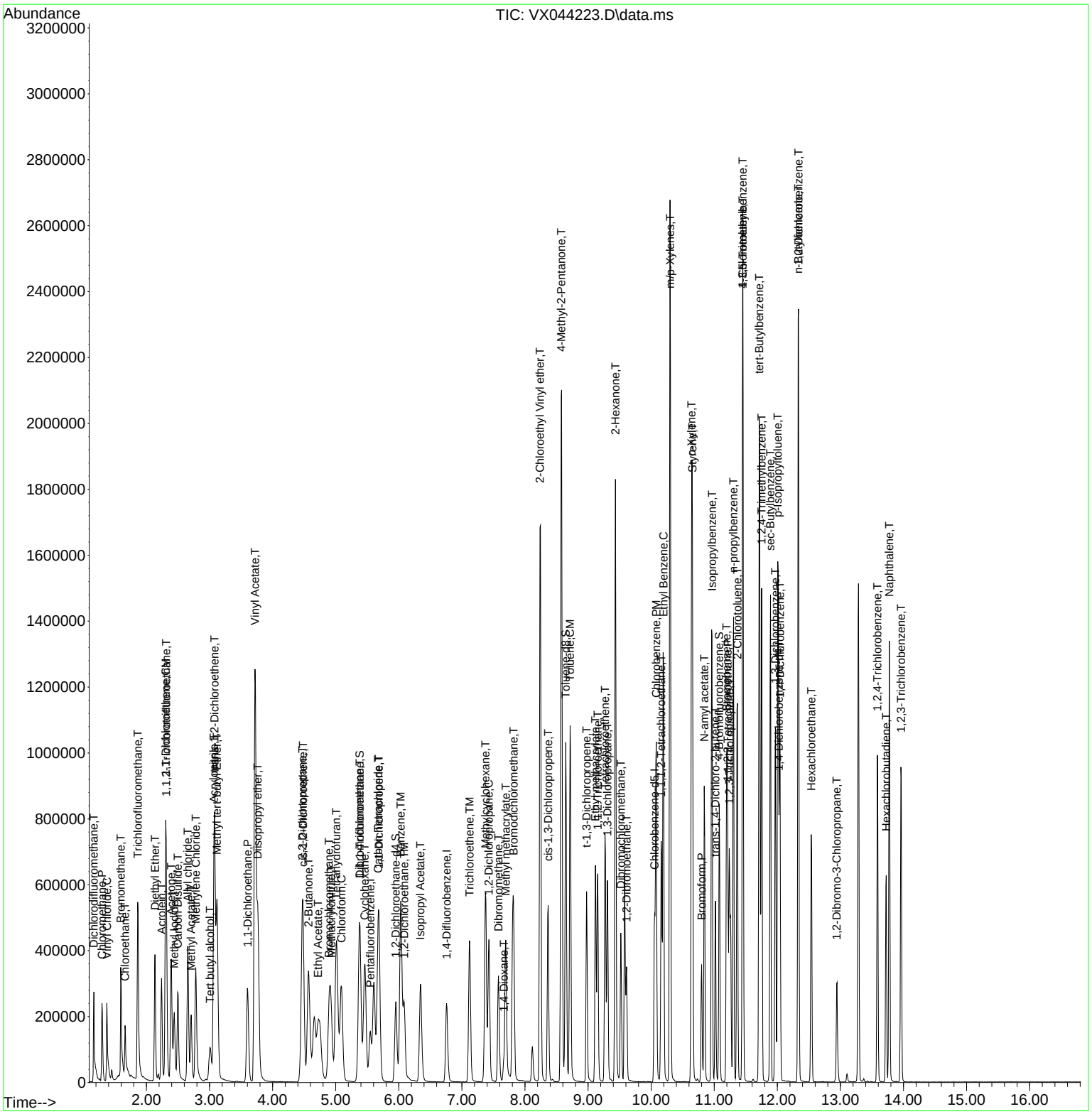
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

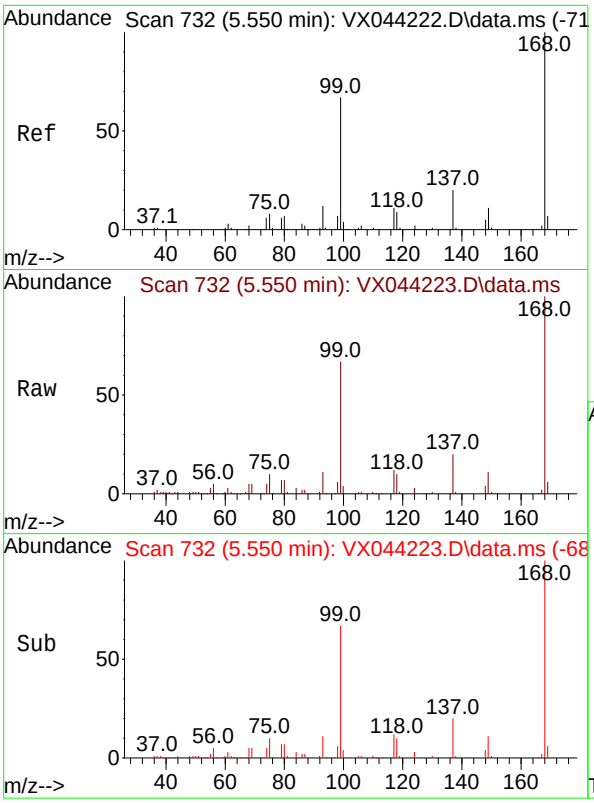
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration



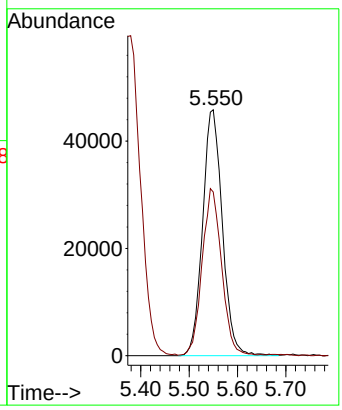


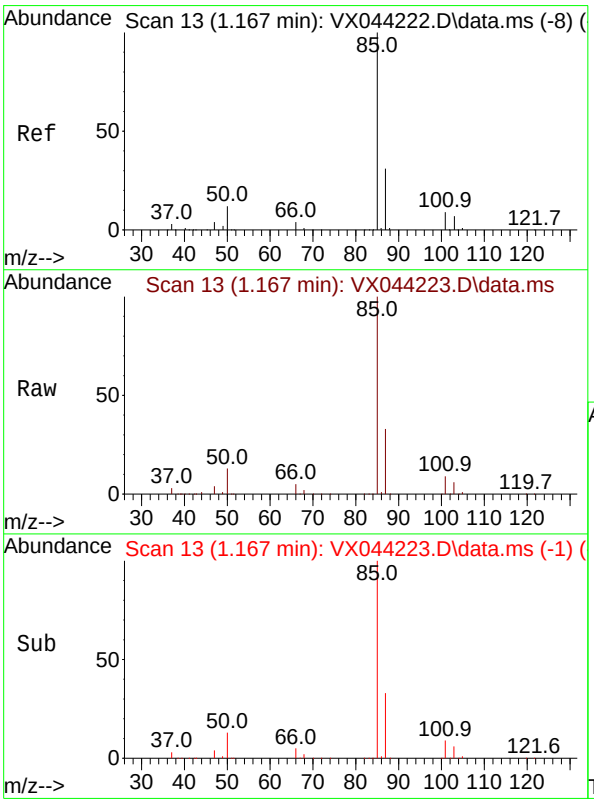
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 130101

Ion	Ratio	Lower	Upper
168	100		
99	66.4	53.4	80.0

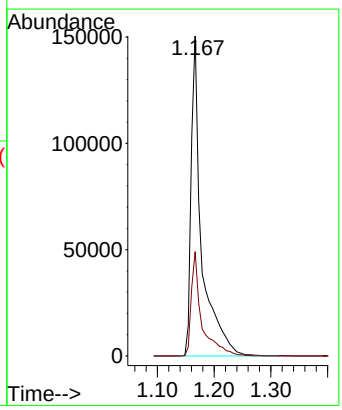


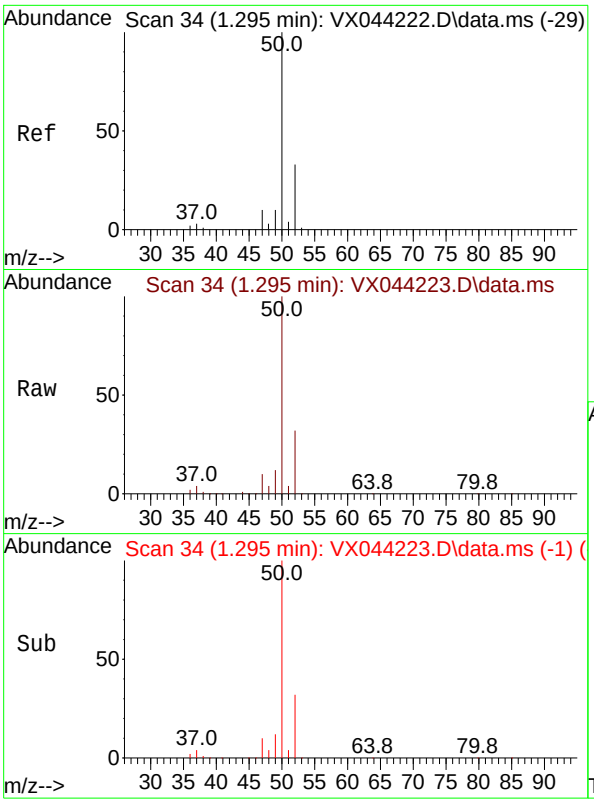


#2
Dichlorodifluoromethane
Concen: 96.329 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 85 Resp: 193785

Ion	Ratio	Lower	Upper
85	100		
87	32.6	15.4	46.4



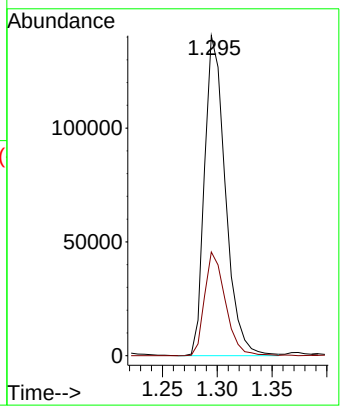


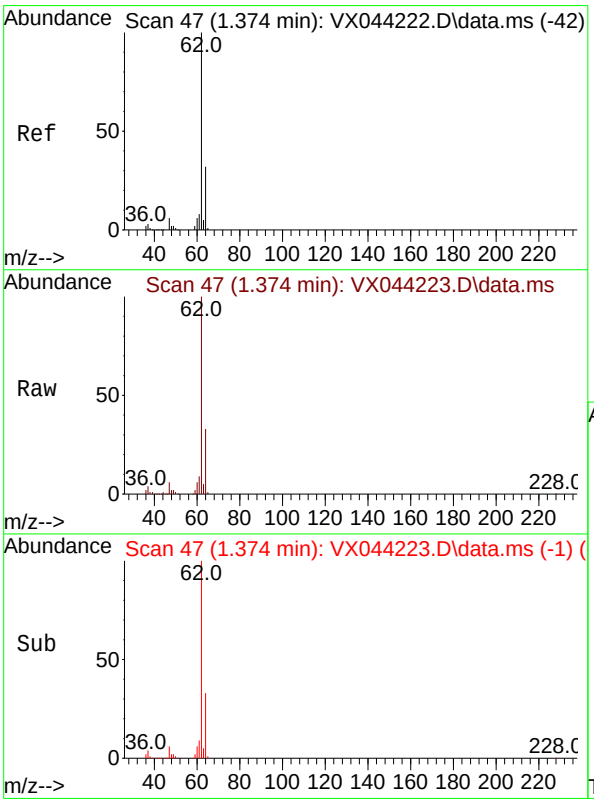
#3
Chloromethane
Concen: 96.774 ug/l
RT: 1.295 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 186167

Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.5	39.7

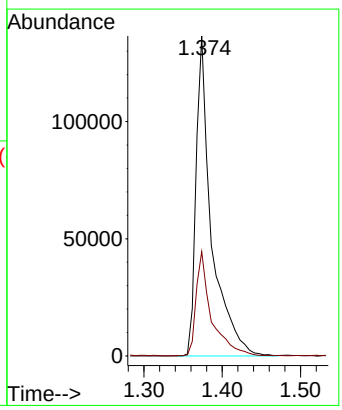


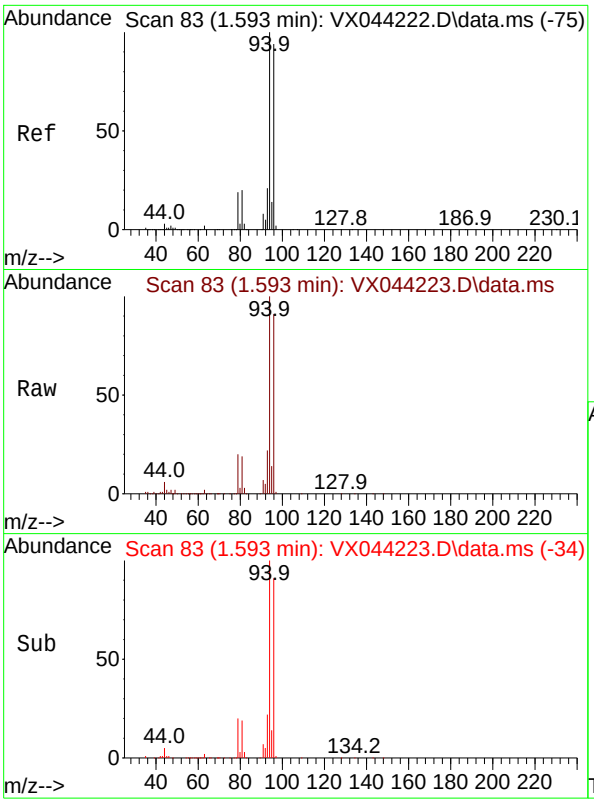


#4
Vinyl Chloride
Concen: 93.675 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 62 Resp: 187739

Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.7	38.5



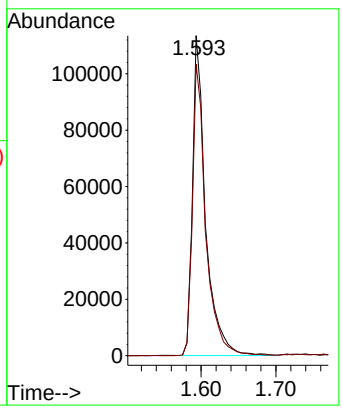


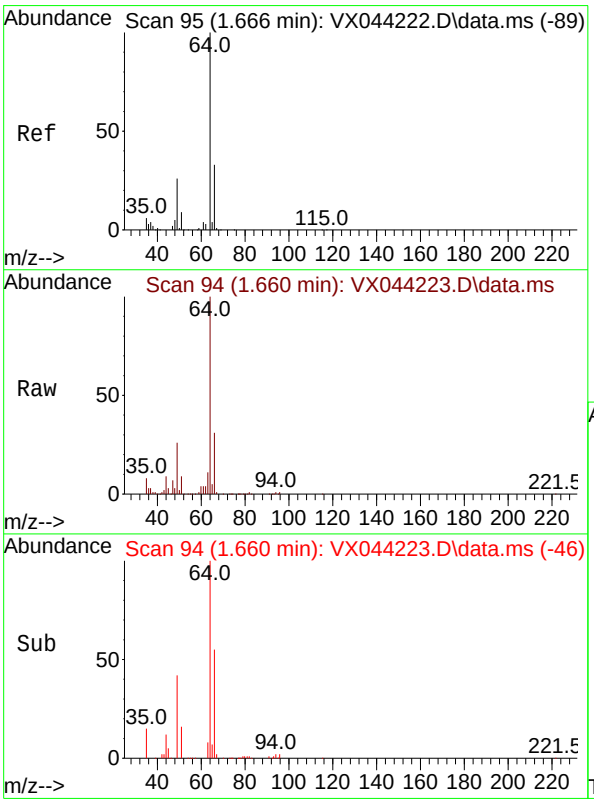
#5
Bromomethane
Concen: 96.897 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 137770

Ion	Ratio	Lower	Upper
94	100		
96	91.1	74.9	112.3

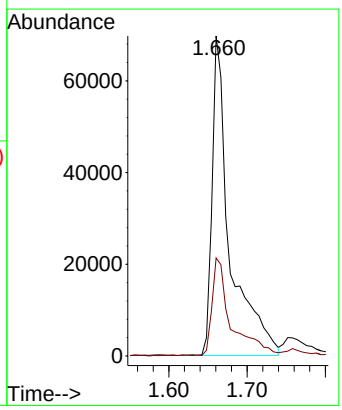


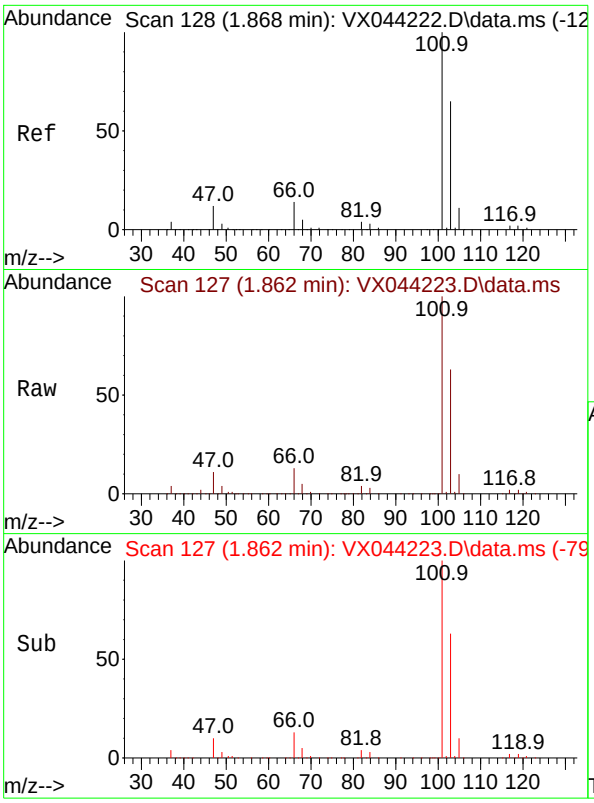


#6
Chloroethane
Concen: 88.074 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 64 Resp: 109912

Ion	Ratio	Lower	Upper
64	100		
66	30.5	26.6	39.8



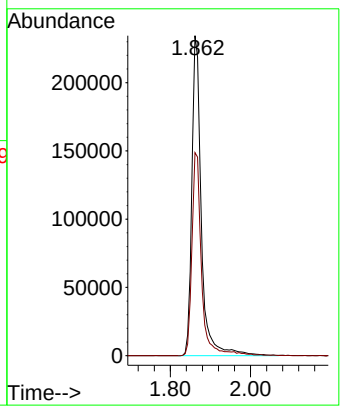


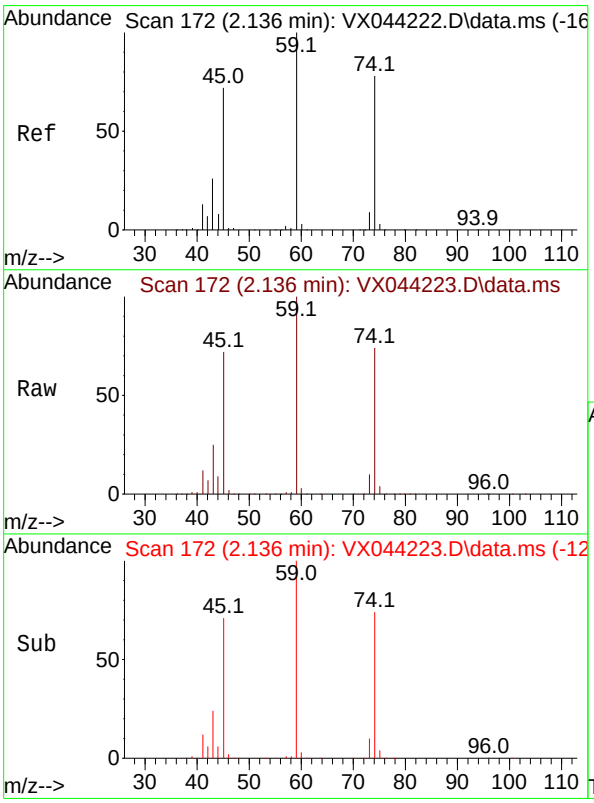
#7
Trichlorofluoromethane
Concen: 98.030 ug/l
RT: 1.862 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 384622

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.8	77.8

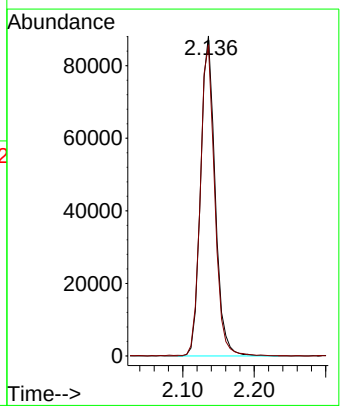


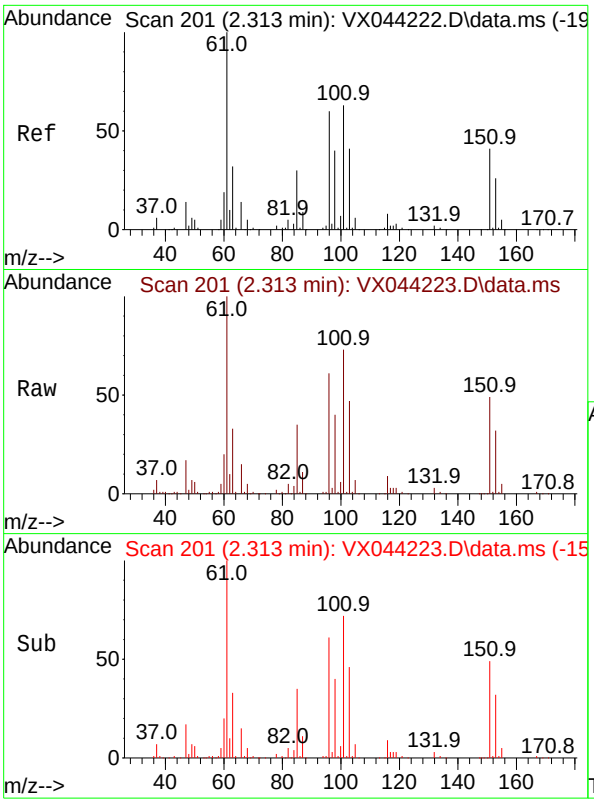


#8
Diethyl Ether
Concen: 92.618 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 74 Resp: 124039

Ion	Ratio	Lower	Upper
74	100		
45	96.3	48.4	145.0



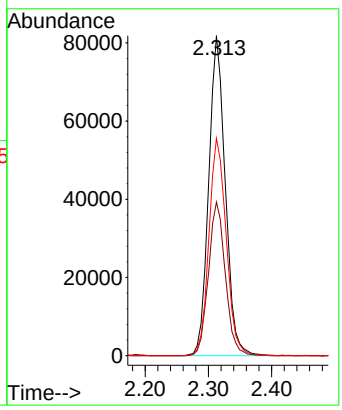


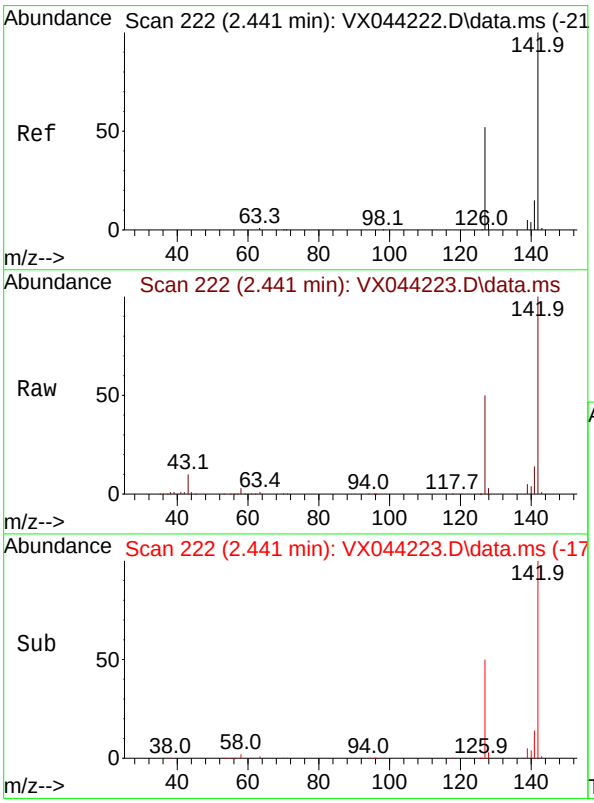
#9
1,1,2-Trichlorotrifluoroethane
Concen: 93.944 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 149151

Ion	Ratio	Lower	Upper
101	100		
85	48.9	38.5	57.7
151	70.5	55.8	83.6

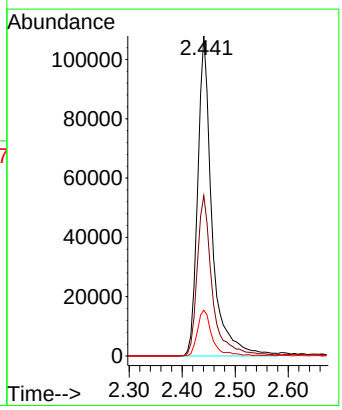


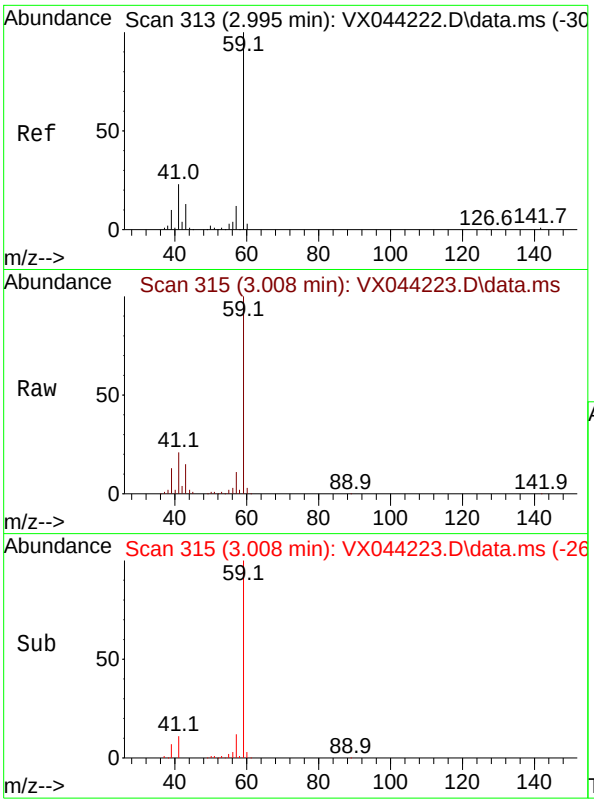


#10
Methyl Iodide
Concen: 97.275 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:142 Resp: 203545

Ion	Ratio	Lower	Upper
142	100		
127	52.4	41.8	62.8
141	14.8	11.5	17.3



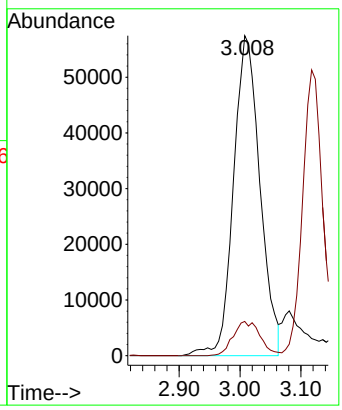


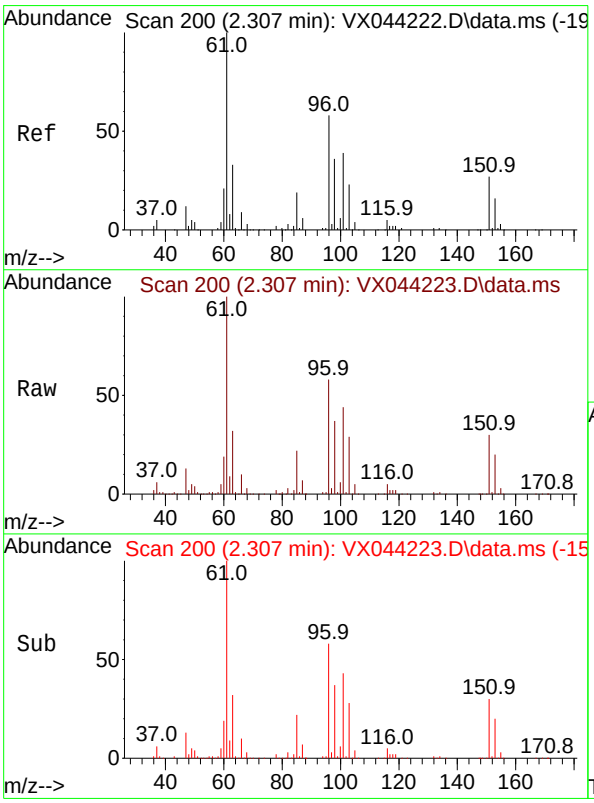
#11
Tert butyl alcohol
Concen: 539.406 ug/l
RT: 3.008 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 173139

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.8	13.2

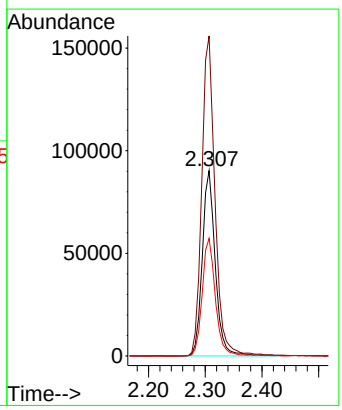


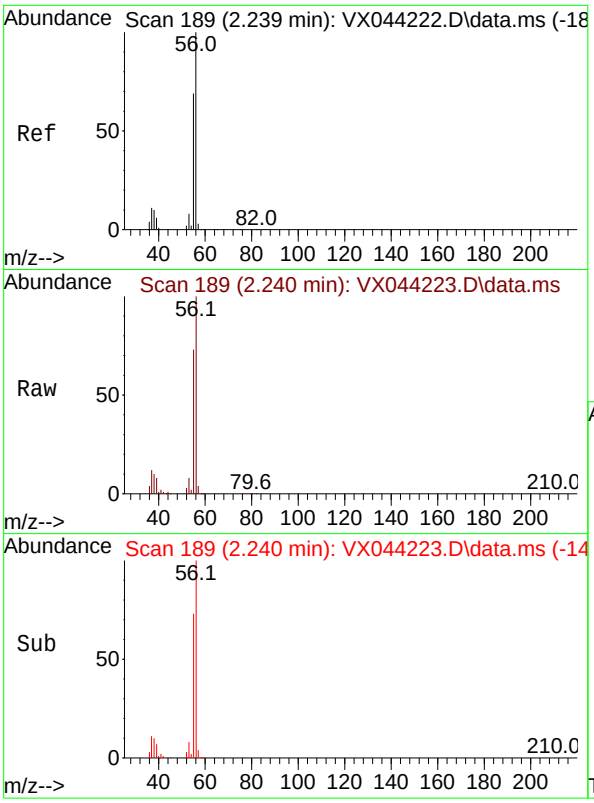


#12
1,1-Dichloroethene
Concen: 98.930 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 96 Resp: 144268

Ion	Ratio	Lower	Upper
96	100		
61	172.7	138.0	207.0
98	63.5	50.0	75.0



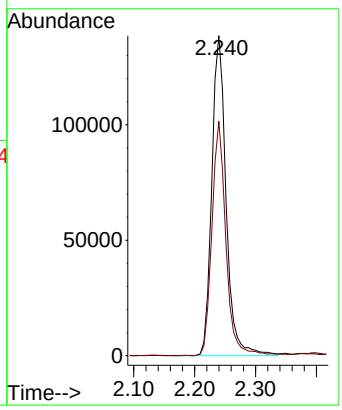


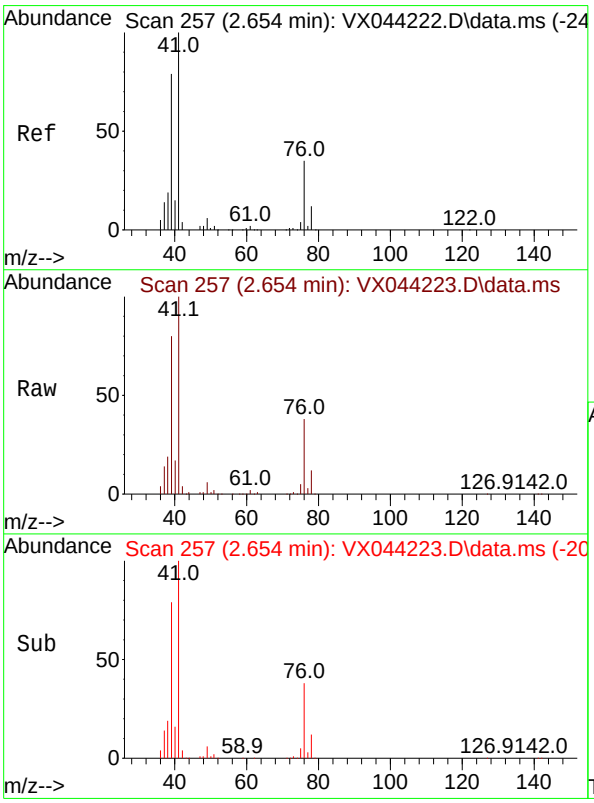
#13
Acrolein
Concen: 485.718 ug/l
RT: 2.240 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 226037

Ion	Ratio	Lower	Upper
56	100		
55	71.7	56.6	84.8

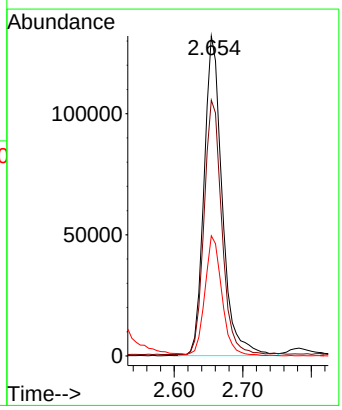


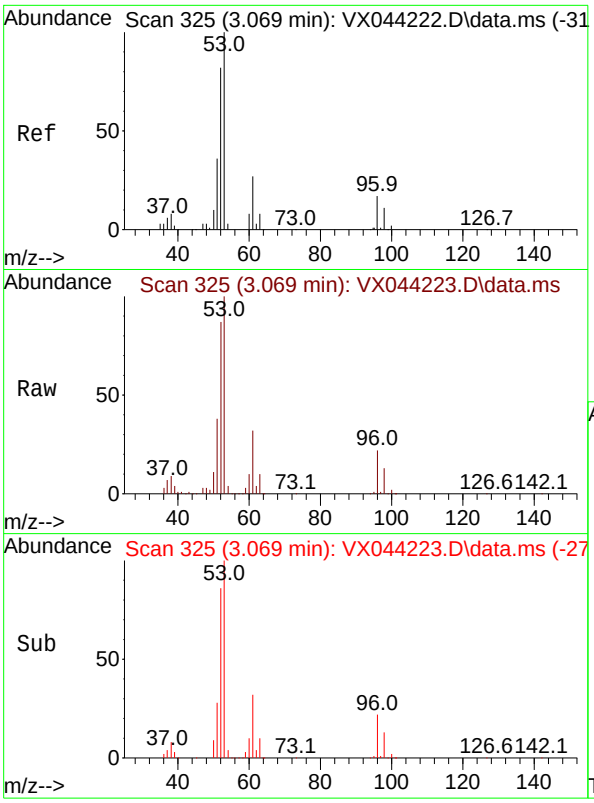


#14
Allyl chloride
Concen: 100.703 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 41 Resp: 244602

Ion	Ratio	Lower	Upper
41	100		
39	77.0	61.9	92.9
76	34.7	27.4	41.2



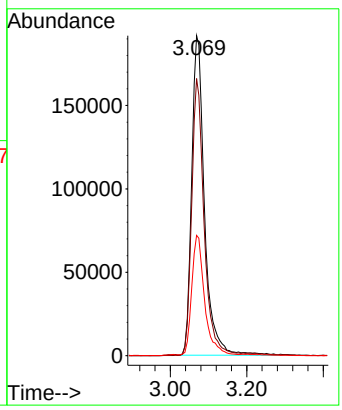


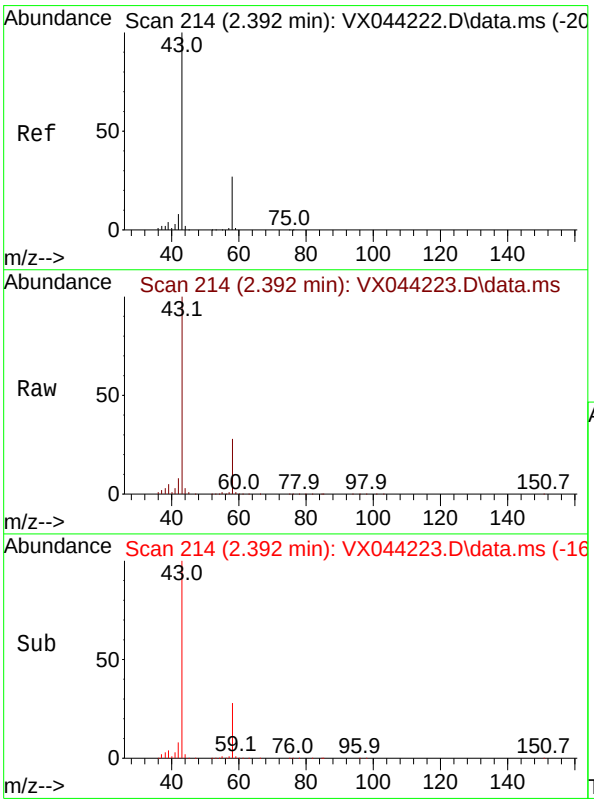
#15
Acrylonitrile
Concen: 501.661 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 446747

Ion	Ratio	Lower	Upper
53	100		
52	84.0	67.4	101.0
51	37.0	30.3	45.5

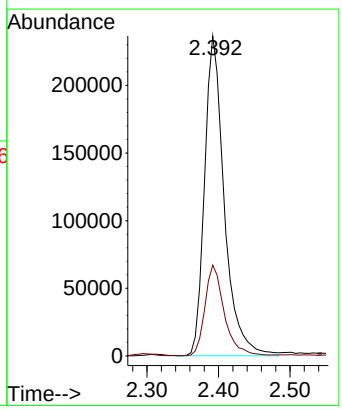


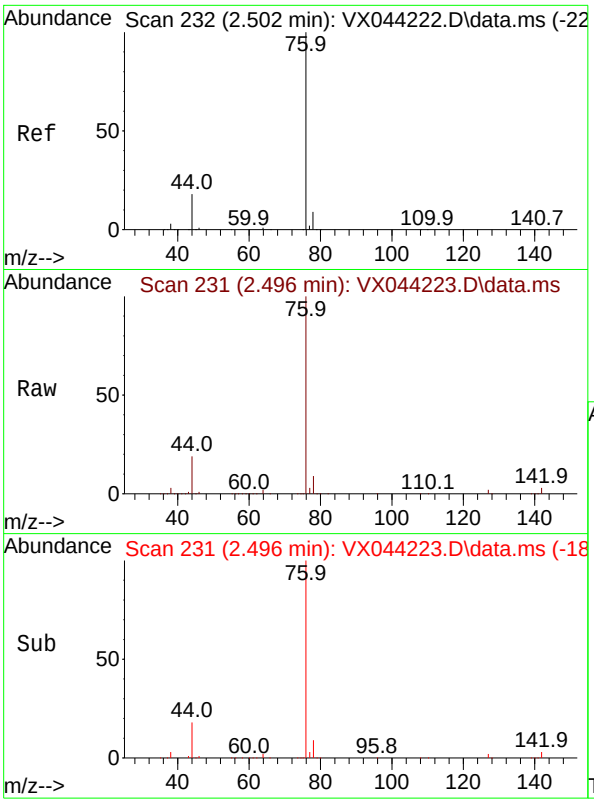


#16
Acetone
Concen: 487.065 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 452955

Ion	Ratio	Lower	Upper
43	100		
58	28.4	21.6	32.4



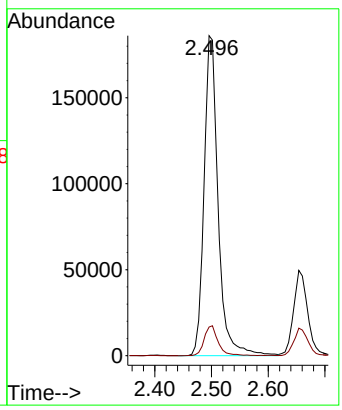


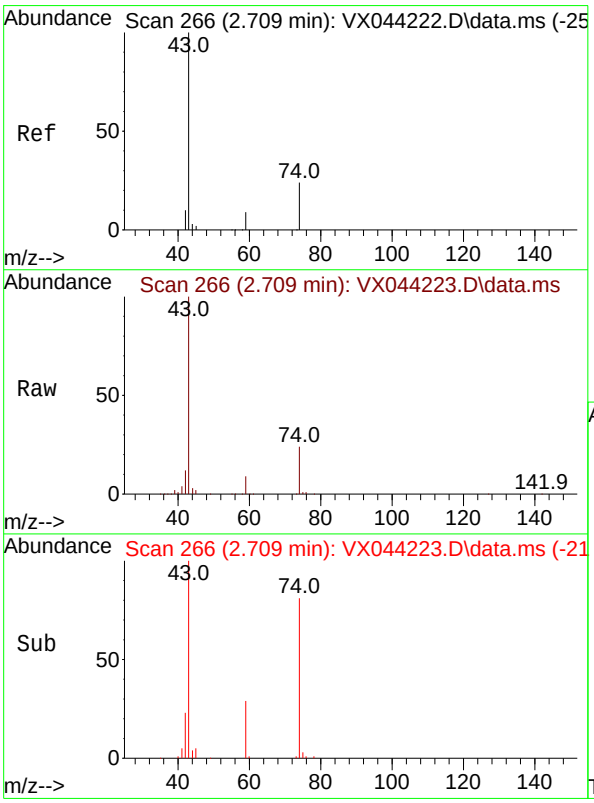
#17
Carbon Disulfide
Concen: 115.453 ug/l
RT: 2.496 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 320036

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0

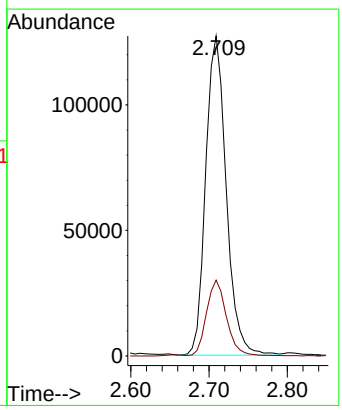


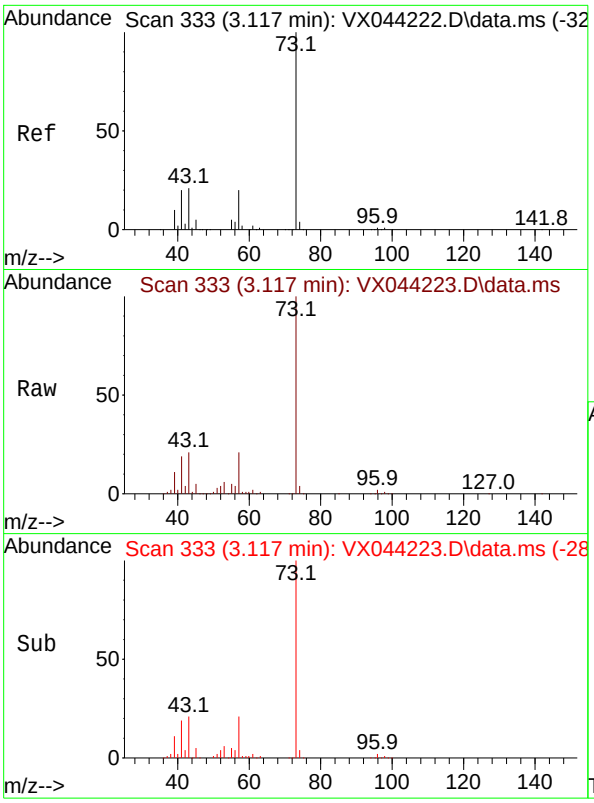


#18
Methyl Acetate
Concen: 96.338 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 230998

Ion	Ratio	Lower	Upper
43	100		
74	23.3	17.7	26.5



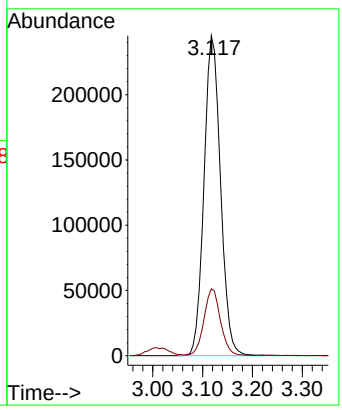


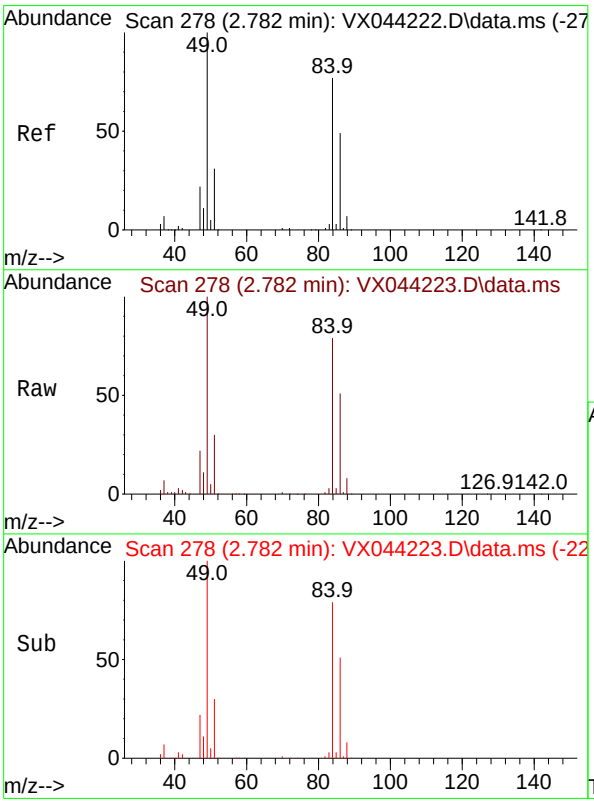
#19
Methyl tert-butyl Ether
Concen: 99.205 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 564545

Ion	Ratio	Lower	Upper
73	100		
57	20.8	16.2	24.4

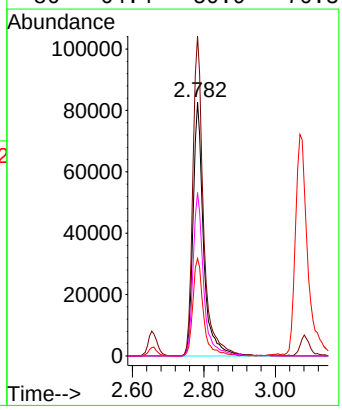


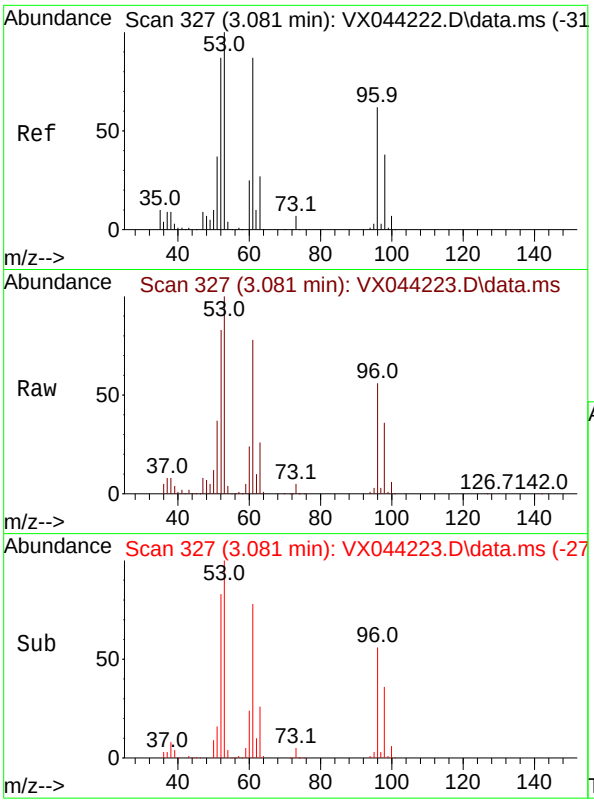


#20
Methylene Chloride
Concen: 96.466 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 84 Resp: 168498

Ion	Ratio	Lower	Upper
84	100		
49	126.1	104.2	156.4
51	38.4	32.2	48.4
86	64.4	50.9	76.3



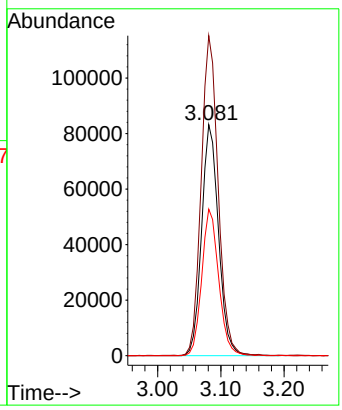


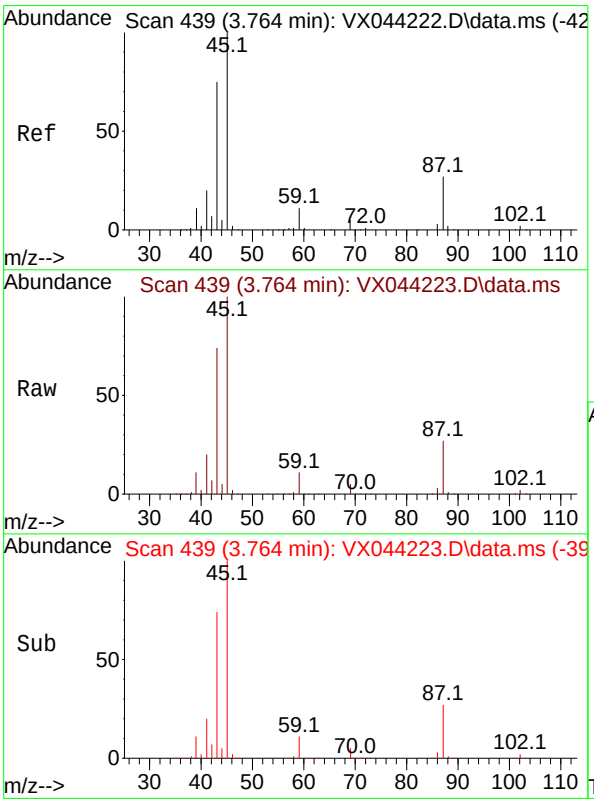
#21
trans-1,2-Dichloroethene
Concen: 99.880 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 154797

Ion	Ratio	Lower	Upper
96	100		
61	138.4	112.0	168.0
98	63.5	48.8	73.2

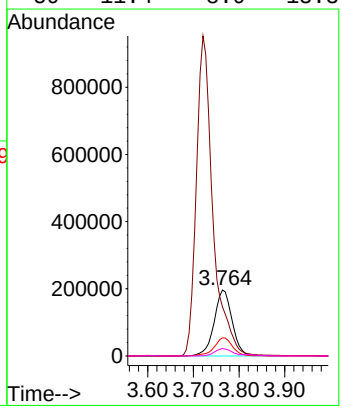


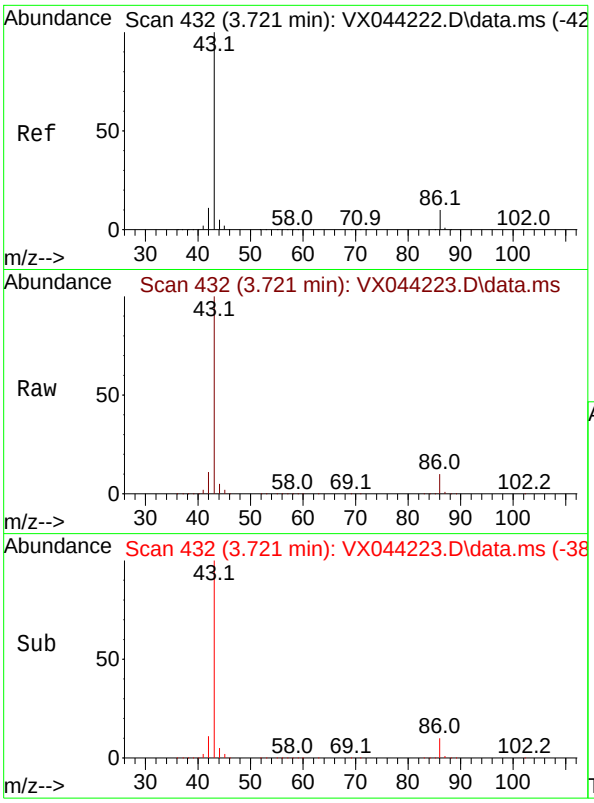


#22
Diisopropyl ether
Concen: 98.498 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 45 Resp: 538742

Ion	Ratio	Lower	Upper
45	100		
43	74.2	60.2	90.2
87	27.4	21.2	31.8
59	11.4	8.9	13.3



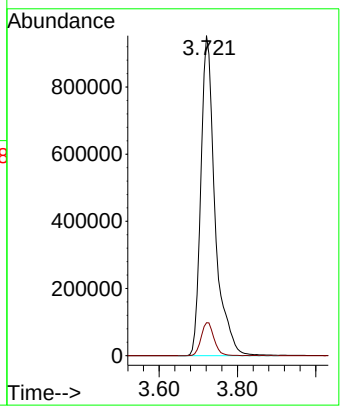


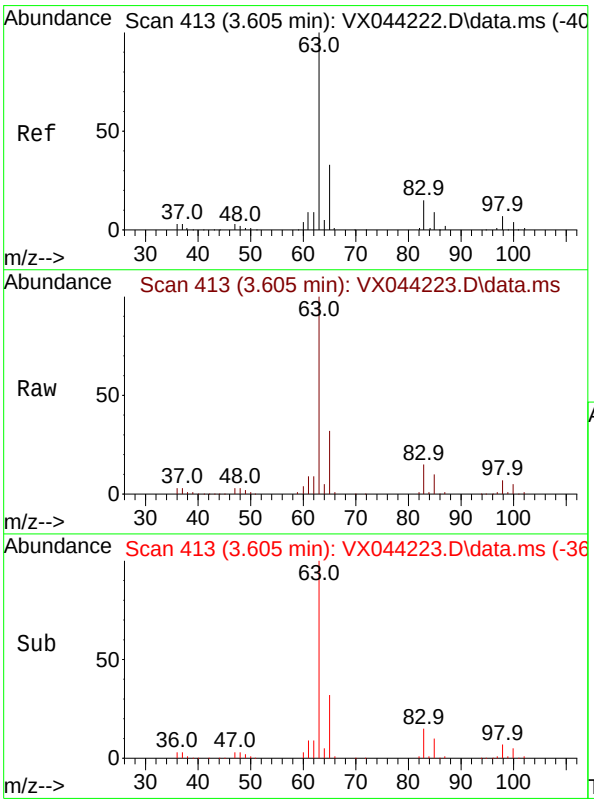
#23
Vinyl Acetate
Concen: 538.801 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 2395923

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.2	12.2

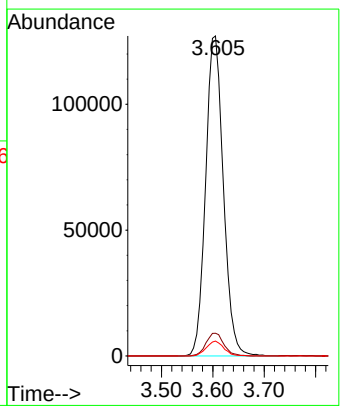


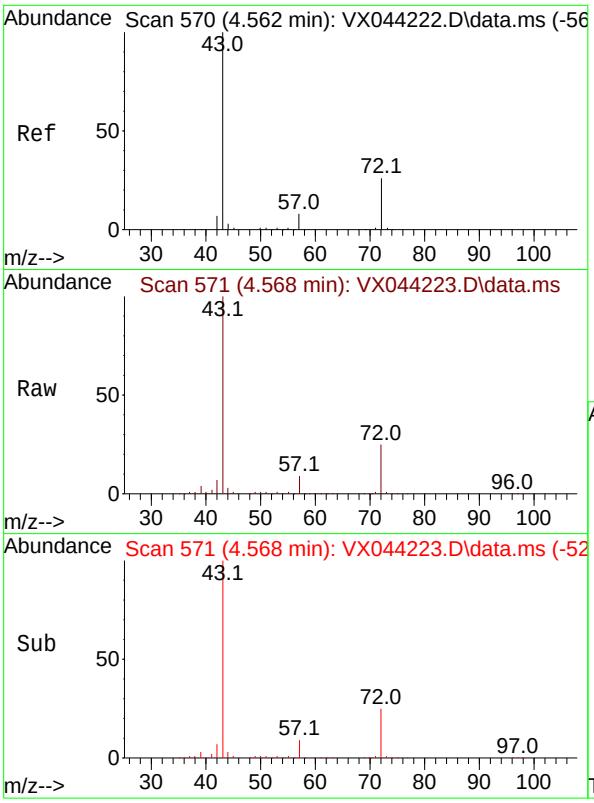


#24
1,1-Dichloroethane
Concen: 99.915 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 63 Resp: 304626

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.6	10.8
100	4.6	2.1	6.3



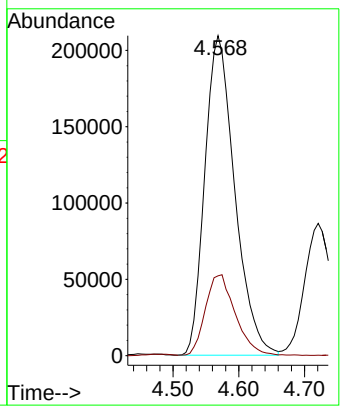


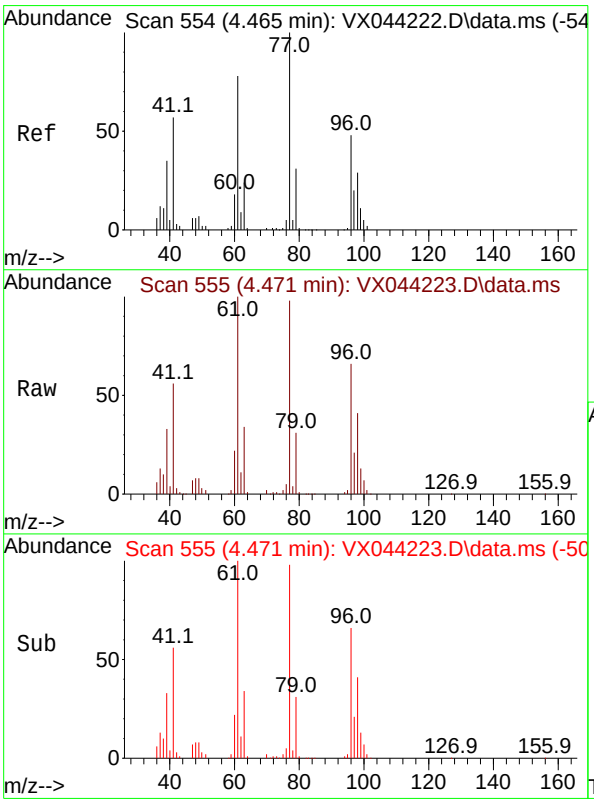
#25
2-Butanone
Concen: 501.306 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 662768

Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4

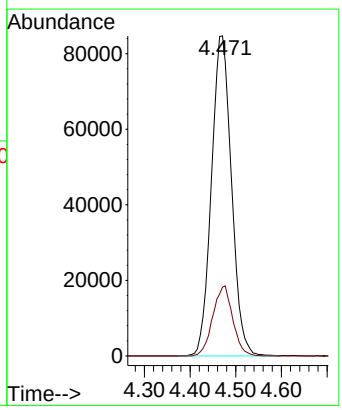


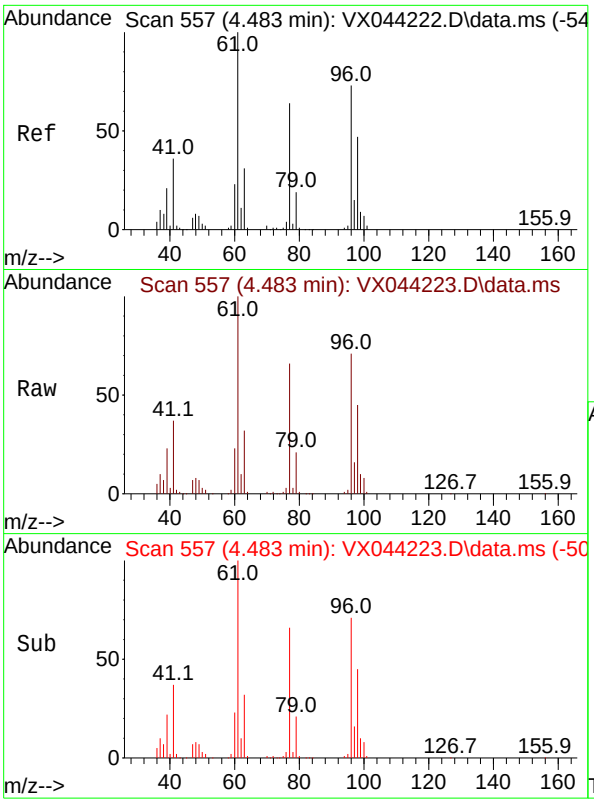


#26
2,2-Dichloropropane
Concen: 104.201 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 77 Resp: 258092

Ion	Ratio	Lower	Upper
77	100		
97	21.8	10.7	32.1



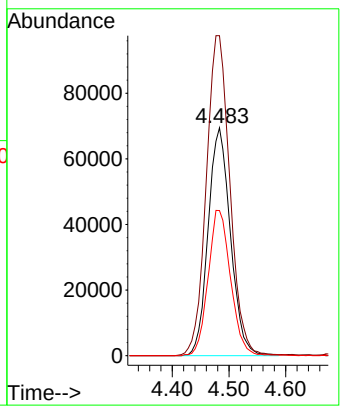


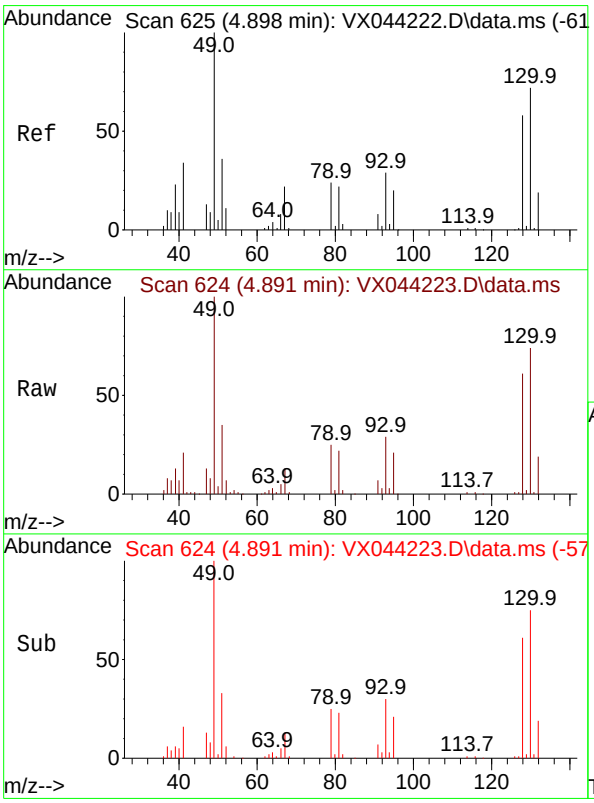
#27
cis-1,2-Dichloroethene
Concen: 96.593 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 190127

Ion	Ratio	Lower	Upper
96	100		
61	148.5	0.0	299.0
98	64.2	0.0	129.0

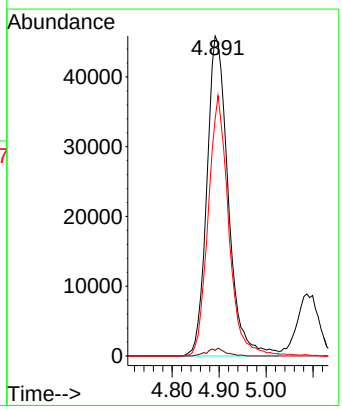


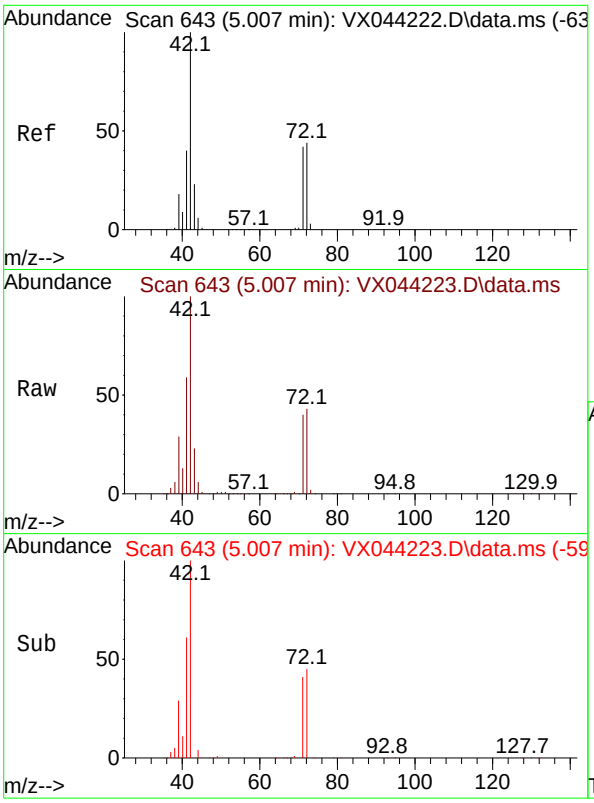


#28
Bromochloromethane
Concen: 96.842 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 49 Resp: 144783

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	78.2	62.1	93.1



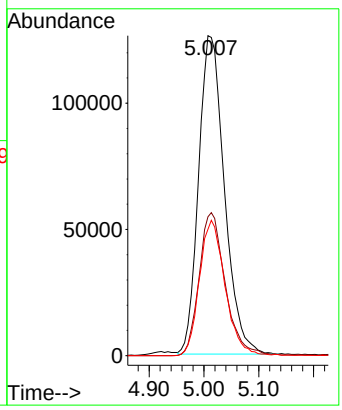


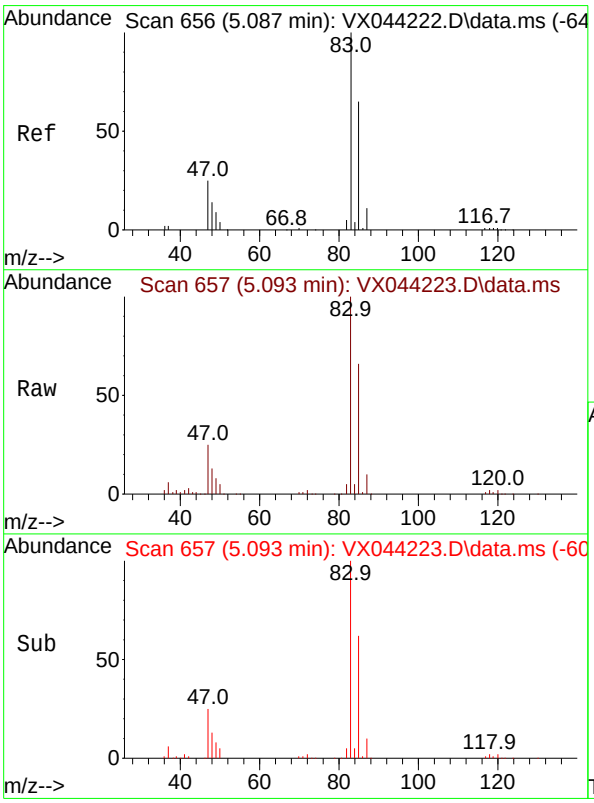
#29
Tetrahydrofuran
Concen: 486.290 ug/l
RT: 5.007 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 412666

Ion	Ratio	Lower	Upper
42	100		
72	45.6	37.0	55.6
71	42.1	33.6	50.4

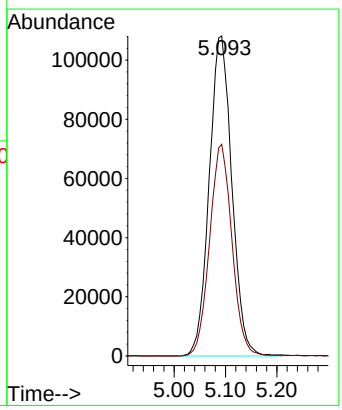


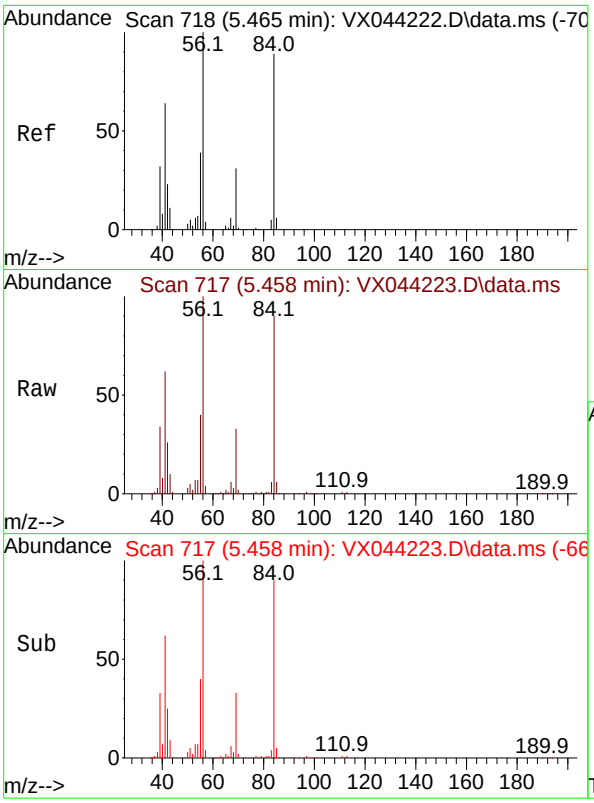


#30
Chloroform
Concen: 96.642 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 83 Resp: 331047

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.6	77.4



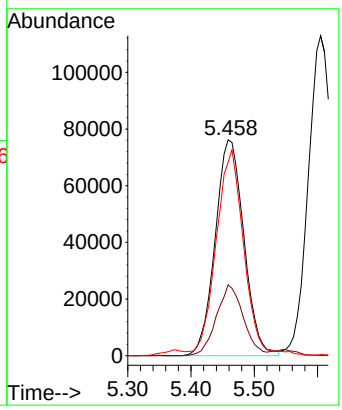


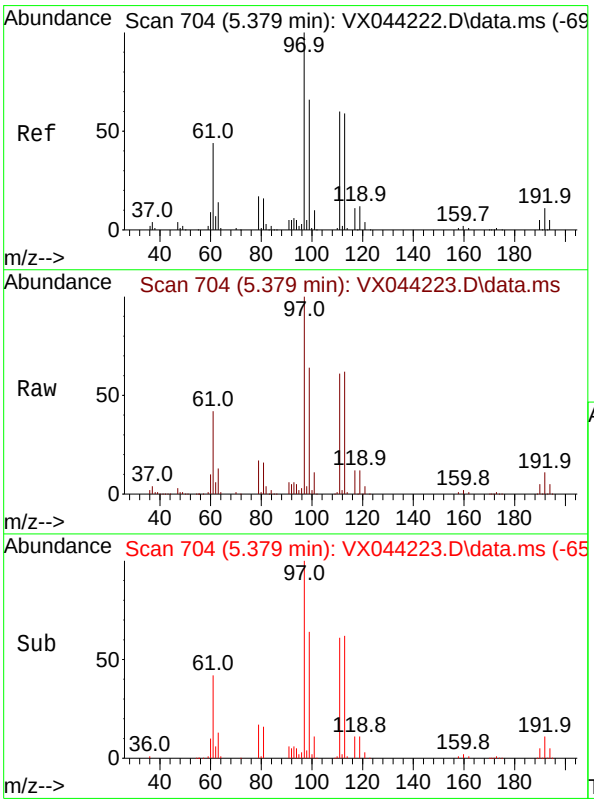
#31
Cyclohexane
Concen: 97.433 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 239879

Ion	Ratio	Lower	Upper
56	100		
69	32.8	24.7	37.1
84	87.3	71.0	106.6

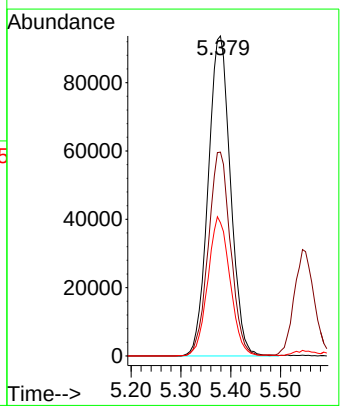


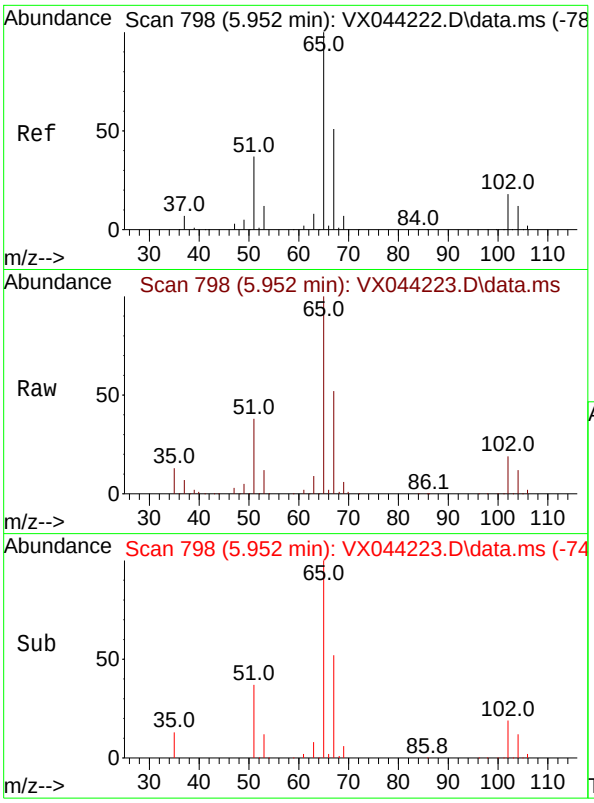


#32
1,1,1-Trichloroethane
Concen: 102.363 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 97 Resp: 291065

Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.8	76.2
61	43.3	35.2	52.8



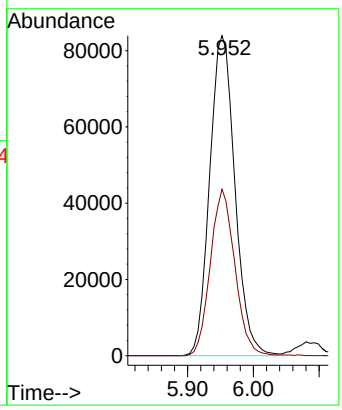


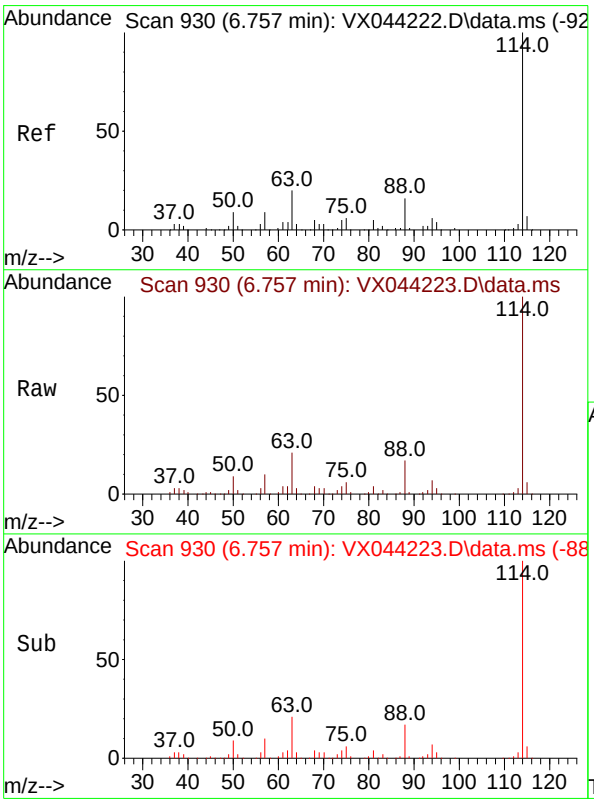
#33
1,2-Dichloroethane-d4
Concen: 98.326 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 224292

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.6

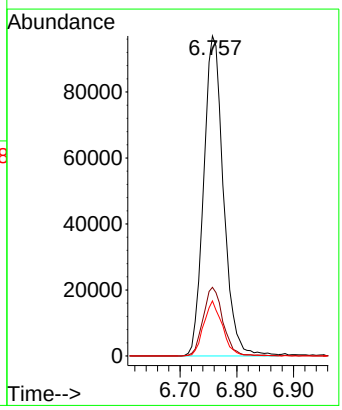


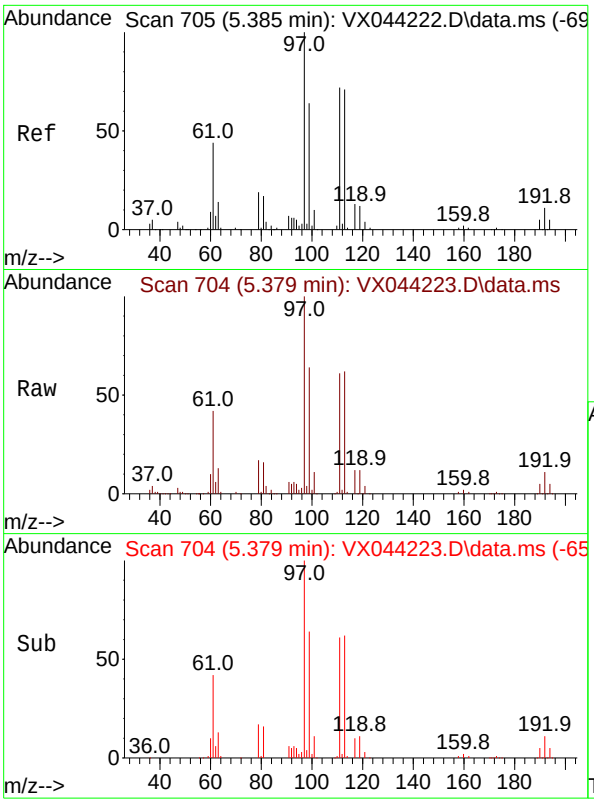


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:114 Resp: 235738

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	40.6
88	17.2	0.0	31.8



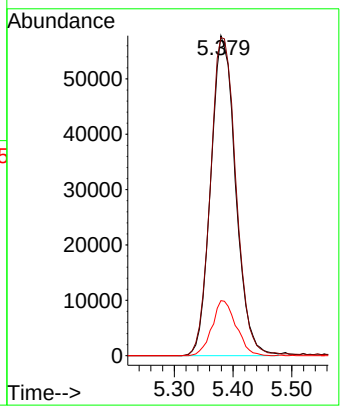


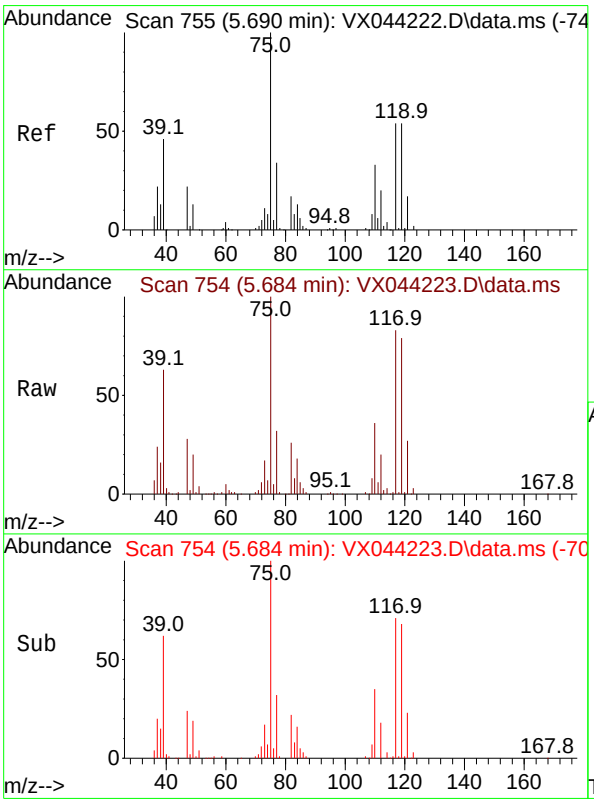
#35
Dibromofluoromethane
Concen: 103.866 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 169582

Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.4	120.6
192	16.7	13.3	19.9

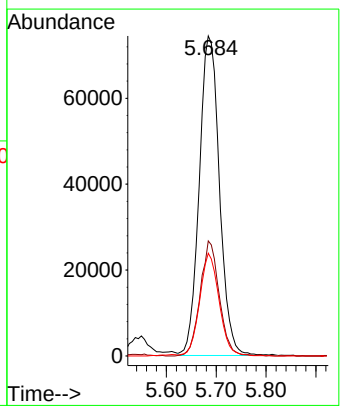


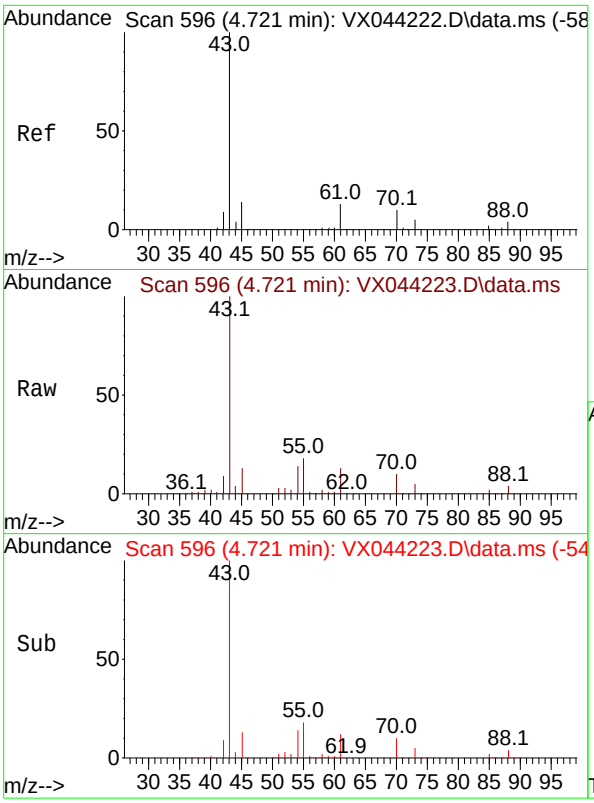


#36
1,1-Dichloropropene
Concen: 99.376 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 209732

Ion	Ratio	Lower	Upper
75	100		
110	33.9	17.3	51.7
77	30.6	25.4	38.0



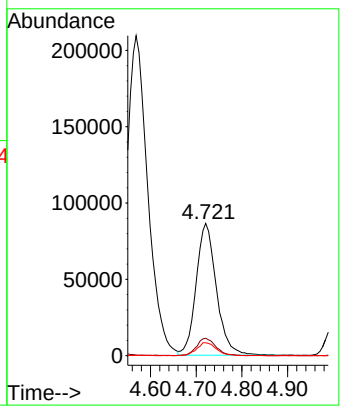


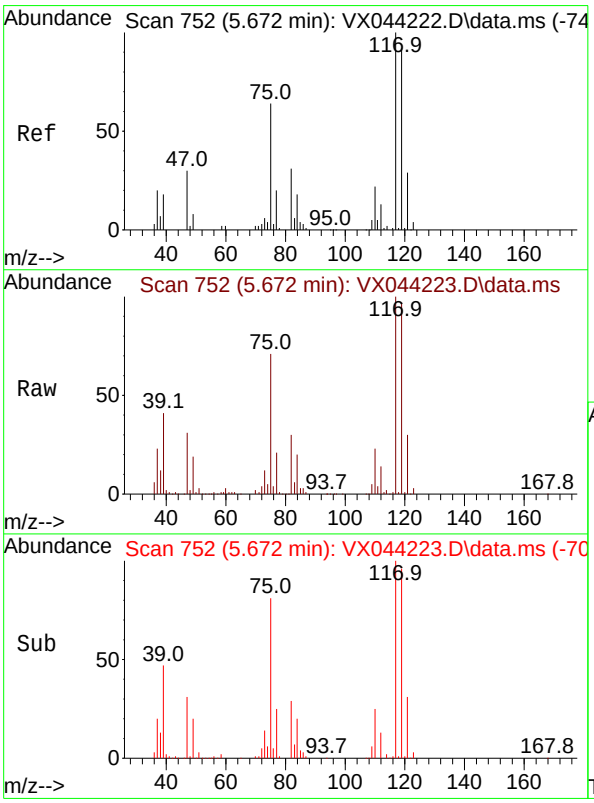
#37
Ethyl Acetate
Concen: 102.079 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 266307

Ion	Ratio	Lower	Upper
43	100		
61	12.5	9.8	14.8
70	9.5	7.7	11.5

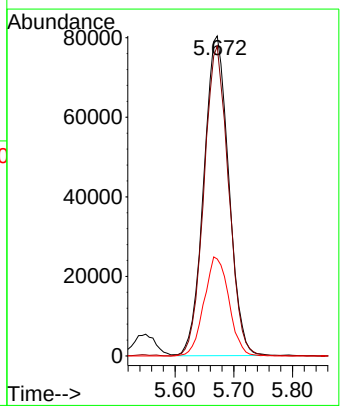


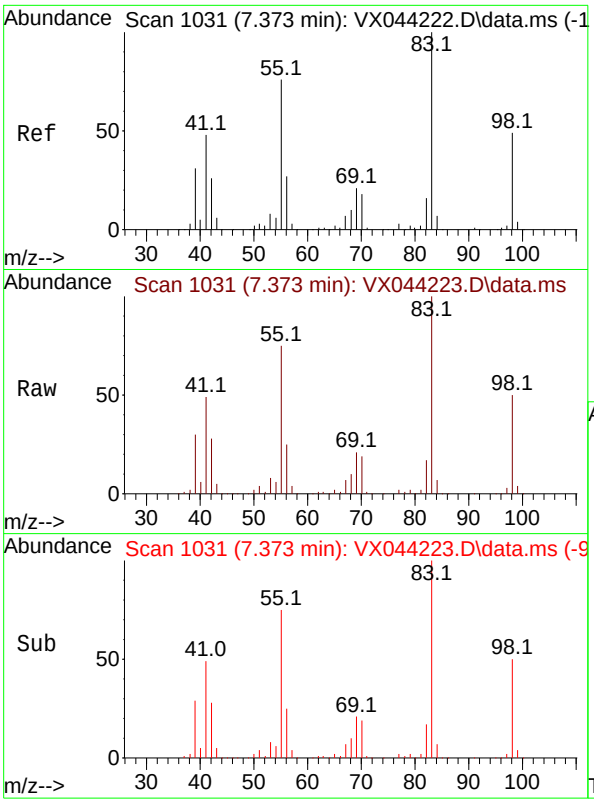


#38
Carbon Tetrachloride
Concen: 104.249 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:117 Resp: 236869

Ion	Ratio	Lower	Upper
117	100		
119	96.7	74.2	111.4
121	30.4	23.0	34.6



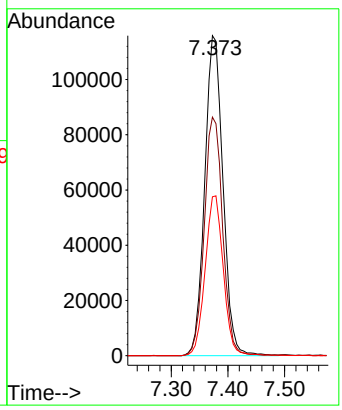


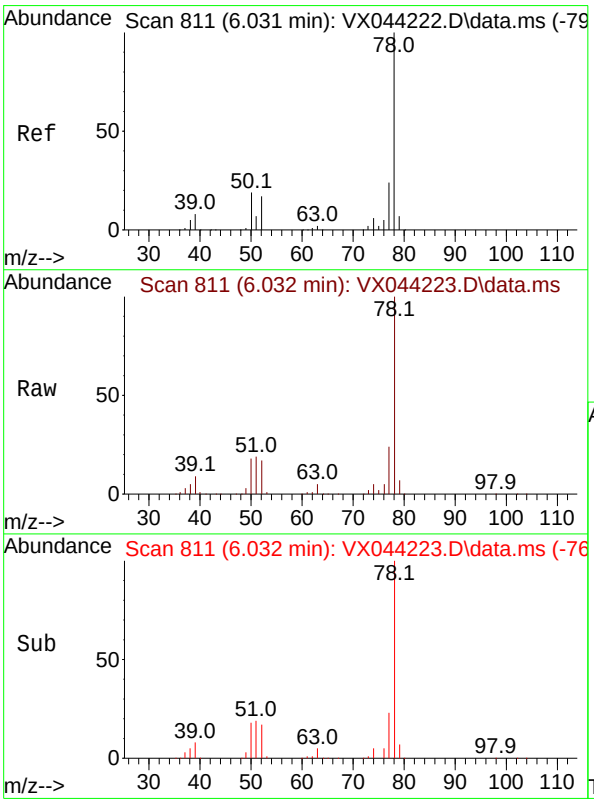
#39
Methylcyclohexane
Concen: 102.800 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 259368

Ion	Ratio	Lower	Upper
83	100		
55	74.5	60.7	91.1
98	49.6	38.9	58.3

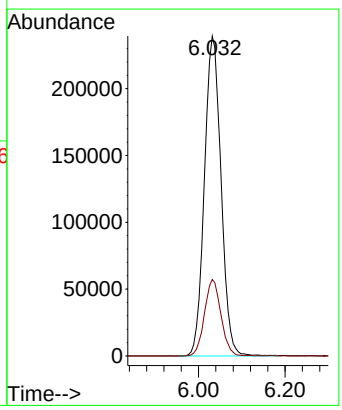


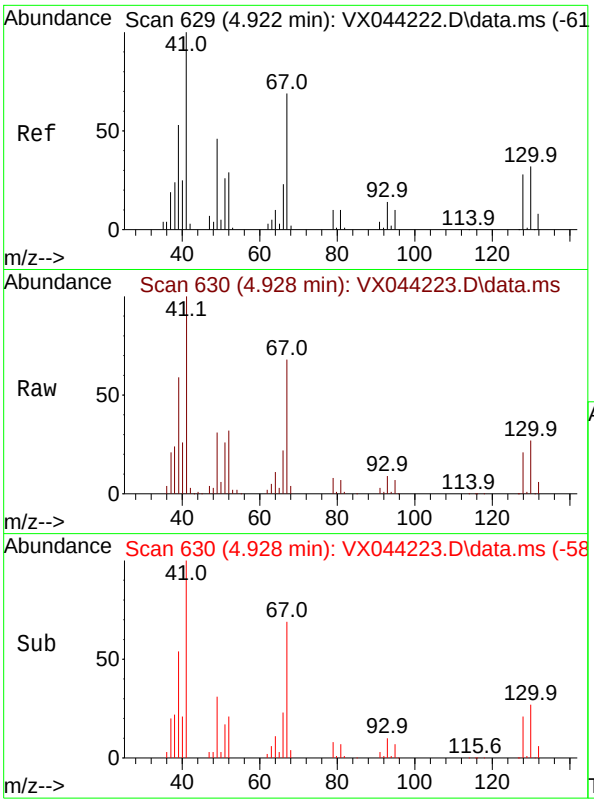


#40
Benzene
Concen: 99.575 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 78 Resp: 638055

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.3	28.9



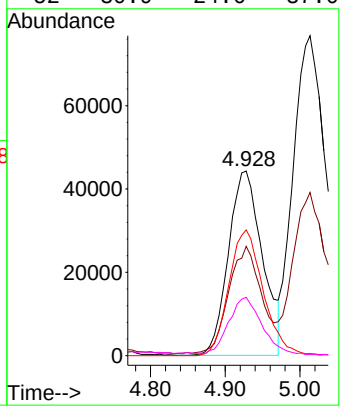


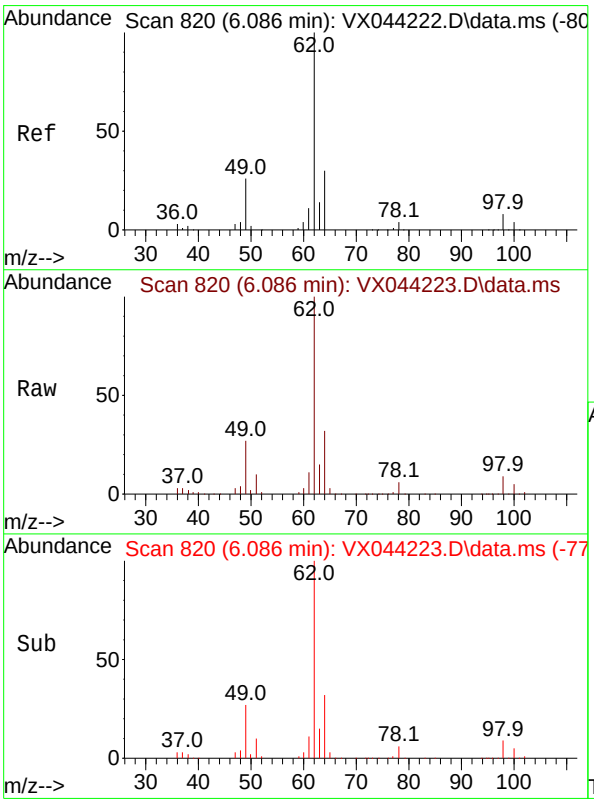
#41
Methacrylonitrile
Concen: 101.332 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 140375

Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.2	66.4
67	69.1	57.2	85.8
52	30.9	24.6	37.0

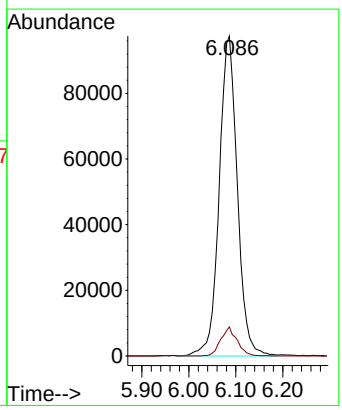


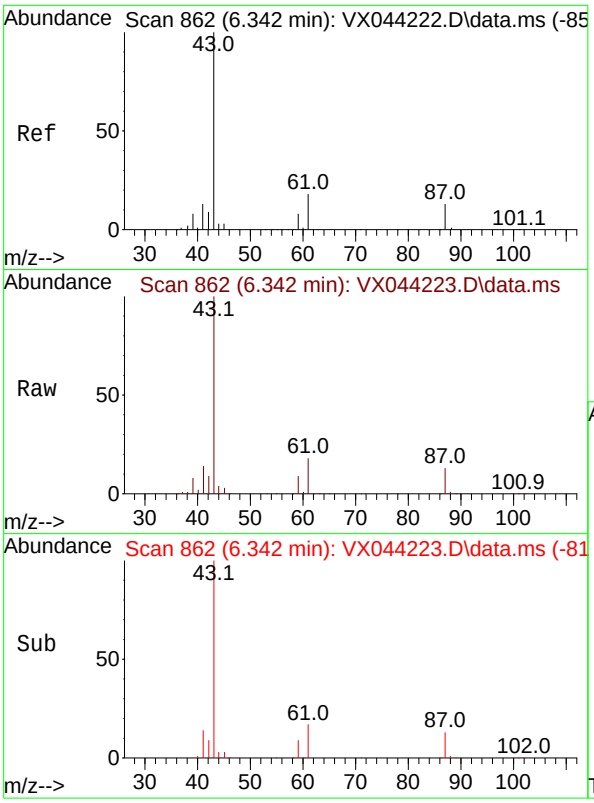


#42
1,2-Dichloroethane
Concen: 99.255 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 62 Resp: 261991

Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	15.8



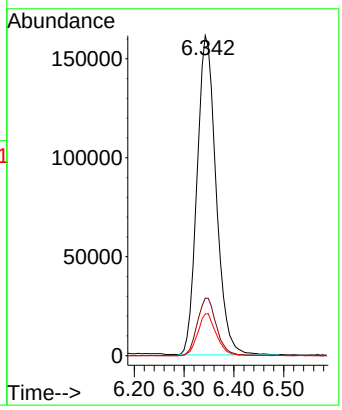


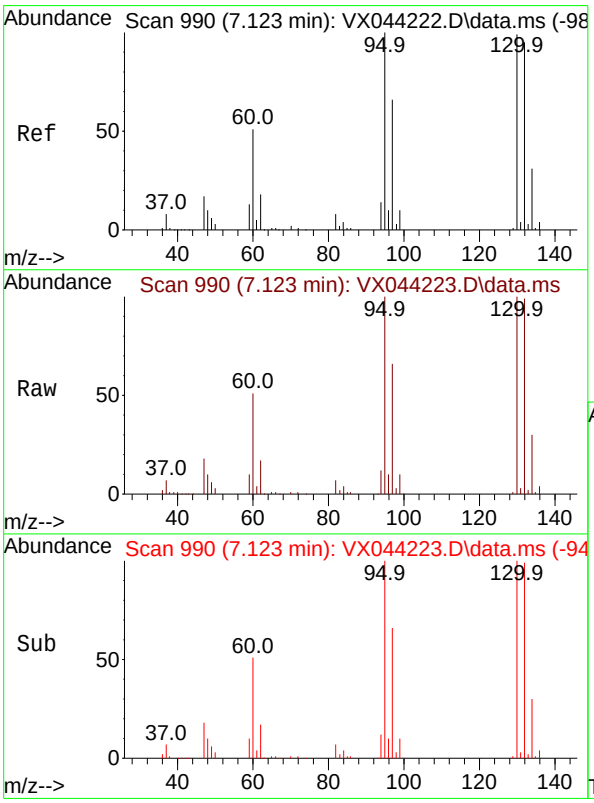
#43
Isopropyl Acetate
Concen: 104.939 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 427893

Ion	Ratio	Lower	Upper
43	100		
61	18.2	14.2	21.2
87	12.8	10.2	15.2

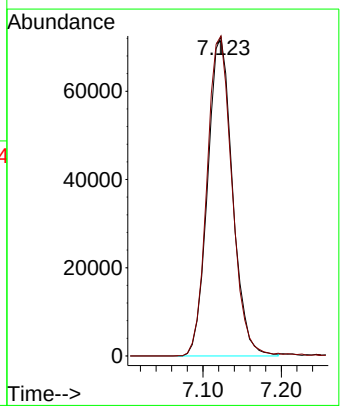


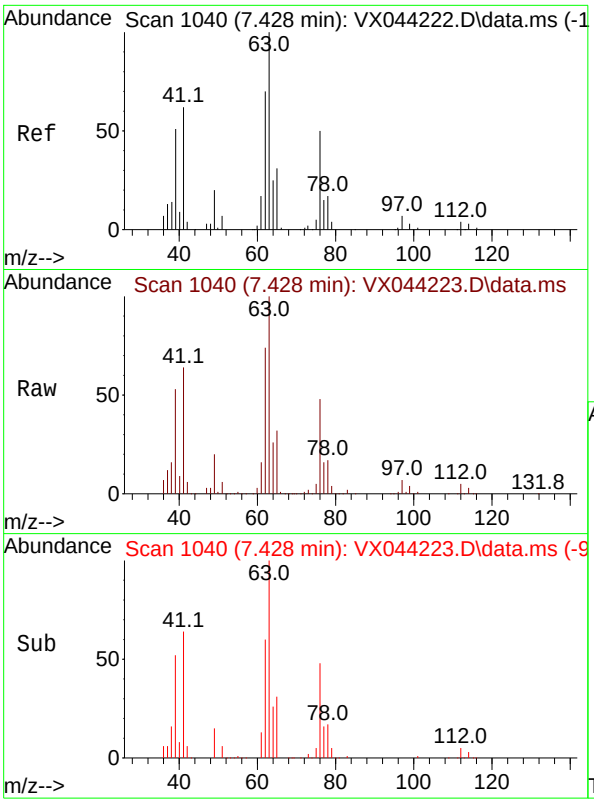


#44
Trichloroethene
Concen: 99.497 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:130 Resp: 158990

Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	201.4



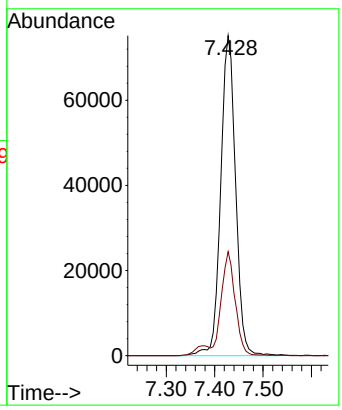


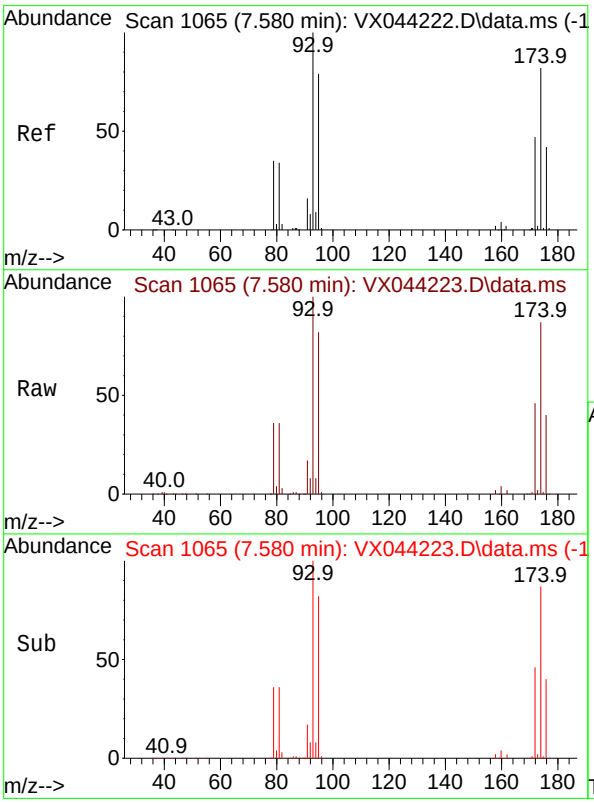
#45
1,2-Dichloropropane
Concen: 98.293 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 160913

Ion	Ratio	Lower	Upper
63	100		
65	32.5	24.6	37.0

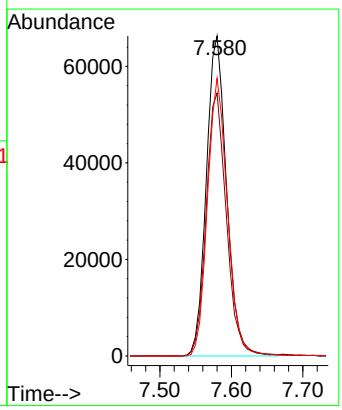


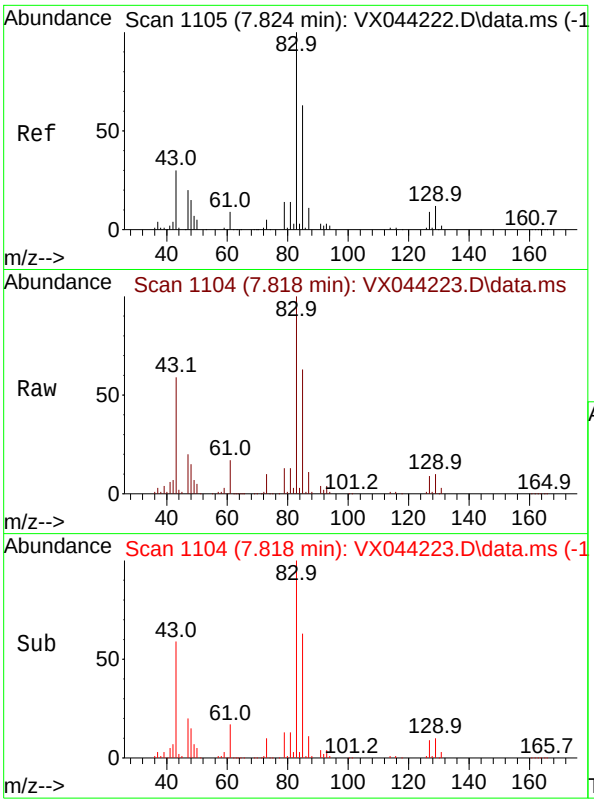


#46
Dibromomethane
Concen: 102.607 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 93 Resp: 130316

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.4	98.2
174	86.1	67.9	101.9



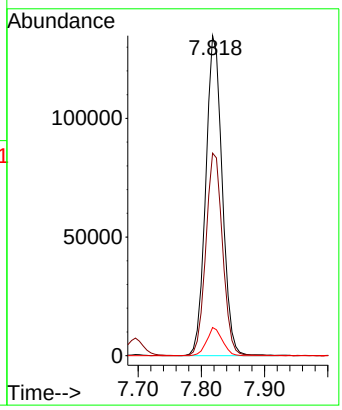


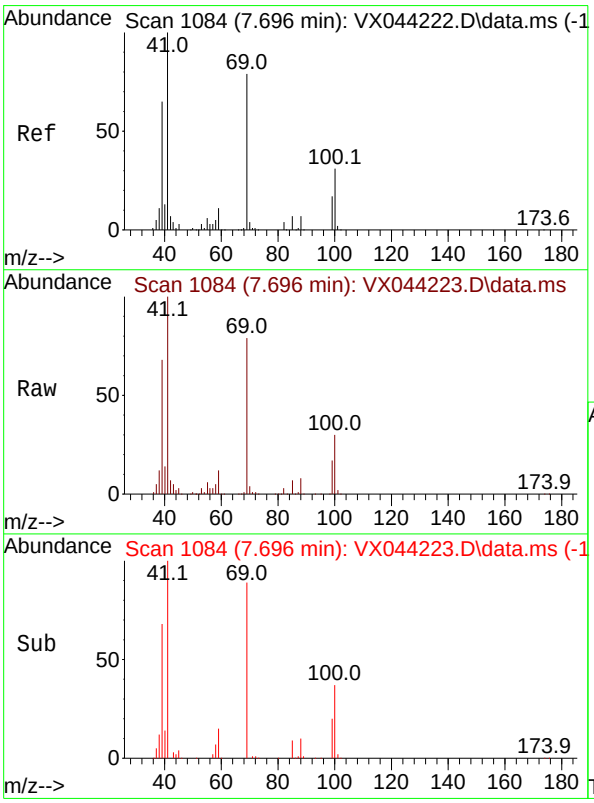
#47
Bromodichloromethane
Concen: 111.423 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 244401

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	8.8	7.3	10.9

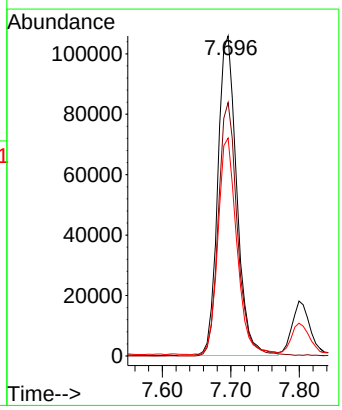


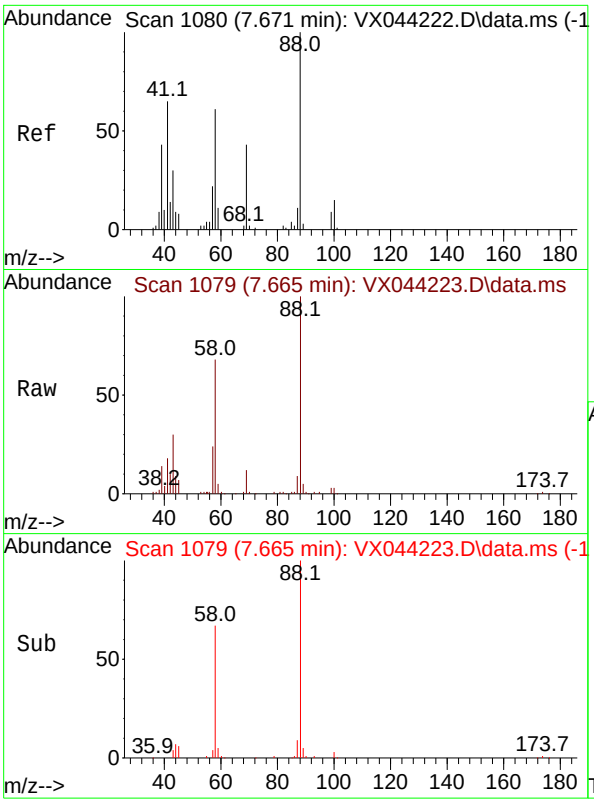


#48
Methyl methacrylate
Concen: 102.618 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 41 Resp: 203116

Ion	Ratio	Lower	Upper
41	100		
69	79.5	62.4	93.6
39	67.4	53.3	79.9



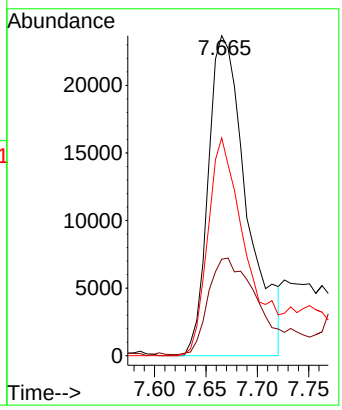


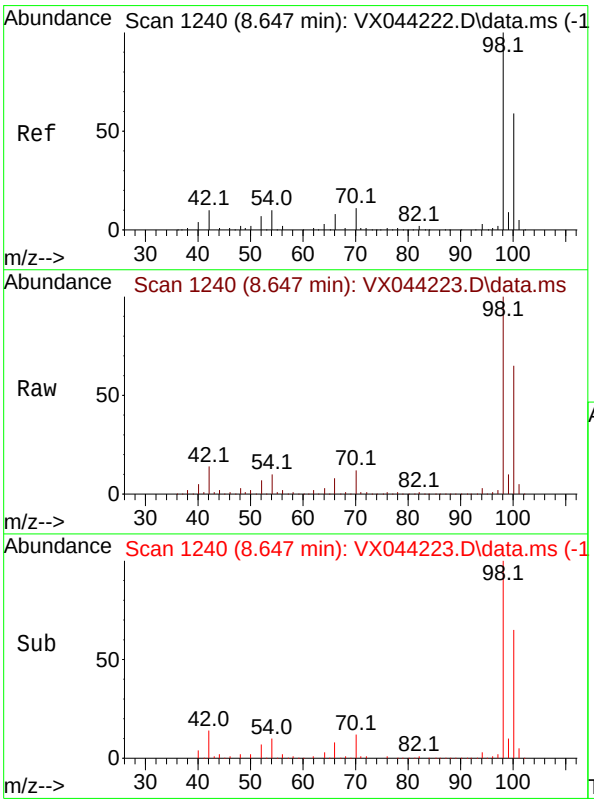
#49
1,4-Dioxane
Concen: 1830.521 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 61921

Ion	Ratio	Lower	Upper
88	100		
43	41.4	27.1	40.7#
58	68.6	41.0	61.4#

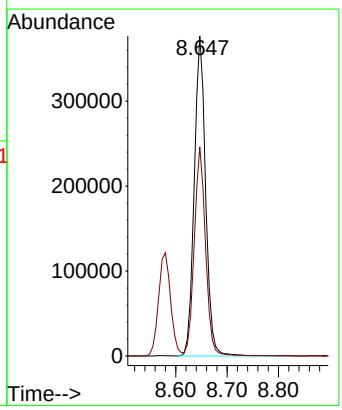


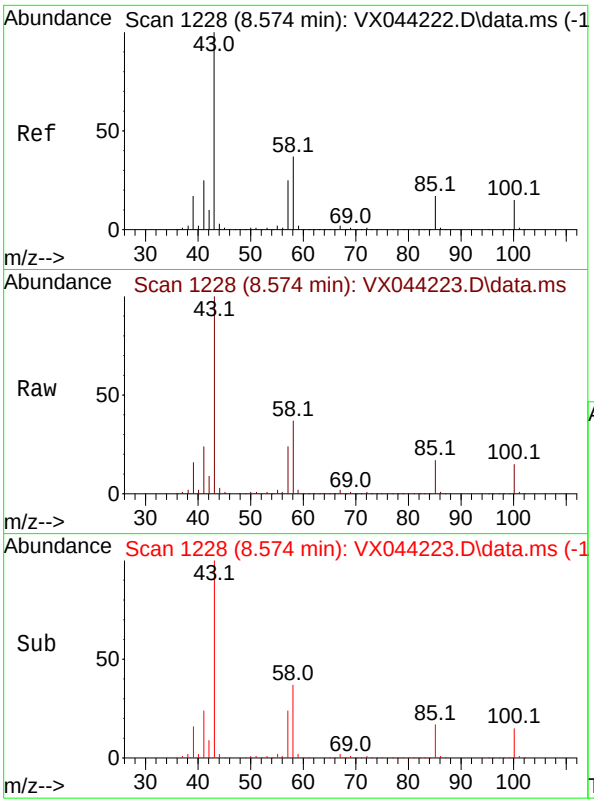


#50
Toluene-d8
Concen: 105.201 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 98 Resp: 579477

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.5	77.3



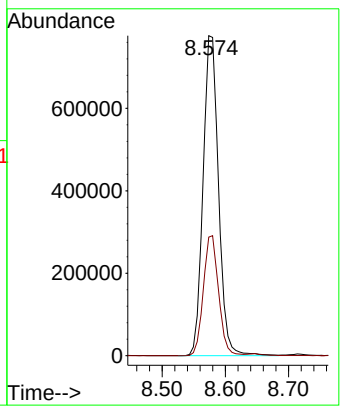


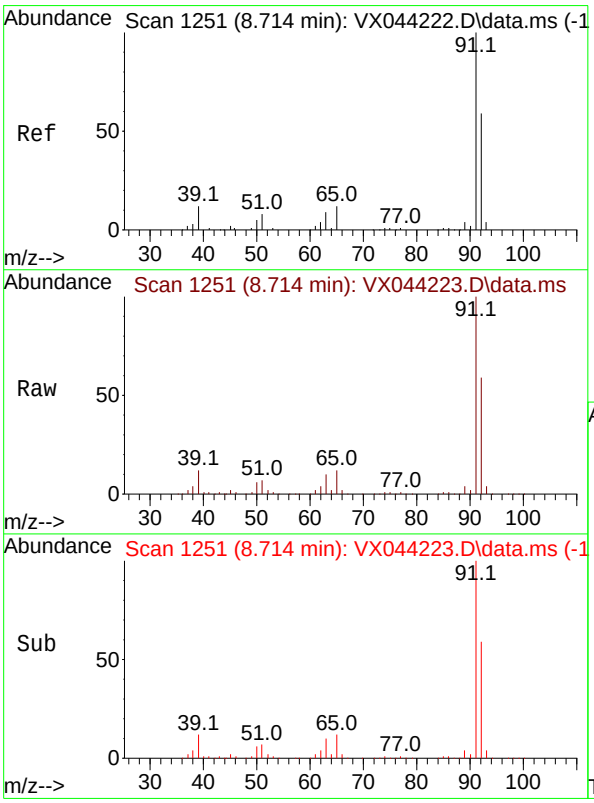
#51
4-Methyl-2-Pentanone
Concen: 504.496 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1322678

Ion	Ratio	Lower	Upper
43	100		
58	37.0	29.4	44.0

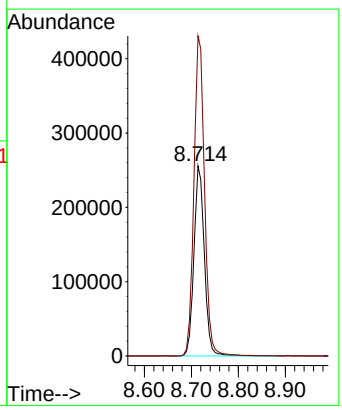


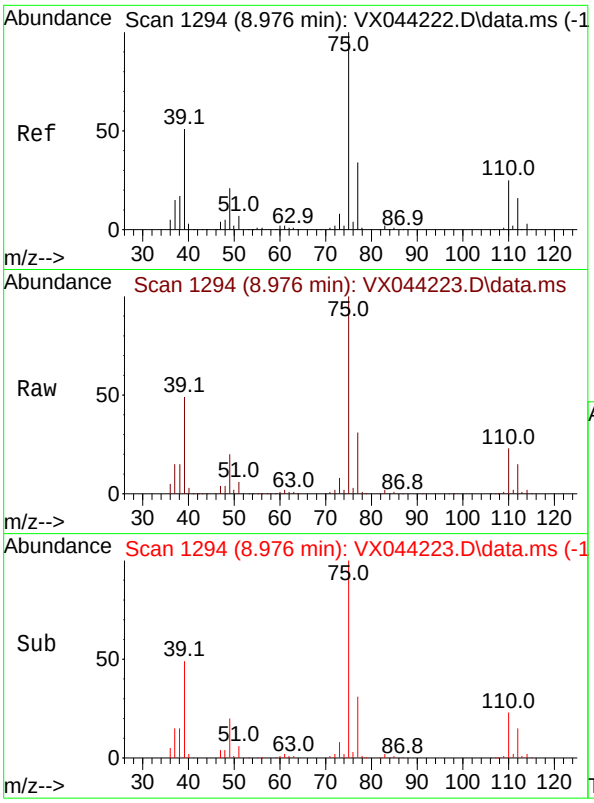


#52
Toluene
Concen: 98.506 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 92 Resp: 396383

Ion	Ratio	Lower	Upper
92	100		
91	171.4	137.0	205.6



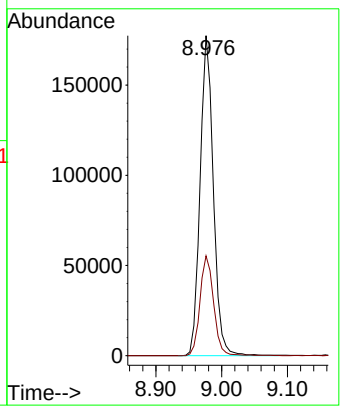


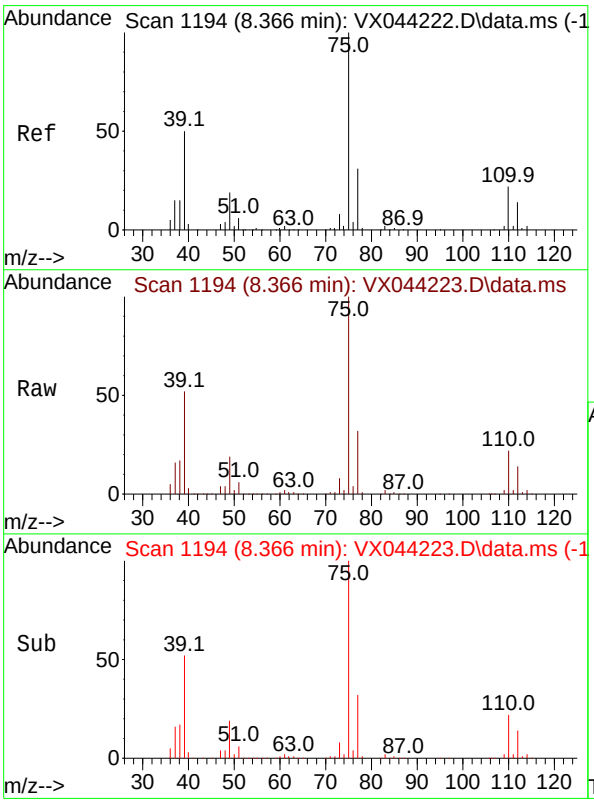
#53
t-1,3-Dichloropropene
Concen: 99.321 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 248092

Ion	Ratio	Lower	Upper
75	100		
77	31.2	27.2	40.8

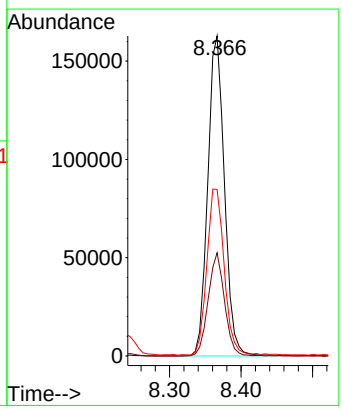


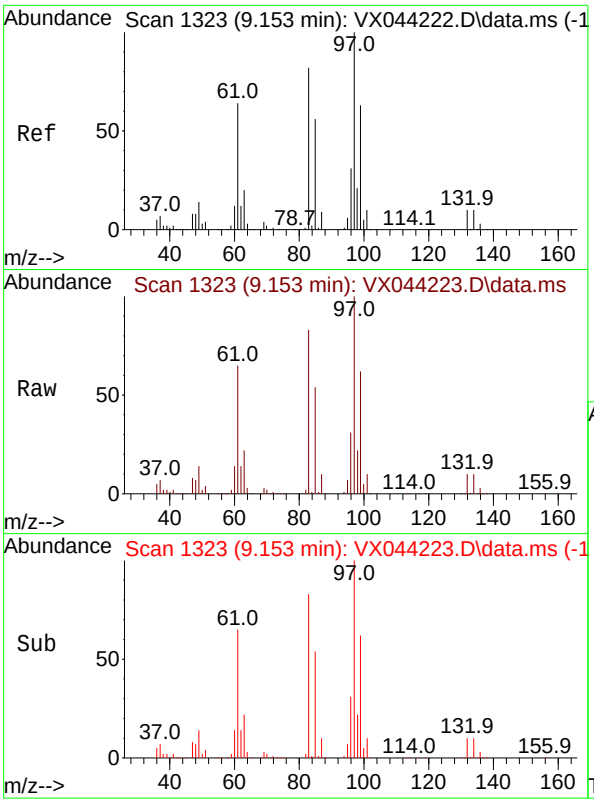


#54
cis-1,3-Dichloropropene
Concen: 110.127 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 263014

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.7	37.1
39	51.8	40.3	60.5



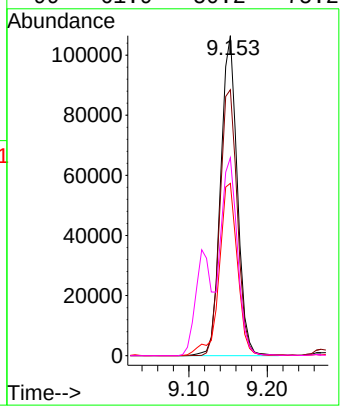


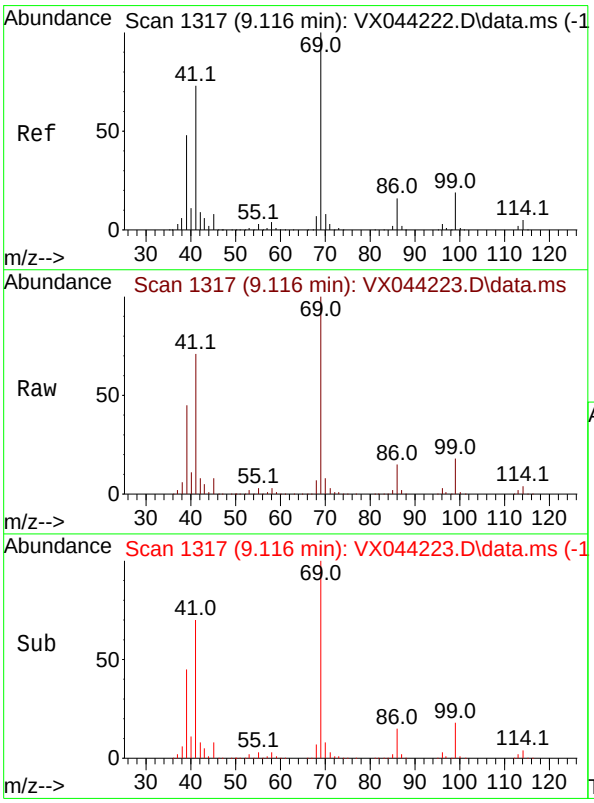
#55
1,1,2-Trichloroethane
Concen: 98.441 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 157366

Ion	Ratio	Lower	Upper
97	100		
83	83.1	65.3	97.9
85	53.8	44.6	67.0
99	61.9	50.2	75.2

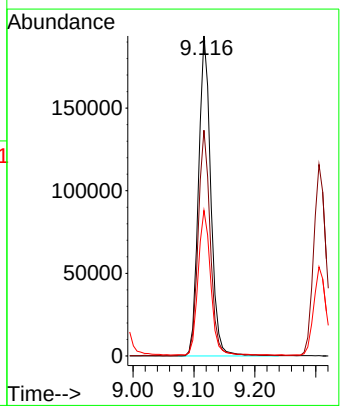


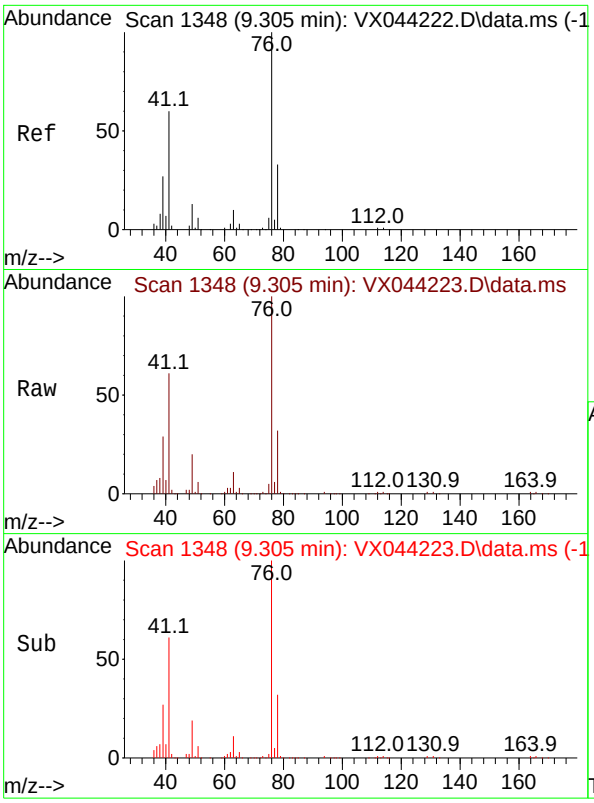


#56
Ethyl methacrylate
Concen: 107.442 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 69 Resp: 271146

Ion	Ratio	Lower	Upper
69	100		
41	69.4	56.6	85.0
39	46.1	37.4	56.0



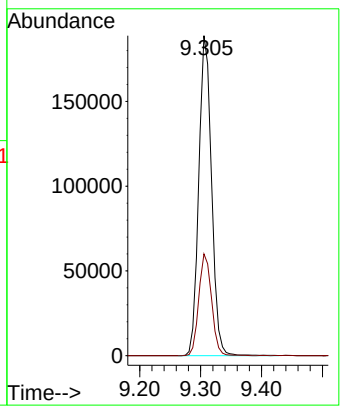


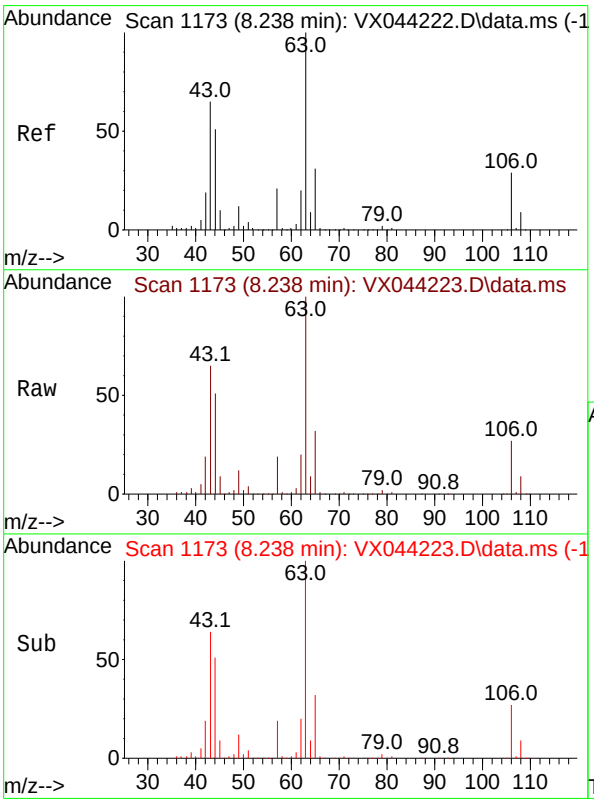
#57
1,3-Dichloropropane
Concen: 98.704 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 274642

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.5	39.7

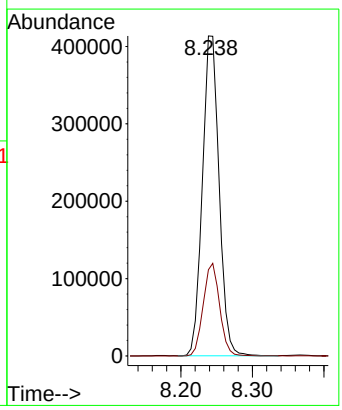


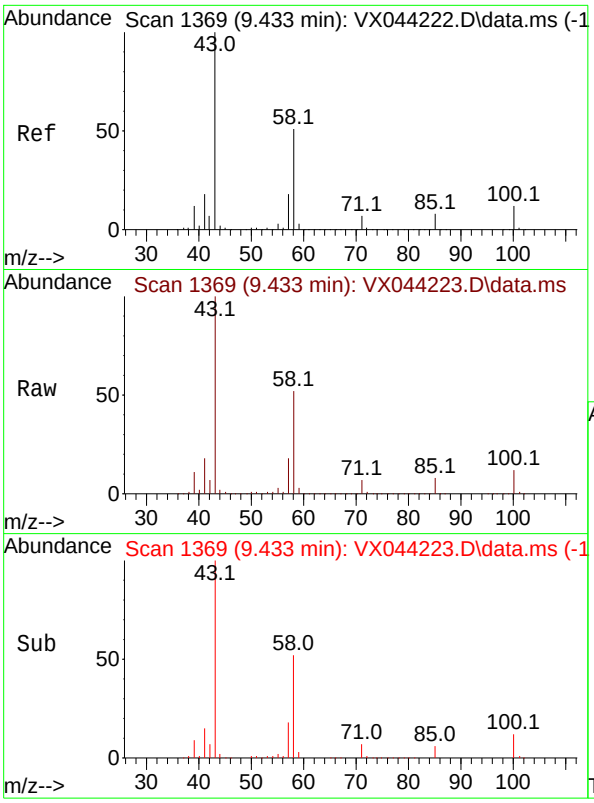


#58
2-Chloroethyl Vinyl ether
Concen: 527.342 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 63 Resp: 671233

Ion	Ratio	Lower	Upper
63	100		
106	28.4	22.8	34.2



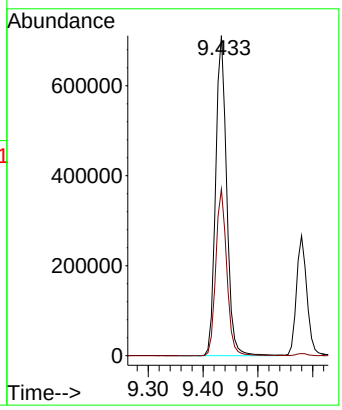


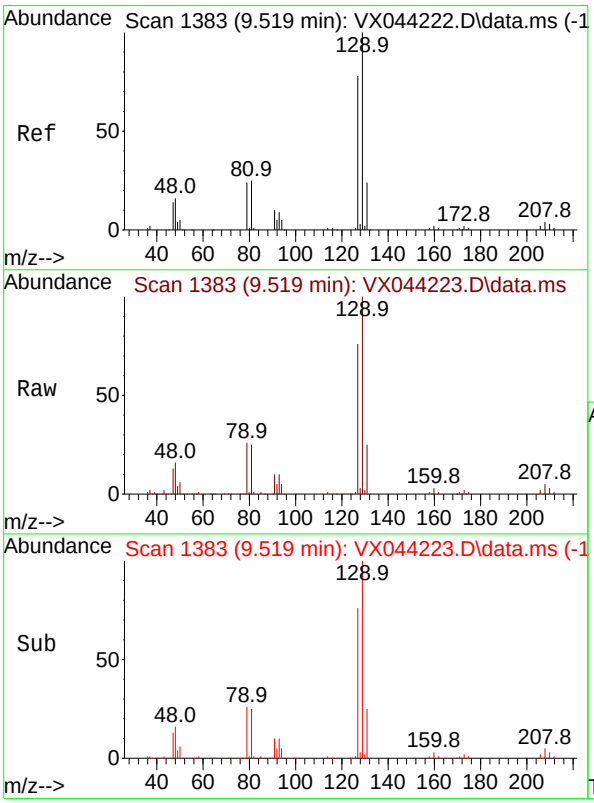
#59
2-Hexanone
Concen: 521.401 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 989466

Ion	Ratio	Lower	Upper
43	100		
58	51.9	25.7	77.0

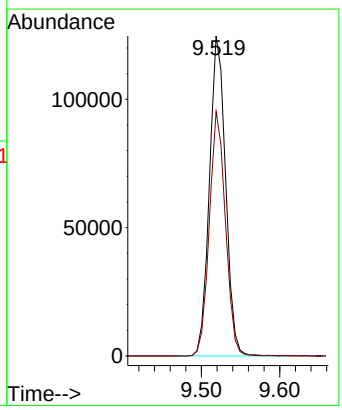


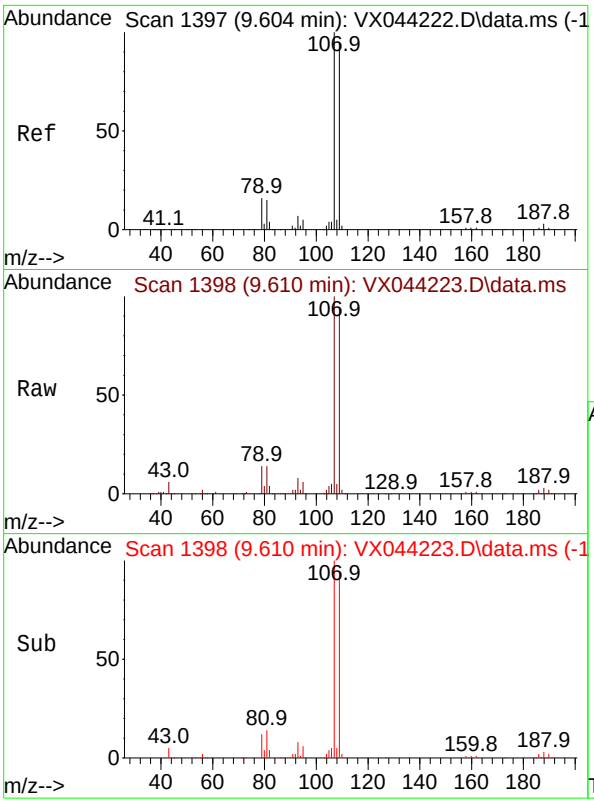


#60
Dibromochloromethane
Concen: 99.480 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:129 Resp: 178135

Ion	Ratio	Lower	Upper
129	100		
127	76.0	38.5	115.3



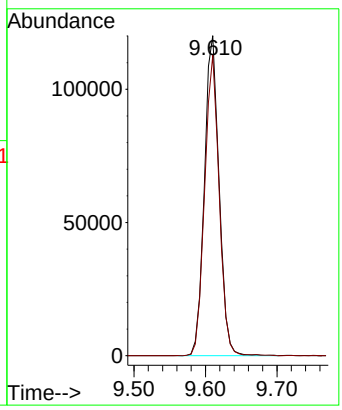


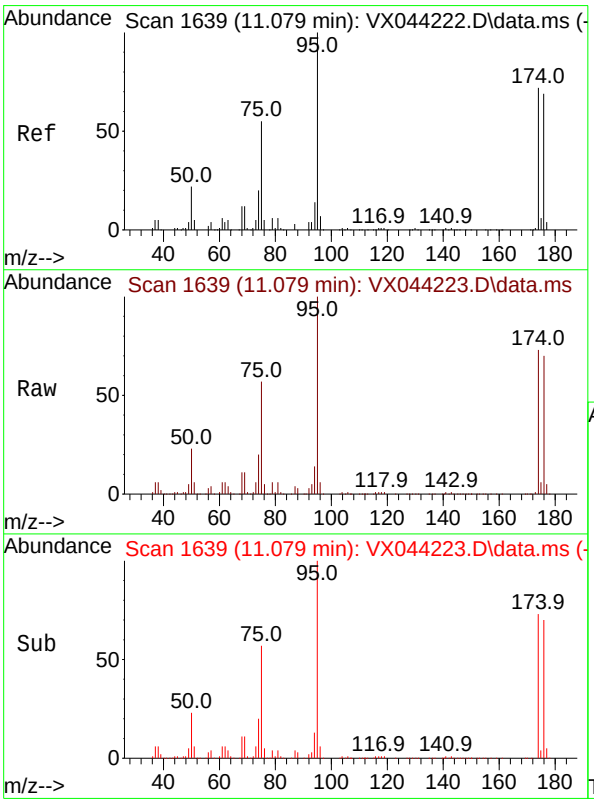
#61
1,2-Dibromoethane
Concen: 105.371 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 171458

Ion	Ratio	Lower	Upper
107	100		
109	93.1	77.0	115.4

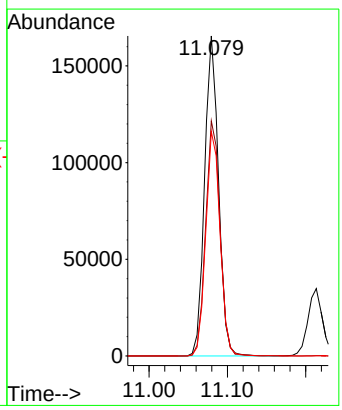


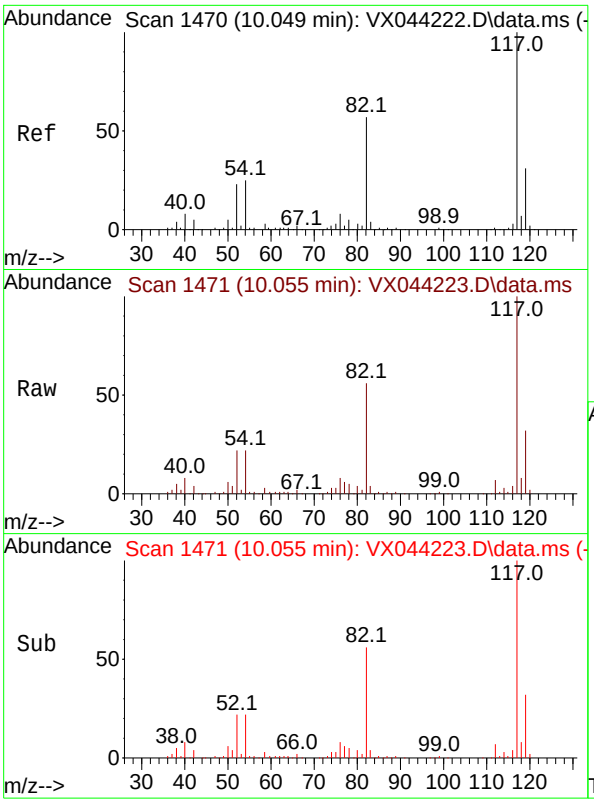


#62
4-Bromofluorobenzene
Concen: 105.830 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 95 Resp: 203694

Ion	Ratio	Lower	Upper
95	100		
174	76.0	0.0	145.8
176	72.0	0.0	137.8



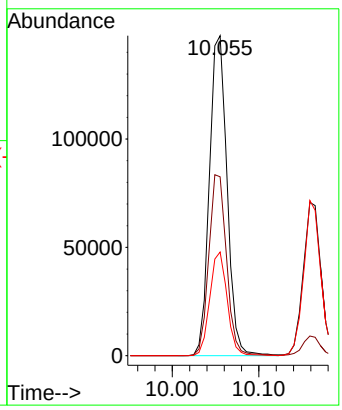


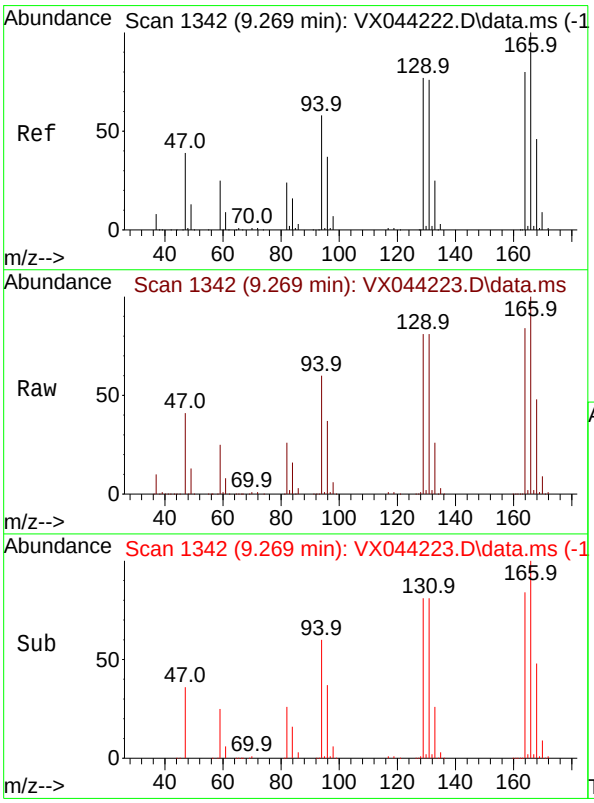
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 209164

Ion	Ratio	Lower	Upper
117	100		
82	55.9	45.8	68.8
119	32.4	25.0	37.4

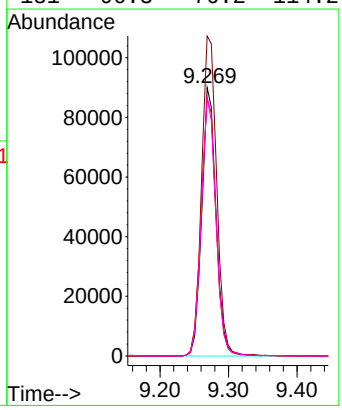


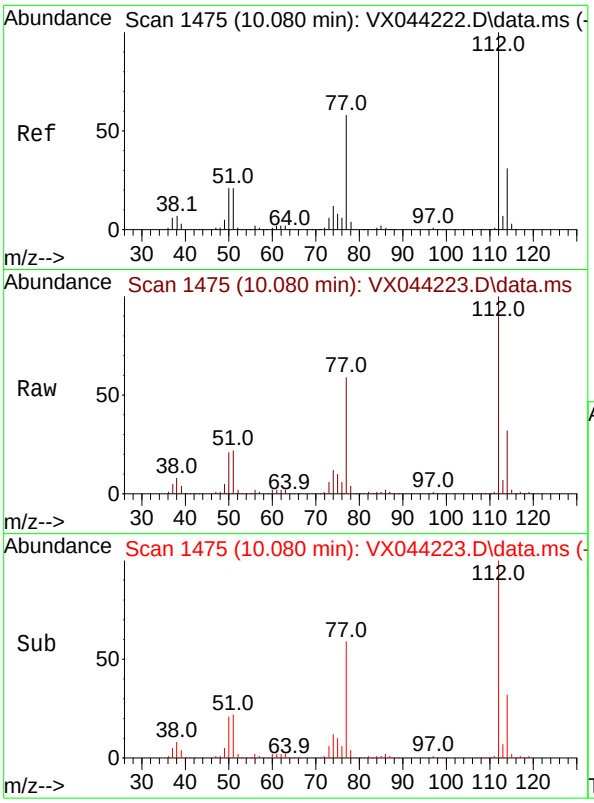


#64
Tetrachloroethene
Concen: 94.131 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:164 Resp: 130678

Ion	Ratio	Lower	Upper
164	100		
166	119.2	100.4	150.6
129	96.1	77.2	115.8
131	96.3	76.2	114.2



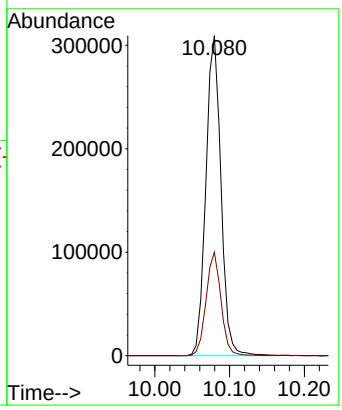


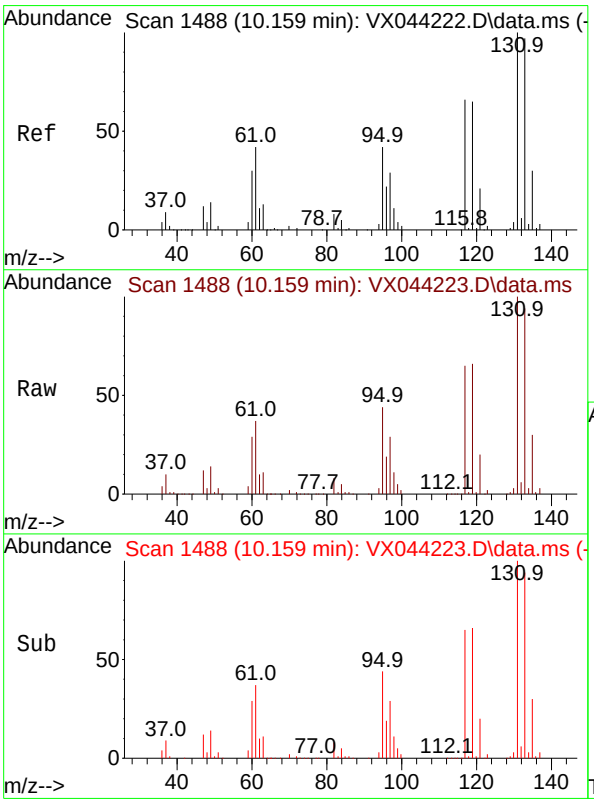
#65
Chlorobenzene
Concen: 96.650 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 433179

Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.0	37.6

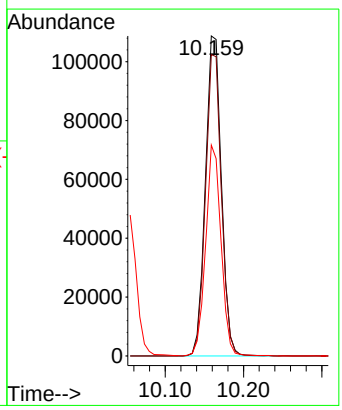


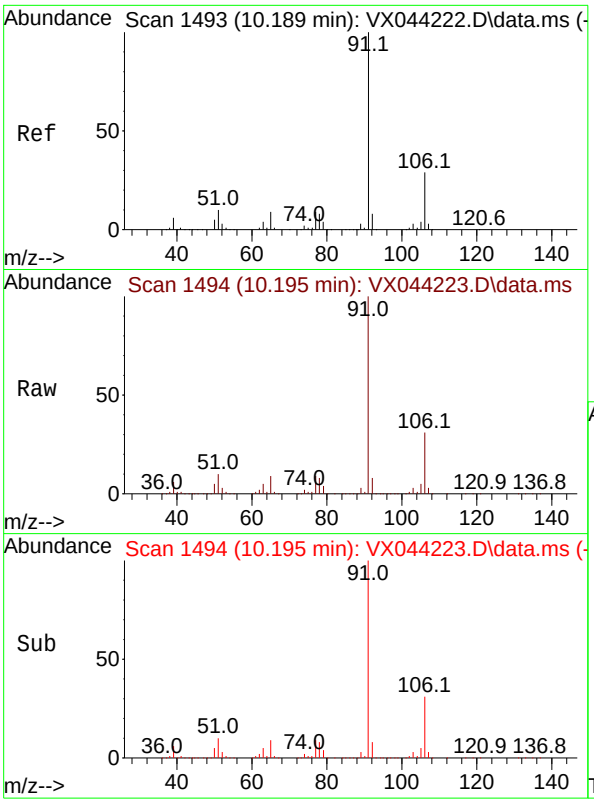


#66
1,1,1,2-Tetrachloroethane
Concen: 106.831 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:131 Resp: 153882

Ion	Ratio	Lower	Upper
131	100		
133	93.6	47.3	141.8
119	63.5	31.6	95.0



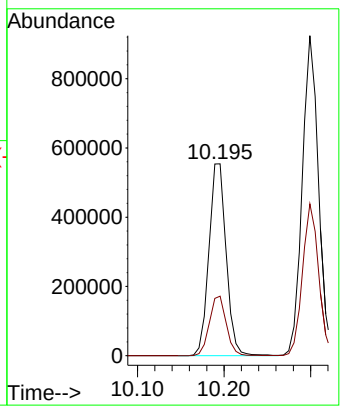


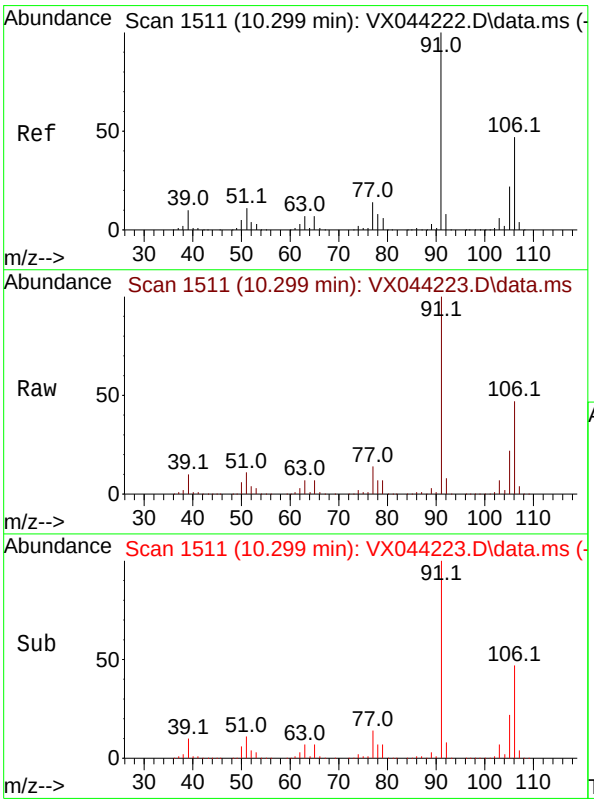
#67
Ethyl Benzene
Concen: 98.906 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 765930

Ion	Ratio	Lower	Upper
91	100		
106	31.0	23.5	35.3

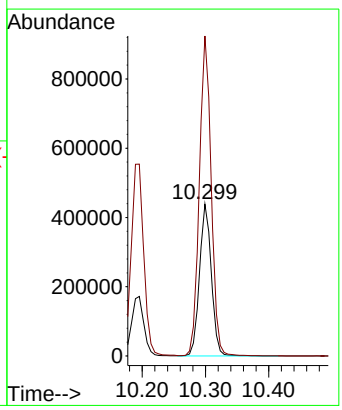


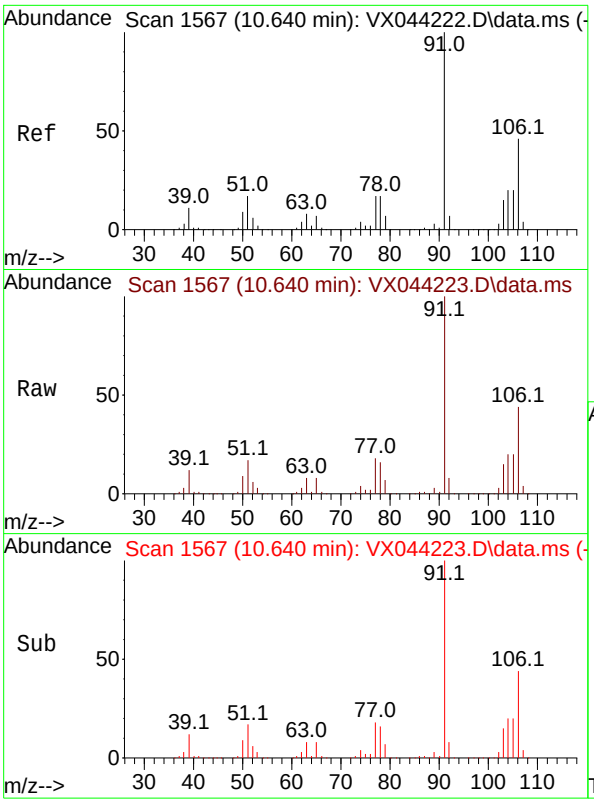


#68
m/p-Xylenes
Concen: 201.171 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:106 Resp: 571648

Ion	Ratio	Lower	Upper
106	100		
91	211.0	170.2	255.2



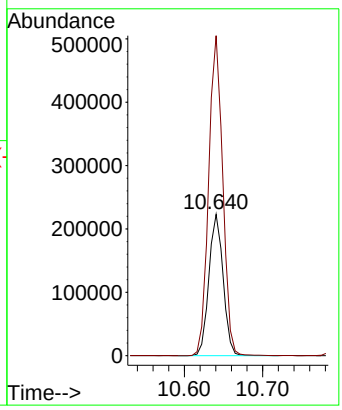


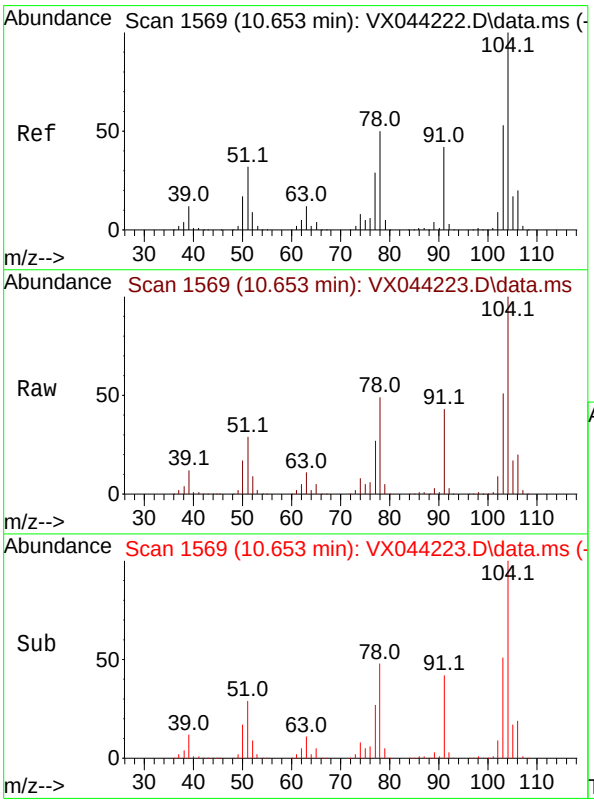
#69
o-Xylene
Concen: 97.597 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 280603

Ion	Ratio	Lower	Upper
106	100		
91	223.9	112.3	337.0

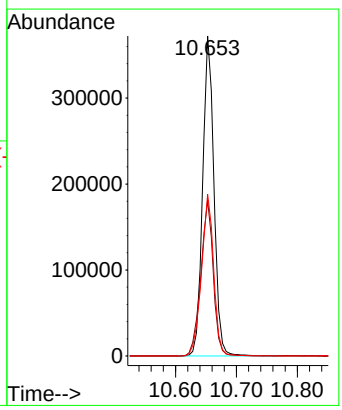


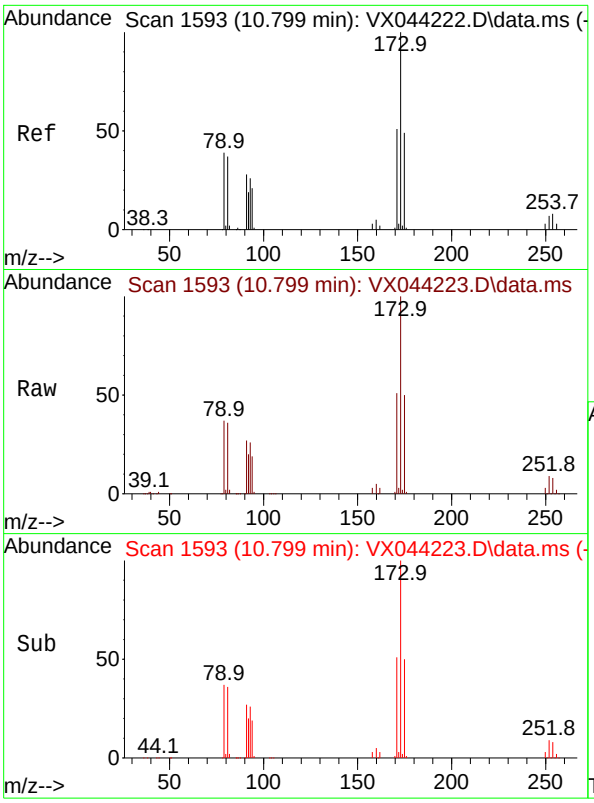


#70
Styrene
Concen: 104.159 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:104 Resp: 480077

Ion	Ratio	Lower	Upper
104	100		
78	53.5	44.6	67.0
103	54.5	45.4	68.0



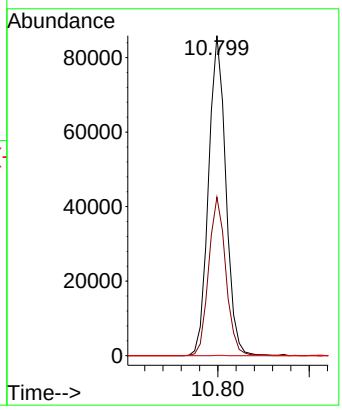


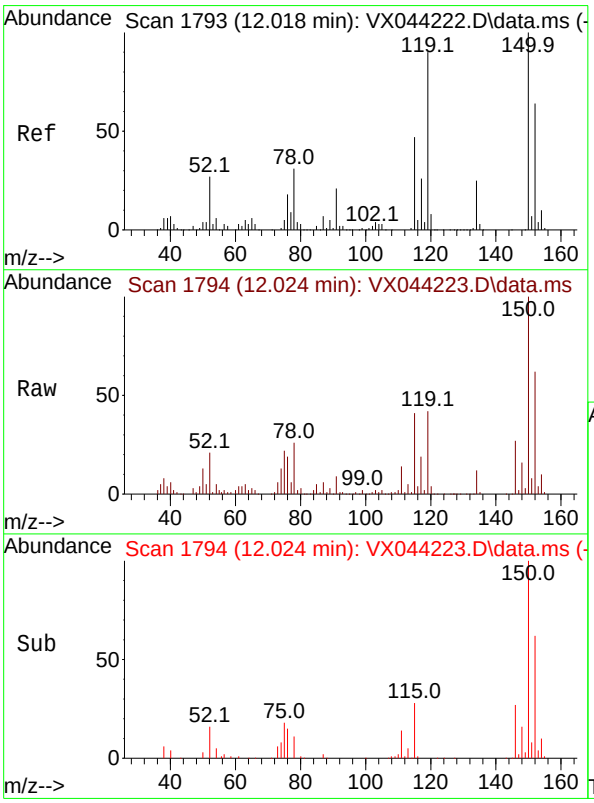
#71
Bromoform
Concen: 99.723 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 112482

Ion	Ratio	Lower	Upper
173	100		
175	49.2	23.8	71.4
254	0.1	0.0	0.0#

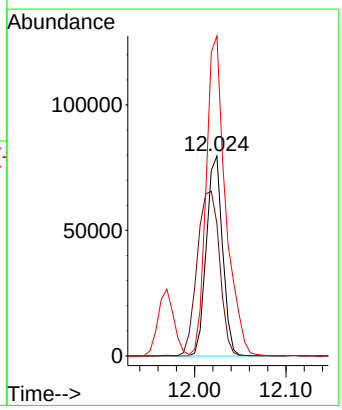


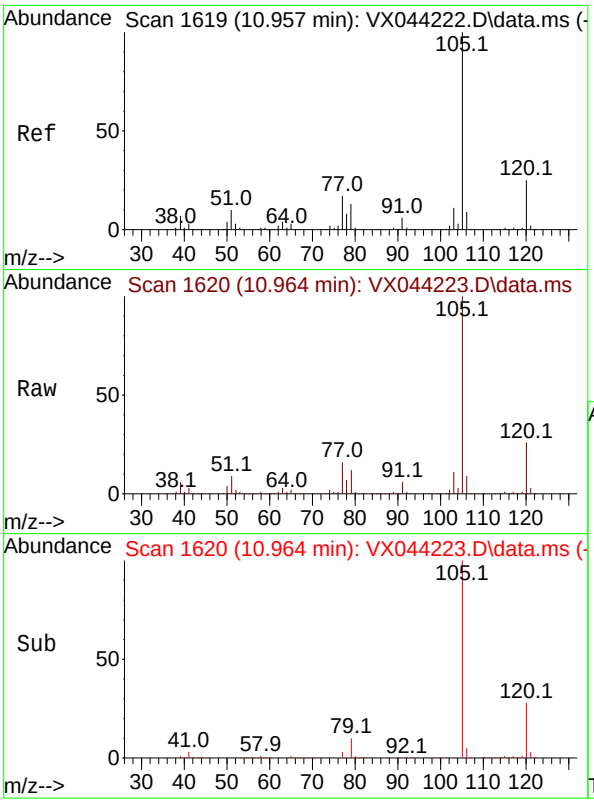


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:152 Resp: 97670

Ion	Ratio	Lower	Upper
152	100		
115	114.3	44.5	133.3
150	190.6	0.0	353.8



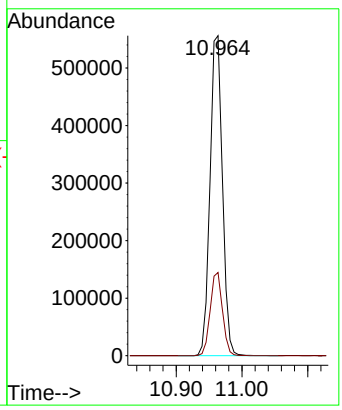


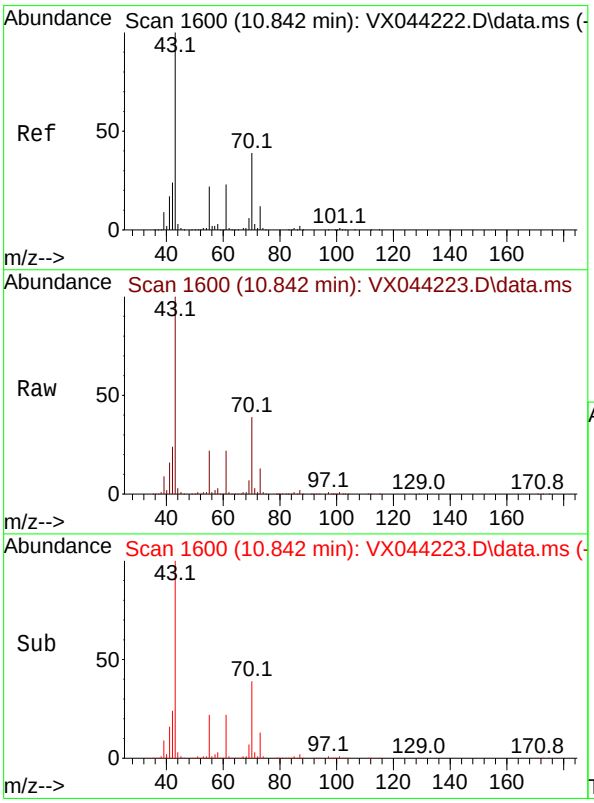
#73
Isopropylbenzene
Concen: 97.894 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 731955

Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.1	39.3

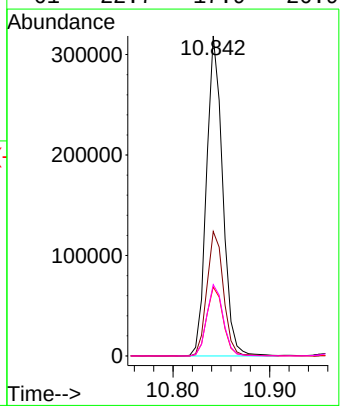


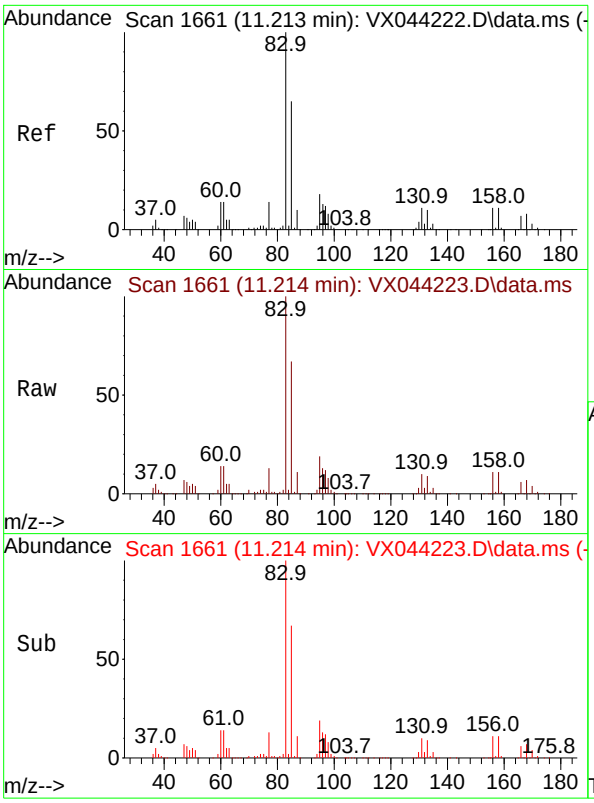


#74
N-amyl acetate
Concen: 107.485 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 371420

Ion	Ratio	Lower	Upper
43	100		
70	39.7	31.9	47.9
55	22.2	17.9	26.9
61	22.7	17.9	26.9



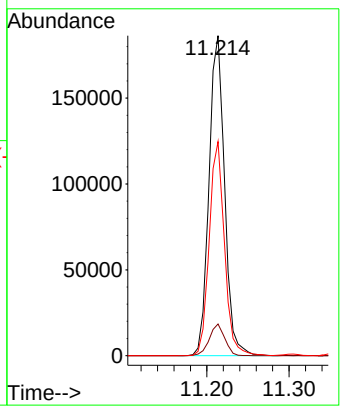


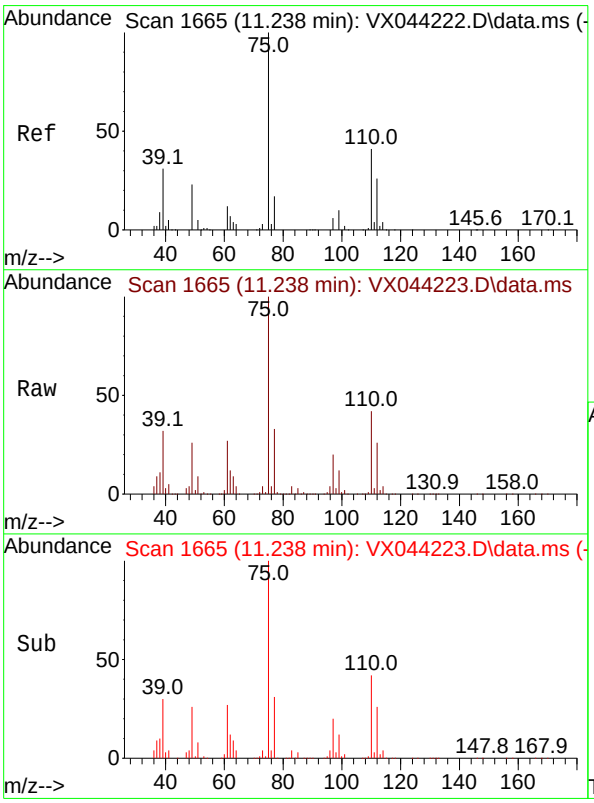
#75
1,1,2,2-Tetrachloroethane
Concen: 94.491 ug/l
RT: 11.214 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 245395

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.4
85	65.4	32.5	97.4

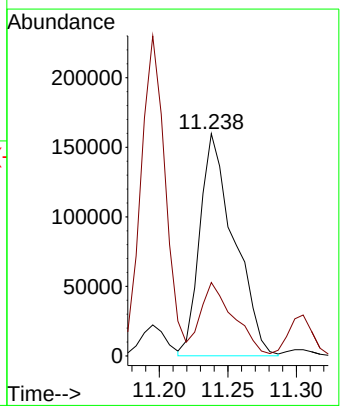


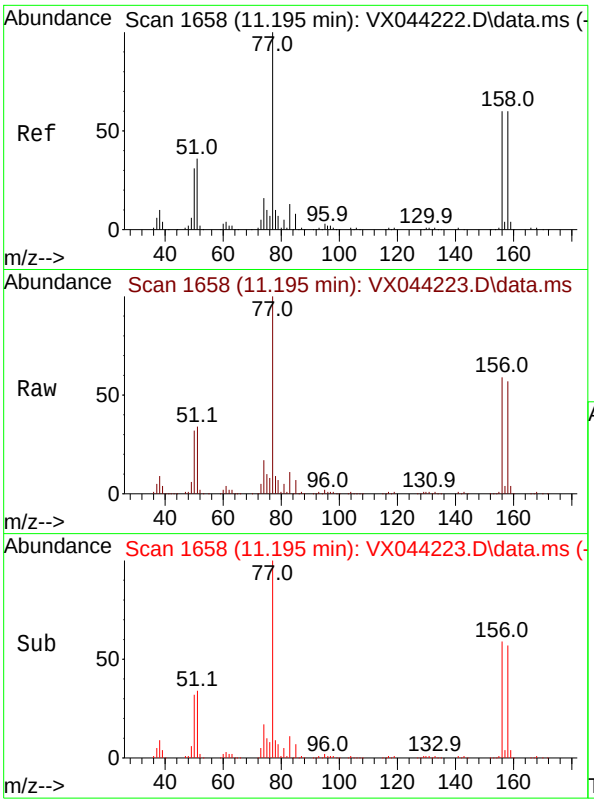


#76
1,2,3-Trichloropropane
Concen: 125.569 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 278299

Ion	Ratio	Lower	Upper
75	100		
77	32.2	20.9	62.7



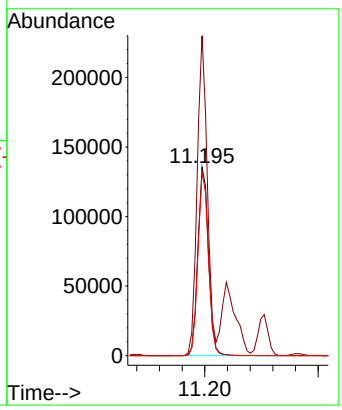


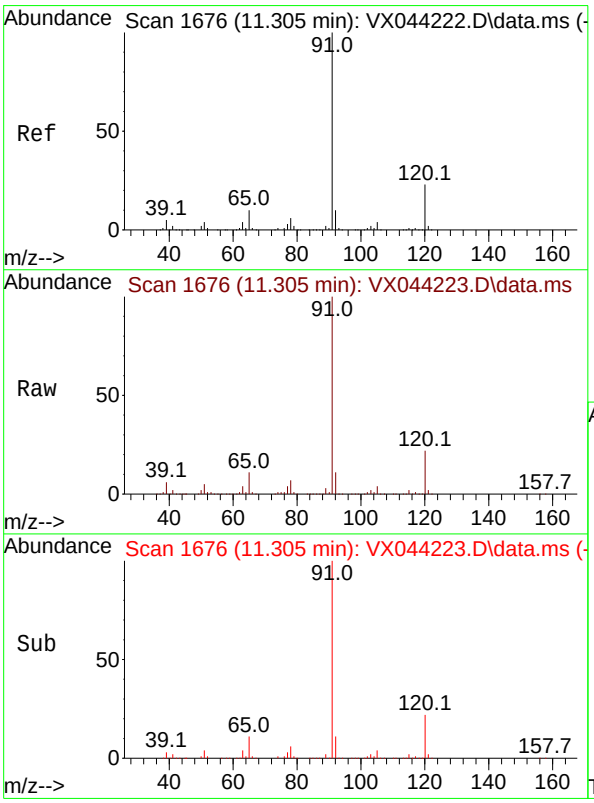
#77
Bromobenzene
Concen: 96.874 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 175647

Ion	Ratio	Lower	Upper
156	100		
77	162.7	82.6	247.8
158	96.2	48.8	146.4

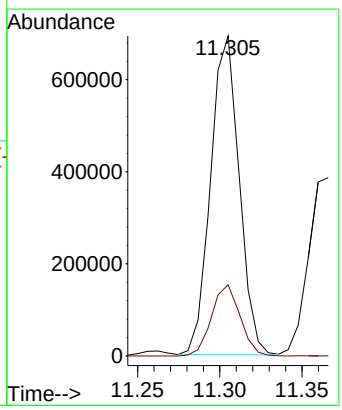


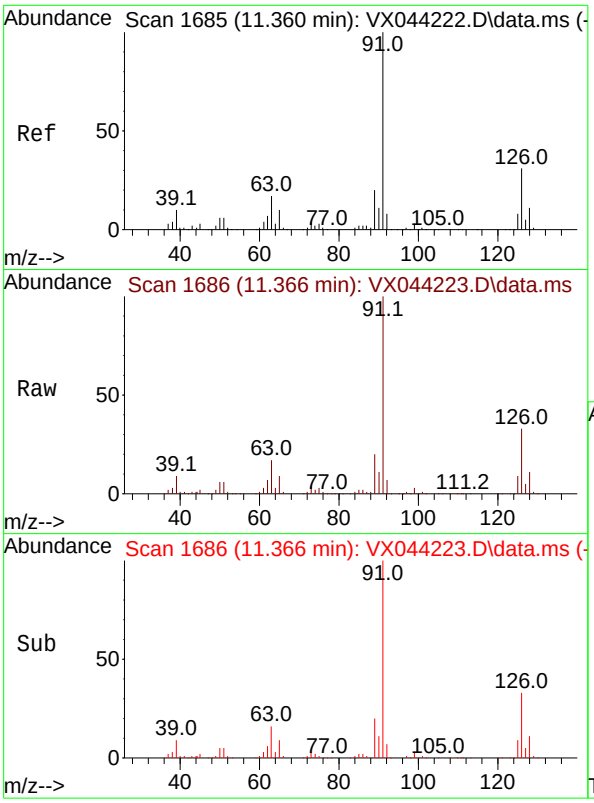


#78
n-propylbenzene
Concen: 101.242 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 91 Resp: 836676

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.0	33.0



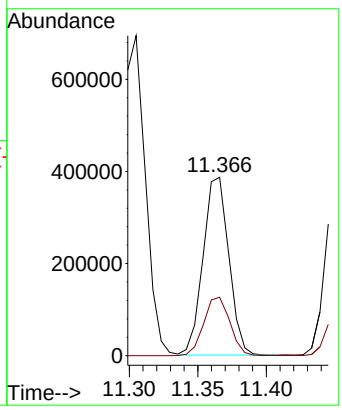


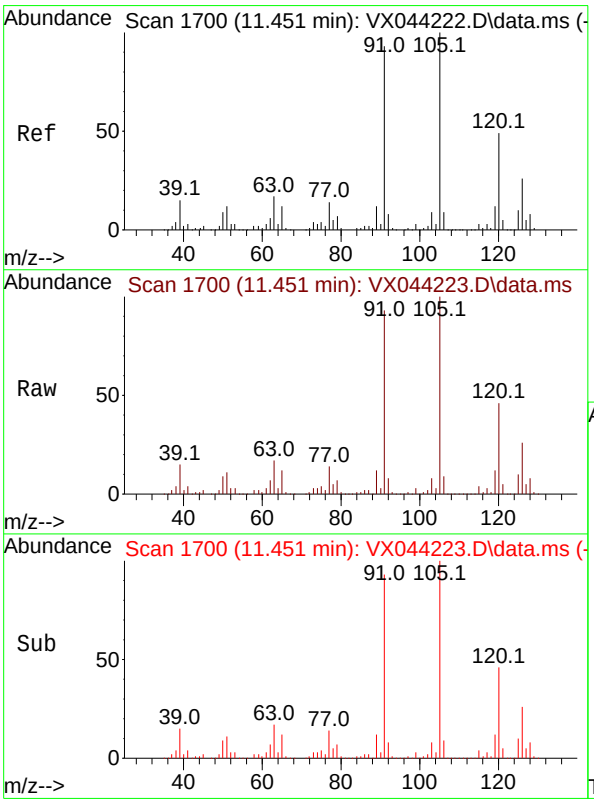
#79
2-Chlorotoluene
Concen: 94.377 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 504407

Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.4	49.1

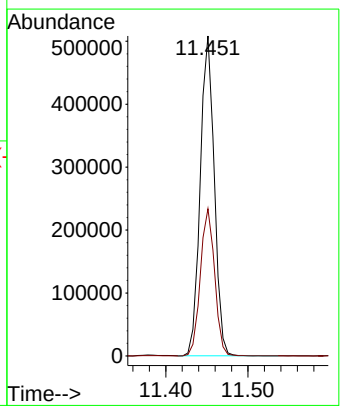


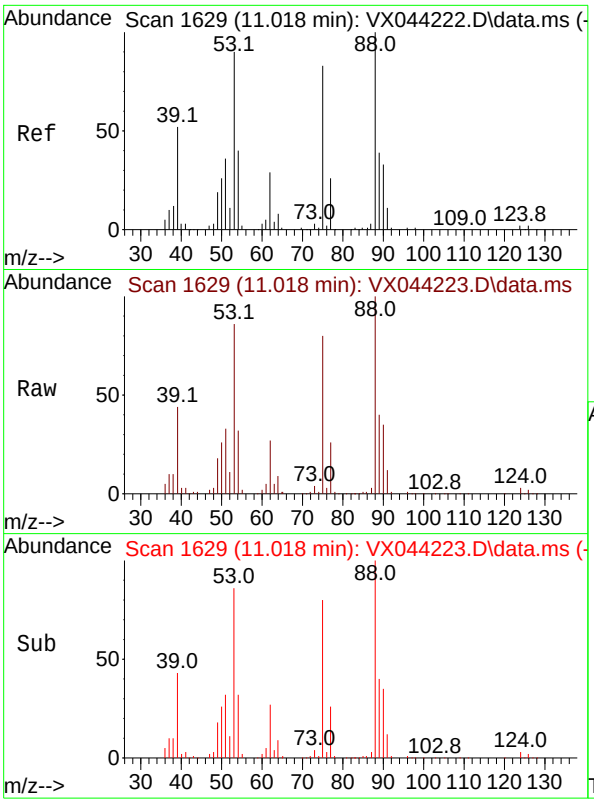


#80
1,3,5-Trimethylbenzene
Concen: 97.570 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:105 Resp: 604993

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.8	71.4



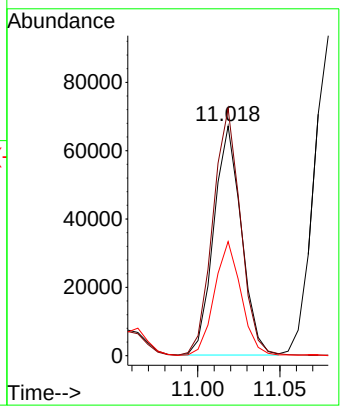


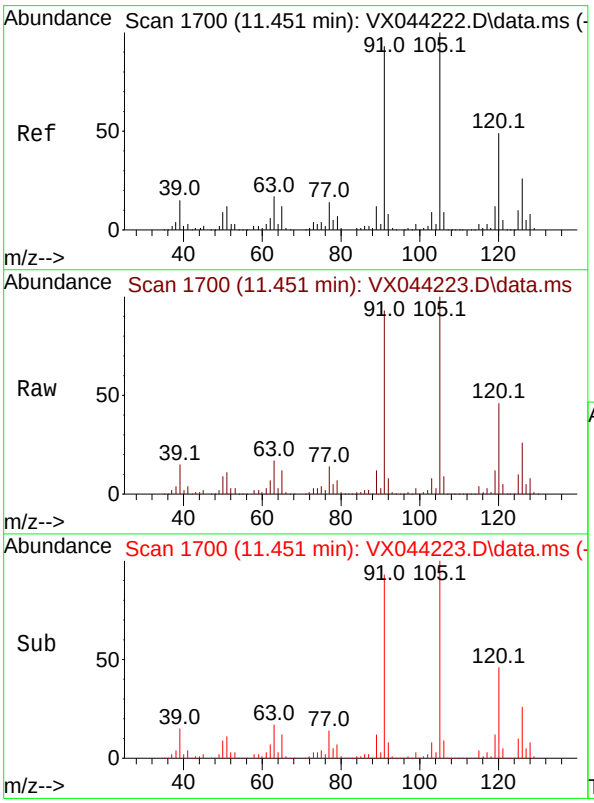
#81
trans-1,4-Dichloro-2-butene
Concen: 97.165 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 78453

Ion	Ratio	Lower	Upper
75	100		
53	107.9	93.6	140.4
89	47.8	37.3	55.9

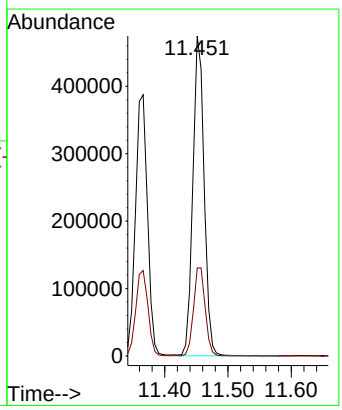


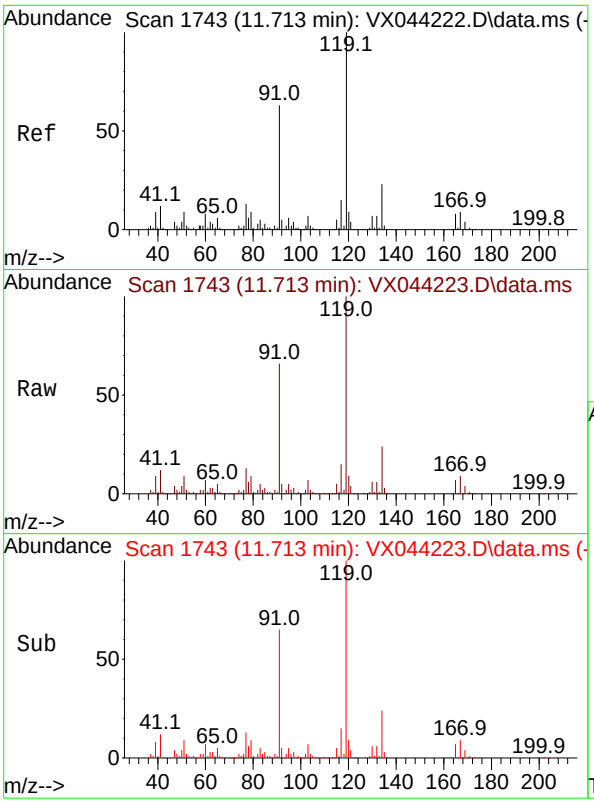


#82
4-Chlorotoluene
Concen: 99.384 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 91 Resp: 588197

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.5	43.5



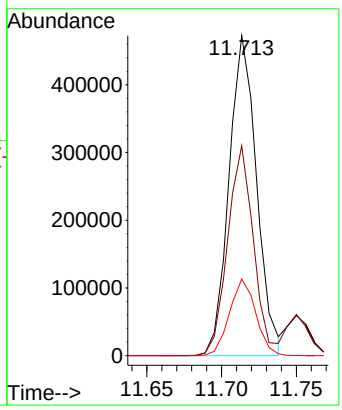


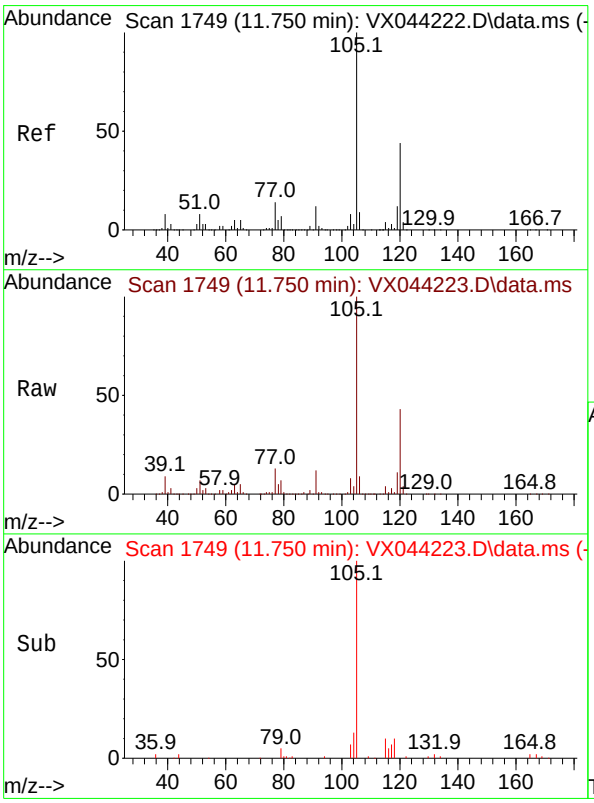
#83
tert-Butylbenzene
Concen: 99.013 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 606738

Ion	Ratio	Lower	Upper
119	100		
91	61.5	30.9	92.5
134	22.8	11.5	34.4

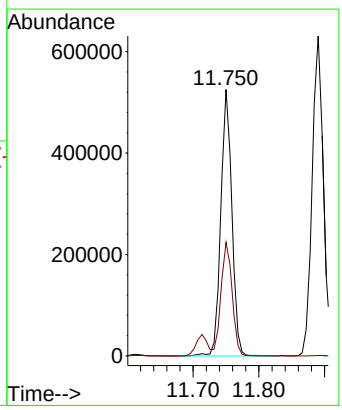


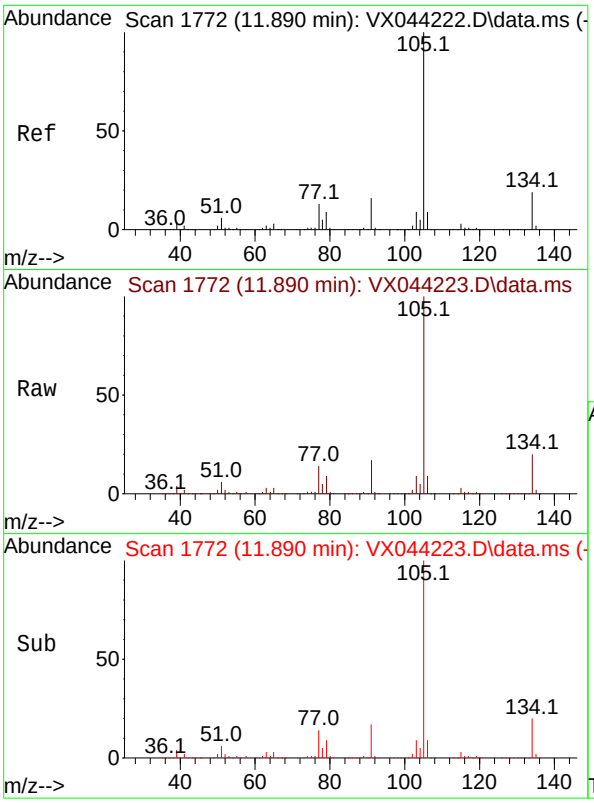


#84
1,2,4-Trimethylbenzene
Concen: 100.994 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:105 Resp: 614999

Ion	Ratio	Lower	Upper
105	100		
120	43.3	21.7	65.1



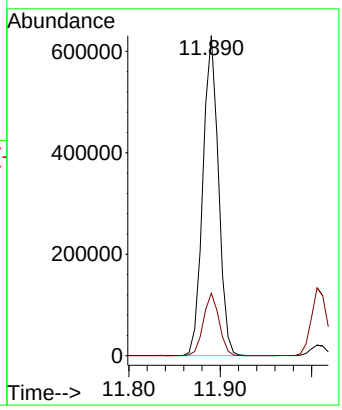


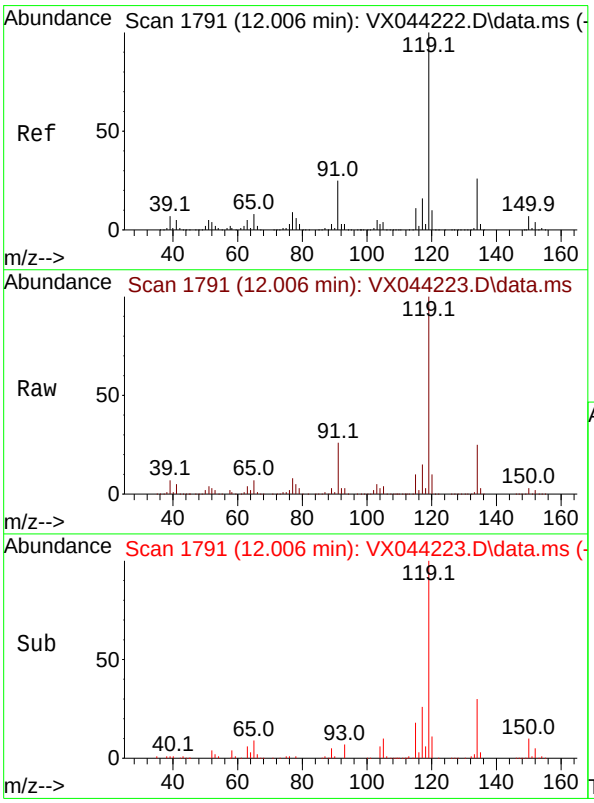
#85
sec-Butylbenzene
Concen: 99.889 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 743098

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.4

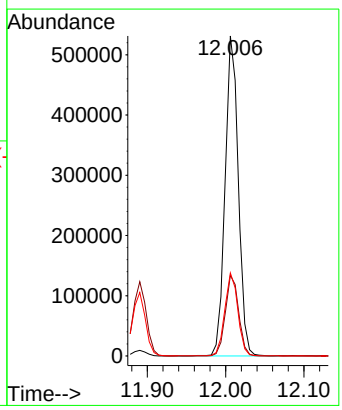


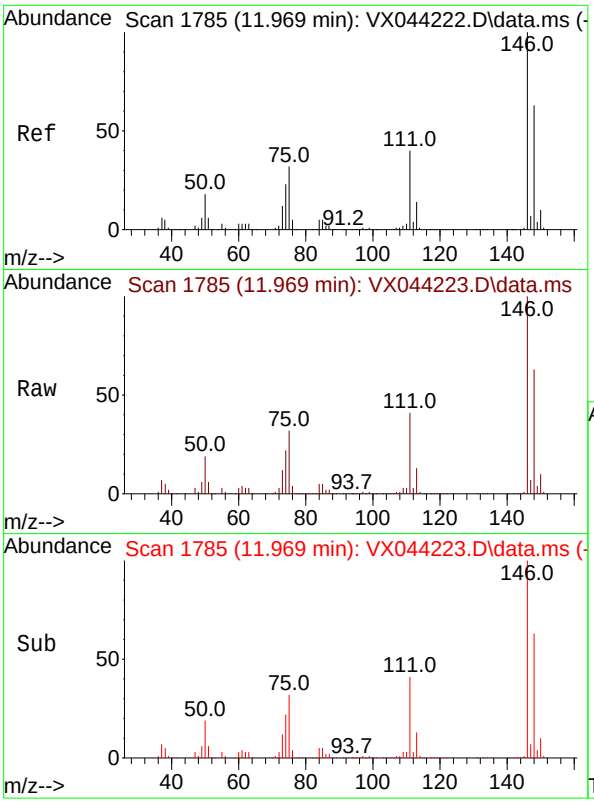


#86
p-Isopropyltoluene
Concen: 100.847 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:119 Resp: 624416

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.8	38.4
91	25.6	13.0	39.0



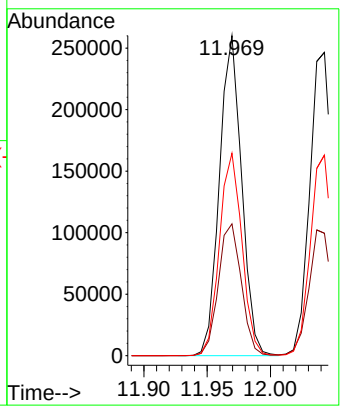


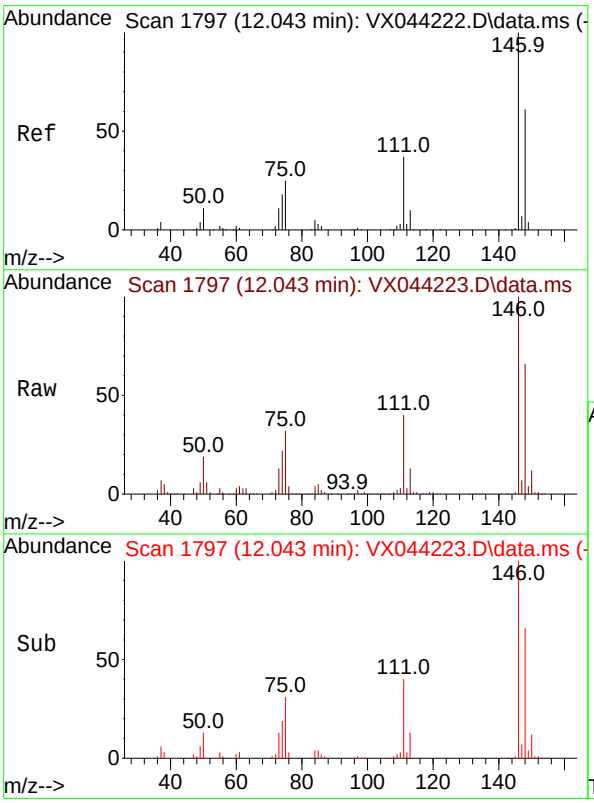
#87
1,3-Dichlorobenzene
Concen: 100.210 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 317377

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.4	64.2
148	64.1	31.7	95.1

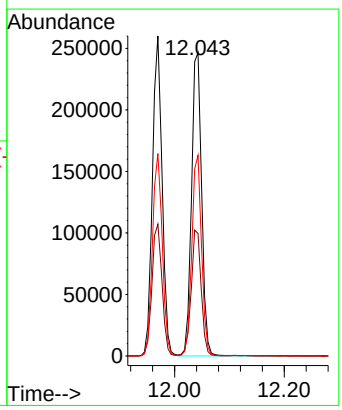


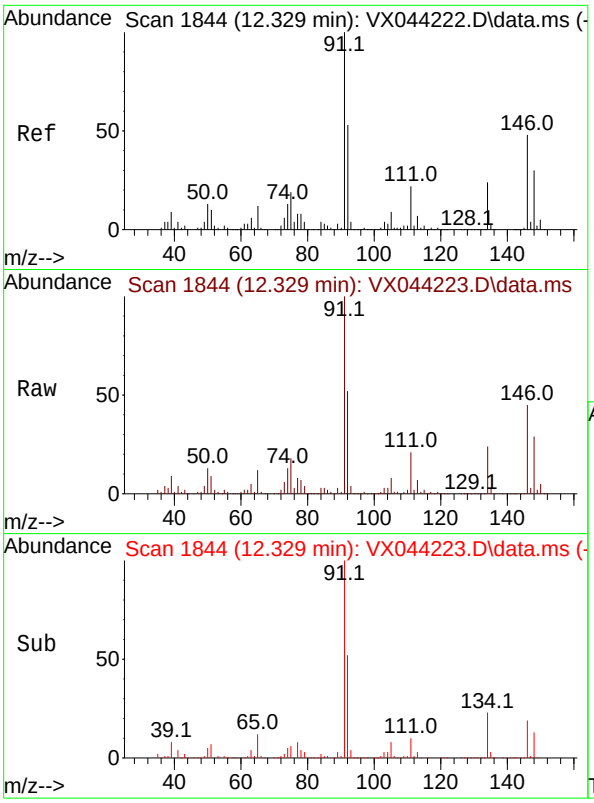


#88
1,4-Dichlorobenzene
Concen: 97.271 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:146 Resp: 316688

Ion	Ratio	Lower	Upper
146	100		
111	41.0	21.0	63.0
148	63.7	32.3	96.8



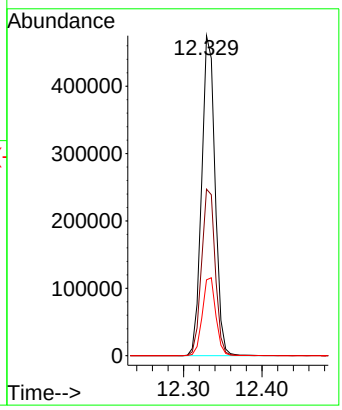


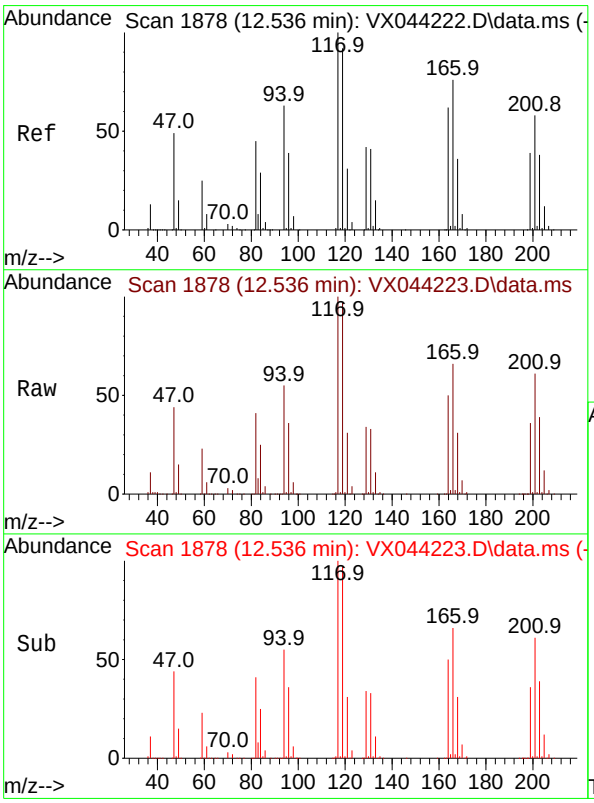
#89
n-Butylbenzene
Concen: 108.385 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 564303

Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.6	79.7
134	24.5	12.6	37.8

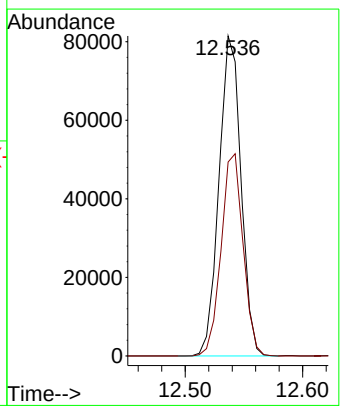


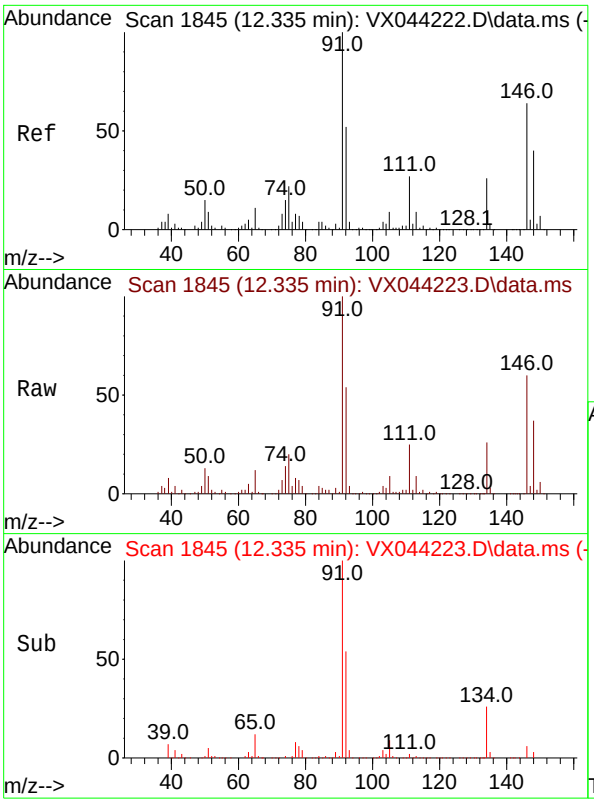


#90
Hexachloroethane
Concen: 117.218 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:117 Resp: 105946

Ion	Ratio	Lower	Upper
117	100		
201	63.2	31.4	94.2



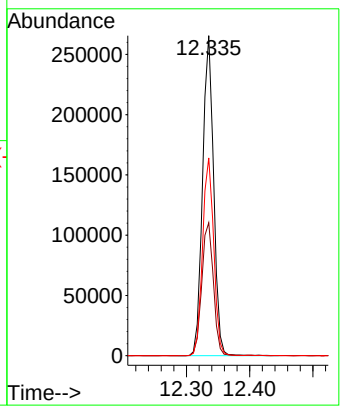


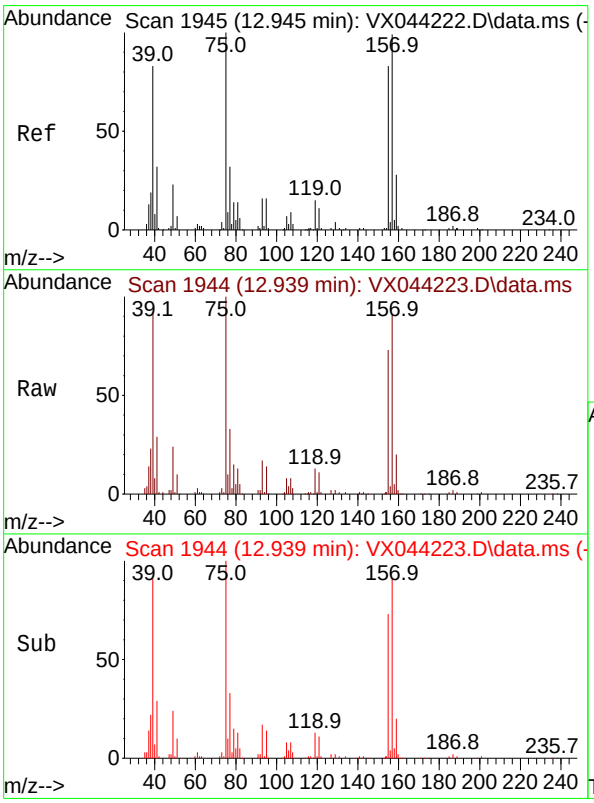
#91
1,2-Dichlorobenzene
Concen: 98.232 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 323040

Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.4	64.3
148	62.6	31.6	95.0

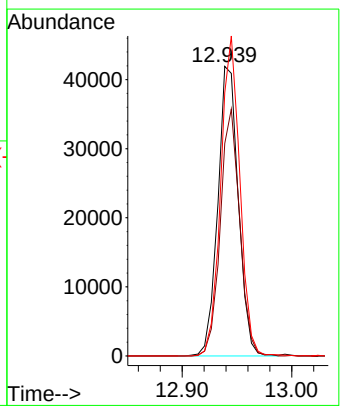


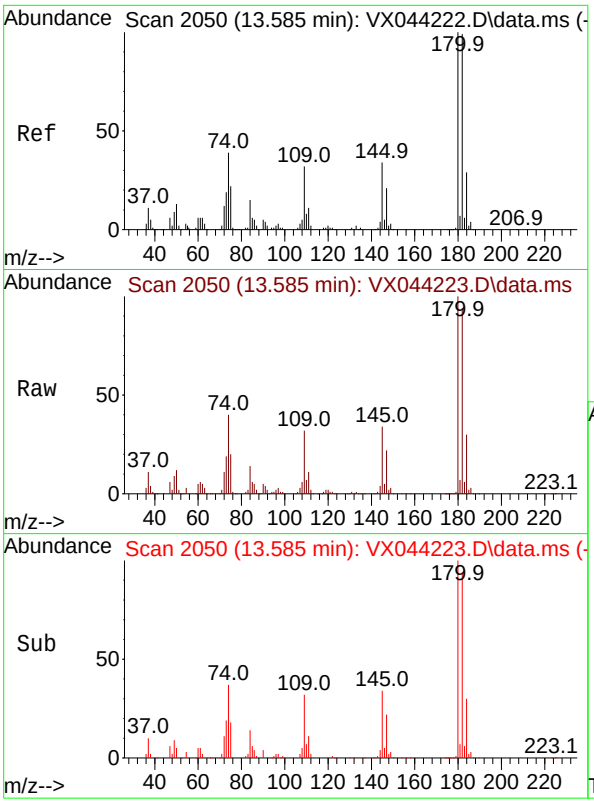


#92
1,2-Dibromo-3-Chloropropane
Concen: 108.279 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 54588

Ion	Ratio	Lower	Upper
75	100		
155	80.6	38.1	114.3
157	102.8	47.2	141.6



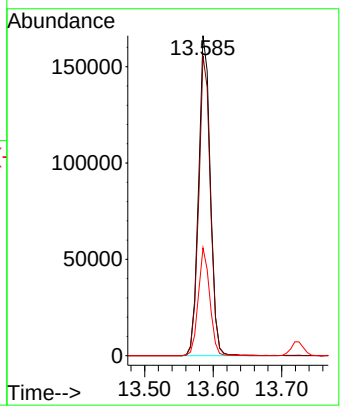


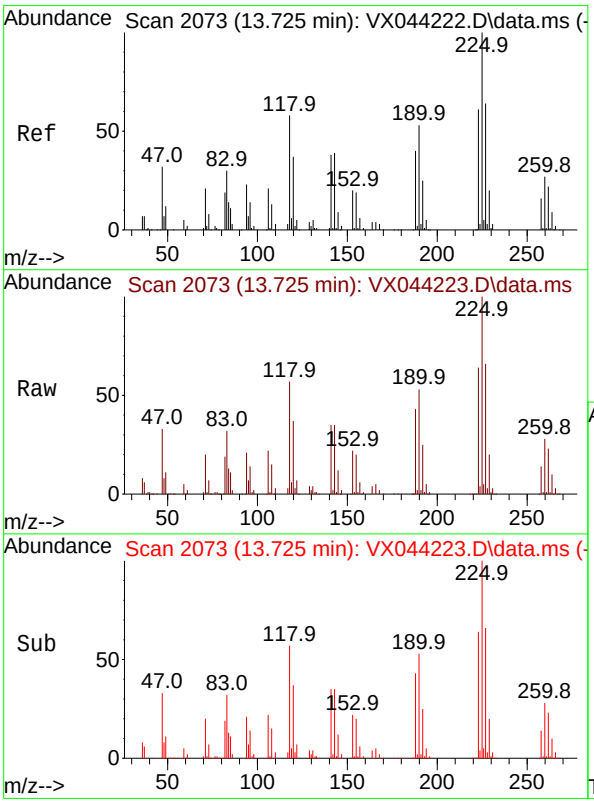
#93
1,2,4-Trichlorobenzene
Concen: 109.766 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 197899

Ion	Ratio	Lower	Upper
180	100		
182	93.5	48.0	144.2
145	32.9	16.6	49.7

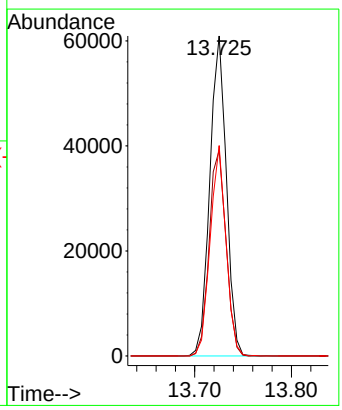


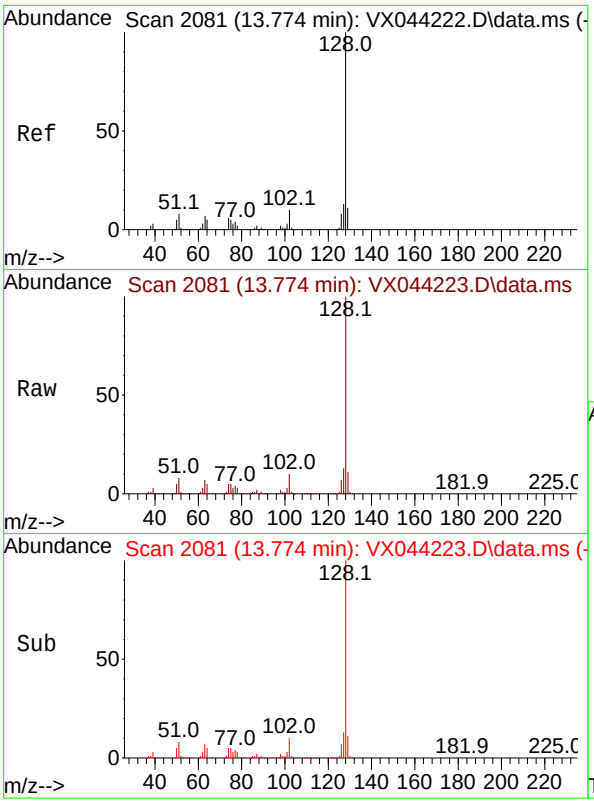


#94
Hexachlorobutadiene
Concen: 99.908 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:225 Resp: 72453

Ion	Ratio	Lower	Upper
225	100		
223	65.5	30.8	92.4
227	62.9	32.1	96.3



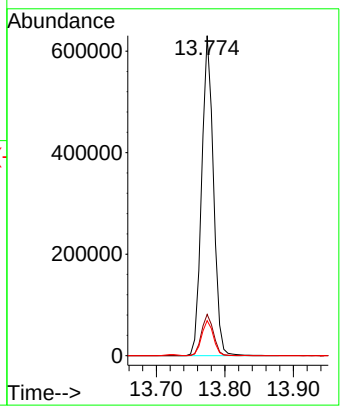


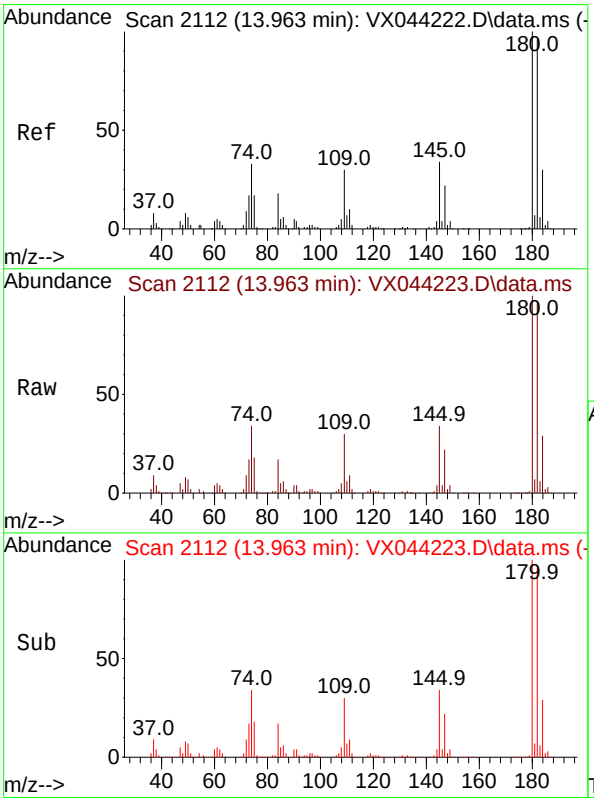
#95
Naphthalene
Concen: 107.308 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 755181

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.9	9.0	13.4

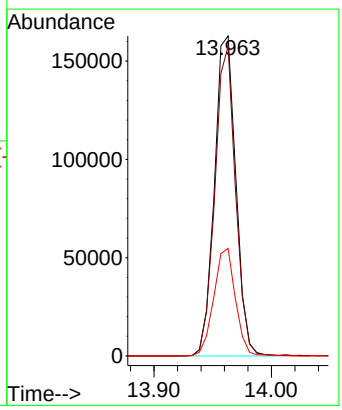




#96
1,2,3-Trichlorobenzene
Concen: 107.754 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:180 Resp: 206053

Ion	Ratio	Lower	Upper
180	100		
182	93.8	48.0	144.0
145	34.1	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	117957	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	218610	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	190013	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	90898	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	314272	151.956	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 303.920%#			
35) Dibromofluoromethane	5.385	113	231937	153.188	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 306.380%#			
50) Toluene-d8	8.647	98	788876	154.438	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 308.880%#			
62) 4-Bromofluorobenzene	11.079	95	279706	156.709	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 313.420%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	268739	147.342	ug/l	98
3) Chloromethane	1.294	50	261734	150.062	ug/l	97
4) Vinyl Chloride	1.374	62	260651	143.446	ug/l	97
5) Bromomethane	1.593	94	194089	150.562	ug/l	100
6) Chloroethane	1.660	64	150640	133.137	ug/l	98
7) Trichlorofluoromethane	1.861	101	500315	140.645	ug/l	99
8) Diethyl Ether	2.136	74	183845	151.407	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.312	101	219513	152.497	ug/l	99
10) Methyl Iodide	2.441	142	284184	149.795	ug/l	99
11) Tert butyl alcohol	3.014	59	266830	916.880	ug/l	98
12) 1,1-Dichloroethene	2.306	96	211016	159.600	ug/l	96
13) Acrolein	2.239	56	341487	809.350	ug/l	100
14) Allyl chloride	2.654	41	346773	157.465	ug/l	99
15) Acrylonitrile	3.068	53	649783	804.774	ug/l	99
16) Acetone	2.392	43	658120	780.537	ug/l	98
17) Carbon Disulfide	2.495	76	481926	191.754	ug/l	99
18) Methyl Acetate	2.709	43	336516	154.792	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	806360	156.286	ug/l	98
20) Methylene Chloride	2.782	84	236412	149.282	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	221622	157.719	ug/l	99
22) Diisopropyl ether	3.763	45	751292	151.500	ug/l	98
23) Vinyl Acetate	3.727	43	3464902	859.417	ug/l	99
24) 1,1-Dichloroethane	3.605	63	431006	155.921	ug/l	100
25) 2-Butanone	4.568	43	957709	798.973	ug/l	99
26) 2,2-Dichloropropane	4.465	77	367781	163.773	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	269708	151.131	ug/l	99
28) Bromochloromethane	4.897	49	200978	148.269	ug/l	100
29) Tetrahydrofuran	5.013	42	602095	782.561	ug/l	99
30) Chloroform	5.092	83	463606	149.274	ug/l	99
31) Cyclohexane	5.458	56	332026	148.745	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	415253	161.073	ug/l	99
36) 1,1-Dichloropropene	5.684	75	290913	148.642	ug/l	99
37) Ethyl Acetate	4.721	43	376757	155.731	ug/l	99
38) Carbon Tetrachloride	5.672	117	346795	164.587	ug/l	98
39) Methylcyclohexane	7.373	83	368542	157.516	ug/l	99
40) Benzene	6.031	78	887413	149.340	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	199851	155.569	ug/l		99
42) 1,2-Dichloroethane	6.086	62	369874	151.105	ug/l		100
43) Isopropyl Acetate	6.342	43	617107	163.200	ug/l		99
44) Trichloroethene	7.123	130	224164	151.275	ug/l		100
45) 1,2-Dichloropropane	7.427	63	224224	147.697	ug/l		96
46) Dibromomethane	7.580	93	184590	156.728	ug/l		99
47) Bromodichloromethane	7.818	83	352904	173.496	ug/l		98
48) Methyl methacrylate	7.696	41	292890	159.567	ug/l		98
49) 1,4-Dioxane	7.665	88	111023	3539.235	ug/l	#	88
51) 4-Methyl-2-Pentanone	8.580	43	1907523	784.573	ug/l		99
52) Toluene	8.714	92	557102	149.294	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	366275	150.167	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	382226	172.581	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	222665	150.202	ug/l		98
56) Ethyl methacrylate	9.116	69	389165	166.289	ug/l		99
57) 1,3-Dichloropropane	9.305	76	387086	150.014	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.244	63	970949	822.575	ug/l		100
59) 2-Hexanone	9.433	43	1436300	816.161	ug/l		99
60) Dibromochloromethane	9.525	129	261253	150.105	ug/l		99
61) 1,2-Dibromoethane	9.610	107	242451	160.674	ug/l		97
64) Tetrachloroethene	9.269	164	186443	147.836	ug/l		98
65) Chlorobenzene	10.079	112	608404	149.428	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.165	131	218515	166.991	ug/l		100
67) Ethyl Benzene	10.195	91	1068736	151.917	ug/l		98
68) m/p-Xylenes	10.299	106	806058	312.254	ug/l		98
69) o-Xylene	10.640	106	397084	152.030	ug/l		98
70) Styrene	10.652	104	670887	160.228	ug/l		98
71) Bromoform	10.799	173	169450	150.034	ug/l	#	99
73) Isopropylbenzene	10.963	105	1021749	146.832	ug/l		99
74) N-amyl acetate	10.841	43	536496	166.823	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	352591	145.883	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	400724	194.277	ug/l		85
77) Bromobenzene	11.201	156	243975	144.584	ug/l		100
78) n-propylbenzene	11.305	91	1166255	151.637	ug/l		98
79) 2-Chlorotoluene	11.366	91	700673	140.866	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	853042	147.824	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	117263	152.670	ug/l		93
82) 4-Chlorotoluene	11.451	91	825278	149.831	ug/l		99
83) tert-Butylbenzene	11.713	119	846864	148.495	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	846771	149.414	ug/l		100
85) sec-Butylbenzene	11.890	105	1034419	149.409	ug/l		99
86) p-Isopropyltoluene	12.006	119	875562	151.944	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	443826	150.575	ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	442556	146.058	ug/l		99
89) n-Butylbenzene	12.329	91	808399	166.836	ug/l		100
90) Hexachloroethane	12.536	117	154726	183.942	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	447931	146.357	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	83565	178.106	ug/l		93
93) 1,2,4-Trichlorobenzene	13.585	180	288519	171.952	ug/l		98
94) Hexachlorobutadiene	13.725	225	103961	154.036	ug/l		98
95) Naphthalene	13.774	128	1094997	167.187	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	293760	165.064	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

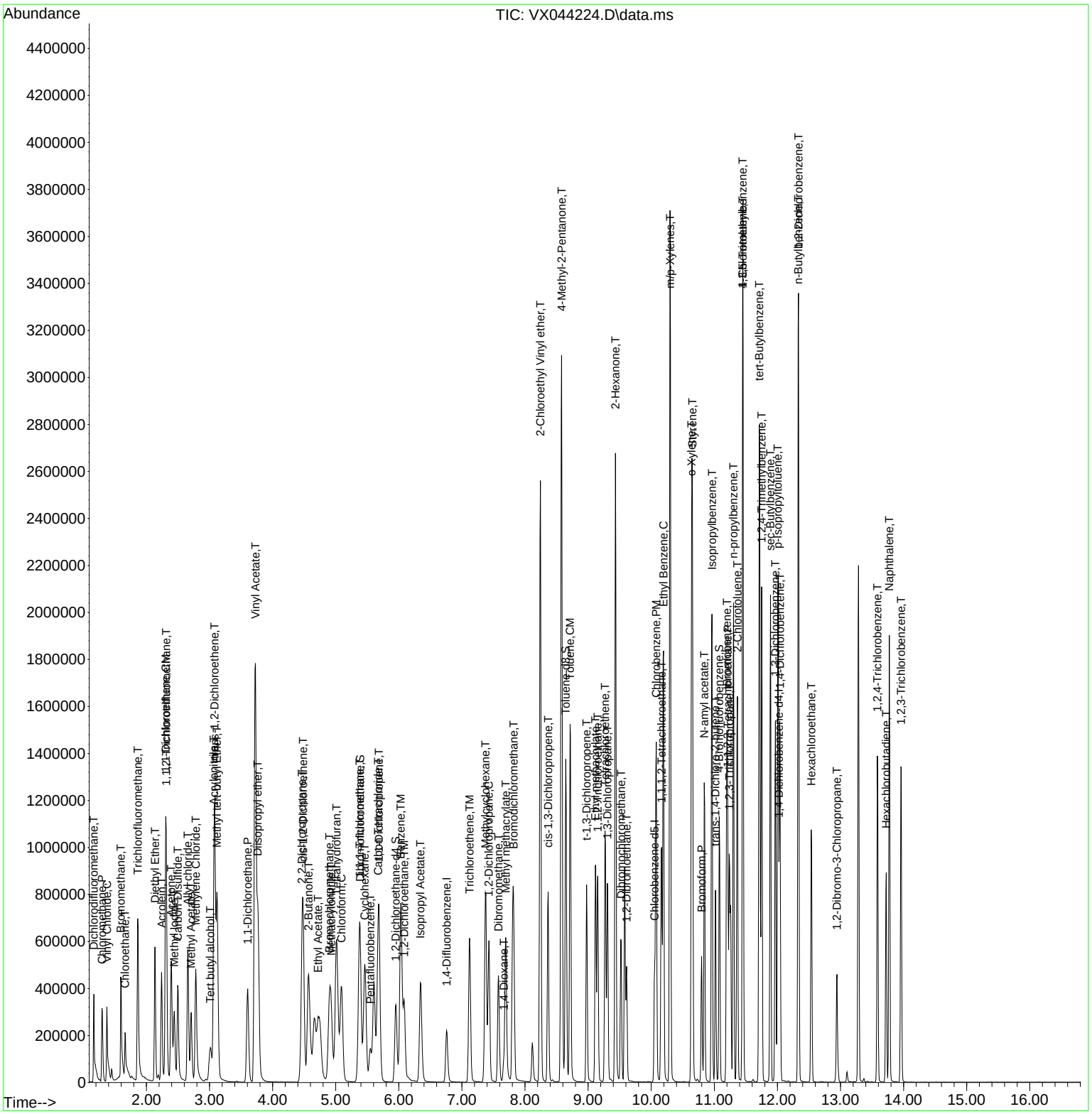
(#) = qualifier out of range (m) = manual integration (+) = signals summed

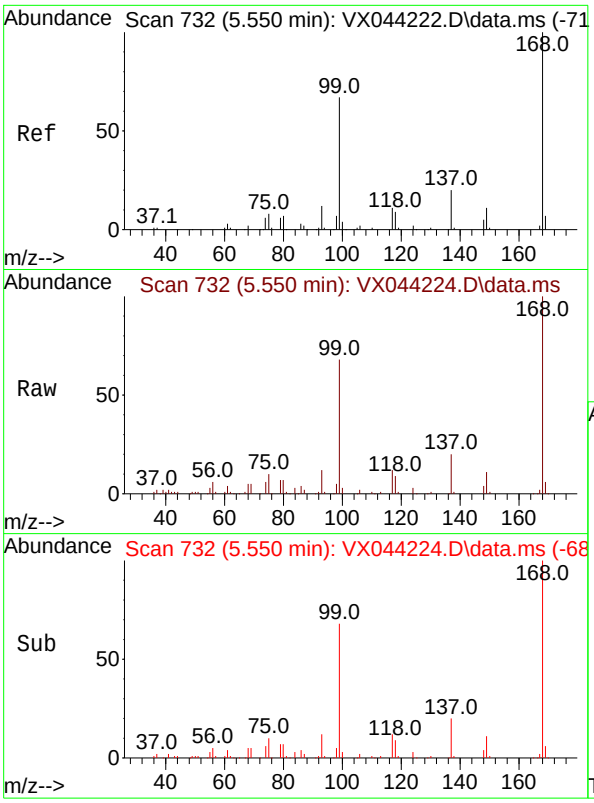
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration



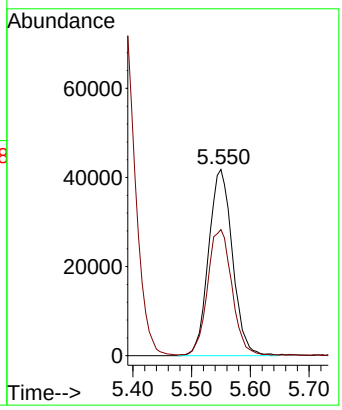


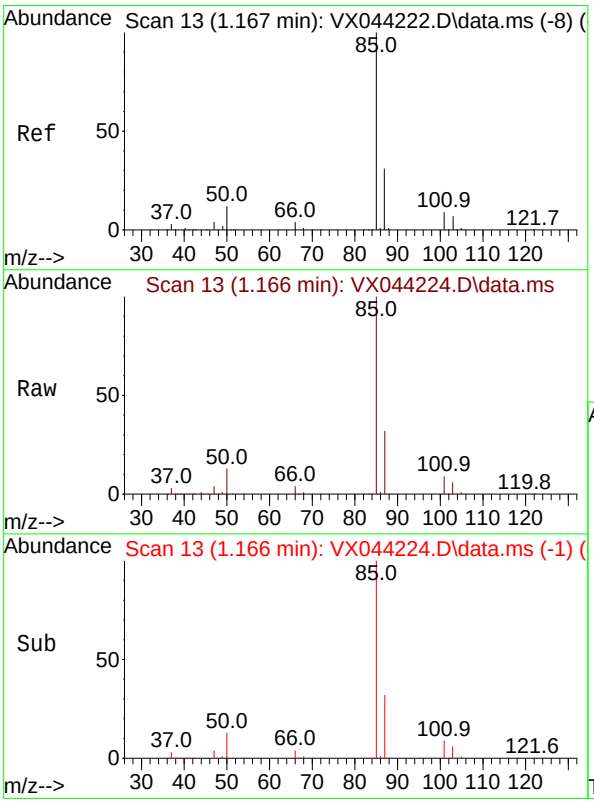
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 117957

Ion	Ratio	Lower	Upper
168	100		
99	67.2	53.4	80.0

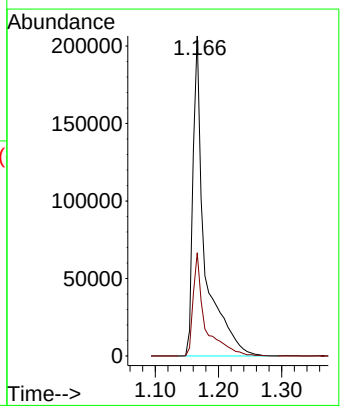


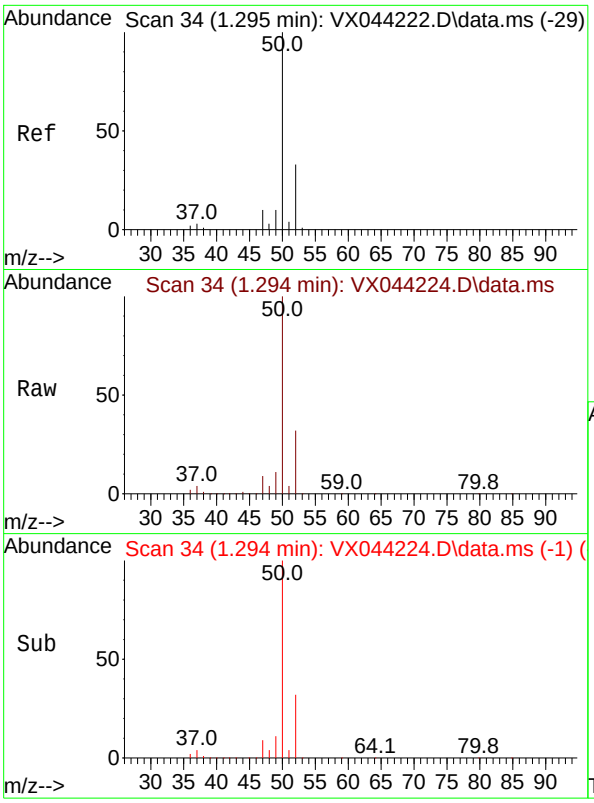


#2
Dichlorodifluoromethane
Concen: 147.342 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 85 Resp: 268739

Ion	Ratio	Lower	Upper
85	100		
87	32.2	15.4	46.4



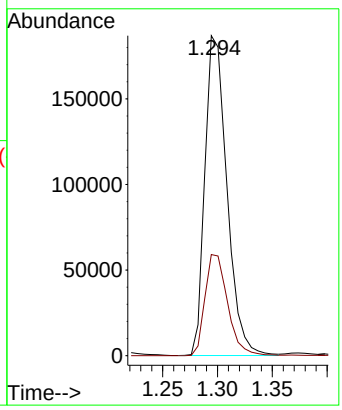


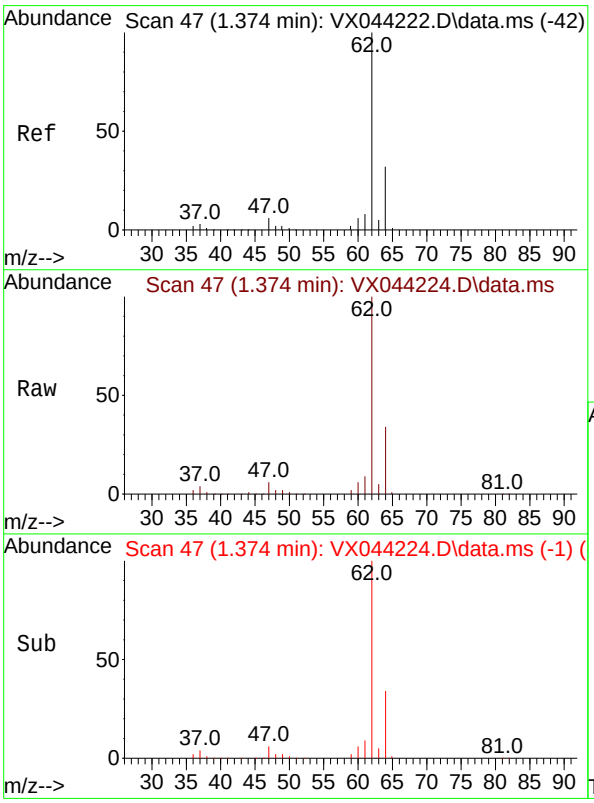
#3
Chloromethane
Concen: 150.062 ug/l
RT: 1.294 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 261734

Ion	Ratio	Lower	Upper
50	100		
52	31.6	26.5	39.7

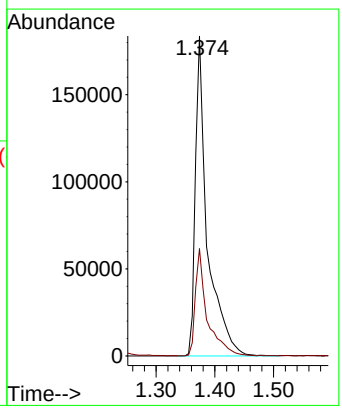


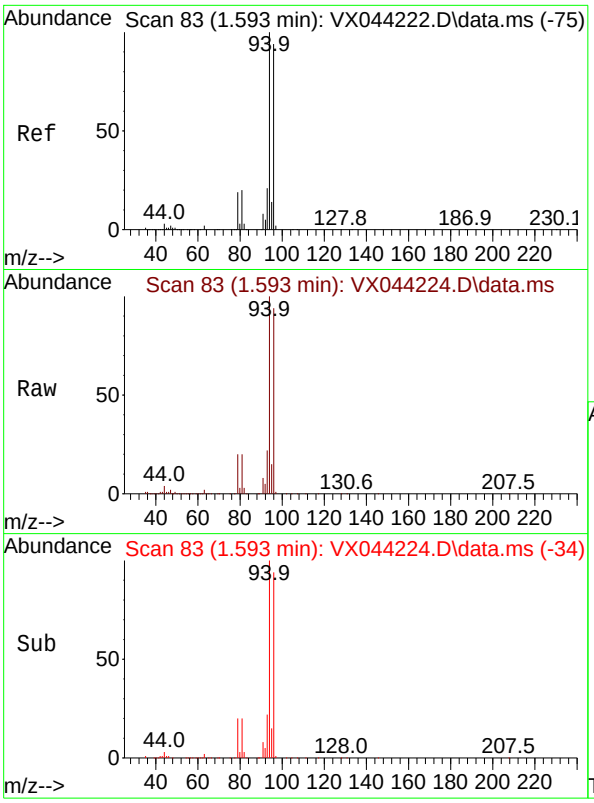


#4
Vinyl Chloride
Concen: 143.446 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 62 Resp: 260651

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.7	38.5



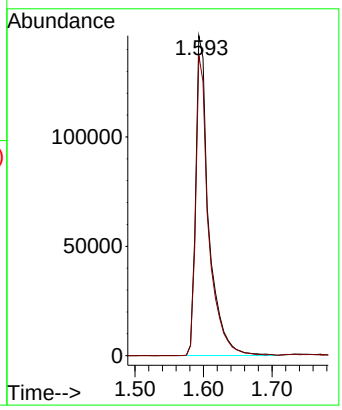


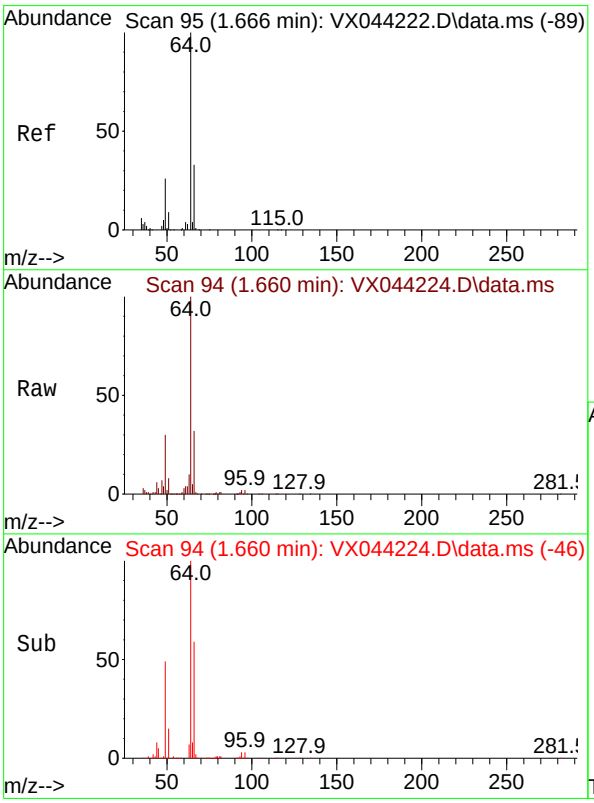
#5
Bromomethane
Concen: 150.562 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 194089

Ion	Ratio	Lower	Upper
94	100		
96	94.0	74.9	112.3

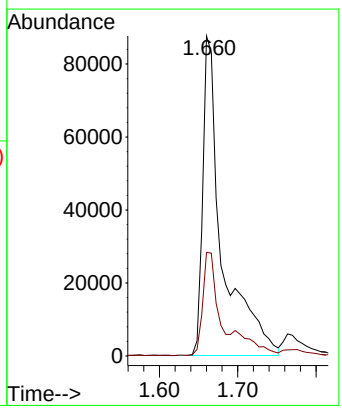


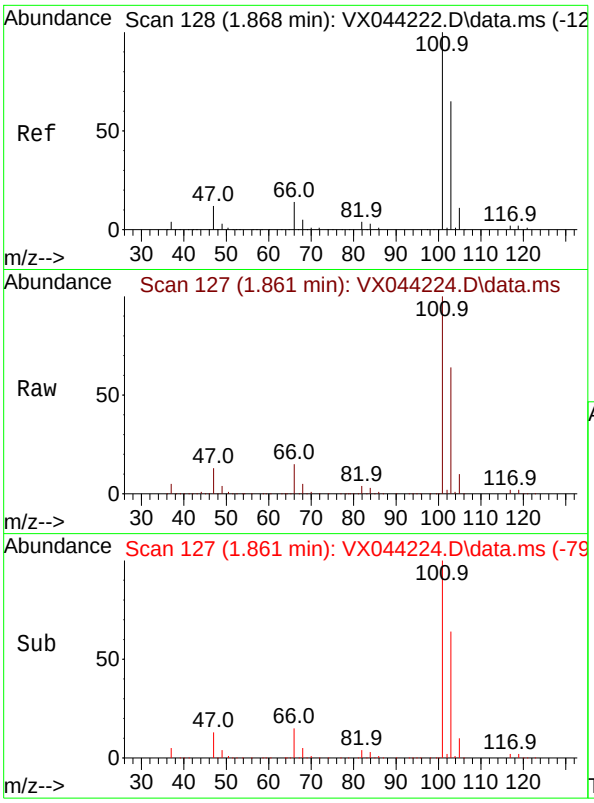


#6
Chloroethane
Concen: 133.137 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 64 Resp: 150640

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.6	39.8



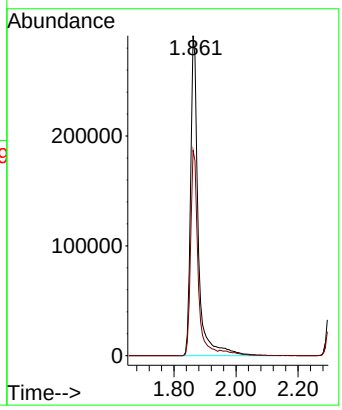


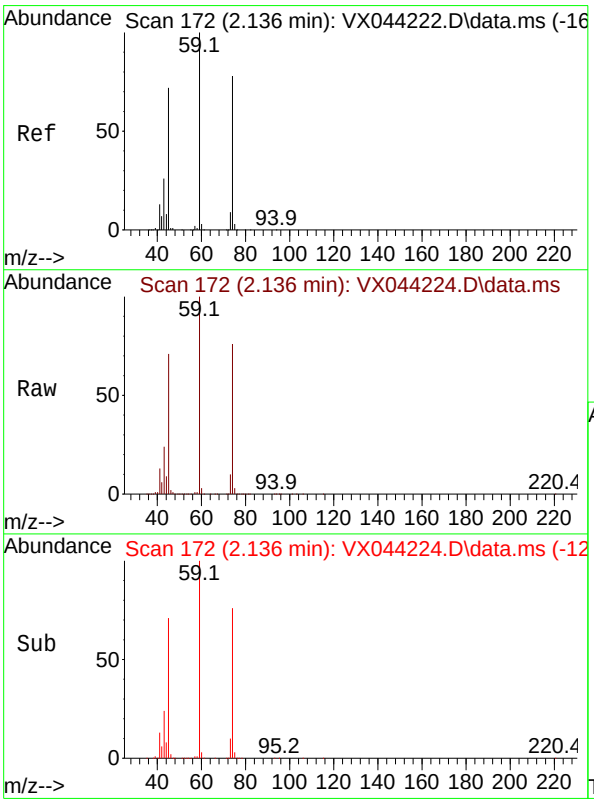
#7
Trichlorofluoromethane
Concen: 140.645 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 500315

Ion	Ratio	Lower	Upper
101	100		
103	64.2	51.8	77.8

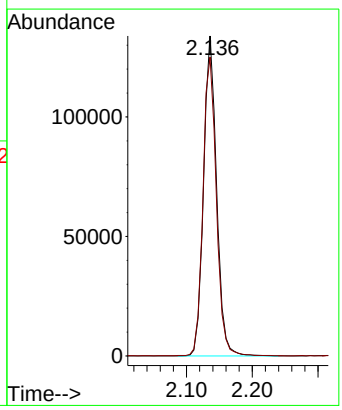


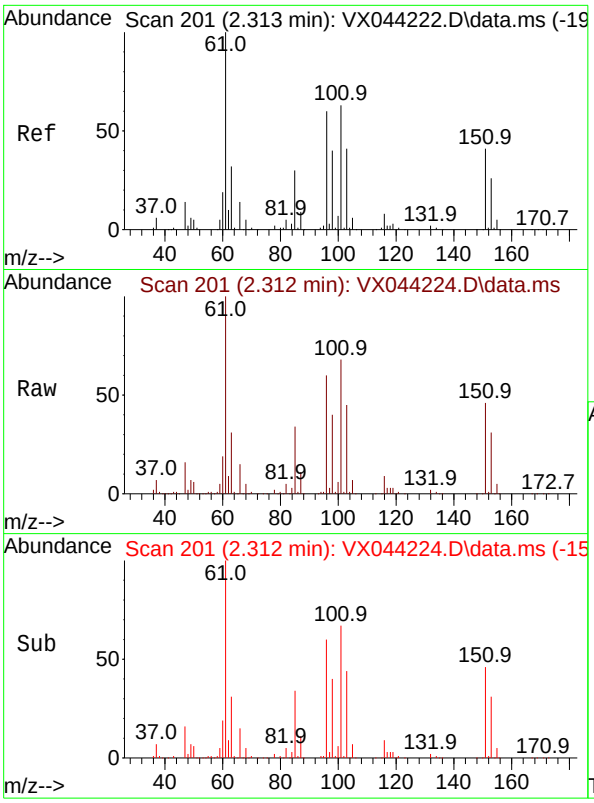


#8
Diethyl Ether
Concen: 151.407 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 74 Resp: 183845

Ion	Ratio	Lower	Upper
74	100		
45	96.6	48.4	145.0



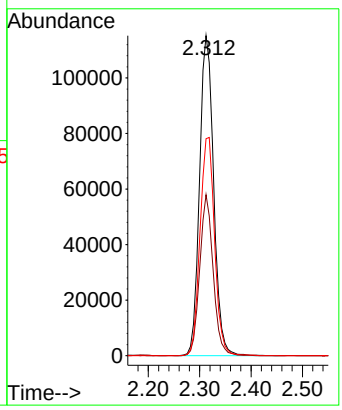


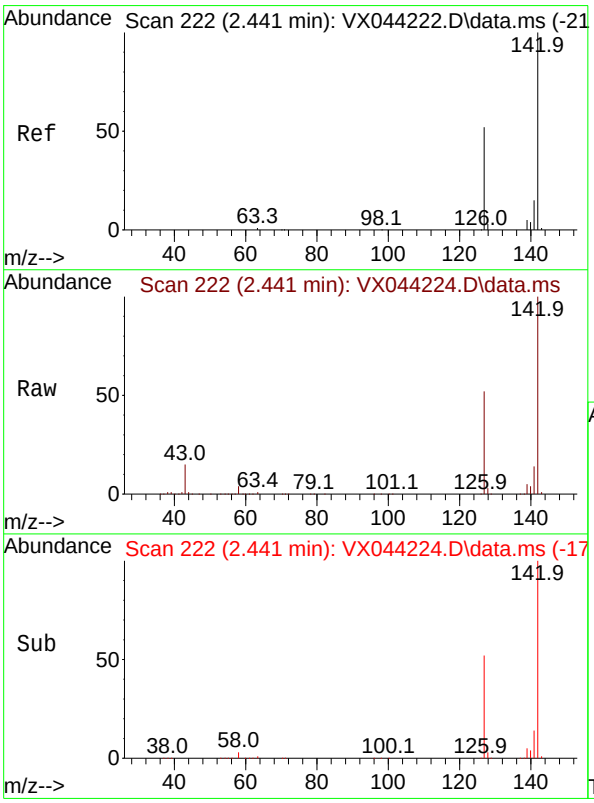
#9
1,1,2-Trichlorotrifluoroethane
Concen: 152.497 ug/l
RT: 2.312 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 219513

Ion	Ratio	Lower	Upper
101	100		
85	47.8	38.5	57.7
151	70.5	55.8	83.6

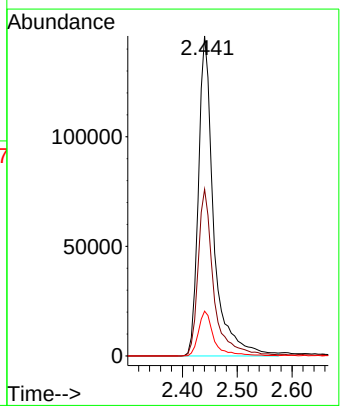


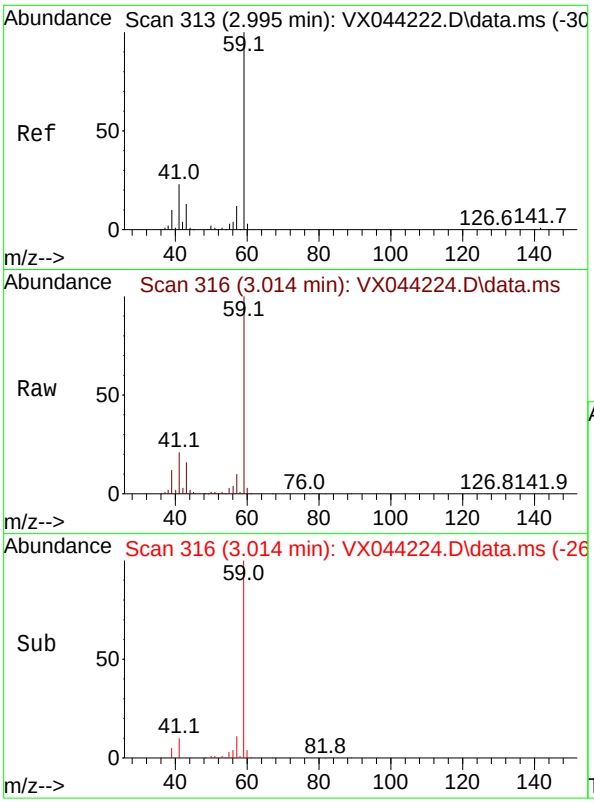


#10
Methyl Iodide
Concen: 149.795 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:142 Resp: 284184

Ion	Ratio	Lower	Upper
142	100		
127	52.8	41.8	62.8
141	14.2	11.5	17.3



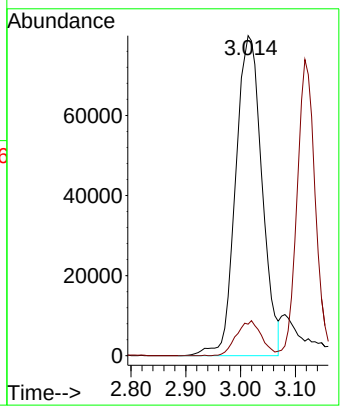


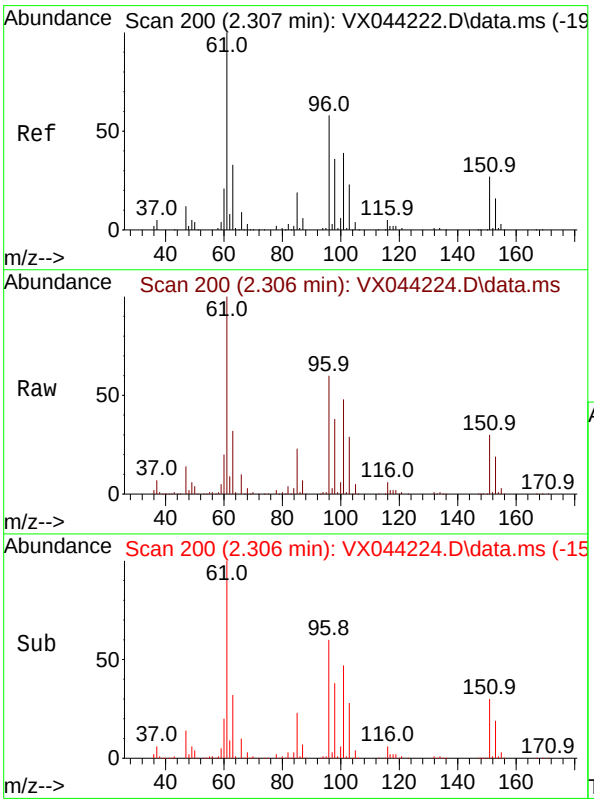
#11
Tert butyl alcohol
Concen: 916.880 ug/l
RT: 3.014 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 266830

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.8	13.2

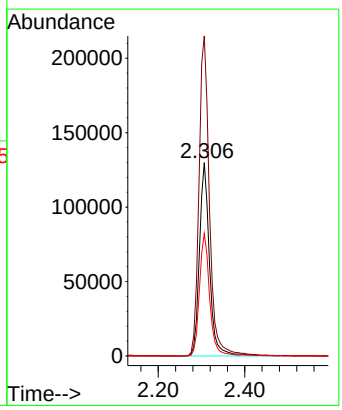


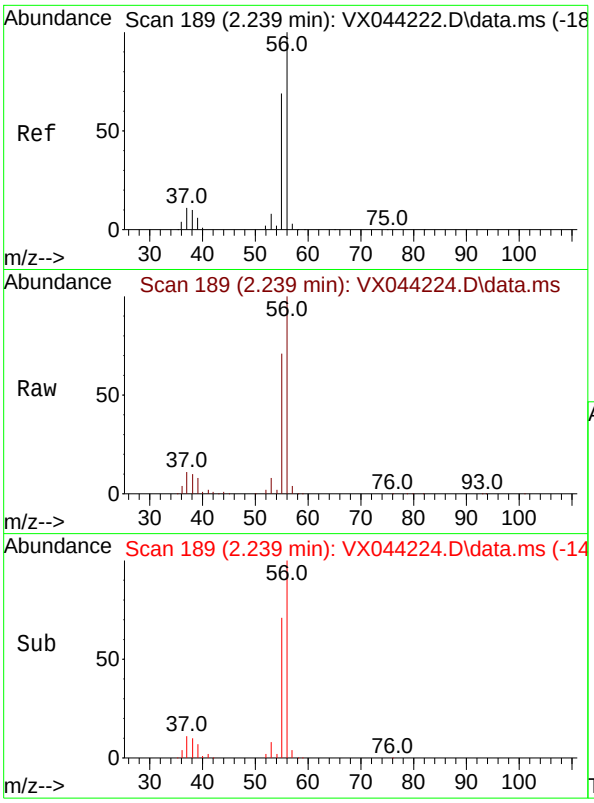


#12
1,1-Dichloroethene
Concen: 159.600 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 96 Resp: 211016

Ion	Ratio	Lower	Upper
96	100		
61	165.6	138.0	207.0
98	63.5	50.0	75.0



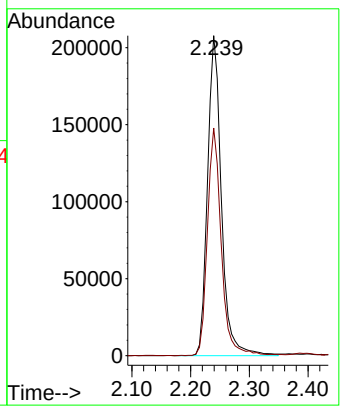


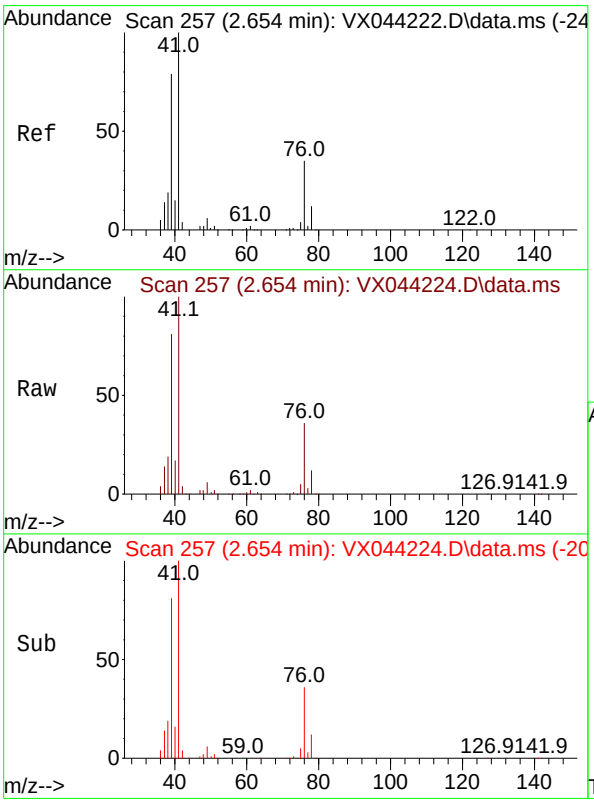
#13
Acrolein
Concen: 809.350 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 341487

Ion	Ratio	Lower	Upper
56	100		
55	70.8	56.6	84.8

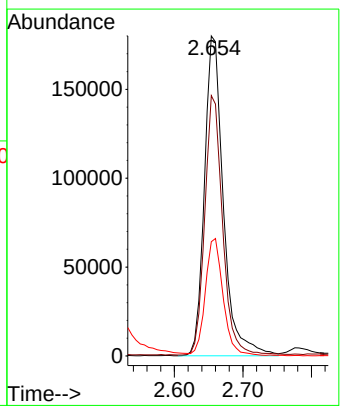


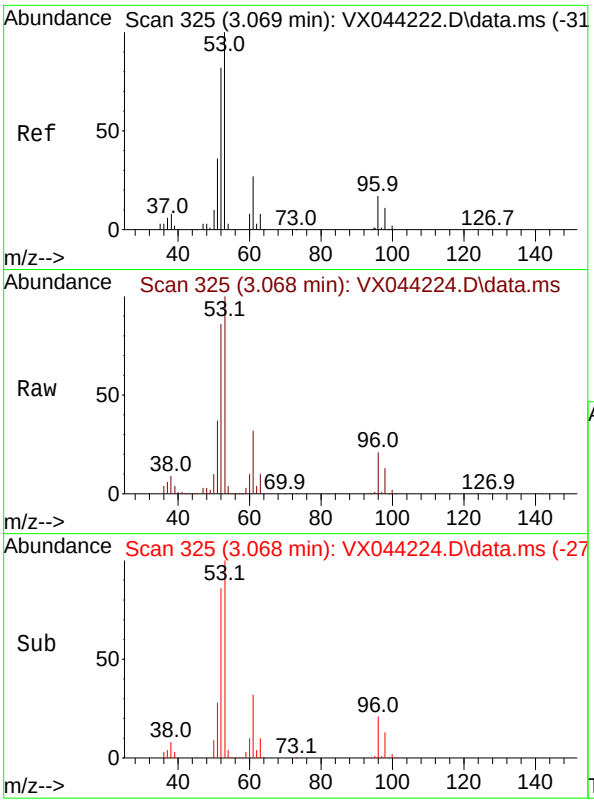


#14
Allyl chloride
Concen: 157.465 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 41 Resp: 346773

Ion	Ratio	Lower	Upper
41	100		
39	76.1	61.9	92.9
76	34.5	27.4	41.2



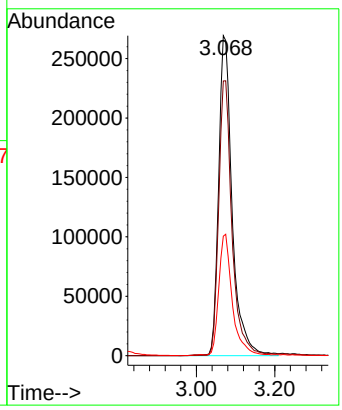


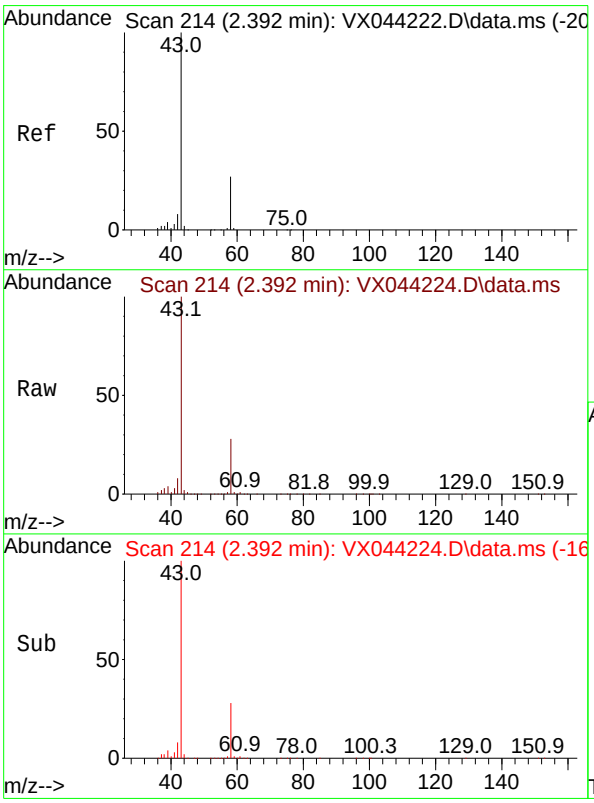
#15
Acrylonitrile
Concen: 804.774 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 649783

Ion	Ratio	Lower	Upper
53	100		
52	83.9	67.4	101.0
51	37.0	30.3	45.5

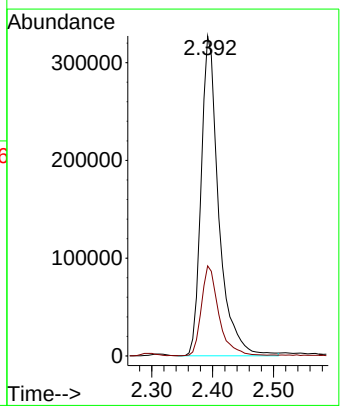


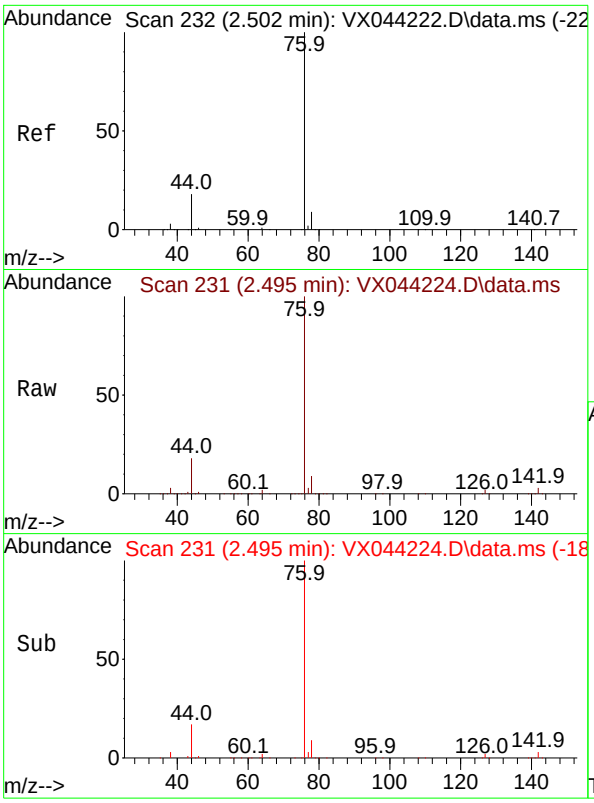


#16
Acetone
Concen: 780.537 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 658120

Ion	Ratio	Lower	Upper
43	100		
58	28.1	21.6	32.4



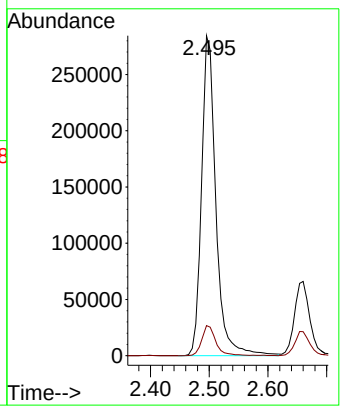


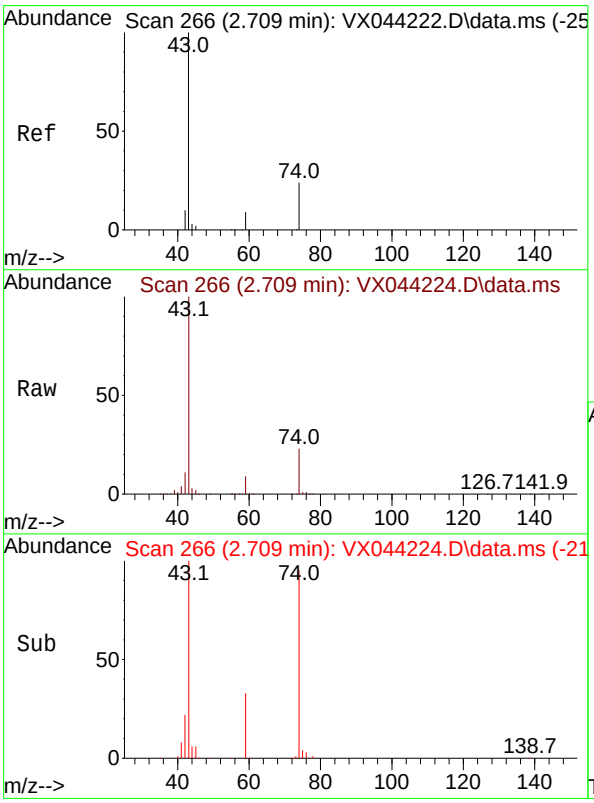
#17
Carbon Disulfide
Concen: 191.754 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 481926

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0

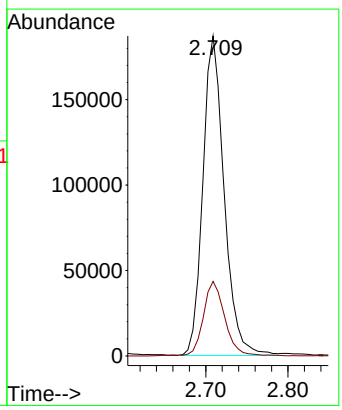


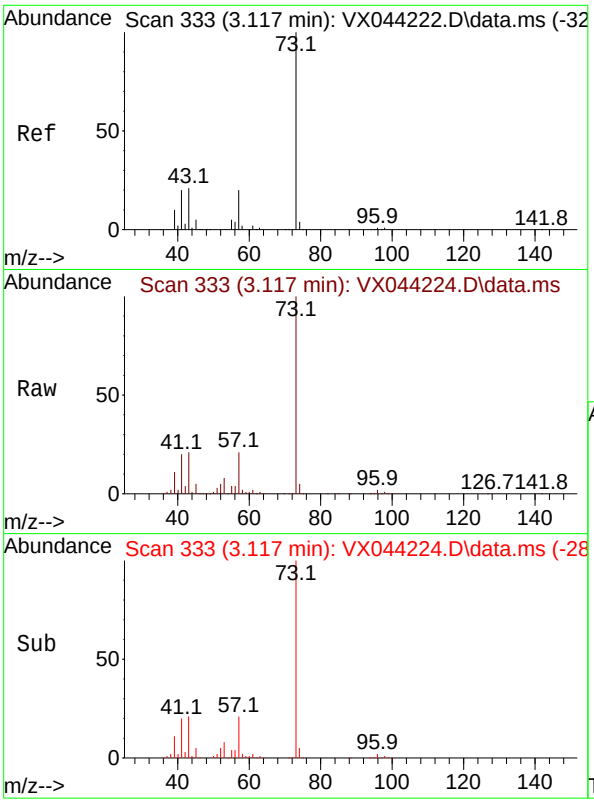


#18
Methyl Acetate
Concen: 154.792 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 336516

Ion	Ratio	Lower	Upper
43	100		
74	23.7	17.7	26.5



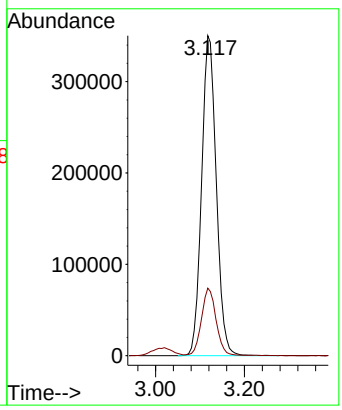


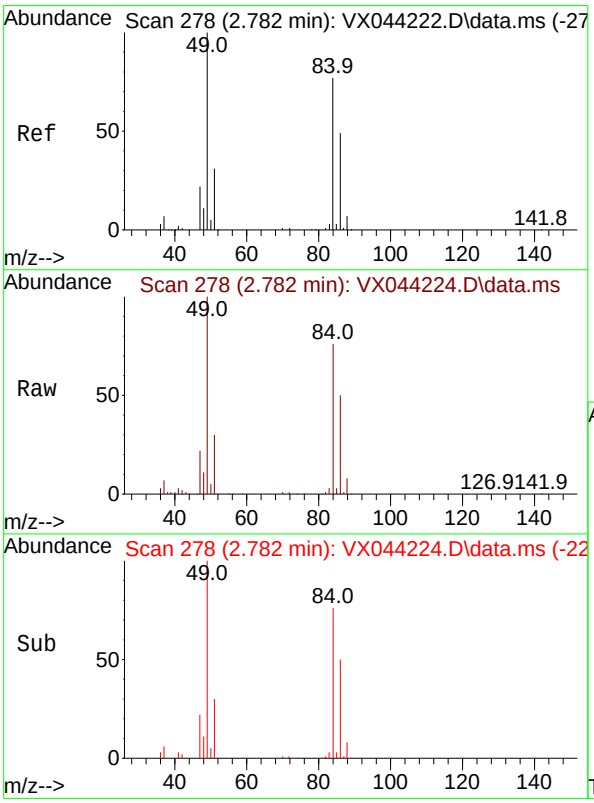
#19
Methyl tert-butyl Ether
Concen: 156.286 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 806360

Ion	Ratio	Lower	Upper
73	100		
57	21.1	16.2	24.4

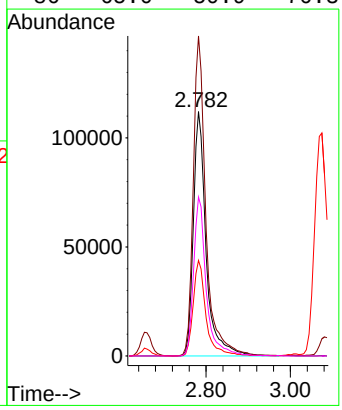


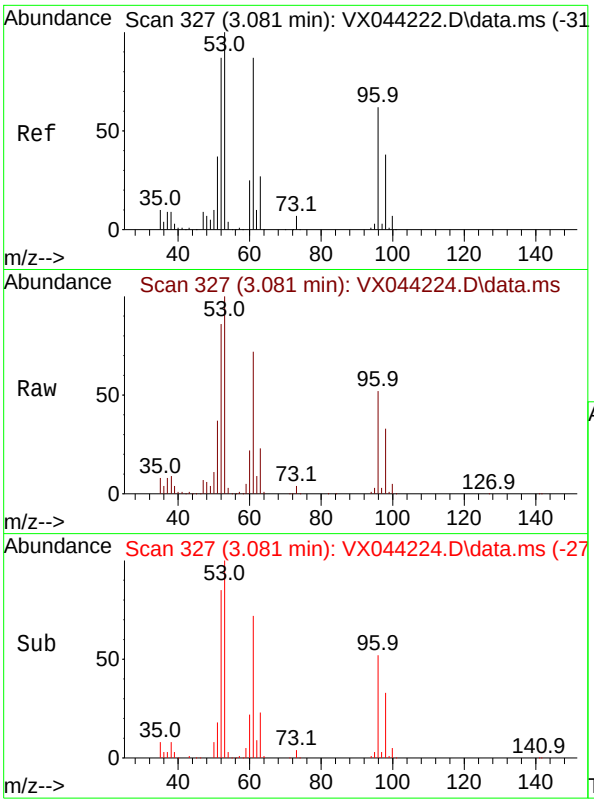


#20
Methylene Chloride
Concen: 149.282 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 84 Resp: 236412

Ion	Ratio	Lower	Upper
84	100		
49	130.9	104.2	156.4
51	39.1	32.2	48.4
86	65.0	50.9	76.3



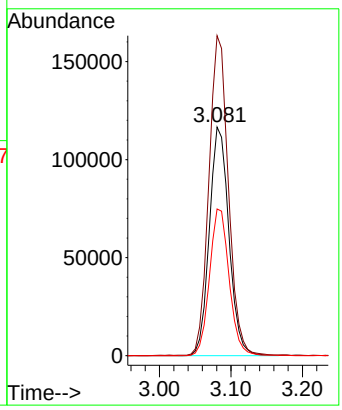


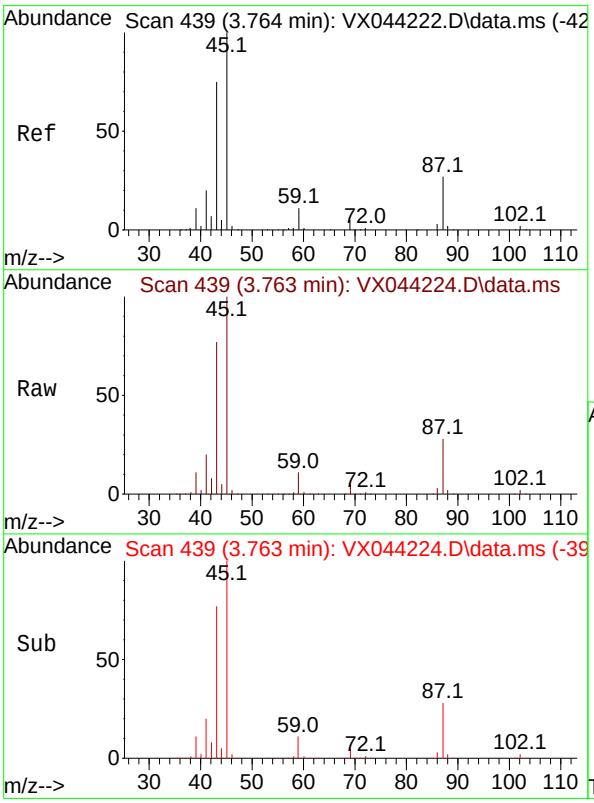
#21
trans-1,2-Dichloroethene
Concen: 157.719 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 221622

Ion	Ratio	Lower	Upper
96	100		
61	139.7	112.0	168.0
98	64.2	48.8	73.2

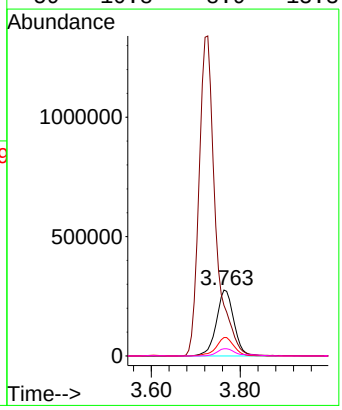


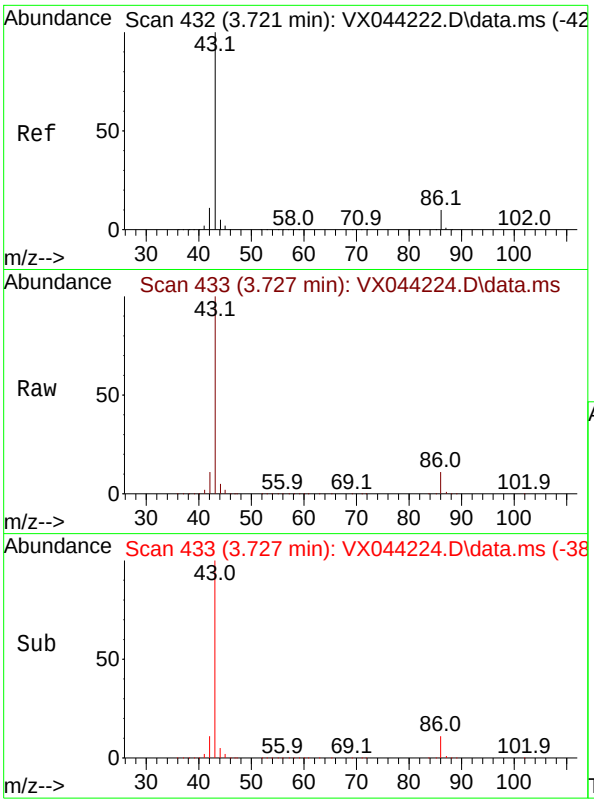


#22
Diisopropyl ether
Concen: 151.500 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 45 Resp: 751292

Ion	Ratio	Lower	Upper
45	100		
43	76.6	60.2	90.2
87	28.0	21.2	31.8
59	10.8	8.9	13.3



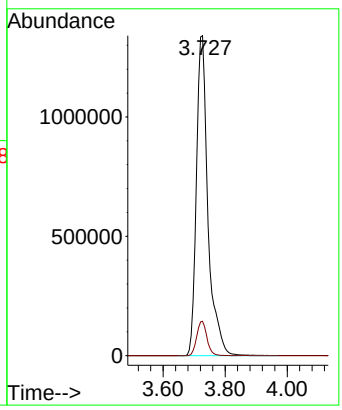


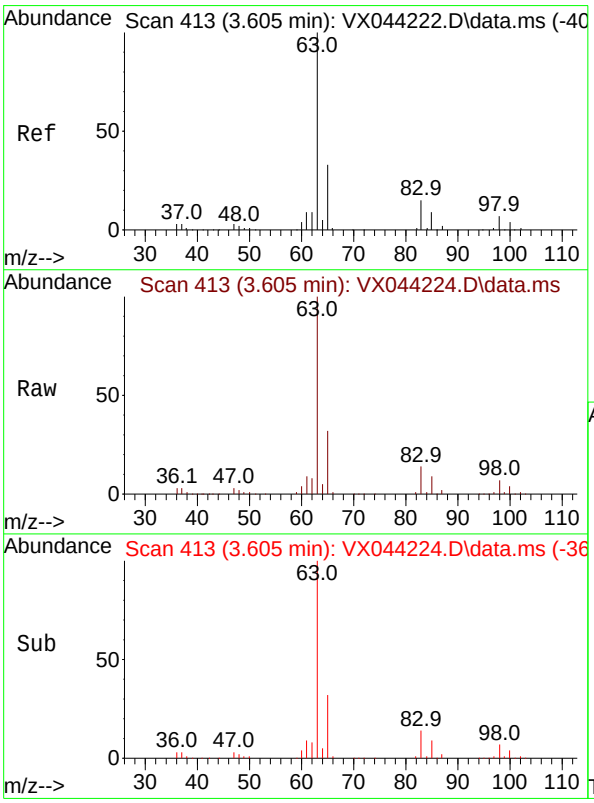
#23
Vinyl Acetate
Concen: 859.417 ug/l
RT: 3.727 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 3464902

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.2	12.2

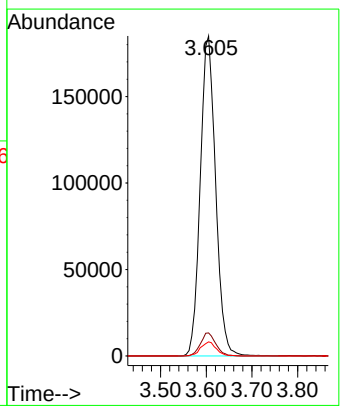


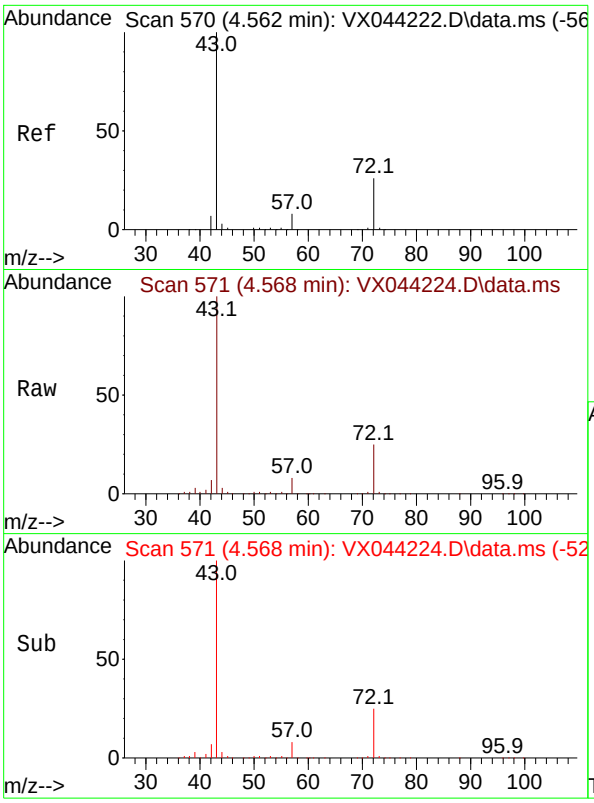


#24
1,1-Dichloroethane
Concen: 155.921 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 63 Resp: 431006

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	4.4	2.1	6.3



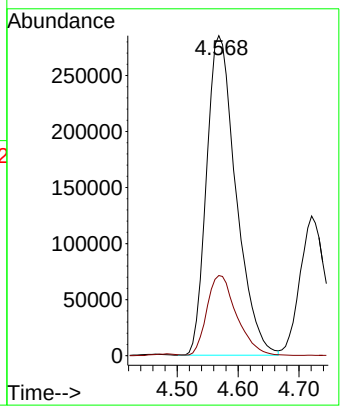


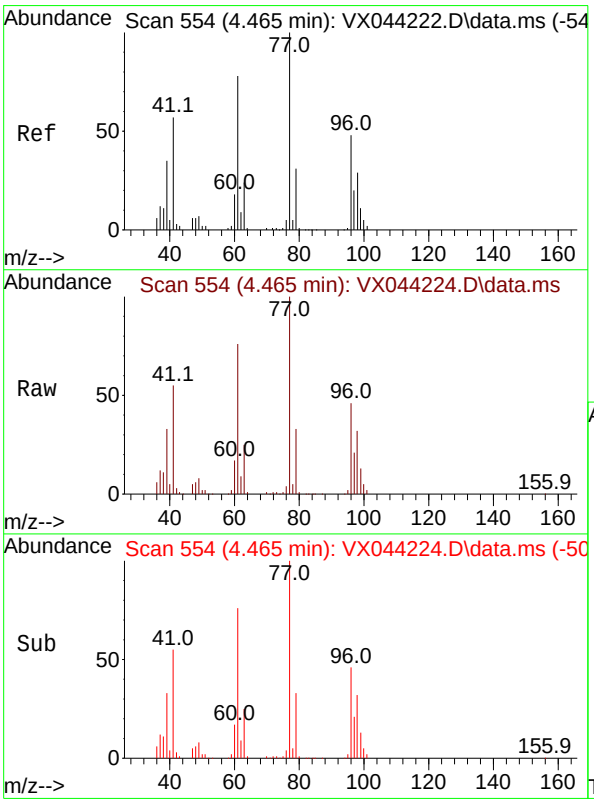
#25
2-Butanone
Concen: 798.973 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 957709

Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4

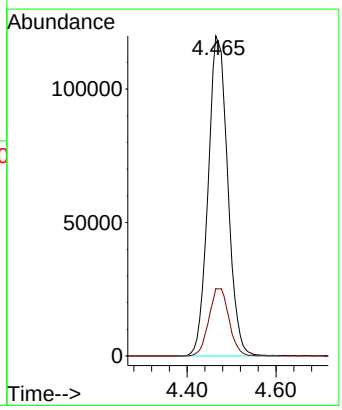


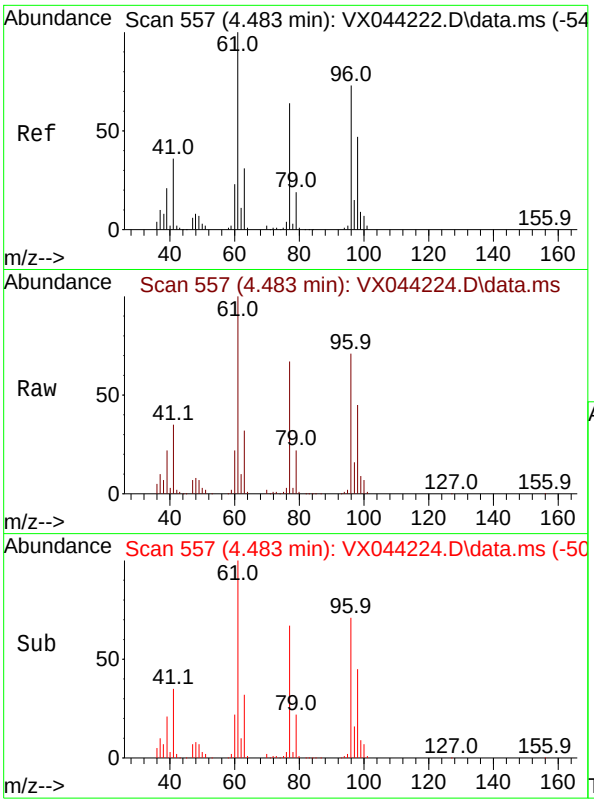


#26
2,2-Dichloropropane
Concen: 163.773 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 77 Resp: 367781

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.7	32.1



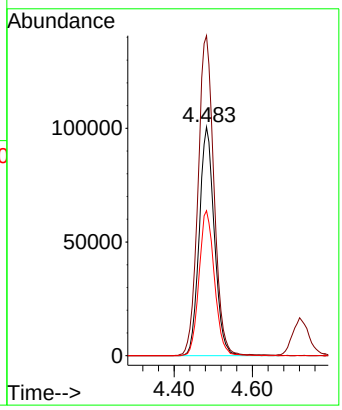


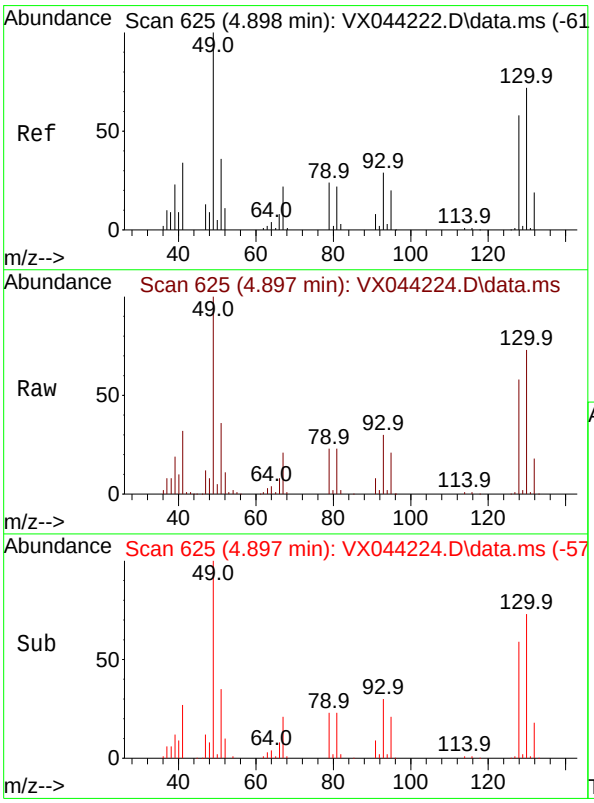
#27
cis-1,2-Dichloroethene
Concen: 151.131 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 269708

Ion	Ratio	Lower	Upper
96	100		
61	147.2	0.0	299.0
98	64.7	0.0	129.0

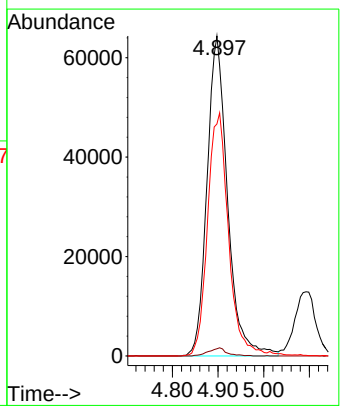


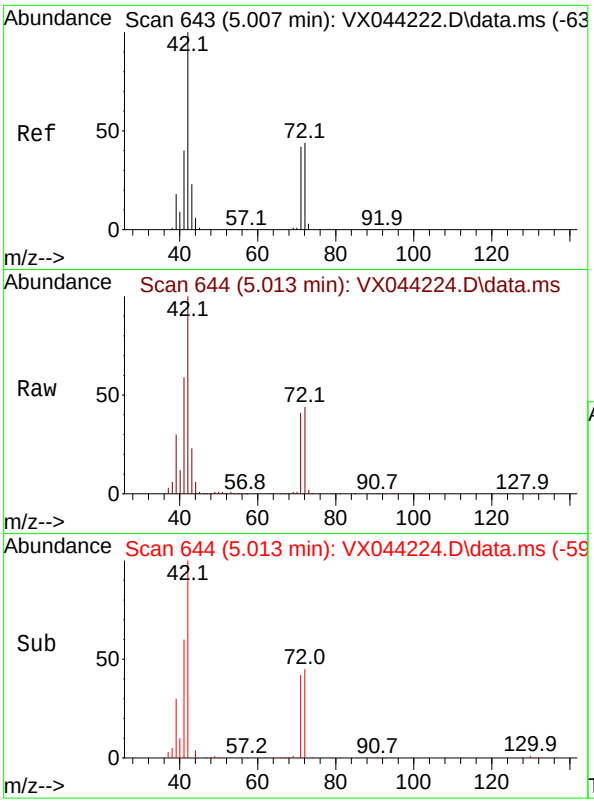


#28
Bromochloromethane
Concen: 148.269 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 49 Resp: 200978

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	77.2	62.1	93.1



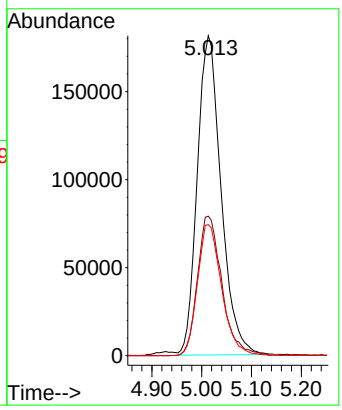


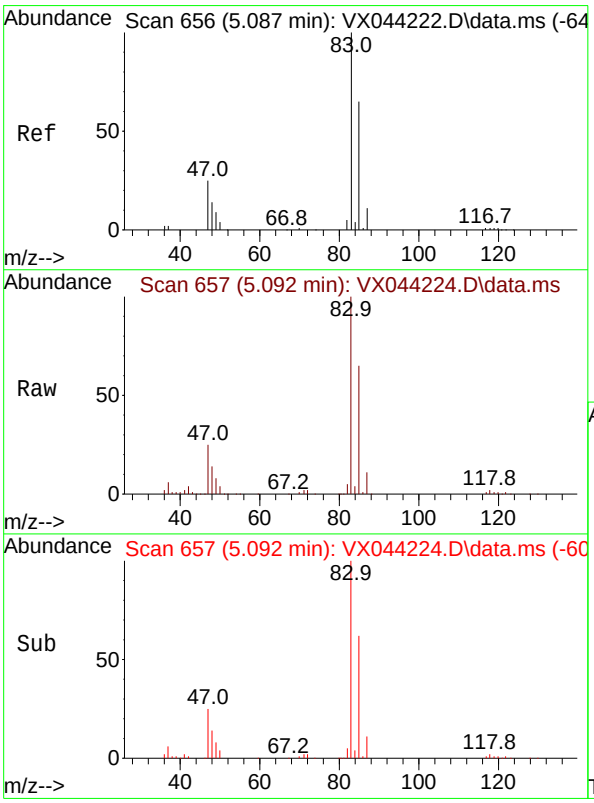
#29
Tetrahydrofuran
Concen: 782.561 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 602095

Ion	Ratio	Lower	Upper
42	100		
72	44.8	37.0	55.6
71	41.7	33.6	50.4

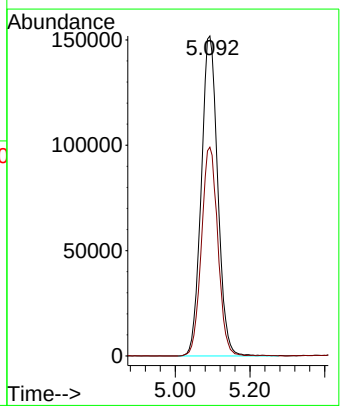


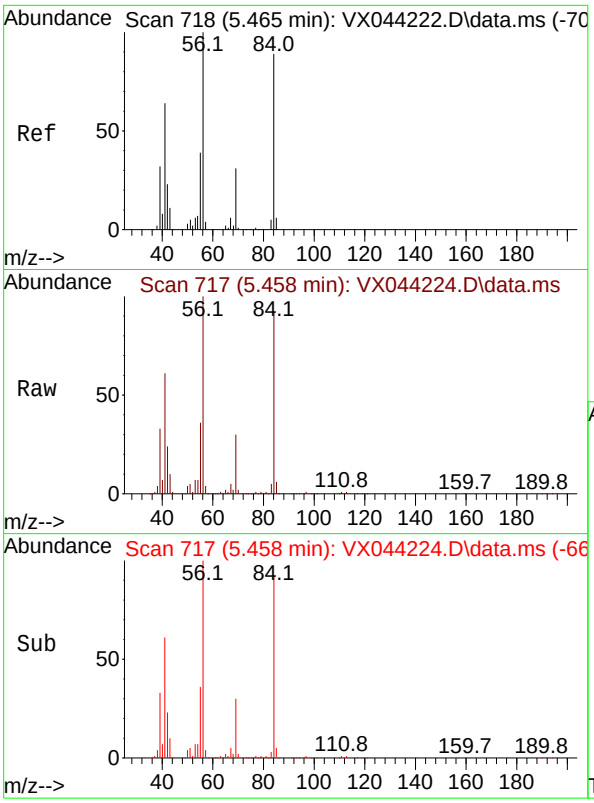


#30
Chloroform
Concen: 149.274 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 83 Resp: 463606

Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.6	77.4



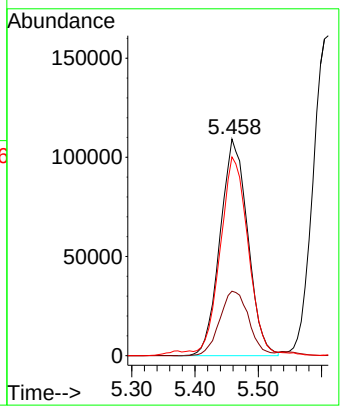


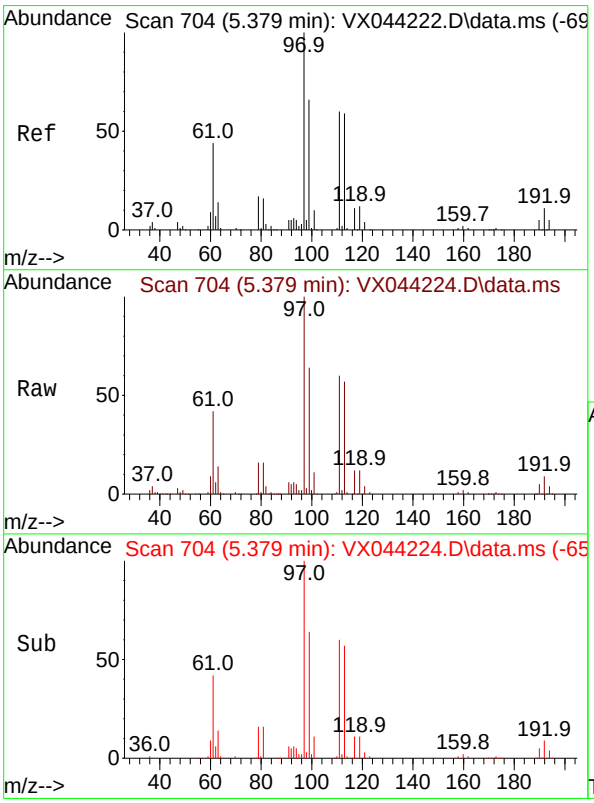
#31
Cyclohexane
Concen: 148.745 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 332026

Ion	Ratio	Lower	Upper
56	100		
69	29.8	24.7	37.1
84	90.1	71.0	106.6

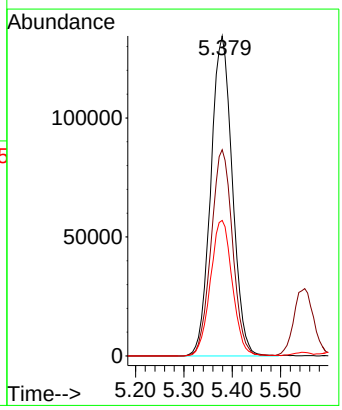


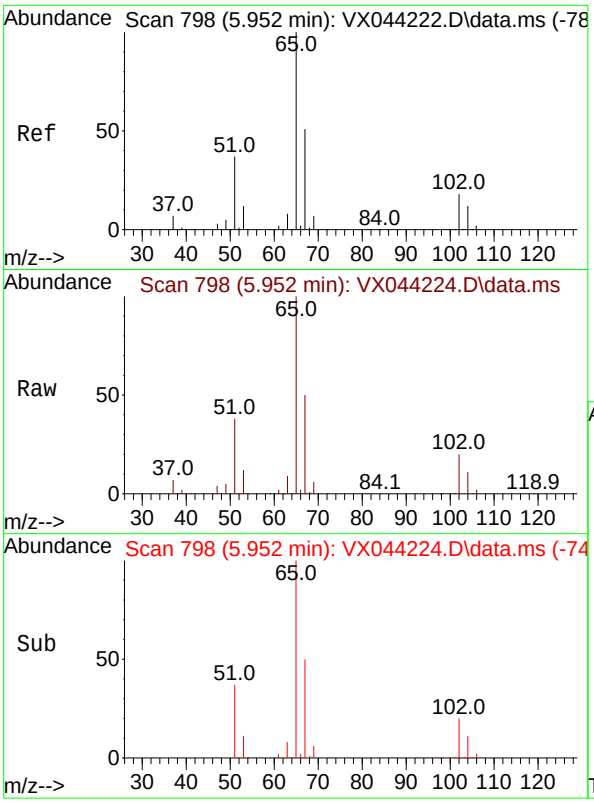


#32
1,1,1-Trichloroethane
Concen: 161.073 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 97 Resp: 415253

Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.8	76.2
61	43.2	35.2	52.8



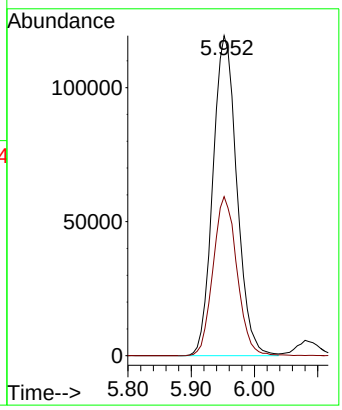


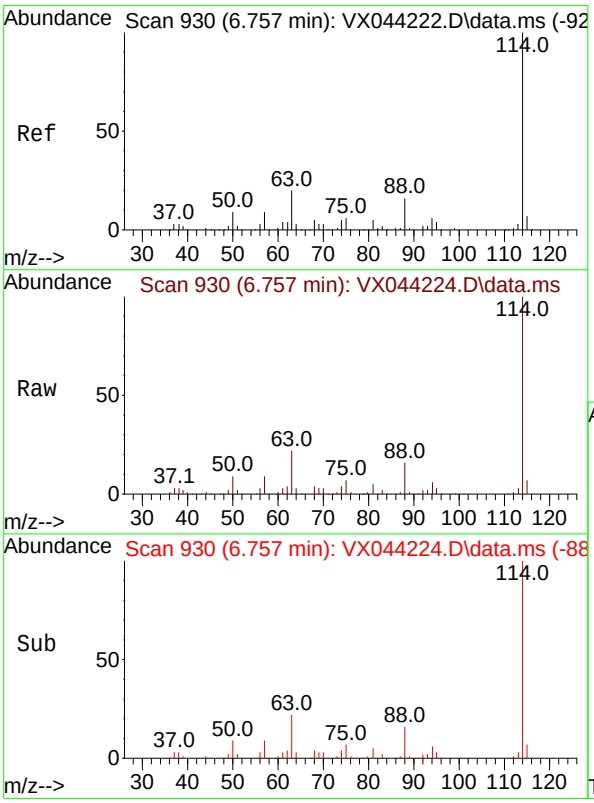
#33
1,2-Dichloroethane-d4
Concen: 151.956 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 314272

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	101.6

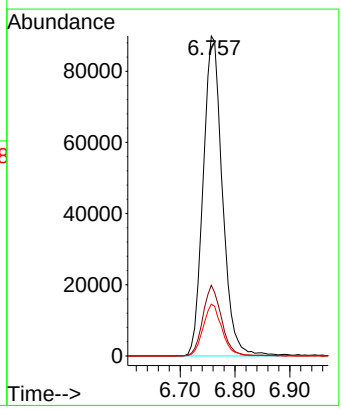


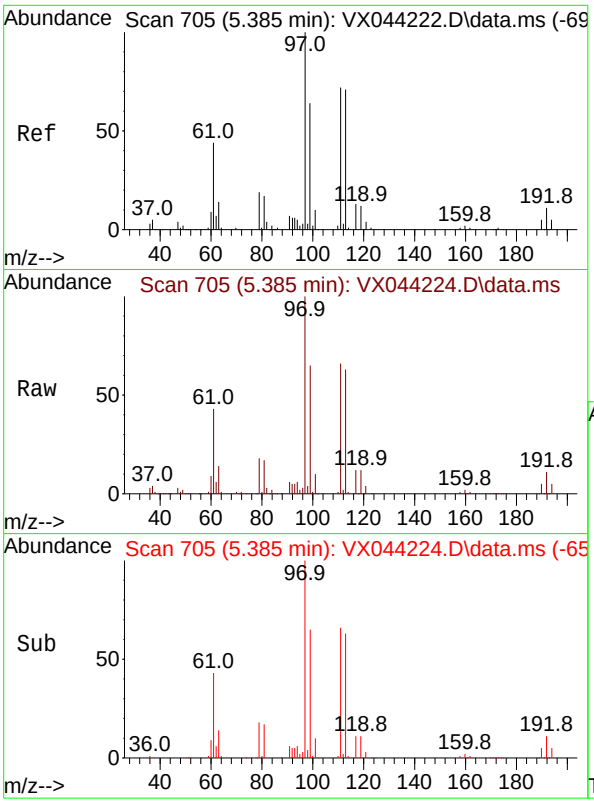


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:114 Resp: 218610

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	40.6
88	16.2	0.0	31.8



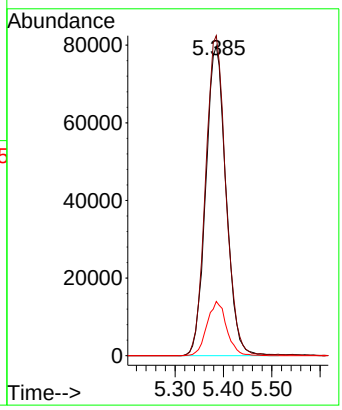


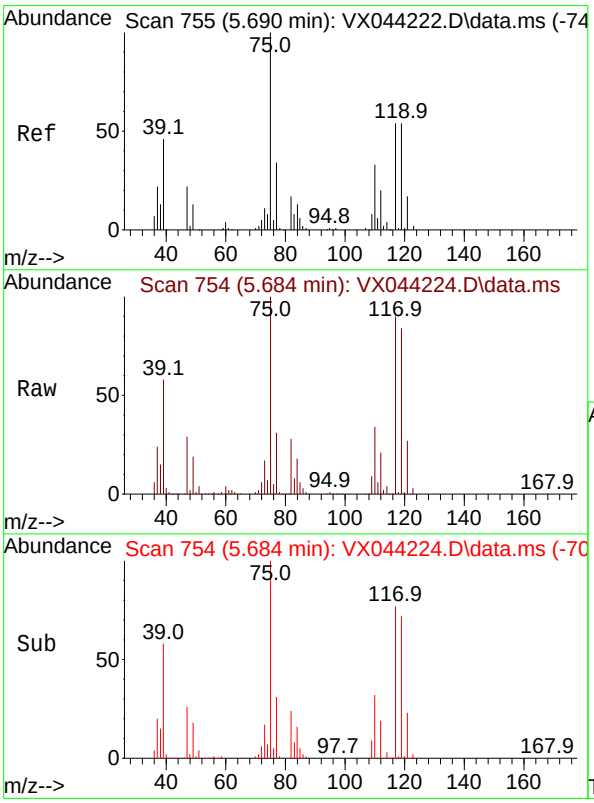
#35
Dibromofluoromethane
Concen: 153.188 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 231937

Ion	Ratio	Lower	Upper
113	100		
111	103.1	80.4	120.6
192	17.0	13.3	19.9

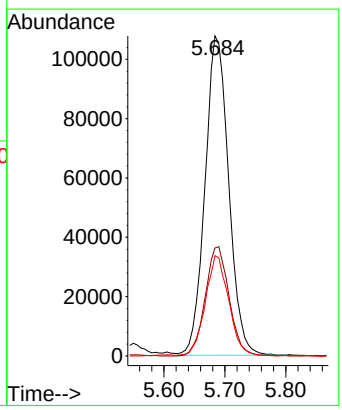


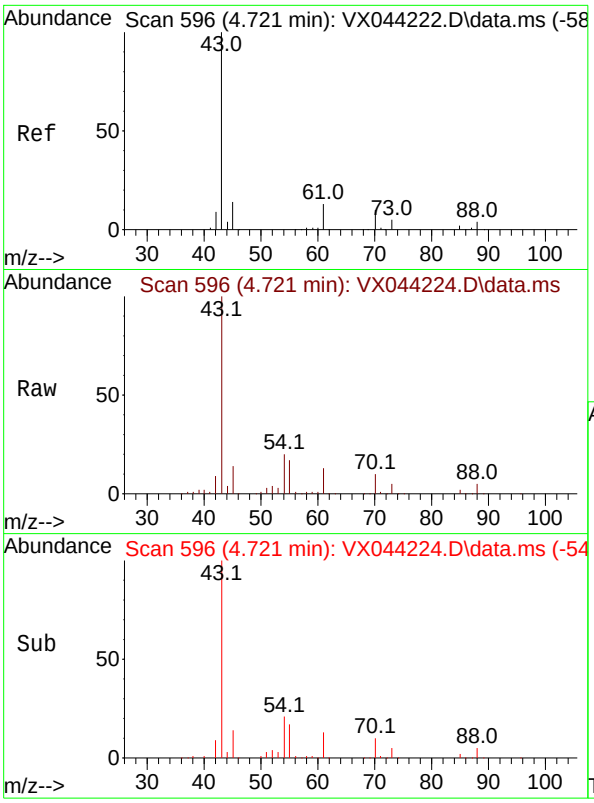


#36
1,1-Dichloropropene
Concen: 148.642 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 290913

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.3	51.7
77	31.1	25.4	38.0



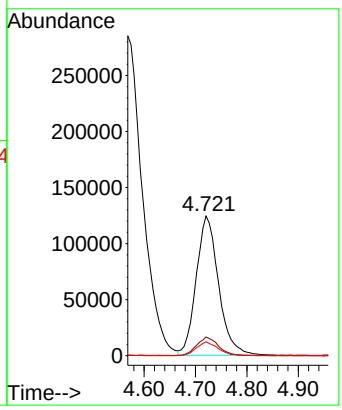


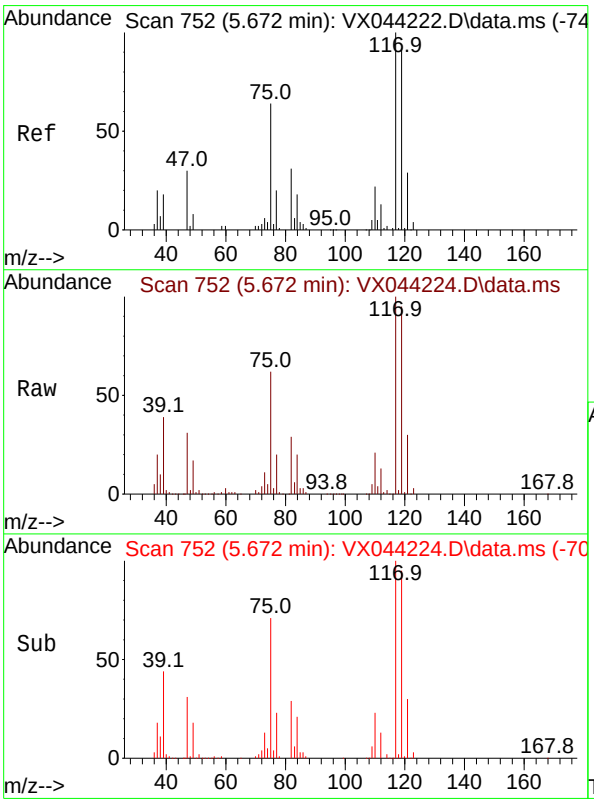
#37
Ethyl Acetate
Concen: 155.731 ug/l
RT: 4.721 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 376757

Ion	Ratio	Lower	Upper
43	100		
61	13.2	9.8	14.8
70	9.6	7.7	11.5

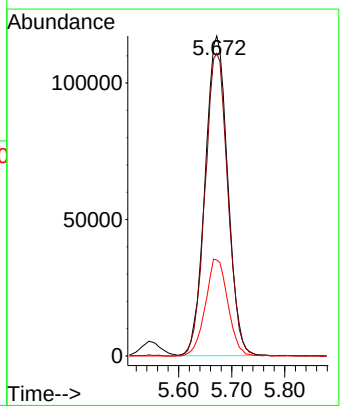


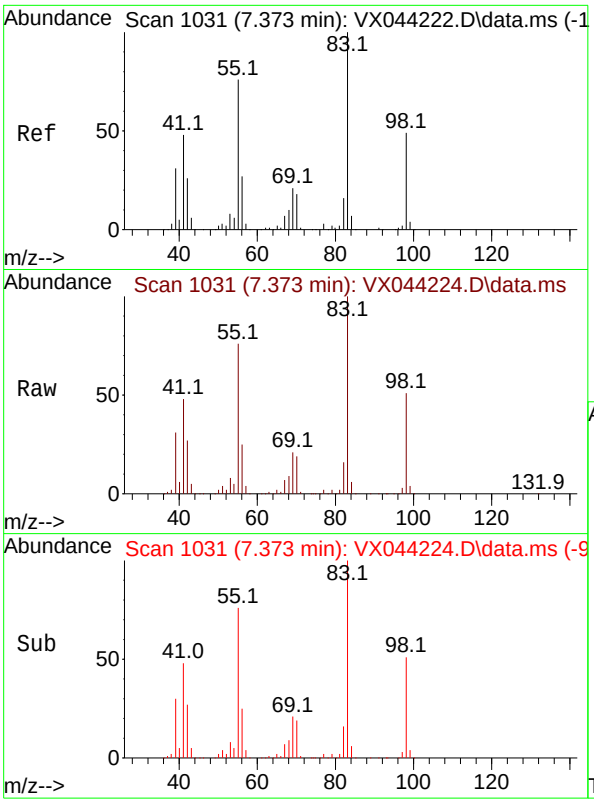


#38
Carbon Tetrachloride
Concen: 164.587 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:117 Resp: 346795

Ion	Ratio	Lower	Upper
117	100		
119	94.6	74.2	111.4
121	30.1	23.0	34.6



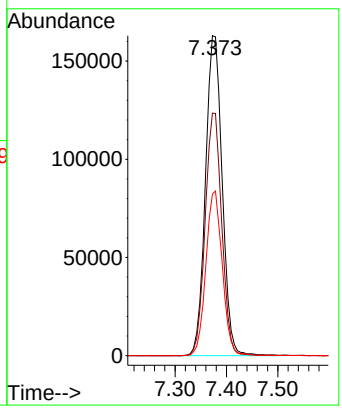


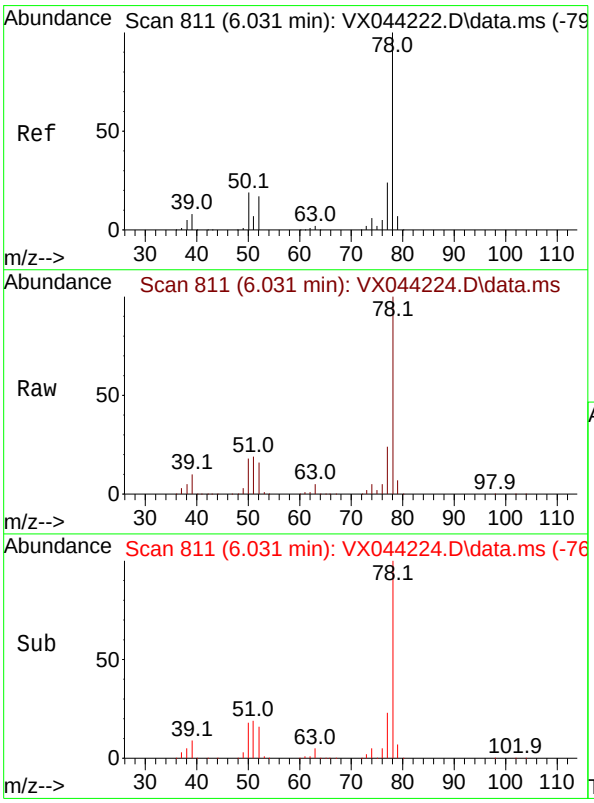
#39
Methylcyclohexane
Concen: 157.516 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 368542

Ion	Ratio	Lower	Upper
83	100		
55	75.8	60.7	91.1
98	50.5	38.9	58.3

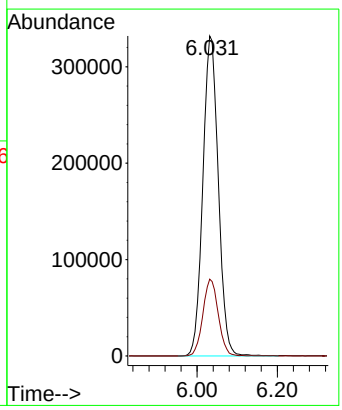


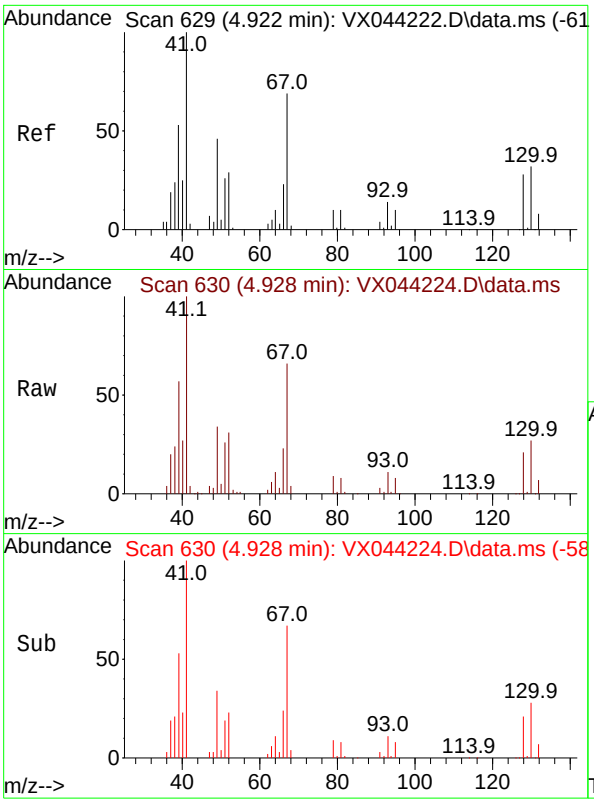


#40
Benzene
Concen: 149.340 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 78 Resp: 887413

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.3	28.9



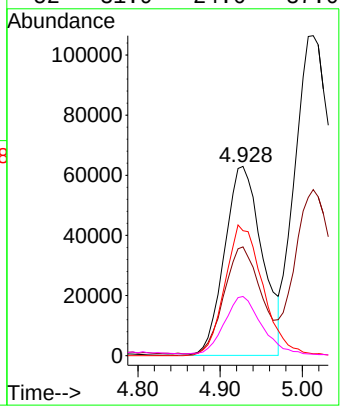


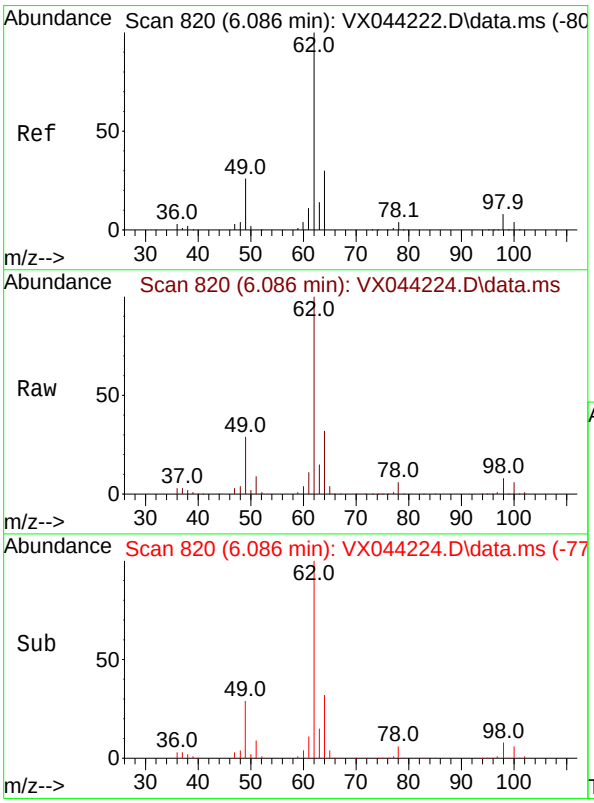
#41
Methacrylonitrile
Concen: 155.569 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 199851

Ion	Ratio	Lower	Upper
41	100		
39	54.5	44.2	66.4
67	70.2	57.2	85.8
52	31.9	24.6	37.0

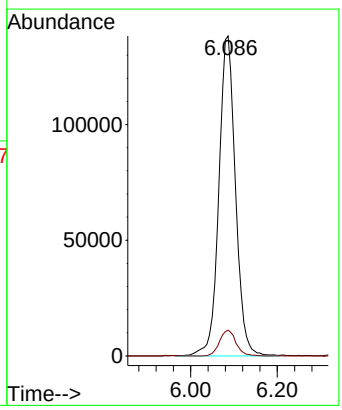


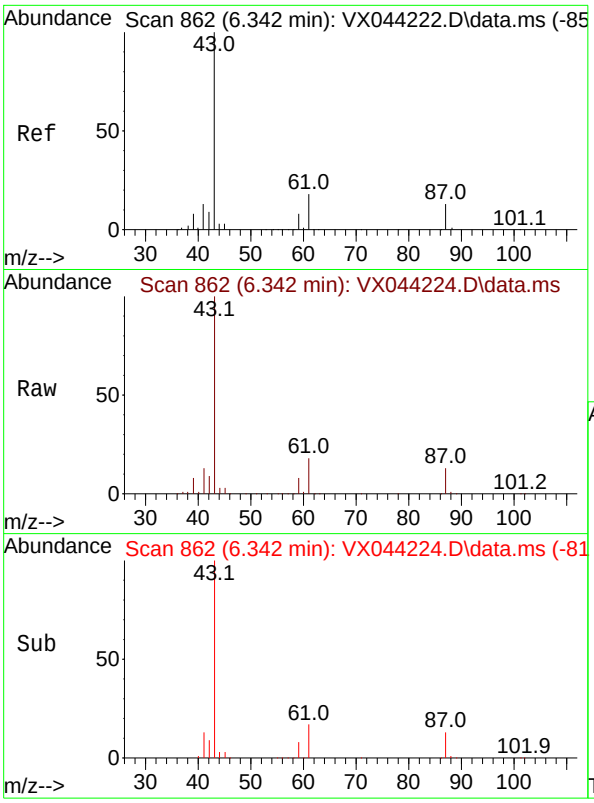


#42
1,2-Dichloroethane
Concen: 151.105 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 62 Resp: 369874

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	15.8



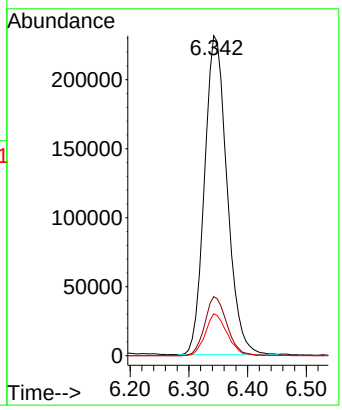


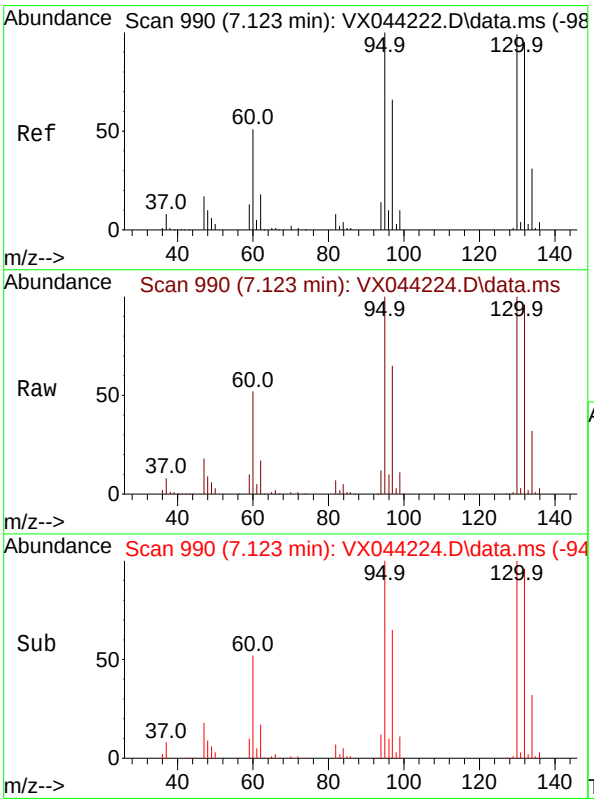
#43
Isopropyl Acetate
Concen: 163.200 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 617107

Ion	Ratio	Lower	Upper
43	100		
61	18.2	14.2	21.2
87	12.8	10.2	15.2

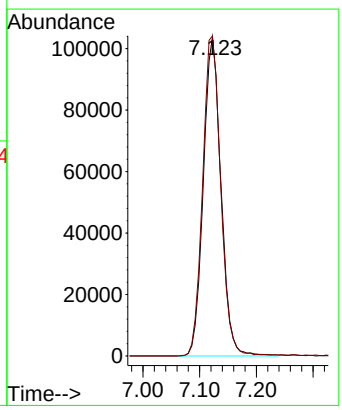


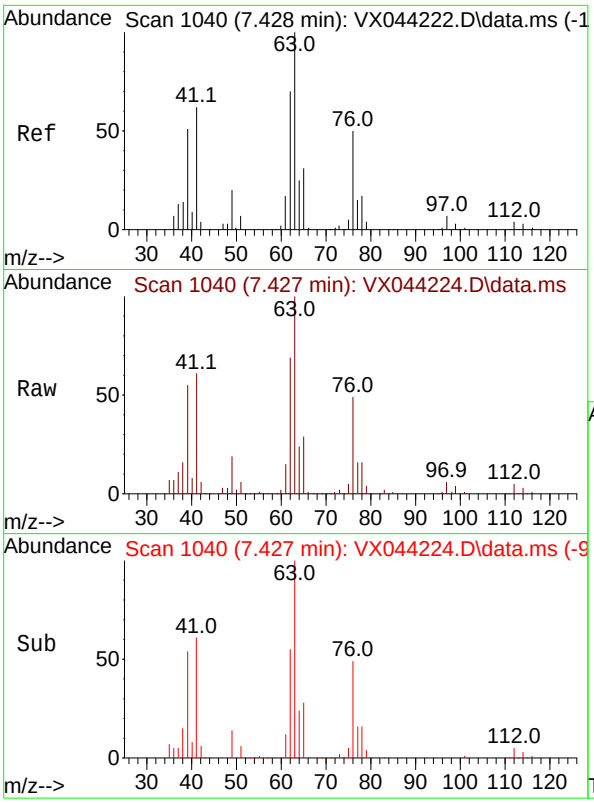


#44
Trichloroethene
Concen: 151.275 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:130 Resp: 224164

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	201.4



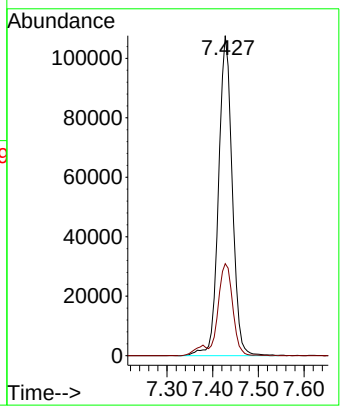


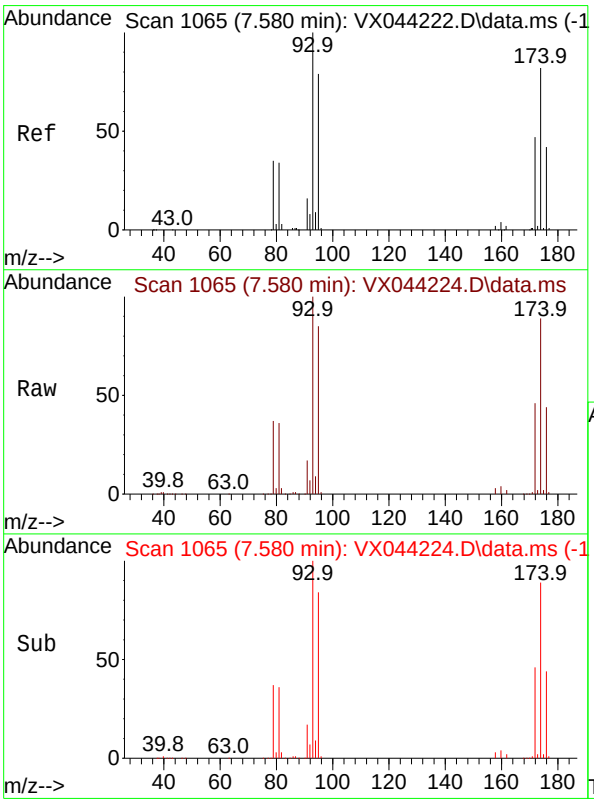
#45
1,2-Dichloropropane
Concen: 147.697 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 224224

Ion	Ratio	Lower	Upper
63	100		
65	28.8	24.6	37.0

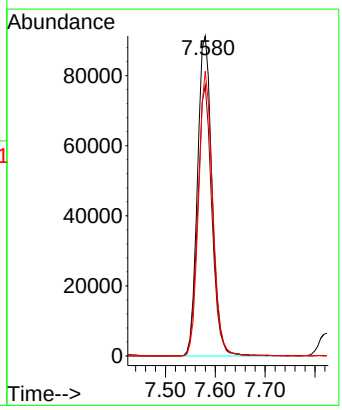


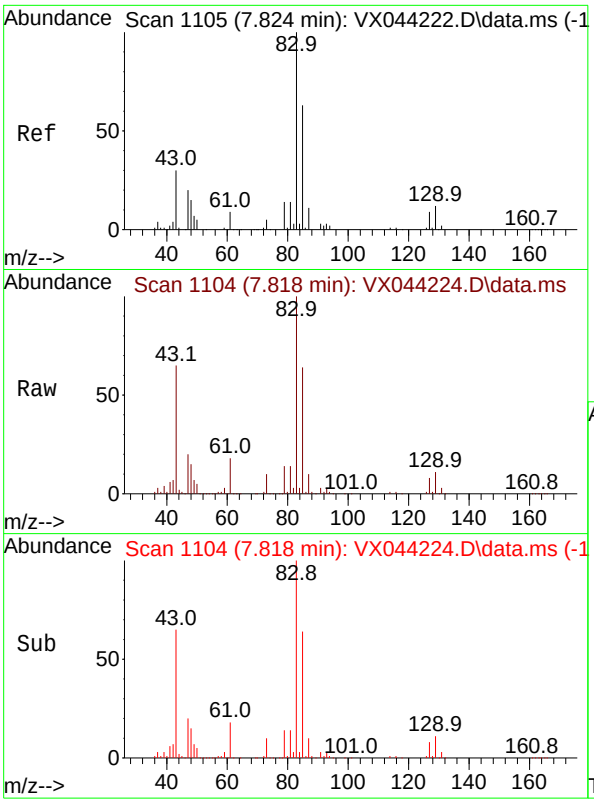


#46
Dibromomethane
Concen: 156.728 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 93 Resp: 184590

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.4	98.2
174	86.7	67.9	101.9



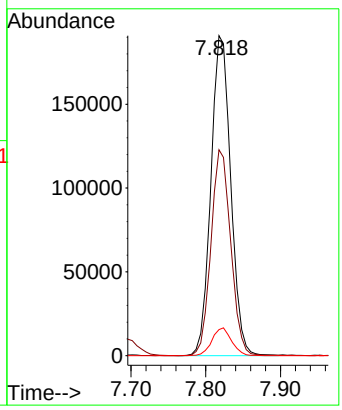


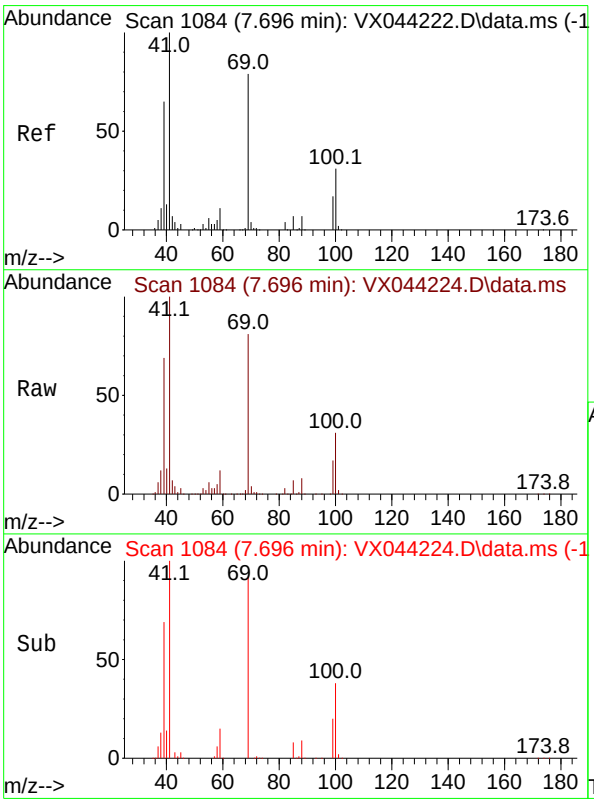
#47
Bromodichloromethane
Concen: 173.496 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 352904

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.6	75.8
127	8.1	7.3	10.9

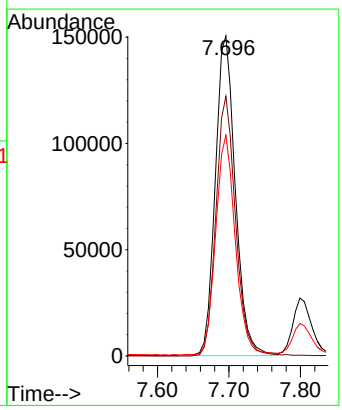


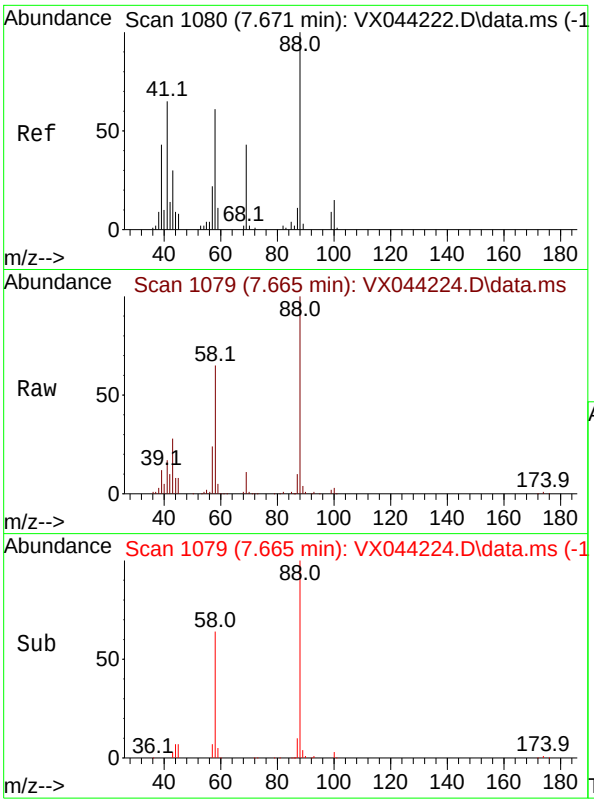


#48
Methyl methacrylate
Concen: 159.567 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 41 Resp: 292890

Ion	Ratio	Lower	Upper
41	100		
69	80.0	62.4	93.6
39	67.8	53.3	79.9





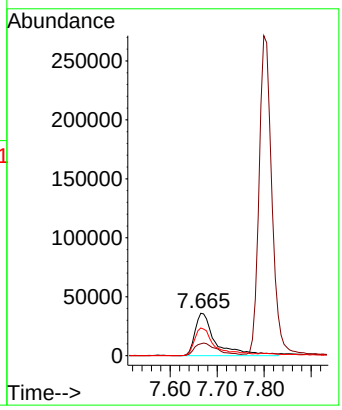
#49
1,4-Dioxane
Concen: 3539.235 ug/l
RT: 7.665 min Scan# 1

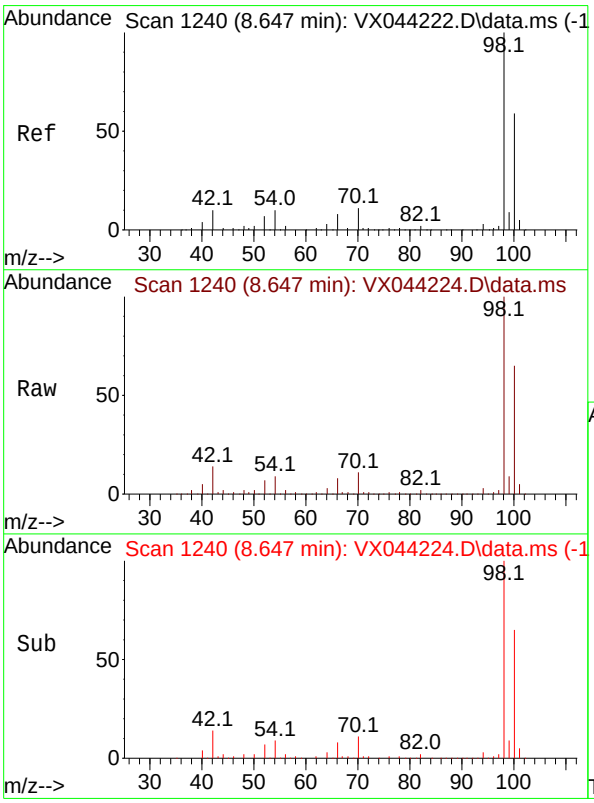
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 88 Resp: 111023

Ion	Ratio	Lower	Upper
88	100		
43	32.0	27.1	40.7
58	63.3	41.0	61.4#

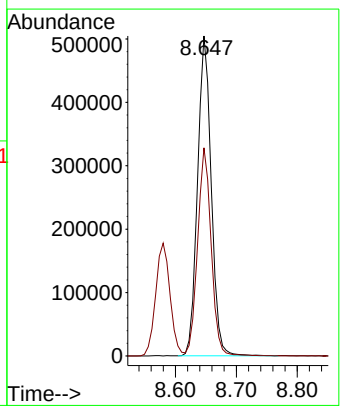


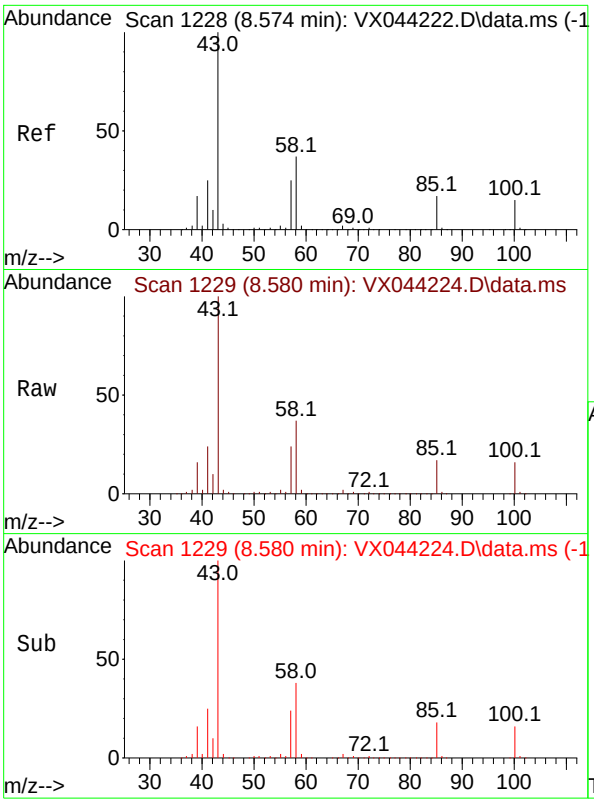


#50
Toluene-d8
Concen: 154.438 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 98 Resp: 788876

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.5	77.3



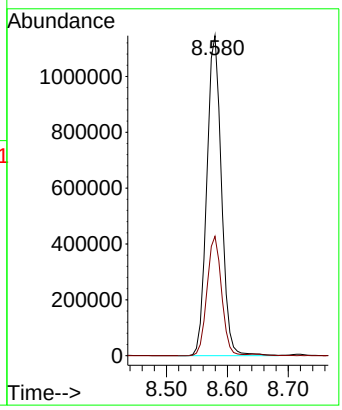


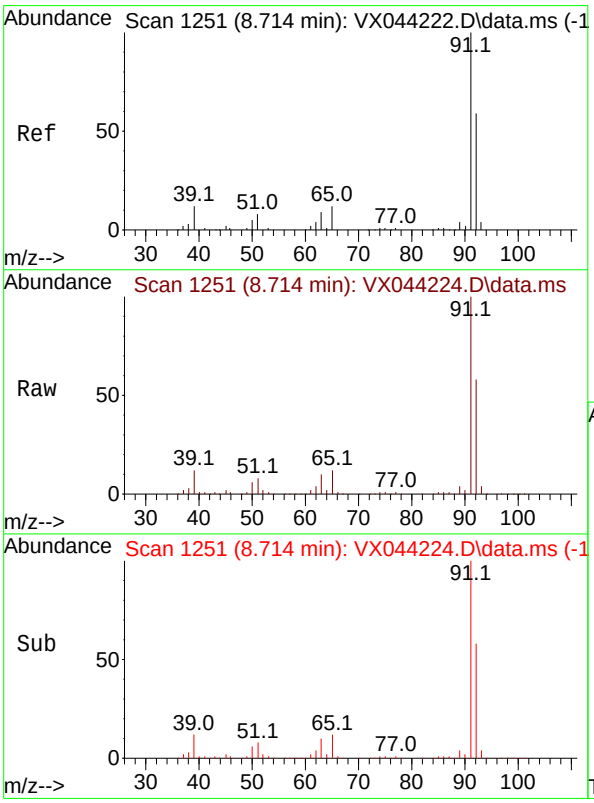
#51
4-Methyl-2-Pentanone
Concen: 784.573 ug/l
RT: 8.580 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1907523

Ion	Ratio	Lower	Upper
43	100		
58	37.1	29.4	44.0

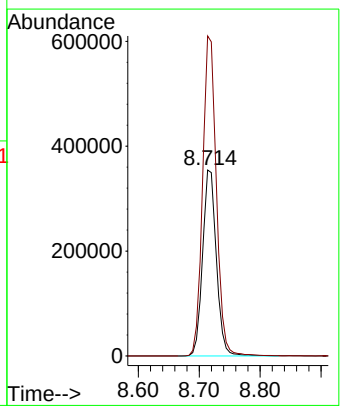


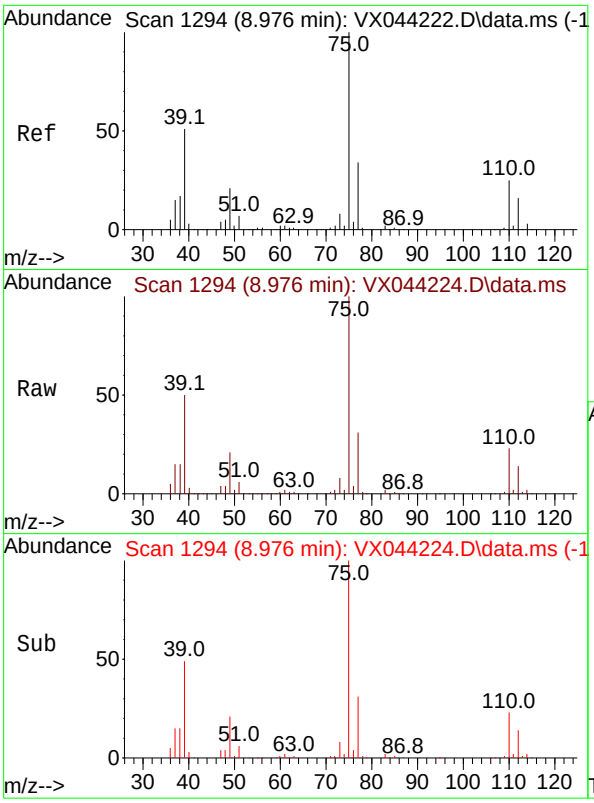


#52
Toluene
Concen: 149.294 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 92 Resp: 557102

Ion	Ratio	Lower	Upper
92	100		
91	172.4	137.0	205.6



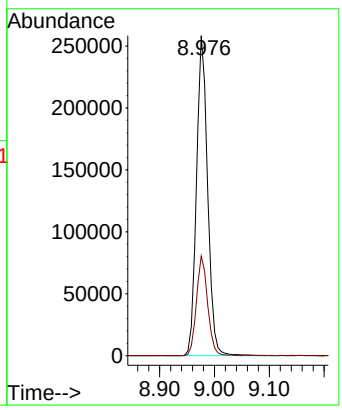


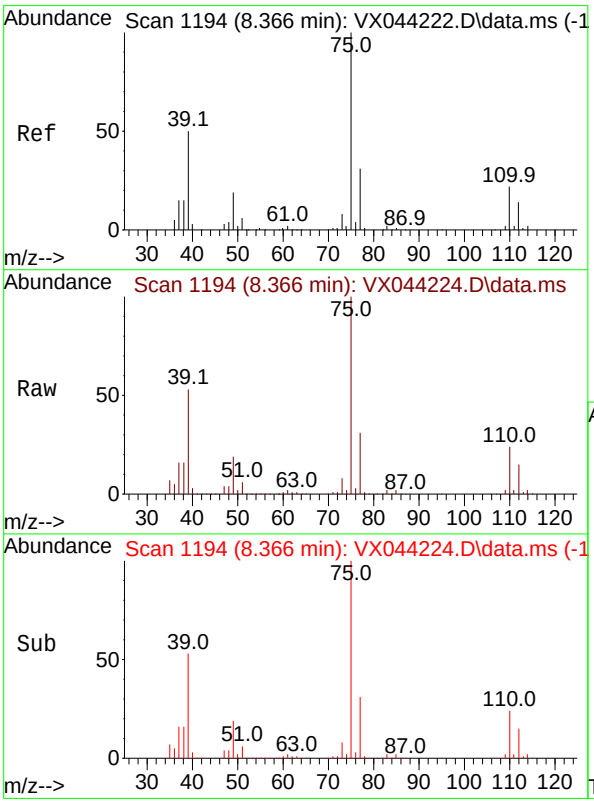
#53
t-1,3-Dichloropropene
Concen: 150.167 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 366275

Ion	Ratio	Lower	Upper
75	100		
77	31.1	27.2	40.8

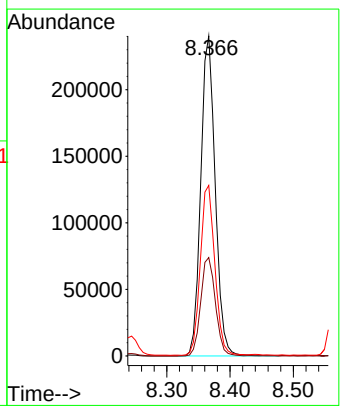


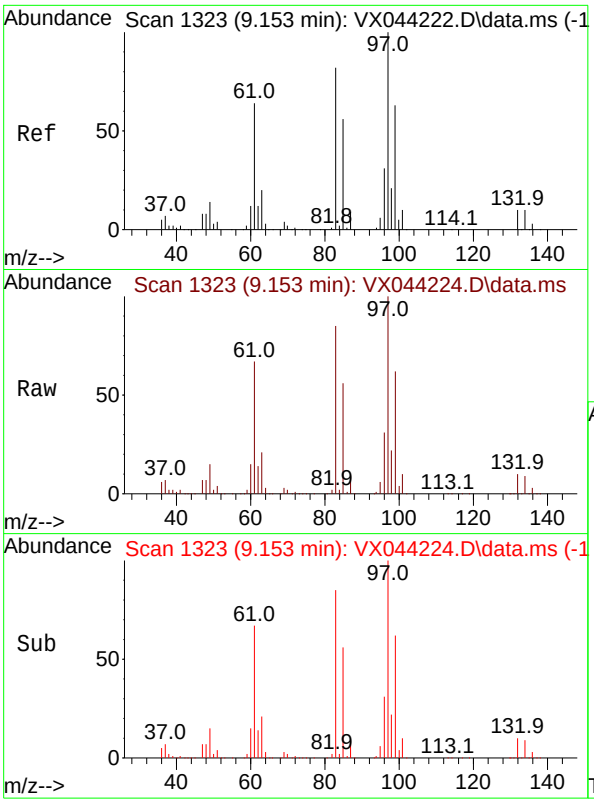


#54
cis-1,3-Dichloropropene
Concen: 172.581 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 382226

Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.7	37.1
39	53.1	40.3	60.5



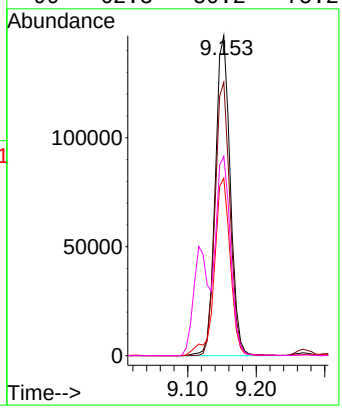


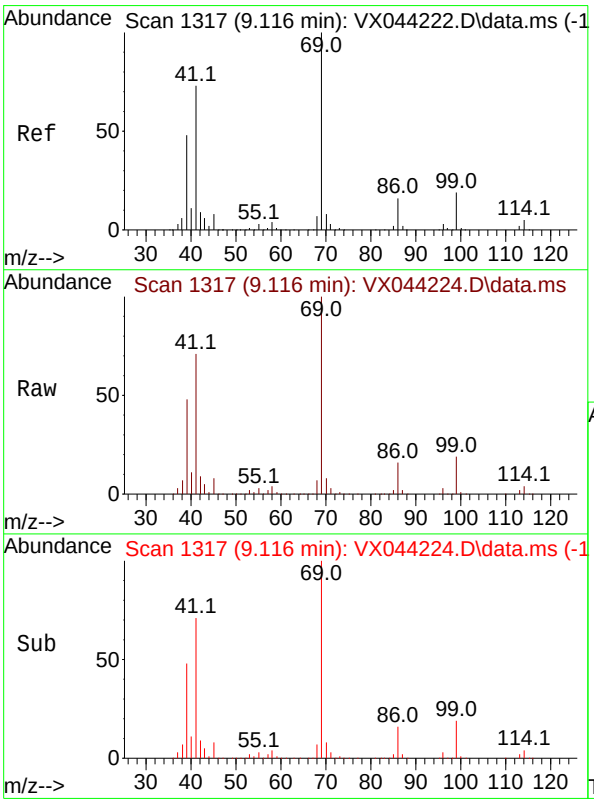
#55
1,1,2-Trichloroethane
Concen: 150.202 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 222665

Ion	Ratio	Lower	Upper
97	100		
83	85.5	65.3	97.9
85	55.5	44.6	67.0
99	62.3	50.2	75.2

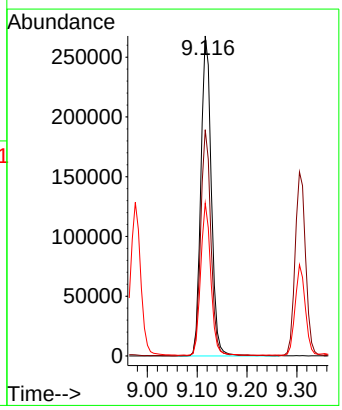


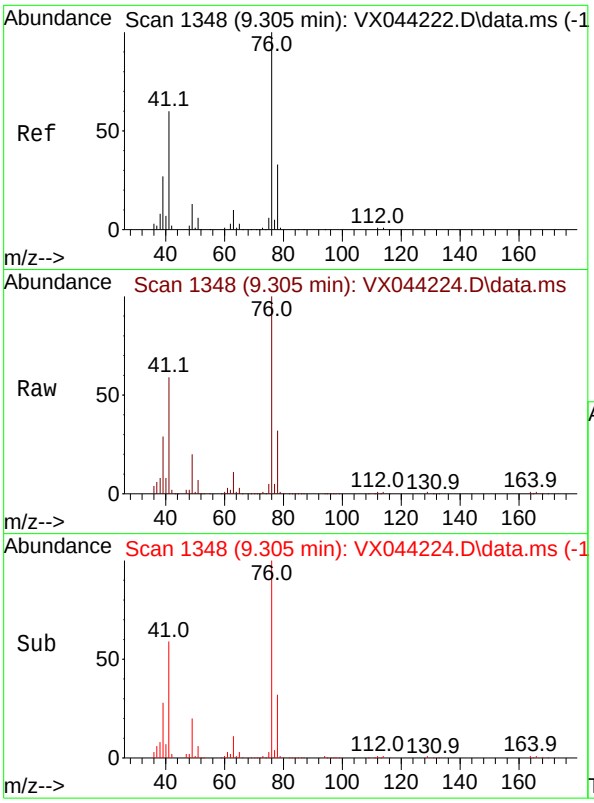


#56
Ethyl methacrylate
Concen: 166.289 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 69 Resp: 389165

Ion	Ratio	Lower	Upper
69	100		
41	69.4	56.6	85.0
39	46.2	37.4	56.0



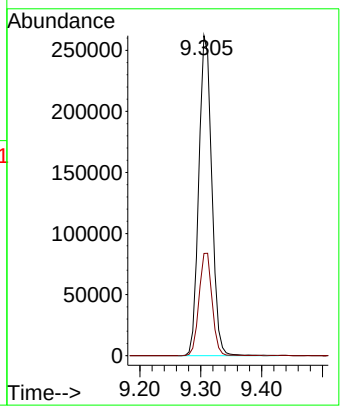


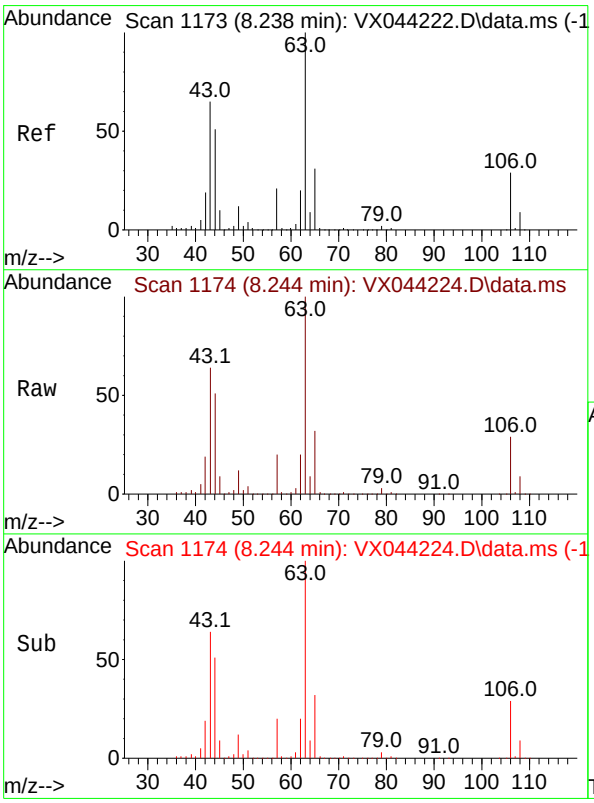
#57
1,3-Dichloropropane
Concen: 150.014 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 387086

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.5	39.7

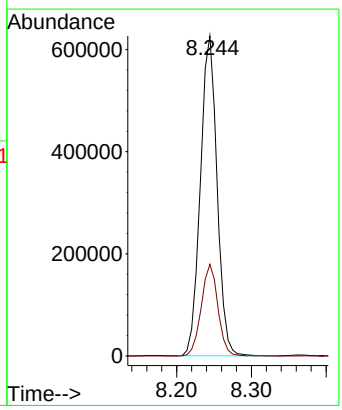


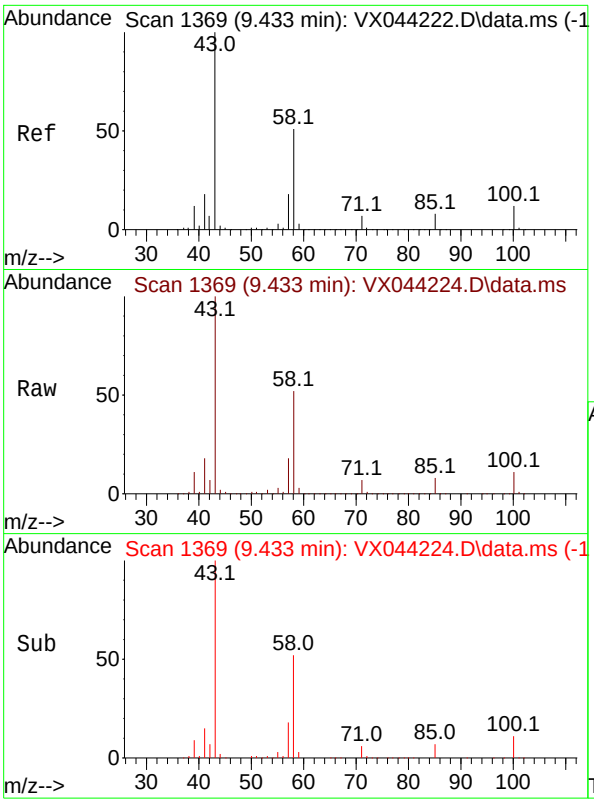


#58
2-Chloroethyl Vinyl ether
Concen: 822.575 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 63 Resp: 970949

Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.8	34.2



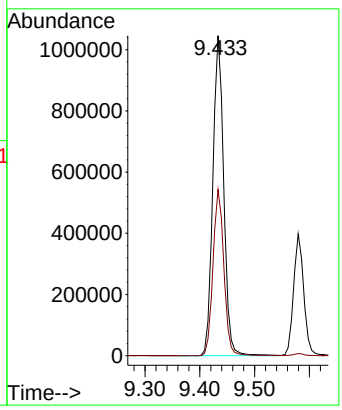


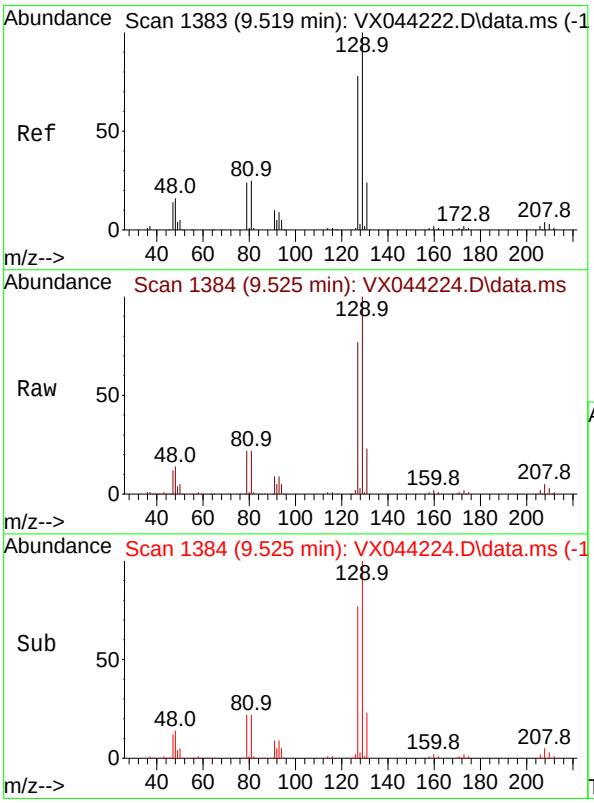
#59
2-Hexanone
Concen: 816.161 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1436300

Ion	Ratio	Lower	Upper
43	100		
58	52.0	25.7	77.0

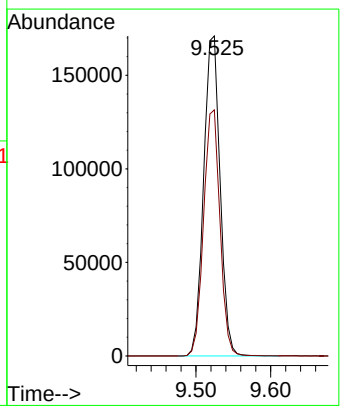


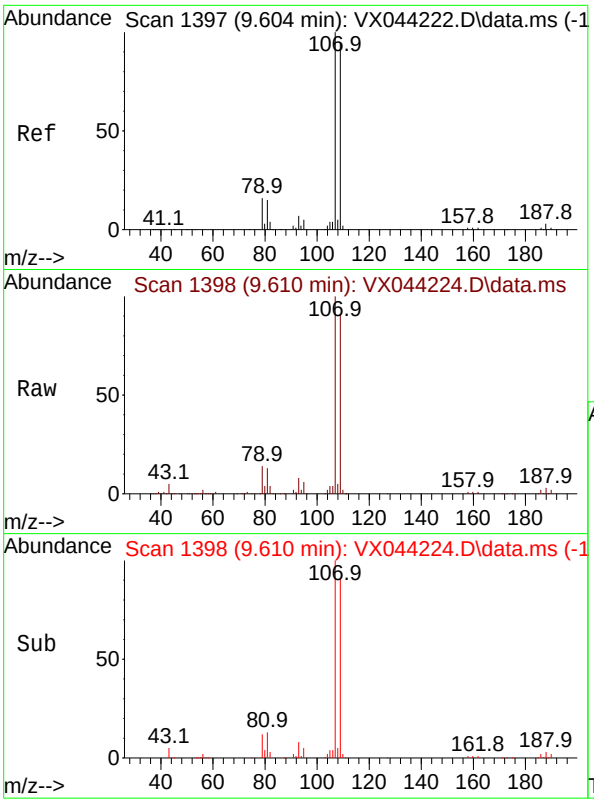


#60
Dibromochloromethane
Concen: 150.105 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:129 Resp: 261253

Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.5	115.3



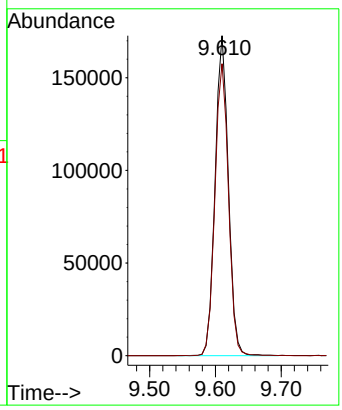


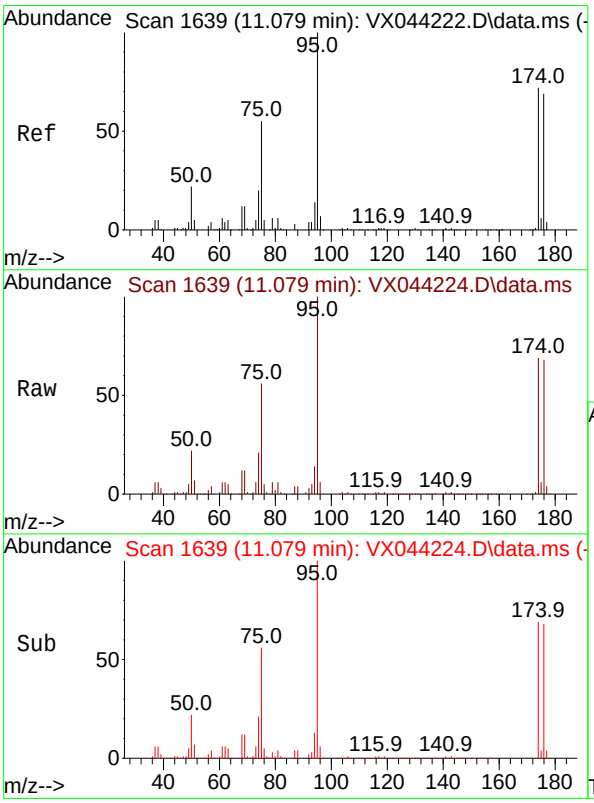
#61
1,2-Dibromoethane
Concen: 160.674 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 242451

Ion	Ratio	Lower	Upper
107	100		
109	93.4	77.0	115.4

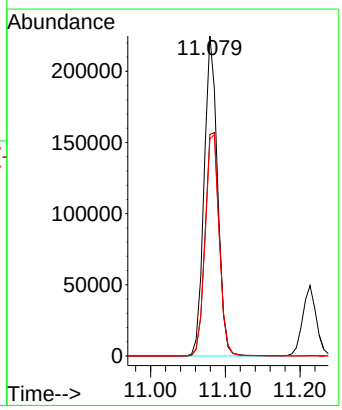


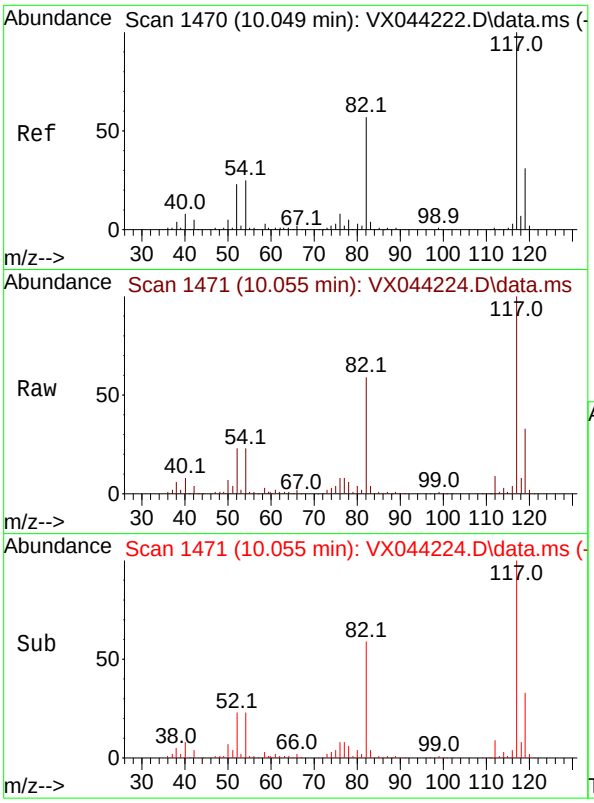


#62
4-Bromofluorobenzene
Concen: 156.709 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 95 Resp: 279706

Ion	Ratio	Lower	Upper
95	100		
174	74.1	0.0	145.8
176	72.6	0.0	137.8



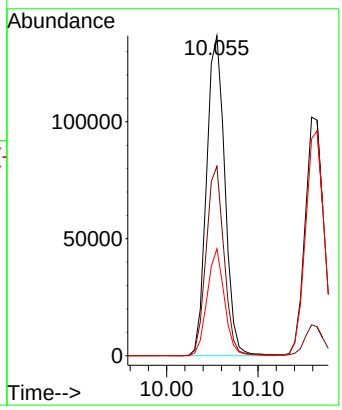


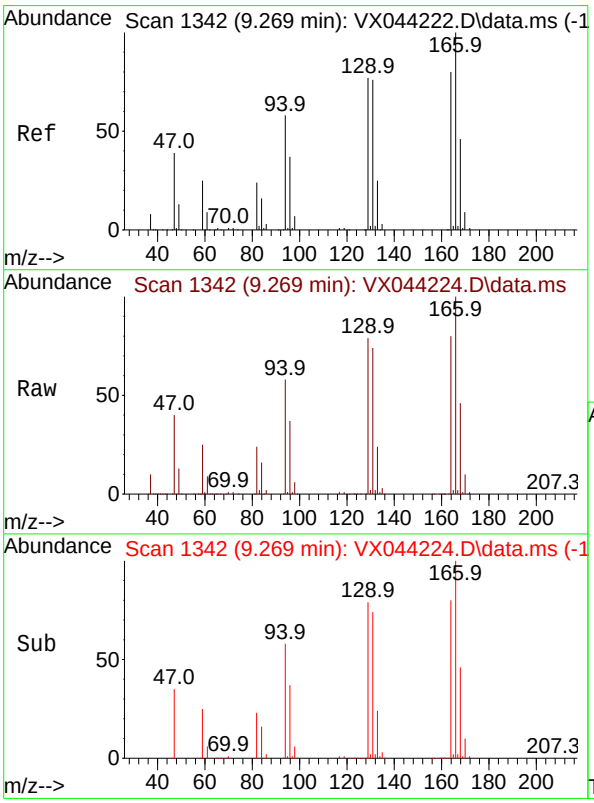
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 190013

Ion	Ratio	Lower	Upper
117	100		
82	59.2	45.8	68.8
119	33.4	25.0	37.4

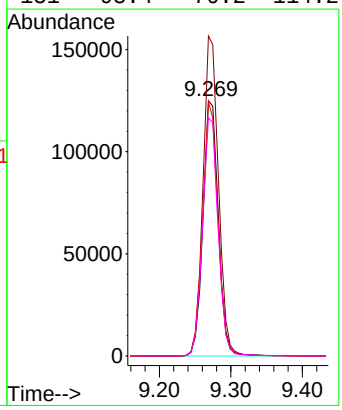


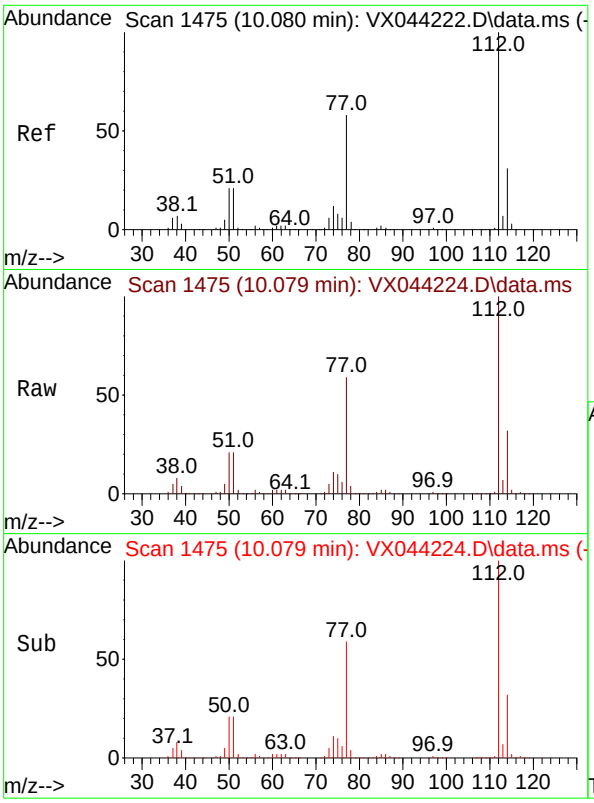


#64
Tetrachloroethene
Concen: 147.836 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:164 Resp: 186443

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	99.7	77.2	115.8
131	93.4	76.2	114.2



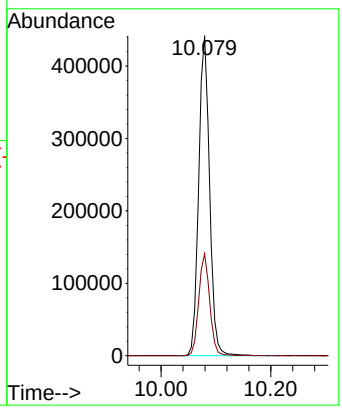


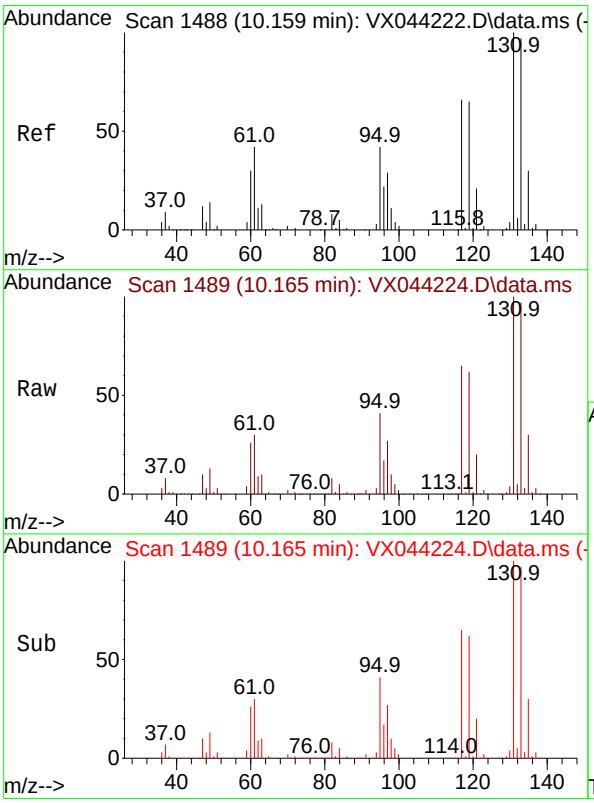
#65
Chlorobenzene
Concen: 149.428 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 608404

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.0	37.6

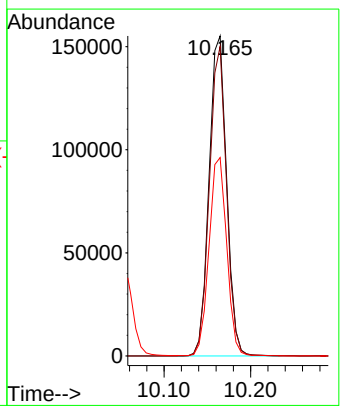


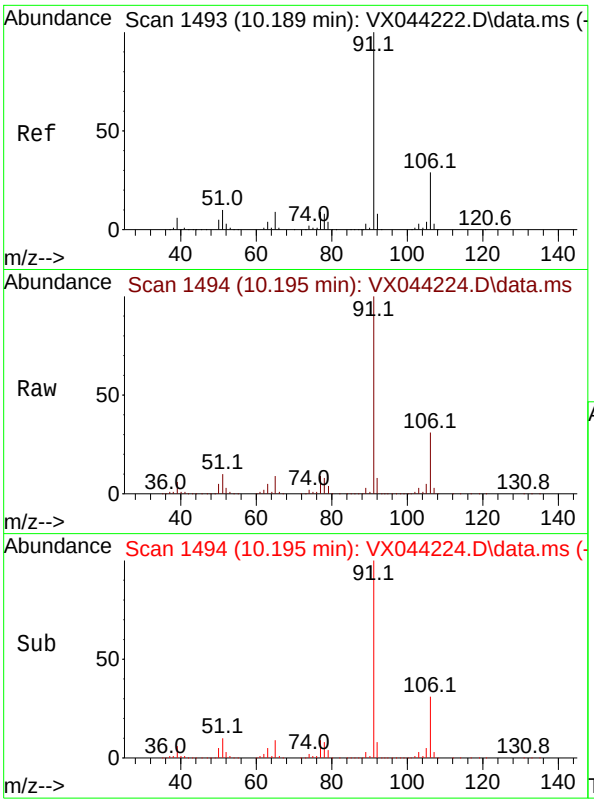


#66
1,1,1,2-Tetrachloroethane
Concen: 166.991 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:131 Resp: 218515

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	141.8
119	62.7	31.6	95.0



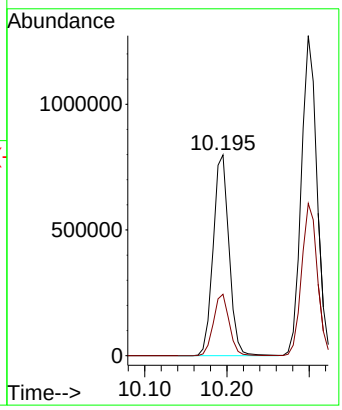


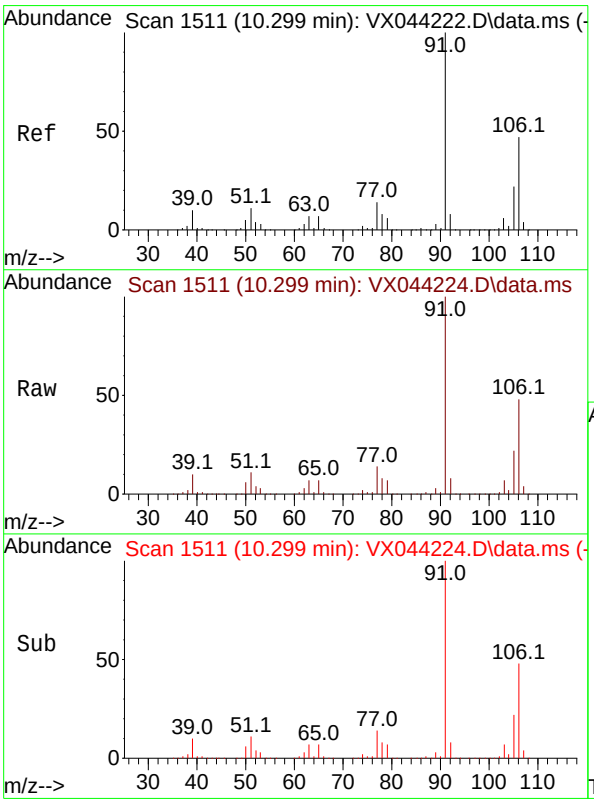
#67
Ethyl Benzene
Concen: 151.917 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1068736

Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.5	35.3

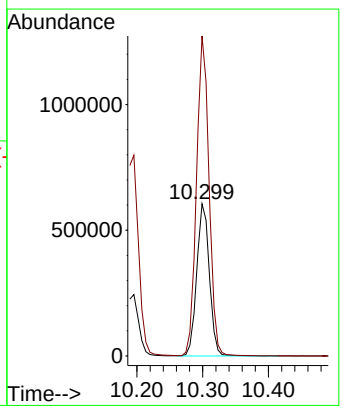


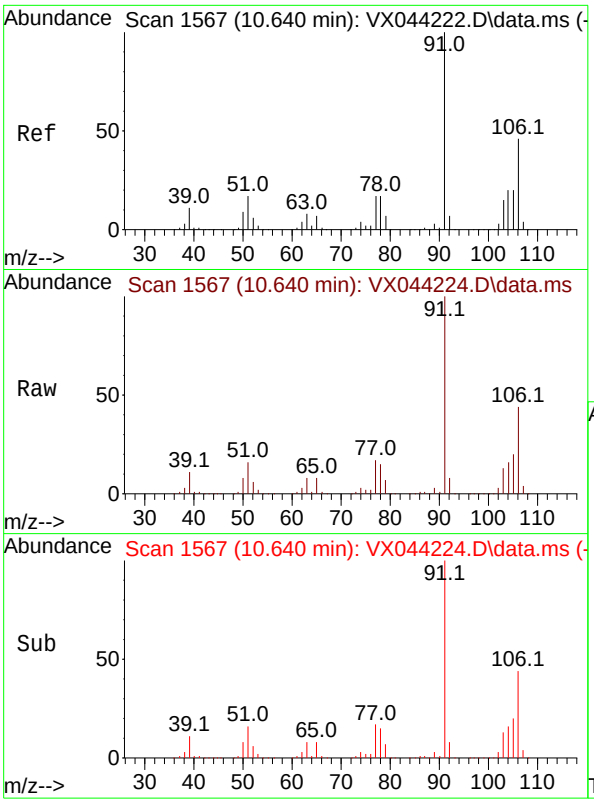


#68
m/p-Xylenes
Concen: 312.254 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:106 Resp: 806058

Ion	Ratio	Lower	Upper
106	100		
91	208.8	170.2	255.2



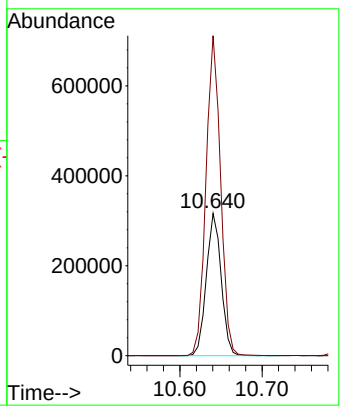


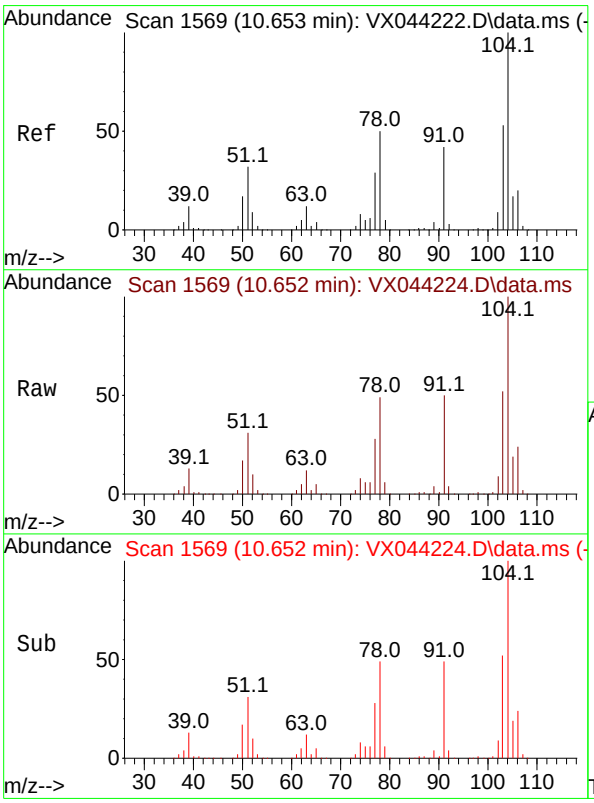
#69
o-Xylene
Concen: 152.030 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 397084

Ion	Ratio	Lower	Upper
106	100		
91	221.5	112.3	337.0

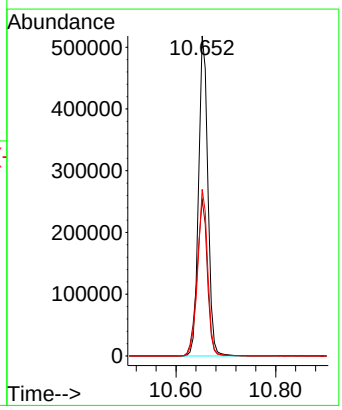


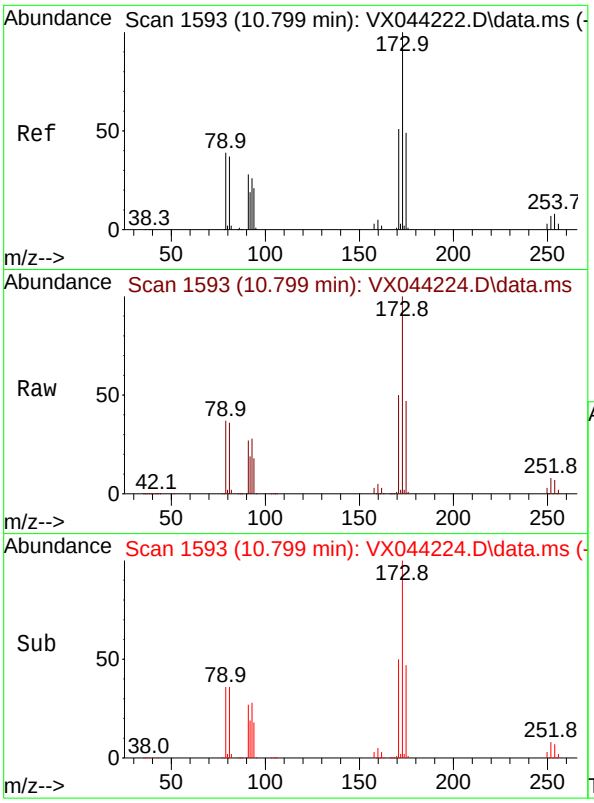


#70
Styrene
Concen: 160.228 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:104 Resp: 670887

Ion	Ratio	Lower	Upper
104	100		
78	54.2	44.6	67.0
103	55.9	45.4	68.0



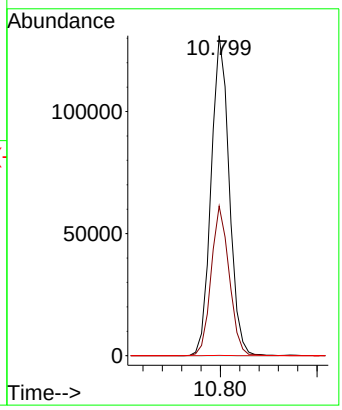


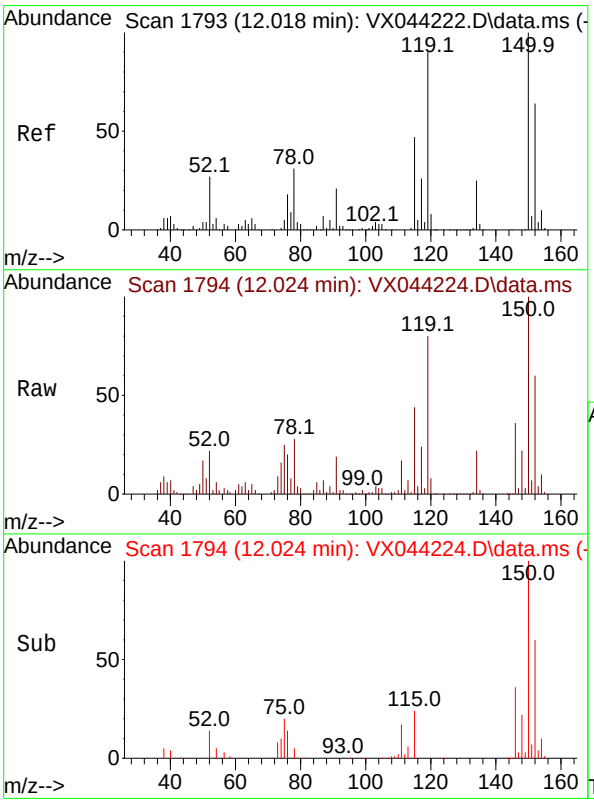
#71
Bromoform
Concen: 150.034 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 169450

Ion	Ratio	Lower	Upper
173	100		
175	46.8	23.8	71.4
254	0.1	0.0	0.0#

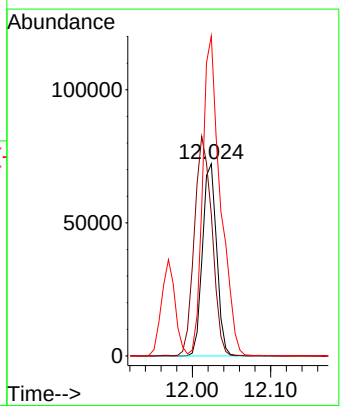


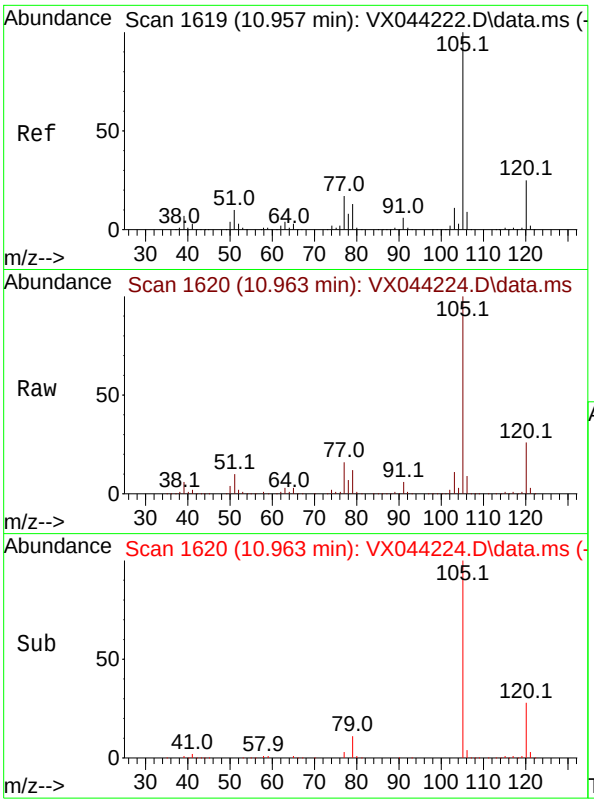


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:152 Resp: 90898

Ion	Ratio	Lower	Upper
152	100		
115	142.2	44.5	133.3#
150	208.8	0.0	353.8



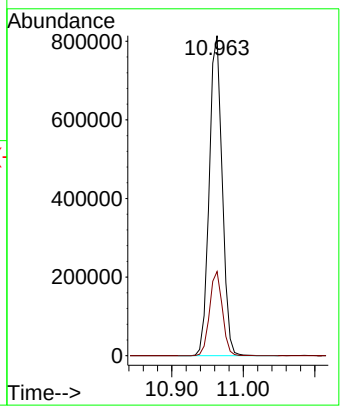


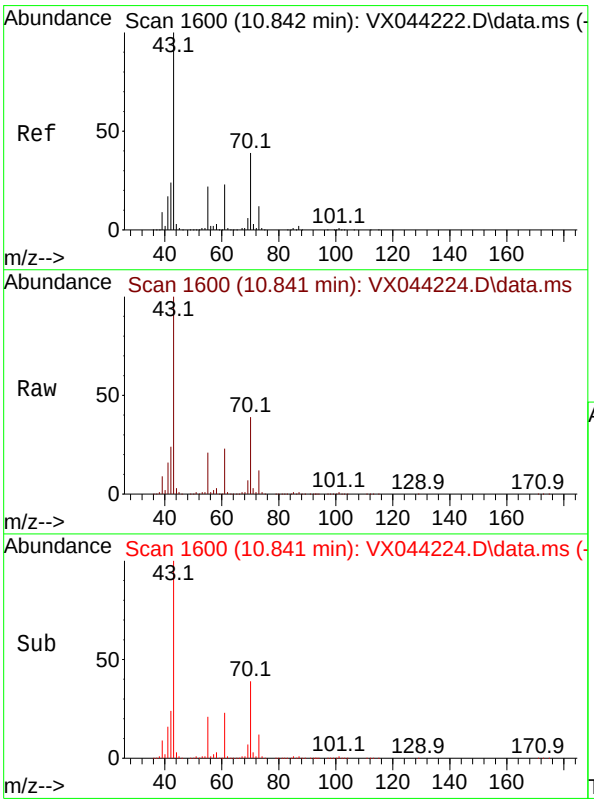
#73
Isopropylbenzene
Concen: 146.832 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1021749

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.1	39.3

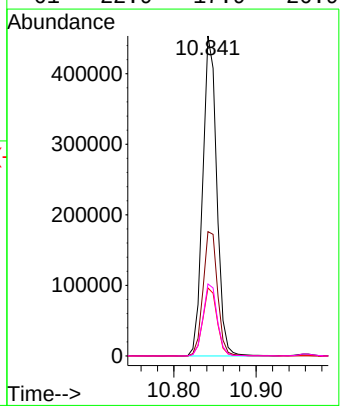


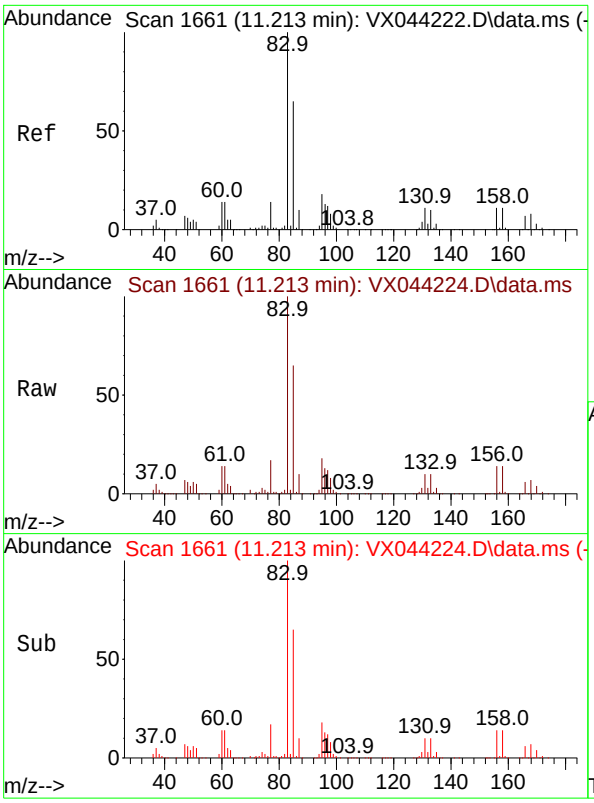


#74
N-amyl acetate
Concen: 166.823 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 536496

Ion	Ratio	Lower	Upper
43	100		
70	40.3	31.9	47.9
55	21.6	17.9	26.9
61	22.9	17.9	26.9



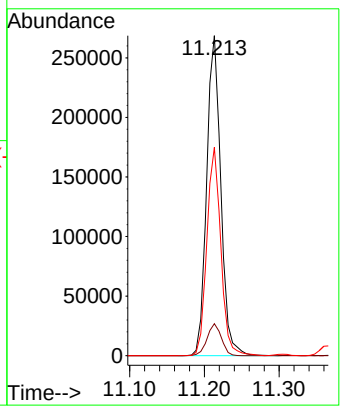


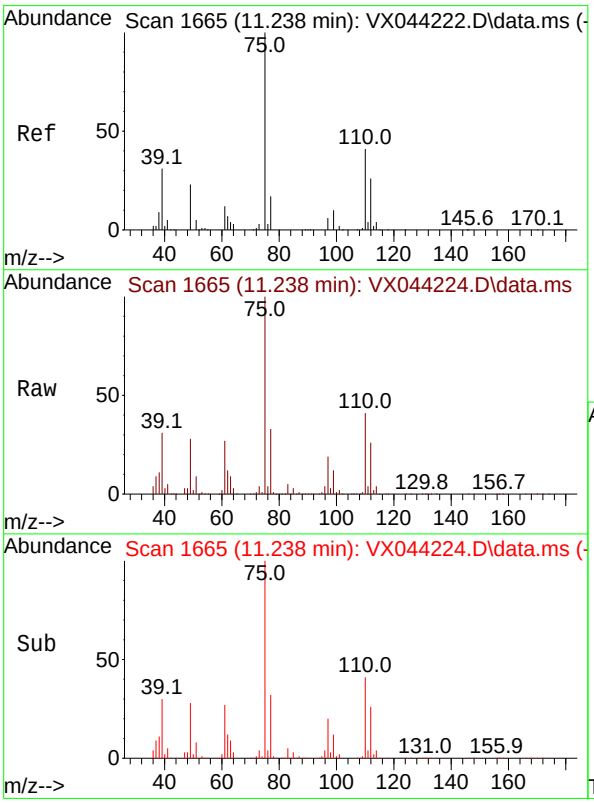
#75
1,1,2,2-Tetrachloroethane
Concen: 145.883 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 352591

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	64.4	32.5	97.4

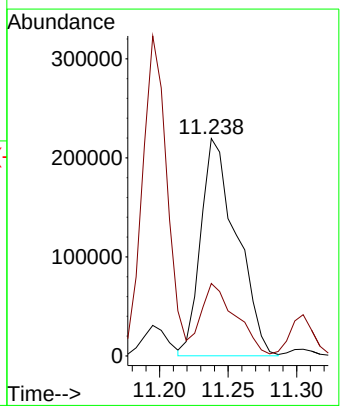


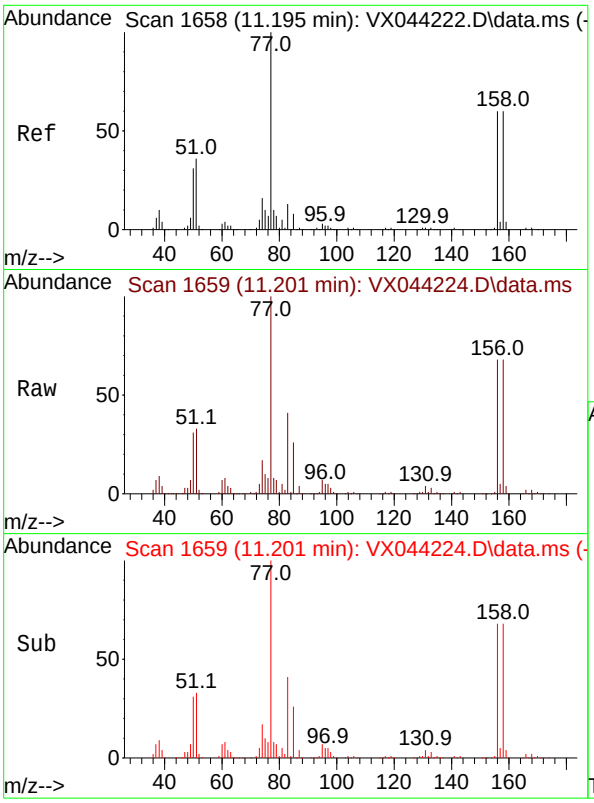


#76
1,2,3-Trichloropropane
Concen: 194.277 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 400724

Ion	Ratio	Lower	Upper
75	100		
77	32.4	20.9	62.7



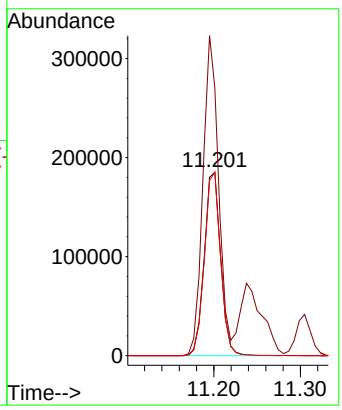


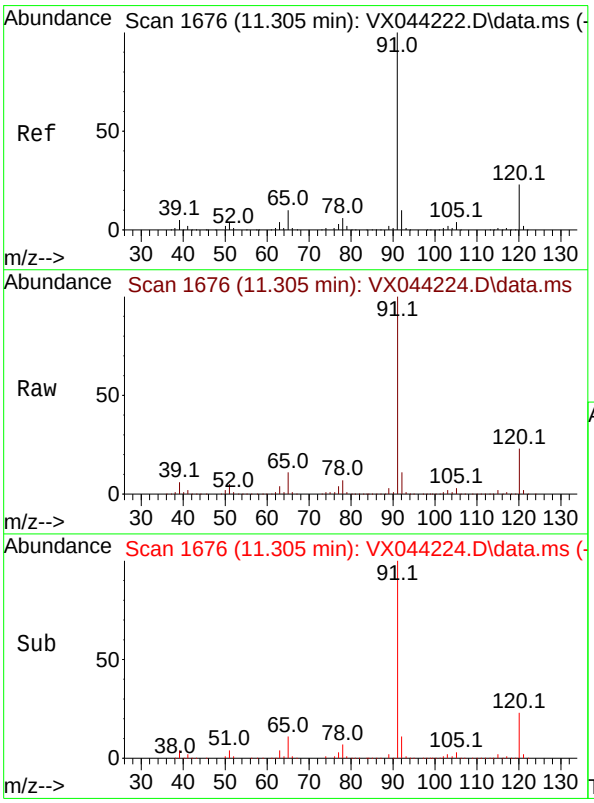
#77
Bromobenzene
Concen: 144.584 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 243975

Ion	Ratio	Lower	Upper
156	100		
77	165.5	82.6	247.8
158	98.2	48.8	146.4

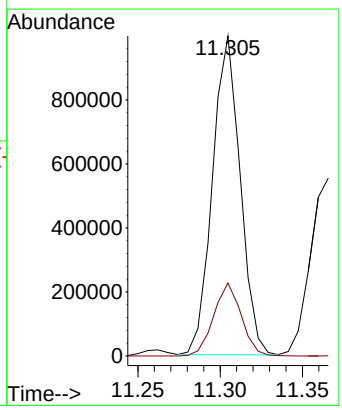


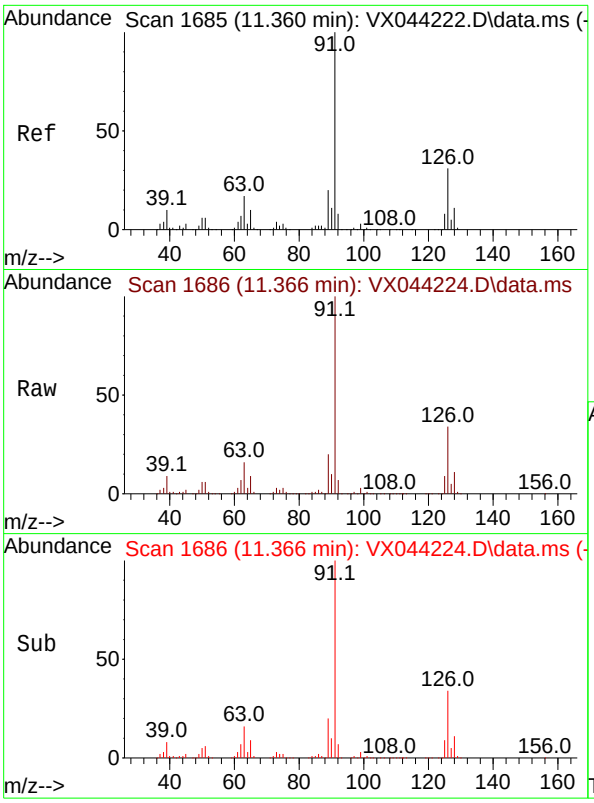


#78
n-propylbenzene
Concen: 151.637 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 1166255

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.0	33.0



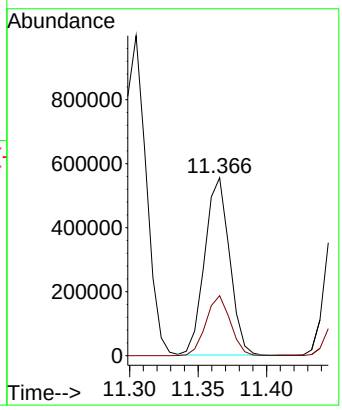


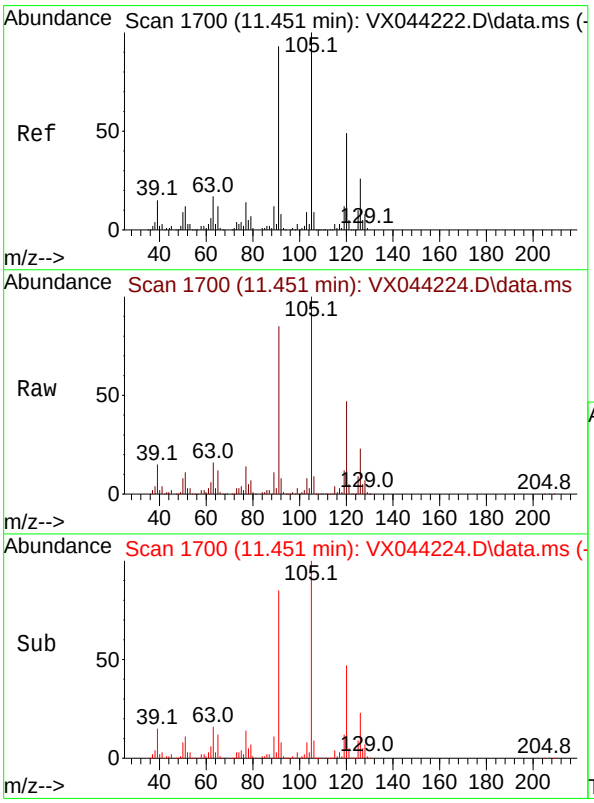
#79
2-Chlorotoluene
Concen: 140.866 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 700673

Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.4	49.1

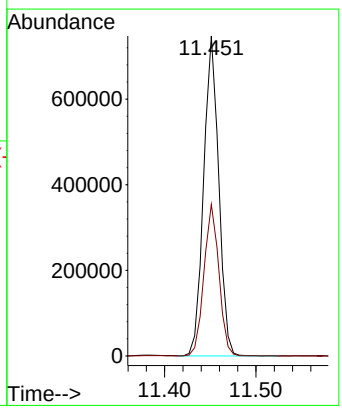


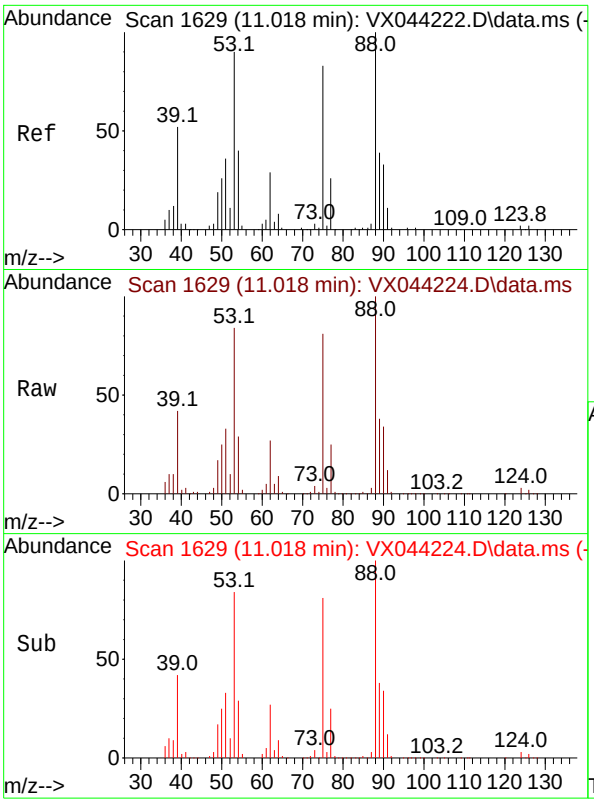


#80
1,3,5-Trimethylbenzene
Concen: 147.824 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:105 Resp: 853042

Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.8	71.4



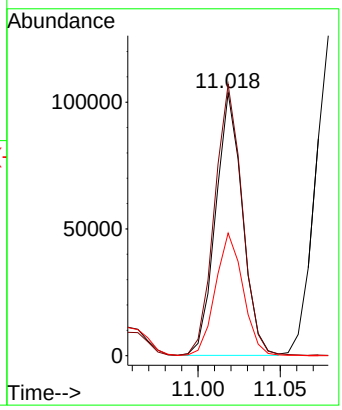


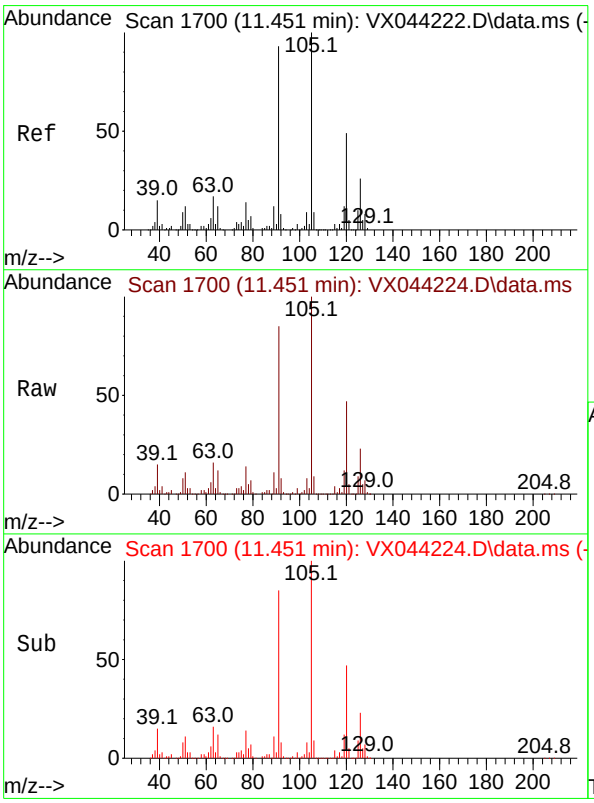
#81
trans-1,4-Dichloro-2-butene
Concen: 152.670 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 117263

Ion	Ratio	Lower	Upper
75	100		
53	107.3	93.6	140.4
89	48.2	37.3	55.9

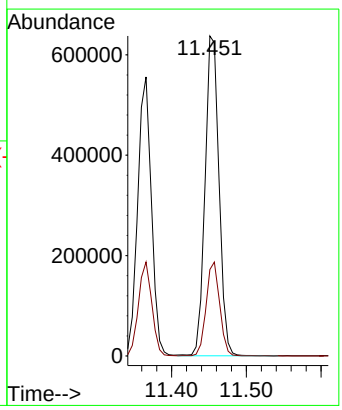


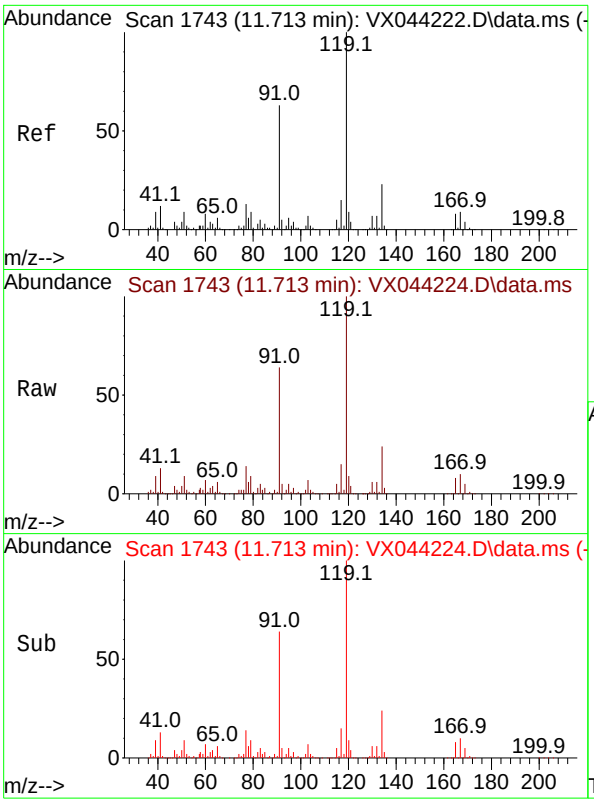


#82
4-Chlorotoluene
Concen: 149.831 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 825278

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.5	43.5



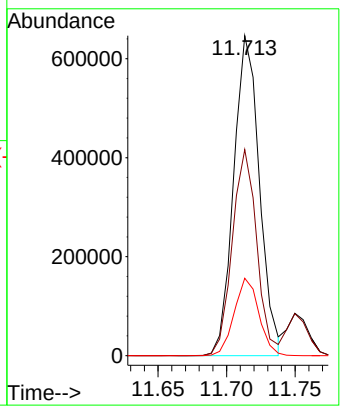


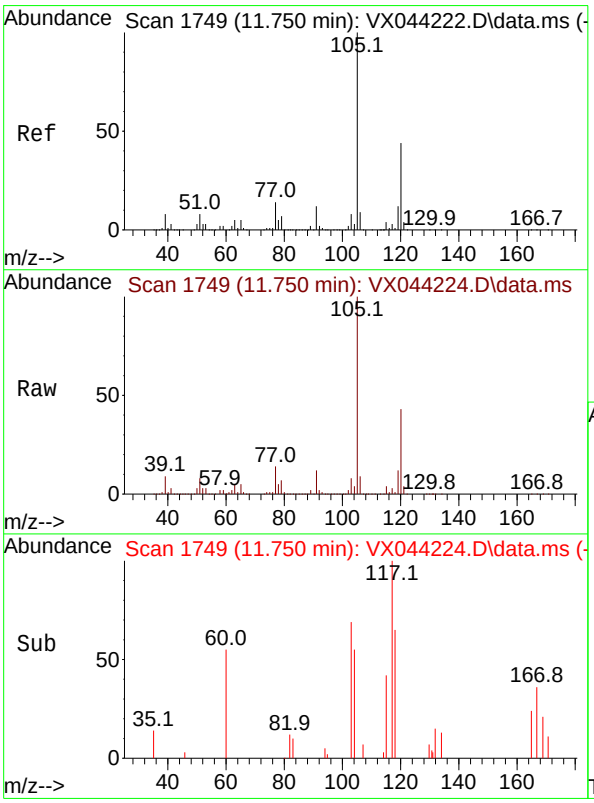
#83
tert-Butylbenzene
Concen: 148.495 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 846864

Ion	Ratio	Lower	Upper
119	100		
91	61.3	30.9	92.5
134	23.3	11.5	34.4

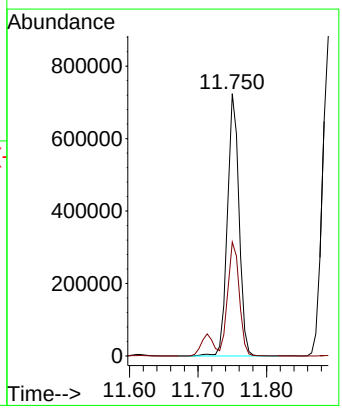


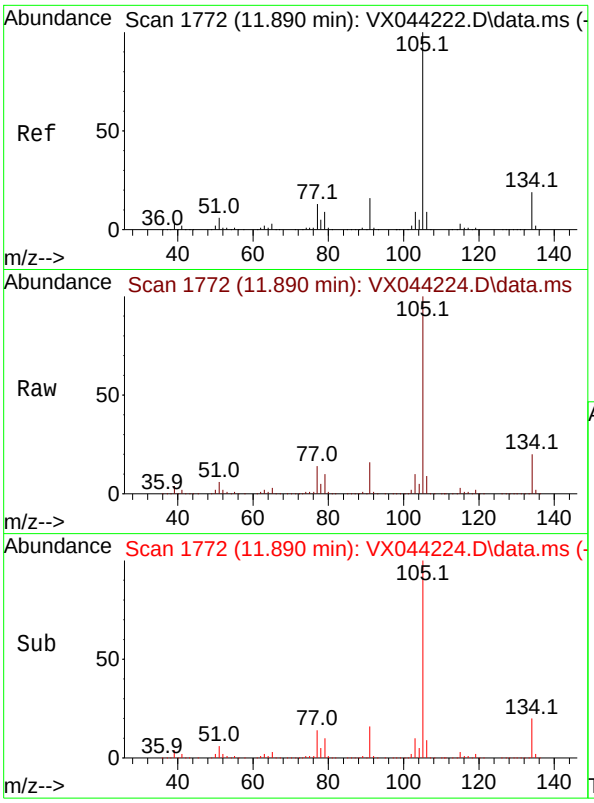


#84
1,2,4-Trimethylbenzene
Concen: 149.414 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:105 Resp: 846771

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.7	65.1



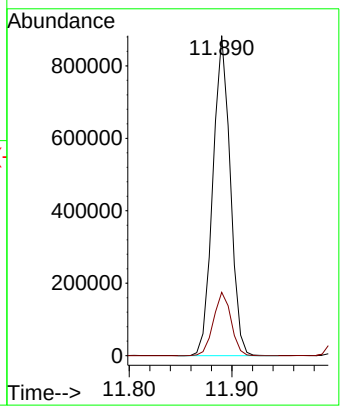


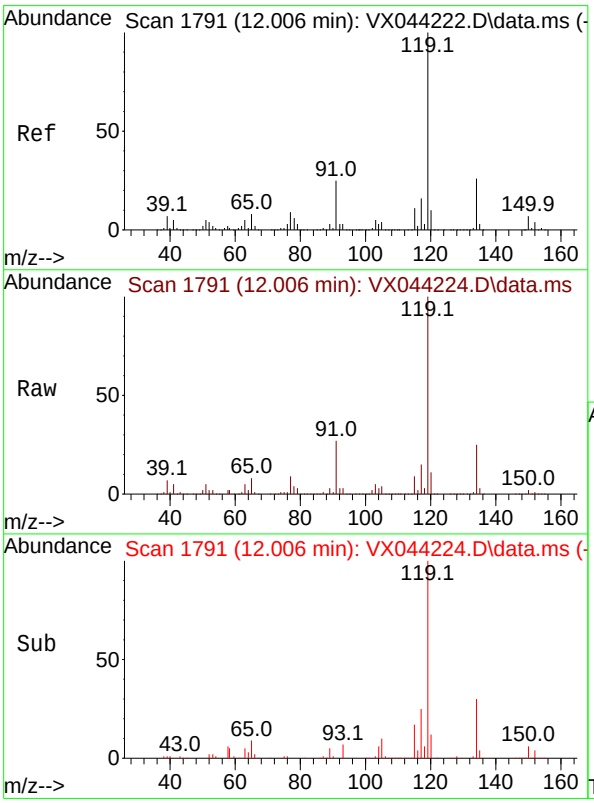
#85
sec-Butylbenzene
Concen: 149.409 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1034419

Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.8	29.4

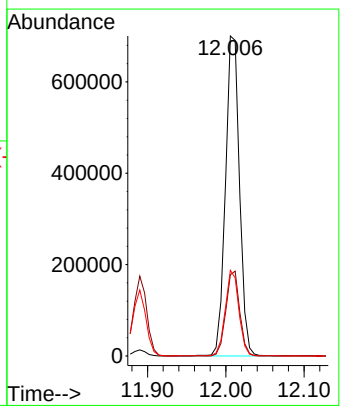


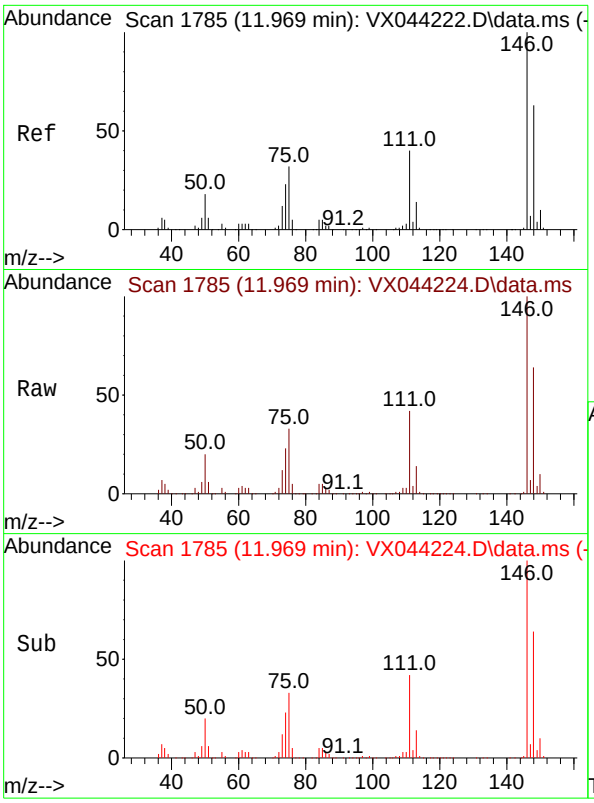


#86
p-Isopropyltoluene
Concen: 151.944 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:119 Resp: 875562

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	25.7	13.0	39.0



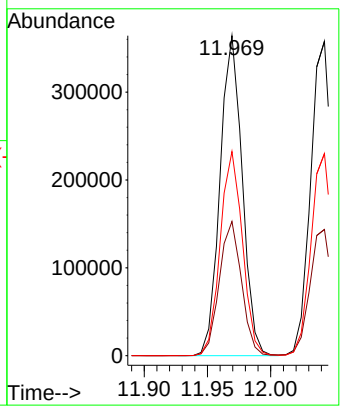


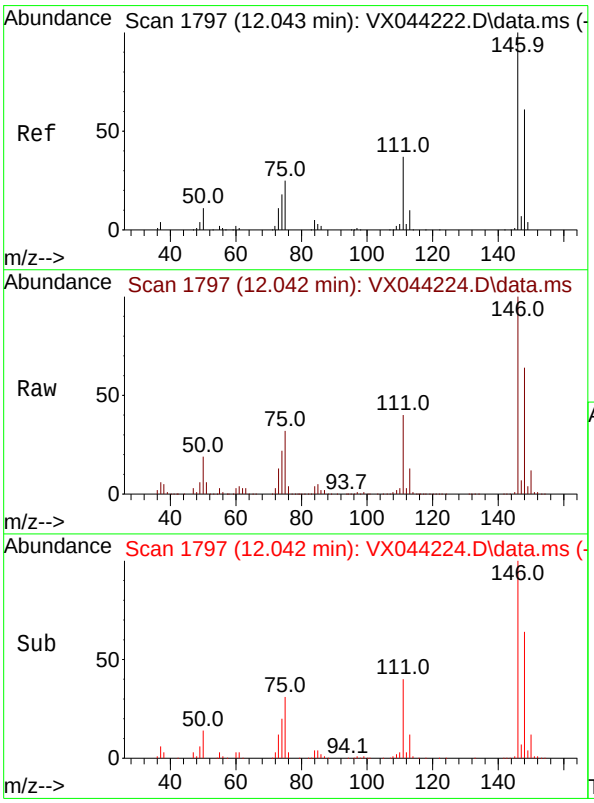
#87
1,3-Dichlorobenzene
Concen: 150.575 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 443826

Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.4	64.2
148	64.0	31.7	95.1

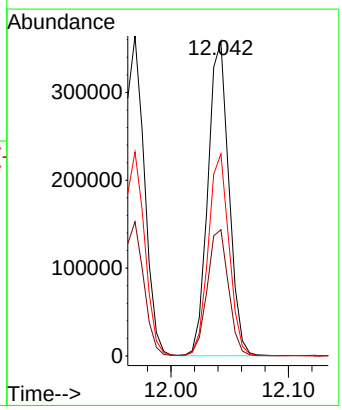


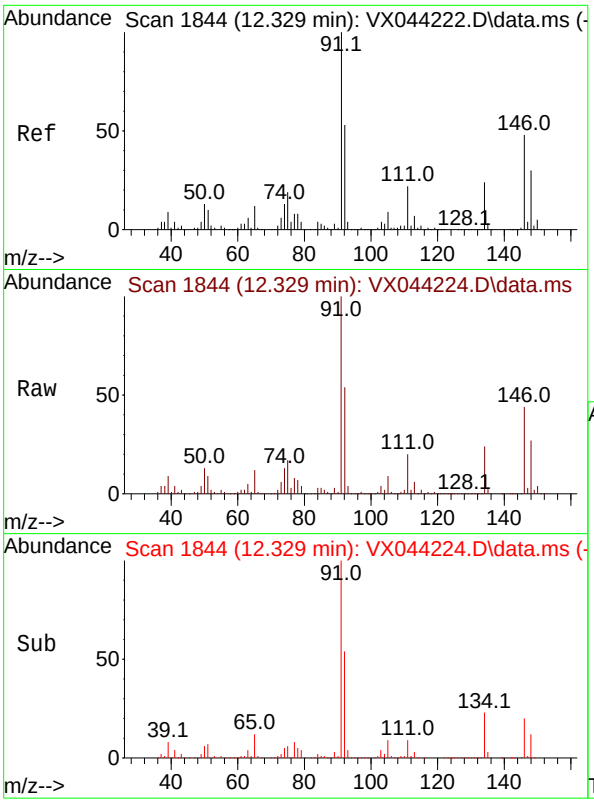


#88
1,4-Dichlorobenzene
Concen: 146.058 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:146 Resp: 442556

Ion	Ratio	Lower	Upper
146	100		
111	40.8	21.0	63.0
148	63.7	32.3	96.8



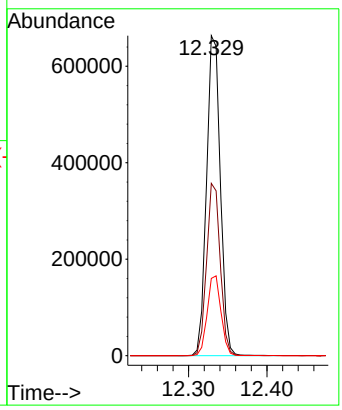


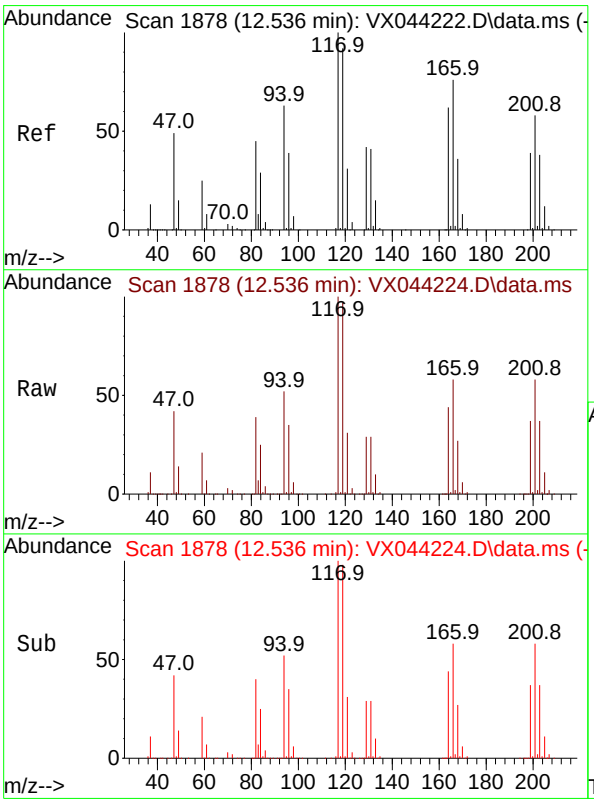
#89
n-Butylbenzene
Concen: 166.836 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 808399

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.6	79.7
134	25.0	12.6	37.8

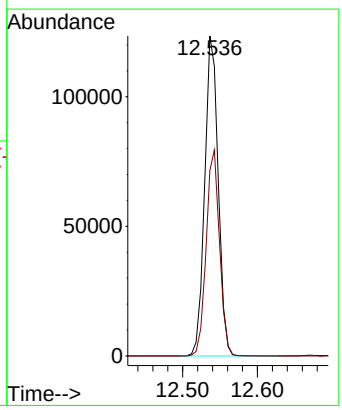


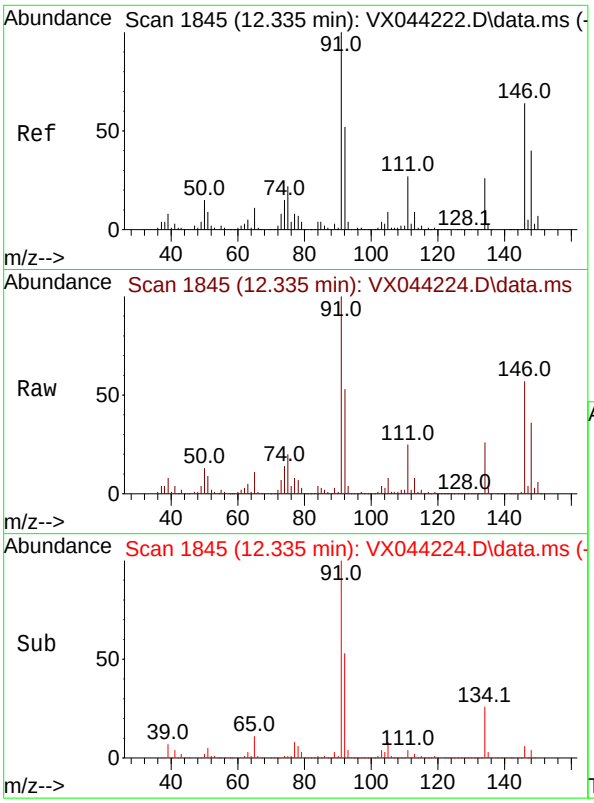


#90
Hexachloroethane
Concen: 183.942 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:117 Resp: 154726

Ion	Ratio	Lower	Upper
117	100		
201	63.5	31.4	94.2



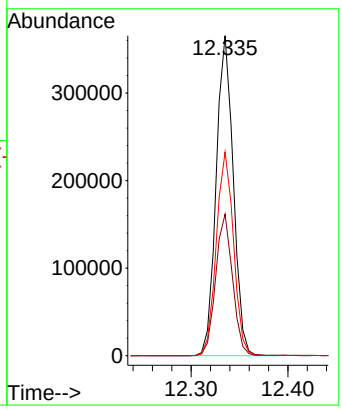


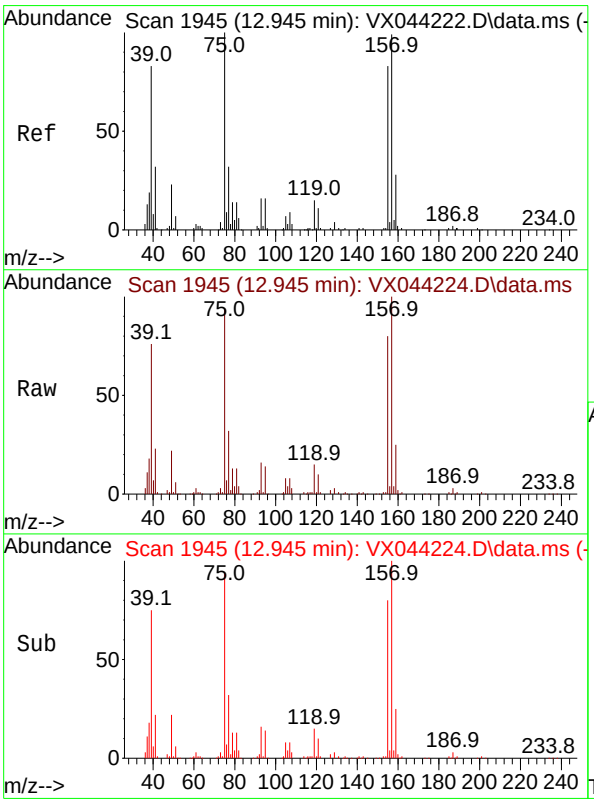
#91
1,2-Dichlorobenzene
Concen: 146.357 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 447931

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.4	64.3
148	64.2	31.6	95.0

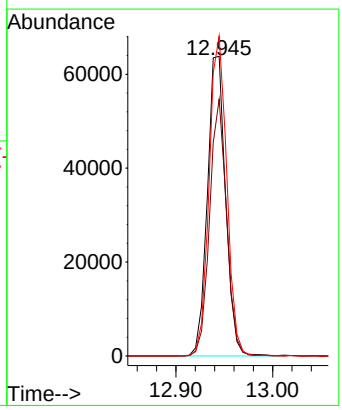


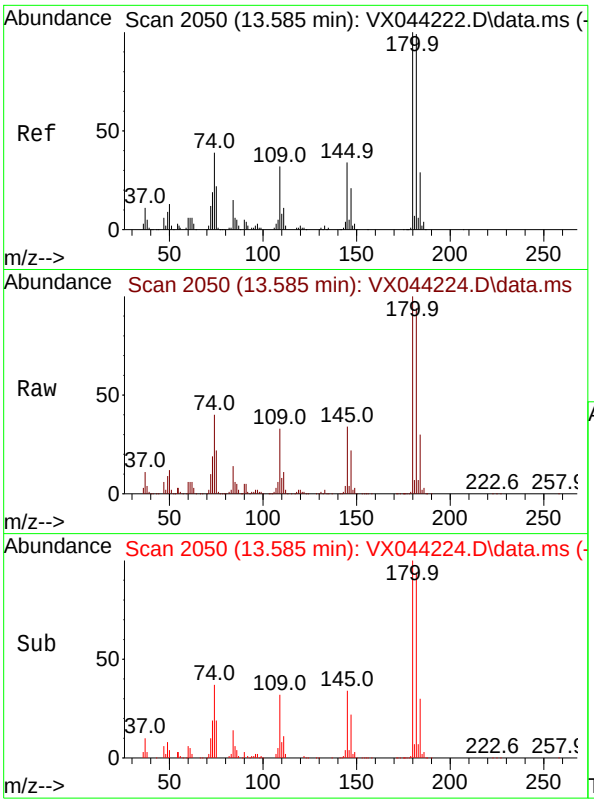


#92
1,2-Dibromo-3-Chloropropane
Concen: 178.106 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 83565

Ion	Ratio	Lower	Upper
75	100		
155	79.8	38.1	114.3
157	103.3	47.2	141.6



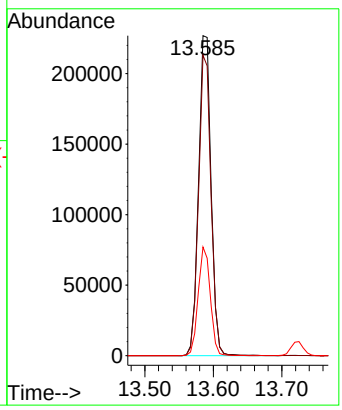


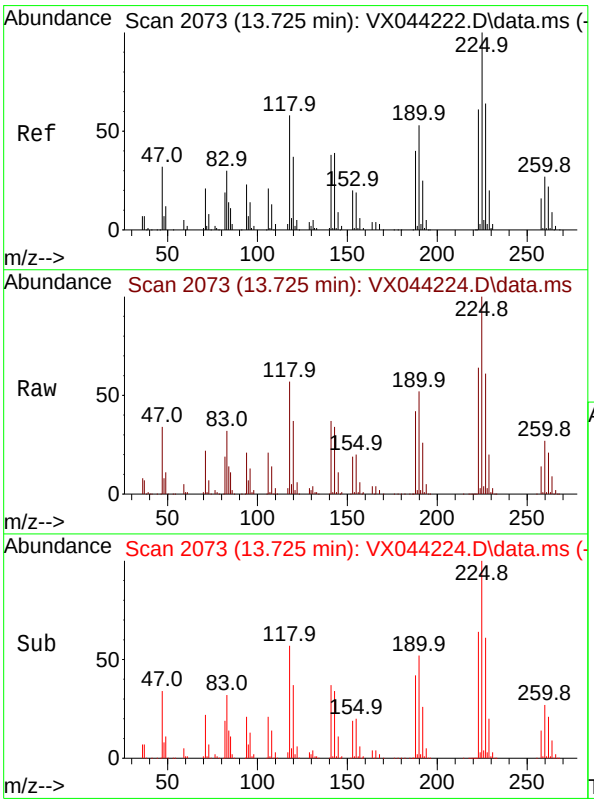
#93
1,2,4-Trichlorobenzene
Concen: 171.952 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 288519

Ion	Ratio	Lower	Upper
180	100		
182	93.3	48.0	144.2
145	33.0	16.6	49.7

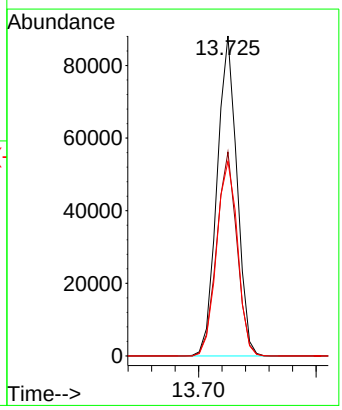


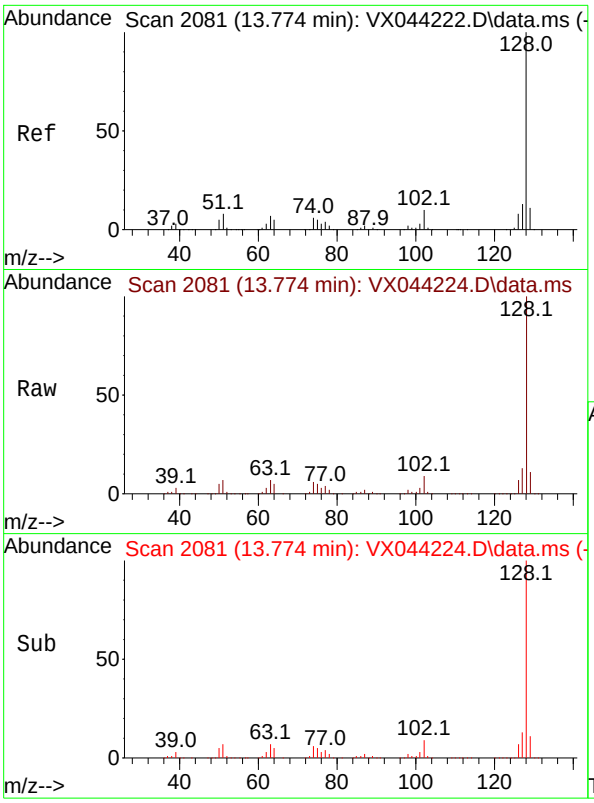


#94
Hexachlorobutadiene
Concen: 154.036 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:225 Resp: 103961

Ion	Ratio	Lower	Upper
225	100		
223	64.7	30.8	92.4
227	64.0	32.1	96.3



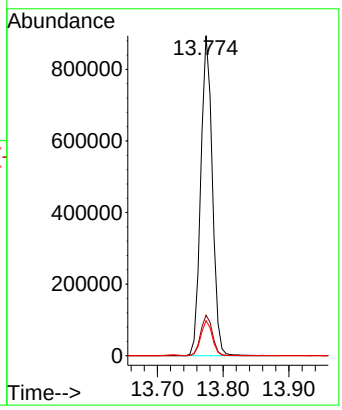


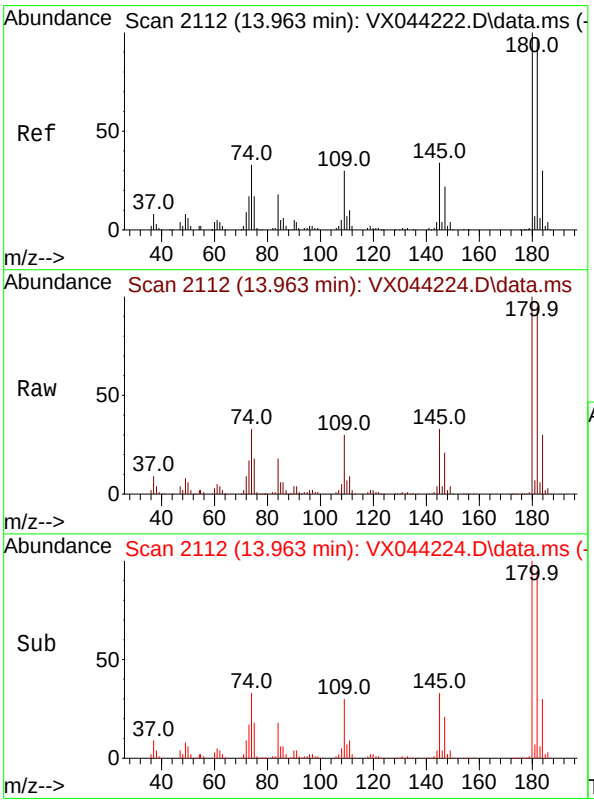
#95
Naphthalene
Concen: 167.187 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 1094997

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.8	9.0	13.4

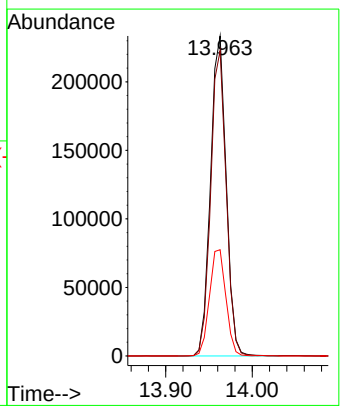




#96
1,2,3-Trichlorobenzene
Concen: 165.064 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:180 Resp: 293760

Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.0	144.0
145	34.9	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	134203	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	237295	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	210572	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	99879	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	107407	45.646	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 91.300%			
35) Dibromofluoromethane	5.379	113	77619	47.228	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.460%			
50) Toluene-d8	8.647	98	271508	48.968	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.940%			
62) 4-Bromofluorobenzene	11.079	95	97061	50.098	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	104566	50.390	ug/l	98
3) Chloromethane	1.294	50	92633	46.681	ug/l	98
4) Vinyl Chloride	1.374	62	97702	47.260	ug/l	97
5) Bromomethane	1.593	94	67357	45.926	ug/l	99
6) Chloroethane	1.666	64	62821	48.801	ug/l	100
7) Trichlorofluoromethane	1.867	101	203619	50.311	ug/l	99
8) Diethyl Ether	2.136	74	63075	45.658	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.312	101	82498	50.374	ug/l	99
10) Methyl Iodide	2.441	142	100043	46.349	ug/l	100
11) Tert butyl alcohol	3.001	59	77494	233.680	ug/l	100
12) 1,1-Dichloroethene	2.306	96	74177	49.311	ug/l	99
13) Acrolein	2.233	56	111927	233.162	ug/l	97
14) Allyl chloride	2.654	41	124635	49.744	ug/l	100
15) Acrylonitrile	3.068	53	221037	240.620	ug/l	100
16) Acetone	2.386	43	260267	271.312	ug/l	98
17) Carbon Disulfide	2.501	76	149824	52.397	ug/l	98
18) Methyl Acetate	2.709	43	115569	46.725	ug/l	93
19) Methyl tert-butyl Ether	3.117	73	281413	47.940	ug/l	99
20) Methylene Chloride	2.782	84	83188	46.170	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	77471	48.459	ug/l	98
22) Diisopropyl ether	3.763	45	264732	46.922	ug/l	98
23) Vinyl Acetate	3.721	43	1185779	258.510	ug/l	99
24) 1,1-Dichloroethane	3.605	63	151134	48.056	ug/l	98
25) 2-Butanone	4.562	43	346052	253.747	ug/l	100
26) 2,2-Dichloropropane	4.465	77	140196	54.872	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	94838	46.709	ug/l	99
28) Bromochloromethane	4.891	49	69139	44.832	ug/l	99
29) Tetrahydrofuran	5.007	42	208362	238.031	ug/l	98
30) Chloroform	5.092	83	163372	46.235	ug/l	94
31) Cyclohexane	5.458	56	125567	49.443	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	146348	49.895	ug/l	99
36) 1,1-Dichloropropene	5.684	75	106889	50.314	ug/l	98
37) Ethyl Acetate	4.721	43	137017	52.176	ug/l	99
38) Carbon Tetrachloride	5.672	117	118390	51.763	ug/l	97
39) Methylcyclohexane	7.373	83	139077	54.761	ug/l	99
40) Benzene	6.031	78	316391	49.052	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	68251	48.945	ug/l		98
42) 1,2-Dichloroethane	6.086	62	132744	49.960	ug/l		100
43) Isopropyl Acetate	6.342	43	211889	51.624	ug/l		100
44) Trichloroethene	7.123	130	80008	49.741	ug/l		98
45) 1,2-Dichloropropane	7.427	63	78321	47.528	ug/l		98
46) Dibromomethane	7.574	93	65491	51.227	ug/l		99
47) Bromodichloromethane	7.818	83	116783	52.893	ug/l		99
48) Methyl methacrylate	7.690	41	101318	50.852	ug/l		98
49) 1,4-Dioxane	7.665	88	26140	791.313	ug/l	#	71
51) 4-Methyl-2-Pentanone	8.574	43	673069	255.038	ug/l		99
52) Toluene	8.714	92	199281	49.199	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	120696	50.864	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	128875	53.607	ug/l		96
55) 1,1,2-Trichloroethane	9.153	97	81362	50.562	ug/l		96
56) Ethyl methacrylate	9.116	69	134357	52.890	ug/l		98
57) 1,3-Dichloropropane	9.305	76	137705	49.165	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	332599	259.586	ug/l		100
59) 2-Hexanone	9.433	43	519476	271.943	ug/l		99
60) Dibromochloromethane	9.518	129	83515	49.073	ug/l		99
61) 1,2-Dibromoethane	9.610	107	85024	51.909	ug/l		97
64) Tetrachloroethene	9.269	164	66669	47.702	ug/l		98
65) Chlorobenzene	10.079	112	217180	48.133	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	74531	51.396	ug/l		100
67) Ethyl Benzene	10.189	91	385605	49.461	ug/l		99
68) m/p-Xylenes	10.299	106	285774	99.896	ug/l		99
69) o-Xylene	10.640	106	144001	49.750	ug/l		98
70) Styrene	10.652	104	239508	51.617	ug/l		98
71) Bromoform	10.799	173	50972	50.269	ug/l	#	99
73) Isopropylbenzene	10.963	105	374769	49.014	ug/l		99
74) N-amyl acetate	10.841	43	183763	52.003	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	126615	47.676	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	138398	62.060	ug/l		85
77) Bromobenzene	11.195	156	87767	47.335	ug/l		99
78) n-propylbenzene	11.305	91	429443	50.816	ug/l		99
79) 2-Chlorotoluene	11.366	91	259860	47.546	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	313435	49.431	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	37038	47.861	ug/l		97
82) 4-Chlorotoluene	11.451	91	297641	49.178	ug/l		100
83) tert-Butylbenzene	11.713	119	309463	49.384	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	313433	50.333	ug/l		100
85) sec-Butylbenzene	11.890	105	381109	50.097	ug/l		100
86) p-Isopropyltoluene	12.006	119	320882	50.678	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	159094	49.122	ug/l		98
88) 1,4-Dichlorobenzene	12.042	146	160742	48.280	ug/l		99
89) n-Butylbenzene	12.329	91	283284	53.207	ug/l		99
90) Hexachloroethane	12.536	117	48734	52.727	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	160039	47.589	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	26738	51.864	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	99449	53.940	ug/l		98
94) Hexachlorobutadiene	13.725	225	37651	50.770	ug/l		98
95) Naphthalene	13.774	128	365781	50.827	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	100209	51.244	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

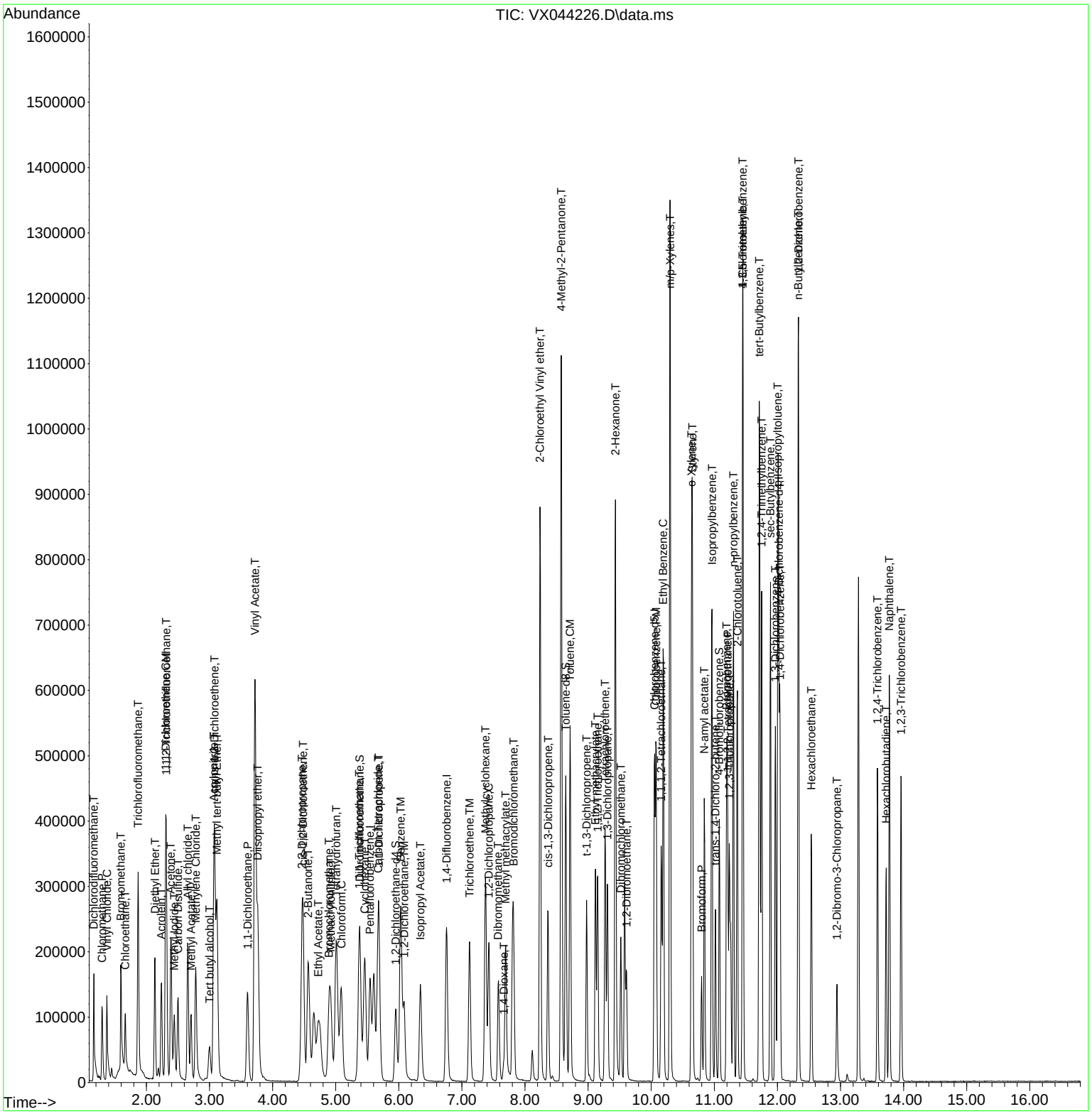
(#) = qualifier out of range (m) = manual integration (+) = signals summed

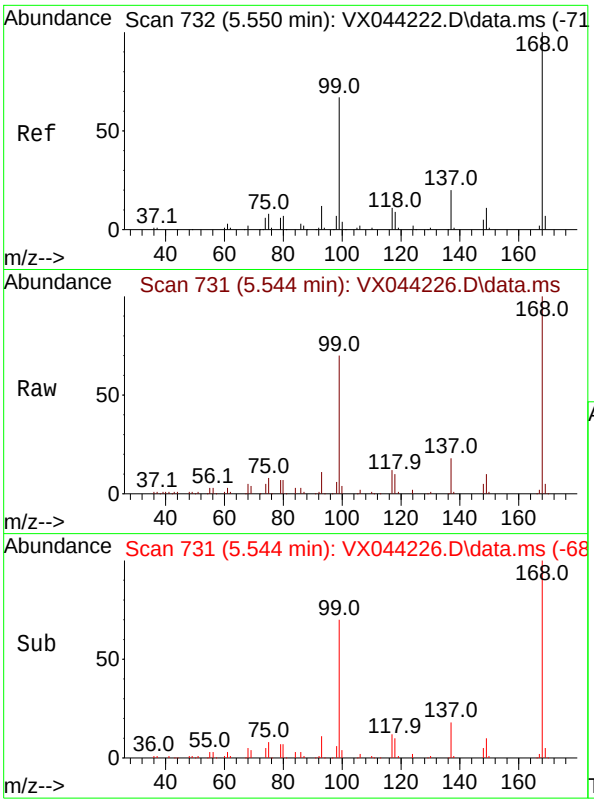
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



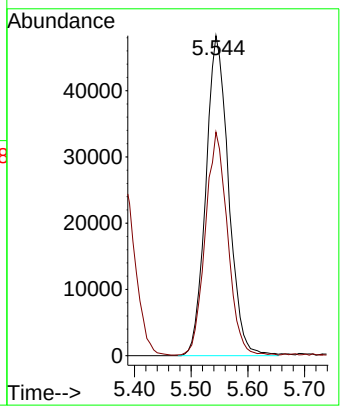


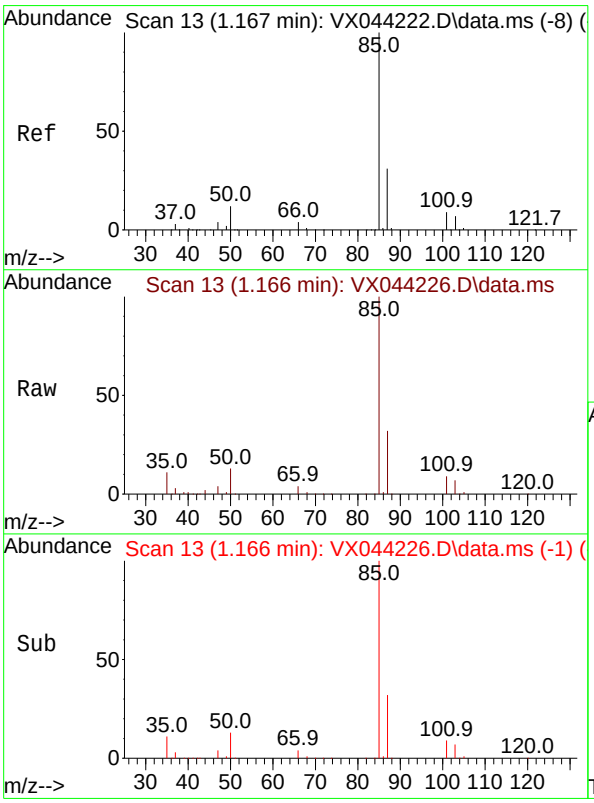
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:168 Resp: 134203

Ion	Ratio	Lower	Upper
168	100		
99	69.7	53.4	80.0

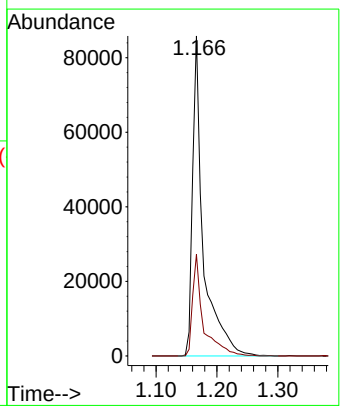


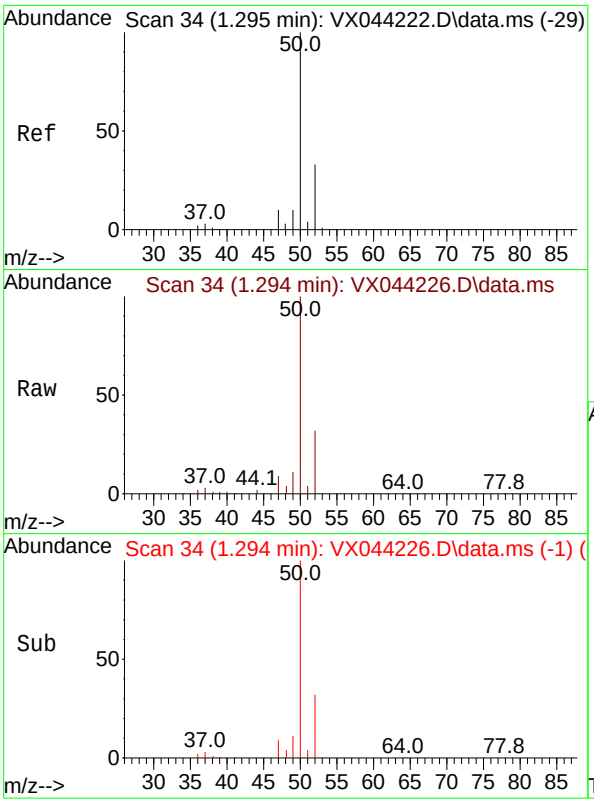


#2
Dichlorodifluoromethane
Concen: 50.390 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 85 Resp: 104566

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.4	46.4



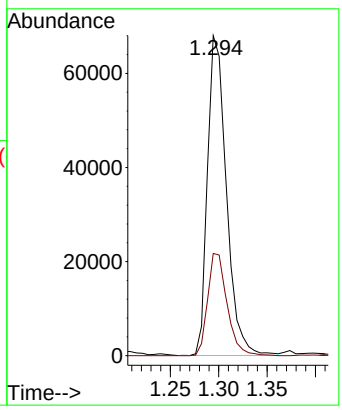


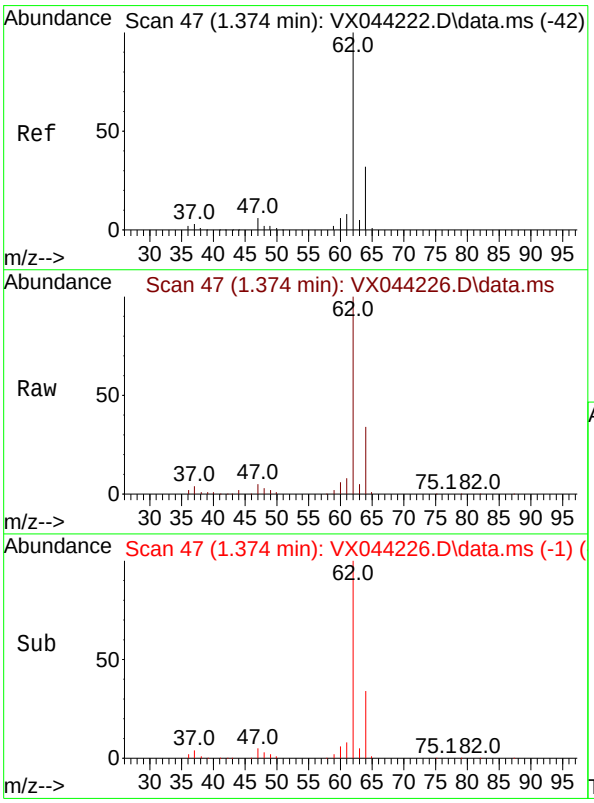
#3
Chloromethane
Concen: 46.681 ug/l
RT: 1.294 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 50 Resp: 92633

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.5	39.7

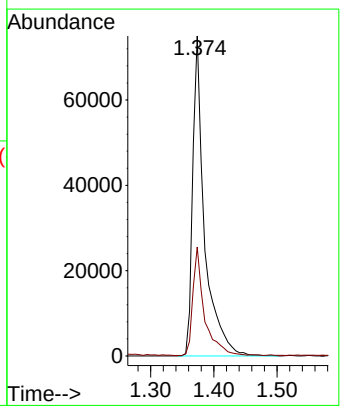


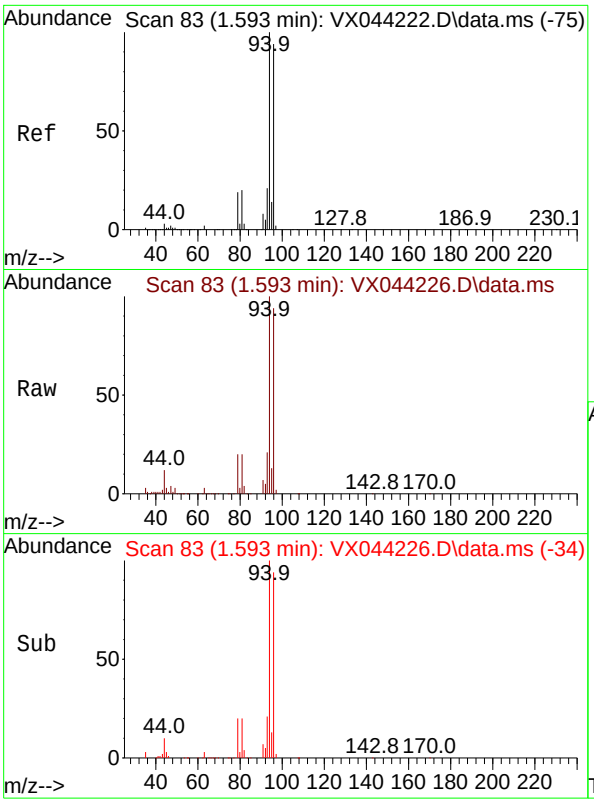


#4
Vinyl Chloride
Concen: 47.260 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 62 Resp: 97702

Ion	Ratio	Lower	Upper
62	100		
64	33.9	25.7	38.5



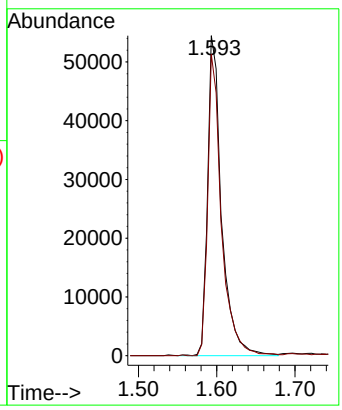


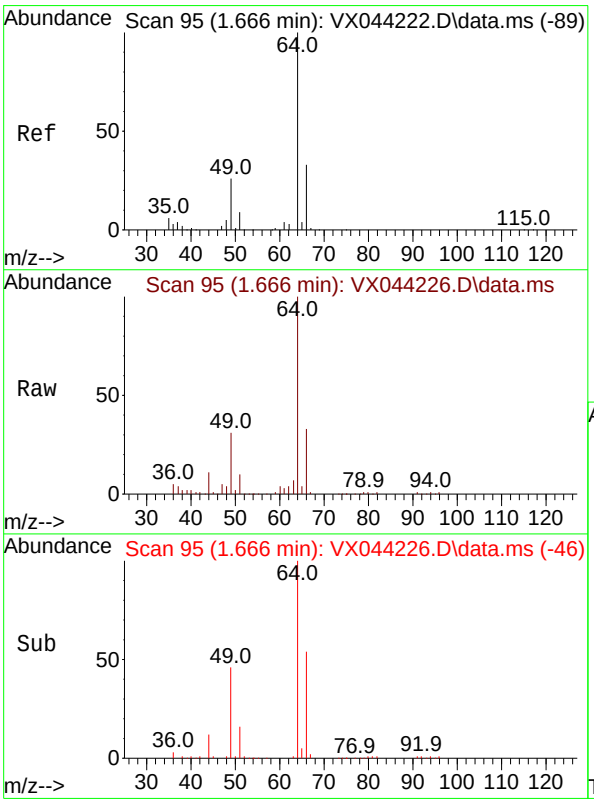
#5
Bromomethane
Concen: 45.926 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 94 Resp: 67357

Ion	Ratio	Lower	Upper
94	100		
96	94.2	74.9	112.3

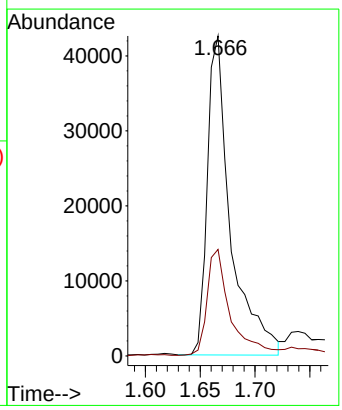


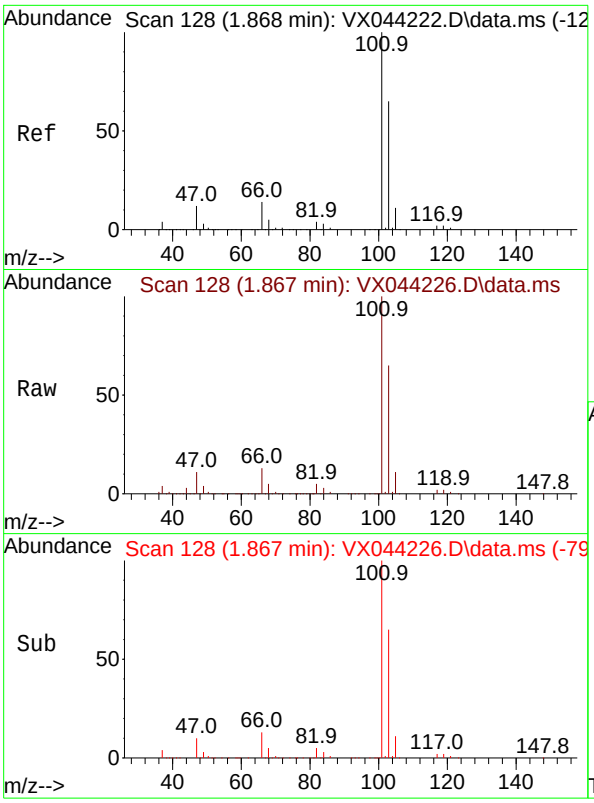


#6
Chloroethane
Concen: 48.801 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 64 Resp: 62821

Ion	Ratio	Lower	Upper
64	100		
66	33.2	26.6	39.8



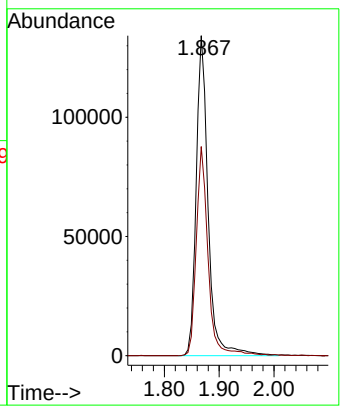


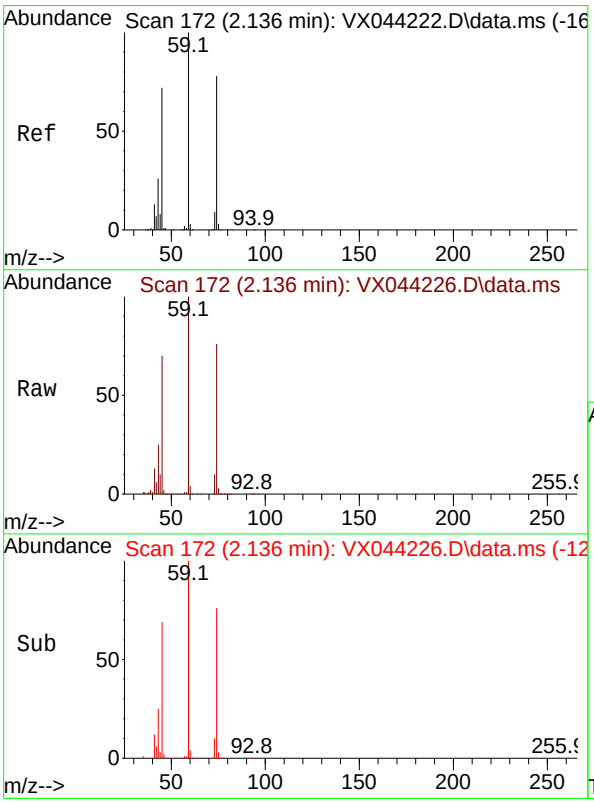
#7
Trichlorofluoromethane
Concen: 50.311 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:101 Resp: 203619

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.8	77.8

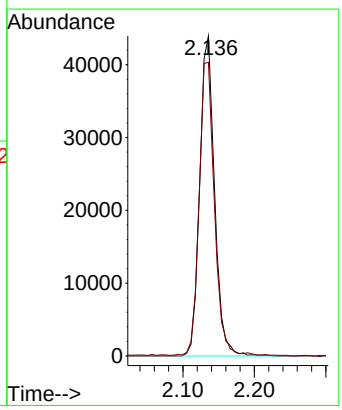


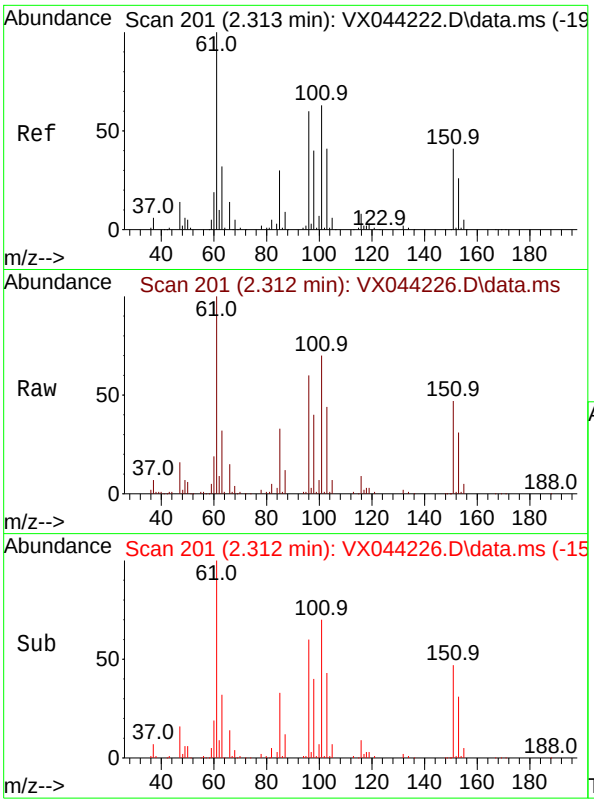


#8
Diethyl Ether
Concen: 45.658 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 74 Resp: 63075

Ion	Ratio	Lower	Upper
74	100		
45	94.4	48.4	145.0



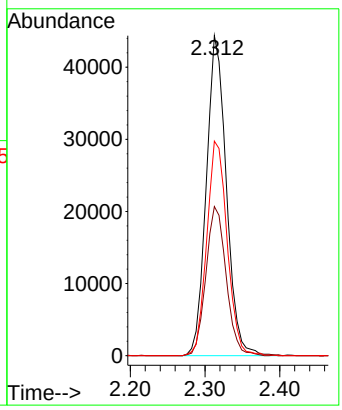


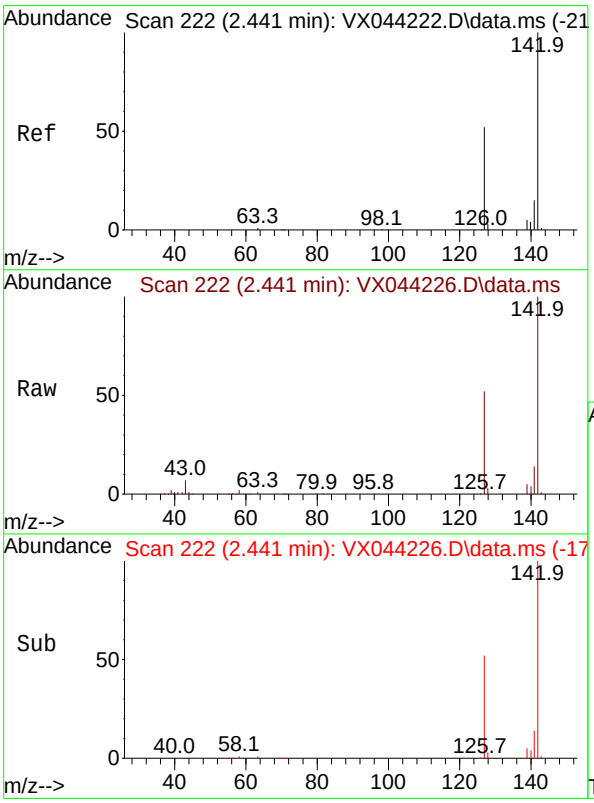
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.374 ug/l
RT: 2.312 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:101 Resp: 82498

Ion	Ratio	Lower	Upper
101	100		
85	47.1	38.5	57.7
151	68.6	55.8	83.6

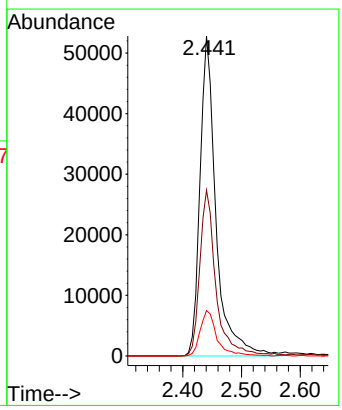


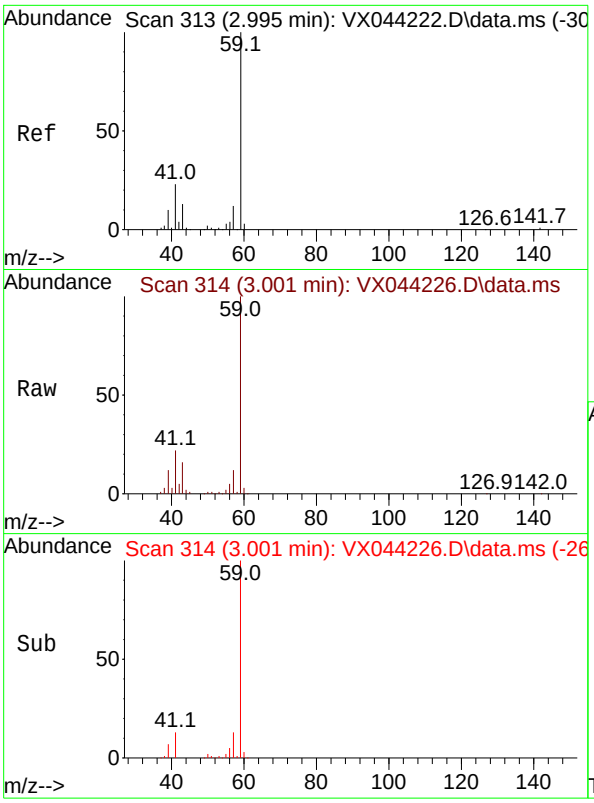


#10
Methyl Iodide
Concen: 46.349 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:142 Resp: 100043

Ion	Ratio	Lower	Upper
142	100		
127	52.3	41.8	62.8
141	14.8	11.5	17.3



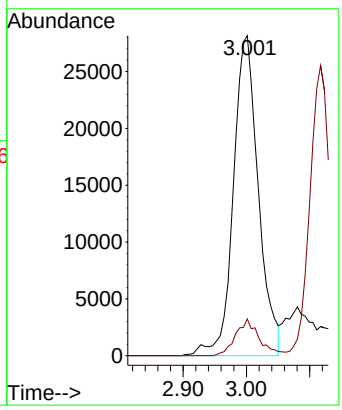


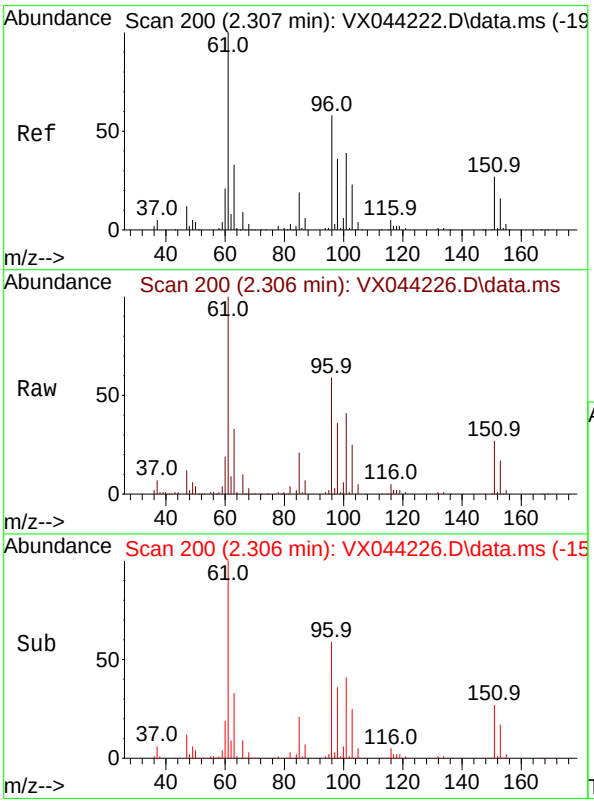
#11
Tert butyl alcohol
Concen: 233.680 ug/l
RT: 3.001 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 59 Resp: 77494

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.8	13.2

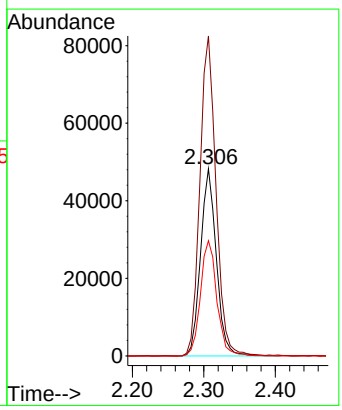


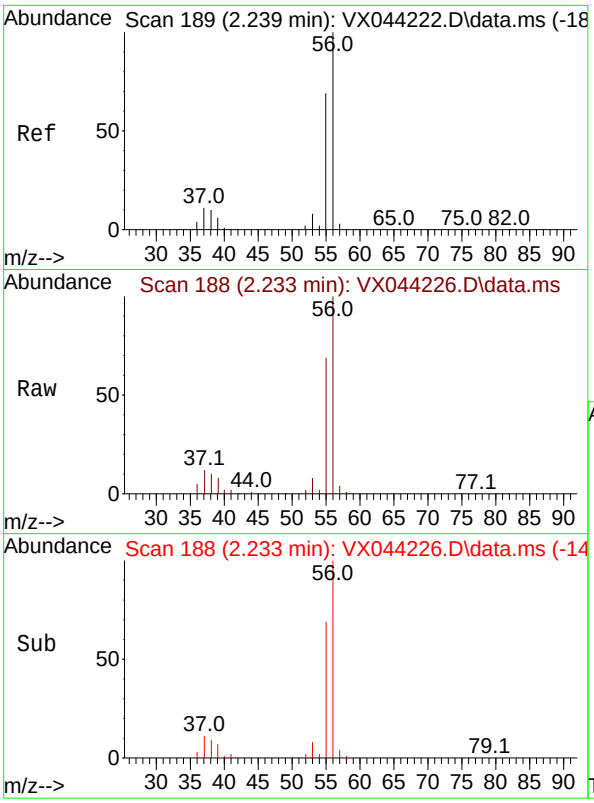


#12
1,1-Dichloroethene
Concen: 49.311 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 96 Resp: 74177

Ion	Ratio	Lower	Upper
96	100		
61	170.9	138.0	207.0
98	61.6	50.0	75.0



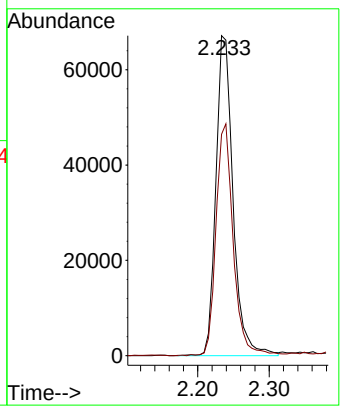


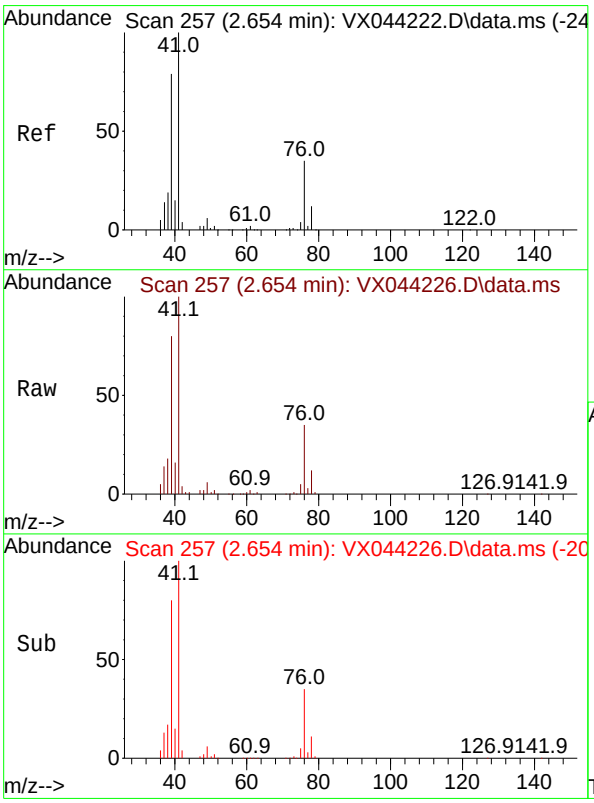
#13
Acrolein
Concen: 233.162 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 56 Resp: 111927

Ion	Ratio	Lower	Upper
56	100		
55	72.8	56.6	84.8

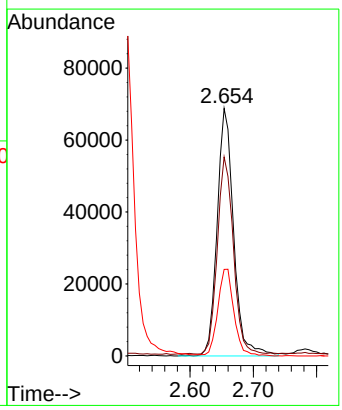


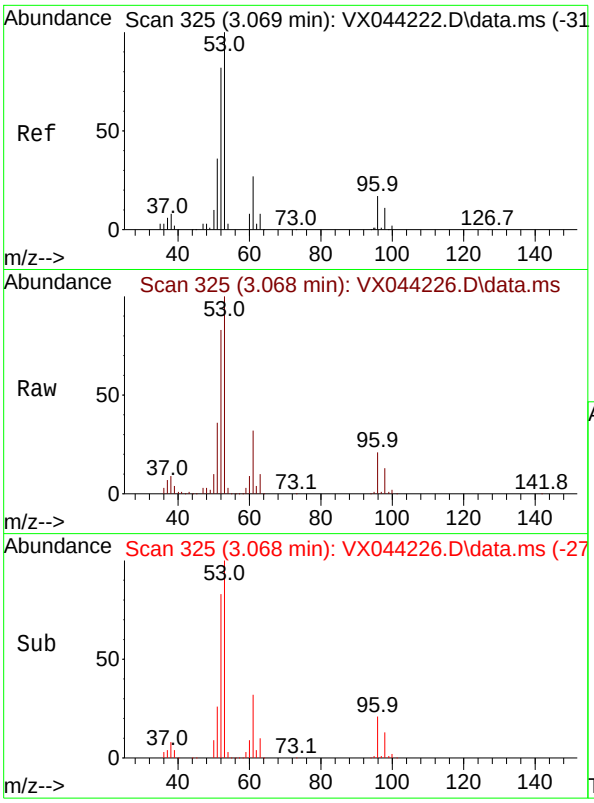


#14
Allyl chloride
Concen: 49.744 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 41 Resp: 124635

Ion	Ratio	Lower	Upper
41	100		
39	77.3	61.9	92.9
76	34.4	27.4	41.2



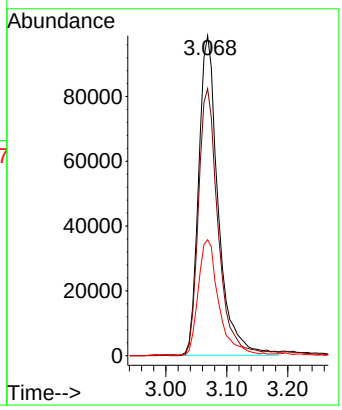


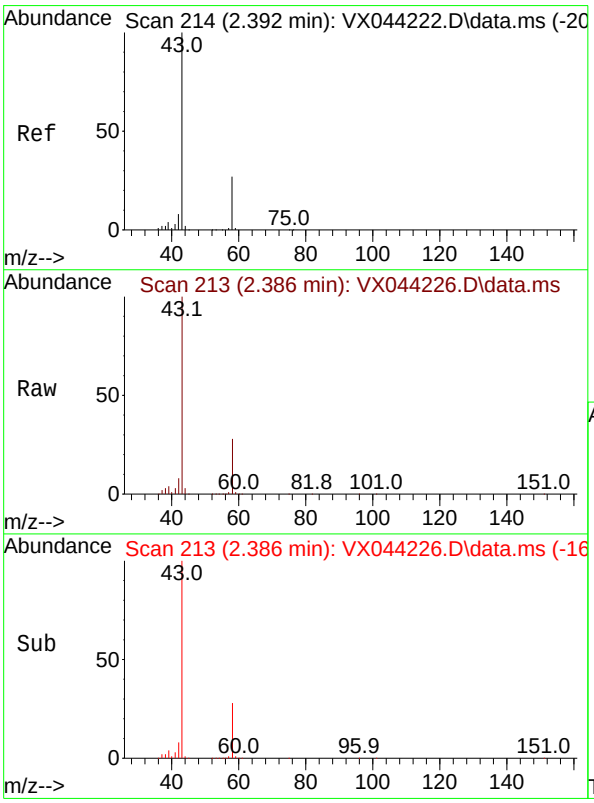
#15
Acrylonitrile
Concen: 240.620 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 53 Resp: 221037

Ion	Ratio	Lower	Upper
53	100		
52	84.3	67.4	101.0
51	37.6	30.3	45.5

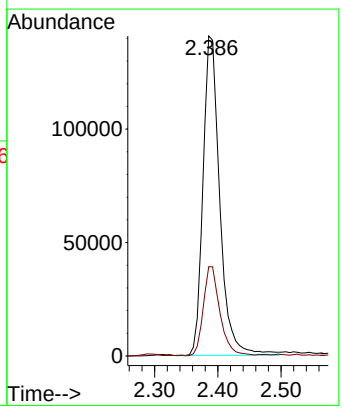


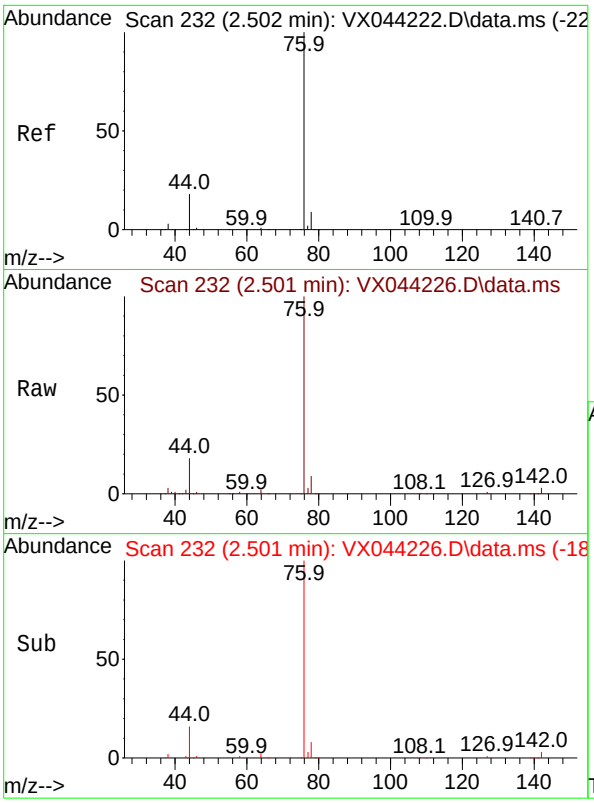


#16
Acetone
Concen: 271.312 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 260267

Ion	Ratio	Lower	Upper
43	100		
58	27.8	21.6	32.4



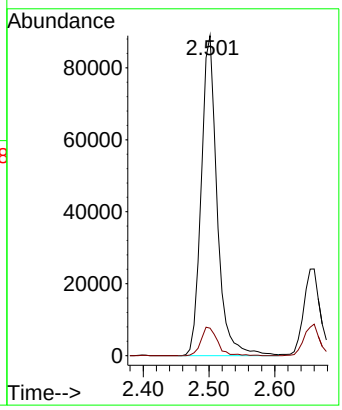


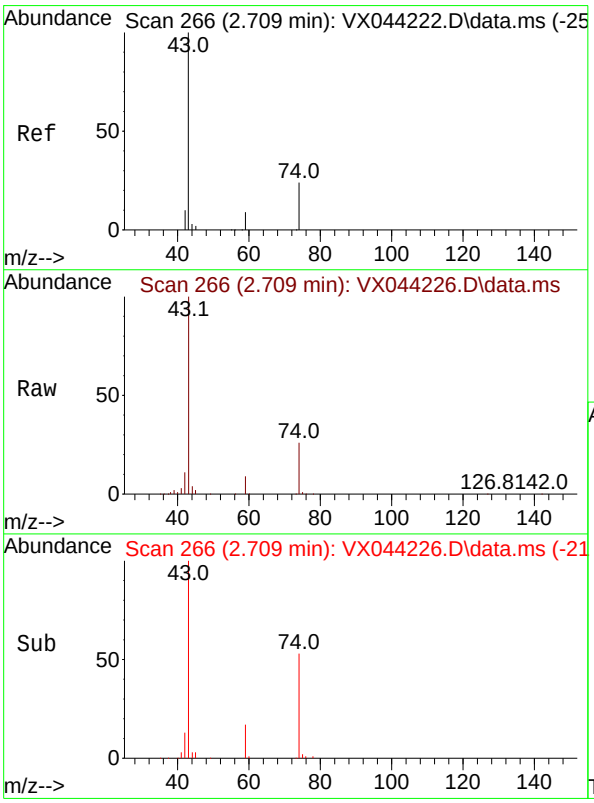
#17
Carbon Disulfide
Concen: 52.397 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 76 Resp: 149824

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.4	11.0

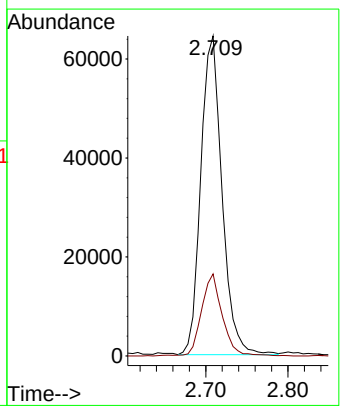


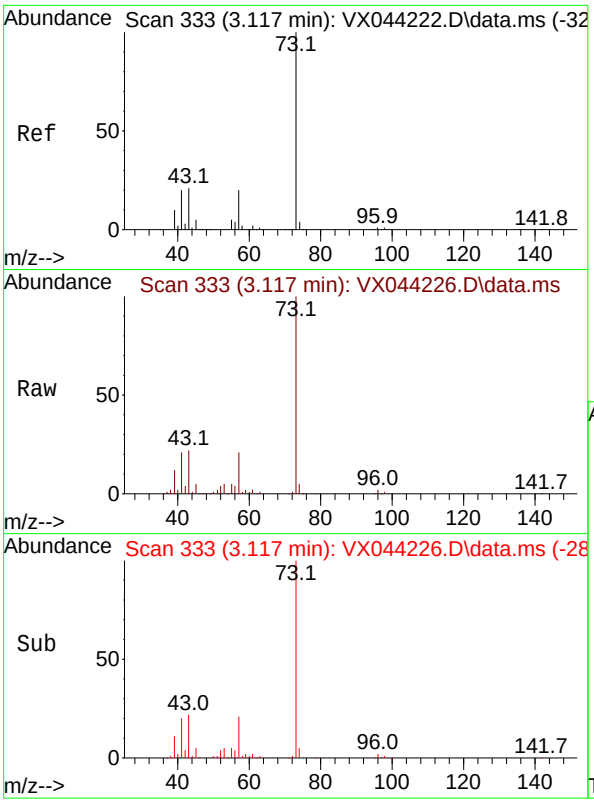


#18
Methyl Acetate
Concen: 46.725 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 115569

Ion	Ratio	Lower	Upper
43	100		
74	25.3	17.7	26.5



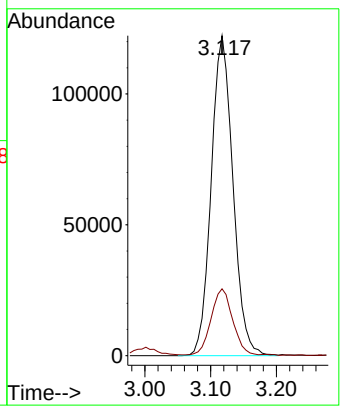


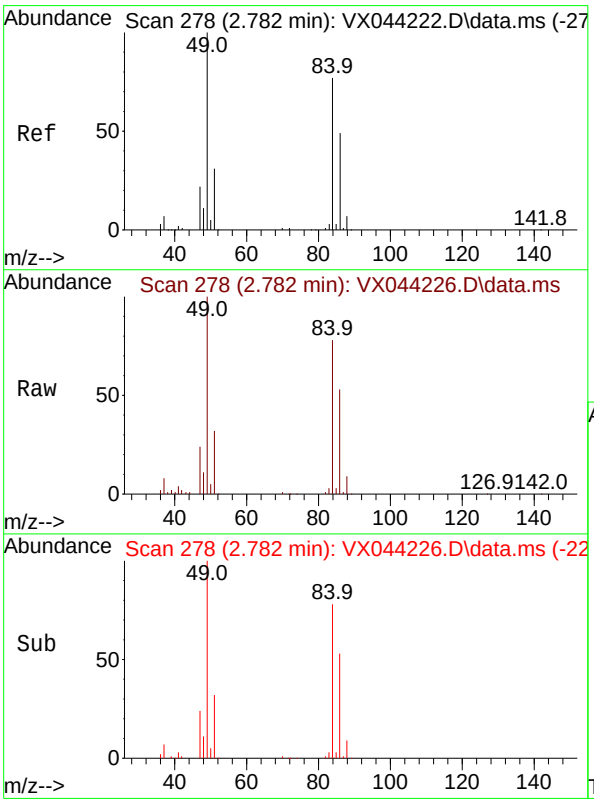
#19
Methyl tert-butyl Ether
Concen: 47.940 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 73 Resp: 281413

Ion	Ratio	Lower	Upper
73	100		
57	20.8	16.2	24.4

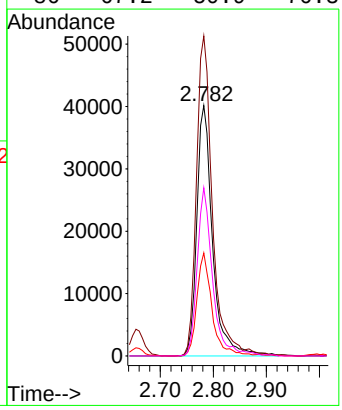


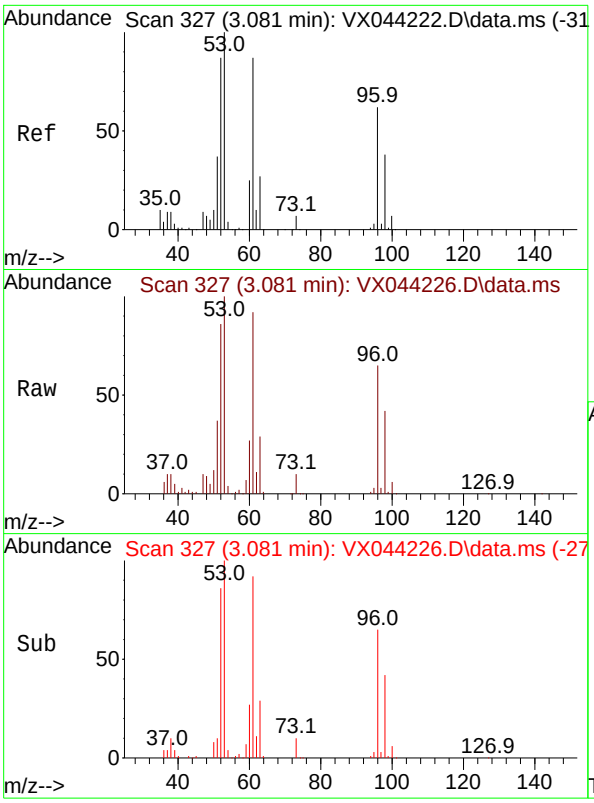


#20
Methylene Chloride
Concen: 46.170 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 84 Resp: 83188

Ion	Ratio	Lower	Upper
84	100		
49	127.6	104.2	156.4
51	41.1	32.2	48.4
86	67.2	50.9	76.3



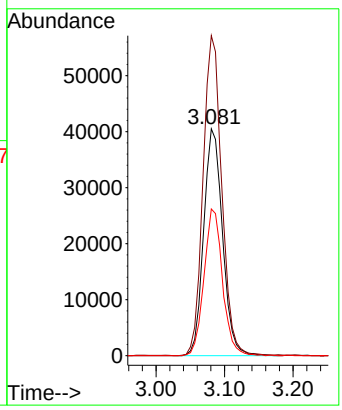


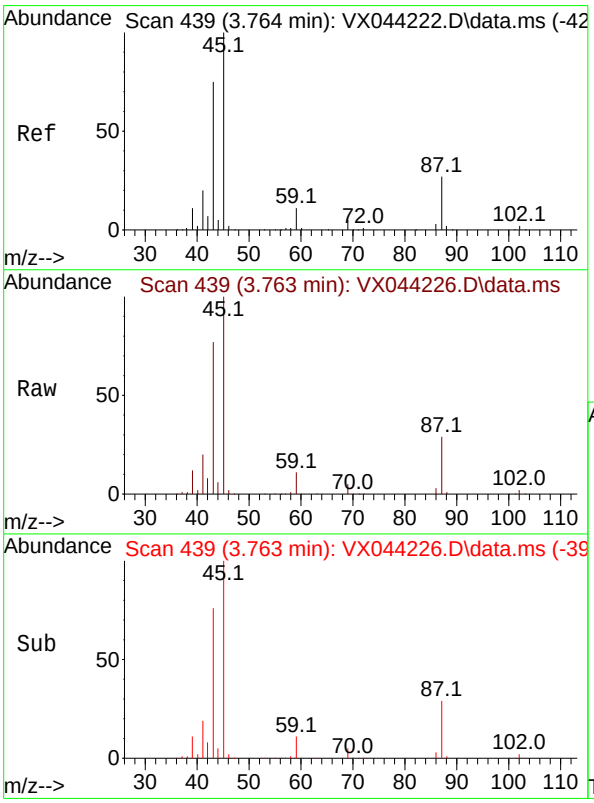
#21
trans-1,2-Dichloroethene
Concen: 48.459 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 96 Resp: 77471

Ion	Ratio	Lower	Upper
96	100		
61	141.0	112.0	168.0
98	64.7	48.8	73.2

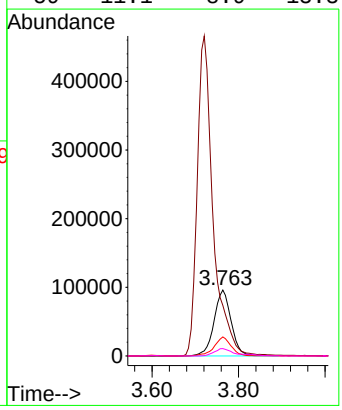


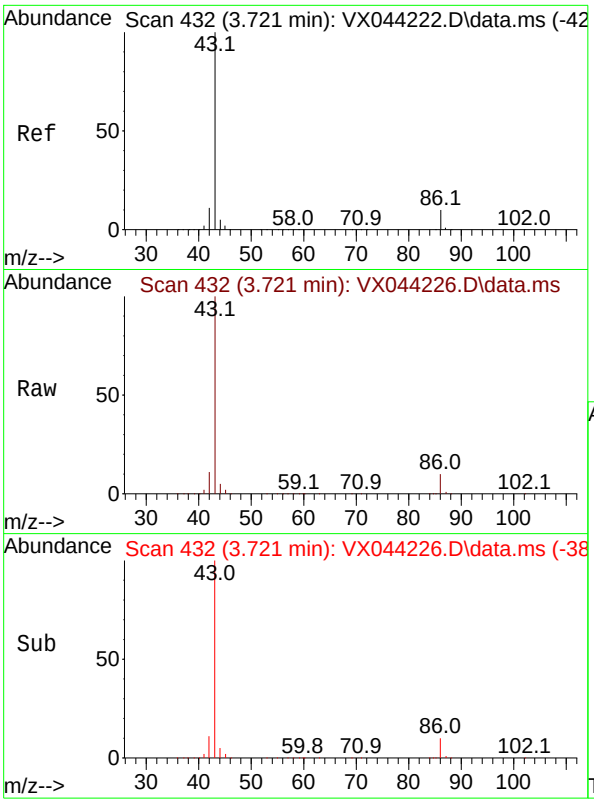


#22
Diisopropyl ether
Concen: 46.922 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 45 Resp: 264732

Ion	Ratio	Lower	Upper
45	100		
43	76.6	60.2	90.2
87	28.8	21.2	31.8
59	11.1	8.9	13.3



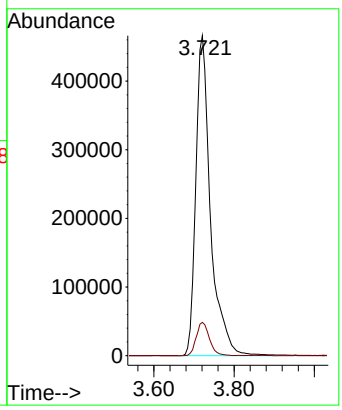


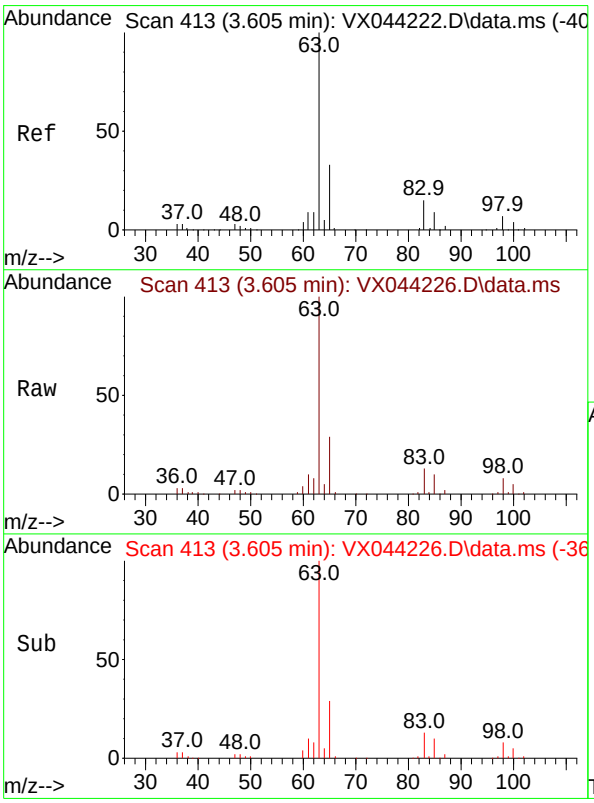
#23
Vinyl Acetate
Concen: 258.510 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 43 Resp: 1185779

Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.2	12.2

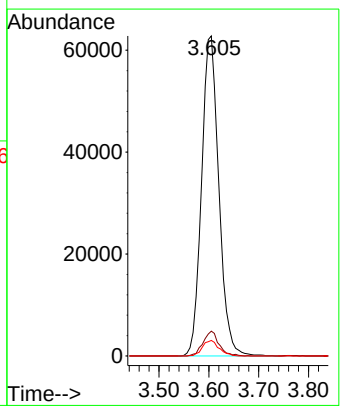


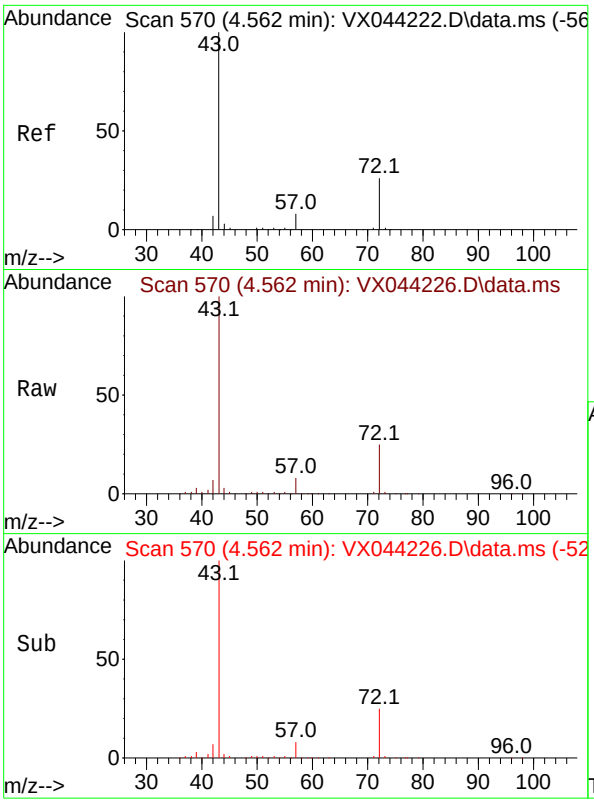


#24
1,1-Dichloroethane
Concen: 48.056 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 63 Resp: 151134

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.6	10.8
100	4.8	2.1	6.3



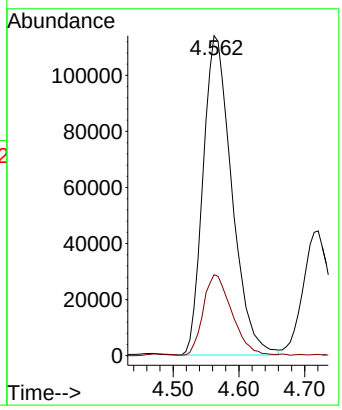


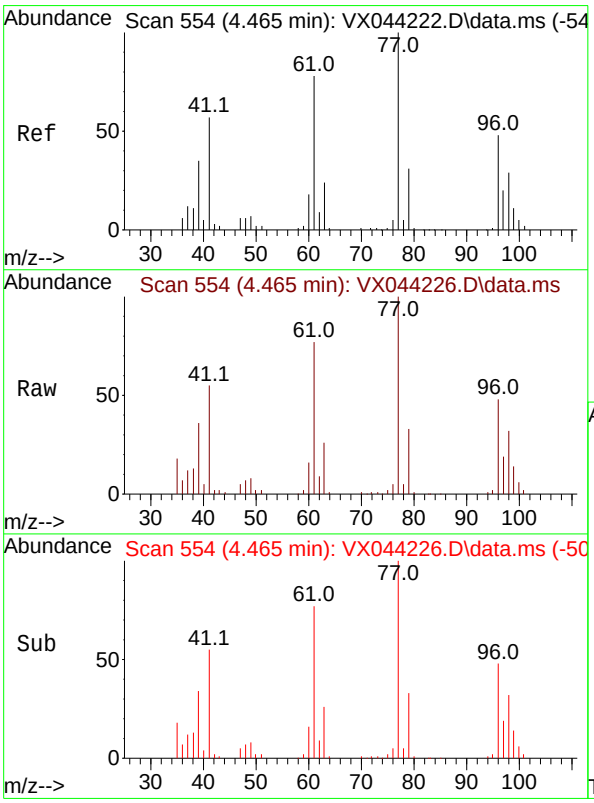
#25
2-Butanone
Concen: 253.747 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 43 Resp: 346052

Ion	Ratio	Lower	Upper
43	100		
72	25.2	20.2	30.4

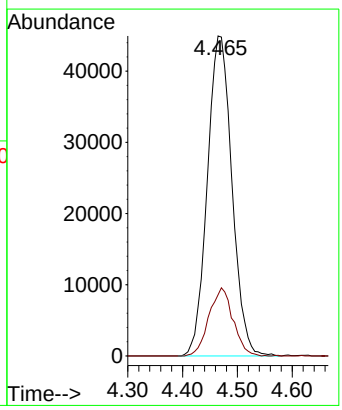


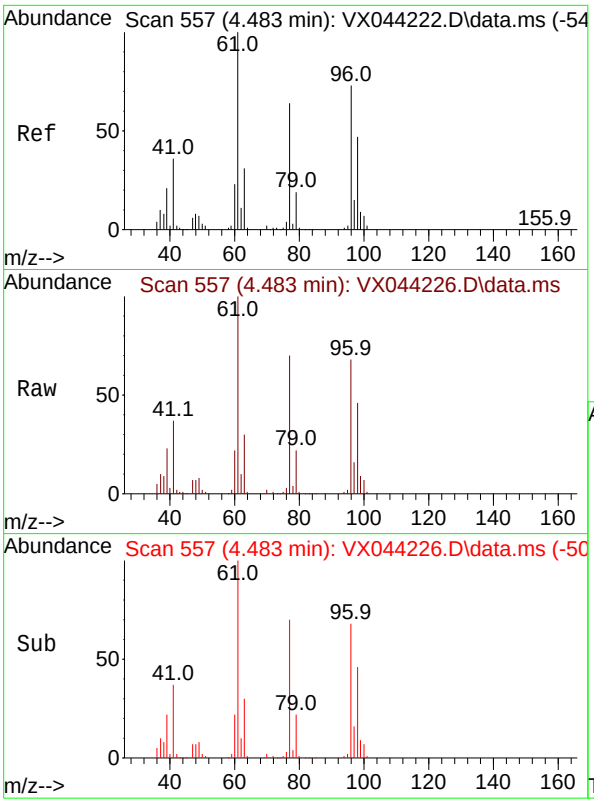


#26
2,2-Dichloropropane
Concen: 54.872 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 77 Resp: 140196

Ion	Ratio	Lower	Upper
77	100		
97	20.8	10.7	32.1



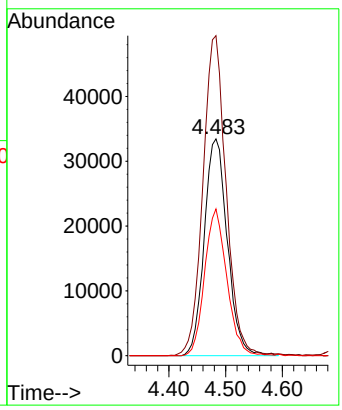


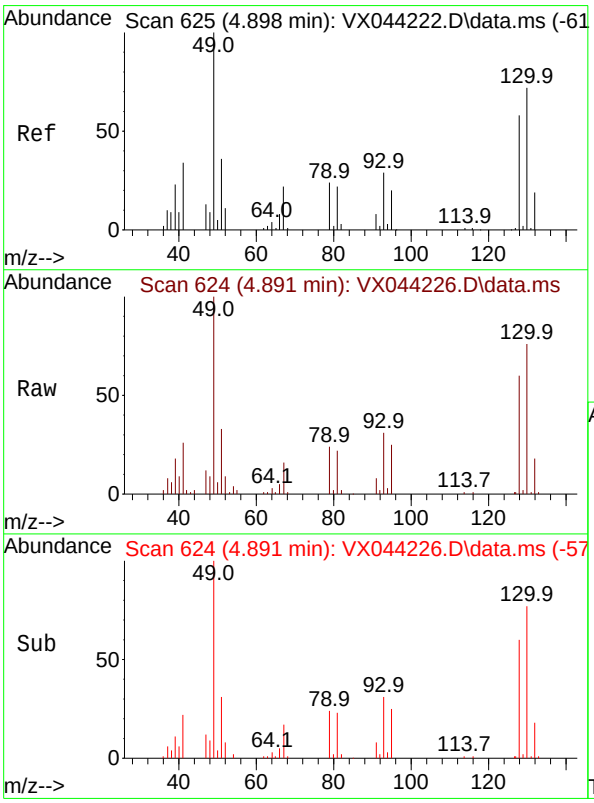
#27
cis-1,2-Dichloroethene
Concen: 46.709 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 96 Resp: 94838

Ion	Ratio	Lower	Upper
96	100		
61	147.7	0.0	299.0
98	64.9	0.0	129.0

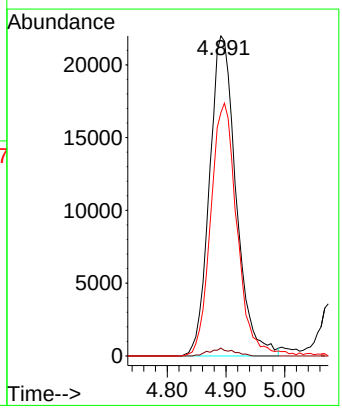


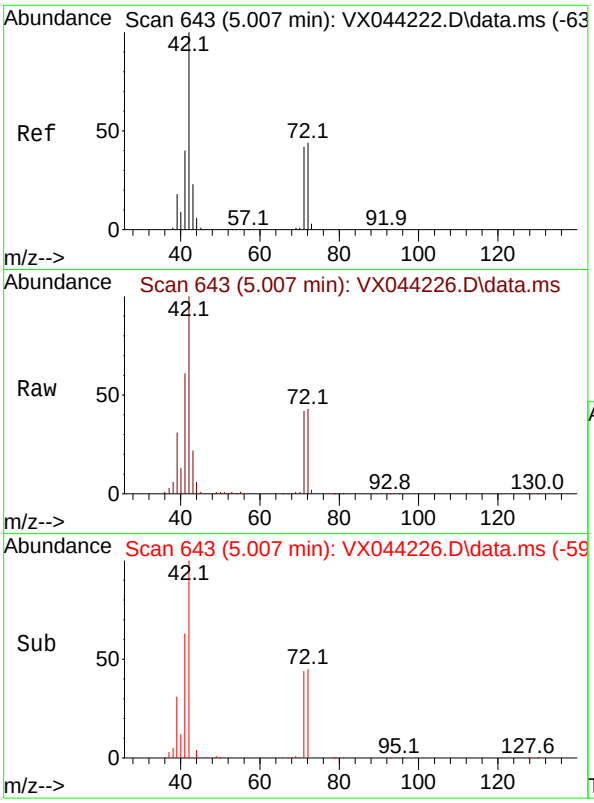


#28
Bromochloromethane
Concen: 44.832 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 49 Resp: 69139

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	78.1	62.1	93.1



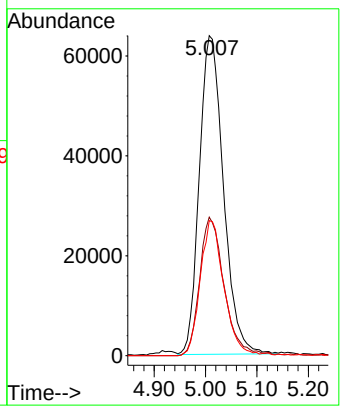


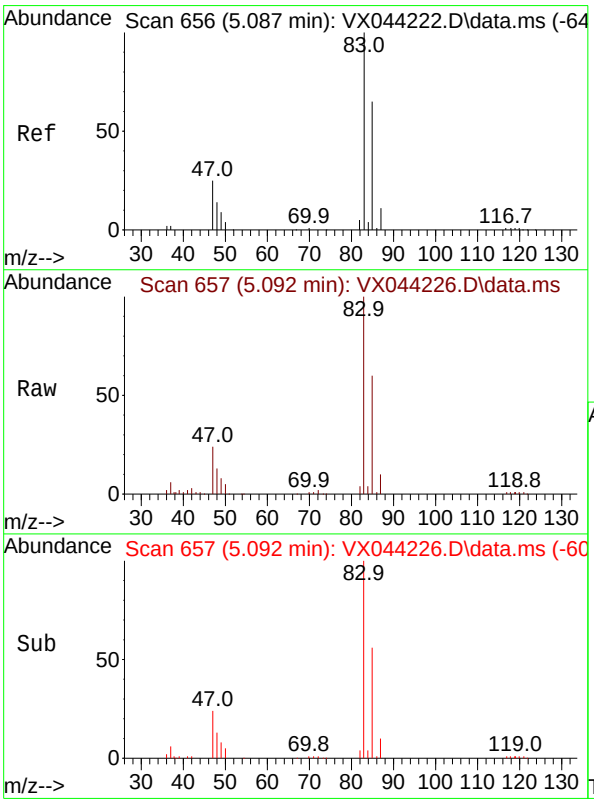
#29
Tetrahydrofuran
Concen: 238.031 ug/l
RT: 5.007 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 42 Resp: 208362

Ion	Ratio	Lower	Upper
42	100		
72	44.2	37.0	55.6
71	41.5	33.6	50.4

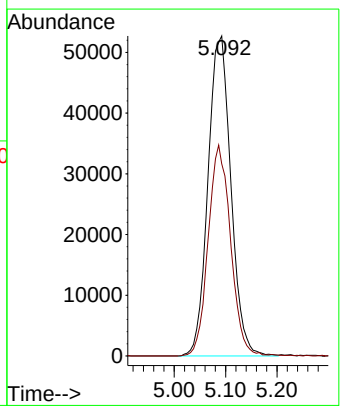


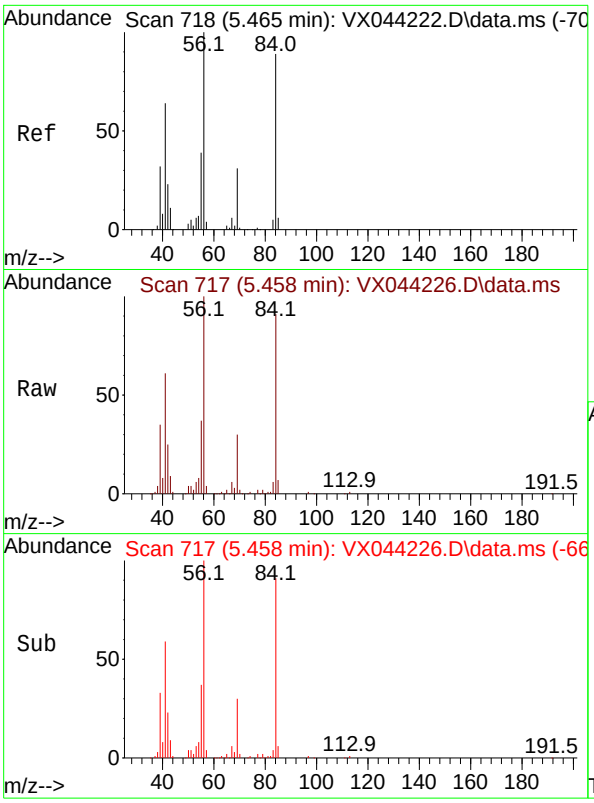


#30
Chloroform
Concen: 46.235 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 83 Resp: 163372

Ion	Ratio	Lower	Upper
83	100		
85	60.0	51.6	77.4



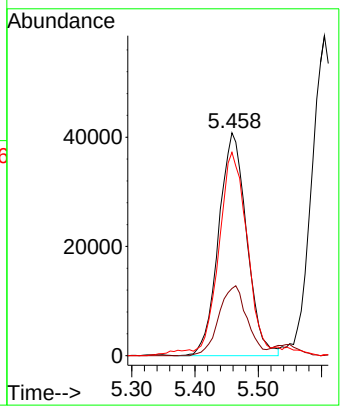


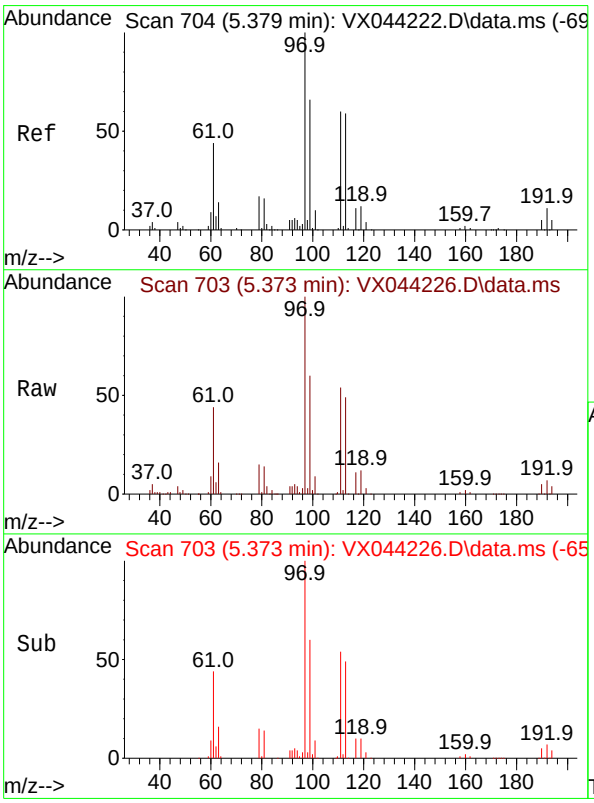
#31
Cyclohexane
Concen: 49.443 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 56 Resp: 125567

Ion	Ratio	Lower	Upper
56	100		
69	30.2	24.7	37.1
84	88.8	71.0	106.6

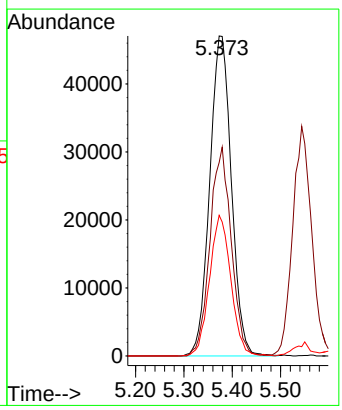


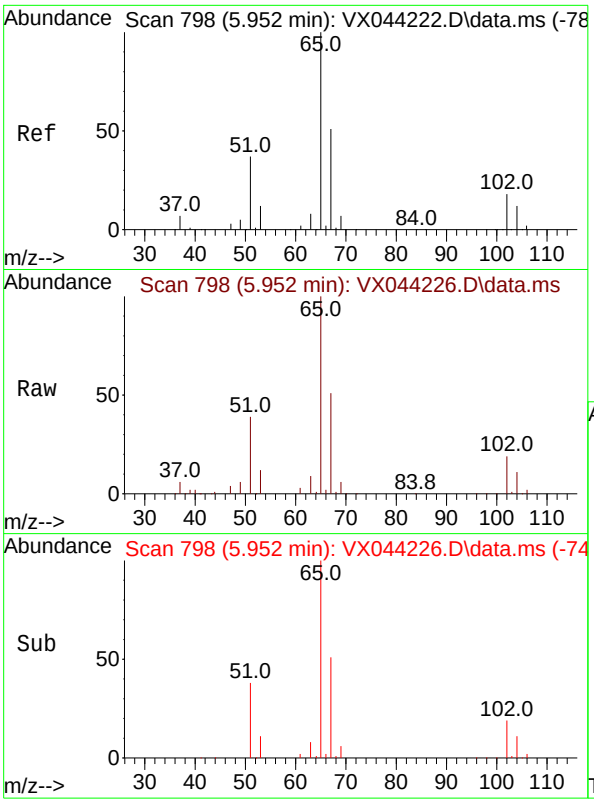


#32
1,1,1-Trichloroethane
Concen: 49.895 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 97 Resp: 146348

Ion	Ratio	Lower	Upper
97	100		
99	64.2	50.8	76.2
61	43.3	35.2	52.8



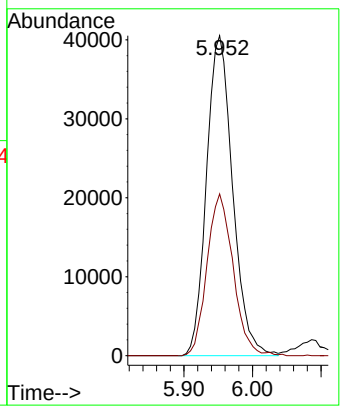


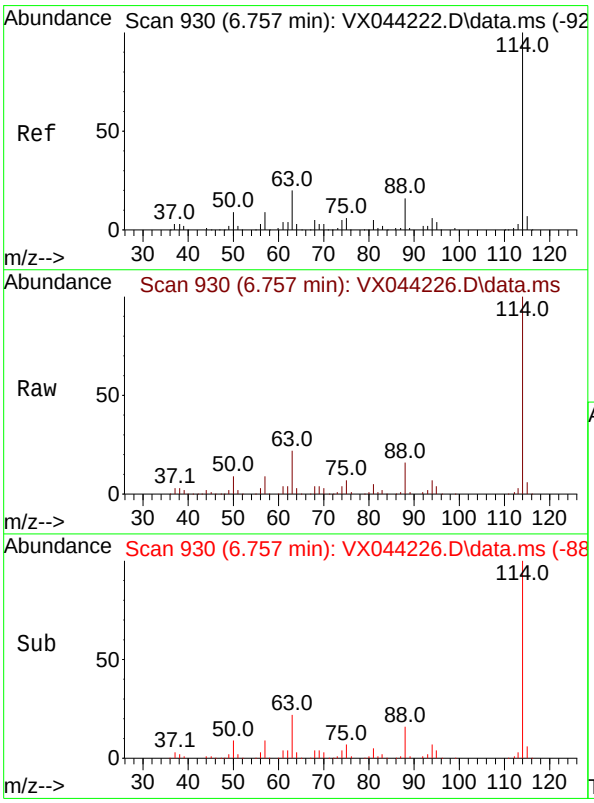
#33
1,2-Dichloroethane-d4
Concen: 45.646 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 65 Resp: 107407

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.6

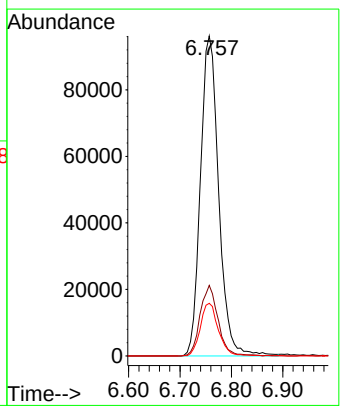


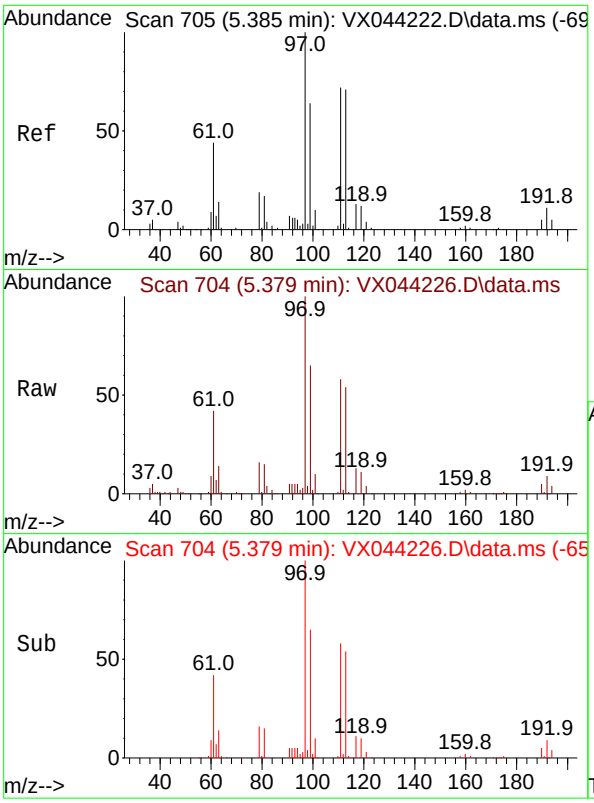


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:114 Resp: 237295

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	40.6
88	16.4	0.0	31.8



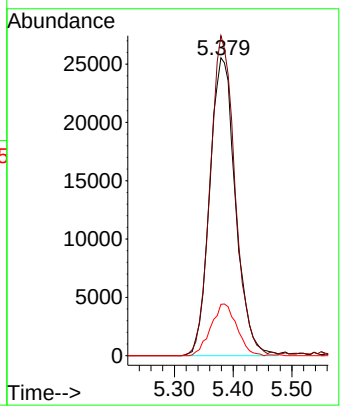


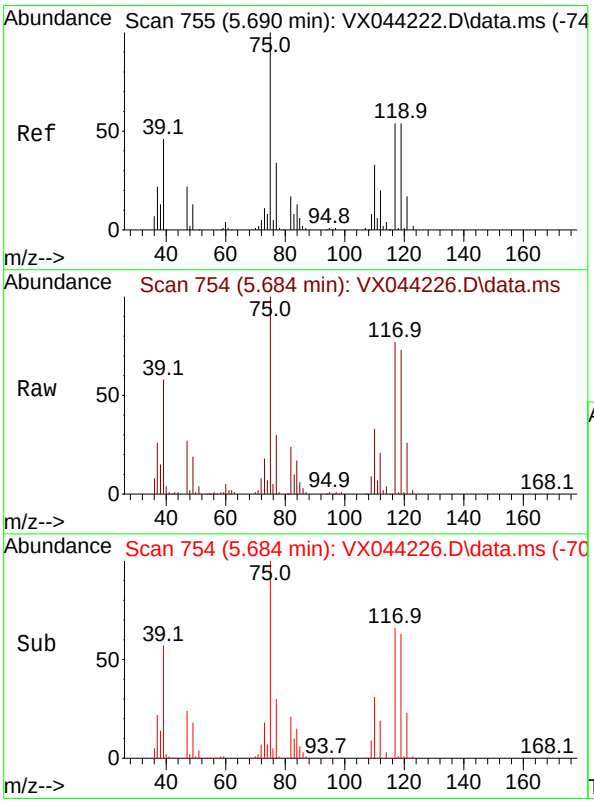
#35
Dibromofluoromethane
Concen: 47.228 ug/l
RT: 5.379 min Scan# 7(
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:113 Resp: 77619

Ion	Ratio	Lower	Upper
113	100		
111	103.8	80.4	120.6
192	17.5	13.3	19.9

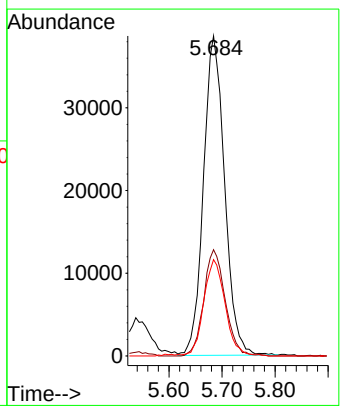


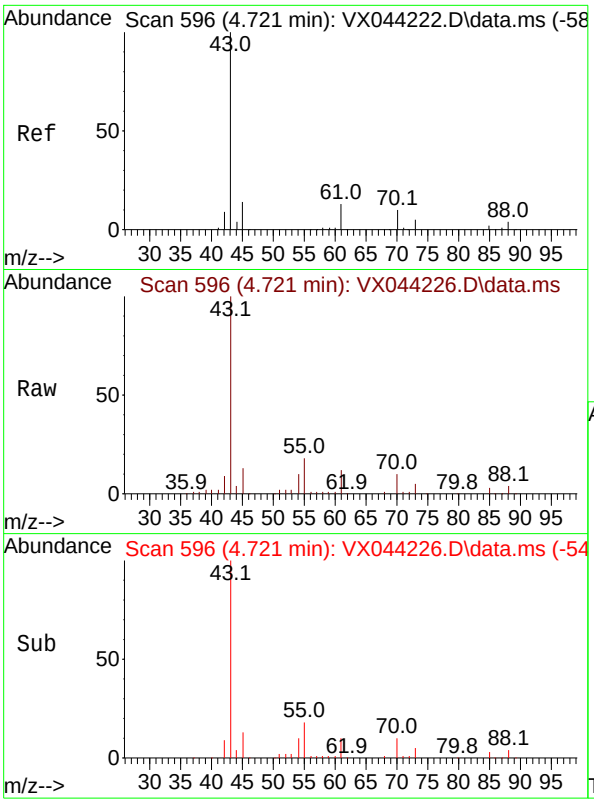


#36
1,1-Dichloropropene
Concen: 50.314 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 106889

Ion	Ratio	Lower	Upper
75	100		
110	33.8	17.3	51.7
77	30.5	25.4	38.0



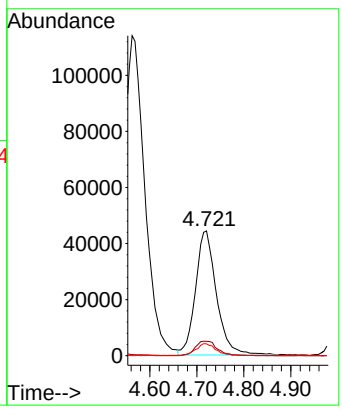


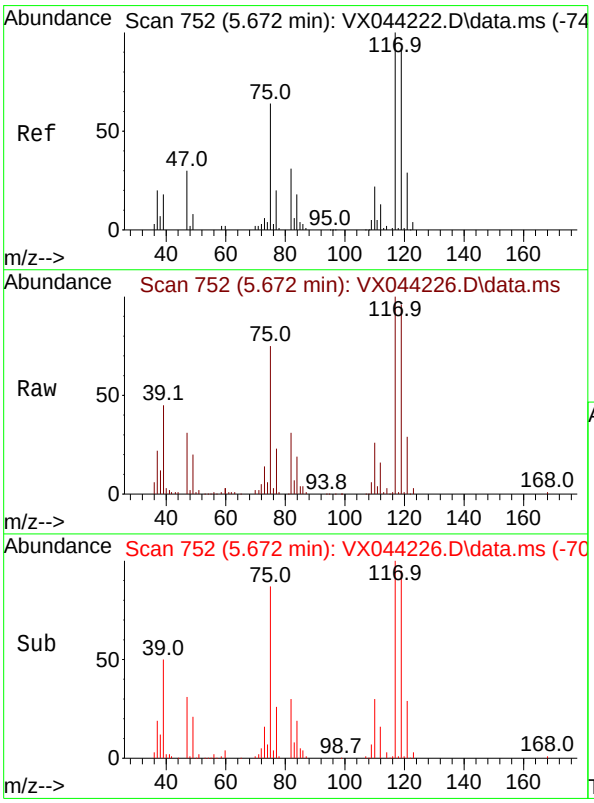
#37
Ethyl Acetate
Concen: 52.176 ug/l
RT: 4.721 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 43 Resp: 137017

Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.8	14.8
70	9.4	7.7	11.5

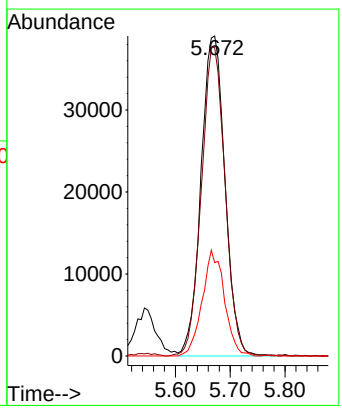


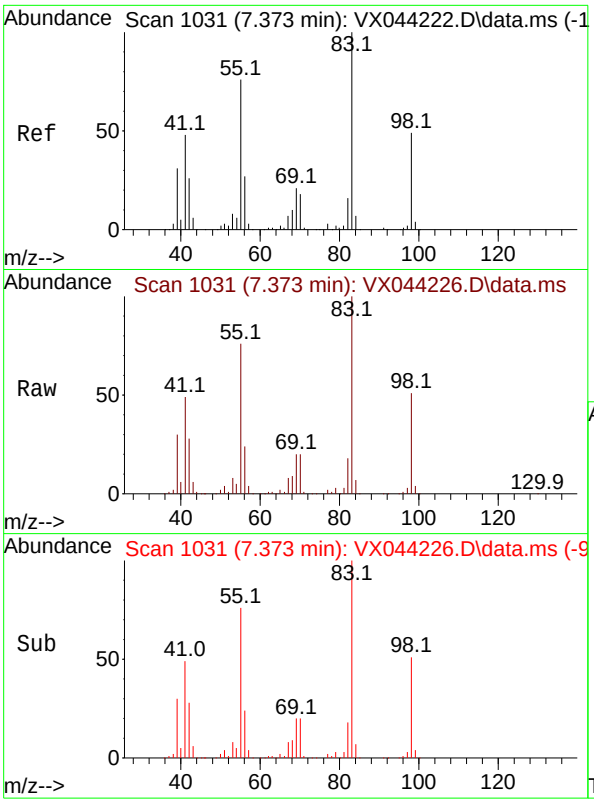


#38
Carbon Tetrachloride
Concen: 51.763 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:117 Resp: 118390

Ion	Ratio	Lower	Upper
117	100		
119	96.0	74.2	111.4
121	29.1	23.0	34.6



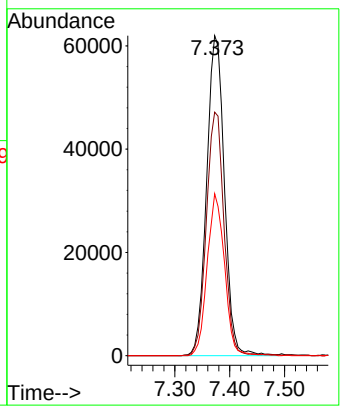


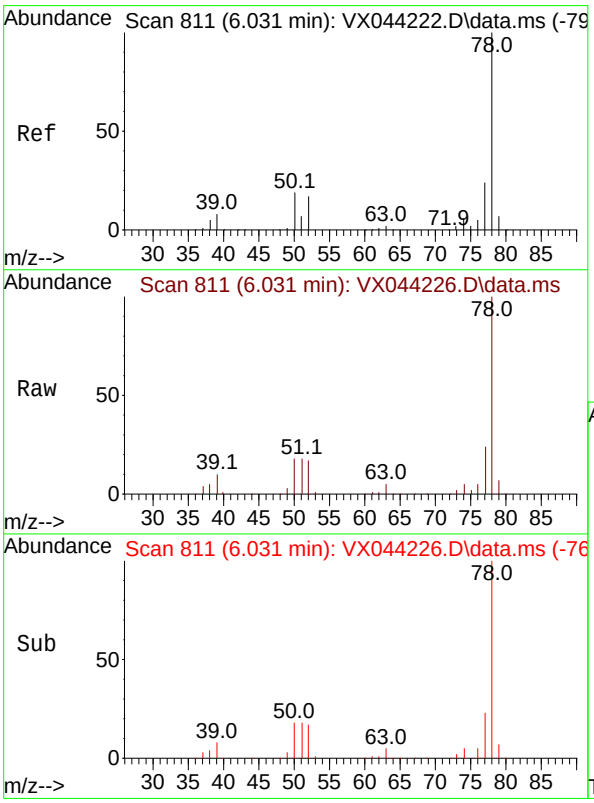
#39
Methylcyclohexane
Concen: 54.761 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 83 Resp: 139077

Ion	Ratio	Lower	Upper
83	100		
55	76.1	60.7	91.1
98	50.6	38.9	58.3

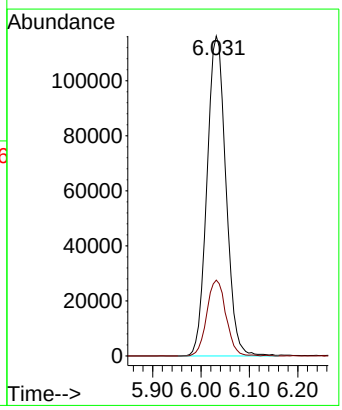


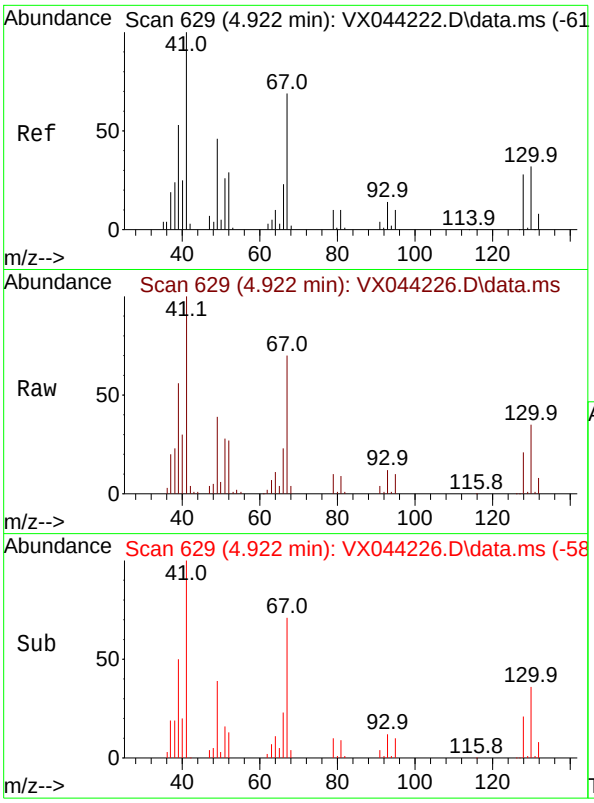


#40
Benzene
Concen: 49.052 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 78 Resp: 316391

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.3	28.9



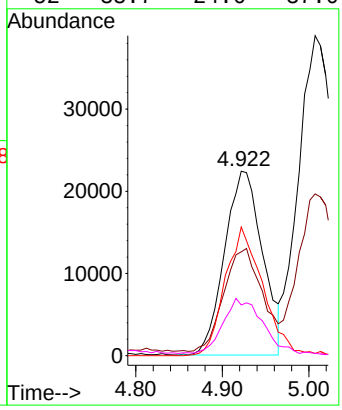


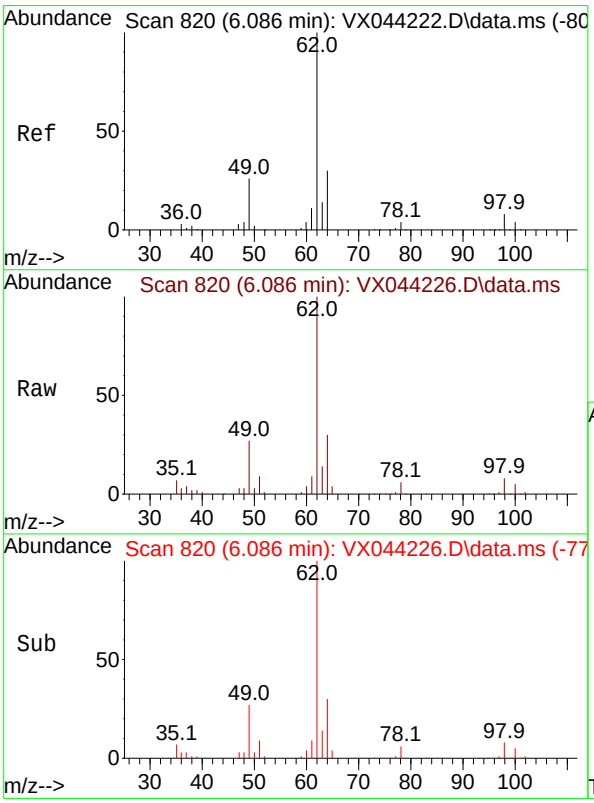
#41
Methacrylonitrile
Concen: 48.945 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 41 Resp: 68251

Ion	Ratio	Lower	Upper
41	100		
39	56.3	44.2	66.4
67	69.8	57.2	85.8
52	33.7	24.6	37.0

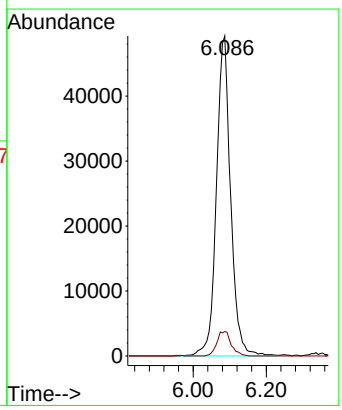


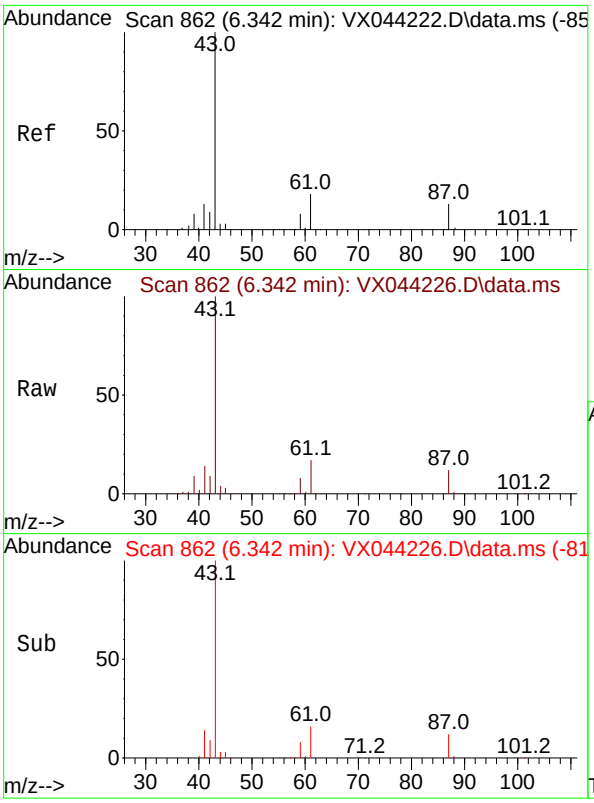


#42
1,2-Dichloroethane
Concen: 49.960 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 62 Resp: 132744

Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	15.8



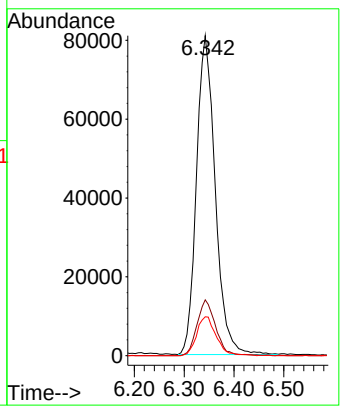


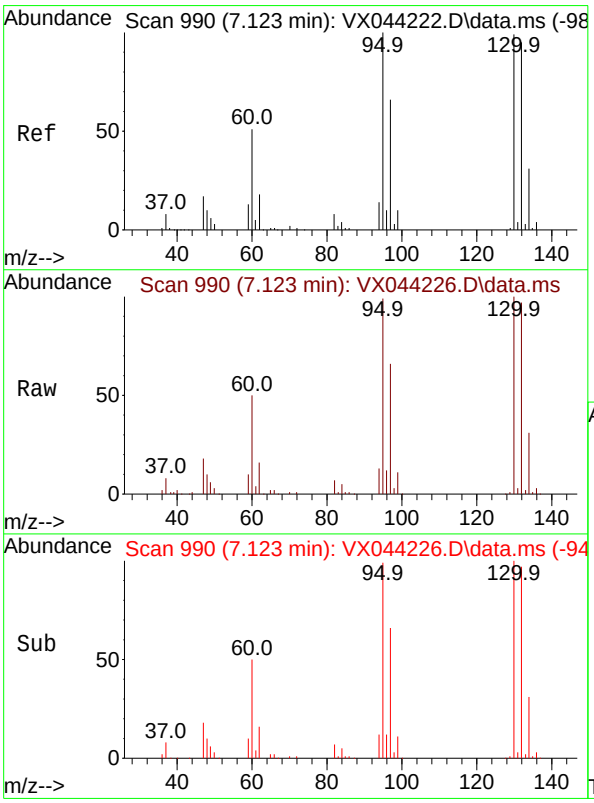
#43
Isopropyl Acetate
Concen: 51.624 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 43 Resp: 211889

Ion	Ratio	Lower	Upper
43	100		
61	17.4	14.2	21.2
87	12.7	10.2	15.2

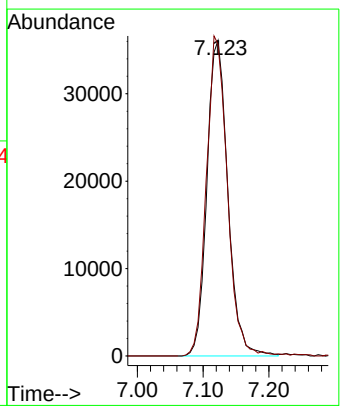


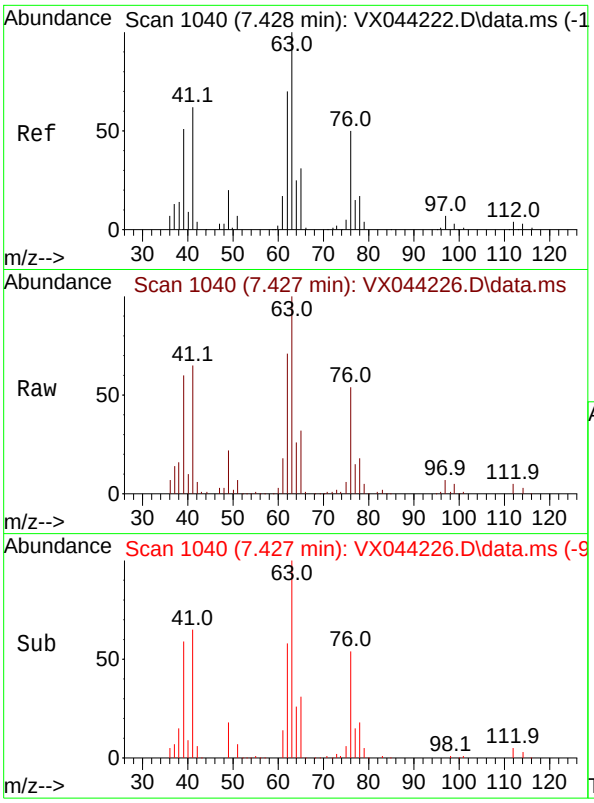


#44
Trichloroethene
Concen: 49.741 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:130 Resp: 80008

Ion	Ratio	Lower	Upper
130	100		
95	98.8	0.0	201.4



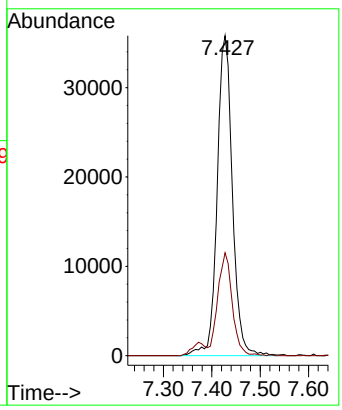


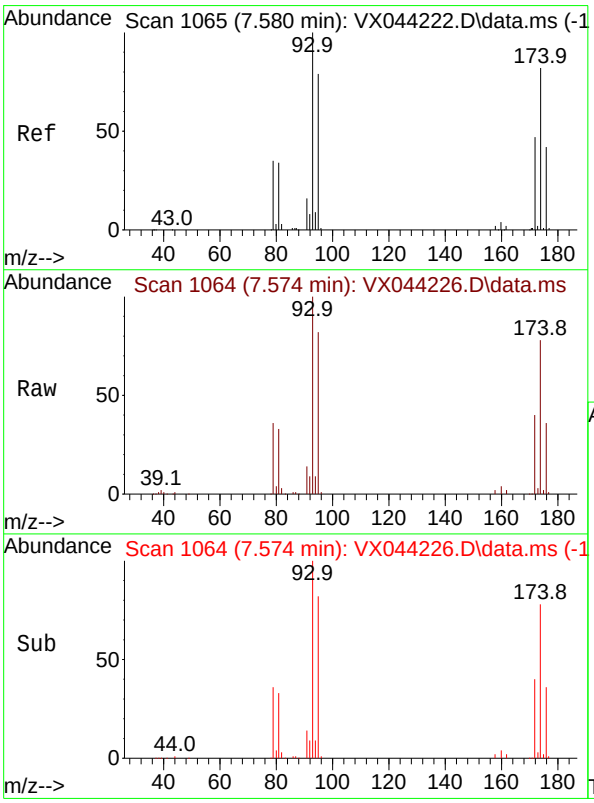
#45
1,2-Dichloropropane
Concen: 47.528 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 63 Resp: 78321

Ion	Ratio	Lower	Upper
63	100		
65	32.1	24.6	37.0

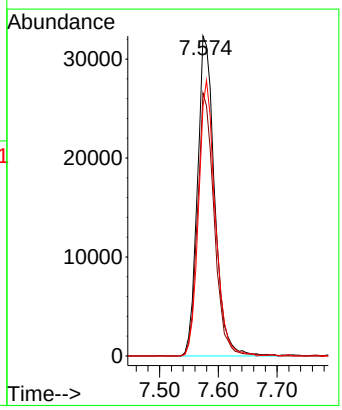


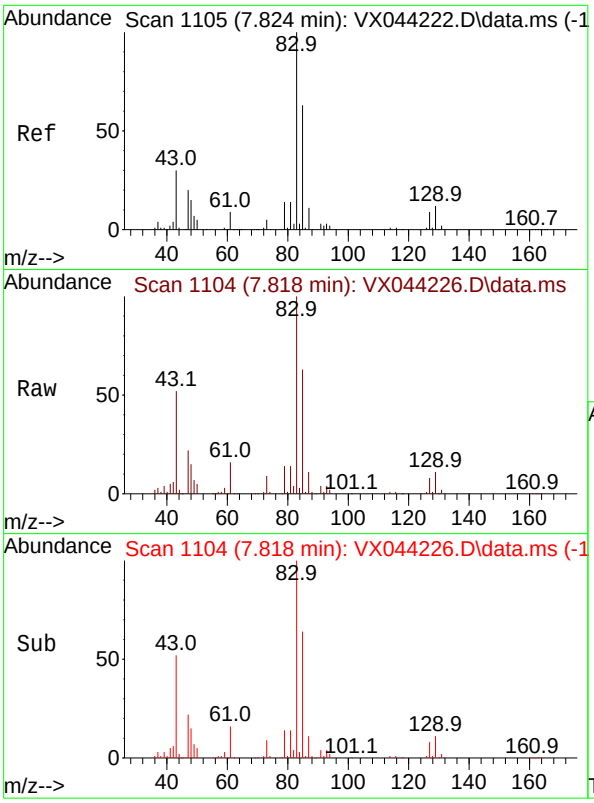


#46
Dibromomethane
Concen: 51.227 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 93 Resp: 65491

Ion	Ratio	Lower	Upper
93	100		
95	80.5	65.4	98.2
174	84.0	67.9	101.9



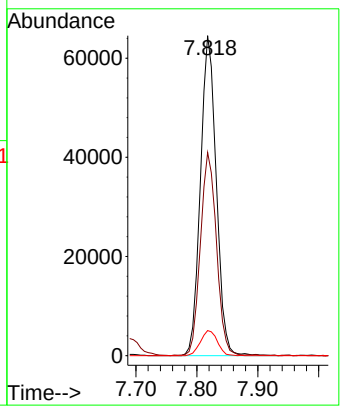


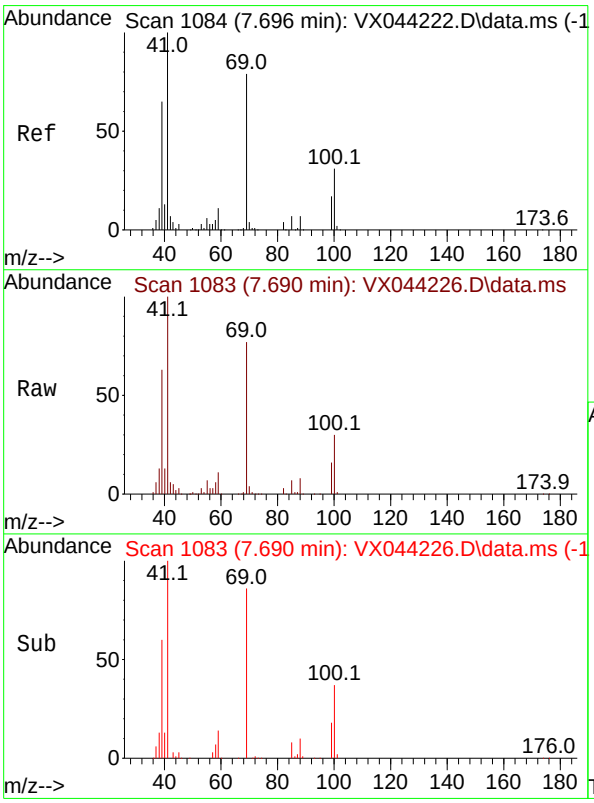
#47
Bromodichloromethane
Concen: 52.893 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 83 Resp: 116783

Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.6	75.8
127	7.9	7.3	10.9

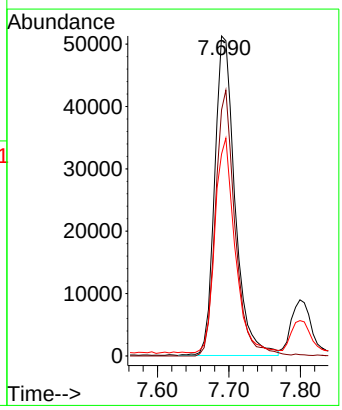


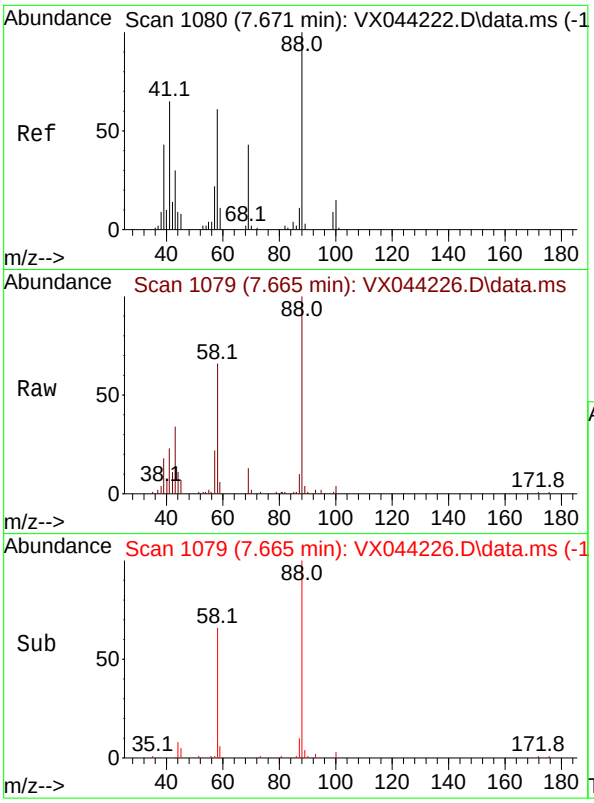


#48
Methyl methacrylate
Concen: 50.852 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 41 Resp: 101318

Ion	Ratio	Lower	Upper
41	100		
69	79.9	62.4	93.6
39	66.0	53.3	79.9



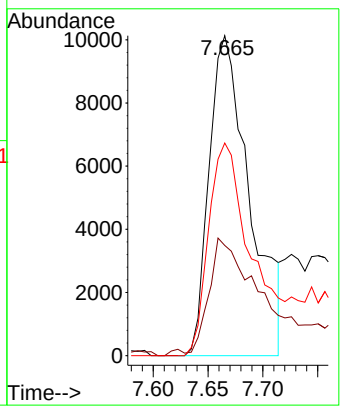


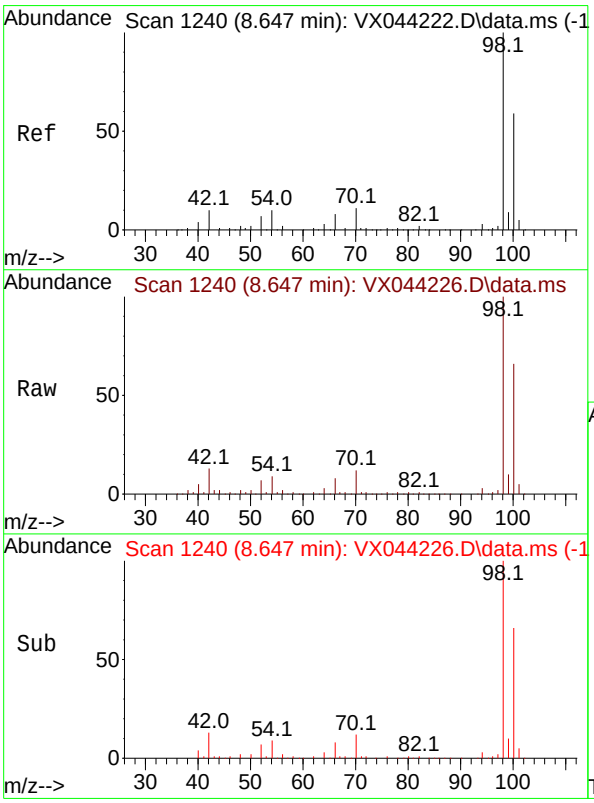
#49
1,4-Dioxane
Concen: 791.313 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 88 Resp: 26140

Ion	Ratio	Lower	Upper
88	100		
43	51.8	27.1	40.7#
58	70.7	41.0	61.4#

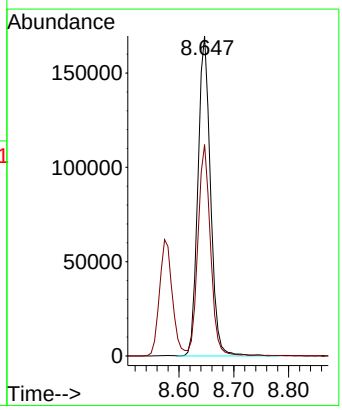


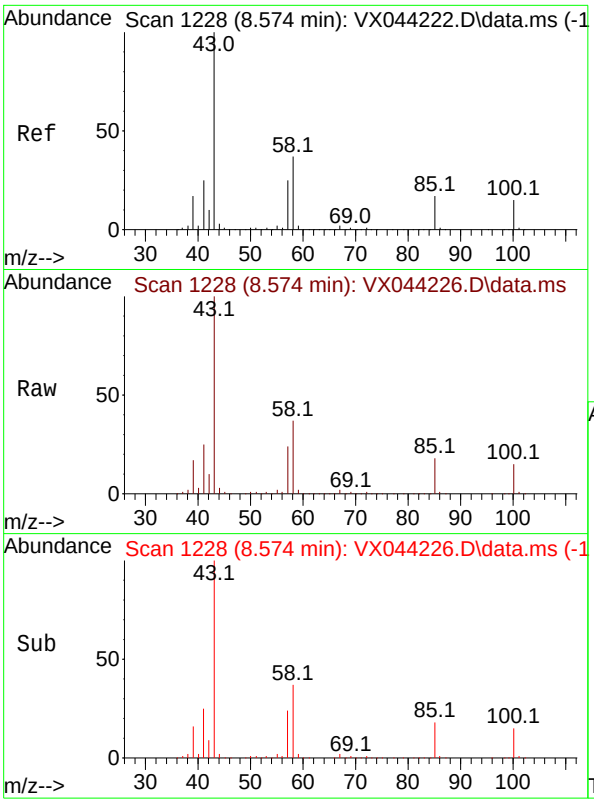


#50
Toluene-d8
Concen: 48.968 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 98 Resp: 271508

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.5	77.3



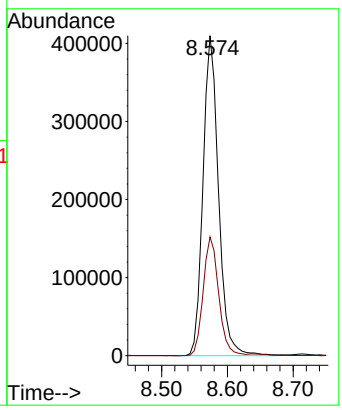


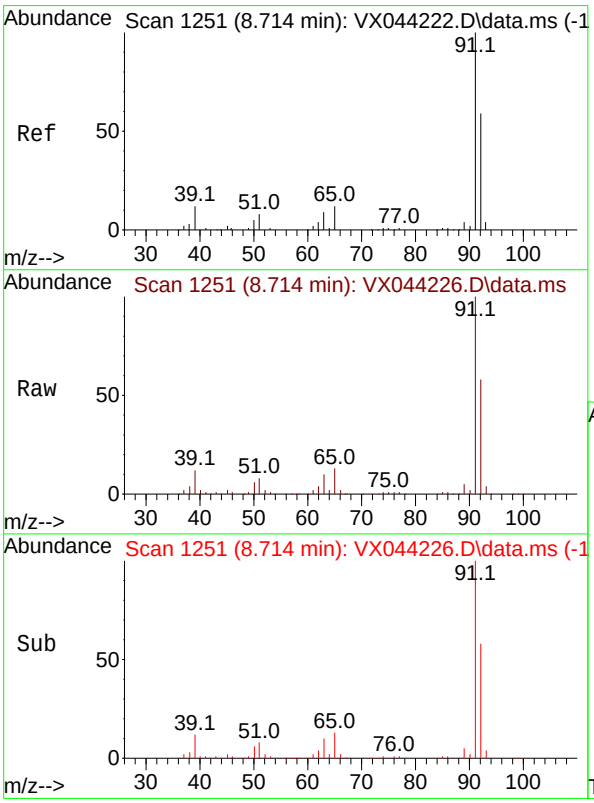
#51
4-Methyl-2-Pentanone
Concen: 255.038 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 43 Resp: 673069

Ion	Ratio	Lower	Upper
43	100		
58	37.0	29.4	44.0

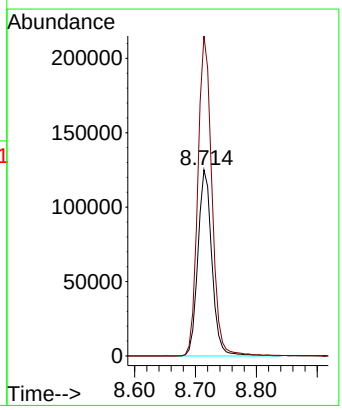


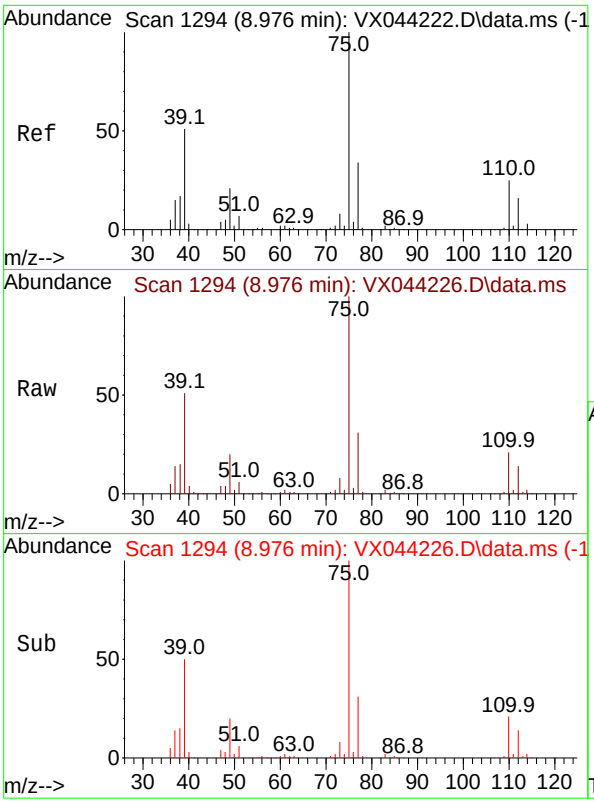


#52
Toluene
Concen: 49.199 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 92 Resp: 199281

Ion	Ratio	Lower	Upper
92	100		
91	173.2	137.0	205.6



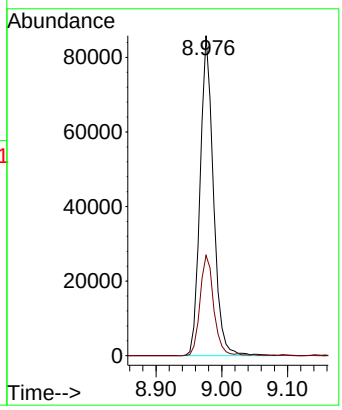


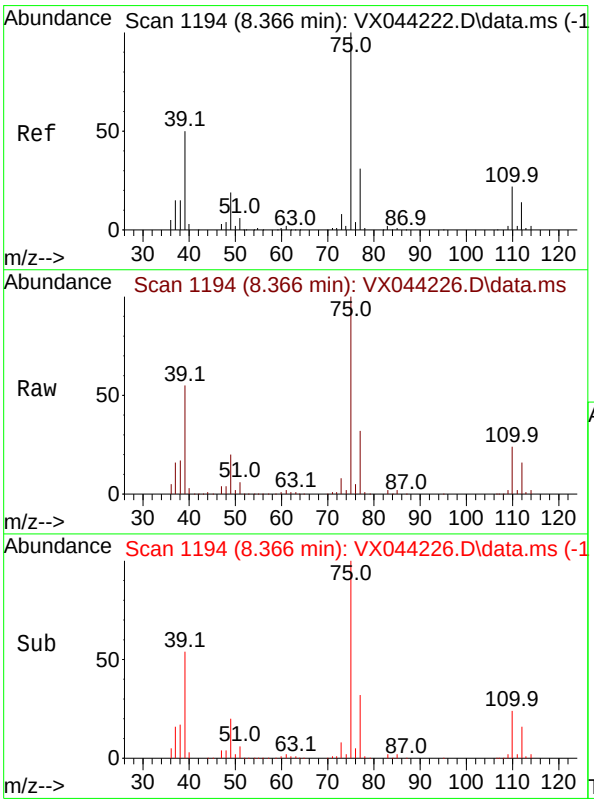
#53
t-1,3-Dichloropropene
Concen: 50.864 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 75 Resp: 120696

Ion	Ratio	Lower	Upper
75	100		
77	31.4	27.2	40.8

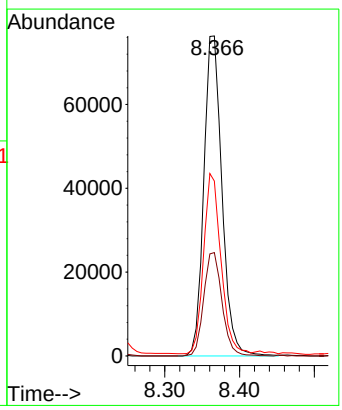


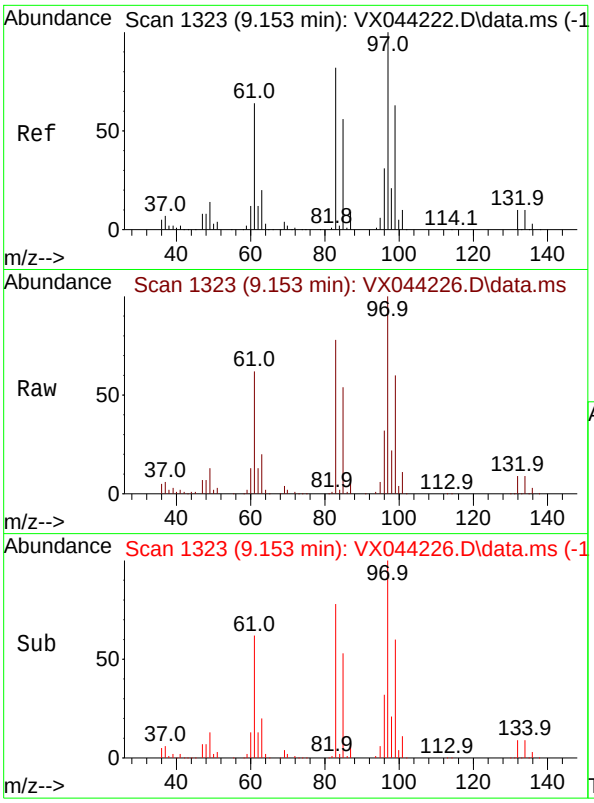


#54
cis-1,3-Dichloropropene
Concen: 53.607 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 128875

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.7	37.1
39	53.9	40.3	60.5



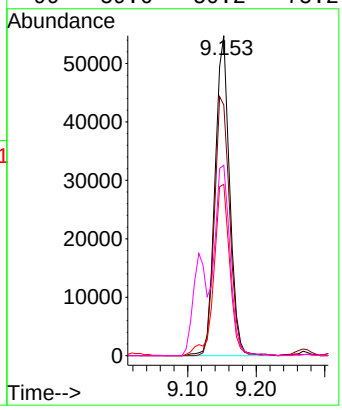


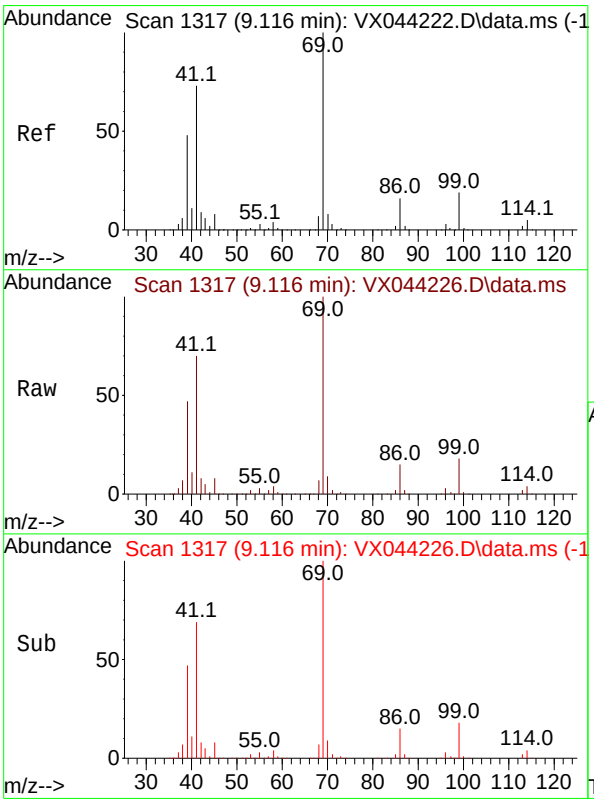
#55
1,1,2-Trichloroethane
Concen: 50.562 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 97 Resp: 81362

Ion	Ratio	Lower	Upper
97	100		
83	78.3	65.3	97.9
85	53.6	44.6	67.0
99	59.6	50.2	75.2

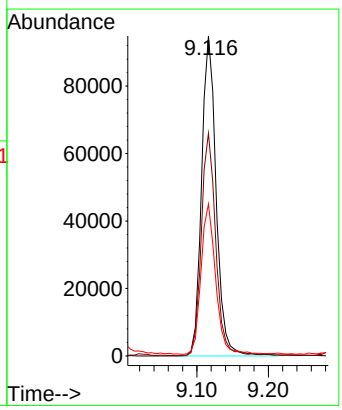


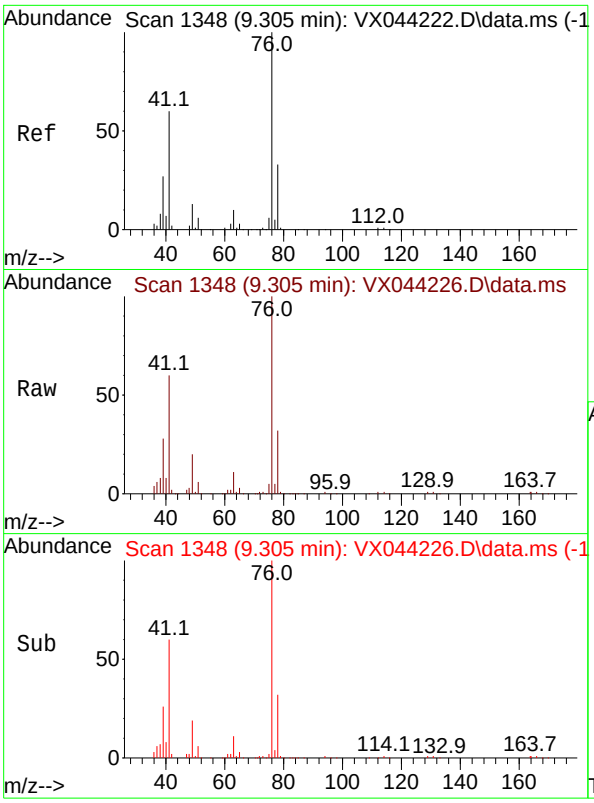


#56
Ethyl methacrylate
Concen: 52.890 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 69 Resp: 134357

Ion	Ratio	Lower	Upper
69	100		
41	68.6	56.6	85.0
39	47.2	37.4	56.0



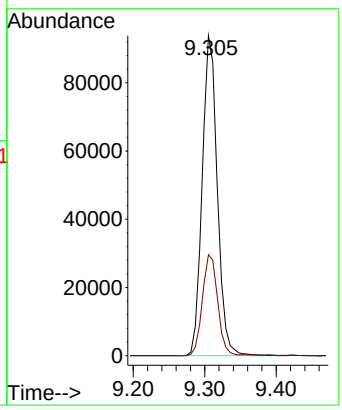


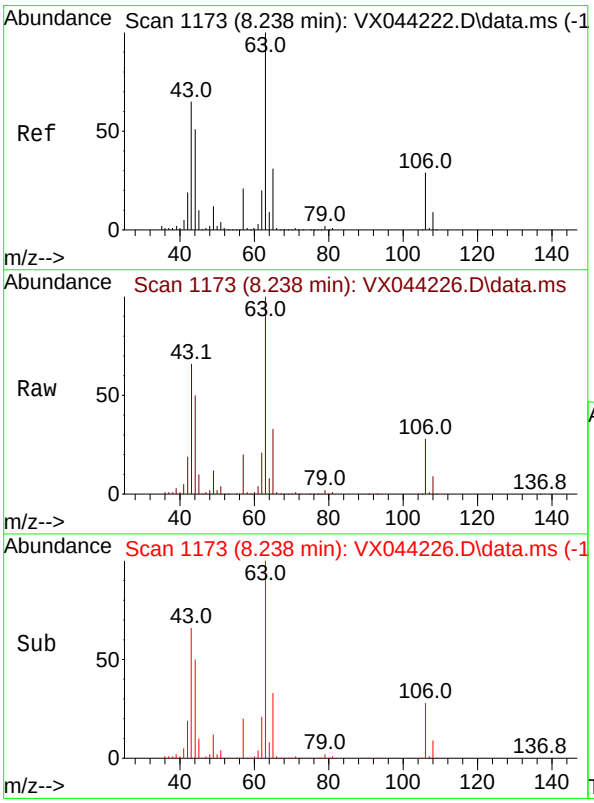
#57
1,3-Dichloropropane
Concen: 49.165 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 76 Resp: 137705

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.5	39.7

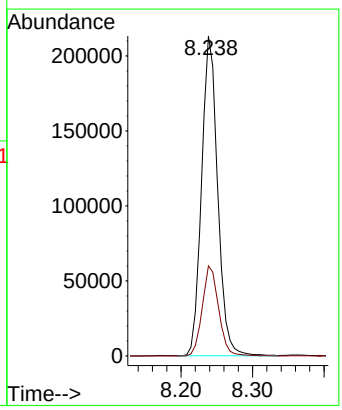


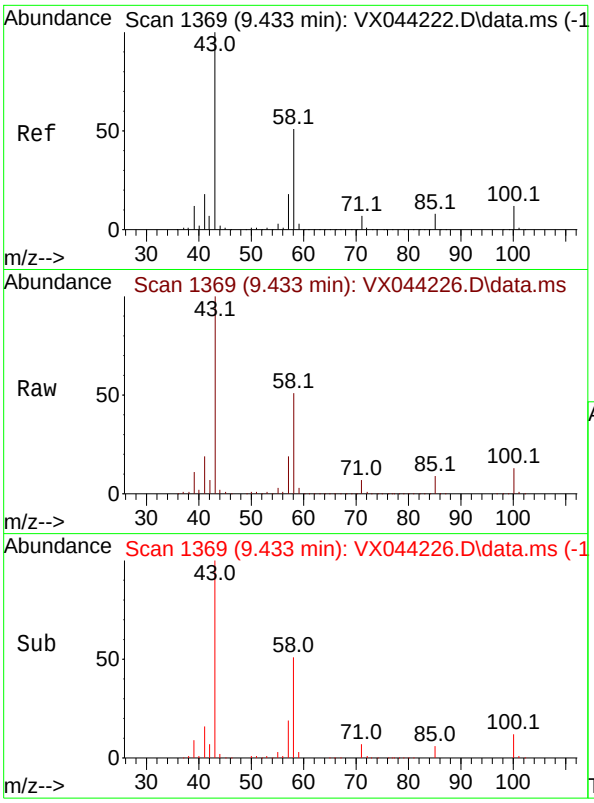


#58
2-Chloroethyl Vinyl ether
Concen: 259.586 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 63 Resp: 332599

Ion	Ratio	Lower	Upper
63	100		
106	28.6	22.8	34.2



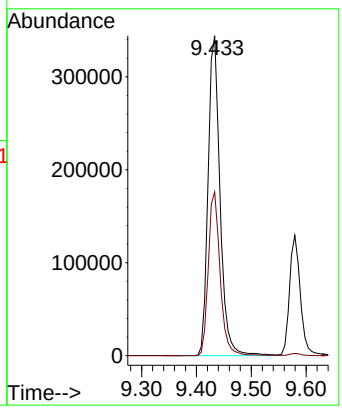


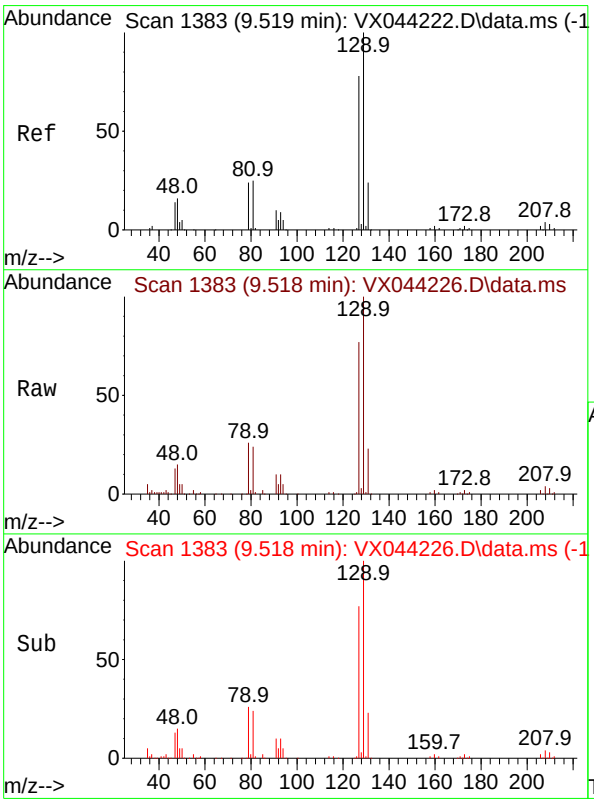
#59
2-Hexanone
Concen: 271.943 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 43 Resp: 519476

Ion	Ratio	Lower	Upper
43	100		
58	50.7	25.7	77.0

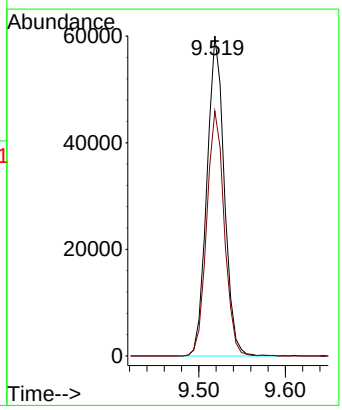


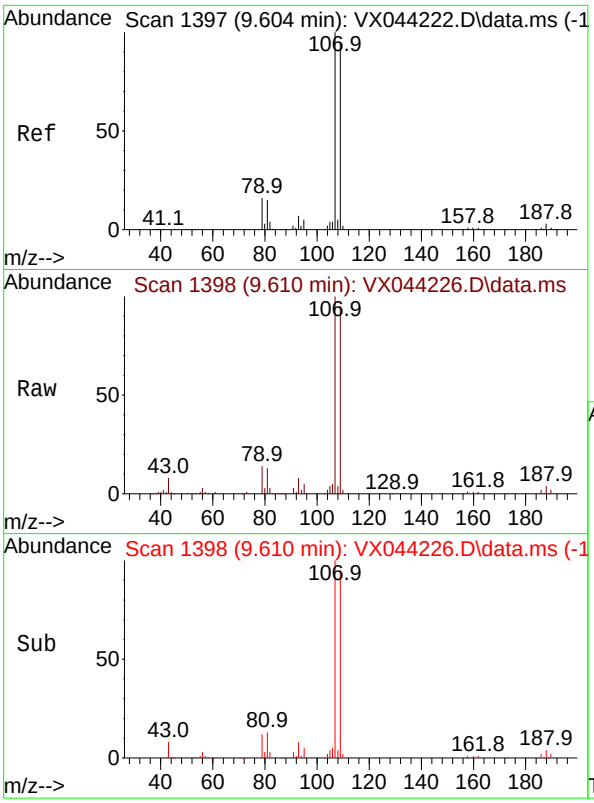


#60
Dibromochloromethane
Concen: 49.073 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:129 Resp: 83515

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.3



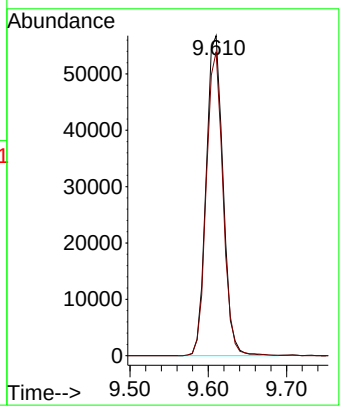


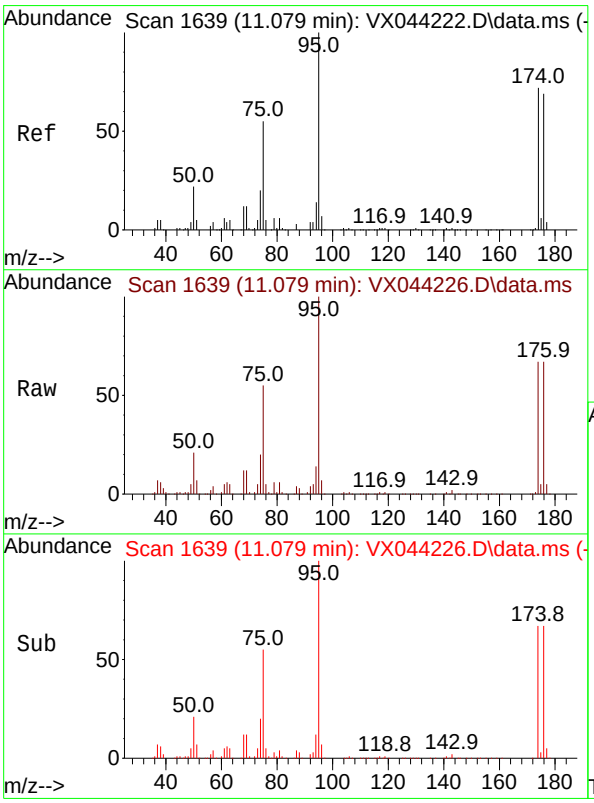
#61
1,2-Dibromoethane
Concen: 51.909 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:107 Resp: 85024

Ion	Ratio	Lower	Upper
107	100		
109	93.7	77.0	115.4

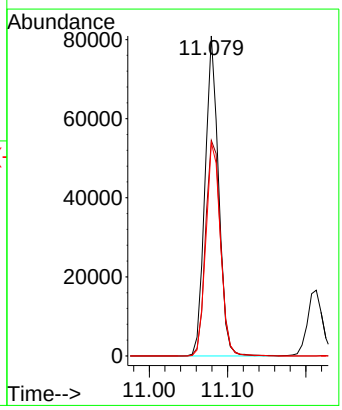


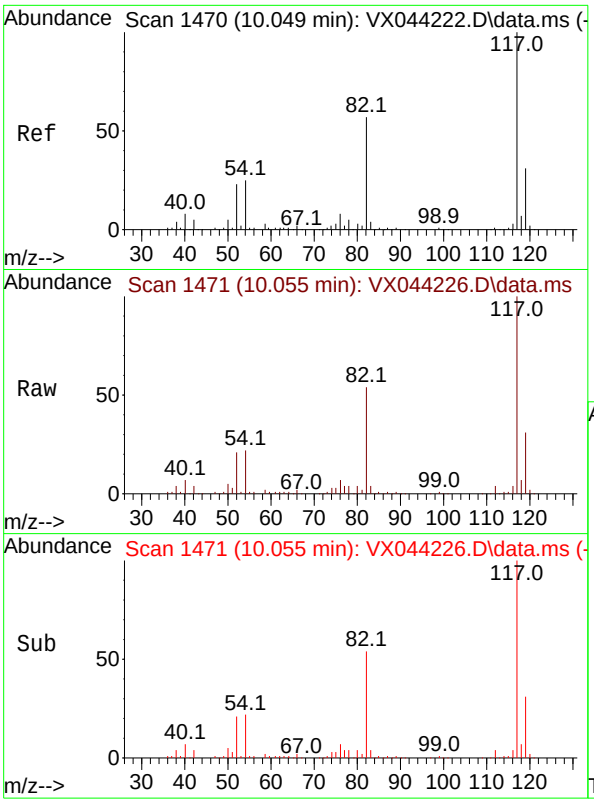


#62
4-Bromofluorobenzene
Concen: 50.098 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 95 Resp: 97061

Ion	Ratio	Lower	Upper
95	100		
174	74.3	0.0	145.8
176	71.4	0.0	137.8



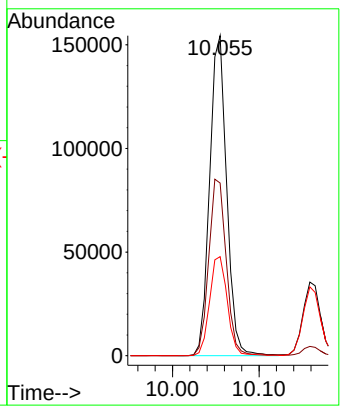


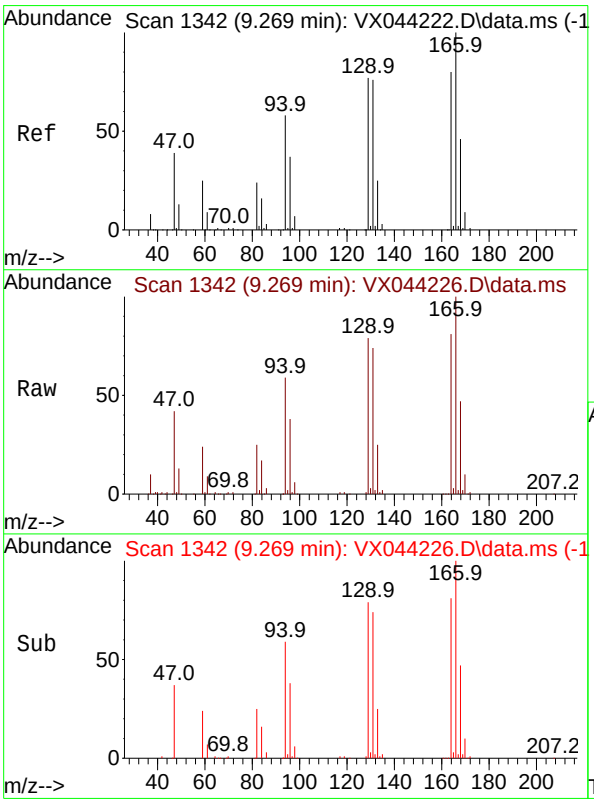
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:117 Resp: 210572

Ion	Ratio	Lower	Upper
117	100		
82	54.0	45.8	68.8
119	31.0	25.0	37.4

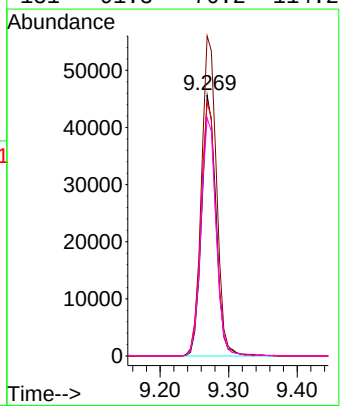


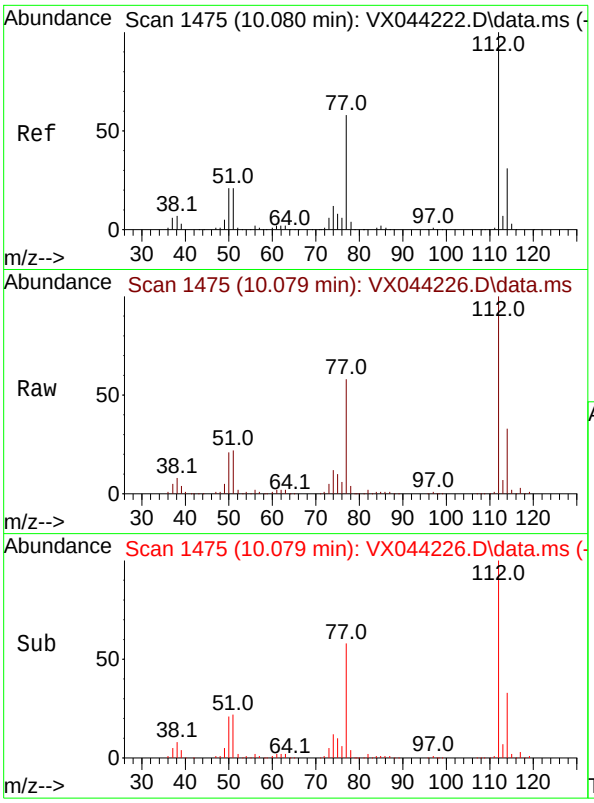


#64
Tetrachloroethene
Concen: 47.702 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:164 Resp: 66669

Ion	Ratio	Lower	Upper
164	100		
166	122.8	100.4	150.6
129	97.2	77.2	115.8
131	91.3	76.2	114.2



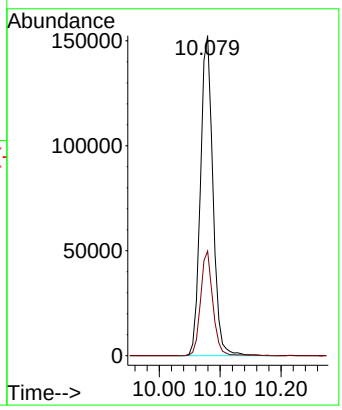


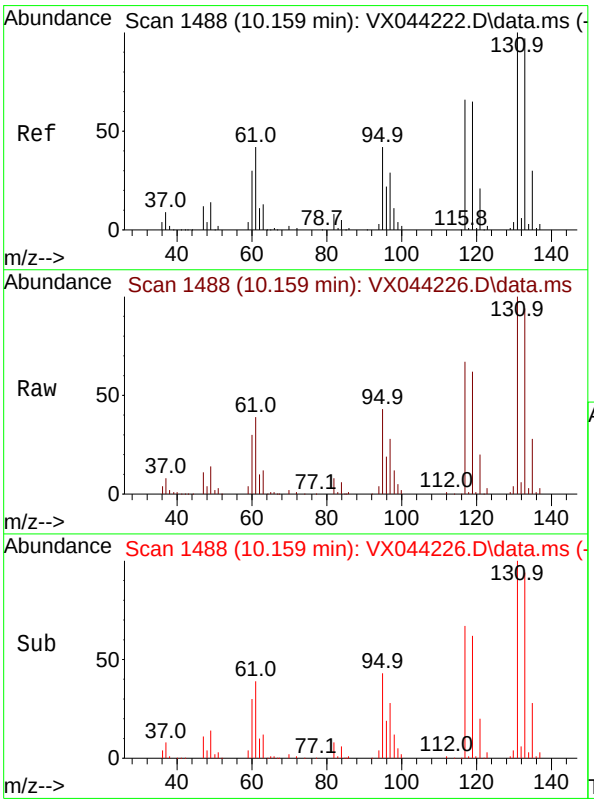
#65
Chlorobenzene
Concen: 48.133 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:112 Resp: 217180

Ion	Ratio	Lower	Upper
112	100		
114	32.7	25.0	37.6

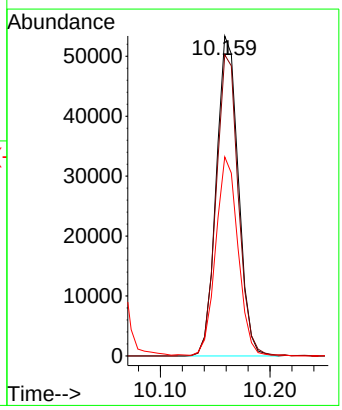


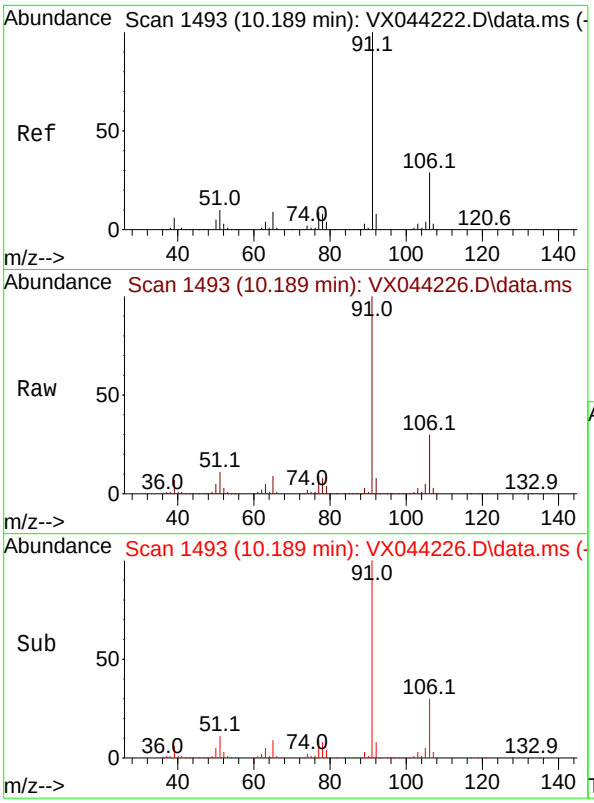


#66
1,1,1,2-Tetrachloroethane
Concen: 51.396 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:131 Resp: 74531

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.3	141.8
119	63.3	31.6	95.0



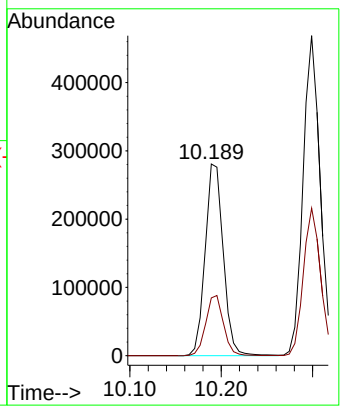


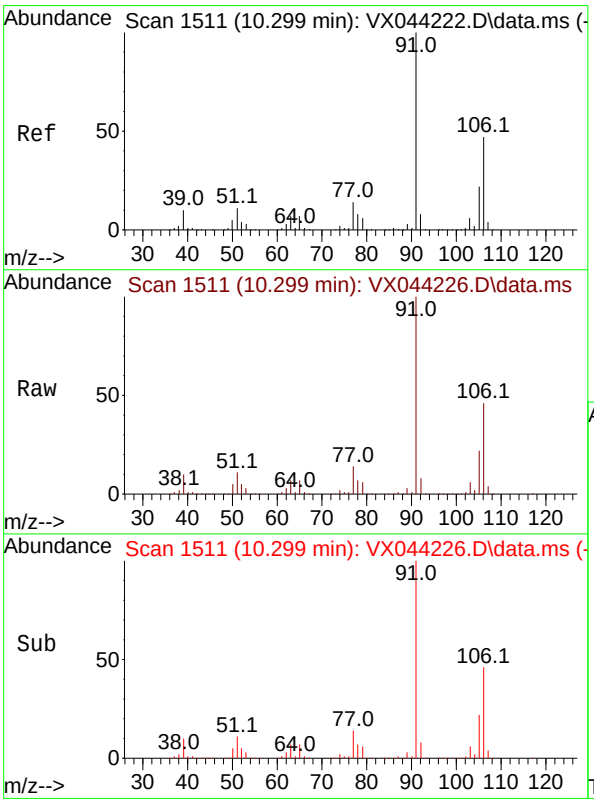
#67
Ethyl Benzene
Concen: 49.461 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 91 Resp: 385605

Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.5	35.3

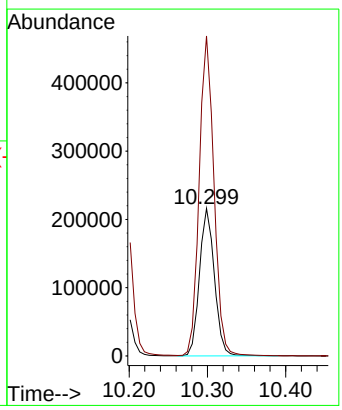


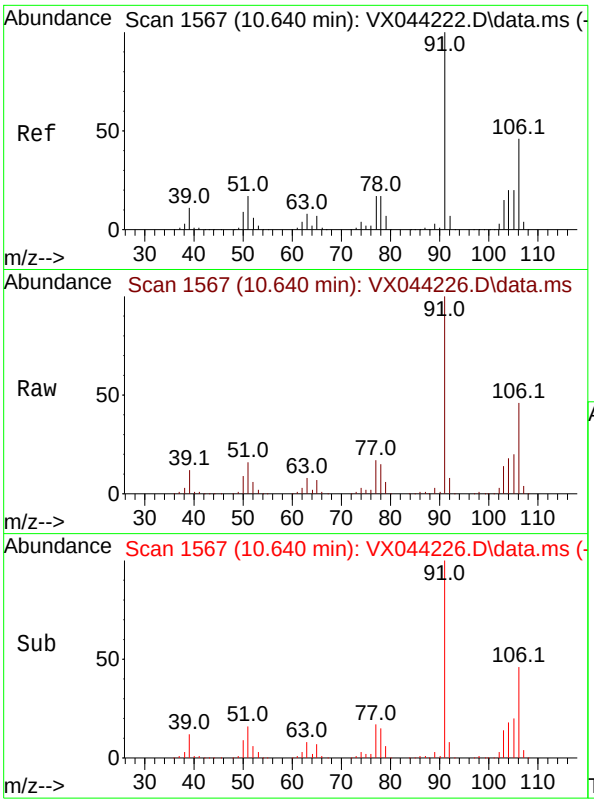


#68
m/p-Xylenes
Concen: 99.896 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:106 Resp: 285774

Ion	Ratio	Lower	Upper
106	100		
91	214.6	170.2	255.2



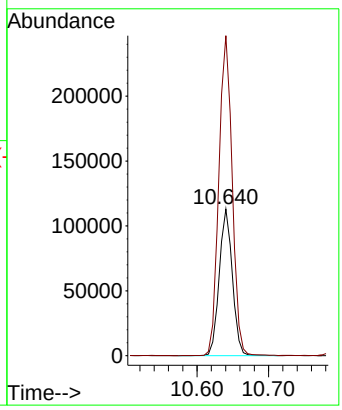


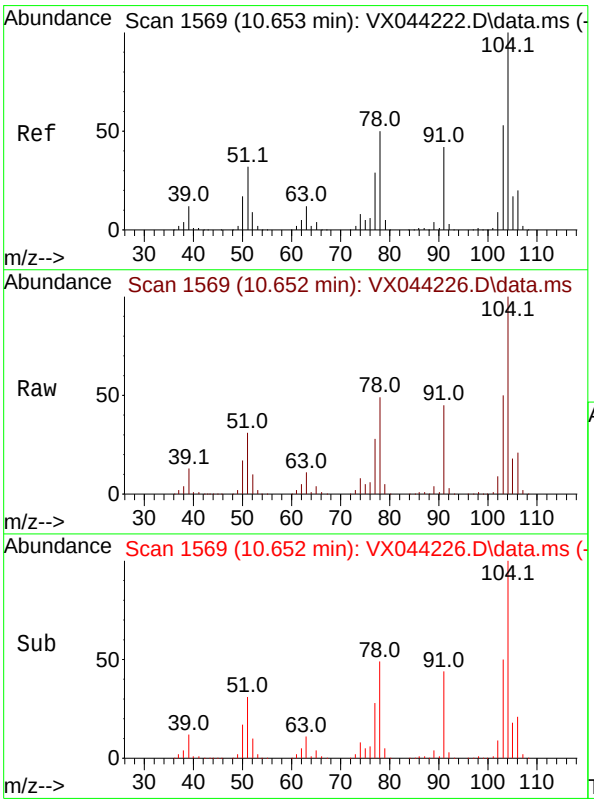
#69
o-Xylene
Concen: 49.750 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:106 Resp: 144001

Ion	Ratio	Lower	Upper
106	100		
91	221.9	112.3	337.0

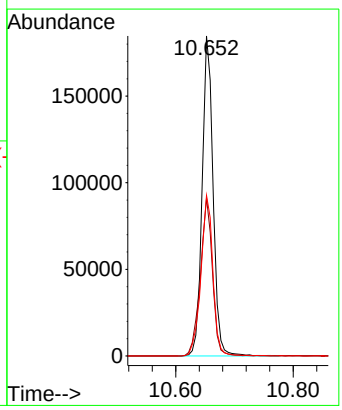


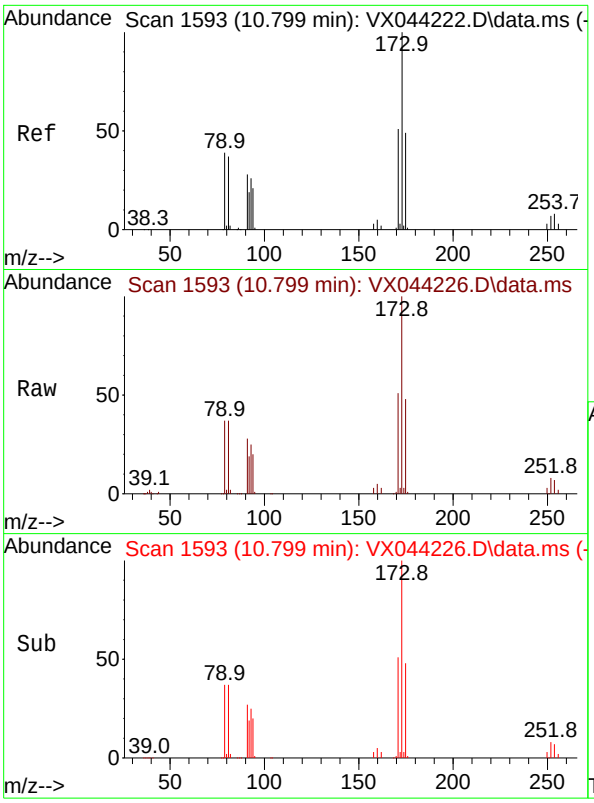


#70
Styrene
Concen: 51.617 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:104 Resp: 239508

Ion	Ratio	Lower	Upper
104	100		
78	54.5	44.6	67.0
103	54.9	45.4	68.0



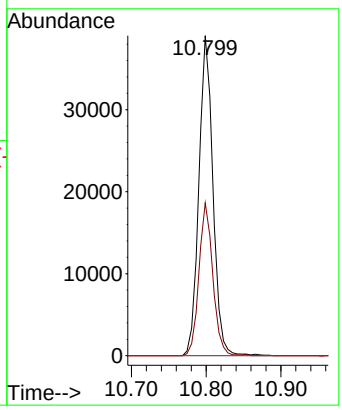


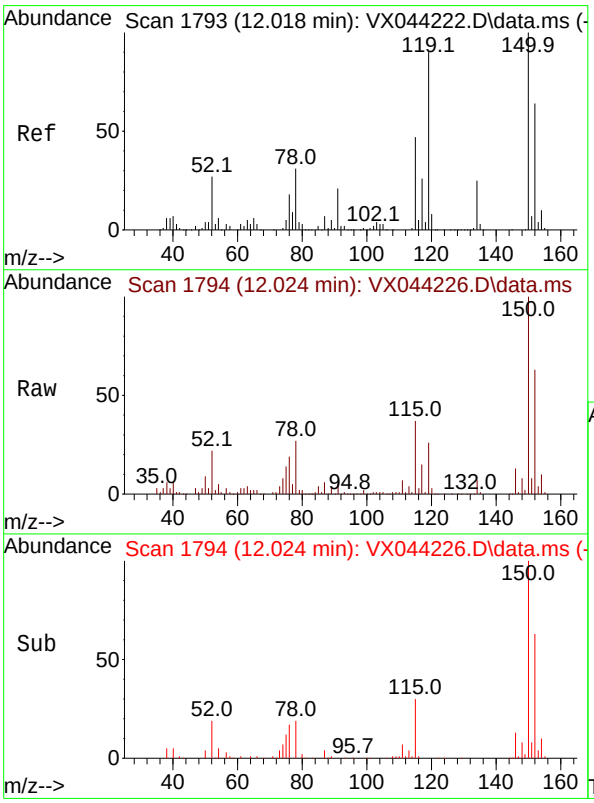
#71
Bromoform
Concen: 50.269 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:173 Resp: 50972

Ion	Ratio	Lower	Upper
173	100		
175	47.1	23.8	71.4
254	0.0	0.0	0.0

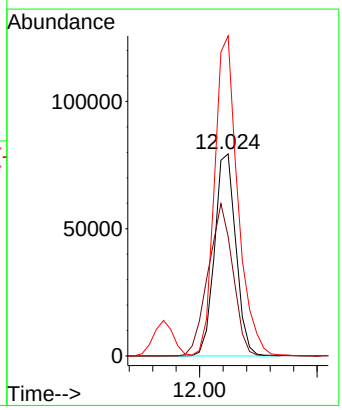


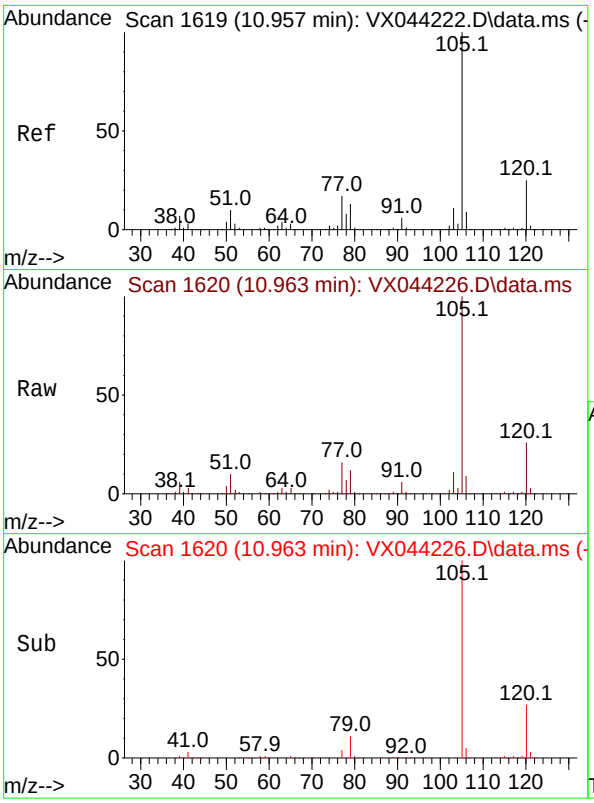


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:152 Resp: 99879

Ion	Ratio	Lower	Upper
152	100		
115	87.8	44.5	133.3
150	172.2	0.0	353.8



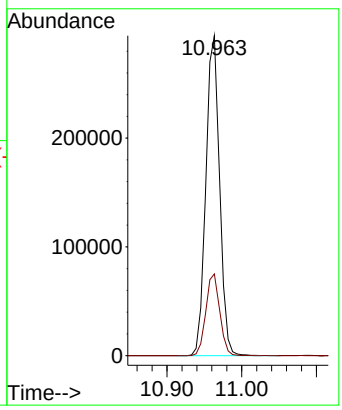


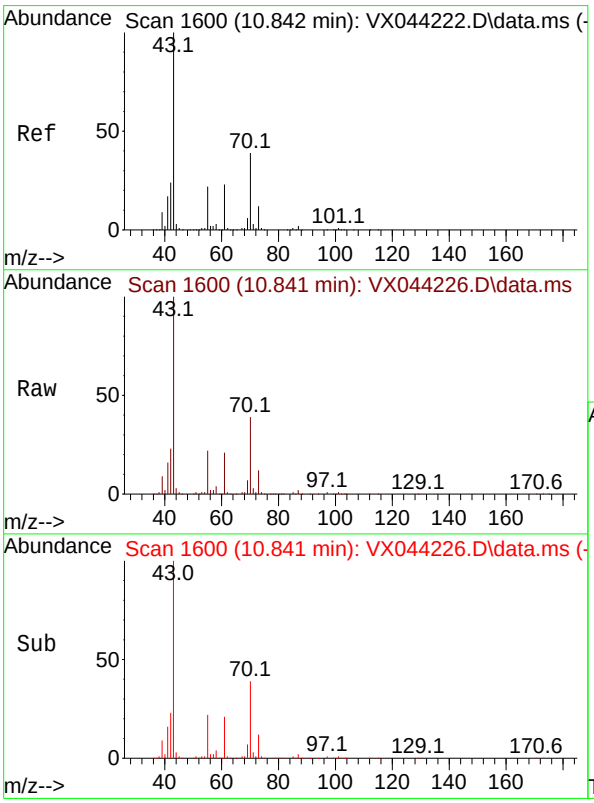
#73
Isopropylbenzene
Concen: 49.014 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:105 Resp: 374769

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.1	39.3

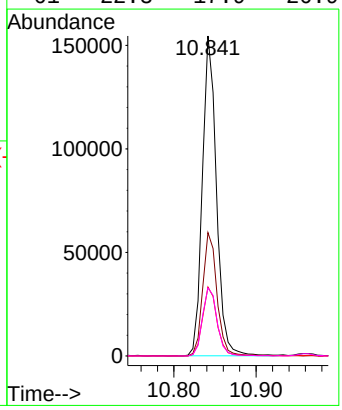


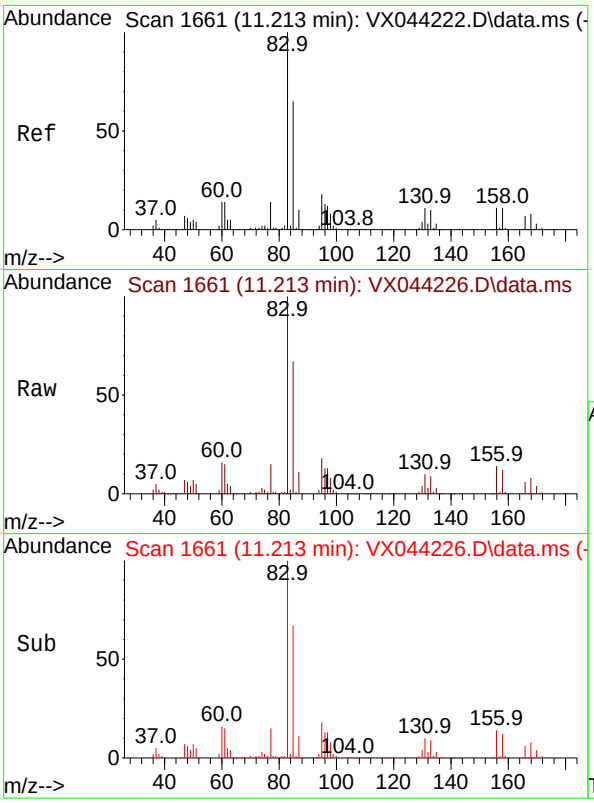


#74
N-amyl acetate
Concen: 52.003 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 183763

Ion	Ratio	Lower	Upper
43	100		
70	39.0	31.9	47.9
55	22.4	17.9	26.9
61	22.3	17.9	26.9



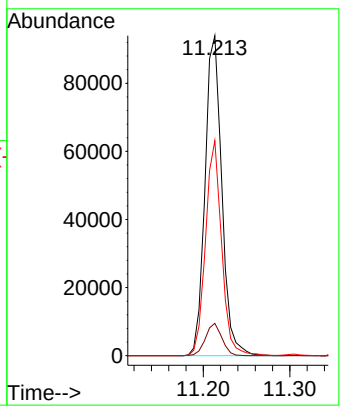


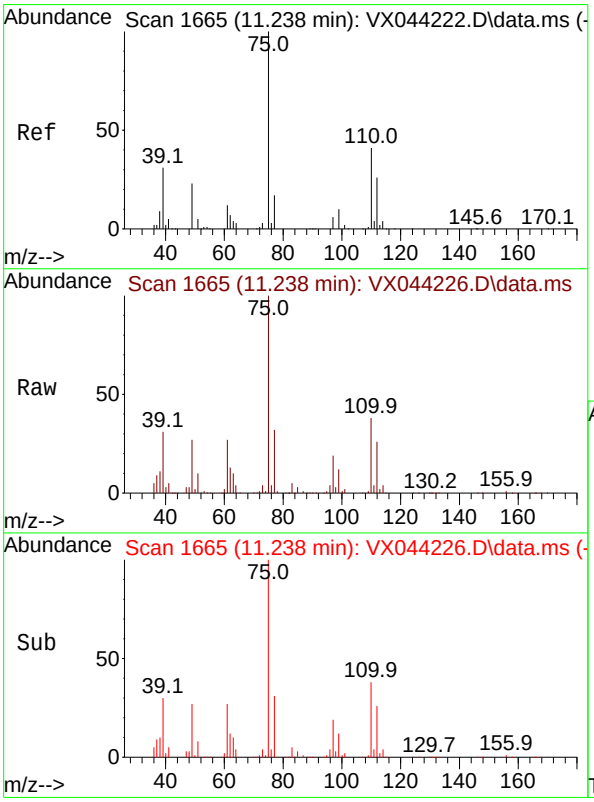
#75
1,1,2,2-Tetrachloroethane
Concen: 47.676 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 83 Resp: 126615

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	64.4	32.5	97.4

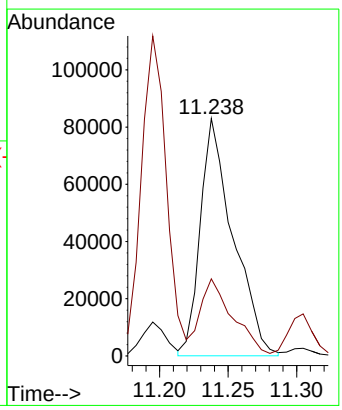


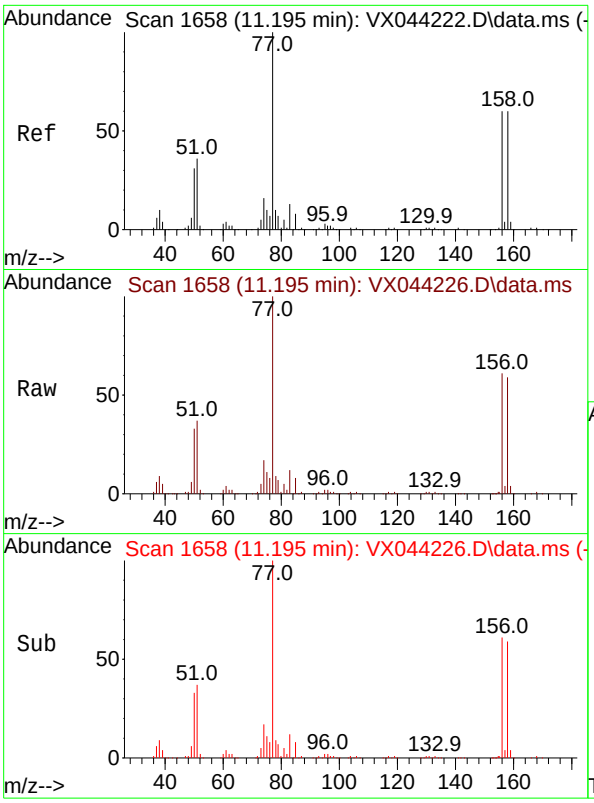


#76
1,2,3-Trichloropropane
Concen: 62.060 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 138398

Ion	Ratio	Lower	Upper
75	100		
77	32.5	20.9	62.7



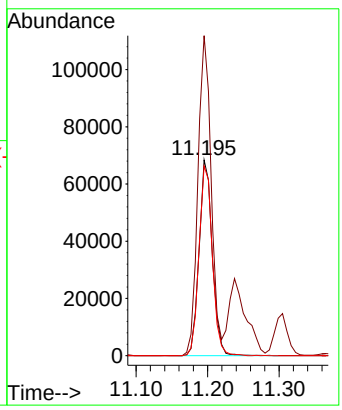


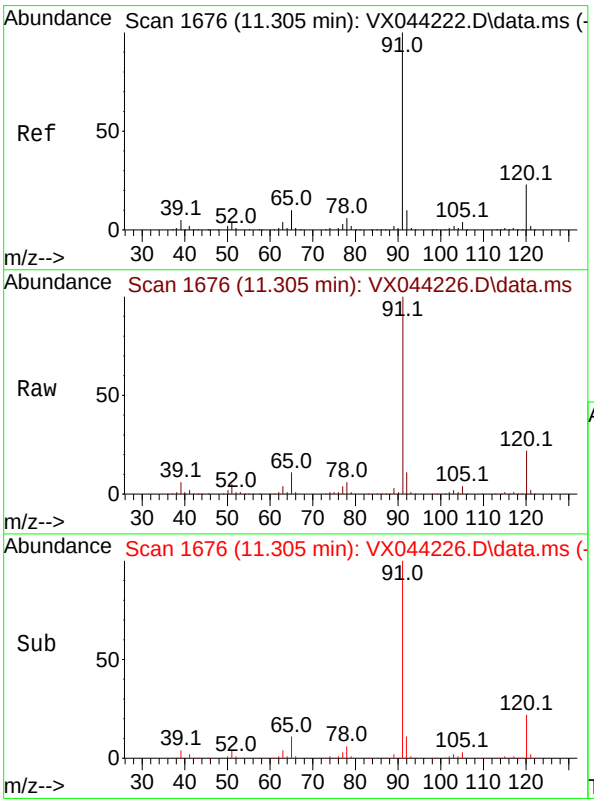
#77
Bromobenzene
Concen: 47.335 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:156 Resp: 87767

Ion	Ratio	Lower	Upper
156	100		
77	163.4	82.6	247.8
158	98.0	48.8	146.4

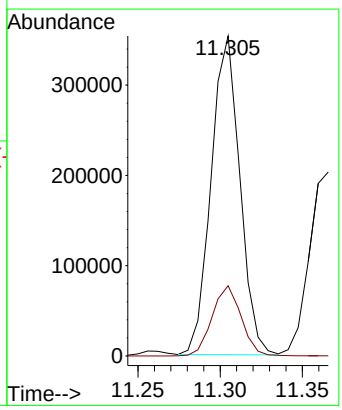


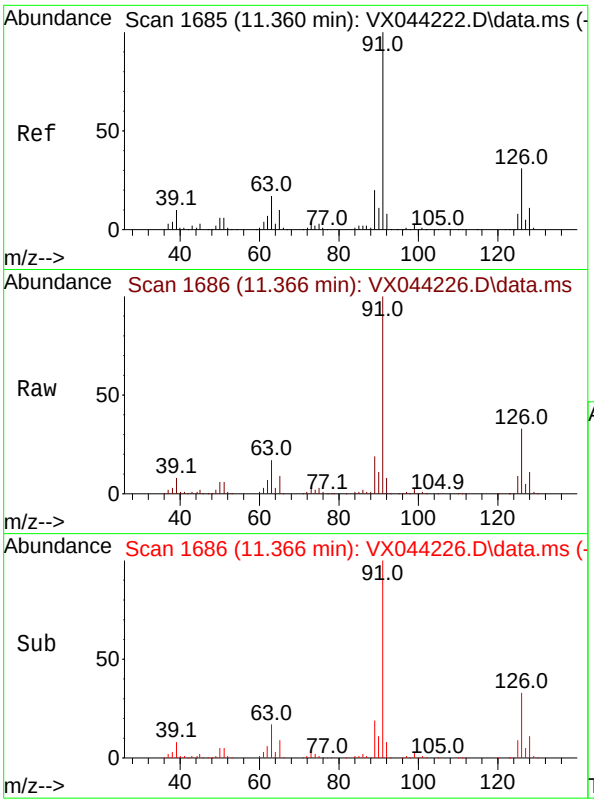


#78
n-propylbenzene
Concen: 50.816 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 91 Resp: 429443

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.0	33.0



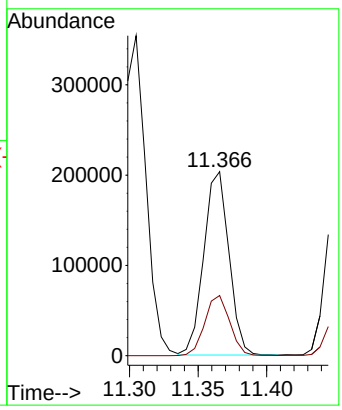


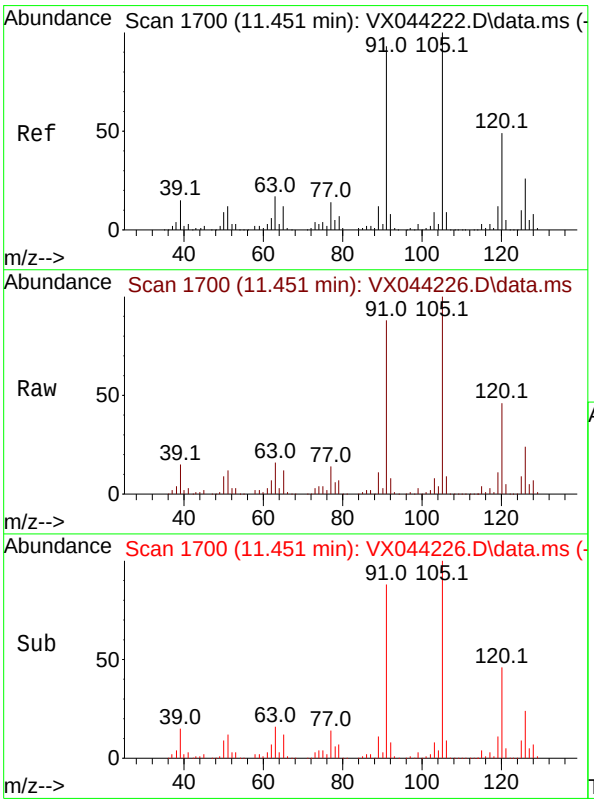
#79
2-Chlorotoluene
Concen: 47.546 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 91 Resp: 259860

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.4	49.1

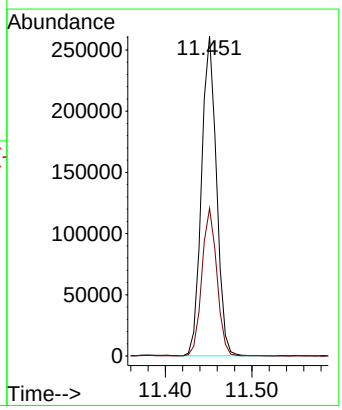


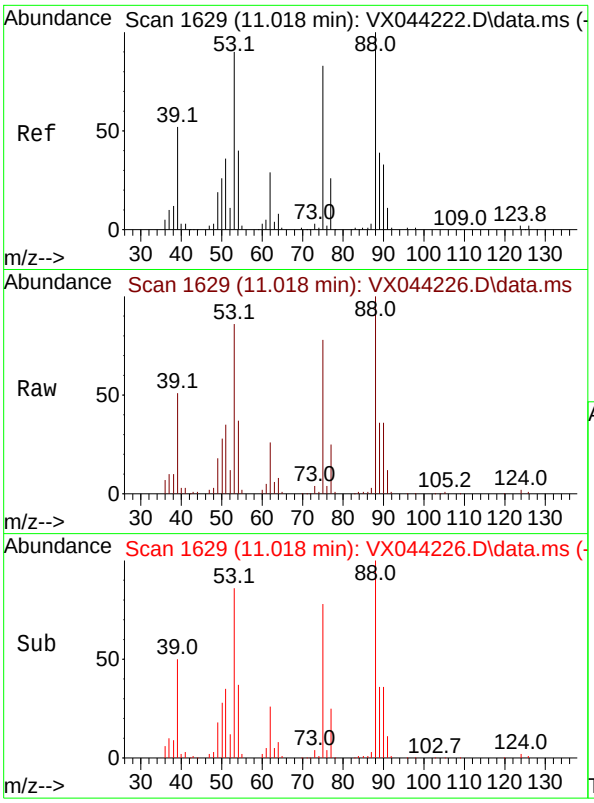


#80
1,3,5-Trimethylbenzene
Concen: 49.431 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:105 Resp: 313435

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.8	71.4



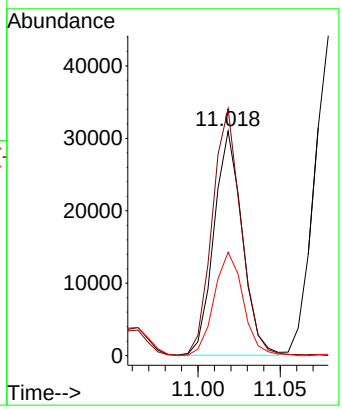


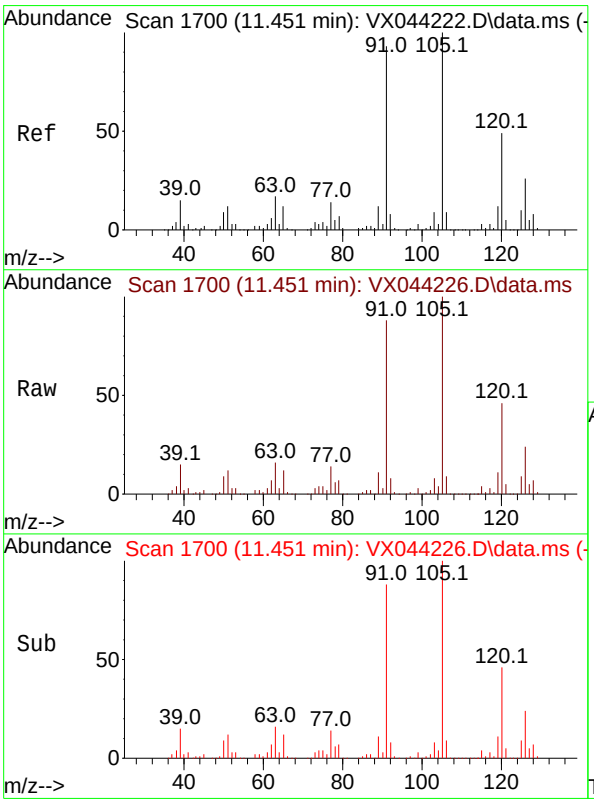
#81
trans-1,4-Dichloro-2-butene
Concen: 47.861 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 75 Resp: 37038

Ion	Ratio	Lower	Upper
75	100		
53	112.6	93.6	140.4
89	47.5	37.3	55.9

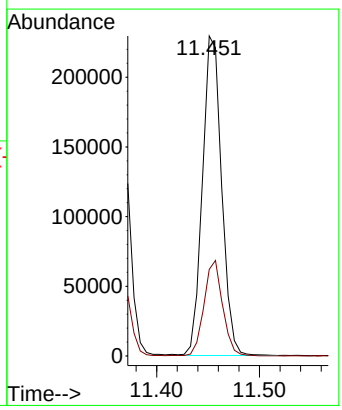


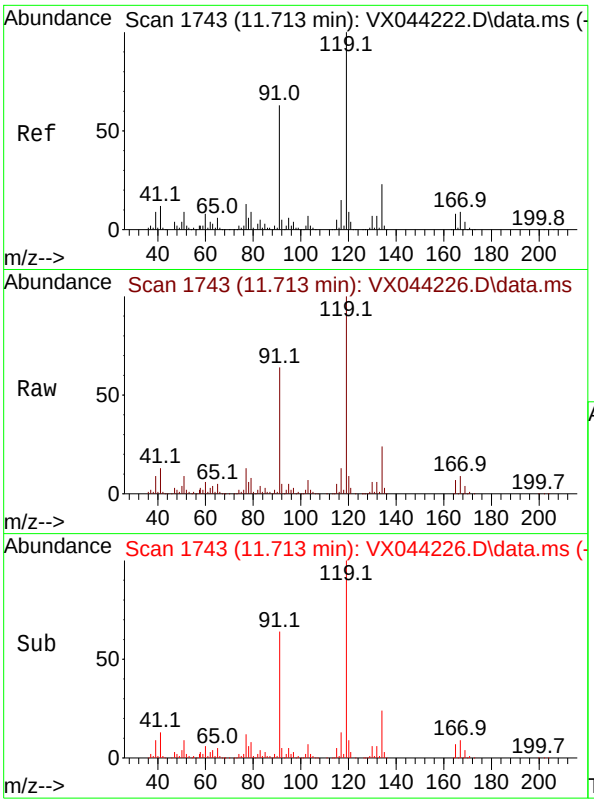


#82
4-Chlorotoluene
Concen: 49.178 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 91 Resp: 297641

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.5	43.5



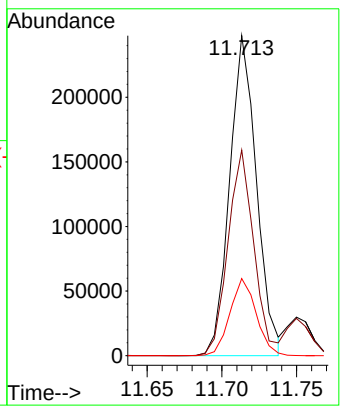


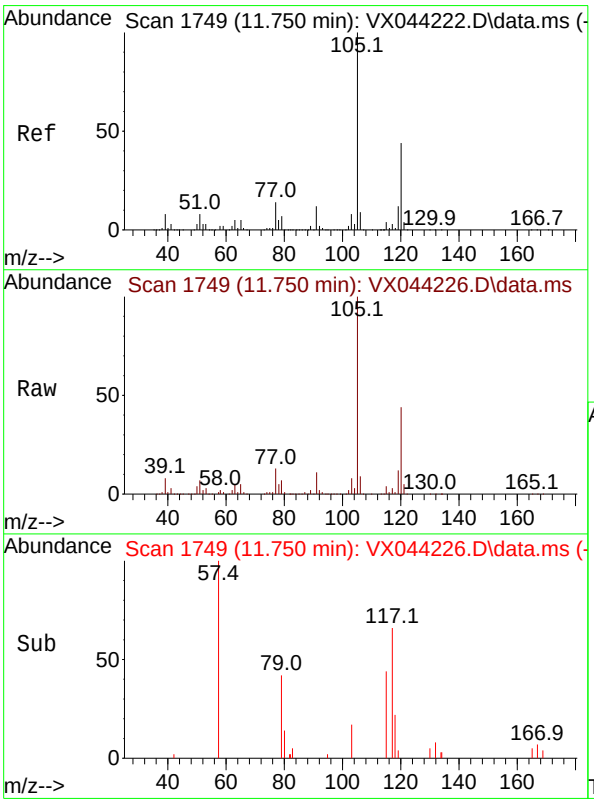
#83
tert-Butylbenzene
Concen: 49.384 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:119 Resp: 309463

Ion	Ratio	Lower	Upper
119	100		
91	62.1	30.9	92.5
134	23.6	11.5	34.4

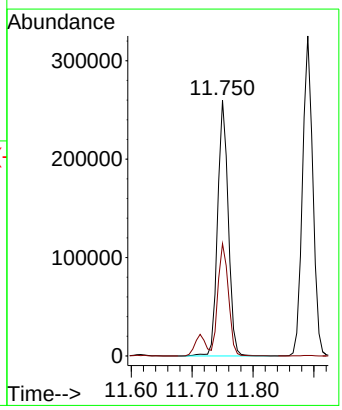


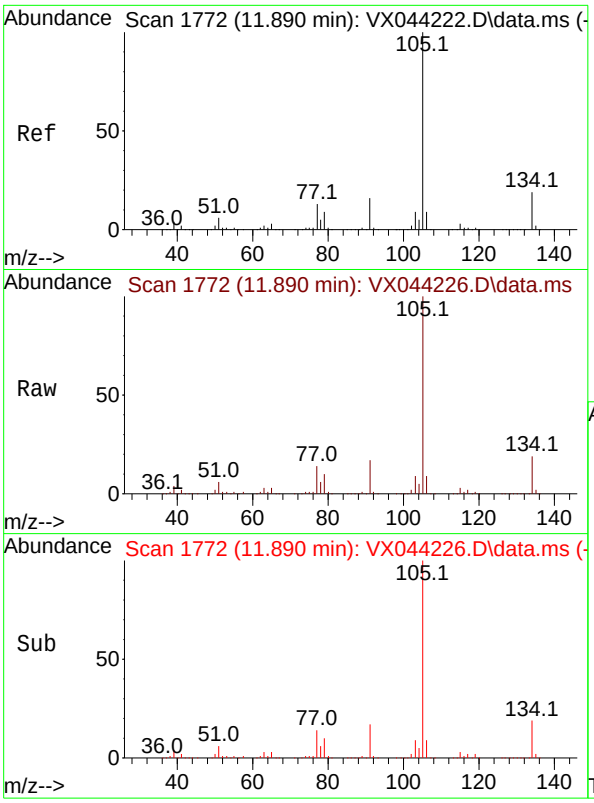


#84
1,2,4-Trimethylbenzene
Concen: 50.333 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:105 Resp: 313433

Ion	Ratio	Lower	Upper
105	100		
120	43.3	21.7	65.1



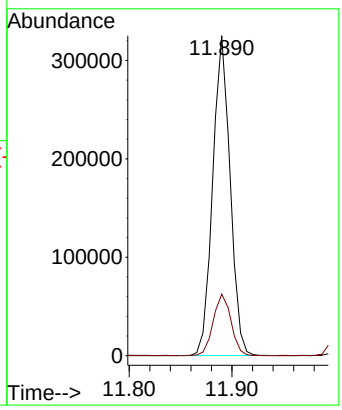


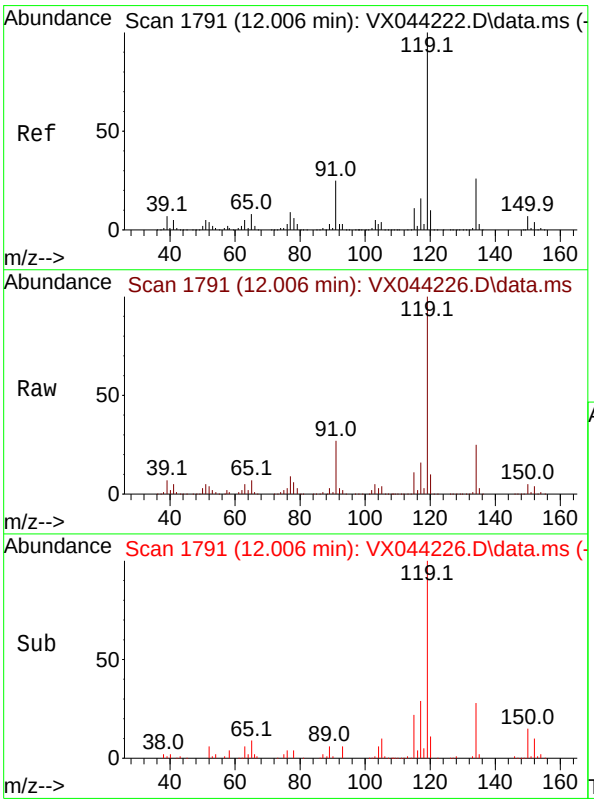
#85
sec-Butylbenzene
Concen: 50.097 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:105 Resp: 381109

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.4

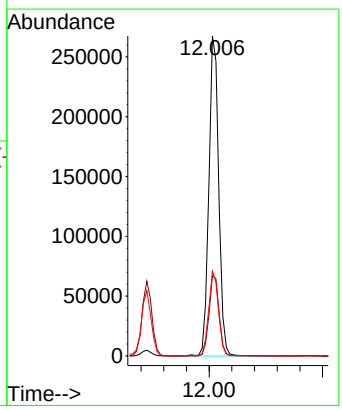


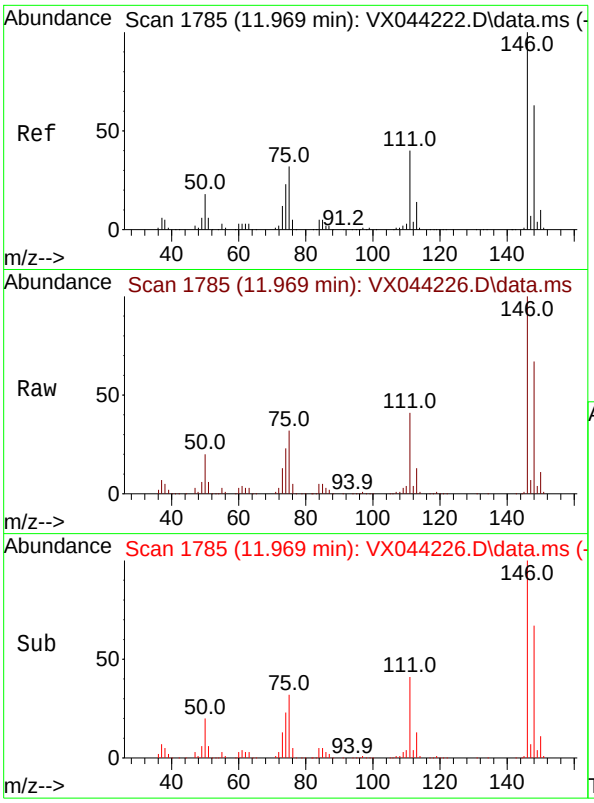


#86
p-Isopropyltoluene
Concen: 50.678 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:119 Resp: 320882

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.8	38.4
91	26.3	13.0	39.0



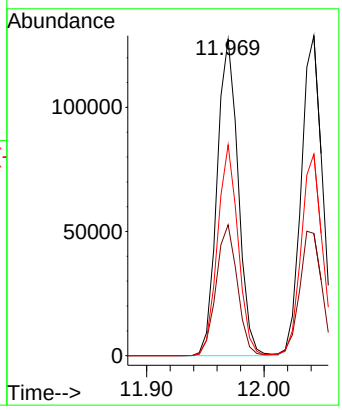


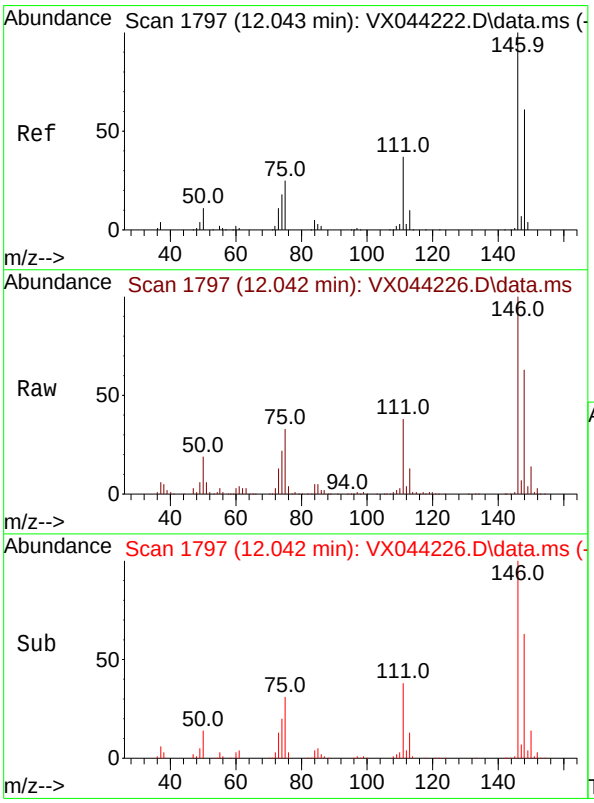
#87
1,3-Dichlorobenzene
Concen: 49.122 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:146 Resp: 159094

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.4	64.2
148	64.7	31.7	95.1

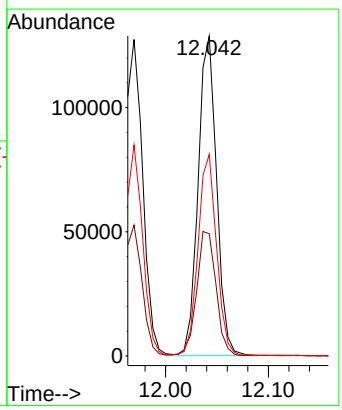


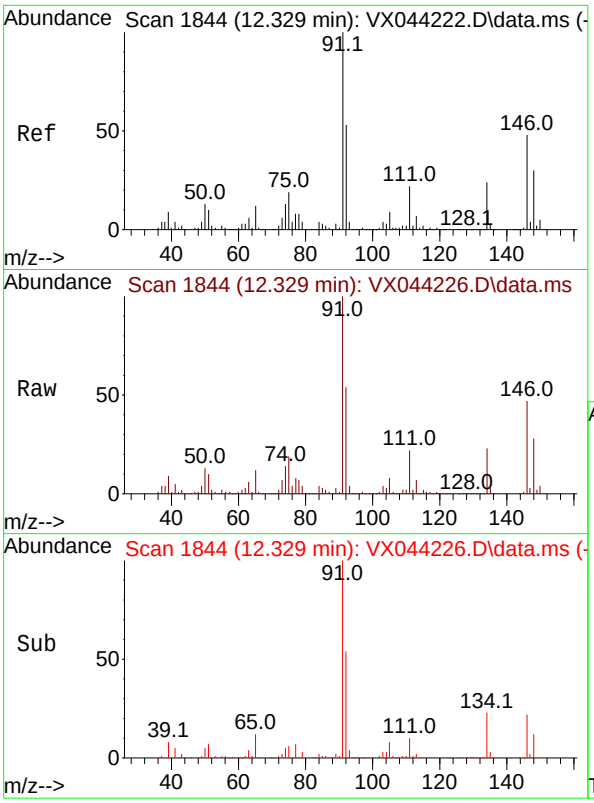


#88
1,4-Dichlorobenzene
Concen: 48.280 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:146 Resp: 160742

Ion	Ratio	Lower	Upper
146	100		
111	41.1	21.0	63.0
148	63.6	32.3	96.8



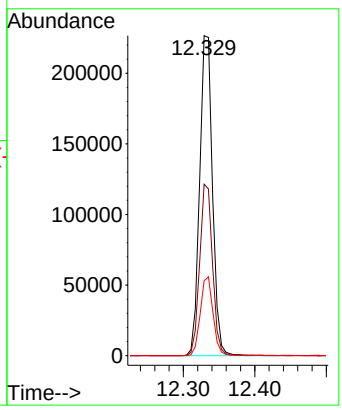


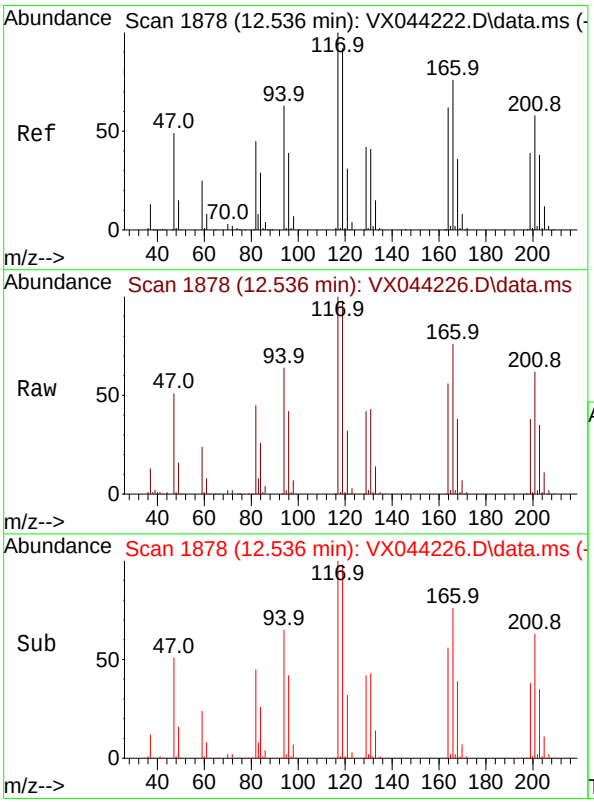
#89
n-Butylbenzene
Concen: 53.207 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 91 Resp: 283284

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.6	79.7
134	24.3	12.6	37.8

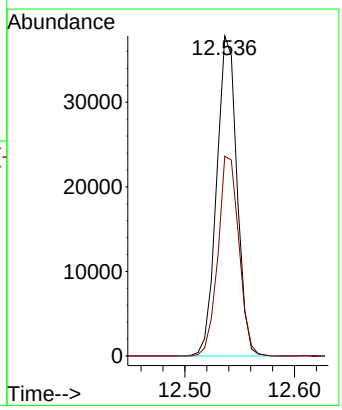


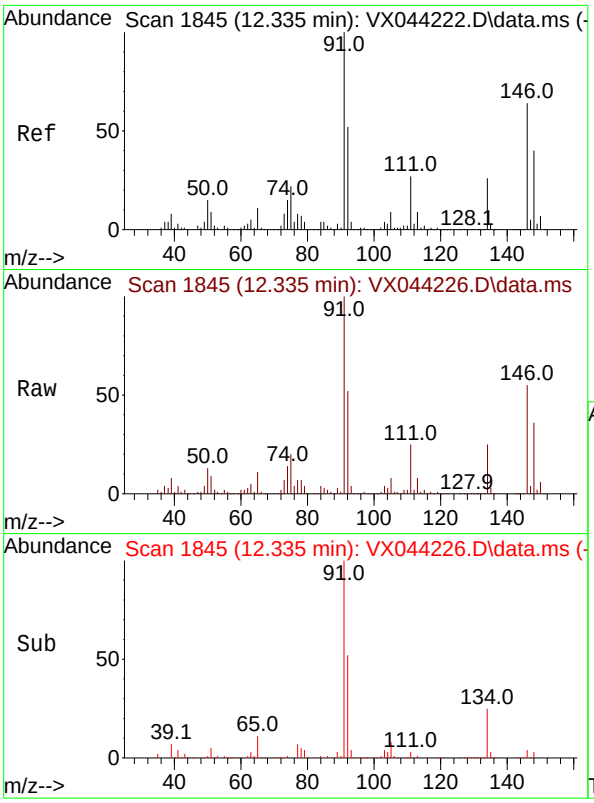


#90
Hexachloroethane
Concen: 52.727 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:117 Resp: 48734

Ion	Ratio	Lower	Upper
117	100		
201	64.3	31.4	94.2



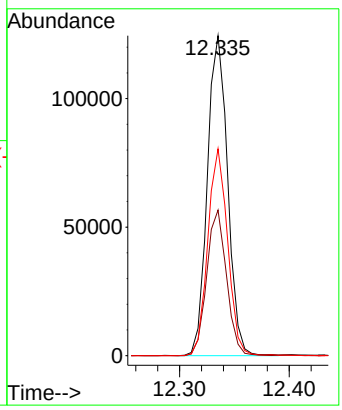


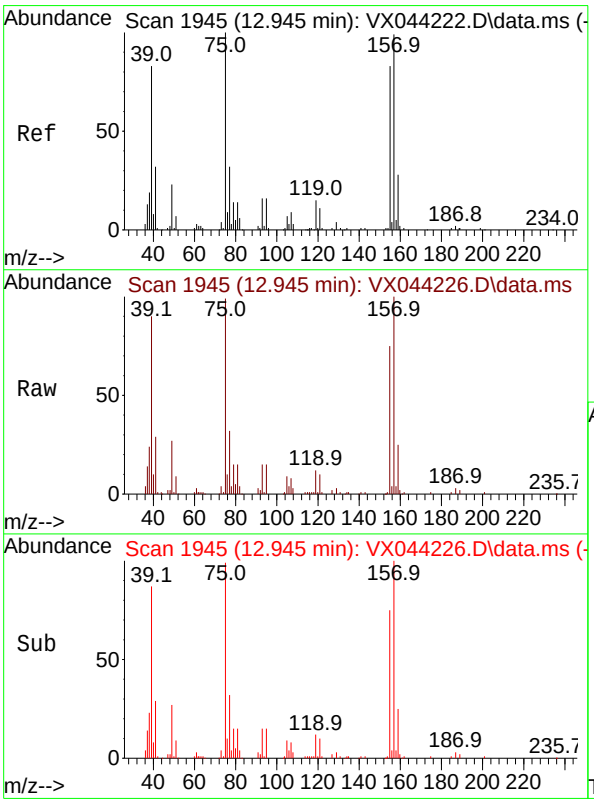
#91
1,2-Dichlorobenzene
Concen: 47.589 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:146 Resp: 160039

Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.4	64.3
148	63.4	31.6	95.0

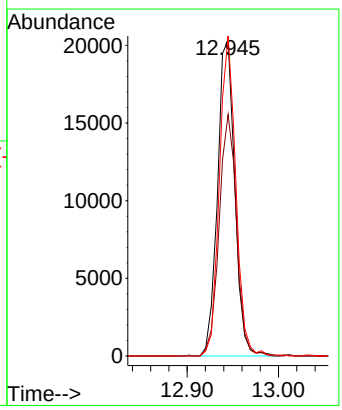


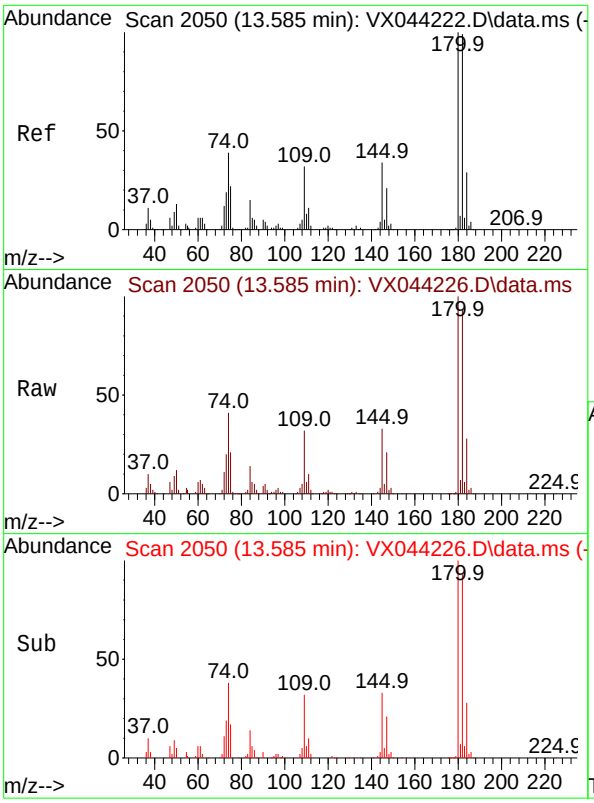


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.864 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 26738

Ion	Ratio	Lower	Upper
75	100		
155	76.5	38.1	114.3
157	96.3	47.2	141.6



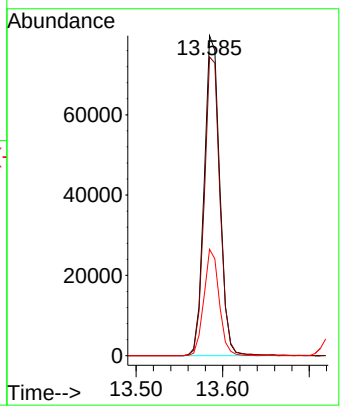


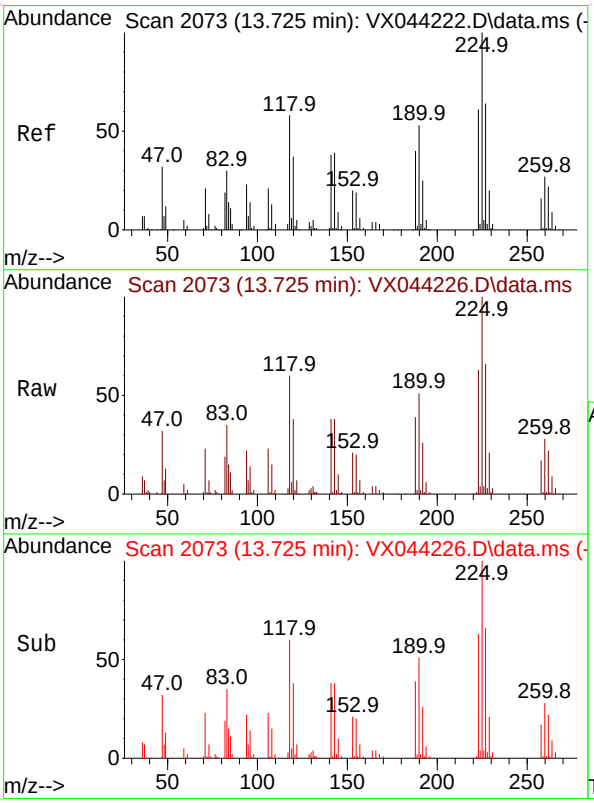
#93
1,2,4-Trichlorobenzene
Concen: 53.940 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:180 Resp: 99449

Ion	Ratio	Lower	Upper
180	100		
182	94.3	48.0	144.2
145	32.6	16.6	49.7

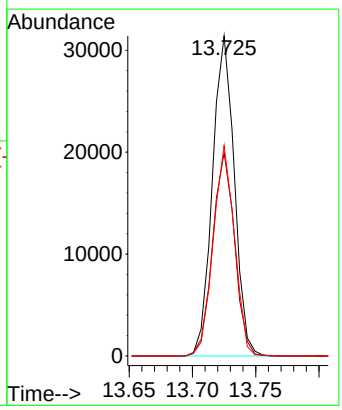


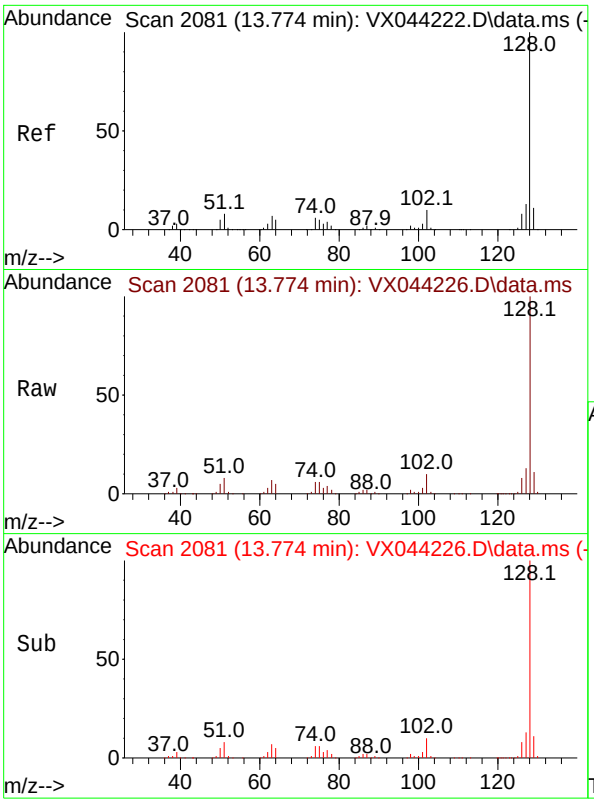


#94
Hexachlorobutadiene
Concen: 50.770 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:225 Resp: 37651

Ion	Ratio	Lower	Upper
225	100		
223	63.9	30.8	92.4
227	63.7	32.1	96.3



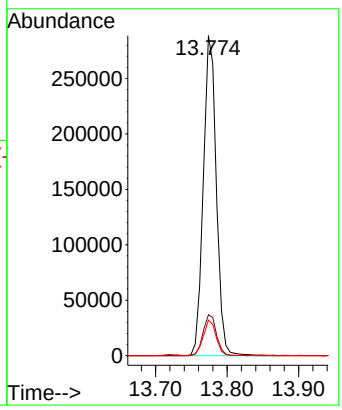


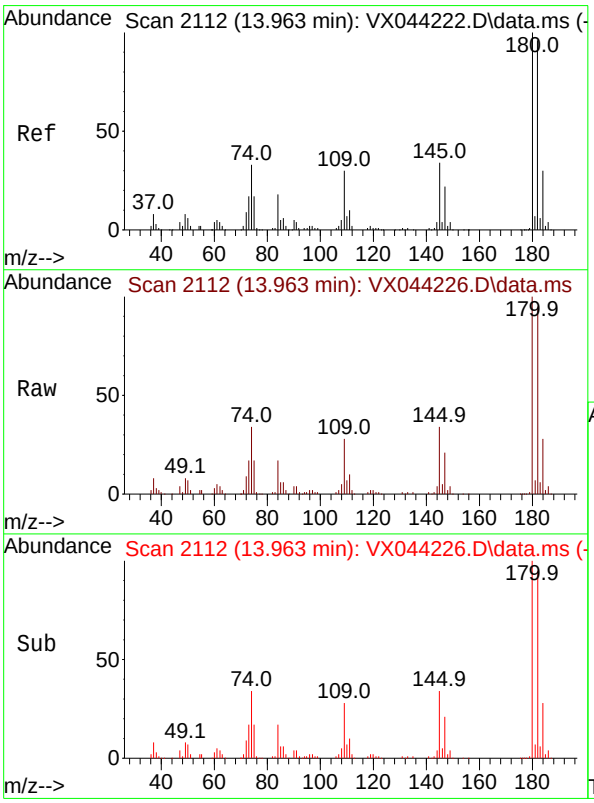
#95
Naphthalene
Concen: 50.827 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:128 Resp: 365781

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	10.9	9.0	13.4

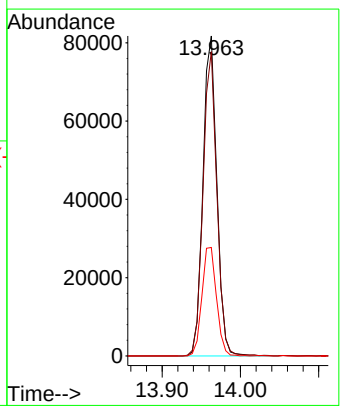




#96
1,2,3-Trichlorobenzene
Concen: 51.244 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:180 Resp: 100209

Ion	Ratio	Lower	Upper
180	100		
182	95.2	48.0	144.0
145	35.7	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044397.D
Acq On : 18 Dec 2024 21:48
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 19 00:54:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	135217	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	239936	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	204282	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	94679	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	107888	45.507	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 91.020%			
35) Dibromofluoromethane	5.379	113	85012	51.157	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.320%			
50) Toluene-d8	8.647	98	281622	50.233	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.460%			
62) 4-Bromofluorobenzene	11.079	95	96109	49.060	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.120%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	107432	51.383	ug/l	98
3) Chloromethane	1.295	50	108198	54.116	ug/l	100
4) Vinyl Chloride	1.374	62	110360	52.982	ug/l	98
5) Bromomethane	1.593	94	72410	49.001	ug/l	99
6) Chloroethane	1.666	64	78870	60.808	ug/l	97
7) Trichlorofluoromethane	1.868	101	173515	42.551	ug/l	99
8) Diethyl Ether	2.130	74	68057	48.894	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	81792	49.568	ug/l	98
10) Methyl Iodide	2.441	142	120260	55.298	ug/l	97
11) Tert butyl alcohol	2.989	59	77901	233.146	ug/l	98
12) 1,1-Dichloroethene	2.307	96	81977	54.088	ug/l	98
13) Acrolein	2.233	56	139192	287.785	ug/l	99
14) Allyl chloride	2.654	41	132780	52.597	ug/l	97
15) Acrylonitrile	3.069	53	244567	264.238	ug/l	99
16) Acetone	2.386	43	213764	221.165	ug/l	98
17) Carbon Disulfide	2.502	76	158857	55.140	ug/l	99
18) Methyl Acetate	2.709	43	124059	49.781	ug/l	95
19) Methyl tert-butyl Ether	3.117	73	292313	49.423	ug/l	99
20) Methylene Chloride	2.782	84	93795	51.666	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	84135	52.232	ug/l	96
22) Diisopropyl ether	3.764	45	287589	50.590	ug/l	97
23) Vinyl Acetate	3.721	43	1248223	270.083	ug/l	98
24) 1,1-Dichloroethane	3.605	63	166932	52.681	ug/l	99
25) 2-Butanone	4.562	43	339552	247.114	ug/l	98
26) 2,2-Dichloropropane	4.471	77	111451	43.294	ug/l	94
27) cis-1,2-Dichloroethene	4.483	96	103578	50.631	ug/l	96
28) Bromochloromethane	4.891	49	74260	47.791	ug/l	99
29) Tetrahydrofuran	5.007	42	217698	246.831	ug/l	99
30) Chloroform	5.093	83	176742	49.644	ug/l	100
31) Cyclohexane	5.458	56	126871	49.582	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	152533	51.614	ug/l	100
36) 1,1-Dichloropropene	5.690	75	110493	51.438	ug/l	98
37) Ethyl Acetate	4.721	43	136208	51.297	ug/l	98
38) Carbon Tetrachloride	5.672	117	120403	52.064	ug/l	95
39) Methylcyclohexane	7.379	83	130669	50.884	ug/l	97
40) Benzene	6.031	78	353789	54.246	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044397.D
Acq On : 18 Dec 2024 21:48
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 19 00:54:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	74342	52.726	ug/l		97
42) 1,2-Dichloroethane	6.080	62	135405	50.400	ug/l		97
43) Isopropyl Acetate	6.342	43	215421	51.907	ug/l		98
44) Trichloroethene	7.123	130	85228	52.403	ug/l		99
45) 1,2-Dichloropropane	7.428	63	87563	52.551	ug/l		95
46) Dibromomethane	7.580	93	68412	52.923	ug/l		95
47) Bromodichloromethane	7.824	83	123638	55.381	ug/l		99
48) Methyl methacrylate	7.696	41	100291	49.782	ug/l		96
49) 1,4-Dioxane	7.665	88	25452	762.005	ug/l	#	77
51) 4-Methyl-2-Pentanone	8.574	43	682557	255.786	ug/l		98
52) Toluene	8.720	92	214145	52.287	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	115357	48.259	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	131957	54.285	ug/l		100
55) 1,1,2-Trichloroethane	9.153	97	87322	53.669	ug/l		97
56) Ethyl methacrylate	9.116	69	136992	53.333	ug/l		96
57) 1,3-Dichloropropane	9.305	76	147976	52.251	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	319257	246.430	ug/l		100
59) 2-Hexanone	9.433	43	498511	258.095	ug/l		99
60) Dibromochloromethane	9.519	129	85744	49.779	ug/l		100
61) 1,2-Dibromoethane	9.610	107	89694	54.158	ug/l		97
64) Tetrachloroethene	9.275	164	71547	52.769	ug/l		96
65) Chlorobenzene	10.079	112	230882	52.745	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	79028	56.175	ug/l		98
67) Ethyl Benzene	10.195	91	398506	52.690	ug/l		96
68) m/p-Xylenes	10.299	106	303258	109.271	ug/l		96
69) o-Xylene	10.640	106	149680	53.305	ug/l		97
70) Styrene	10.653	104	247455	54.971	ug/l		97
71) Bromoform	10.799	173	51387	52.002	ug/l	#	99
73) Isopropylbenzene	10.964	105	382227	52.735	ug/l		99
74) N-amyl acetate	10.842	43	175282	52.327	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	129501	51.441	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	137395	64.994	ug/l		85
77) Bromobenzene	11.195	156	91662	52.151	ug/l		98
78) n-propylbenzene	11.305	91	428354	53.471	ug/l		99
79) 2-Chlorotoluene	11.366	91	259611	50.109	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	312728	52.028	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	32905	45.206	ug/l		97
82) 4-Chlorotoluene	11.451	91	296313	51.648	ug/l		100
83) tert-Butylbenzene	11.713	119	315339	53.085	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	314902	53.346	ug/l		99
85) sec-Butylbenzene	11.890	105	378572	52.496	ug/l		99
86) p-Isopropyltoluene	12.006	119	308993	51.481	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	161986	52.762	ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	160295	50.790	ug/l		98
89) n-Butylbenzene	12.329	91	265516	52.608	ug/l		99
90) Hexachloroethane	12.536	117	48574	55.440	ug/l		96
91) 1,2-Dichlorobenzene	12.335	146	166397	52.197	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	23556	48.201	ug/l		92
93) 1,2,4-Trichlorobenzene	13.585	180	93745	53.639	ug/l		97
94) Hexachlorobutadiene	13.725	225	37797	53.766	ug/l		98
95) Naphthalene	13.774	128	341241	50.021	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	95779	51.669	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044397.D
Acq On : 18 Dec 2024 21:48
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 19 00:54:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

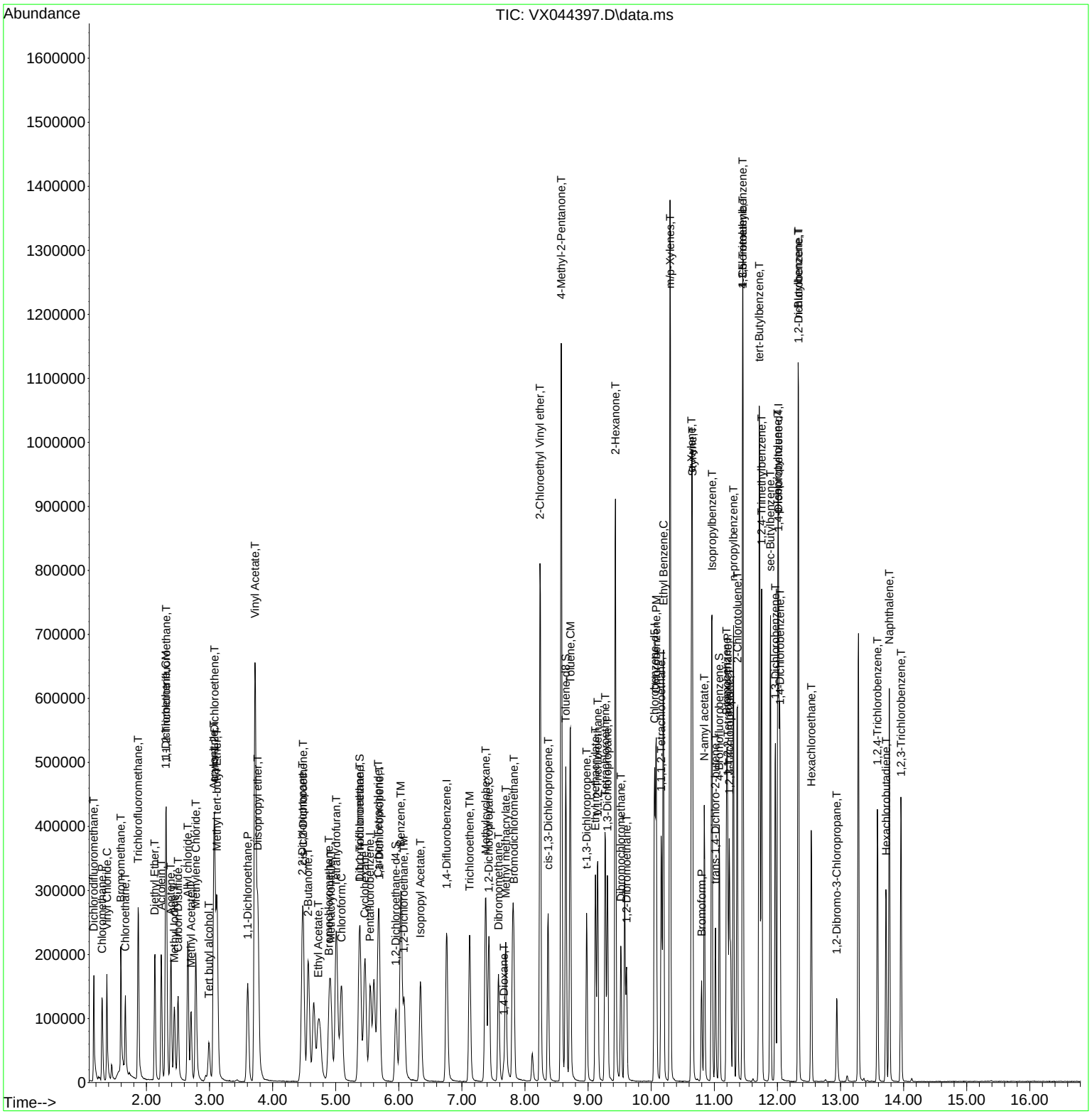
(#) = qualifier out of range (m) = manual integration (+) = signals summed

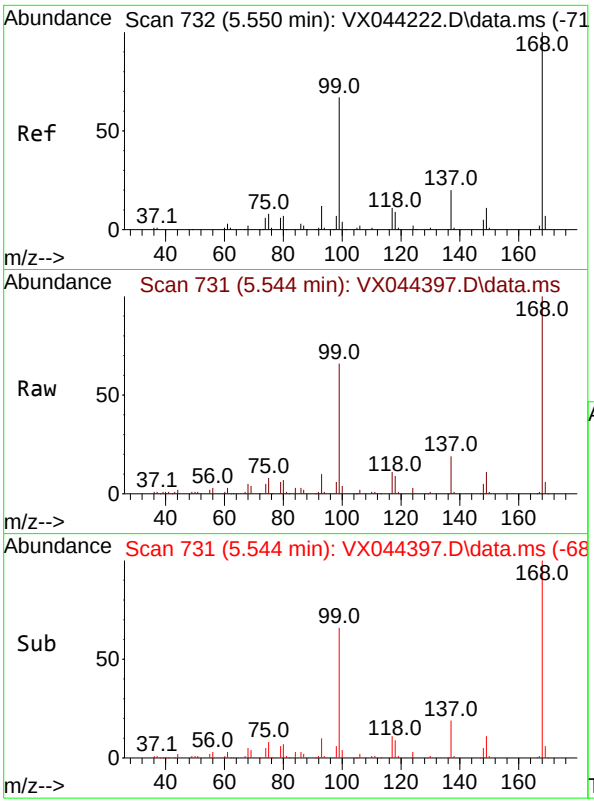
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044397.D
Acq On : 18 Dec 2024 21:48
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 19 00:54:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



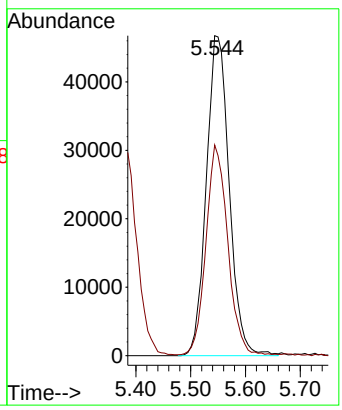


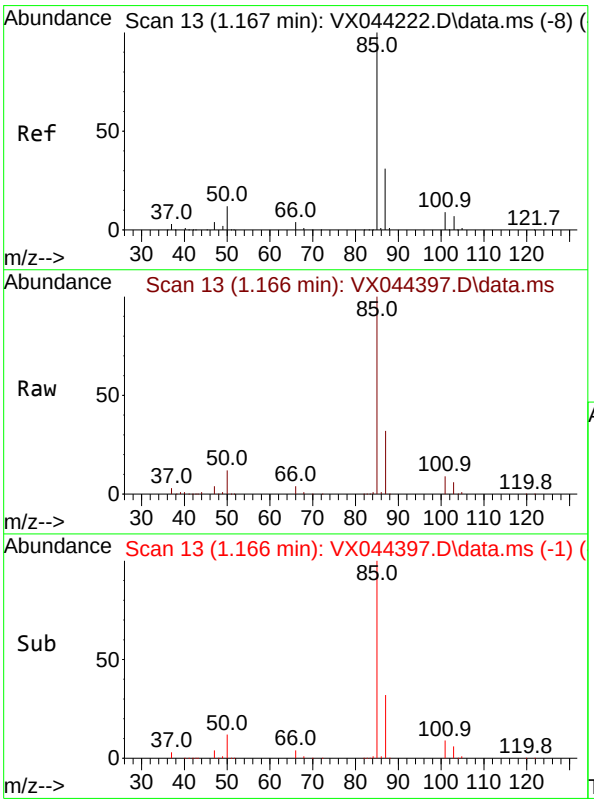
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 135217

Ion	Ratio	Lower	Upper
168	100		
99	65.5	53.4	80.0

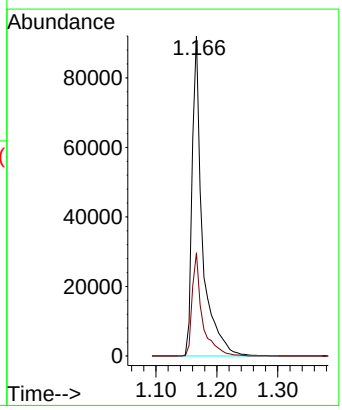


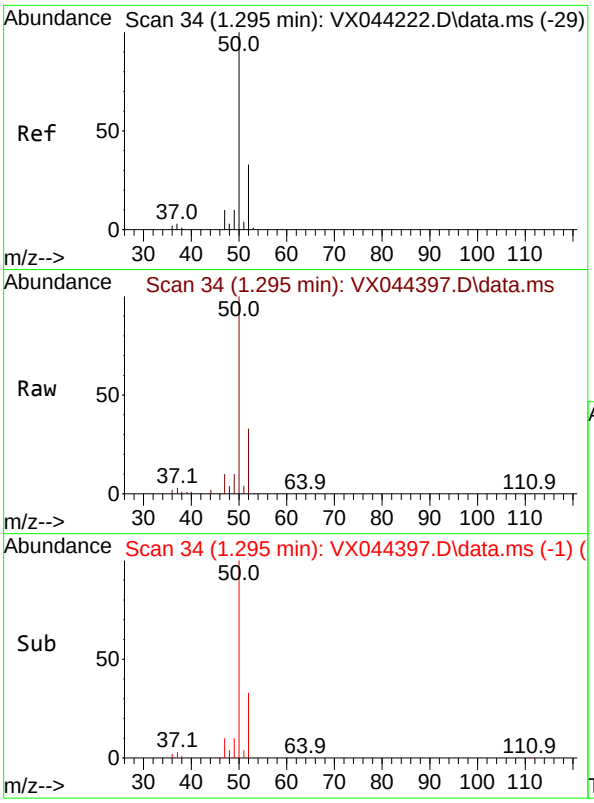


#2
Dichlorodifluoromethane
Concen: 51.383 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 85 Resp: 107432

Ion	Ratio	Lower	Upper
85	100		
87	32.2	15.4	46.4



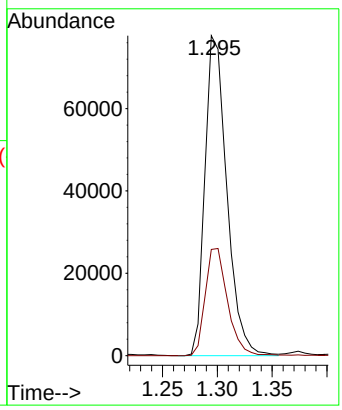


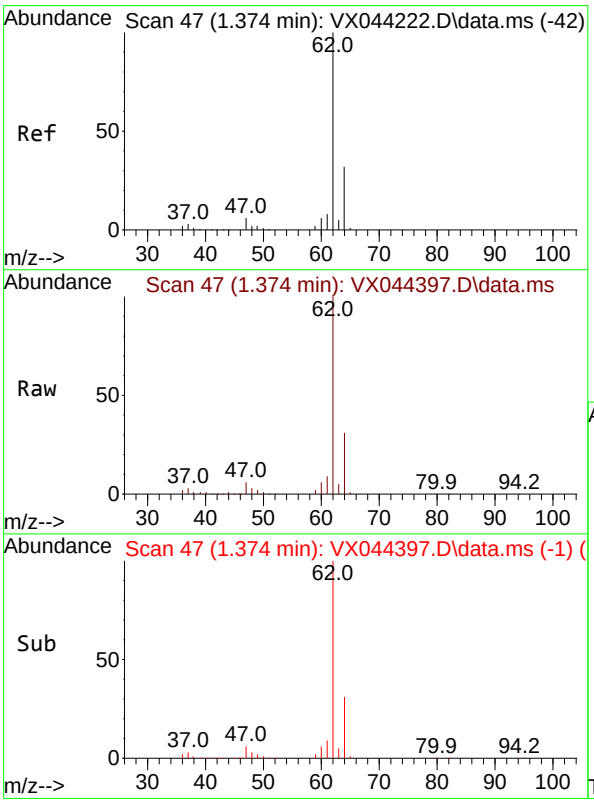
#3
Chloromethane
Concen: 54.116 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 108198

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.5	39.7

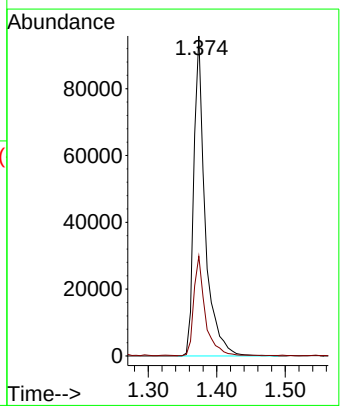


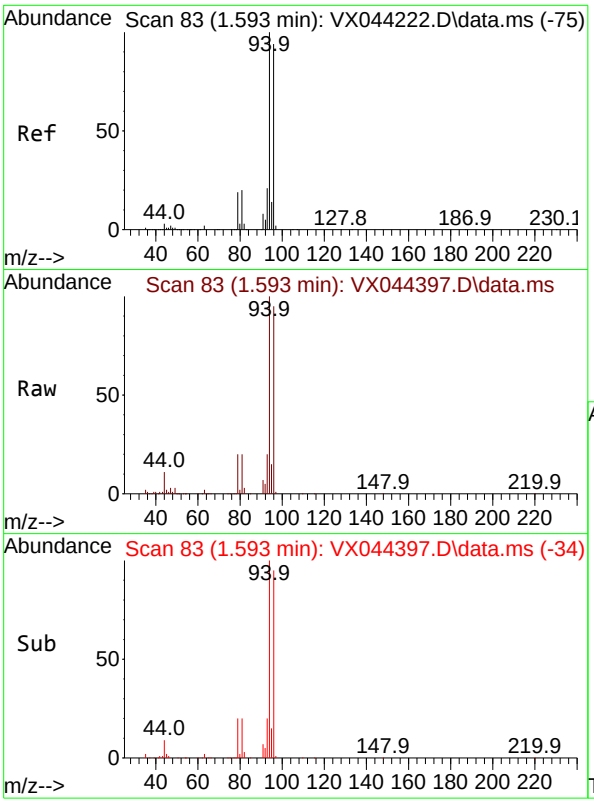


#4
Vinyl Chloride
Concen: 52.982 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 62 Resp: 110360

Ion	Ratio	Lower	Upper
62	100		
64	31.1	25.7	38.5



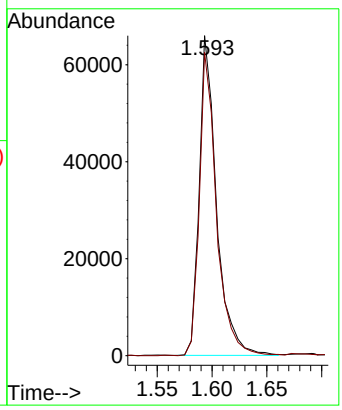


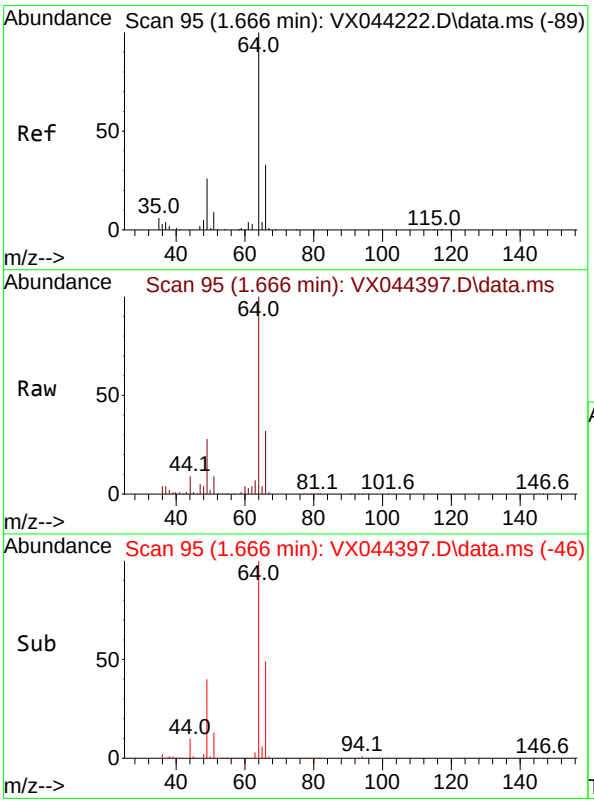
#5
Bromomethane
Concen: 49.001 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 72410

Ion	Ratio	Lower	Upper
94	100		
96	94.8	74.9	112.3

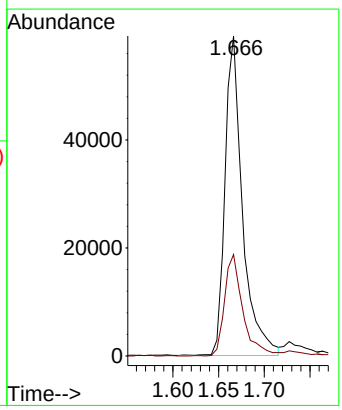


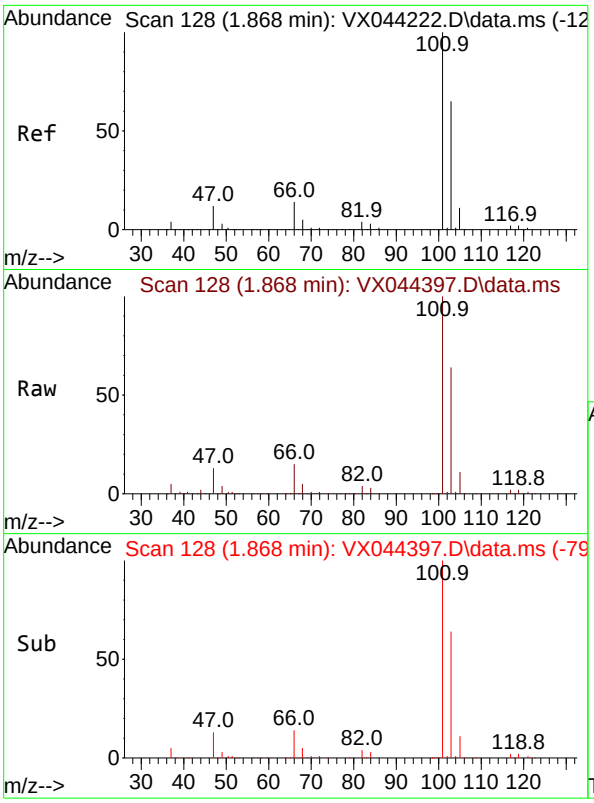


#6
Chloroethane
Concen: 60.808 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 64 Resp: 78870

Ion	Ratio	Lower	Upper
64	100		
66	31.8	26.6	39.8



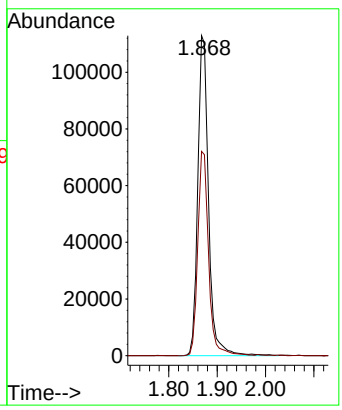


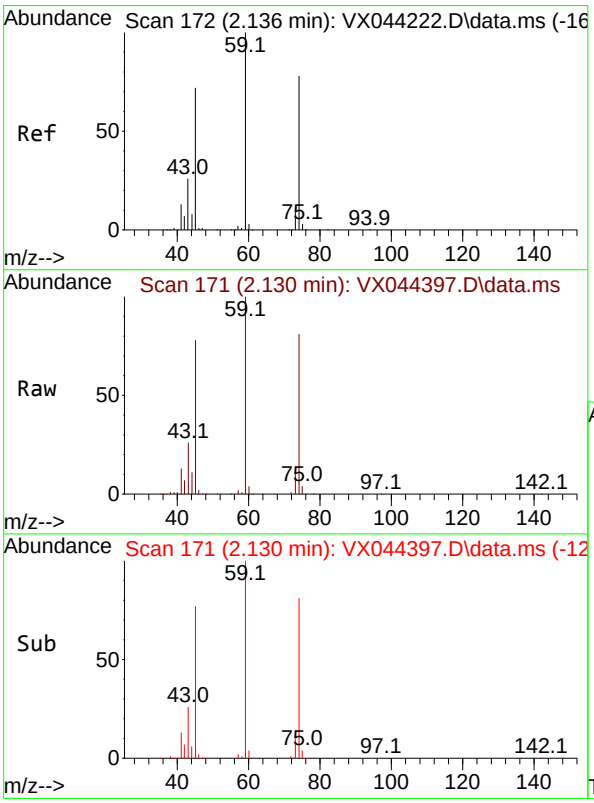
#7
Trichlorofluoromethane
Concen: 42.551 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 173515

Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.8	77.8

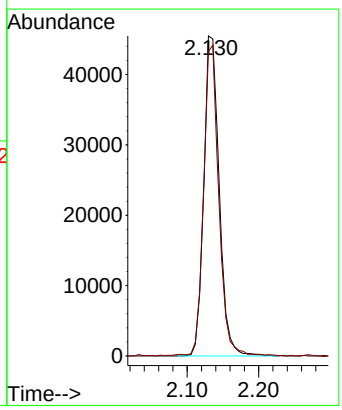


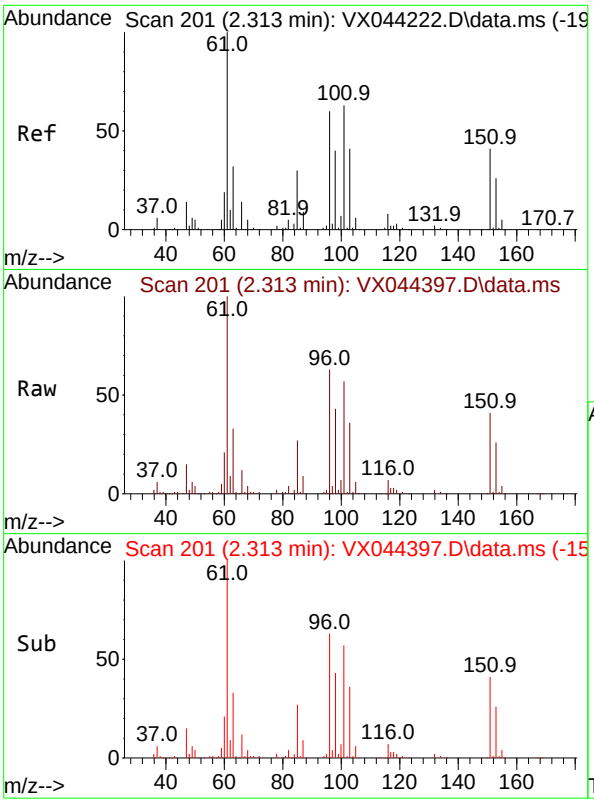


#8
Diethyl Ether
Concen: 48.894 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 74 Resp: 68057

Ion	Ratio	Lower	Upper
74	100		
45	96.2	48.4	145.0



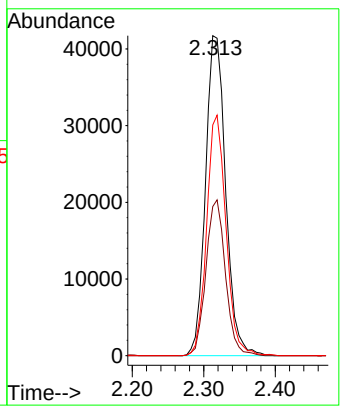


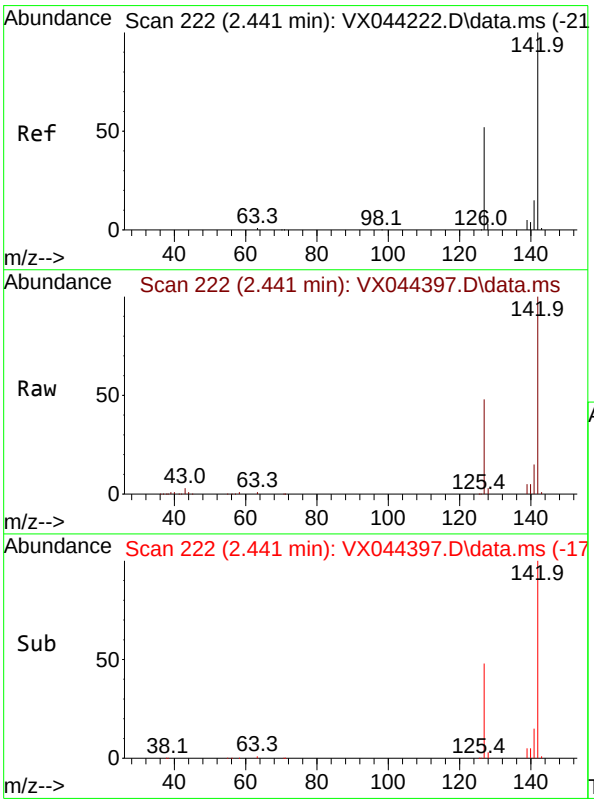
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.568 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 81792

Ion	Ratio	Lower	Upper
101	100		
85	47.2	38.5	57.7
151	72.2	55.8	83.6

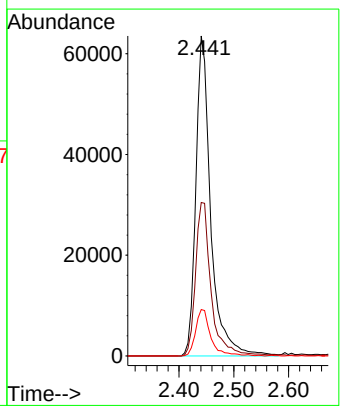


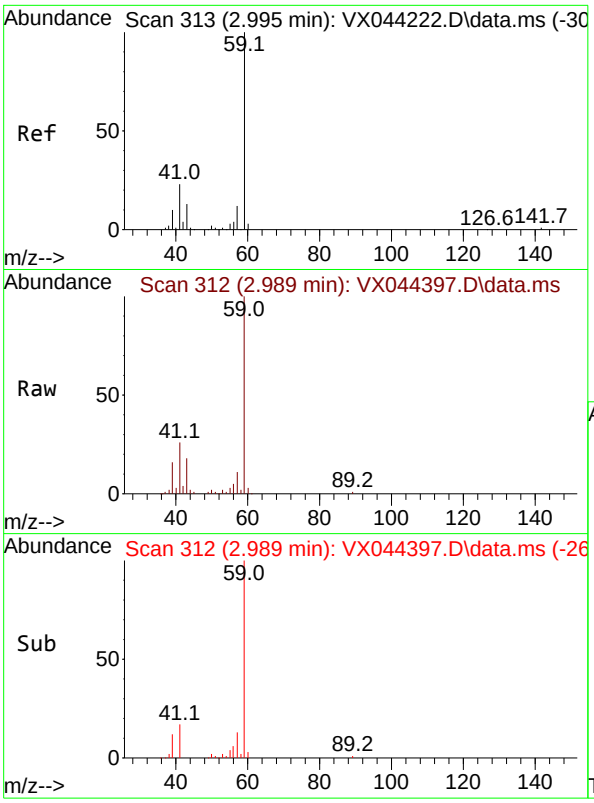


#10
Methyl Iodide
Concen: 55.298 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:142 Resp: 120260

Ion	Ratio	Lower	Upper
142	100		
127	50.0	41.8	62.8
141	14.8	11.5	17.3



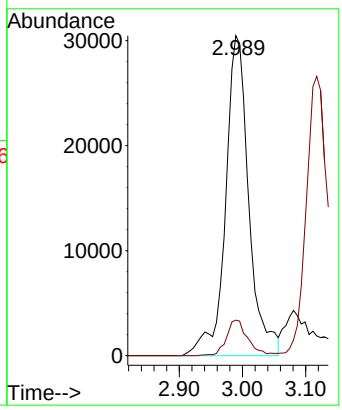


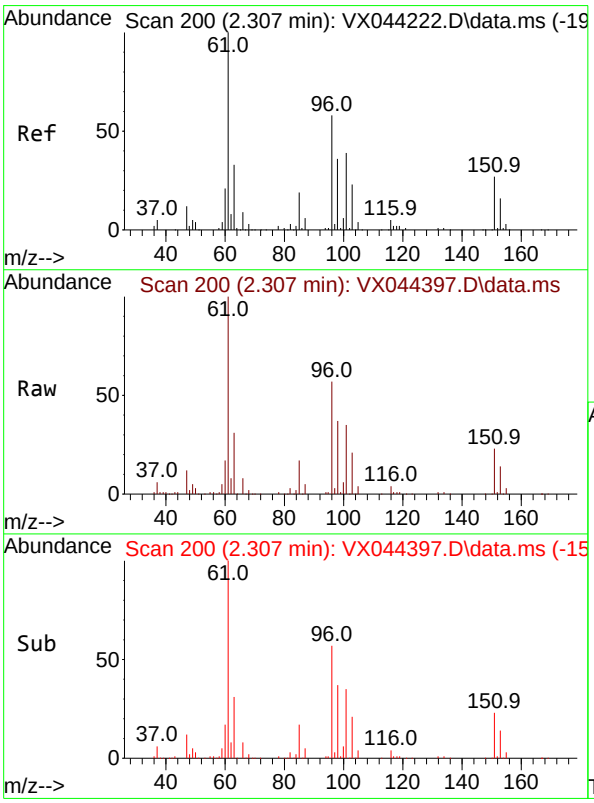
#11
Tert butyl alcohol
Concen: 233.146 ug/l
RT: 2.989 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 77901

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.8	13.2

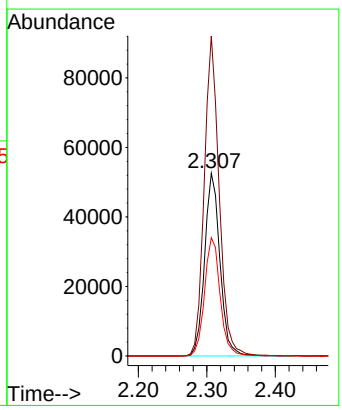


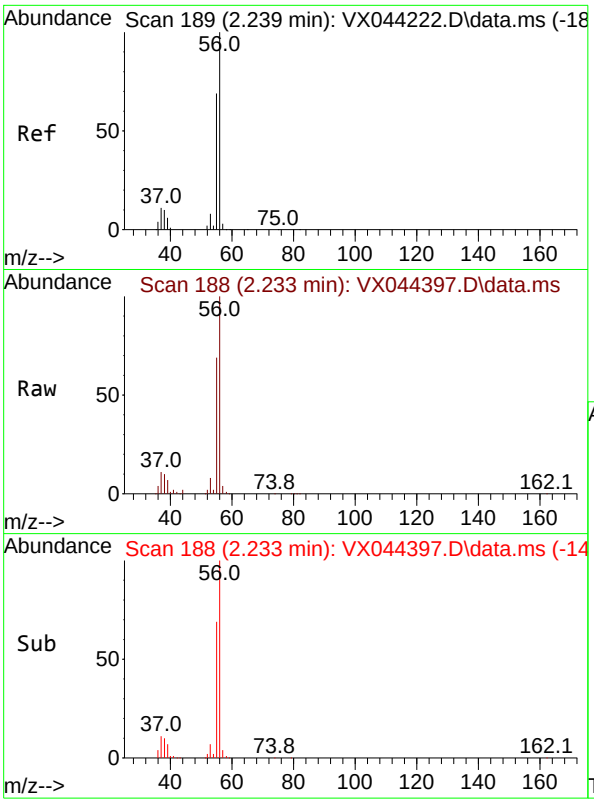


#12
1,1-Dichloroethene
Concen: 54.088 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 96 Resp: 81977

Ion	Ratio	Lower	Upper
96	100		
61	175.1	138.0	207.0
98	64.7	50.0	75.0



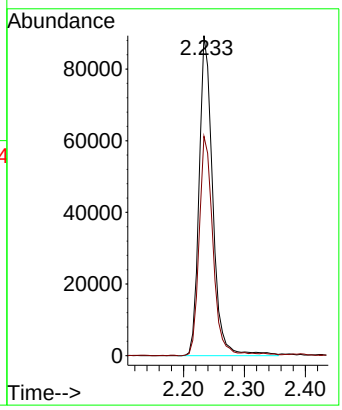


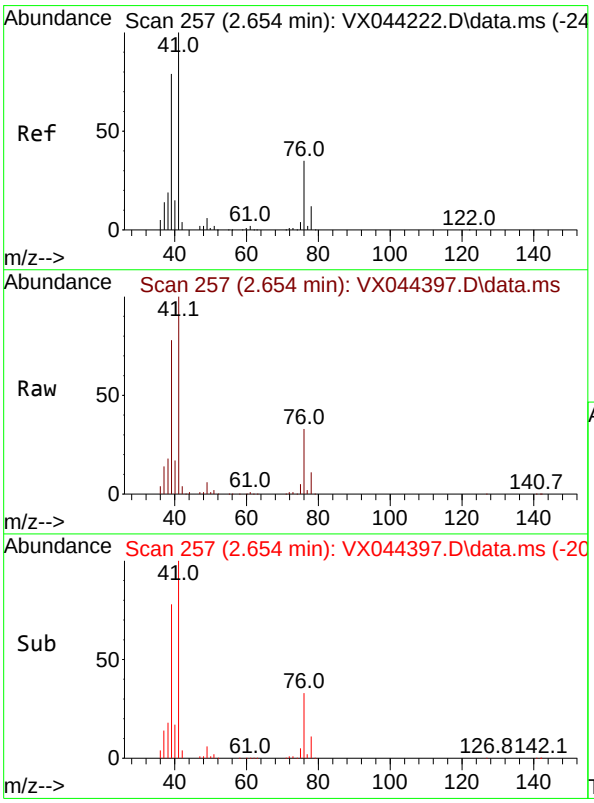
#13
Acrolein
Concen: 287.785 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 139192

Ion	Ratio	Lower	Upper
56	100		
55	69.7	56.6	84.8

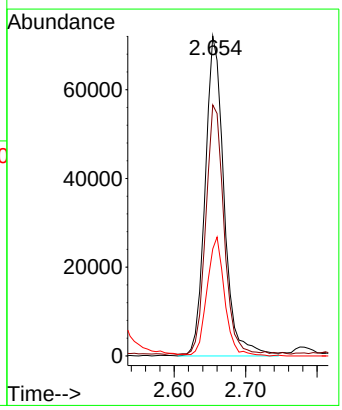


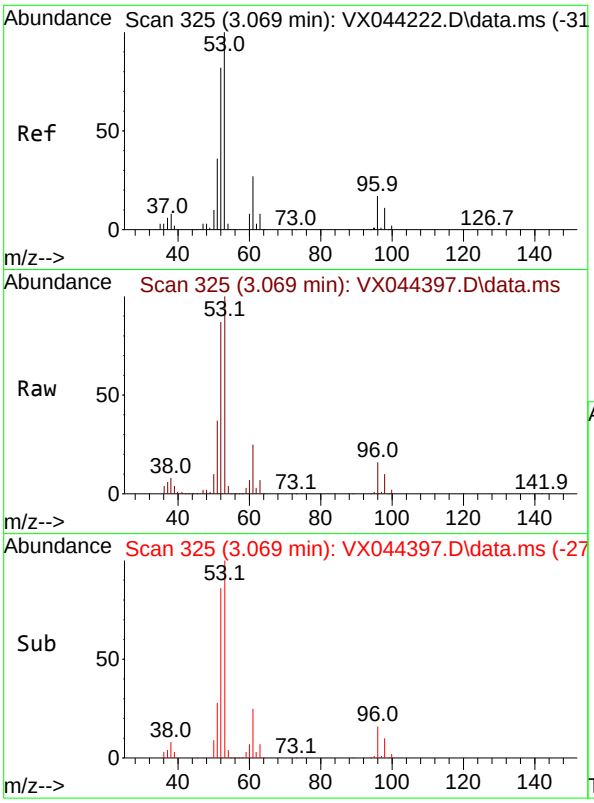


#14
Allyl chloride
Concen: 52.597 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 41 Resp: 132780

Ion	Ratio	Lower	Upper
41	100		
39	74.3	61.9	92.9
76	34.6	27.4	41.2



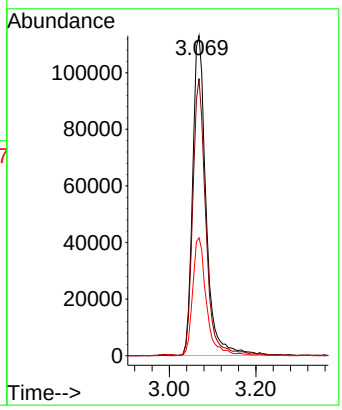


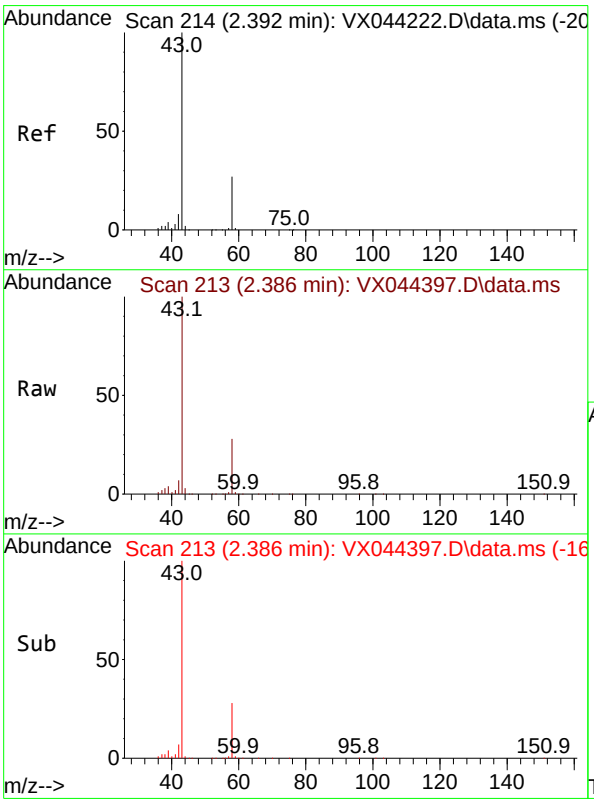
#15
Acrylonitrile
Concen: 264.238 ug/l
RT: 3.069 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 244567

Ion	Ratio	Lower	Upper
53	100		
52	84.6	67.4	101.0
51	37.4	30.3	45.5

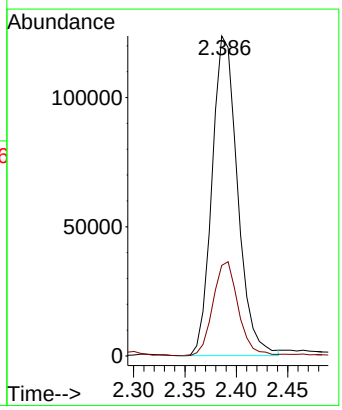


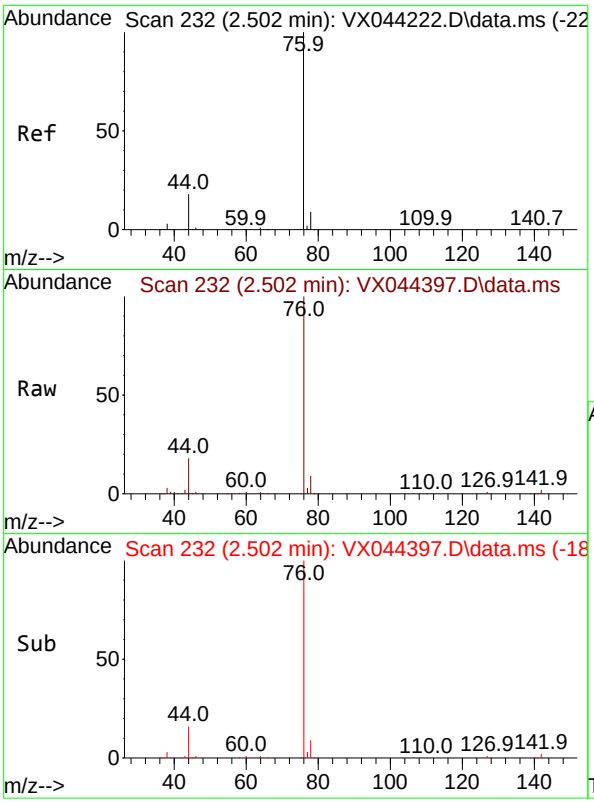


#16
Acetone
Concen: 221.165 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 43 Resp: 213764

Ion	Ratio	Lower	Upper
43	100		
58	28.2	21.6	32.4



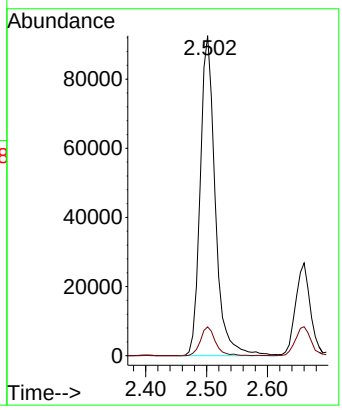


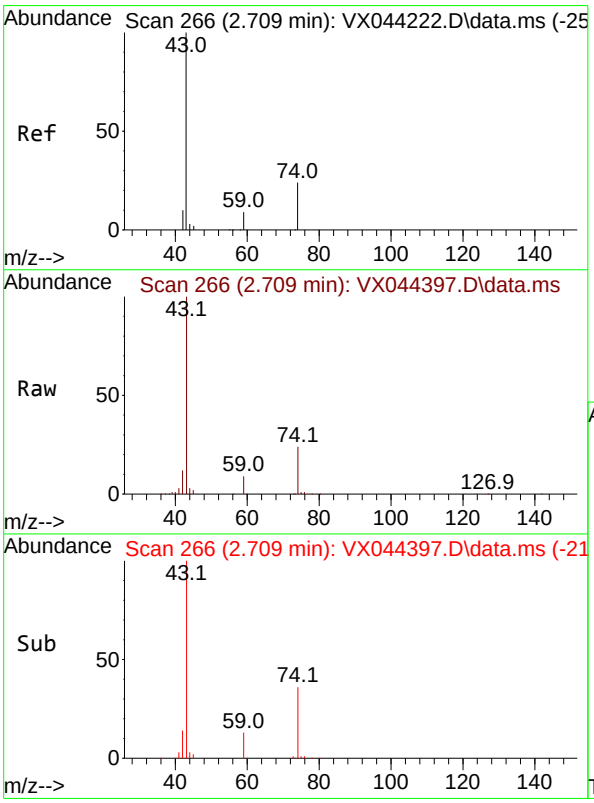
#17
Carbon Disulfide
Concen: 55.140 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 158857

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0

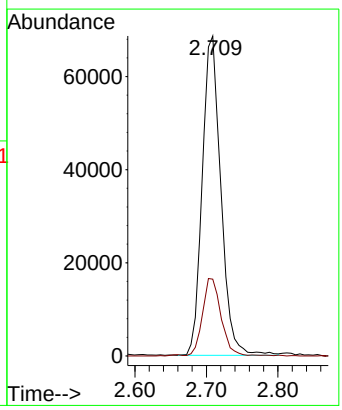


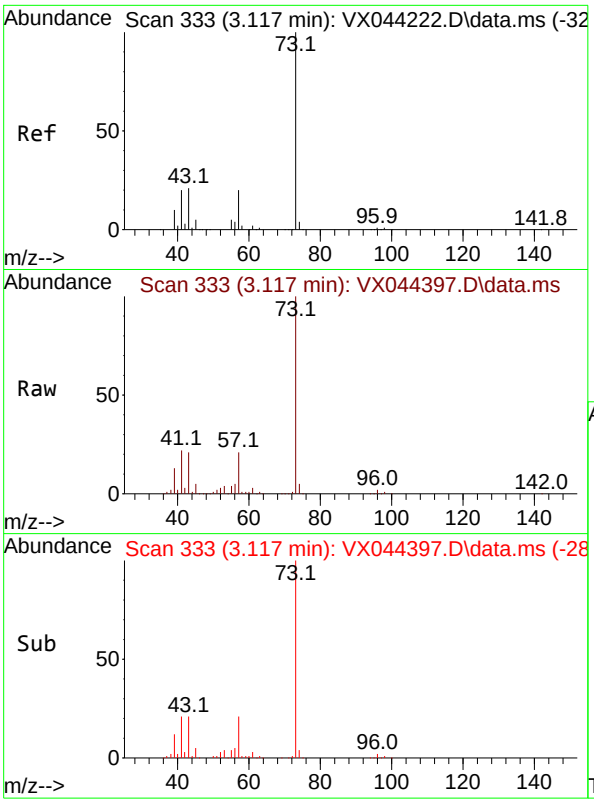


#18
Methyl Acetate
Concen: 49.781 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 43 Resp: 124059

Ion	Ratio	Lower	Upper
43	100		
74	24.4	17.7	26.5



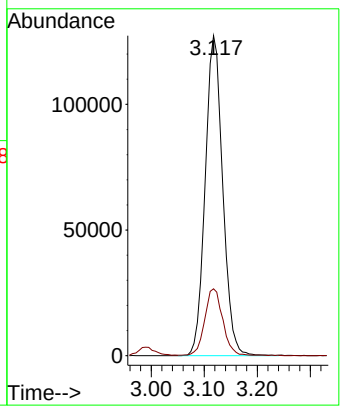


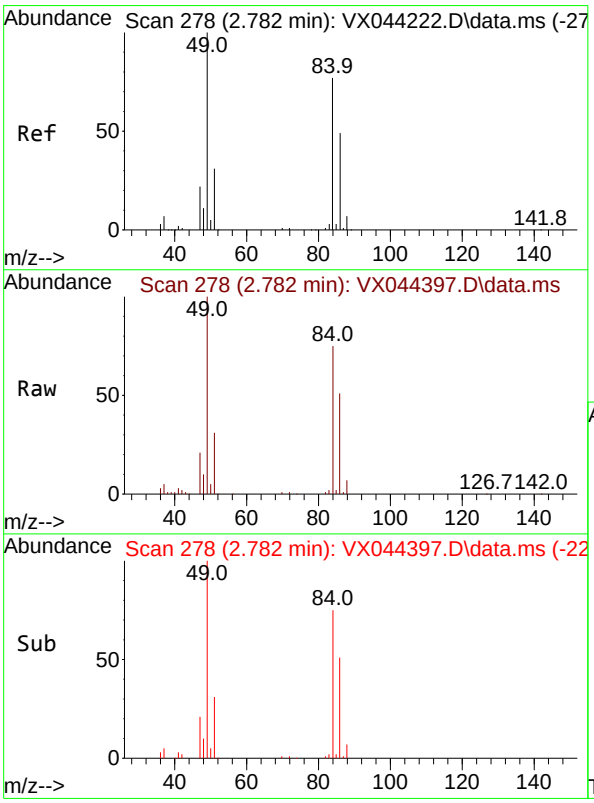
#19
Methyl tert-butyl Ether
Concen: 49.423 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 292313

Ion	Ratio	Lower	Upper
73	100		
57	20.8	16.2	24.4

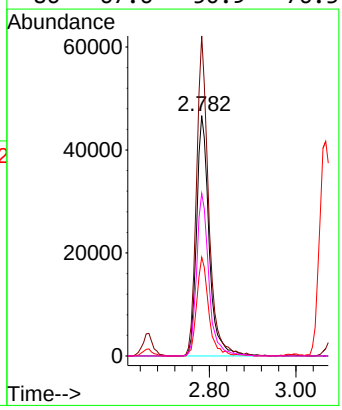


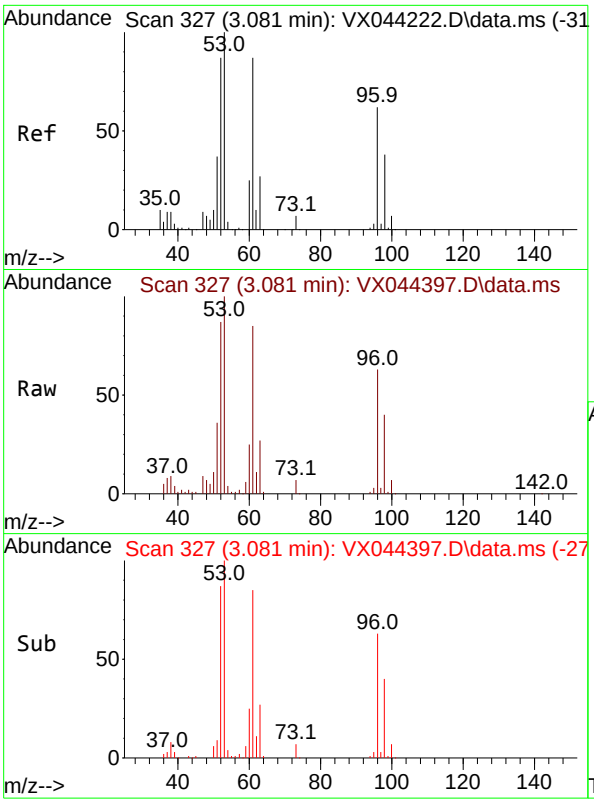


#20
Methylene Chloride
Concen: 51.666 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 84 Resp: 93795

Ion	Ratio	Lower	Upper
84	100		
49	133.2	104.2	156.4
51	41.1	32.2	48.4
86	67.6	50.9	76.3



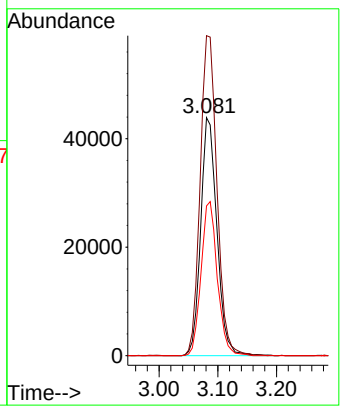


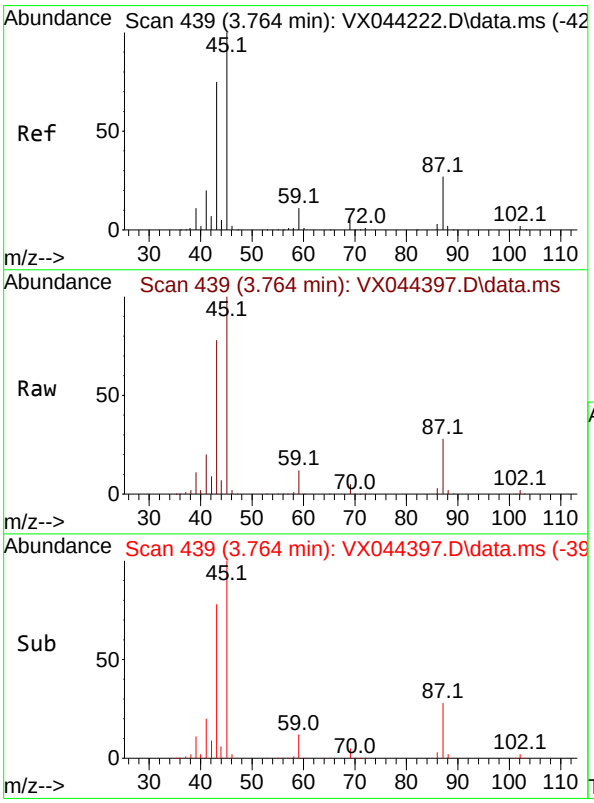
#21
trans-1,2-Dichloroethene
Concen: 52.232 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 84135

Ion	Ratio	Lower	Upper
96	100		
61	134.4	112.0	168.0
98	62.9	48.8	73.2

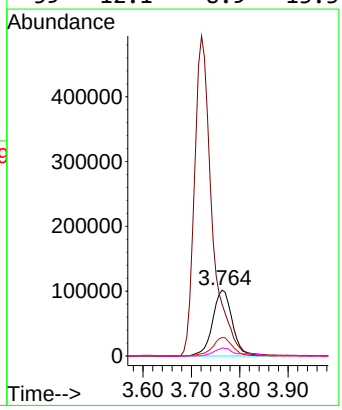


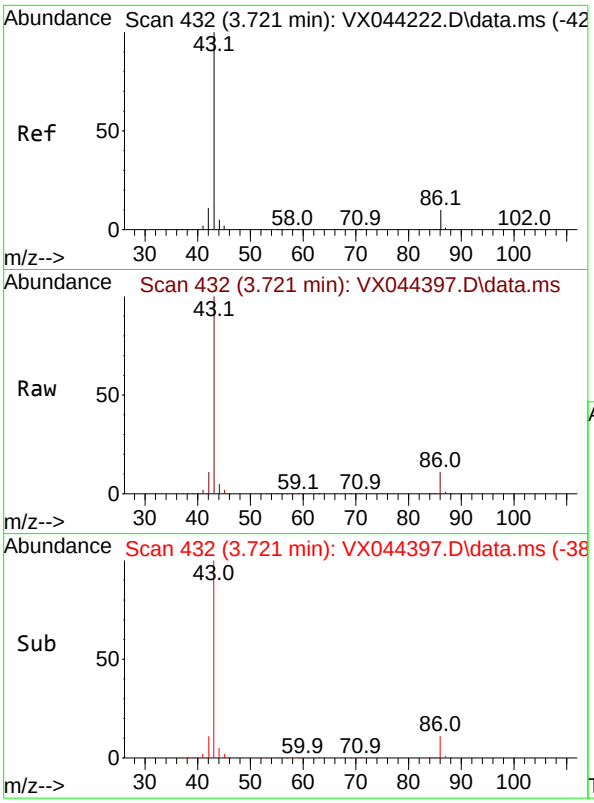


#22
Diisopropyl ether
Concen: 50.590 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 45 Resp: 287589

Ion	Ratio	Lower	Upper
45	100		
43	78.2	60.2	90.2
87	28.2	21.2	31.8
59	12.1	8.9	13.3



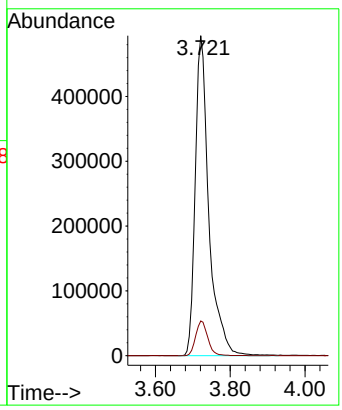


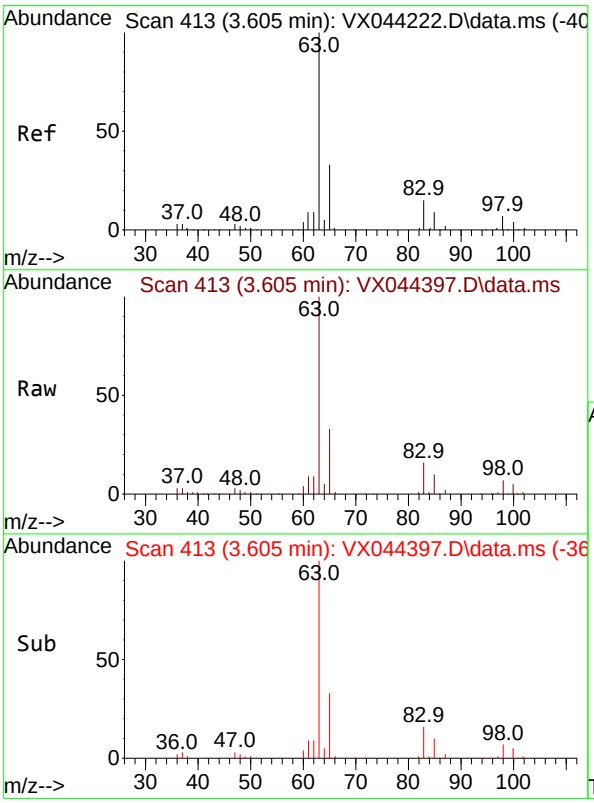
#23
Vinyl Acetate
Concen: 270.083 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1248223

Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.2	12.2

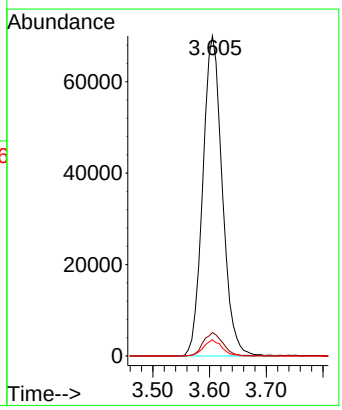


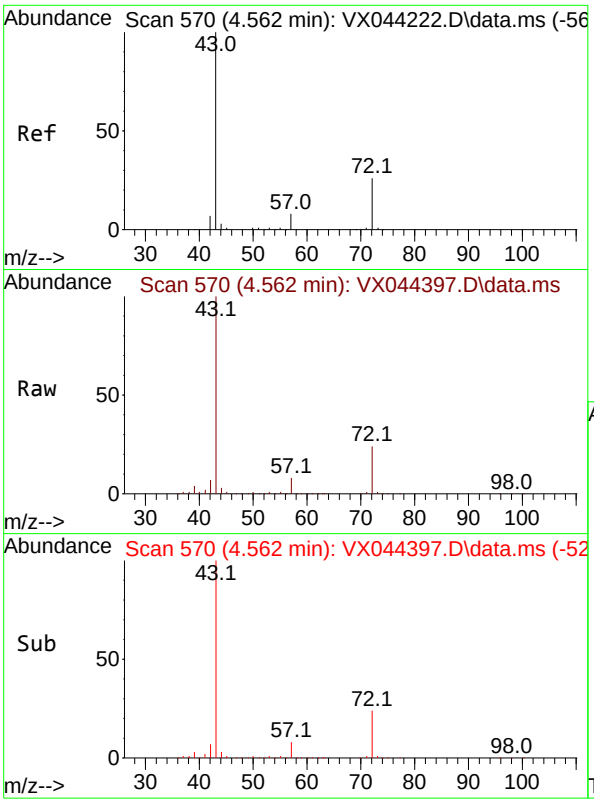


#24
1,1-Dichloroethane
Concen: 52.681 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 63 Resp: 166932

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.6	10.8
100	5.1	2.1	6.3



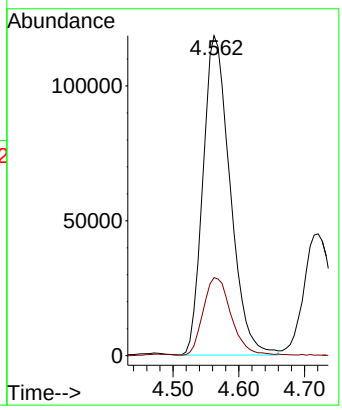


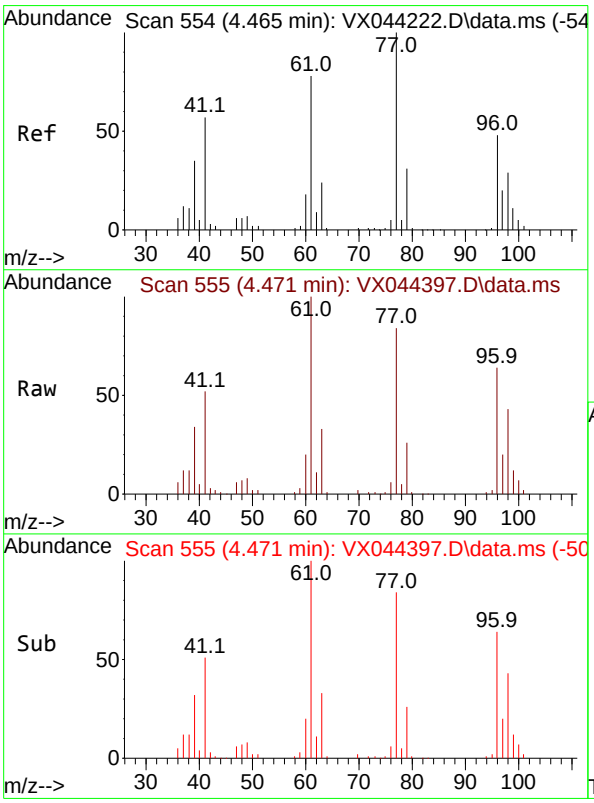
#25
2-Butanone
Concen: 247.114 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 339552

Ion	Ratio	Lower	Upper
43	100		
72	24.2	20.2	30.4

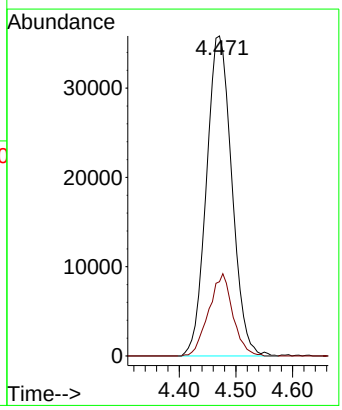


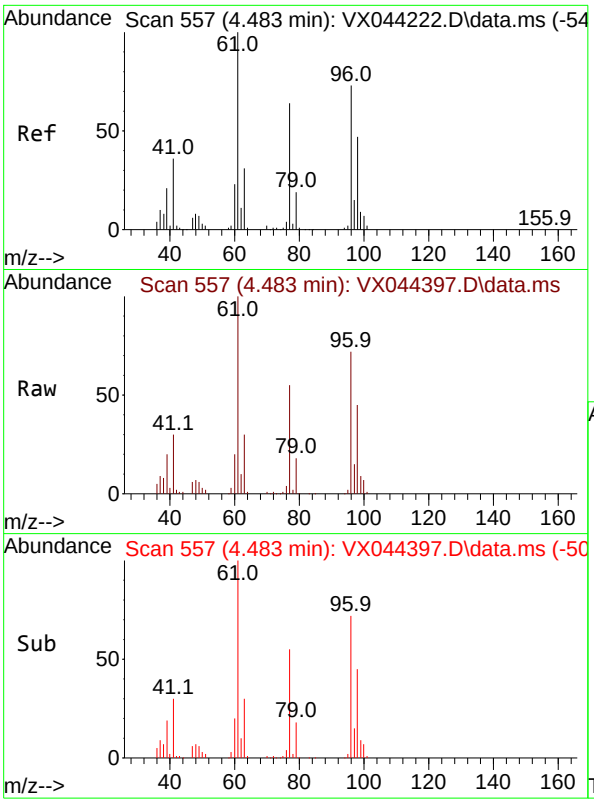


#26
2,2-Dichloropropane
Concen: 43.294 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 77 Resp: 111451

Ion	Ratio	Lower	Upper
77	100		
97	24.4	10.7	32.1



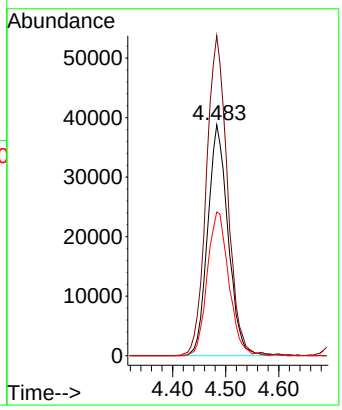


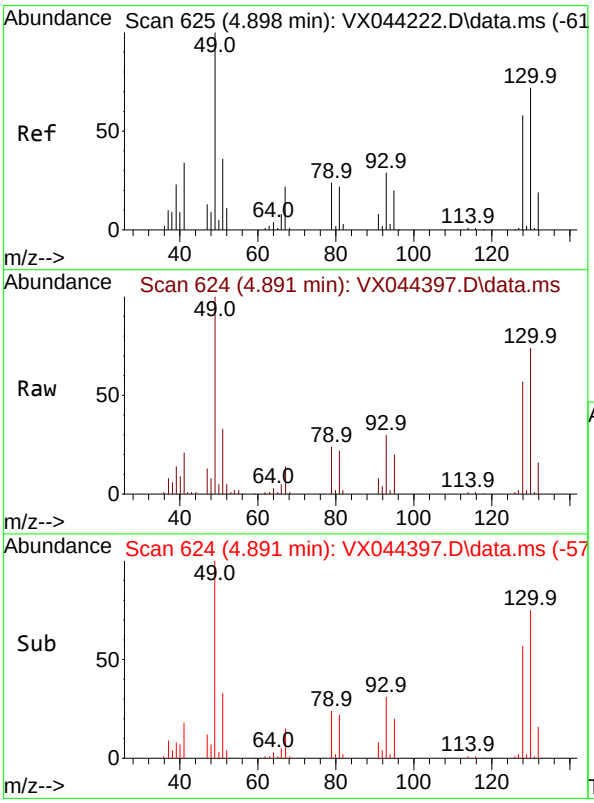
#27
cis-1,2-Dichloroethene
Concen: 50.631 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 103578

Ion	Ratio	Lower	Upper
96	100		
61	143.4	0.0	299.0
98	65.7	0.0	129.0

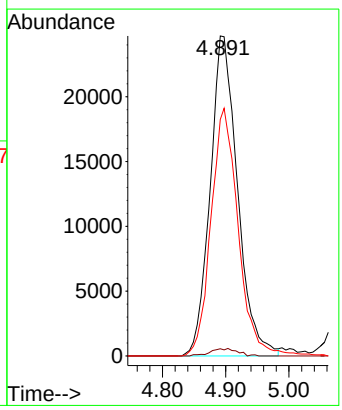


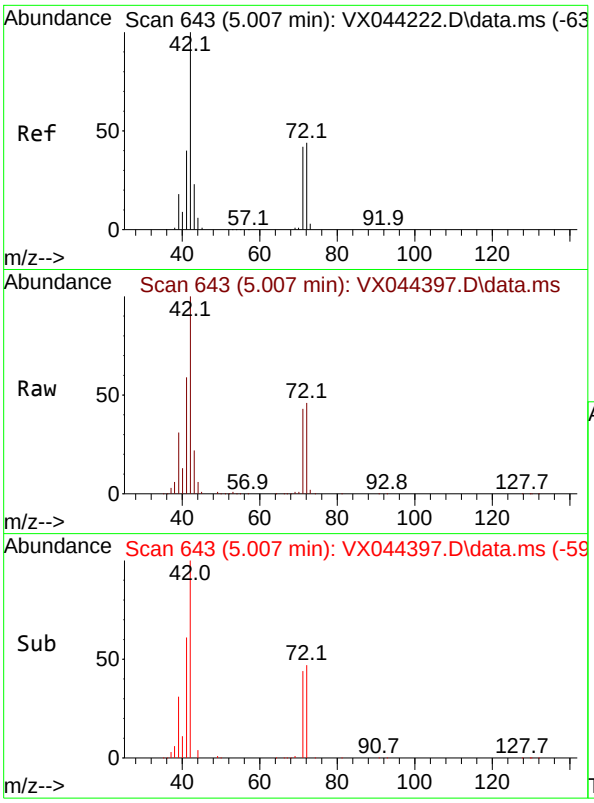


#28
Bromochloromethane
Concen: 47.791 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 49 Resp: 74260

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	77.0	62.1	93.1



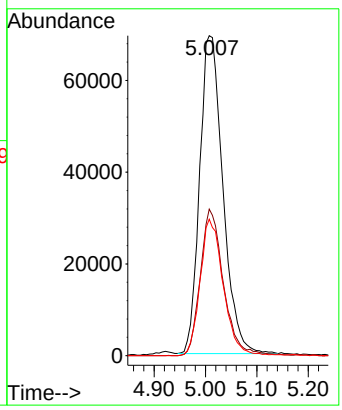


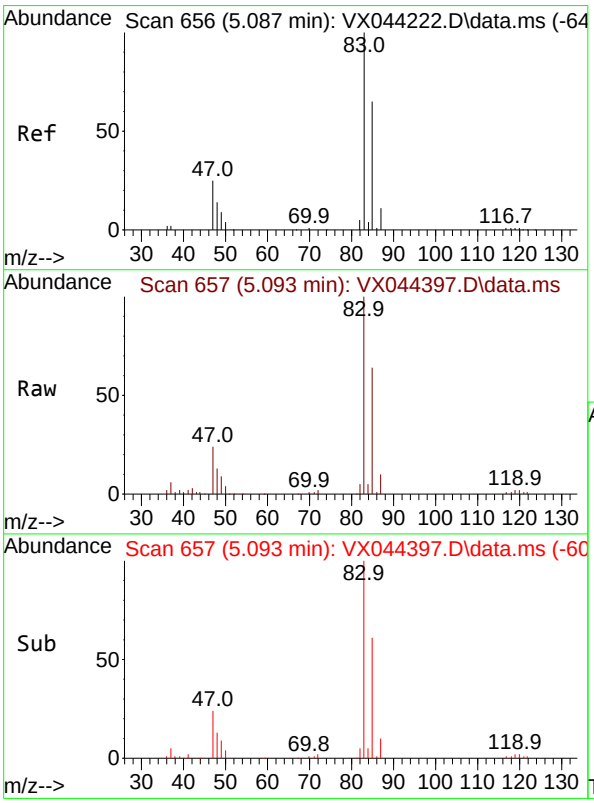
#29
Tetrahydrofuran
Concen: 246.831 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 217698

Ion	Ratio	Lower	Upper
42	100		
72	46.0	37.0	55.6
71	42.8	33.6	50.4

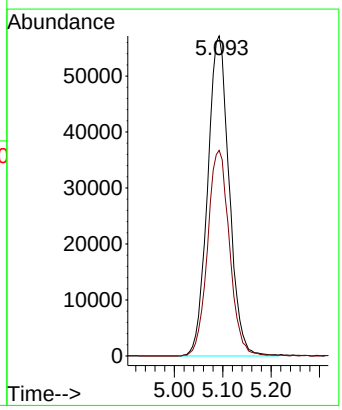


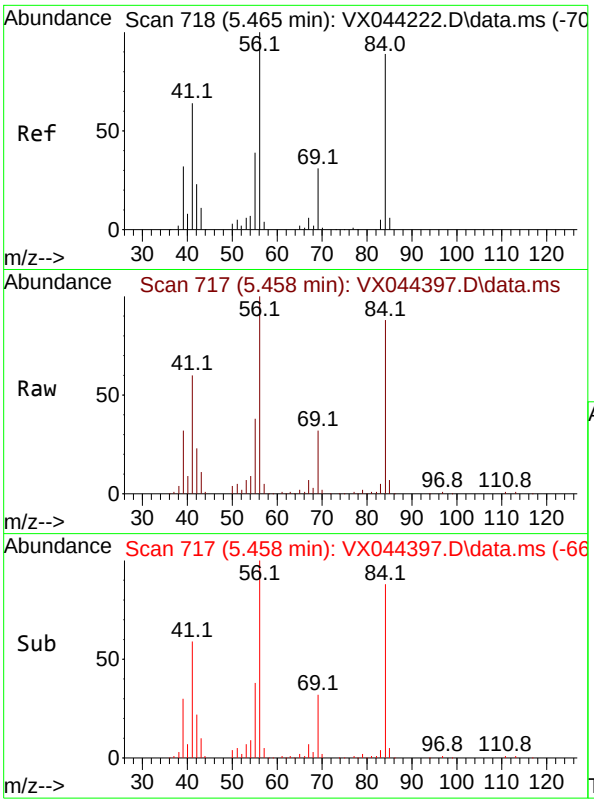


#30
Chloroform
Concen: 49.644 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 83 Resp: 176742

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.6	77.4



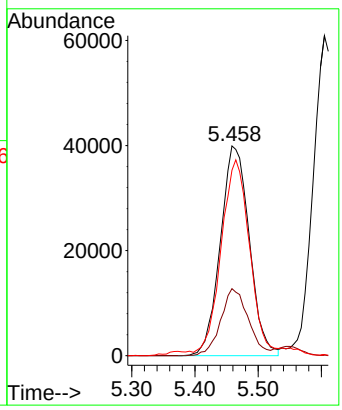


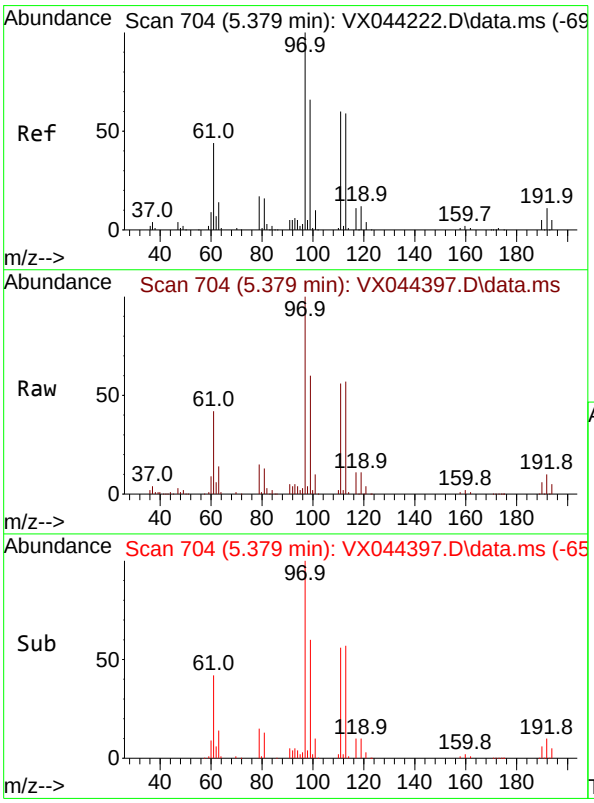
#31
Cyclohexane
Concen: 49.582 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 126871

Ion	Ratio	Lower	Upper
56	100		
69	31.9	24.7	37.1
84	86.3	71.0	106.6

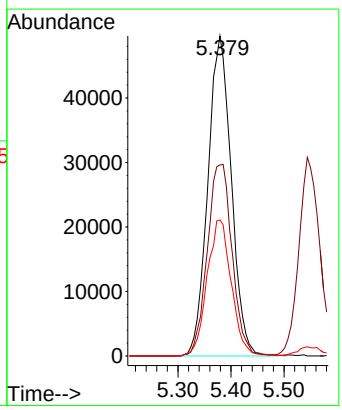


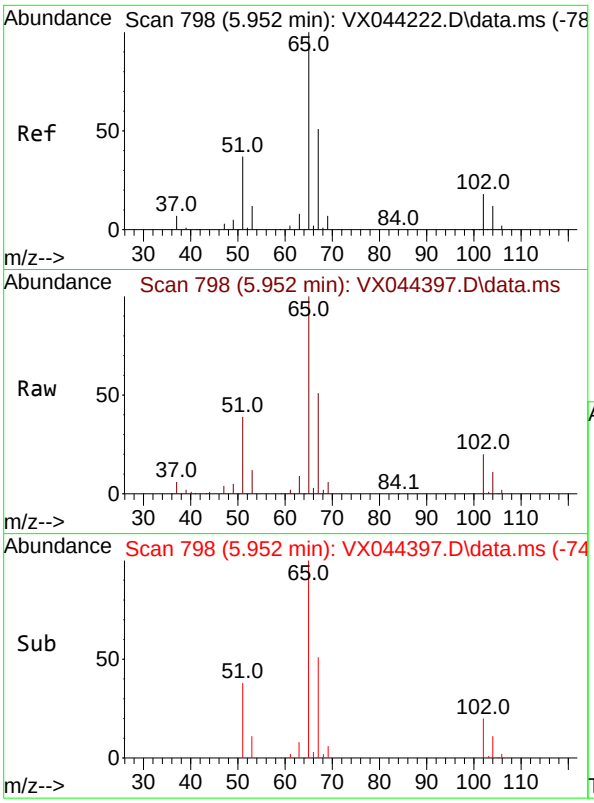


#32
1,1,1-Trichloroethane
Concen: 51.614 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 97 Resp: 152533

Ion	Ratio	Lower	Upper
97	100		
99	63.2	50.8	76.2
61	43.9	35.2	52.8



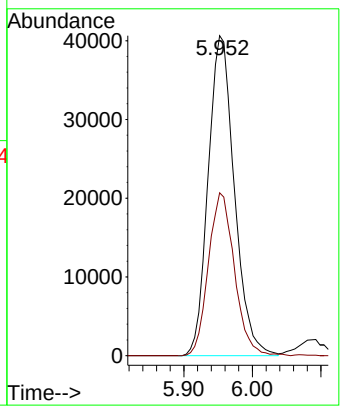


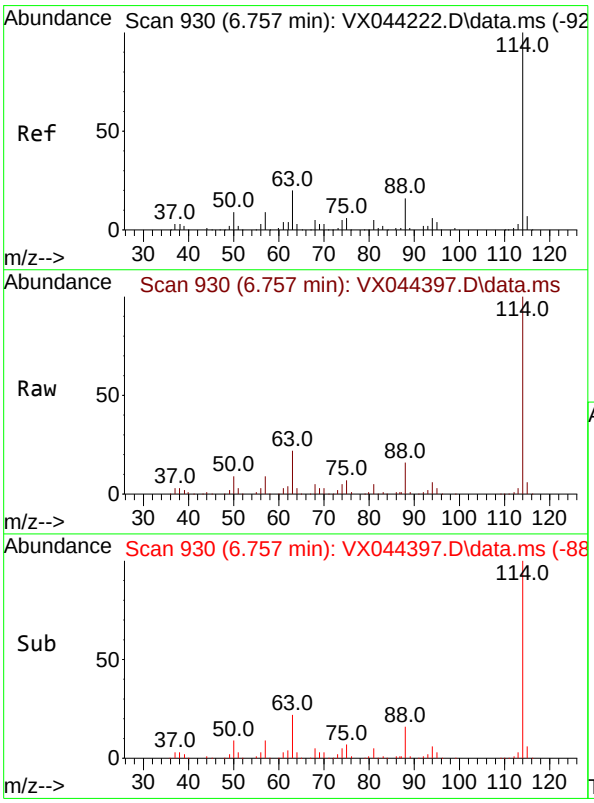
#33
1,2-Dichloroethane-d4
Concen: 45.507 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 107888

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.6

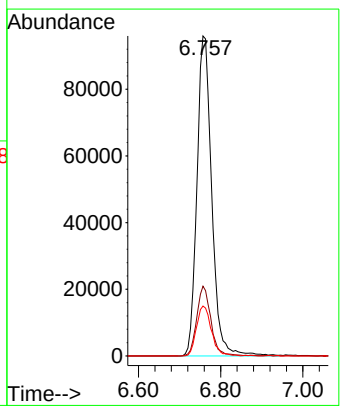


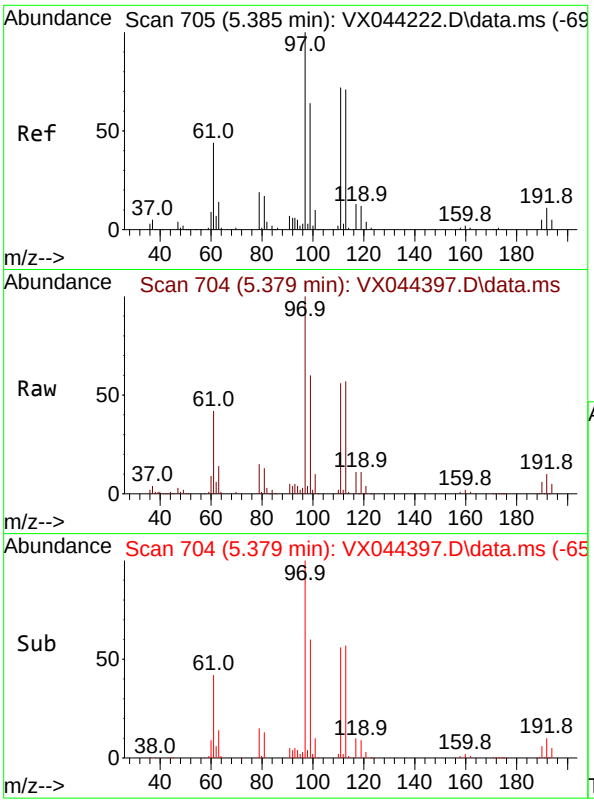


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:114 Resp: 239936

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	40.6
88	15.6	0.0	31.8



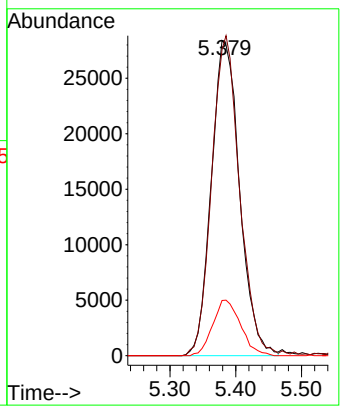


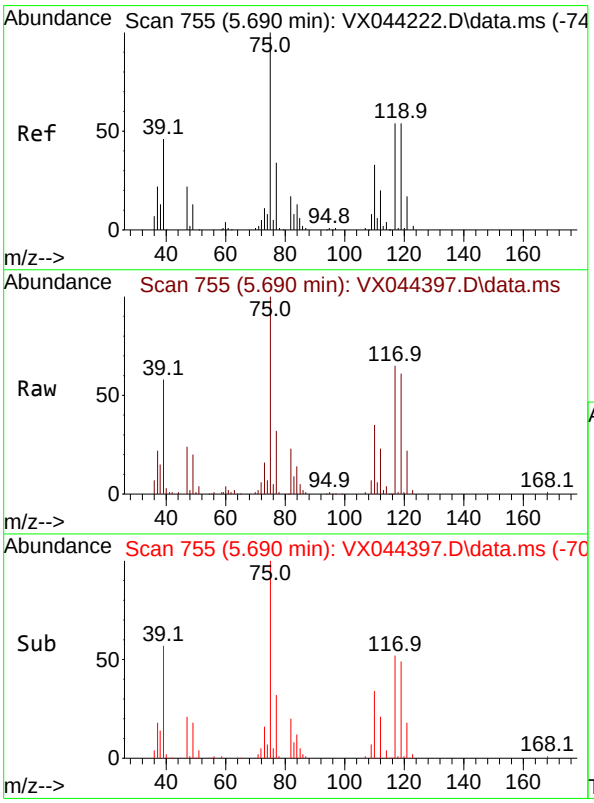
#35
Dibromofluoromethane
Concen: 51.157 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 85012

Ion	Ratio	Lower	Upper
113	100		
111	100.2	80.4	120.6
192	17.4	13.3	19.9

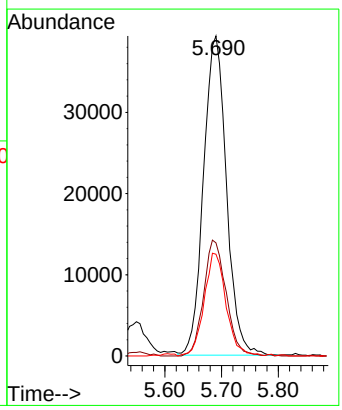


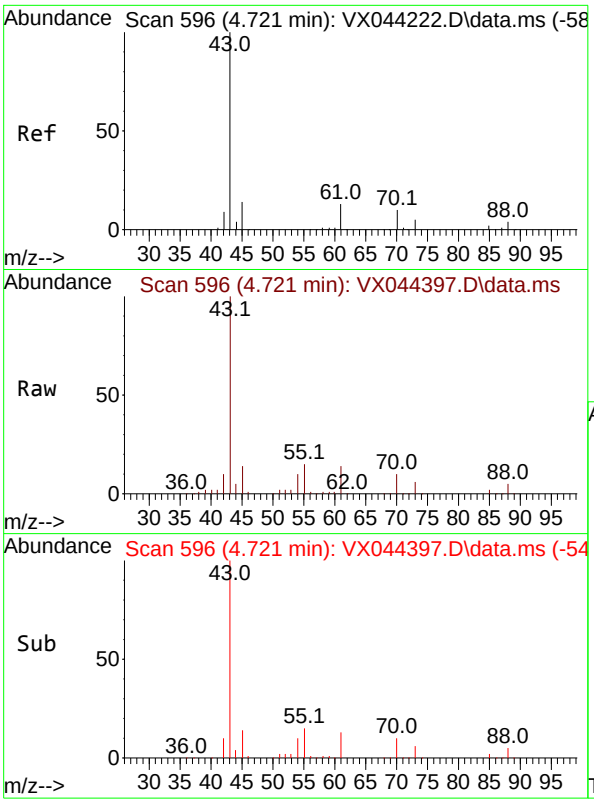


#36
1,1-Dichloropropene
Concen: 51.438 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 75 Resp: 110493

Ion	Ratio	Lower	Upper
75	100		
110	35.4	17.3	51.7
77	30.8	25.4	38.0



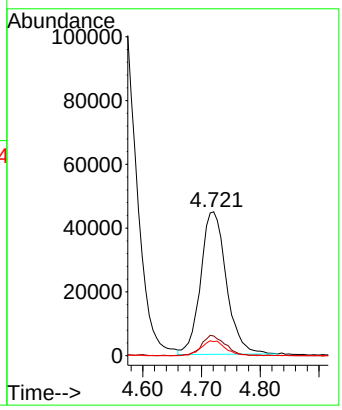


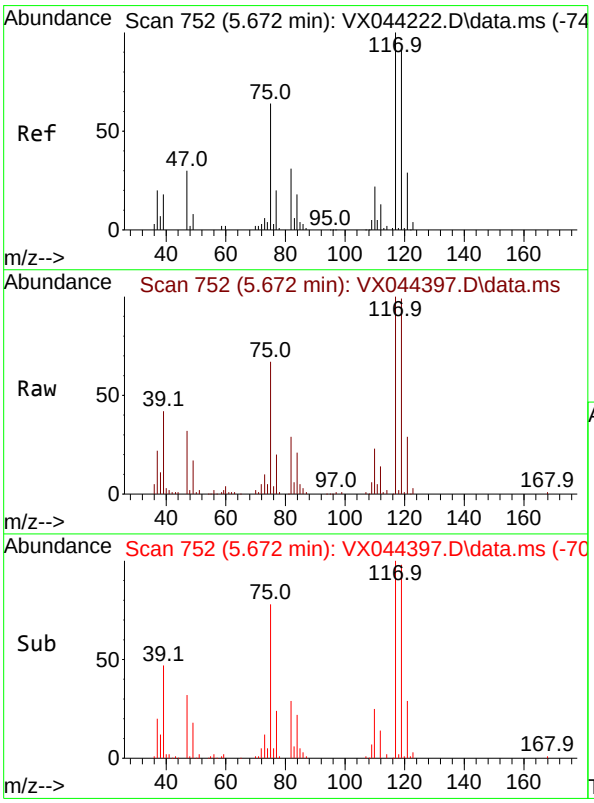
#37
Ethyl Acetate
Concen: 51.297 ug/l
RT: 4.721 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 136208

Ion	Ratio	Lower	Upper
43	100		
61	13.2	9.8	14.8
70	9.8	7.7	11.5

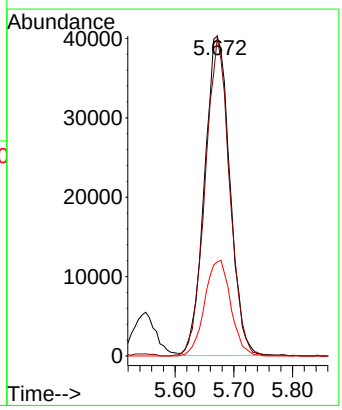


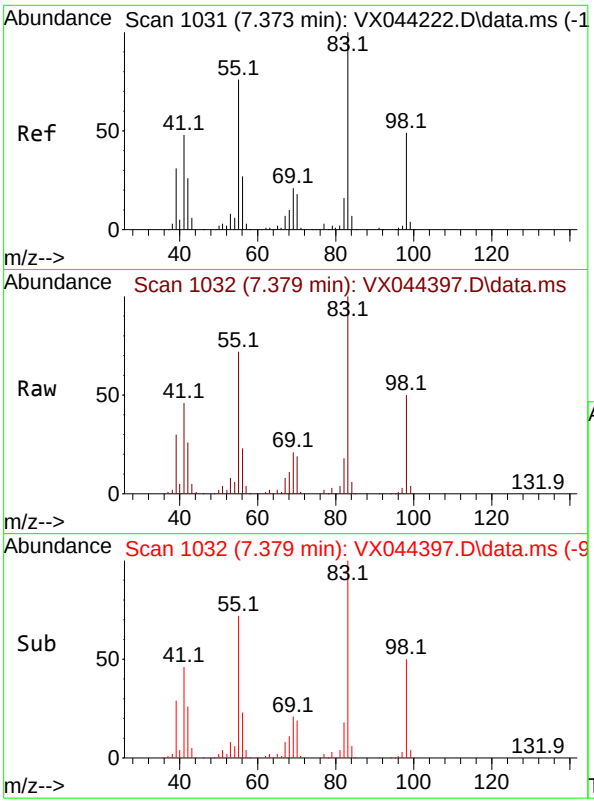


#38
Carbon Tetrachloride
Concen: 52.064 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:117 Resp: 120403

Ion	Ratio	Lower	Upper
117	100		
119	99.3	74.2	111.4
121	29.4	23.0	34.6



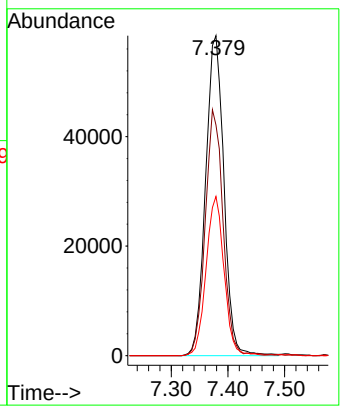


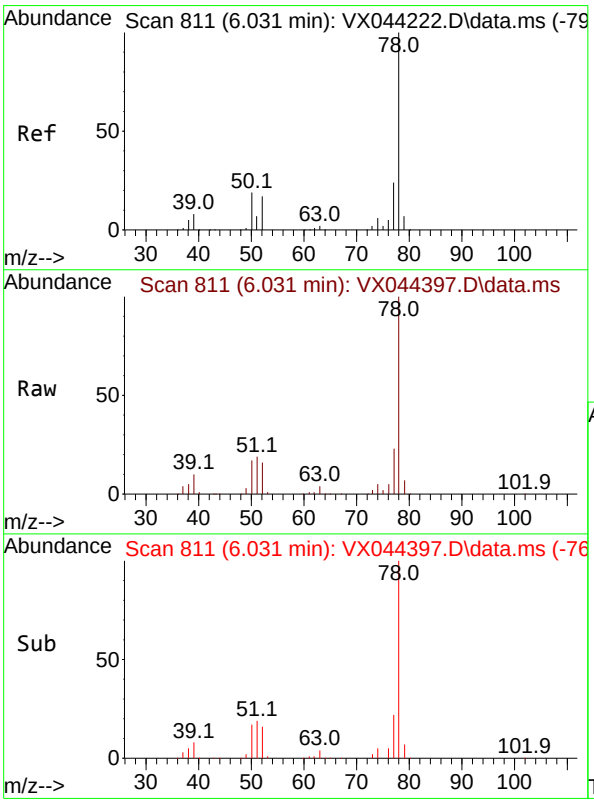
#39
Methylcyclohexane
Concen: 50.884 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 130669

Ion	Ratio	Lower	Upper
83	100		
55	72.1	60.7	91.1
98	49.8	38.9	58.3

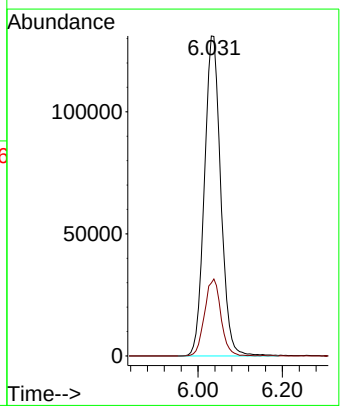


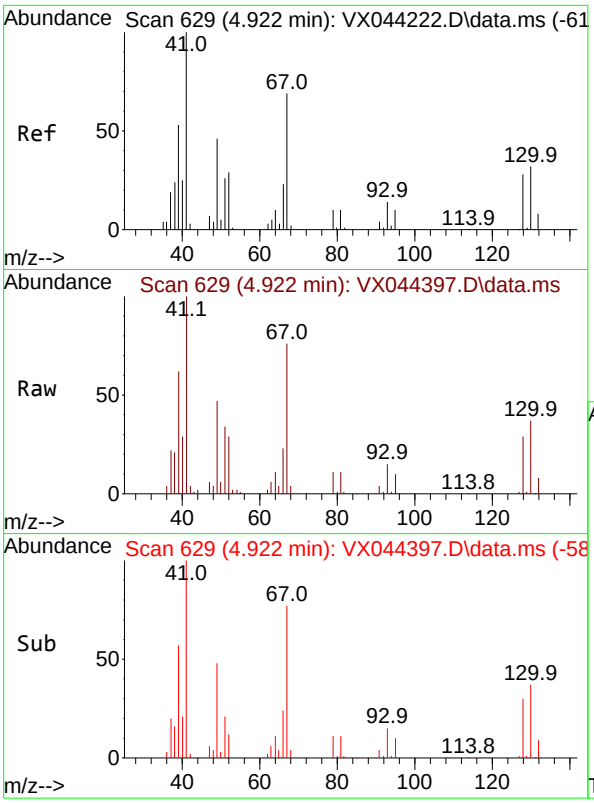


#40
Benzene
Concen: 54.246 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 78 Resp: 353789

Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.3	28.9



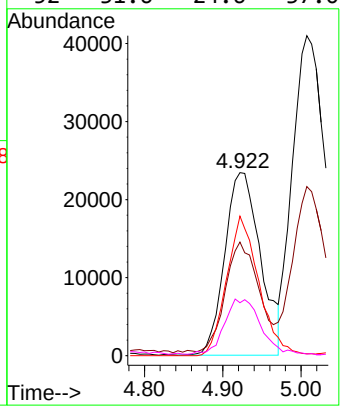


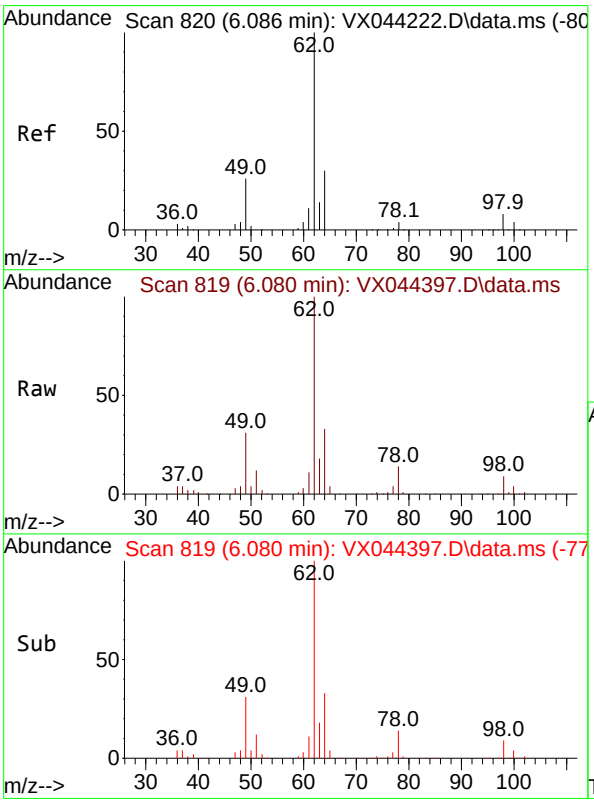
#41
Methacrylonitrile
Concen: 52.726 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 74342

Ion	Ratio	Lower	Upper
41	100		
39	57.4	44.2	66.4
67	69.0	57.2	85.8
52	31.6	24.6	37.0

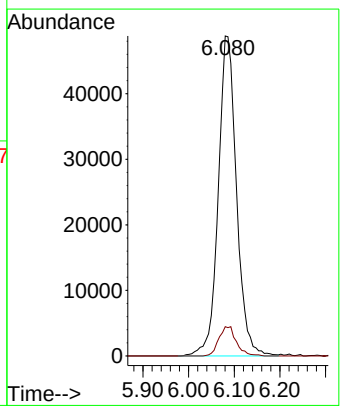


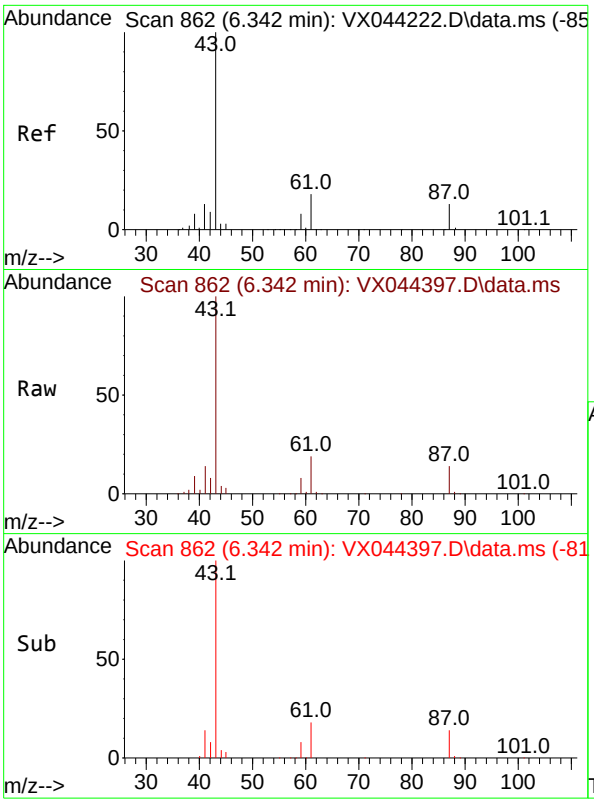


#42
1,2-Dichloroethane
Concen: 50.400 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 62 Resp: 135405

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	15.8



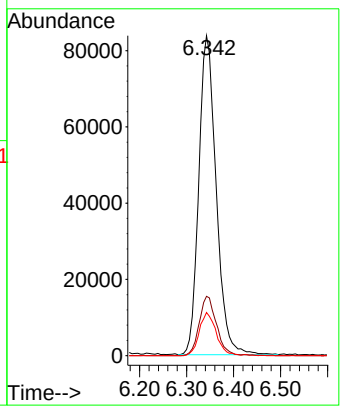


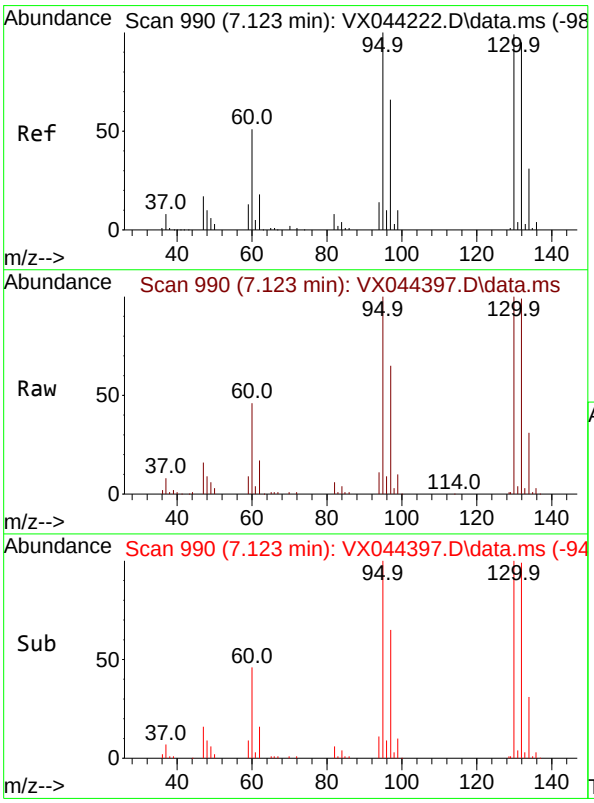
#43
Isopropyl Acetate
Concen: 51.907 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 215421

Ion	Ratio	Lower	Upper
43	100		
61	18.6	14.2	21.2
87	13.2	10.2	15.2

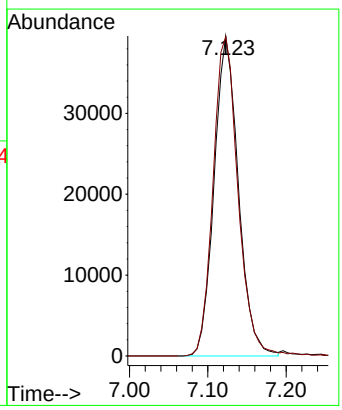


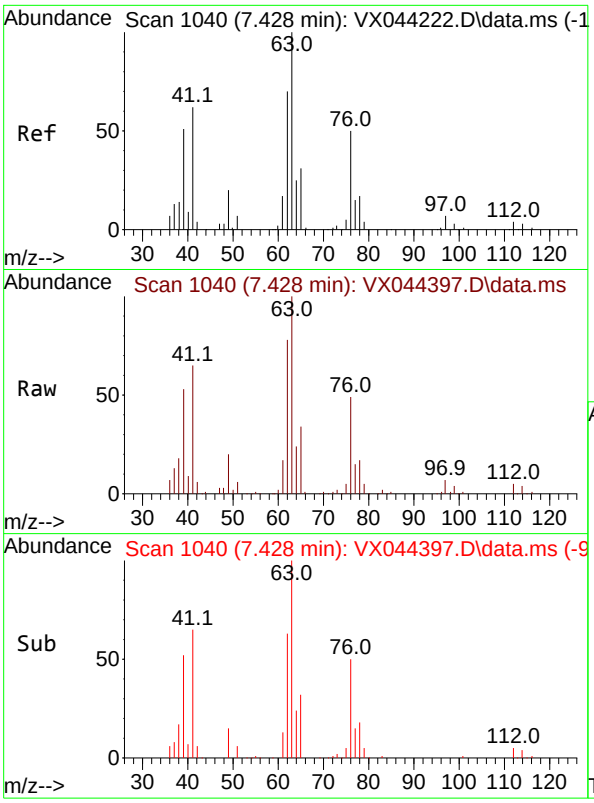


#44
Trichloroethene
Concen: 52.403 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:130 Resp: 85228

Ion	Ratio	Lower	Upper
130	100		
95	99.8	0.0	201.4



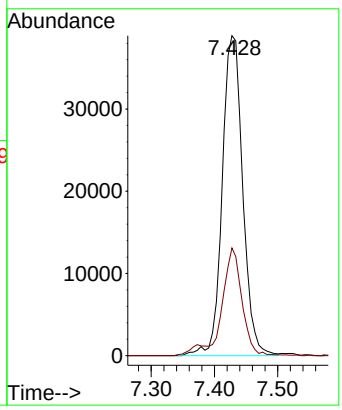


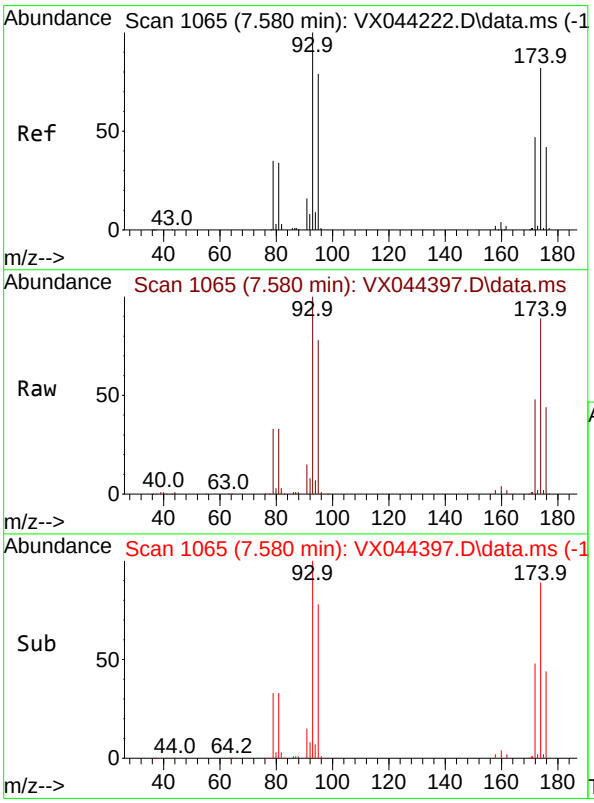
#45
1,2-Dichloropropane
Concen: 52.551 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 87563

Ion	Ratio	Lower	Upper
63	100		
65	33.3	24.6	37.0

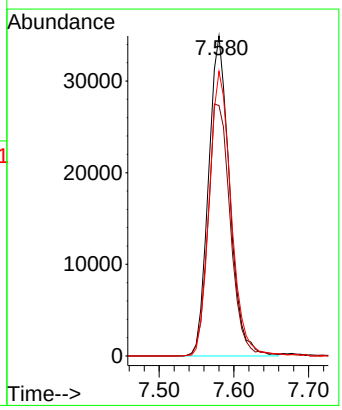


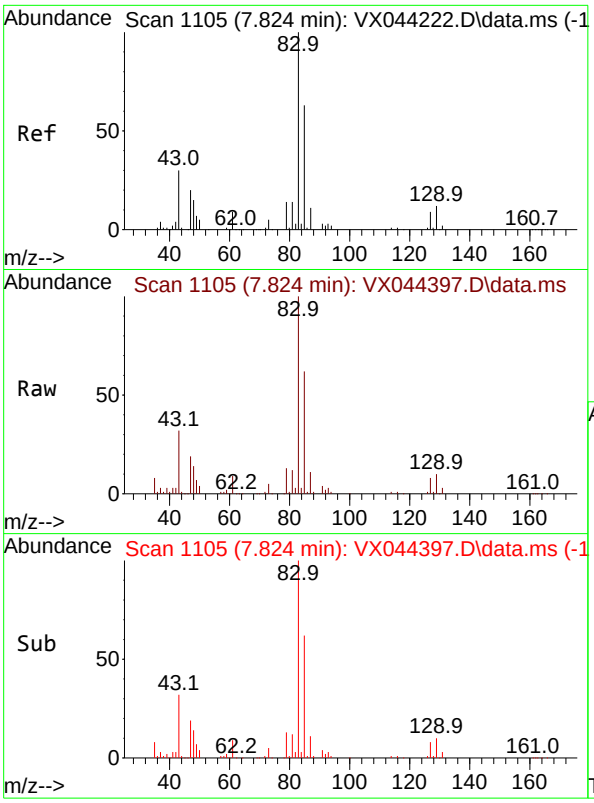


#46
Dibromomethane
Concen: 52.923 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 93 Resp: 68412

Ion	Ratio	Lower	Upper
93	100		
95	83.6	65.4	98.2
174	92.0	67.9	101.9



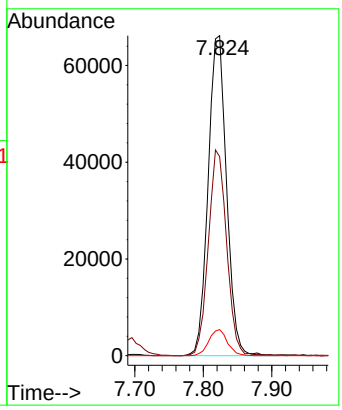


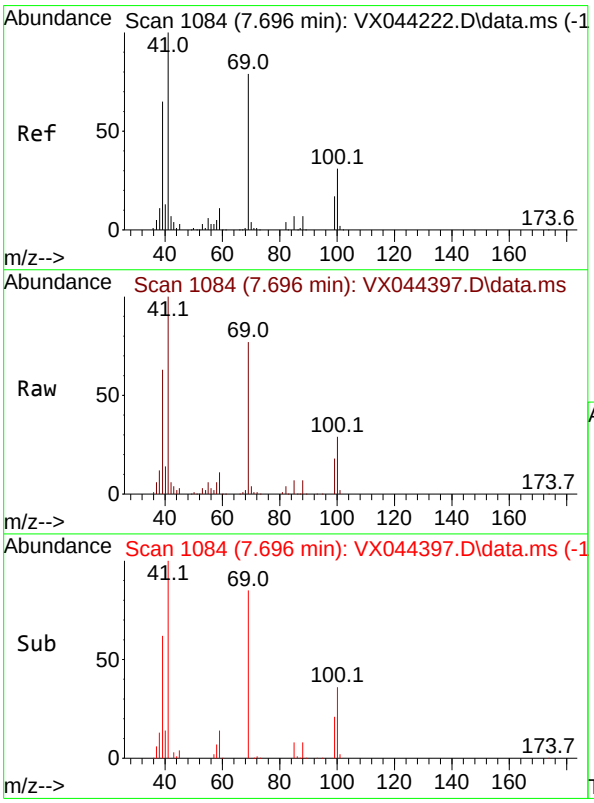
#47
Bromodichloromethane
Concen: 55.381 ug/l
RT: 7.824 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 123638

Ion	Ratio	Lower	Upper
83	100		
85	62.2	50.6	75.8
127	8.1	7.3	10.9

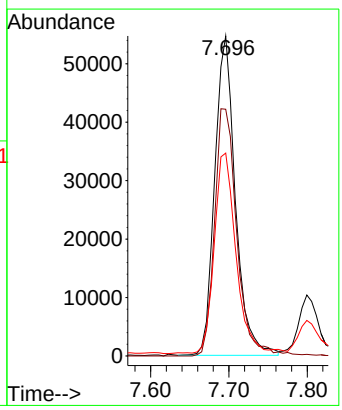


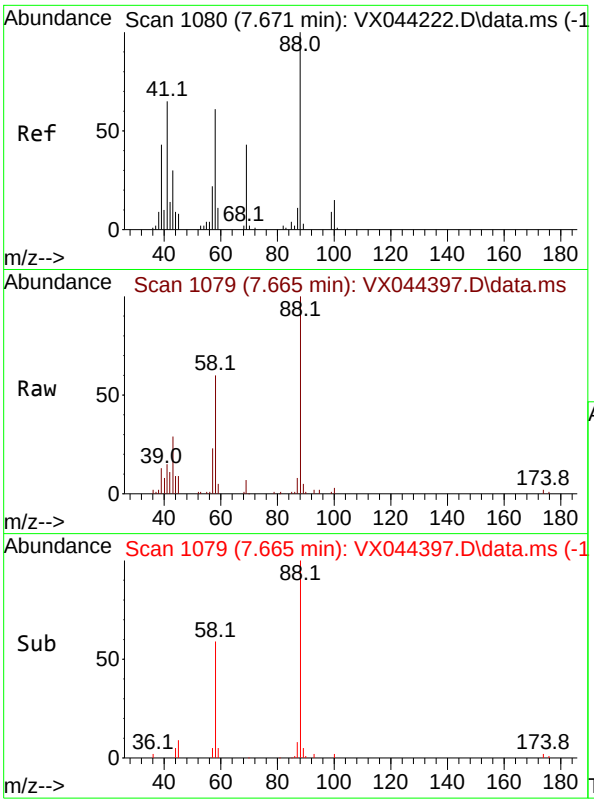


#48
Methyl methacrylate
Concen: 49.782 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 41 Resp: 100291

Ion	Ratio	Lower	Upper
41	100		
69	83.8	62.4	93.6
39	65.6	53.3	79.9



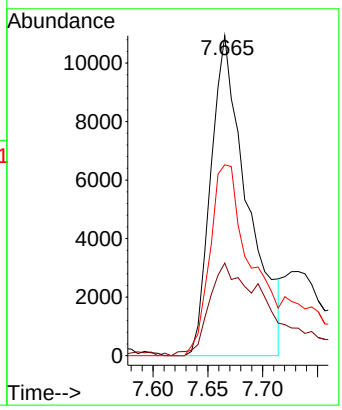


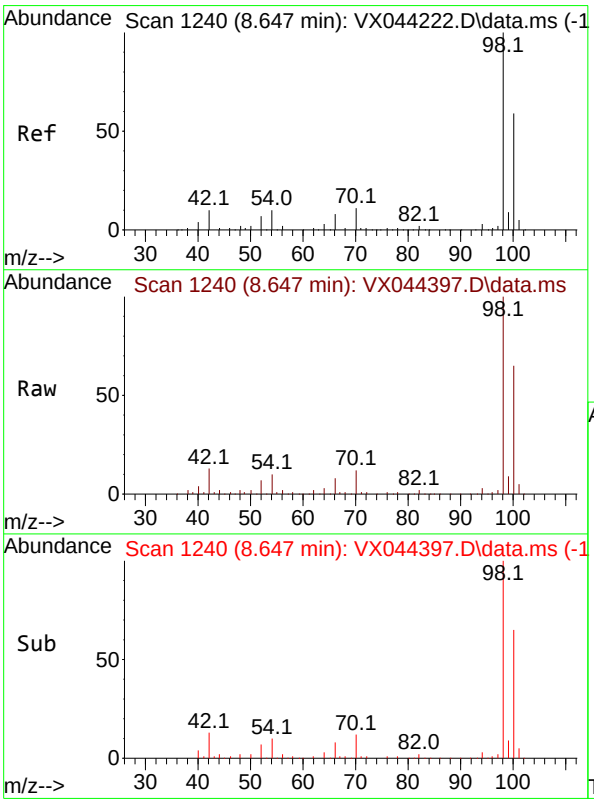
#49
1,4-Dioxane
Concen: 762.005 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 25452

Ion	Ratio	Lower	Upper
88	100		
43	47.8	27.1	40.7#
58	67.0	41.0	61.4#

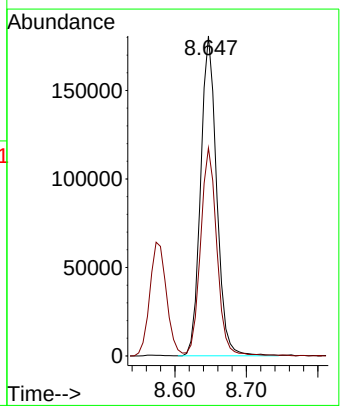


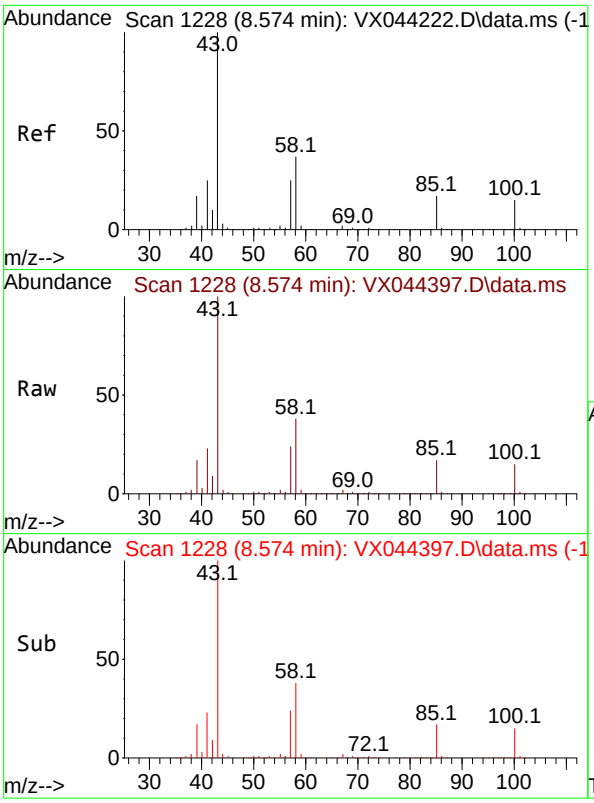


#50
Toluene-d8
Concen: 50.233 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 98 Resp: 281622

Ion	Ratio	Lower	Upper
98	100		
100	66.1	51.5	77.3



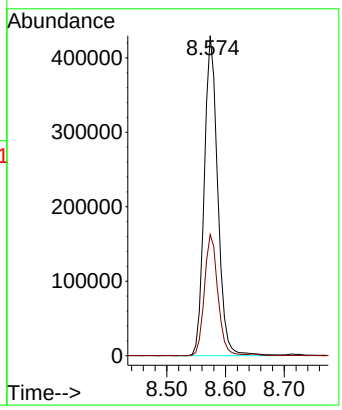


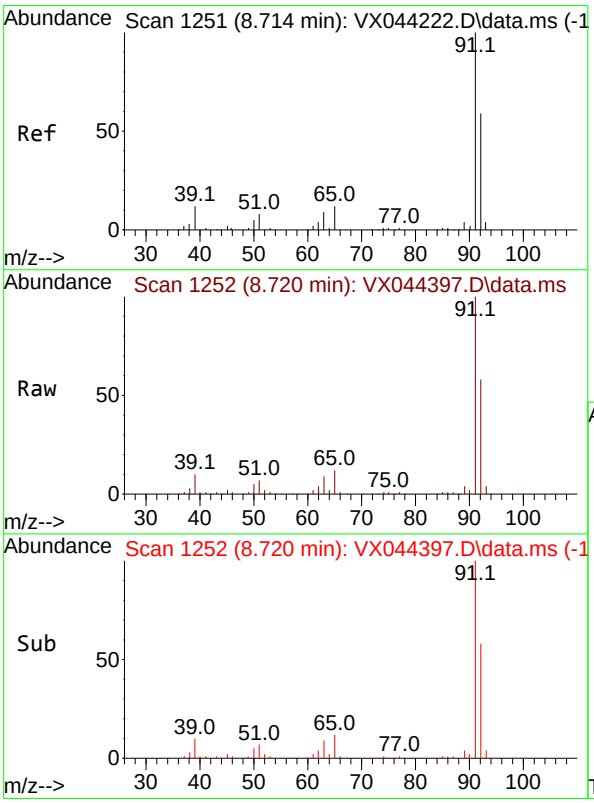
#51
4-Methyl-2-Pentanone
Concen: 255.786 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 682557

Ion	Ratio	Lower	Upper
43	100		
58	37.9	29.4	44.0

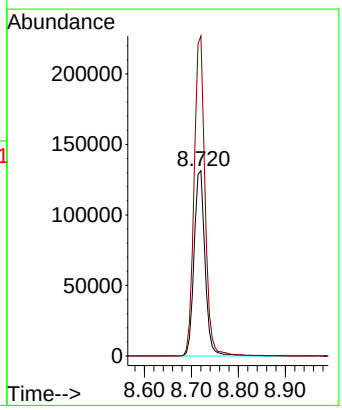


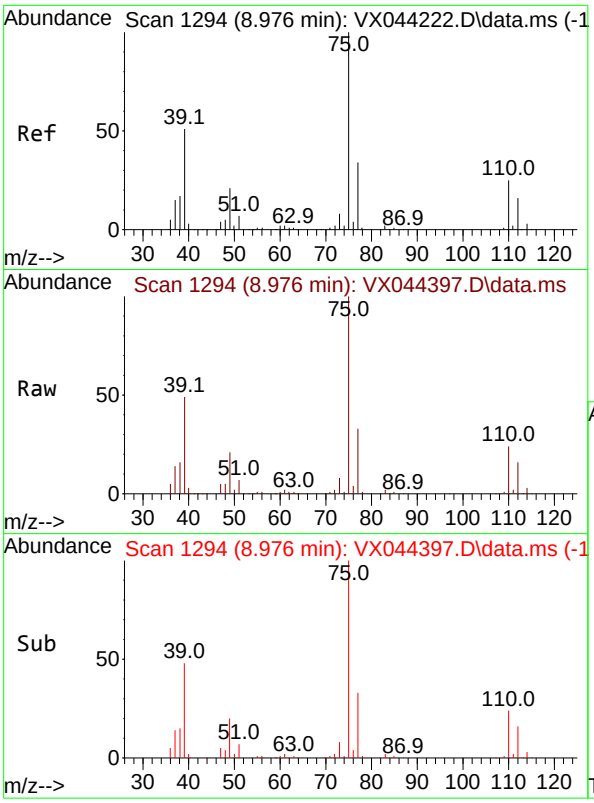


#52
Toluene
Concen: 52.287 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 92 Resp: 214145

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.0	205.6



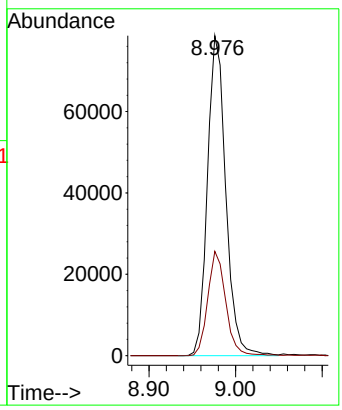


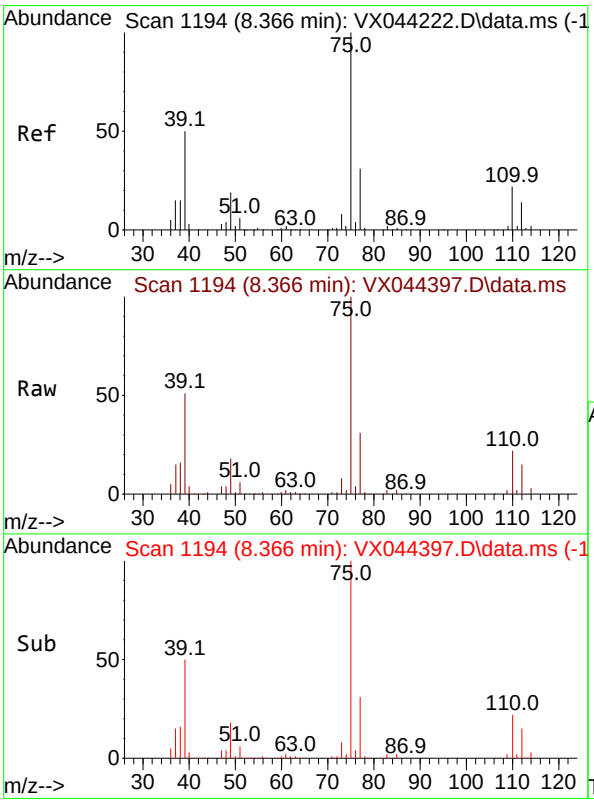
#53
t-1,3-Dichloropropene
Concen: 48.259 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 115357

Ion	Ratio	Lower	Upper
75	100		
77	32.6	27.2	40.8

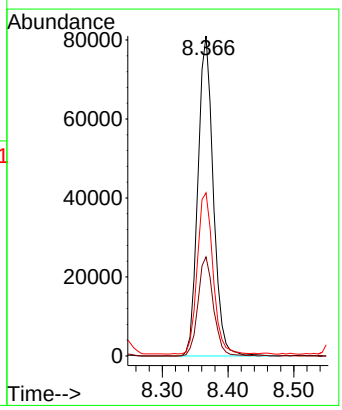


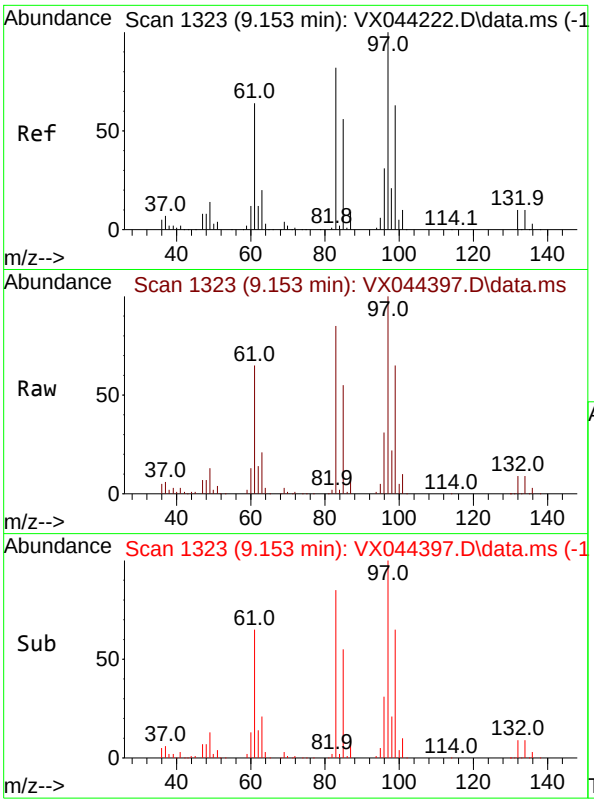


#54
cis-1,3-Dichloropropene
Concen: 54.285 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 75 Resp: 131957

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.7	37.1
39	50.5	40.3	60.5



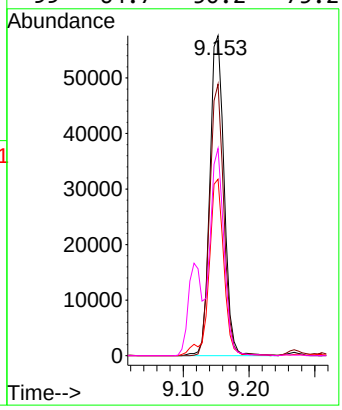


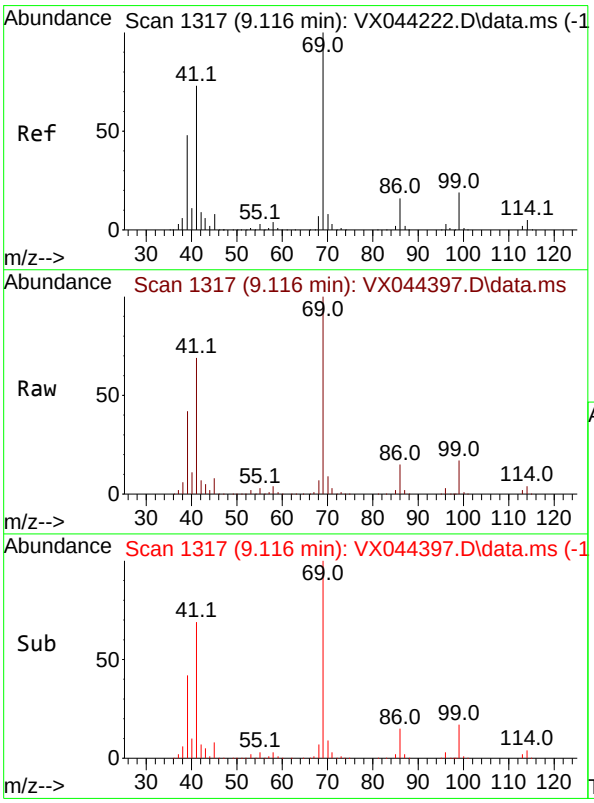
#55
1,1,2-Trichloroethane
Concen: 53.669 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 87322

Ion	Ratio	Lower	Upper
97	100		
83	84.8	65.3	97.9
85	55.2	44.6	67.0
99	64.7	50.2	75.2

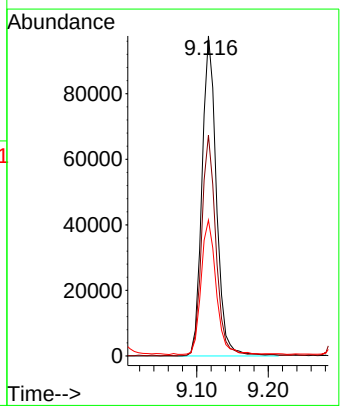


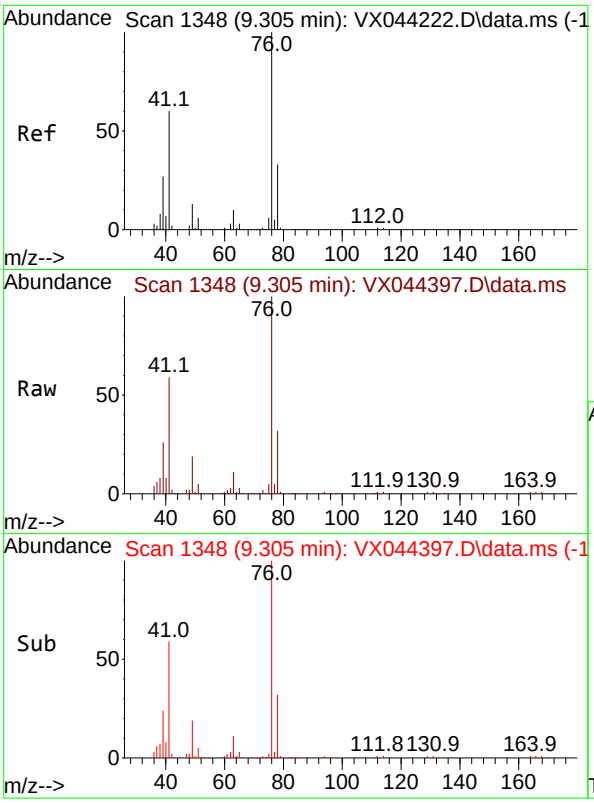


#56
Ethyl methacrylate
Concen: 53.333 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 69 Resp: 136992

Ion	Ratio	Lower	Upper
69	100		
41	68.5	56.6	85.0
39	43.6	37.4	56.0



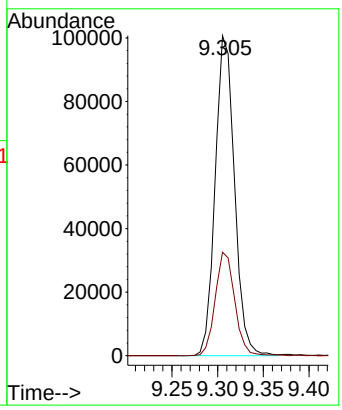


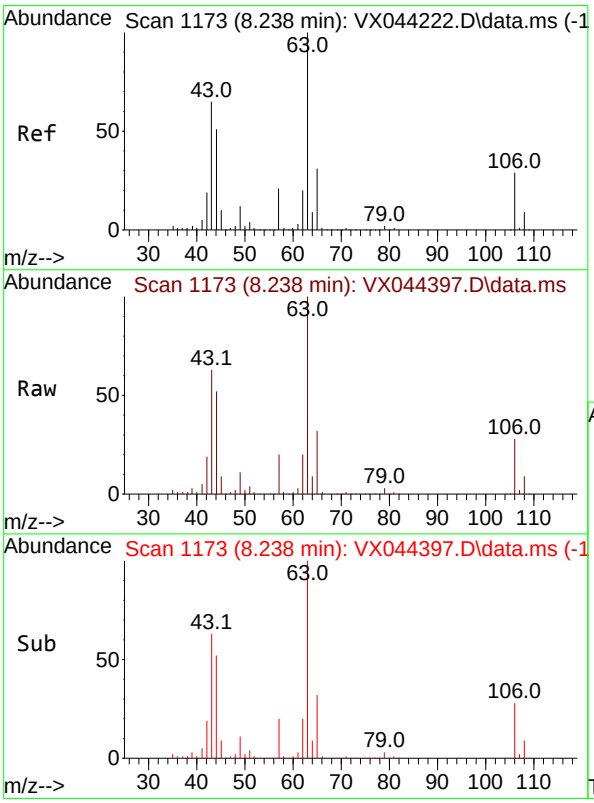
#57
1,3-Dichloropropane
Concen: 52.251 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 147976

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.5	39.7

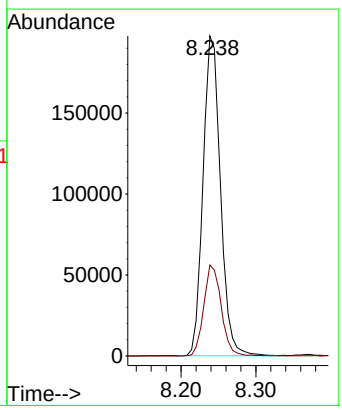


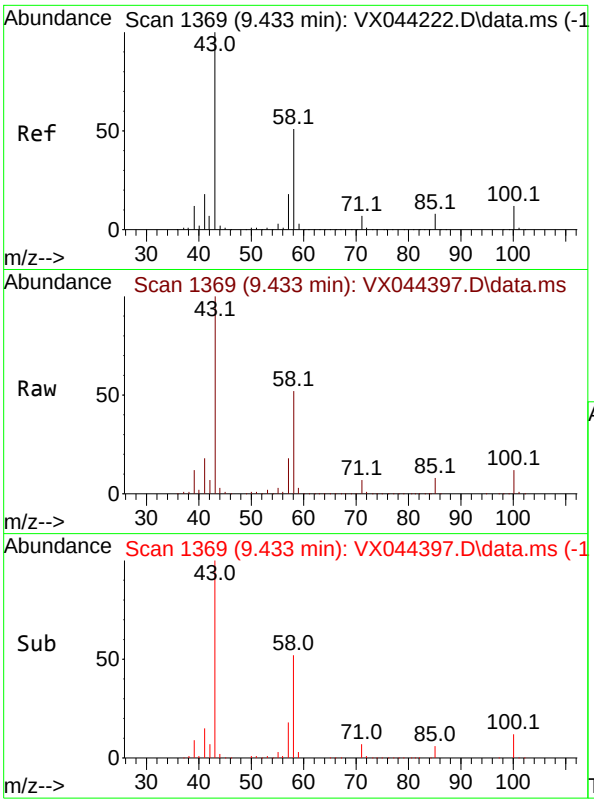


#58
2-Chloroethyl Vinyl ether
Concen: 246.430 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 63 Resp: 319257

Ion	Ratio	Lower	Upper
63	100		
106	28.7	22.8	34.2



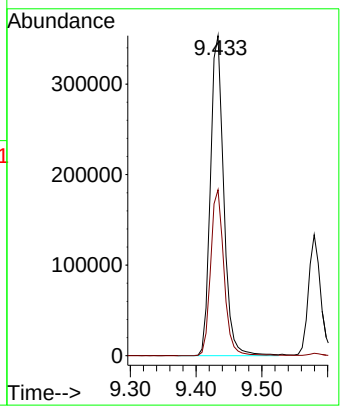


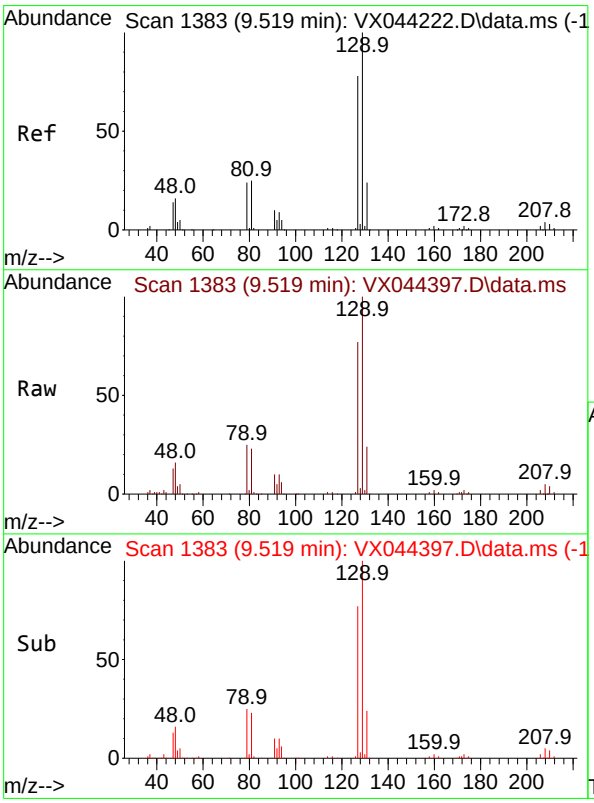
#59
2-Hexanone
Concen: 258.095 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 498511

Ion	Ratio	Lower	Upper
43	100		
58	52.1	25.7	77.0

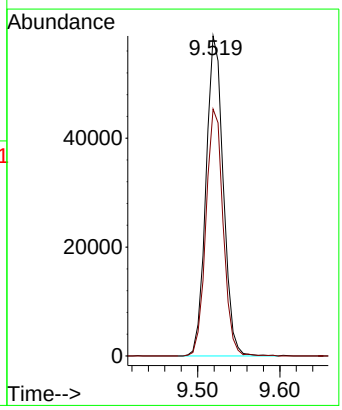


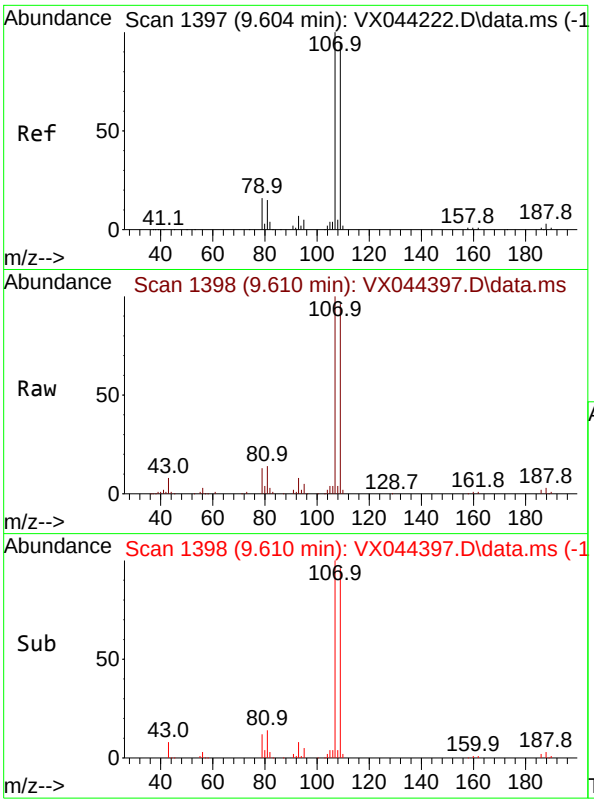


#60
Dibromochloromethane
Concen: 49.779 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:129 Resp: 85744

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.5	115.3



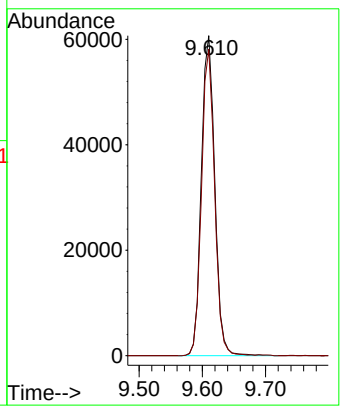


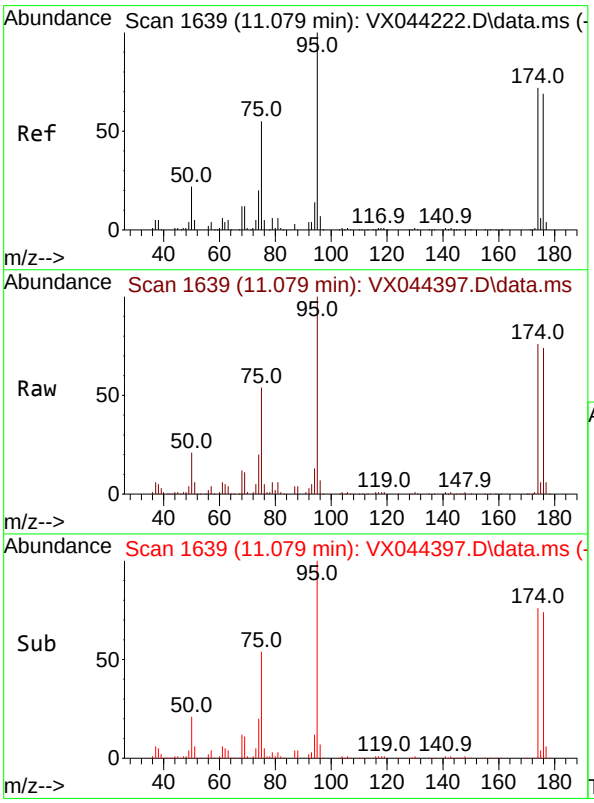
#61
1,2-Dibromoethane
Concen: 54.158 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 89694

Ion	Ratio	Lower	Upper
107	100		
109	93.7	77.0	115.4

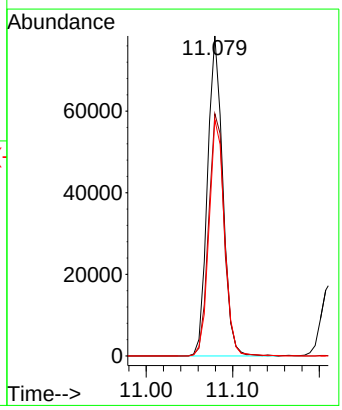


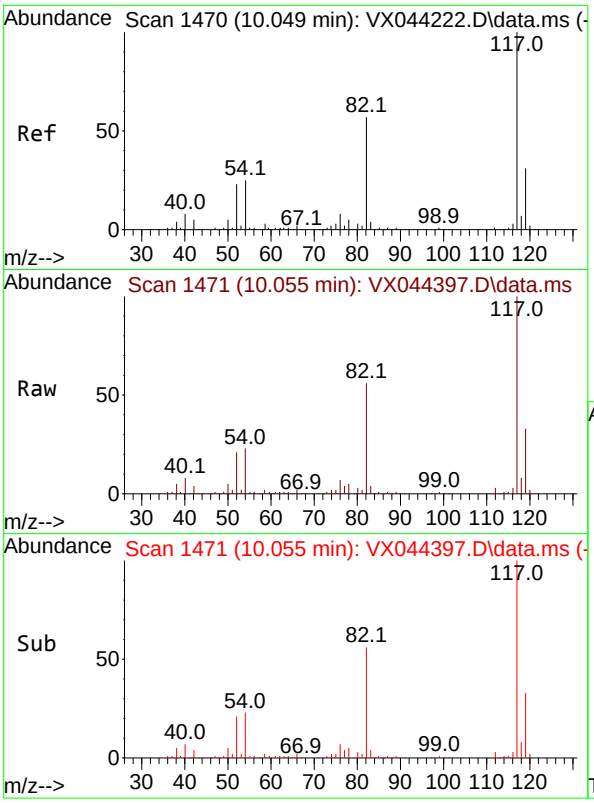


#62
4-Bromofluorobenzene
Concen: 49.060 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 95 Resp: 96109

Ion	Ratio	Lower	Upper
95	100		
174	77.3	0.0	145.8
176	74.8	0.0	137.8



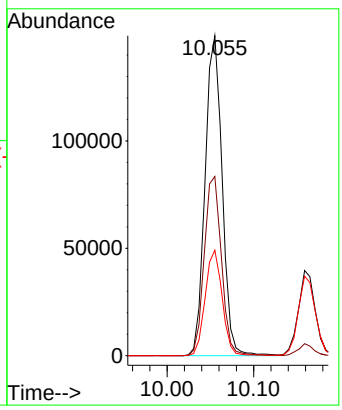


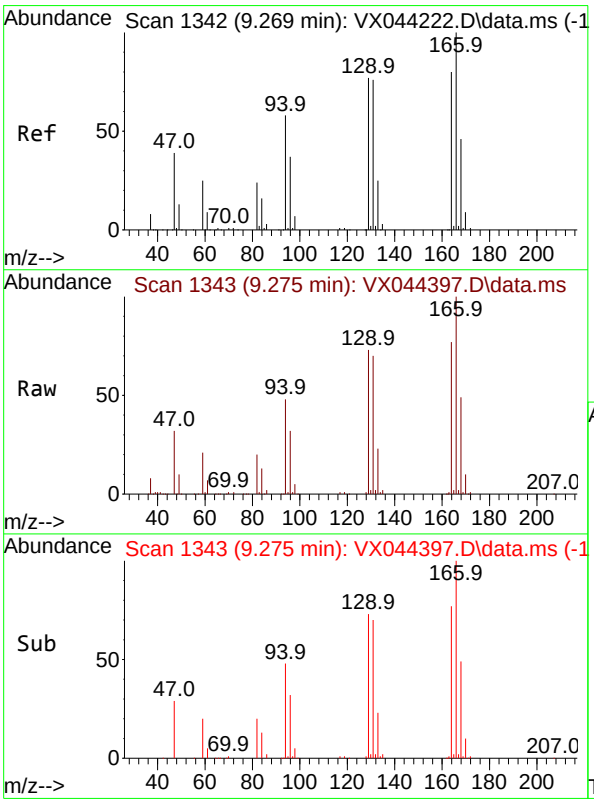
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 204282

Ion	Ratio	Lower	Upper
117	100		
82	56.0	45.8	68.8
119	33.0	25.0	37.4

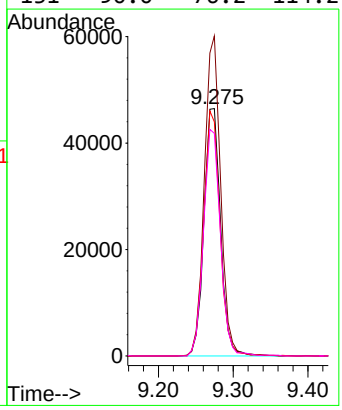


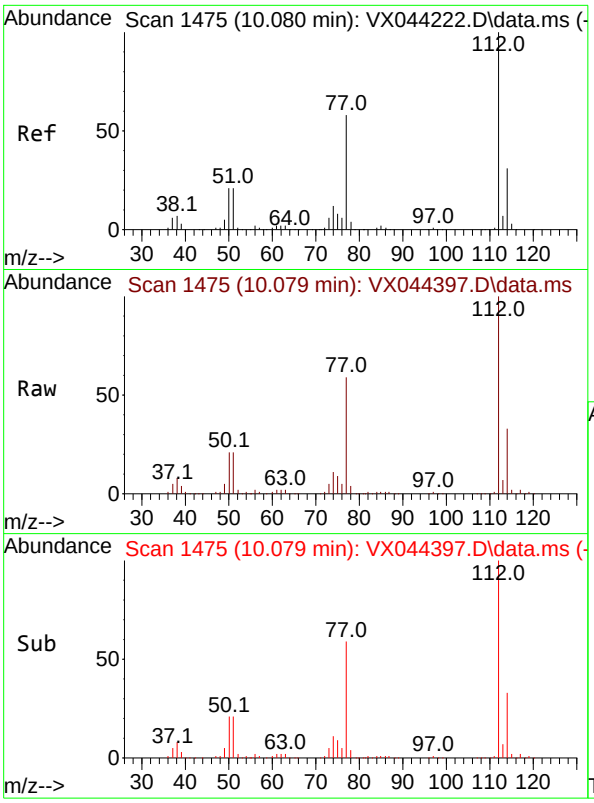


#64
Tetrachloroethene
Concen: 52.769 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:164 Resp: 71547

Ion	Ratio	Lower	Upper
164	100		
166	129.4	100.4	150.6
129	94.6	77.2	115.8
131	90.0	76.2	114.2



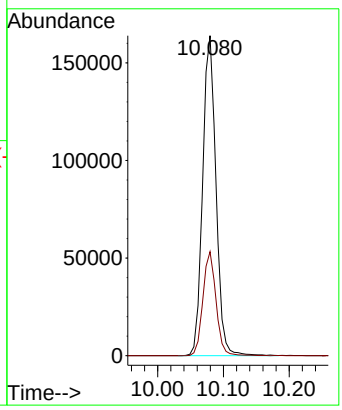


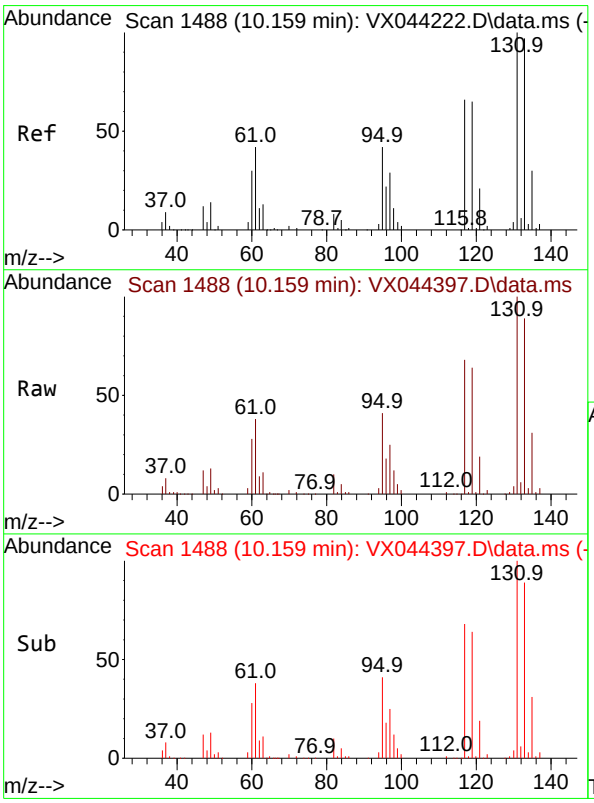
#65
Chlorobenzene
Concen: 52.745 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 230882

Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.0	37.6

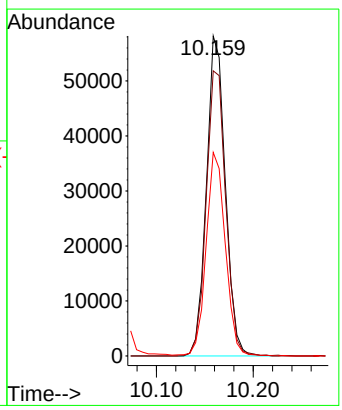


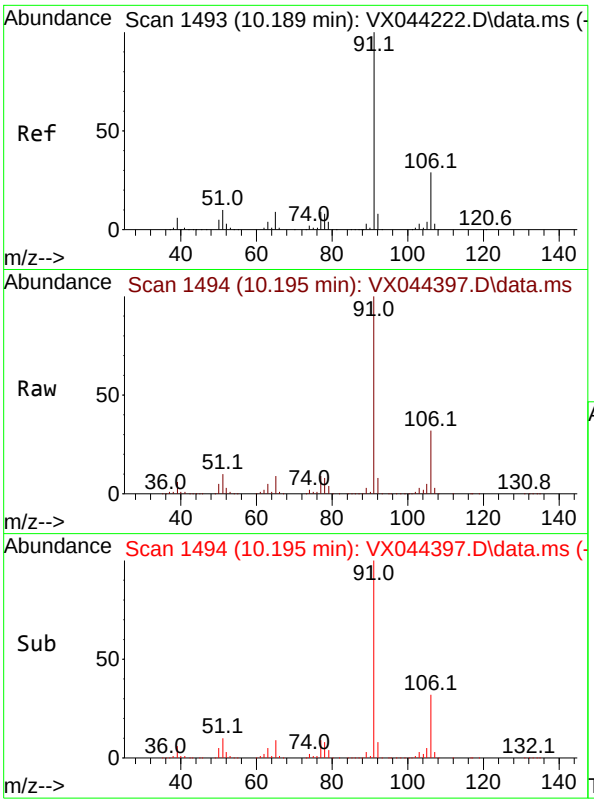


#66
1,1,1,2-Tetrachloroethane
Concen: 56.175 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:131 Resp: 79028

Ion	Ratio	Lower	Upper
131	100		
133	92.5	47.3	141.8
119	64.8	31.6	95.0



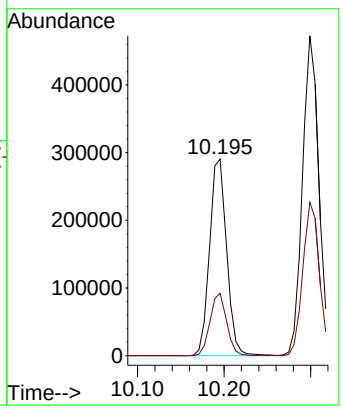


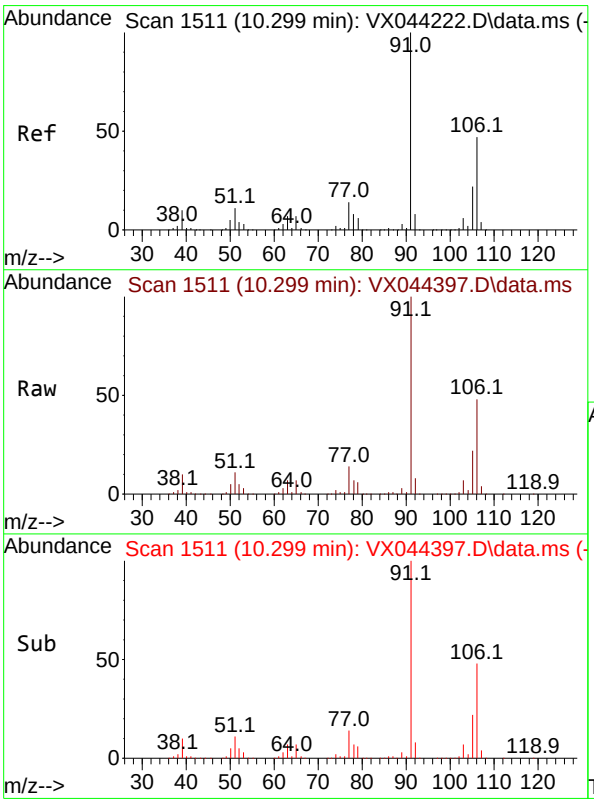
#67
Ethyl Benzene
Concen: 52.690 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 398506

Ion	Ratio	Lower	Upper
91	100		
106	31.8	23.5	35.3

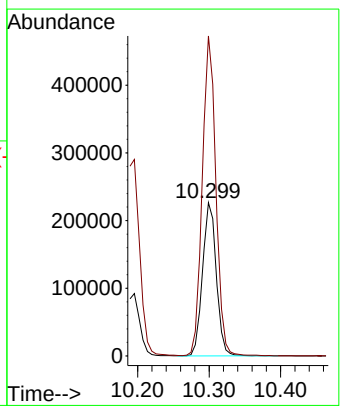


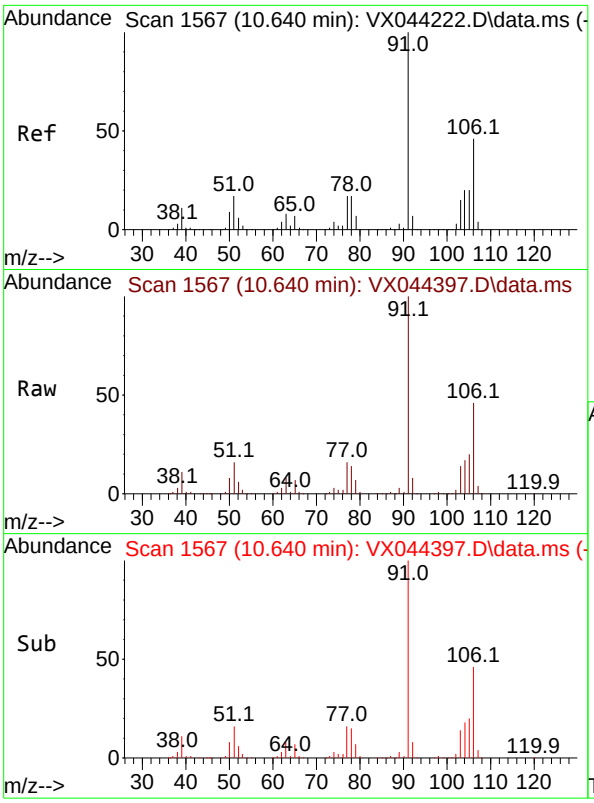


#68
m/p-Xylenes
Concen: 109.271 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:106 Resp: 303258

Ion	Ratio	Lower	Upper
106	100		
91	206.1	170.2	255.2



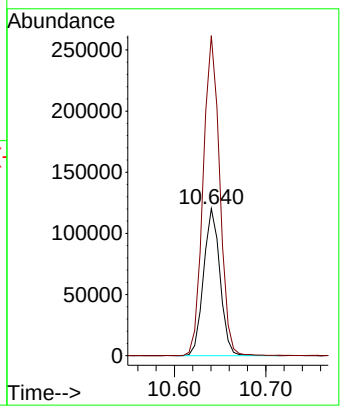


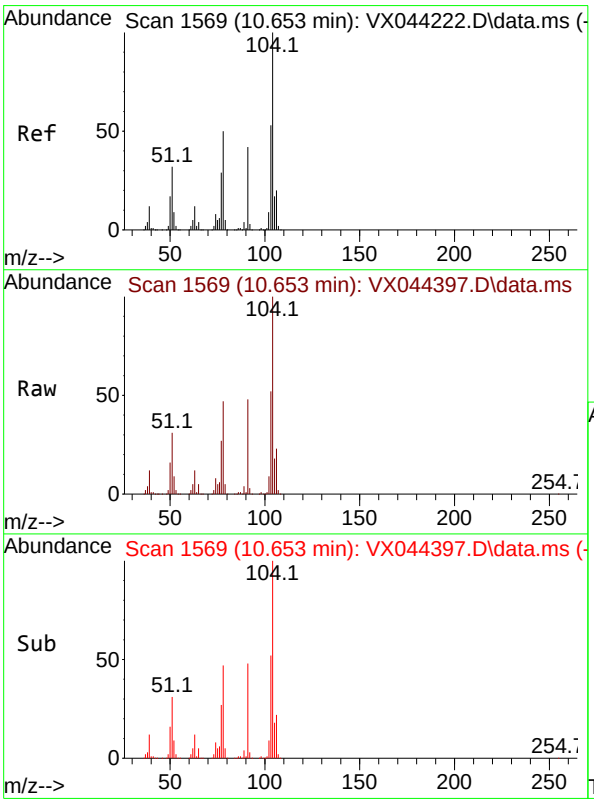
#69
o-Xylene
Concen: 53.305 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 149680

Ion	Ratio	Lower	Upper
106	100		
91	219.8	112.3	337.0

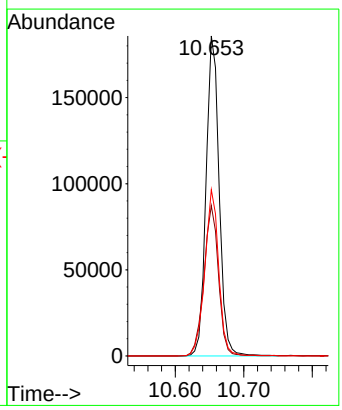


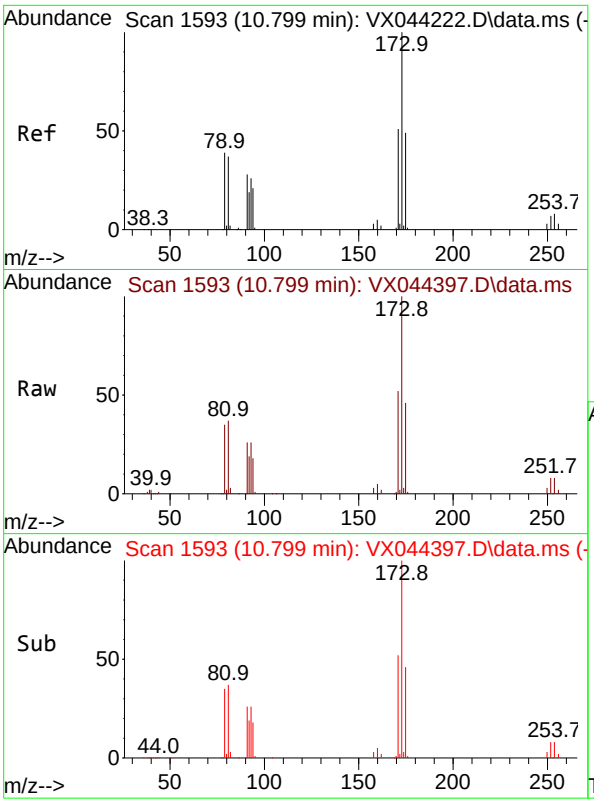


#70
Styrene
Concen: 54.971 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:104 Resp: 247455

Ion	Ratio	Lower	Upper
104	100		
78	52.3	44.6	67.0
103	55.4	45.4	68.0



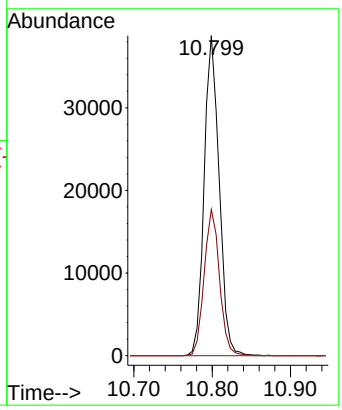


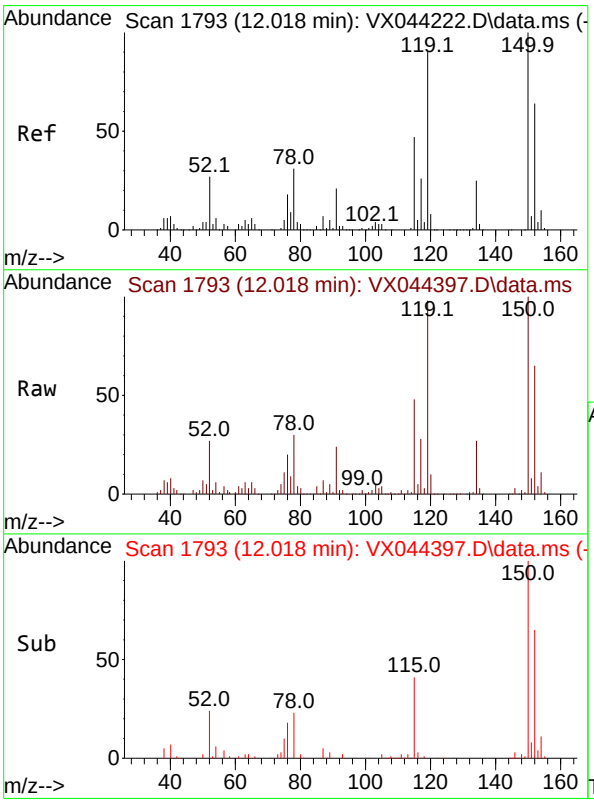
#71
Bromoform
Concen: 52.002 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 51387

Ion	Ratio	Lower	Upper
173	100		
175	46.8	23.8	71.4
254	0.0	0.0	0.0

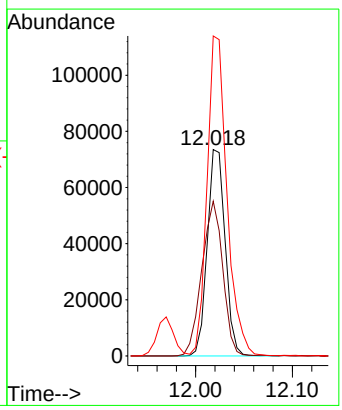


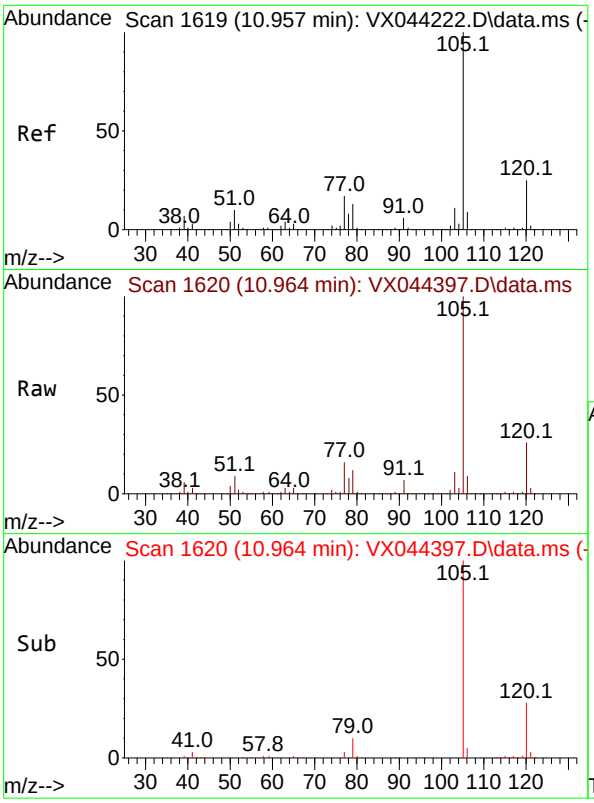


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:152 Resp: 94679

Ion	Ratio	Lower	Upper
152	100		
115	87.8	44.5	133.3
150	171.8	0.0	353.8



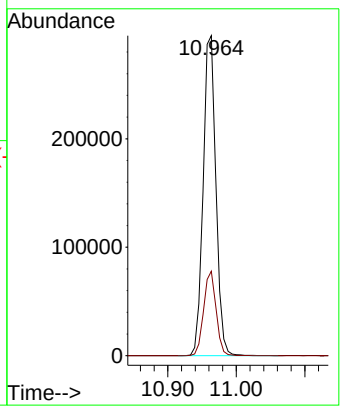


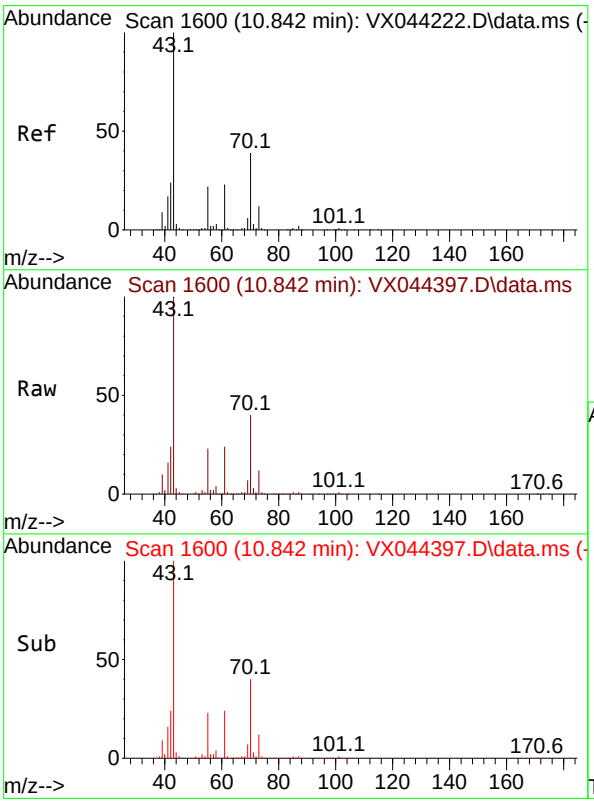
#73
Isopropylbenzene
Concen: 52.735 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 382227

Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.1	39.3

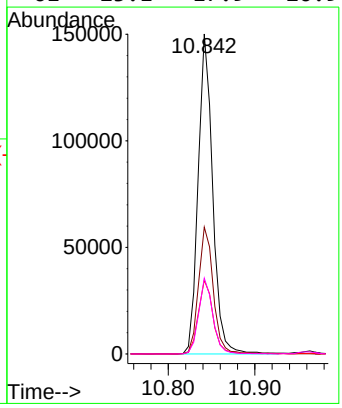


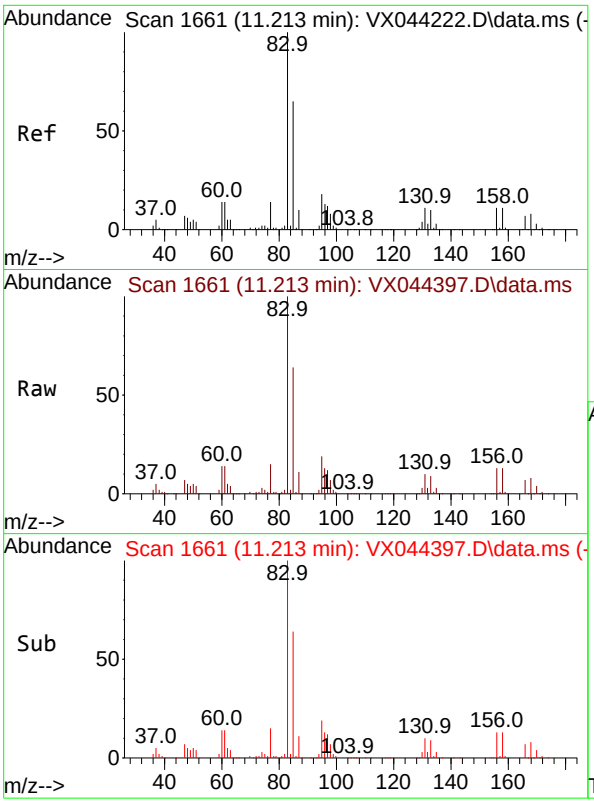


#74
N-amyl acetate
Concen: 52.327 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 43 Resp: 175282

Ion	Ratio	Lower	Upper
43	100		
70	40.7	31.9	47.9
55	23.5	17.9	26.9
61	23.1	17.9	26.9



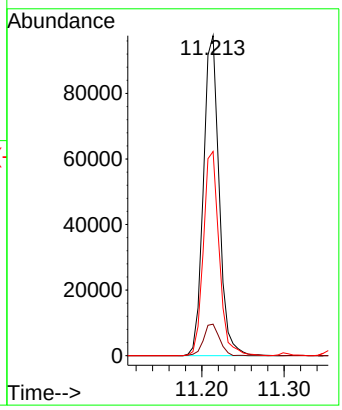


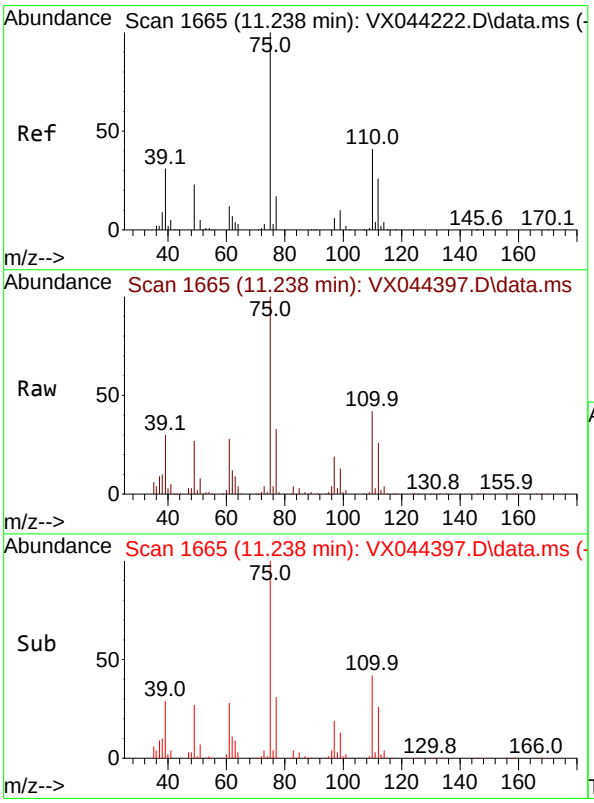
#75
1,1,2,2-Tetrachloroethane
Concen: 51.441 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 129501

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	64.0	32.5	97.4

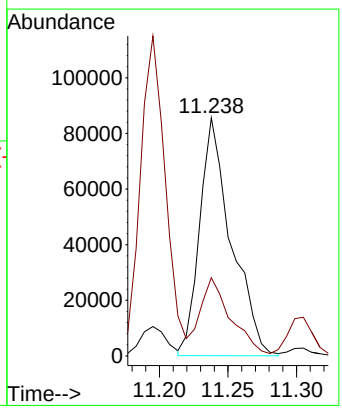


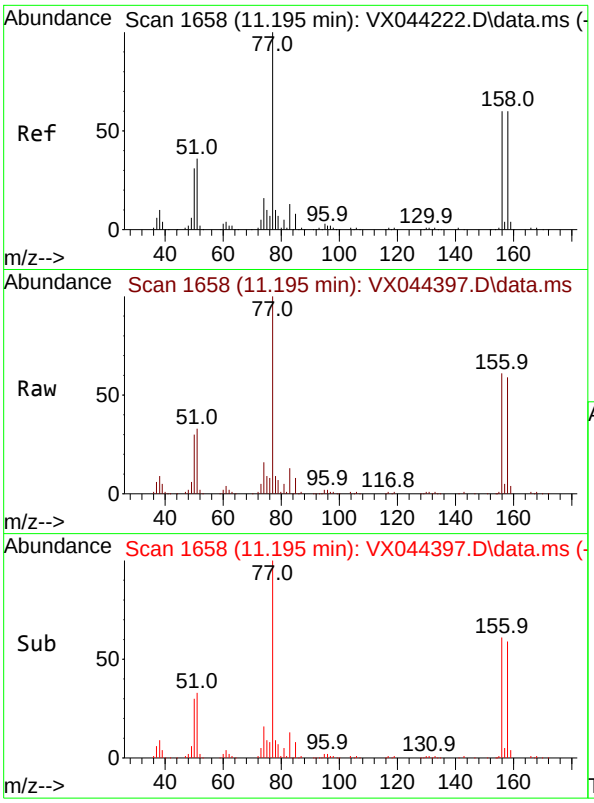


#76
1,2,3-Trichloropropane
Concen: 64.994 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 75 Resp: 137395

Ion	Ratio	Lower	Upper
75	100		
77	32.1	20.9	62.7



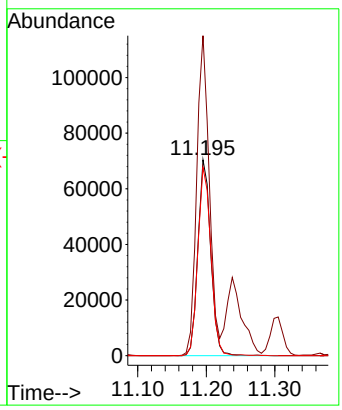


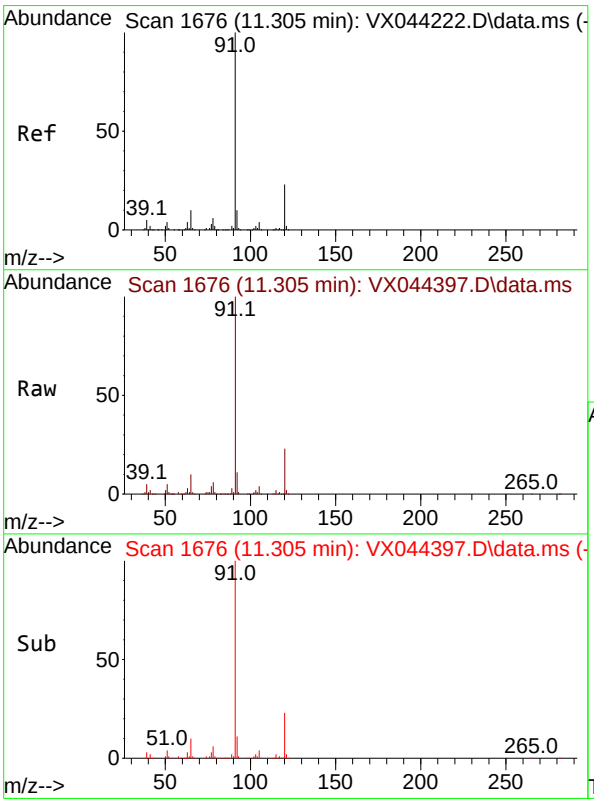
#77
Bromobenzene
Concen: 52.151 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 91662

Ion	Ratio	Lower	Upper
156	100		
77	160.6	82.6	247.8
158	97.9	48.8	146.4

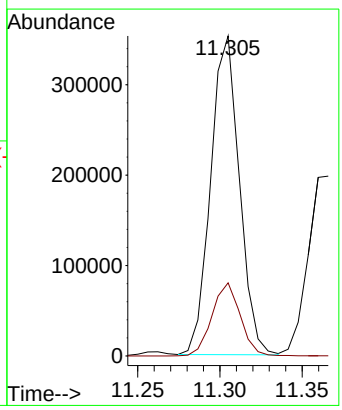


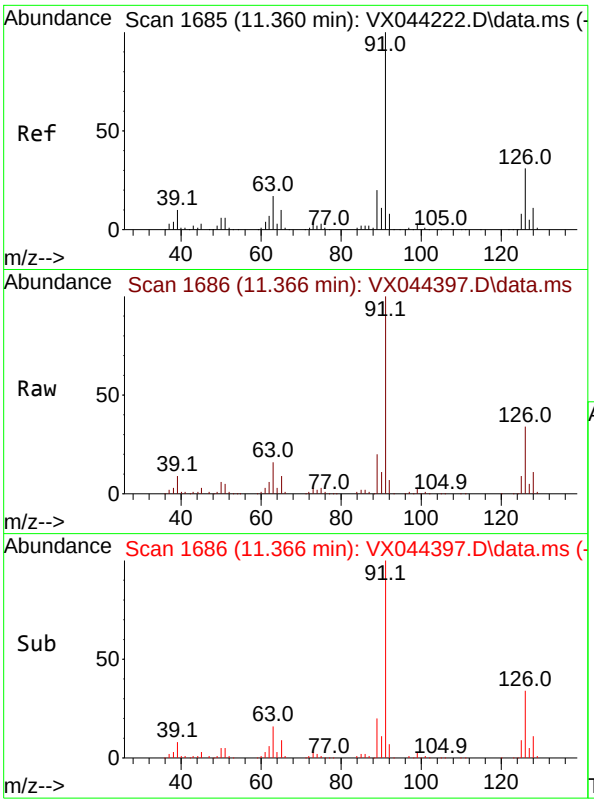


#78
n-propylbenzene
Concen: 53.471 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 91 Resp: 428354

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.0	33.0



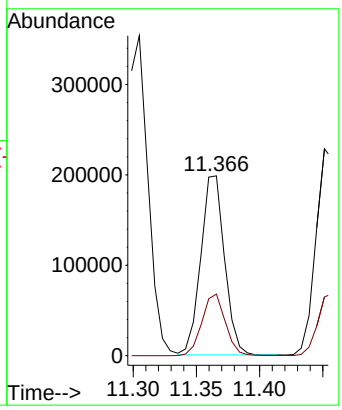


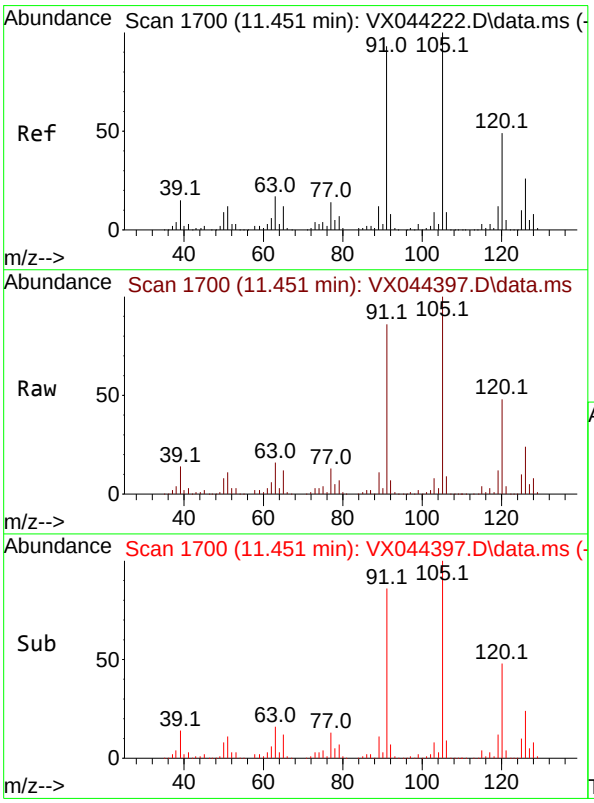
#79
2-Chlorotoluene
Concen: 50.109 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 259611

Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.4	49.1

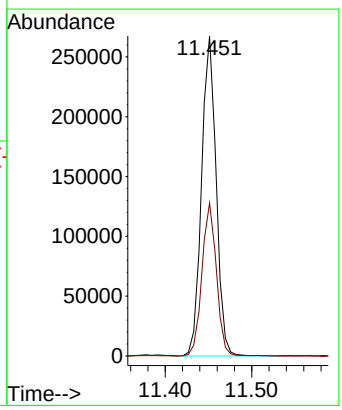


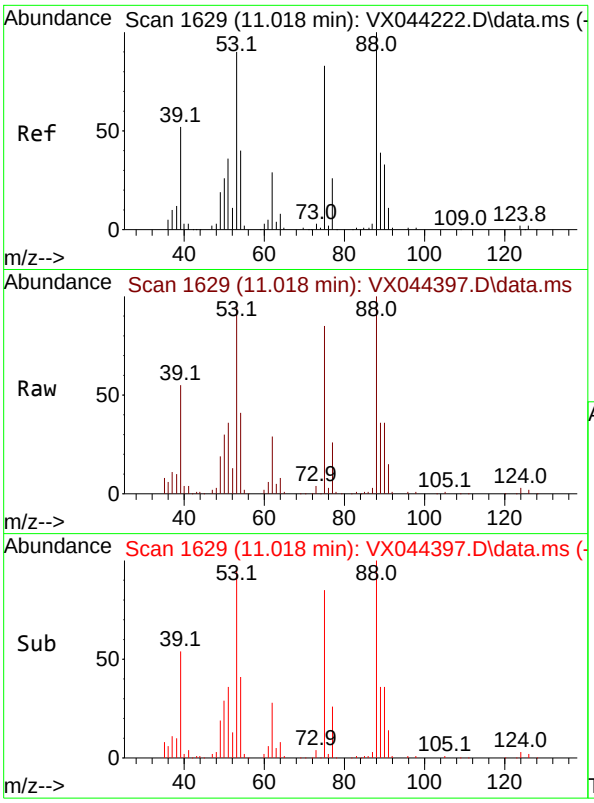


#80
1,3,5-Trimethylbenzene
Concen: 52.028 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:105 Resp: 312728

Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.8	71.4



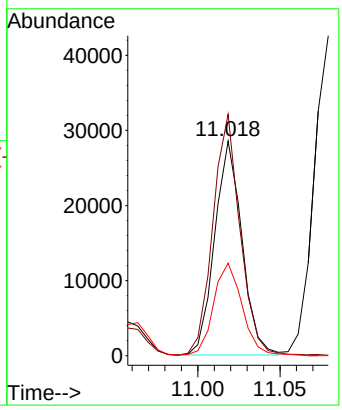


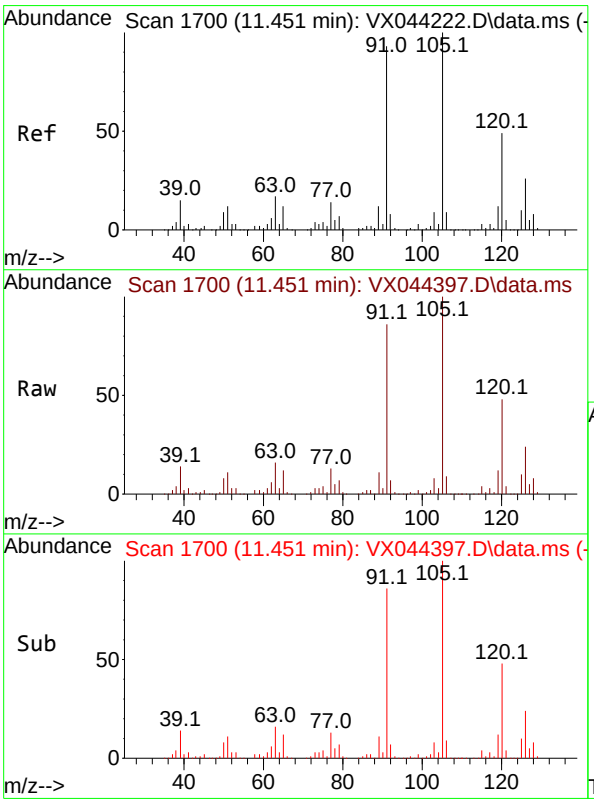
#81
trans-1,4-Dichloro-2-butene
Concen: 45.206 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 32905

Ion	Ratio	Lower	Upper
75	100		
53	113.2	93.6	140.4
89	45.4	37.3	55.9

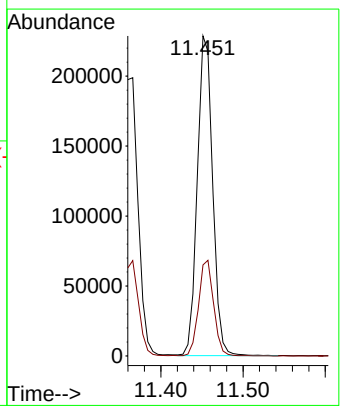


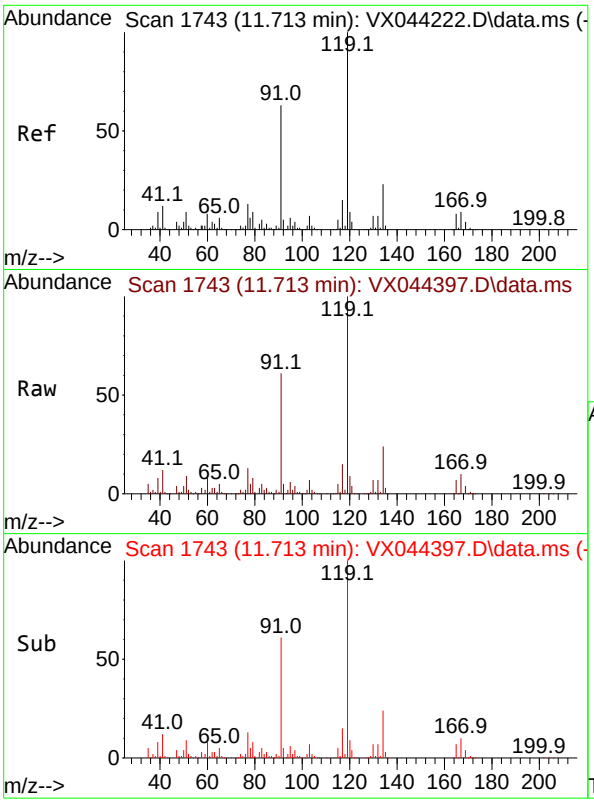


#82
4-Chlorotoluene
Concen: 51.648 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 91 Resp: 296313

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.5	43.5



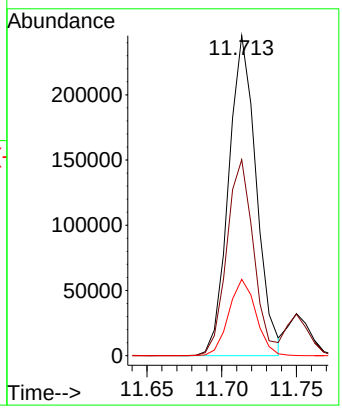


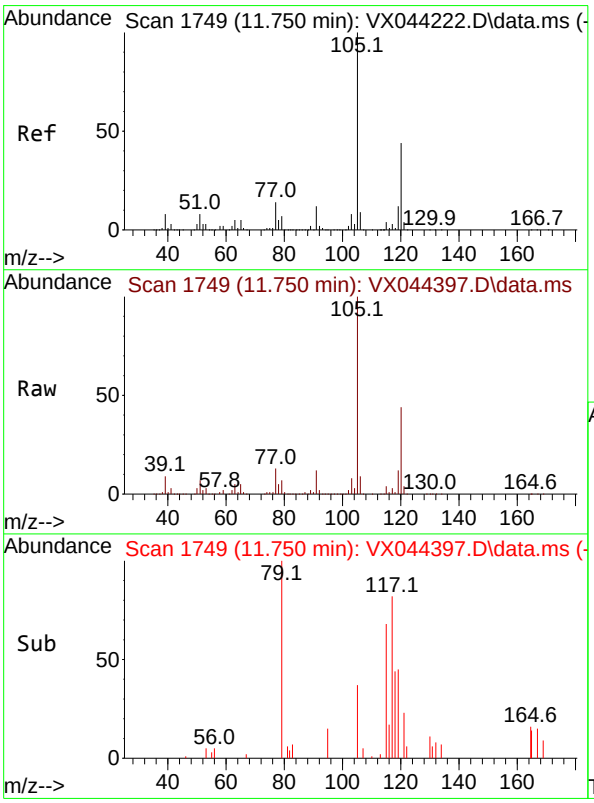
#83
tert-Butylbenzene
Concen: 53.085 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 315339

Ion	Ratio	Lower	Upper
119	100		
91	60.1	30.9	92.5
134	23.5	11.5	34.4

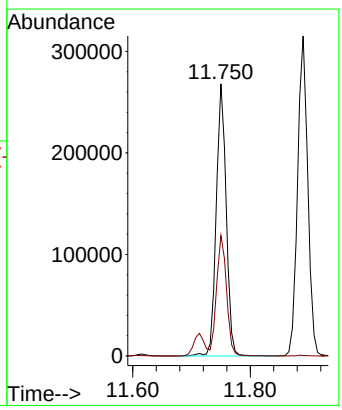


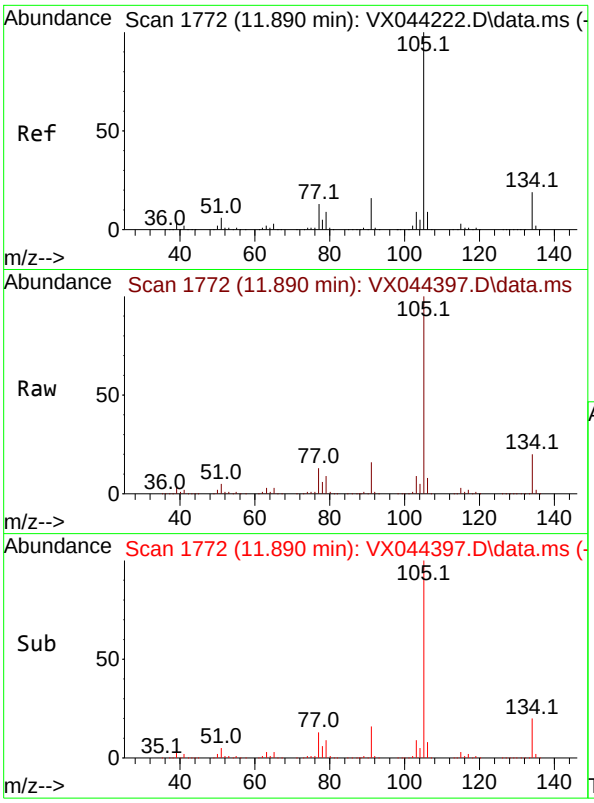


#84
1,2,4-Trimethylbenzene
Concen: 53.346 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:105 Resp: 314902

Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.7	65.1



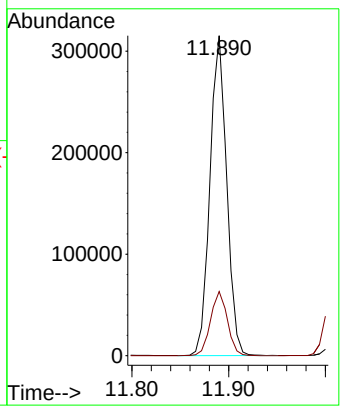


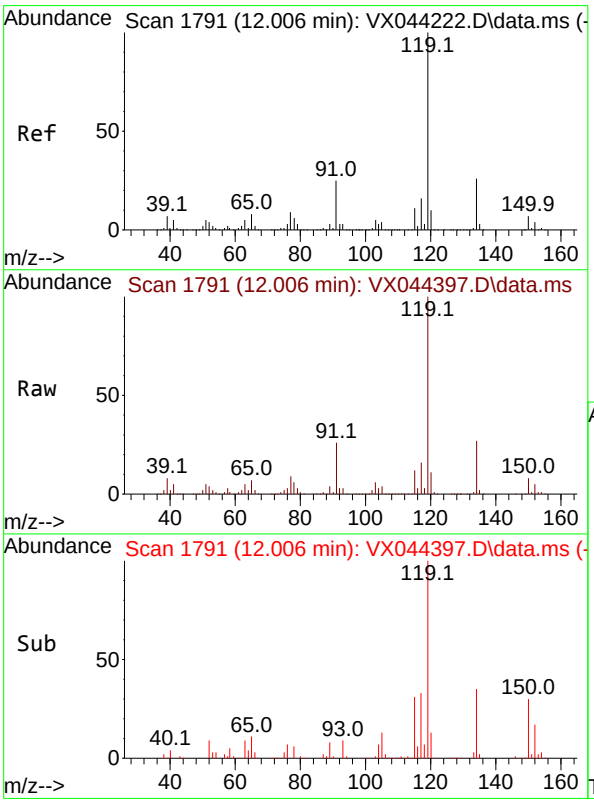
#85
sec-Butylbenzene
Concen: 52.496 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 378572

Ion	Ratio	Lower	Upper
105	100		
134	20.2	9.8	29.4

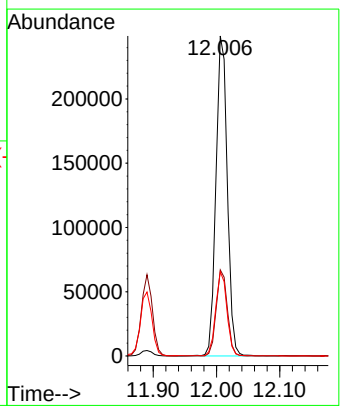


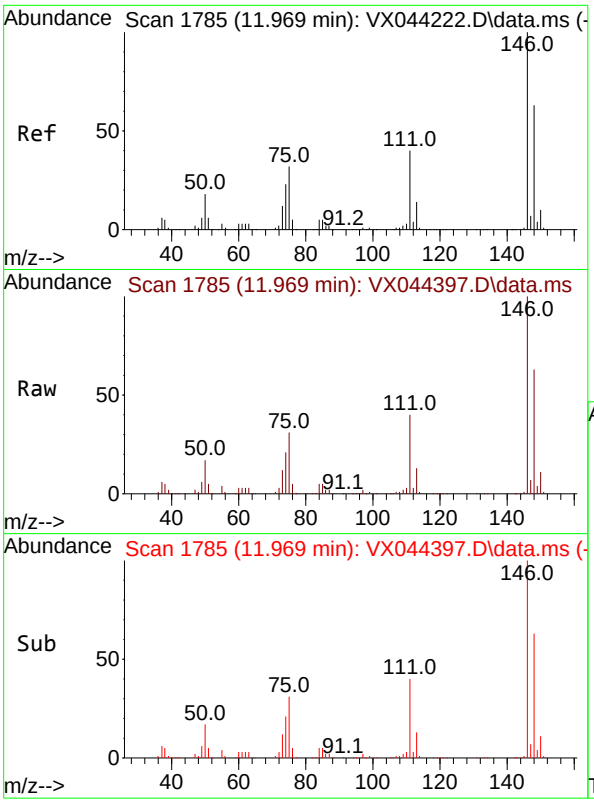


#86
p-Isopropyltoluene
Concen: 51.481 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:119 Resp: 308993

Ion	Ratio	Lower	Upper
119	100		
134	26.5	12.8	38.4
91	26.0	13.0	39.0



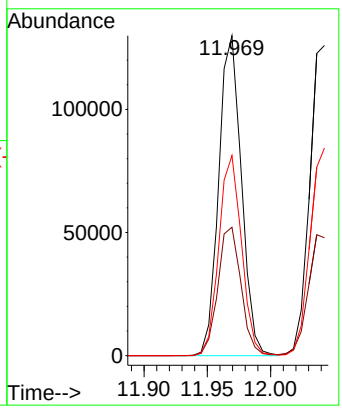


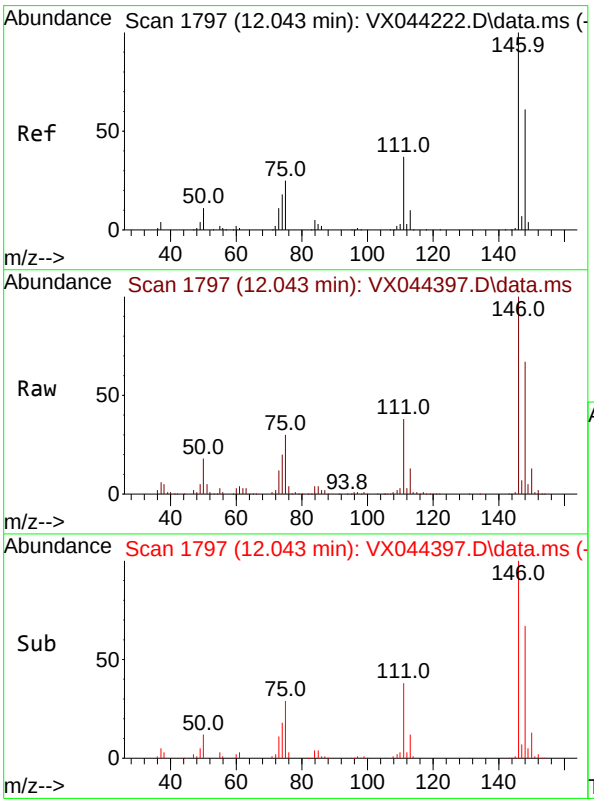
#87
1,3-Dichlorobenzene
Concen: 52.762 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 161986

Ion	Ratio	Lower	Upper
146	100		
111	41.1	21.4	64.2
148	62.5	31.7	95.1

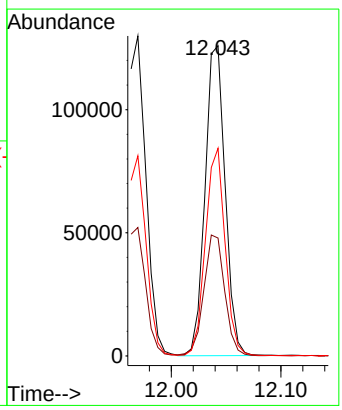


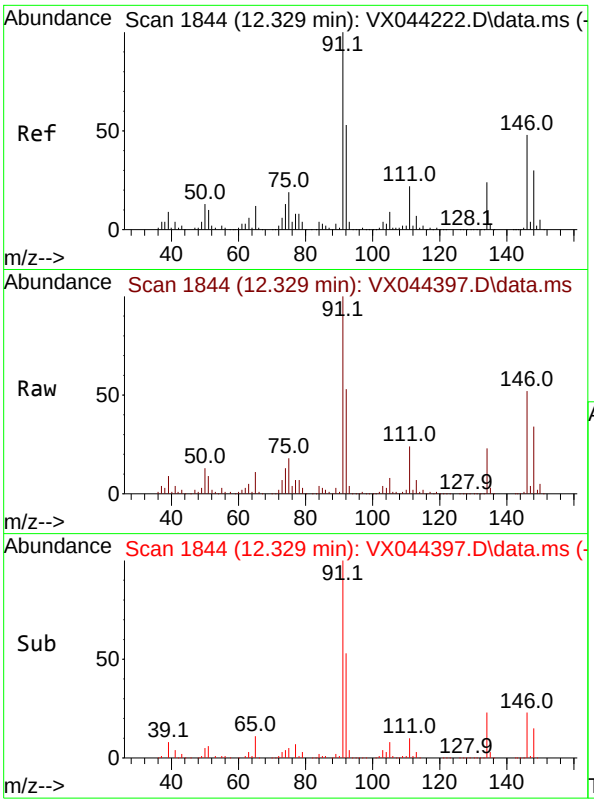


#88
1,4-Dichlorobenzene
Concen: 50.790 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:146 Resp: 160295

Ion	Ratio	Lower	Upper
146	100		
111	40.4	21.0	63.0
148	65.8	32.3	96.8



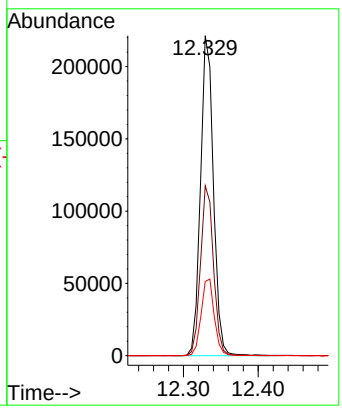


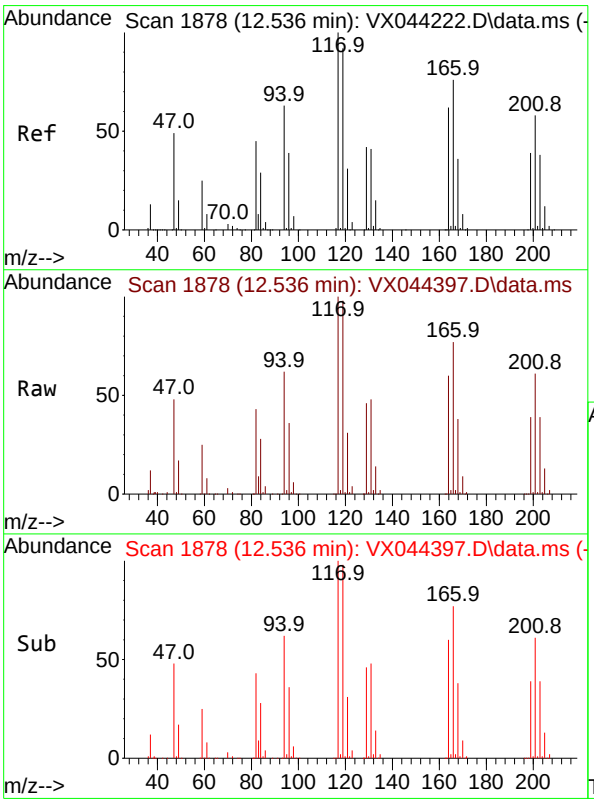
#89
n-Butylbenzene
Concen: 52.608 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 265516

Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.6	79.7
134	24.5	12.6	37.8

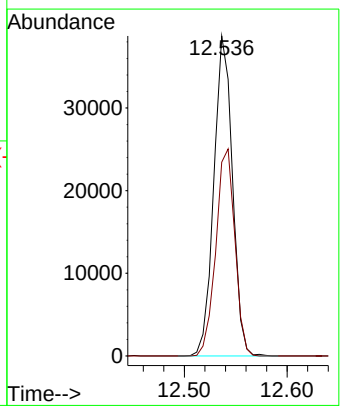


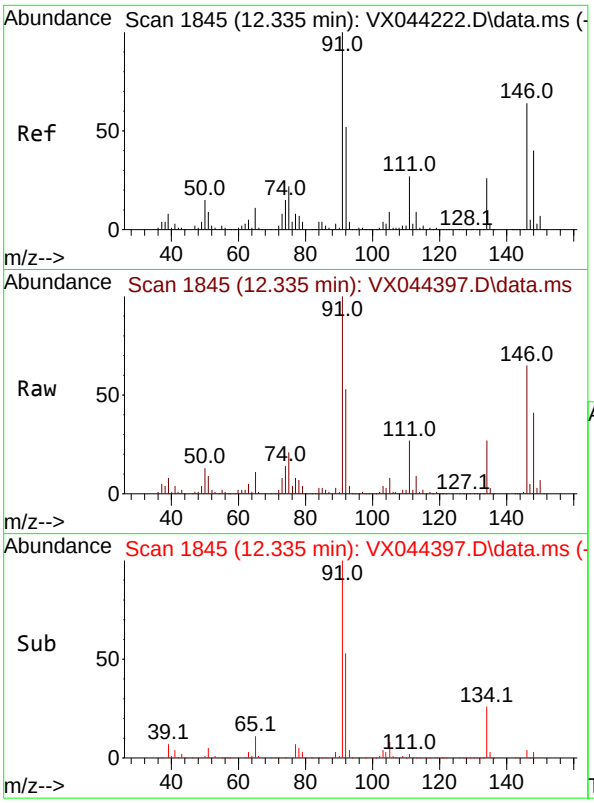


#90
Hexachloroethane
Concen: 55.440 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:117 Resp: 48574

Ion	Ratio	Lower	Upper
117	100		
201	66.1	31.4	94.2



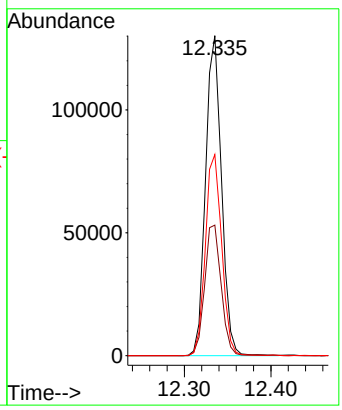


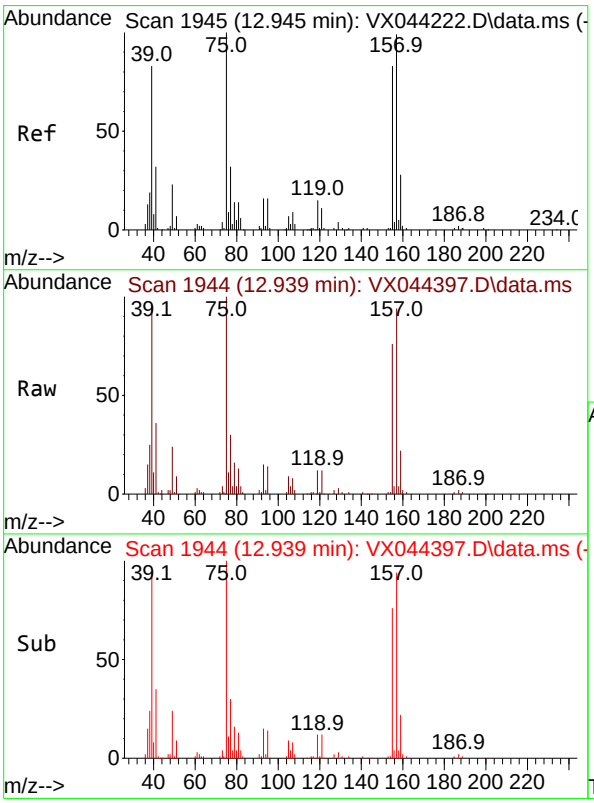
#91
1,2-Dichlorobenzene
Concen: 52.197 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 166397

Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.4	64.3
148	64.4	31.6	95.0

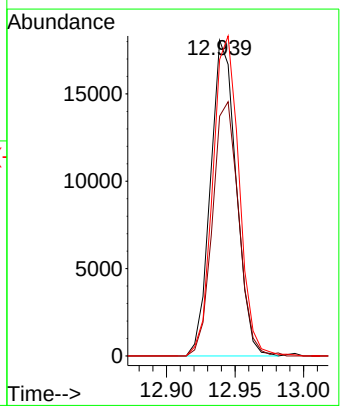


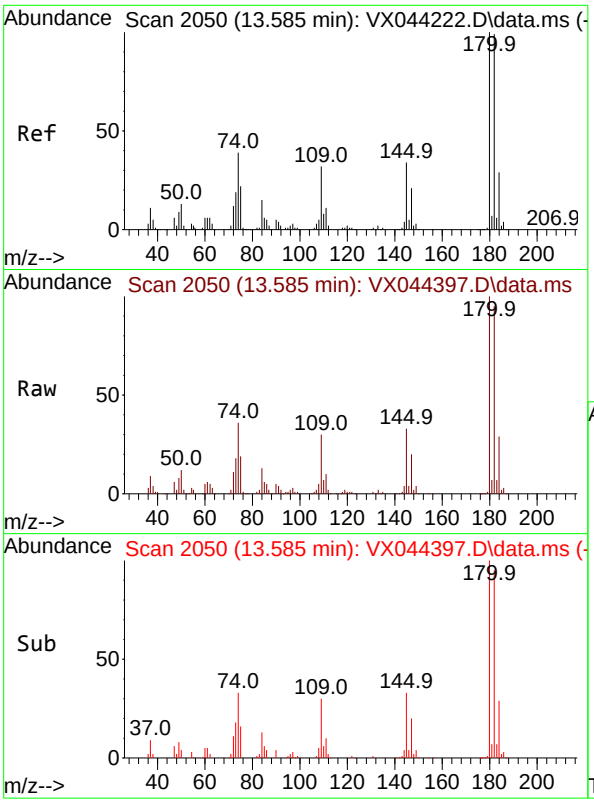


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.201 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion: 75 Resp: 23556

Ion	Ratio	Lower	Upper
75	100		
155	81.9	38.1	114.3
157	103.6	47.2	141.6



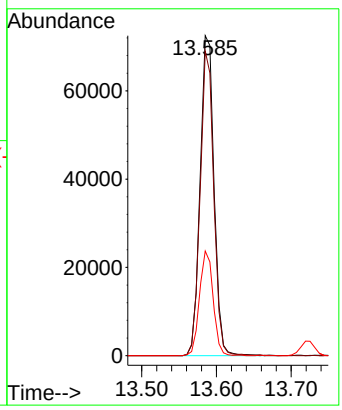


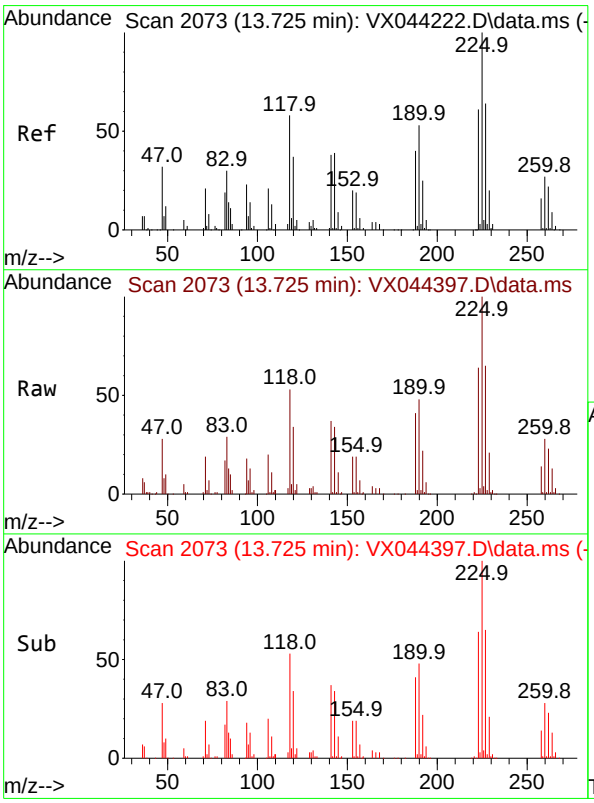
#93
1,2,4-Trichlorobenzene
Concen: 53.639 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 93745

Ion	Ratio	Lower	Upper
180	100		
182	93.1	48.0	144.2
145	32.1	16.6	49.7

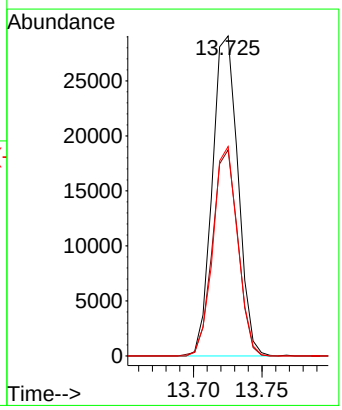


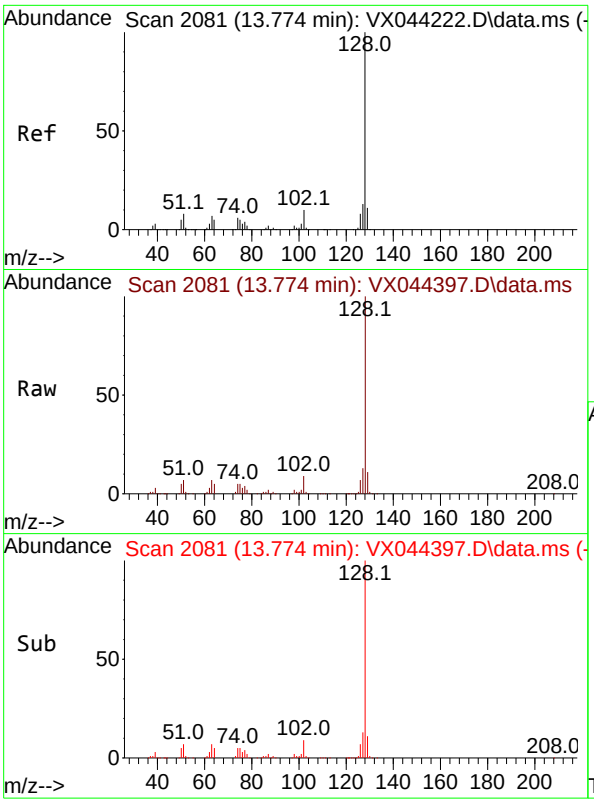


#94
Hexachlorobutadiene
Concen: 53.766 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:225 Resp: 37797

Ion	Ratio	Lower	Upper
225	100		
223	63.4	30.8	92.4
227	63.1	32.1	96.3



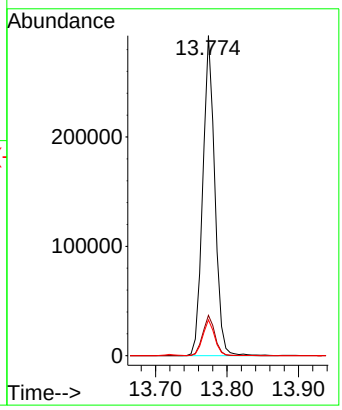


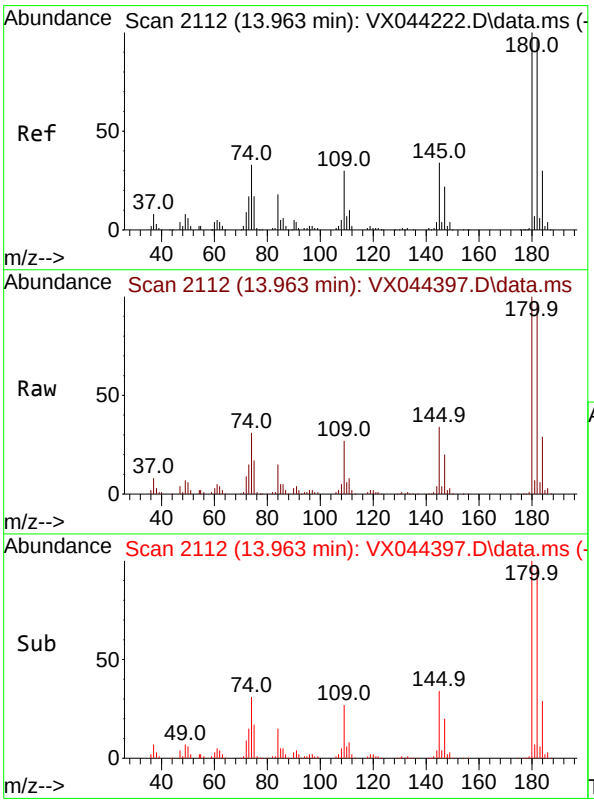
#95
Naphthalene
Concen: 50.021 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 341241

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.5	15.7
129	11.1	9.0	13.4

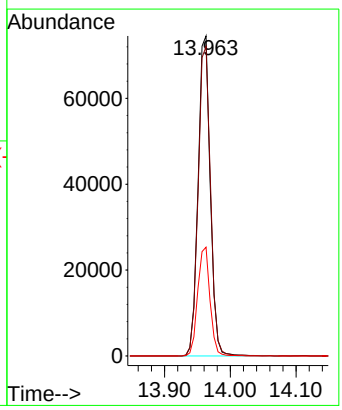




#96
1,2,3-Trichlorobenzene
Concen: 51.669 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044397.D
Acq: 18 Dec 2024 21:48

Tgt Ion:180 Resp: 95779

Ion	Ratio	Lower	Upper
180	100		
182	98.1	48.0	144.0
145	34.3	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044399.D
Acq On : 18 Dec 2024 23:22
Operator : JC/MD
Sample : VX1218WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Quant Time: Dec 19 00:56:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	128991	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	233001	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	200137	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	86763	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	114115	50.457	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.920%			
35) Dibromofluoromethane	5.385	113	85034	52.694	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.380%			
50) Toluene-d8	8.647	98	277165	50.909	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.820%			
62) 4-Bromofluorobenzene	11.079	95	92307	48.522	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.040%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	37942	19.023	ug/l	93
3) Chloromethane	1.300	50	40751	21.366	ug/l	100
4) Vinyl Chloride	1.374	62	40892	20.579	ug/l	97
5) Bromomethane	1.593	94	28914	20.511	ug/l	95
6) Chloroethane	1.666	64	30101	24.328	ug/l	97
7) Trichlorofluoromethane	1.874	101	61744	15.872	ug/l	98
8) Diethyl Ether	2.136	74	26105	19.660	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	28167	17.894	ug/l	97
10) Methyl Iodide	2.447	142	43853	21.138	ug/l	98
11) Tert butyl alcohol	2.989	59	33835	106.151	ug/l	97
12) 1,1-Dichloroethene	2.306	96	29065	20.103	ug/l	97
13) Acrolein	2.239	56	48772	105.705	ug/l	98
14) Allyl chloride	2.654	41	48506	20.142	ug/l	97
15) Acrylonitrile	3.068	53	96056	108.791	ug/l	99
16) Acetone	2.386	43	86799	94.139	ug/l	96
17) Carbon Disulfide	2.501	76	51728	18.822	ug/l	98
18) Methyl Acetate	2.709	43	50558	21.267	ug/l	93
19) Methyl tert-butyl Ether	3.117	73	114860	20.358	ug/l	97
20) Methylene Chloride	2.782	84	36674	21.177	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	30353	19.753	ug/l	90
22) Diisopropyl ether	3.763	45	112563	20.757	ug/l	89
23) Vinyl Acetate	3.721	43	475270	107.800	ug/l	98
24) 1,1-Dichloroethane	3.605	63	64774	21.428	ug/l	100
25) 2-Butanone	4.568	43	134799	102.837	ug/l	95
26) 2,2-Dichloropropane	4.465	77	38575	15.708	ug/l	96
27) cis-1,2-Dichloroethene	4.489	96	39781	20.385	ug/l	93
28) Bromochloromethane	4.897	49	30856	20.816	ug/l	100
29) Tetrahydrofuran	5.007	42	87910	104.485	ug/l	98
30) Chloroform	5.092	83	68906	20.289	ug/l	94
31) Cyclohexane	5.464	56	43349	17.759	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	55108	19.547	ug/l	99
36) 1,1-Dichloropropene	5.690	75	38087	18.259	ug/l	99
37) Ethyl Acetate	4.721	43	51828	20.100	ug/l	97
38) Carbon Tetrachloride	5.672	117	41400	18.435	ug/l	93
39) Methylcyclohexane	7.379	83	44052	17.665	ug/l	97
40) Benzene	6.037	78	131536	20.769	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044399.D
Acq On : 18 Dec 2024 23:22
Operator : JC/MD
Sample : VX1218WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Quant Time: Dec 19 00:56:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	29615	21.629	ug/l		99
42) 1,2-Dichloroethane	6.080	62	53845	20.639	ug/l		97
43) Isopropyl Acetate	6.348	43	84024	20.849	ug/l		97
44) Trichloroethene	7.123	130	31494	19.941	ug/l		99
45) 1,2-Dichloropropane	7.427	63	33512	20.711	ug/l		96
46) Dibromomethane	7.580	93	26590	21.182	ug/l		95
47) Bromodichloromethane	7.824	83	44915	20.717	ug/l		98
48) Methyl methacrylate	7.696	41	39226	20.050	ug/l		96
49) 1,4-Dioxane	7.665	88	10895	335.893	ug/l	#	68
51) 4-Methyl-2-Pentanone	8.574	43	276459	106.686	ug/l		100
52) Toluene	8.720	92	79570	20.006	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	41702	19.130	ug/l		93
54) cis-1,3-Dichloropropene	8.366	75	45604	19.319	ug/l	#	88
55) 1,1,2-Trichloroethane	9.153	97	34197	21.643	ug/l		98
56) Ethyl methacrylate	9.116	69	50855	20.388	ug/l		98
57) 1,3-Dichloropropane	9.305	76	57729	20.991	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	124927	99.300	ug/l		100
59) 2-Hexanone	9.433	43	197809	105.460	ug/l		99
60) Dibromochloromethane	9.518	129	30374	19.439	ug/l		99
61) 1,2-Dibromoethane	9.610	107	34910	21.706	ug/l		97
64) Tetrachloroethene	9.269	164	25159	18.940	ug/l		99
65) Chlorobenzene	10.079	112	81973	19.115	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	28201	20.461	ug/l		99
67) Ethyl Benzene	10.195	91	139144	18.778	ug/l		98
68) m/p-Xylenes	10.299	106	103433	38.041	ug/l		97
69) o-Xylene	10.640	106	52635	19.133	ug/l		97
70) Styrene	10.652	104	87058	19.740	ug/l		95
71) Bromoform	10.799	173	17299	19.959	ug/l	#	100
73) Isopropylbenzene	10.963	105	132502	19.949	ug/l		100
74) N-amyl acetate	10.841	43	64183	20.909	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	50710	21.981	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	51024	26.339	ug/l		90
77) Bromobenzene	11.195	156	32621	20.253	ug/l		99
78) n-propylbenzene	11.305	91	144182	19.640	ug/l		100
79) 2-Chlorotoluene	11.360	91	93621	19.719	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	107680	19.549	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	10659	19.586	ug/l		90
82) 4-Chlorotoluene	11.451	91	102797	19.553	ug/l		100
83) tert-Butylbenzene	11.713	119	105765	19.429	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	108536	20.064	ug/l		100
85) sec-Butylbenzene	11.890	105	126820	19.191	ug/l		99
86) p-Isopropyltoluene	12.006	119	107246	19.498	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	55710	19.801	ug/l		97
88) 1,4-Dichlorobenzene	12.042	146	56626	19.579	ug/l		98
89) n-Butylbenzene	12.329	91	85786	18.548	ug/l		99
90) Hexachloroethane	12.536	117	14339	17.859	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	58637	20.072	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.945	75	8448	18.864	ug/l		91
93) 1,2,4-Trichlorobenzene	13.585	180	29891	18.663	ug/l		96
94) Hexachlorobutadiene	13.725	225	12669	19.666	ug/l		97
95) Naphthalene	13.774	128	122767	19.638	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	33666	19.819	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044399.D
Acq On : 18 Dec 2024 23:22
Operator : JC/MD
Sample : VX1218WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Quant Time: Dec 19 00:56:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

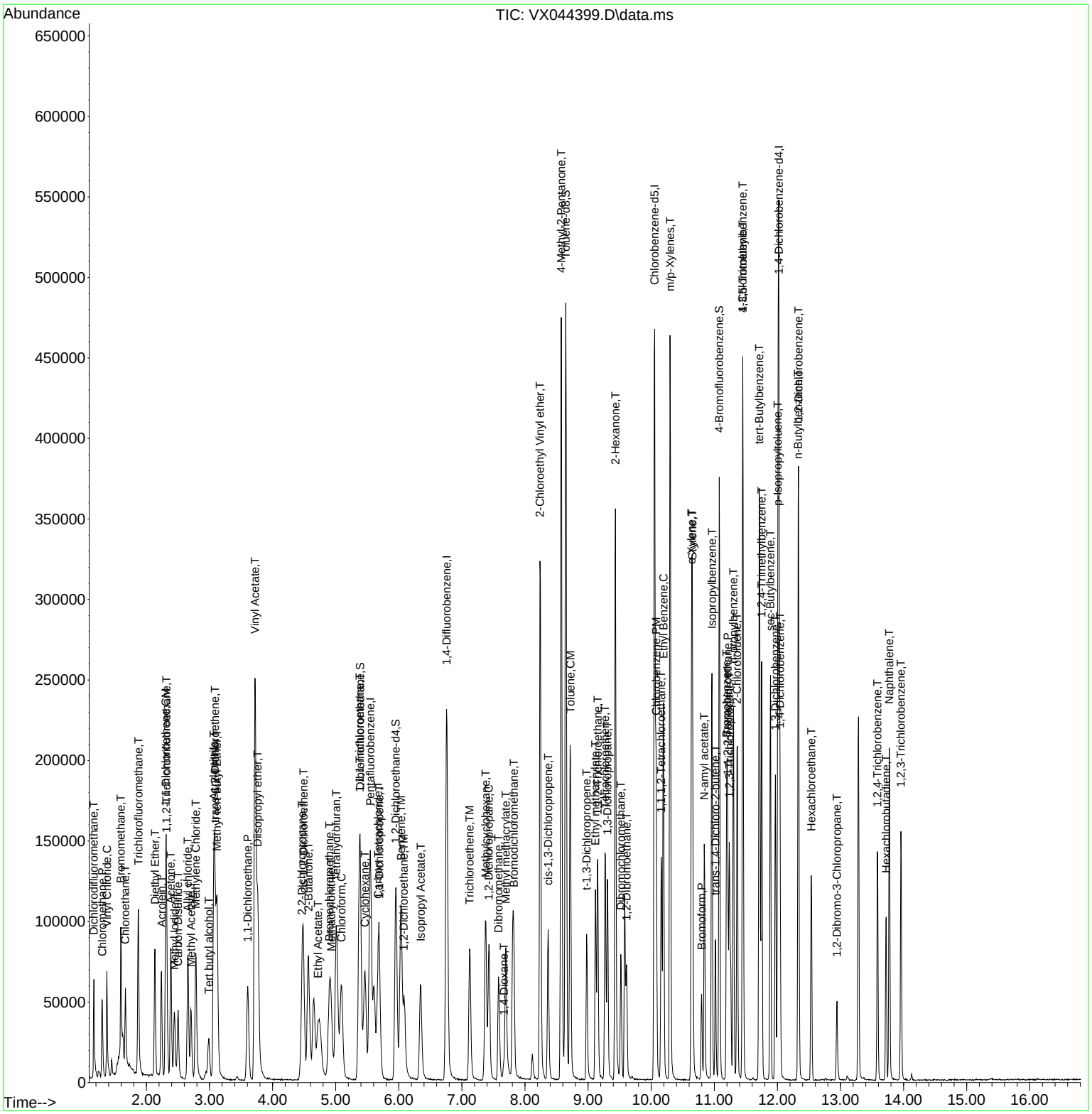
(#) = qualifier out of range (m) = manual integration (+) = signals summed

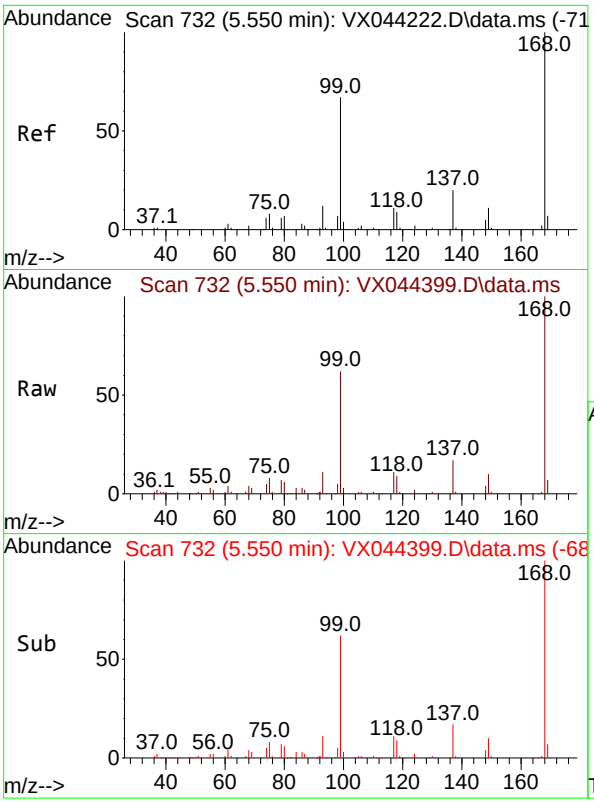
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044399.D
Acq On : 18 Dec 2024 23:22
Operator : JC/MD
Sample : VX1218WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Quant Time: Dec 19 00:56:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



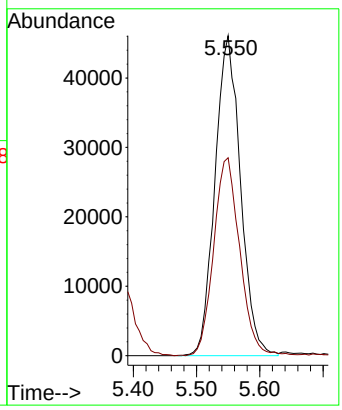


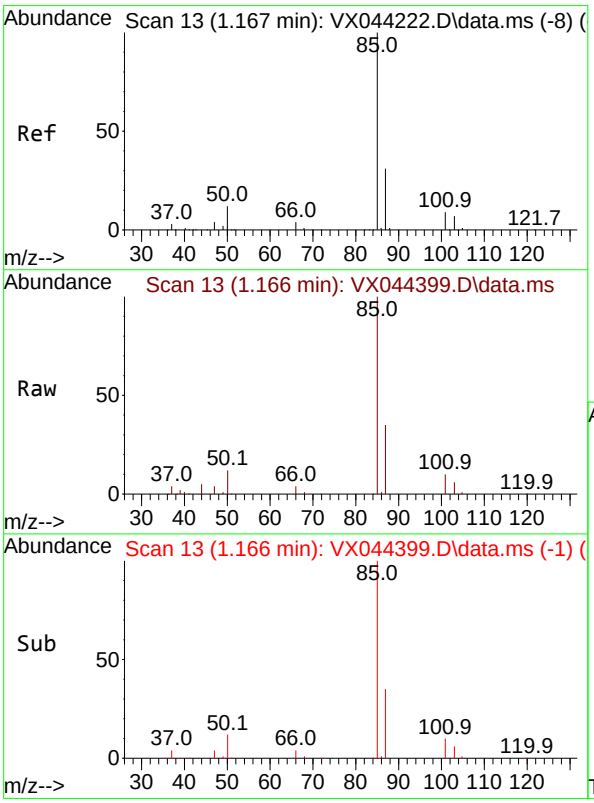
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:168 Resp: 128991

Ion	Ratio	Lower	Upper
168	100		
99	61.7	53.4	80.0

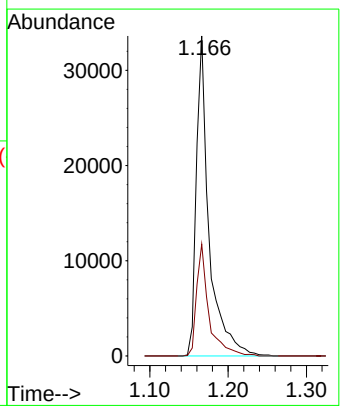


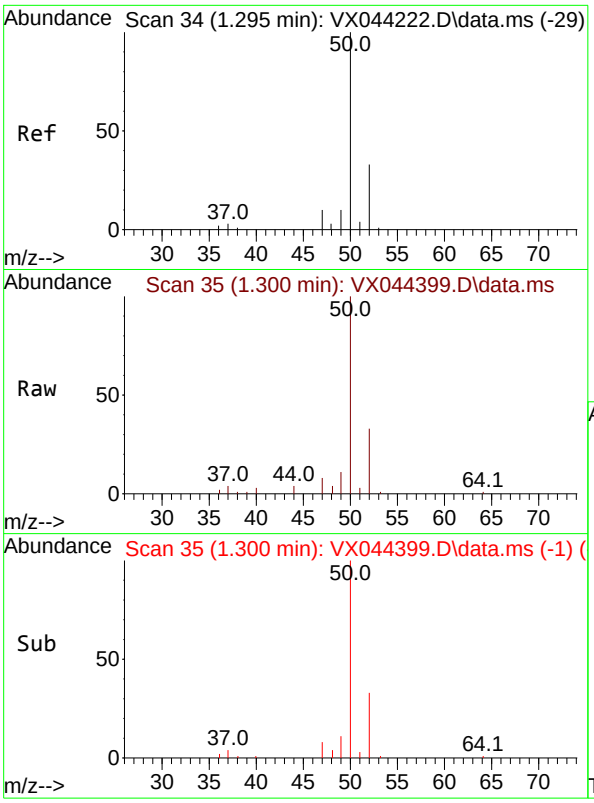


#2
Dichlorodifluoromethane
Concen: 19.023 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 85 Resp: 37942

Ion	Ratio	Lower	Upper
85	100		
87	35.0	15.4	46.4



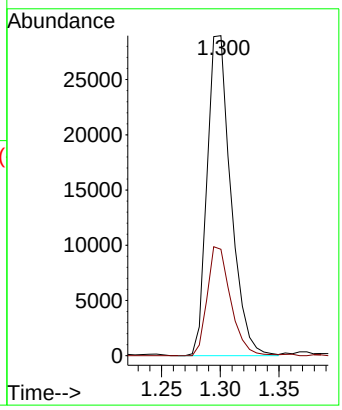


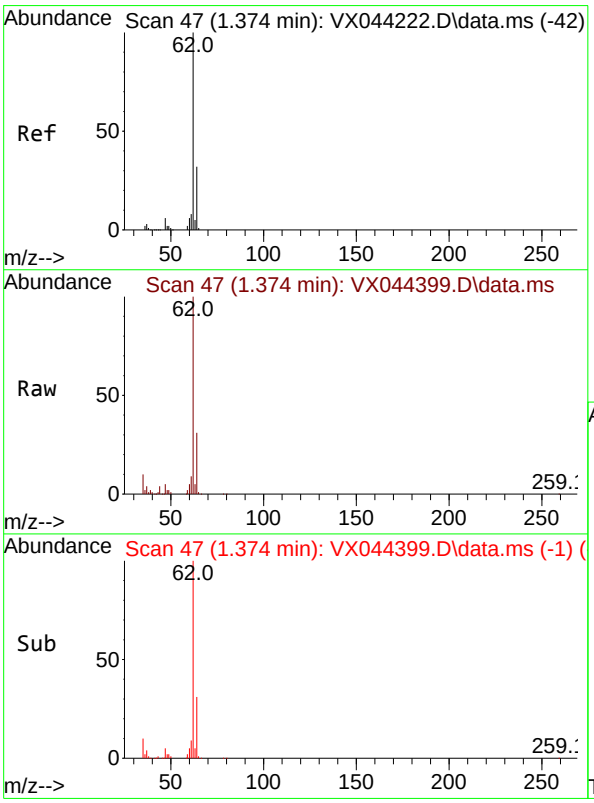
#3
Chloromethane
Concen: 21.366 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 50 Resp: 40751

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.5	39.7

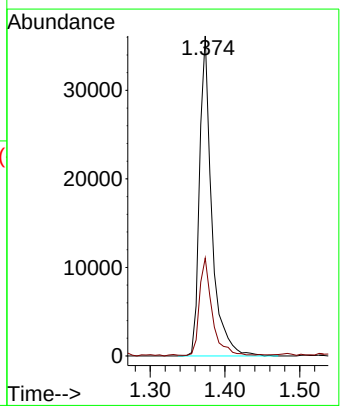


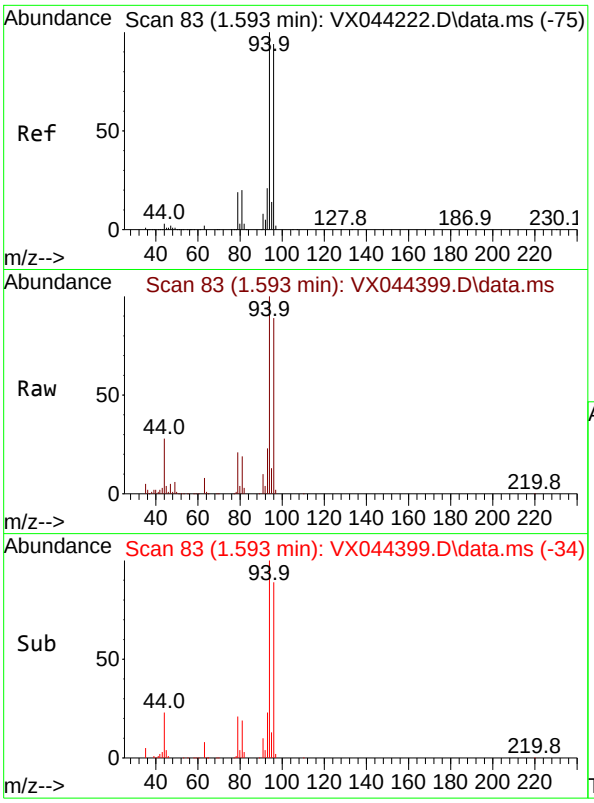


#4
Vinyl Chloride
Concen: 20.579 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 62 Resp: 40892

Ion	Ratio	Lower	Upper
62	100		
64	30.3	25.7	38.5



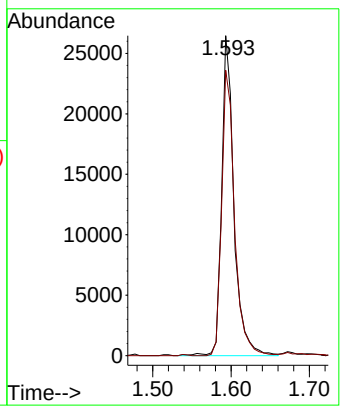


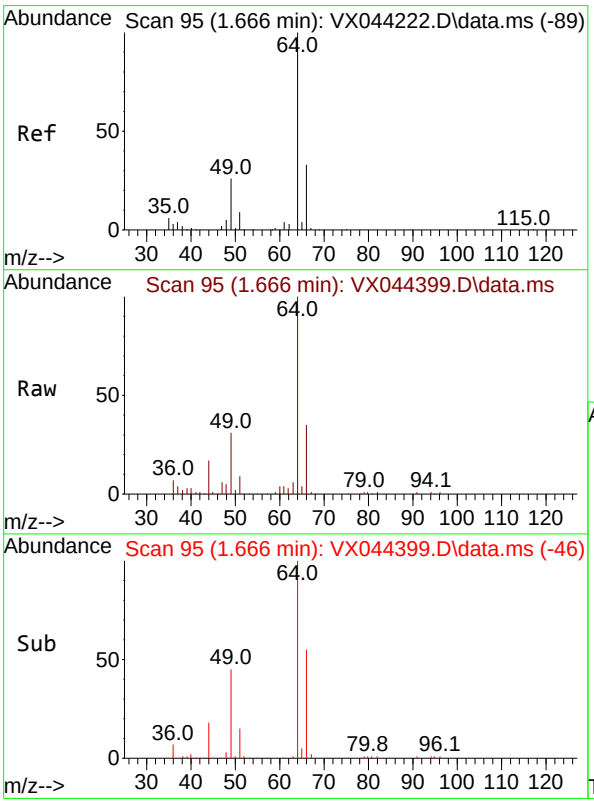
#5
Bromomethane
Concen: 20.511 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 94 Resp: 28914

Ion	Ratio	Lower	Upper
94	100		
96	89.2	74.9	112.3

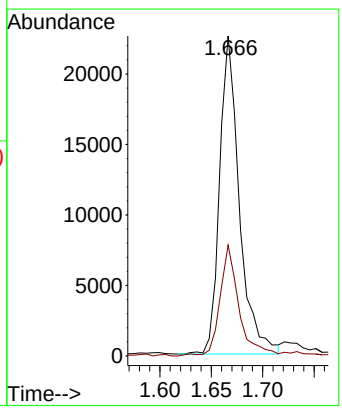


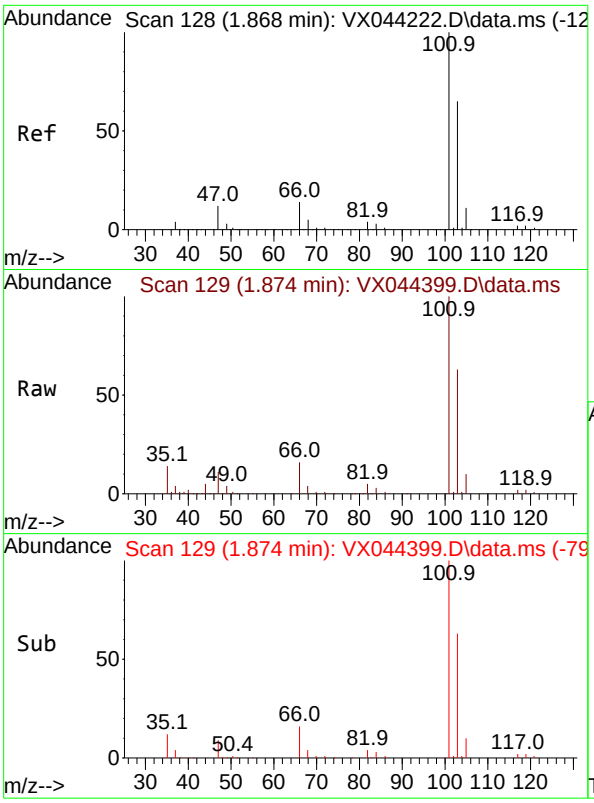


#6
Chloroethane
Concen: 24.328 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 64 Resp: 30101

Ion	Ratio	Lower	Upper
64	100		
66	34.8	26.6	39.8



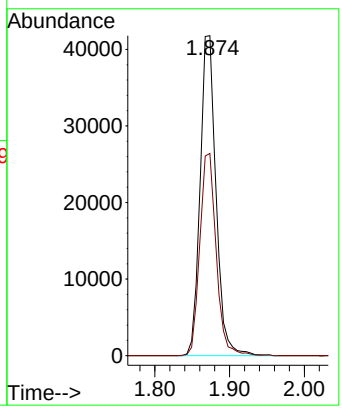


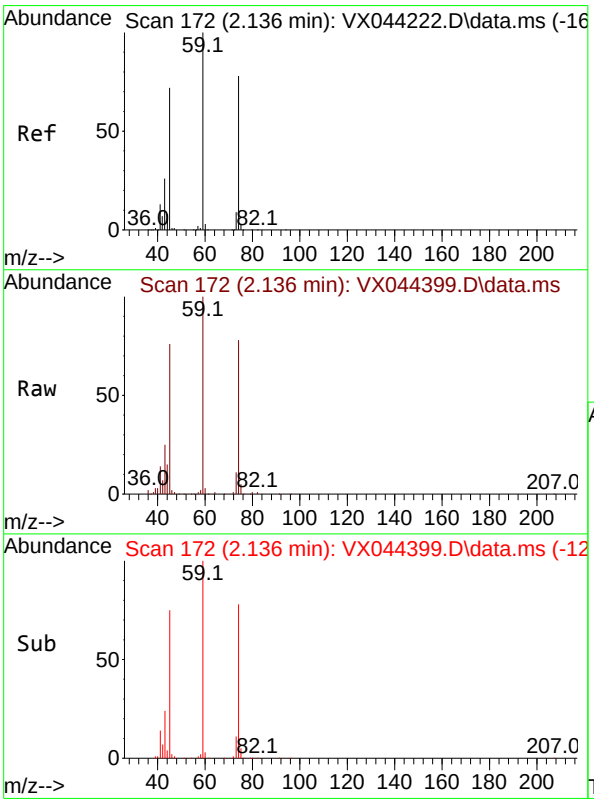
#7
Trichlorofluoromethane
Concen: 15.872 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:101 Resp: 61744

Ion	Ratio	Lower	Upper
101	100		
103	63.2	51.8	77.8

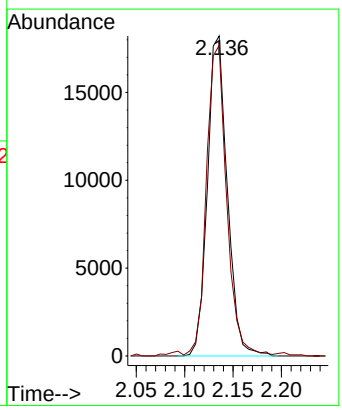


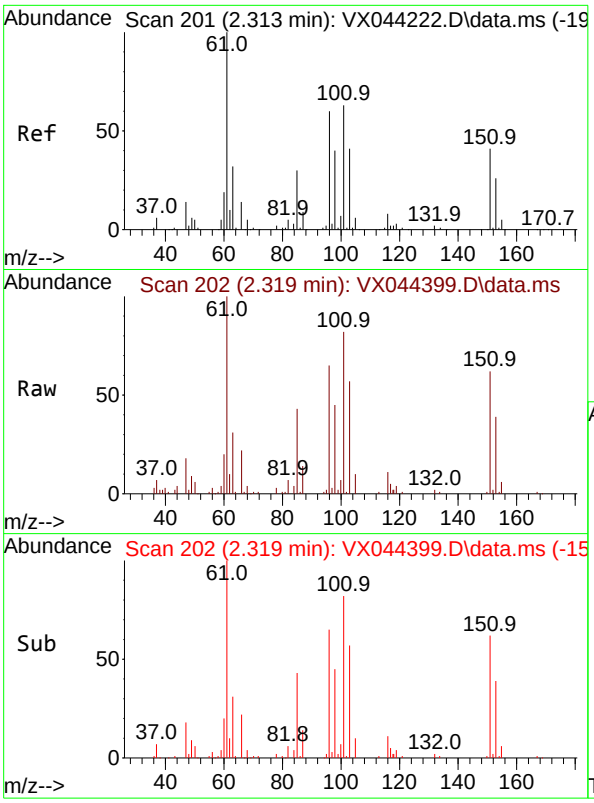


#8
Diethyl Ether
Concen: 19.660 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 74 Resp: 26105

Ion	Ratio	Lower	Upper
74	100		
45	99.4	48.4	145.0



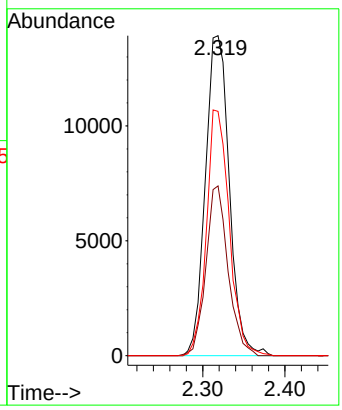


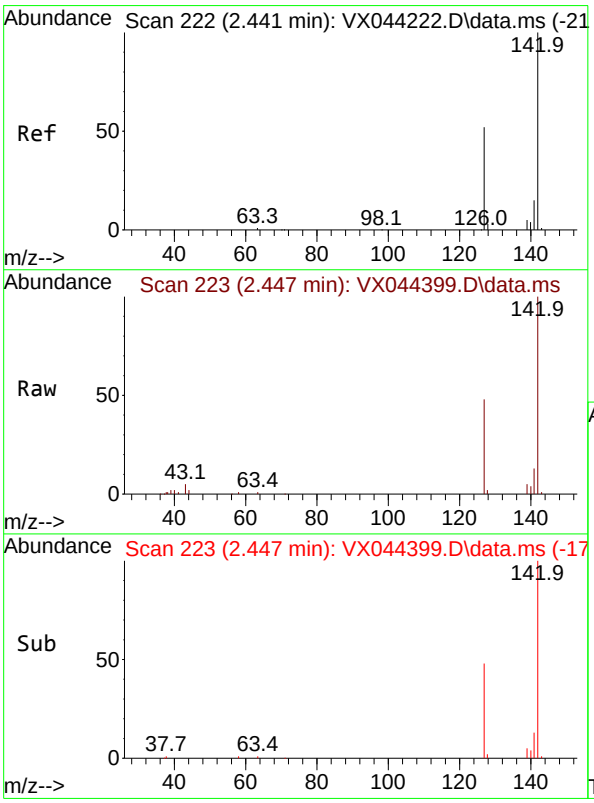
#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.894 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:101 Resp: 28167

Ion	Ratio	Lower	Upper
101	100		
85	49.3	38.5	57.7
151	73.1	55.8	83.6

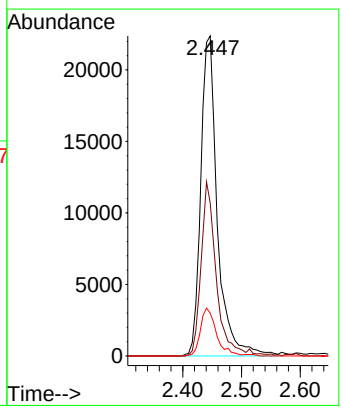


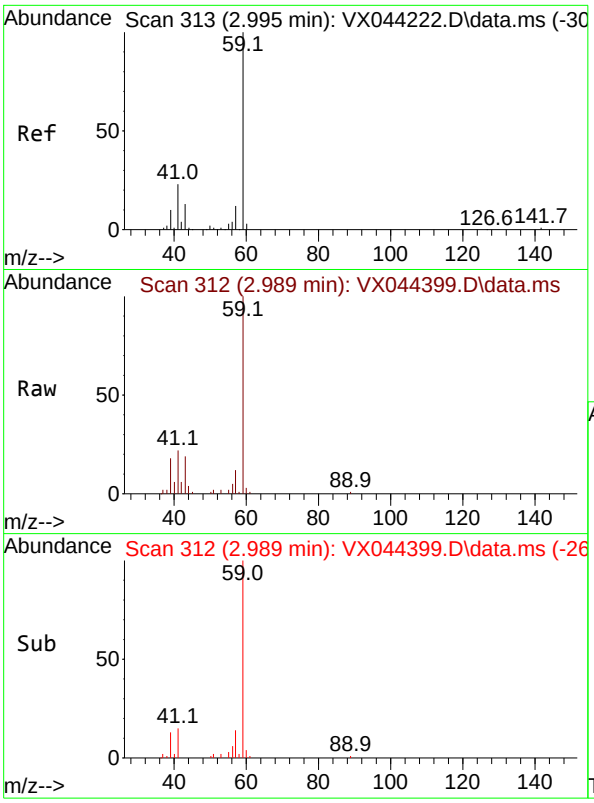


#10
Methyl Iodide
Concen: 21.138 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:142 Resp: 43853

Ion	Ratio	Lower	Upper
142	100		
127	50.1	41.8	62.8
141	14.4	11.5	17.3



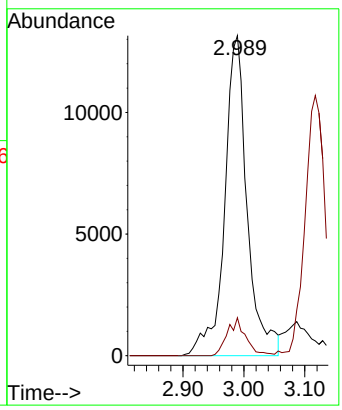


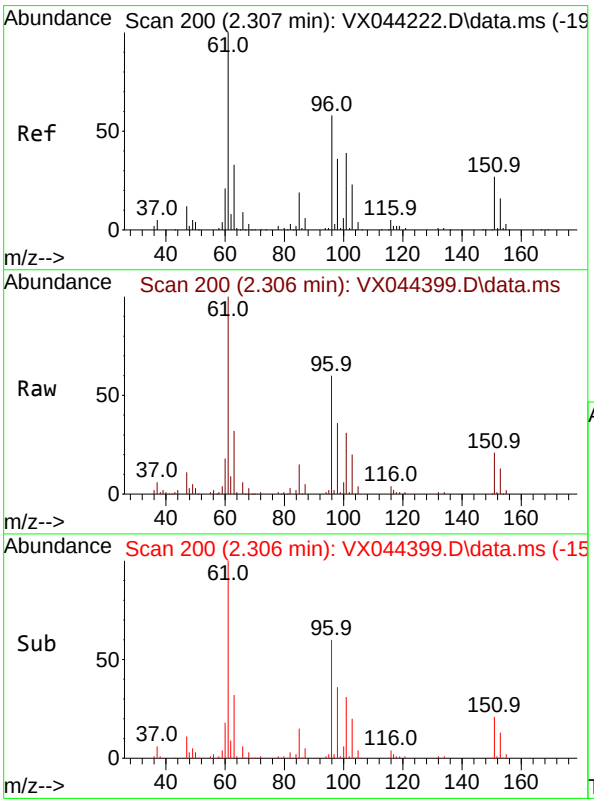
#11
Tert butyl alcohol
Concen: 106.151 ug/l
RT: 2.989 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 59 Resp: 33835

Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.8	13.2

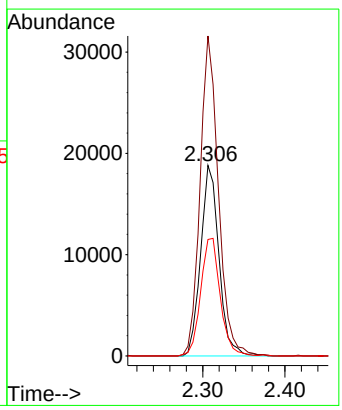


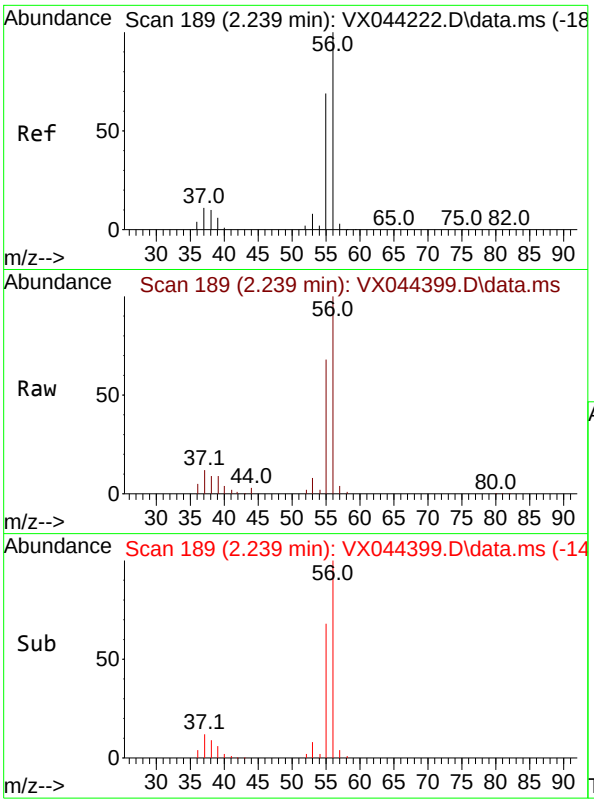


#12
1,1-Dichloroethene
Concen: 20.103 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 96 Resp: 29065

Ion	Ratio	Lower	Upper
96	100		
61	168.0	138.0	207.0
98	61.1	50.0	75.0



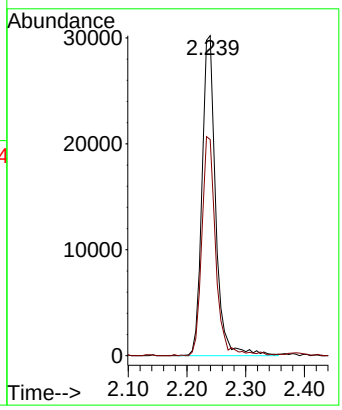


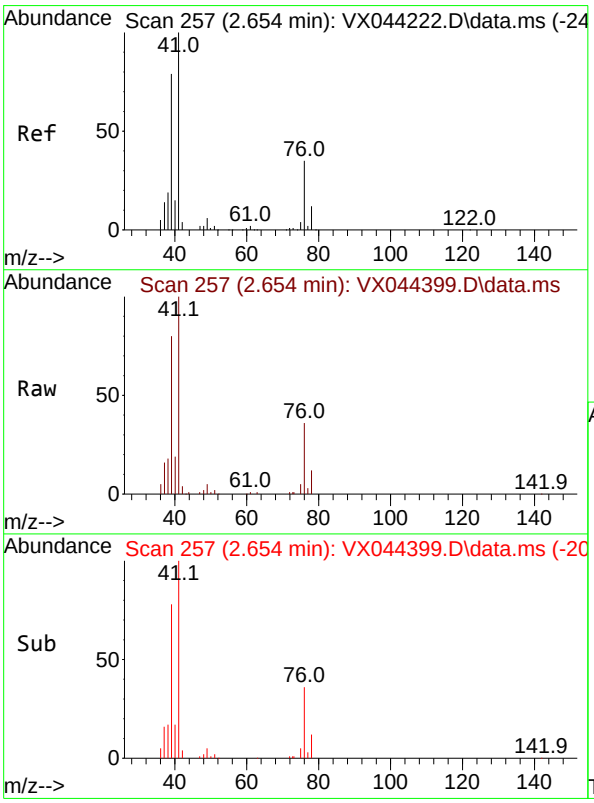
#13
Acrolein
Concen: 105.705 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 56 Resp: 48772

Ion	Ratio	Lower	Upper
56	100		
55	69.1	56.6	84.8

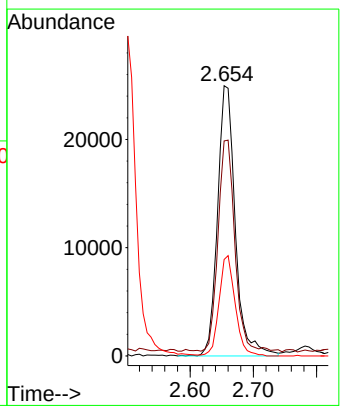


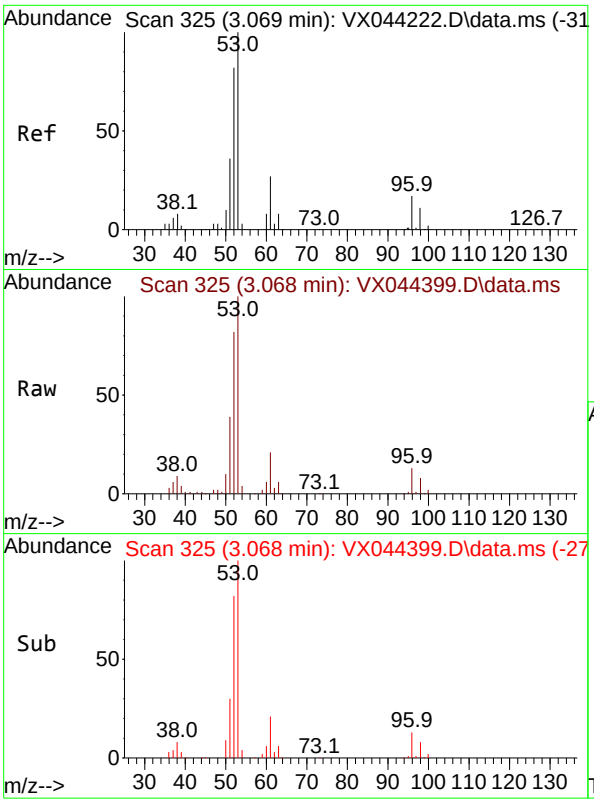


#14
Allyl chloride
Concen: 20.142 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 41 Resp: 48506

Ion	Ratio	Lower	Upper
41	100		
39	74.5	61.9	92.9
76	33.6	27.4	41.2



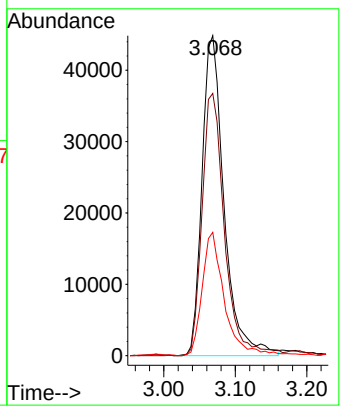


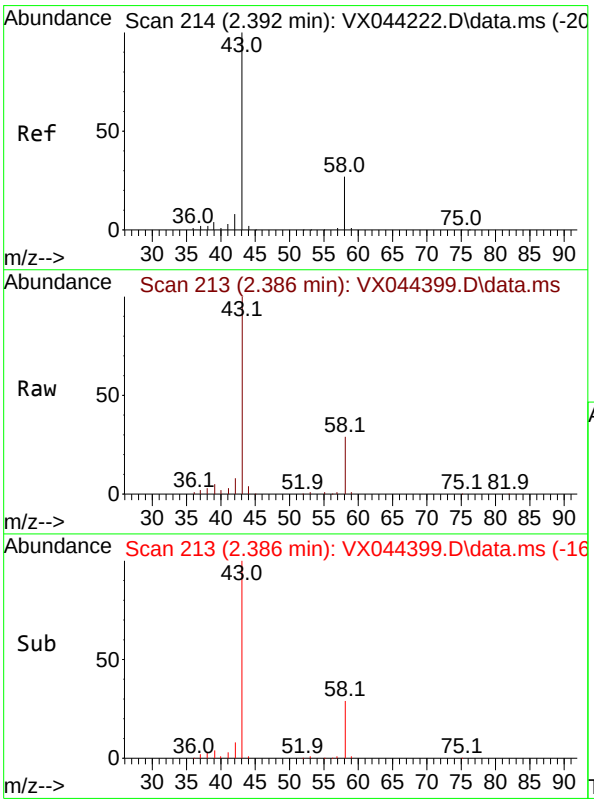
#15
Acrylonitrile
Concen: 108.791 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 53 Resp: 96056

Ion	Ratio	Lower	Upper
53	100		
52	83.2	67.4	101.0
51	39.3	30.3	45.5

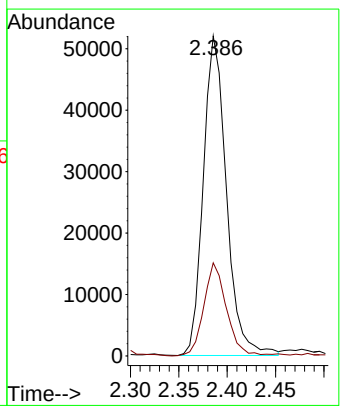


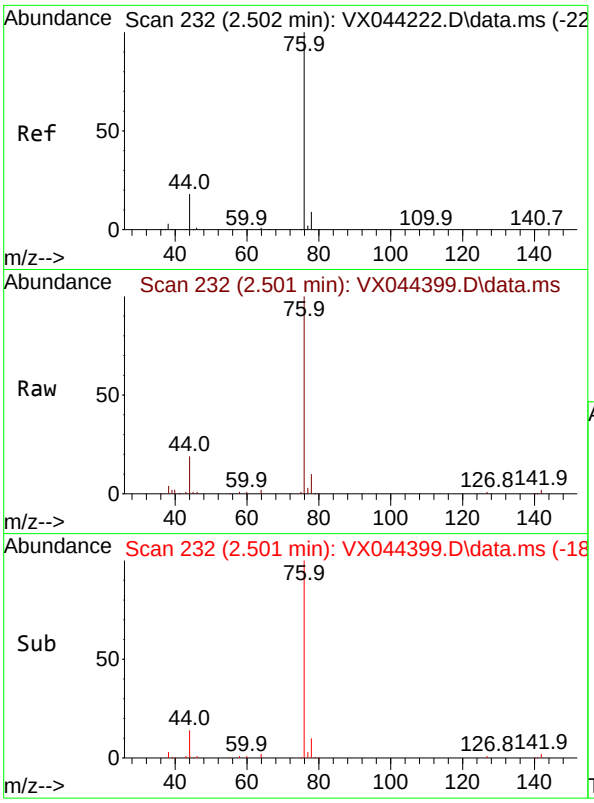


#16
Acetone
Concen: 94.139 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 43 Resp: 86799

Ion	Ratio	Lower	Upper
43	100		
58	29.0	21.6	32.4



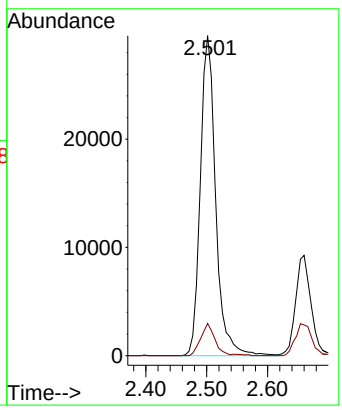


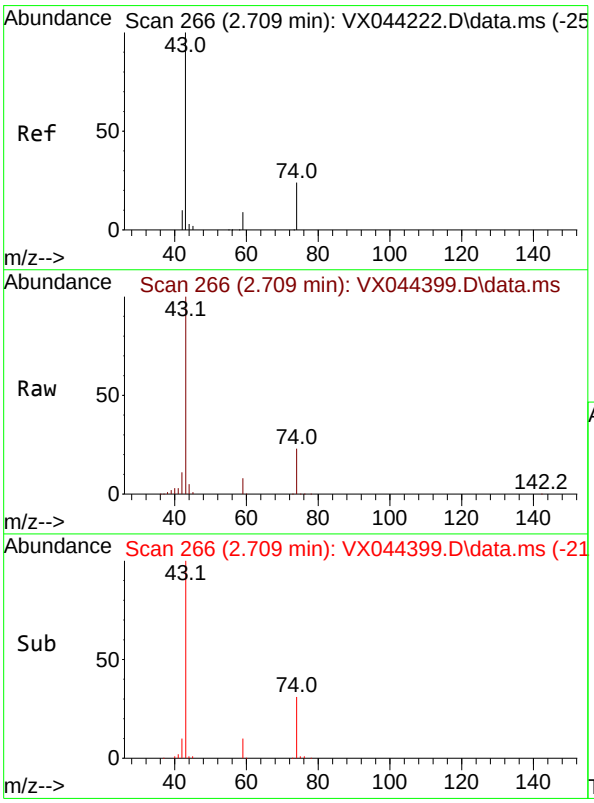
#17
Carbon Disulfide
Concen: 18.822 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 76 Resp: 51728

Ion	Ratio	Lower	Upper
76	100		
78	10.1	7.4	11.0

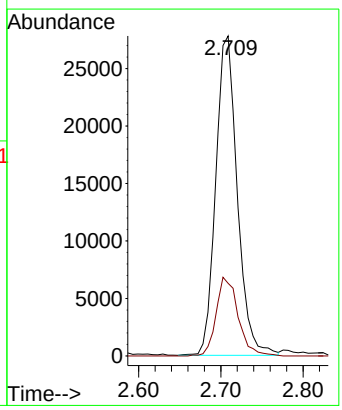


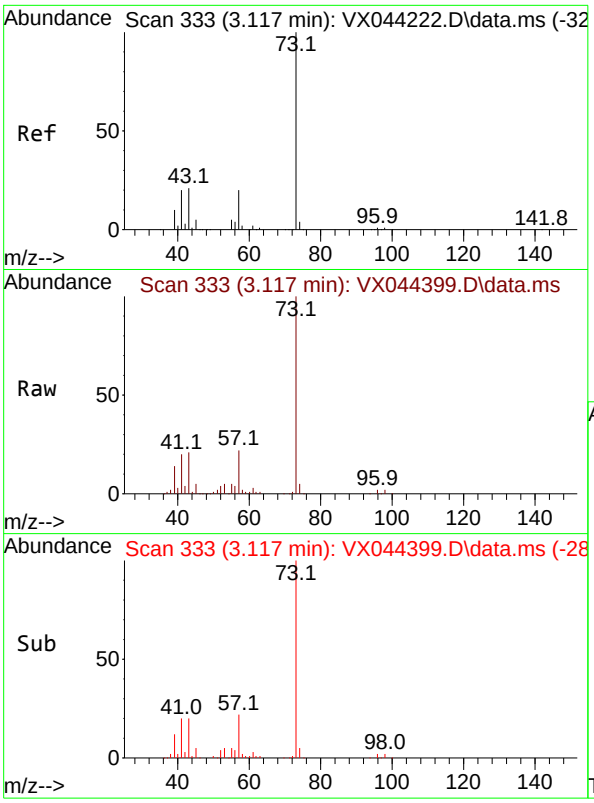


#18
Methyl Acetate
Concen: 21.267 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 43 Resp: 50558

Ion	Ratio	Lower	Upper
43	100		
74	25.2	17.7	26.5



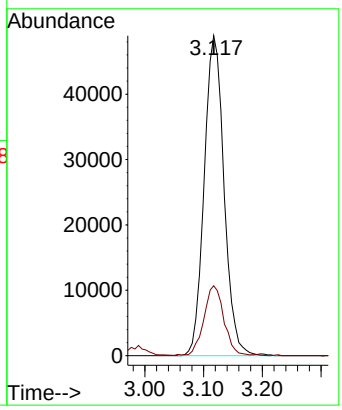


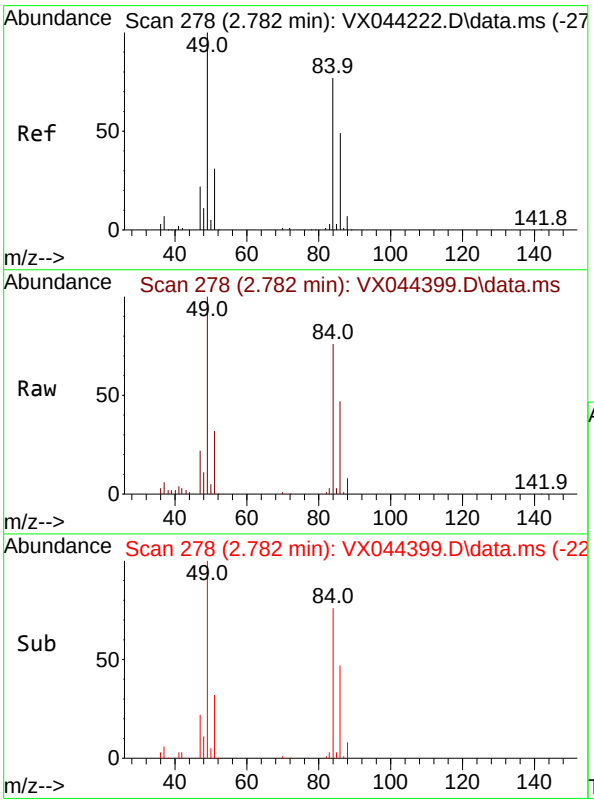
#19
Methyl tert-butyl Ether
Concen: 20.358 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 73 Resp: 114860

Ion	Ratio	Lower	Upper
73	100		
57	21.6	16.2	24.4

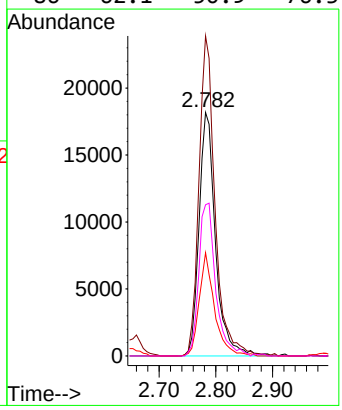


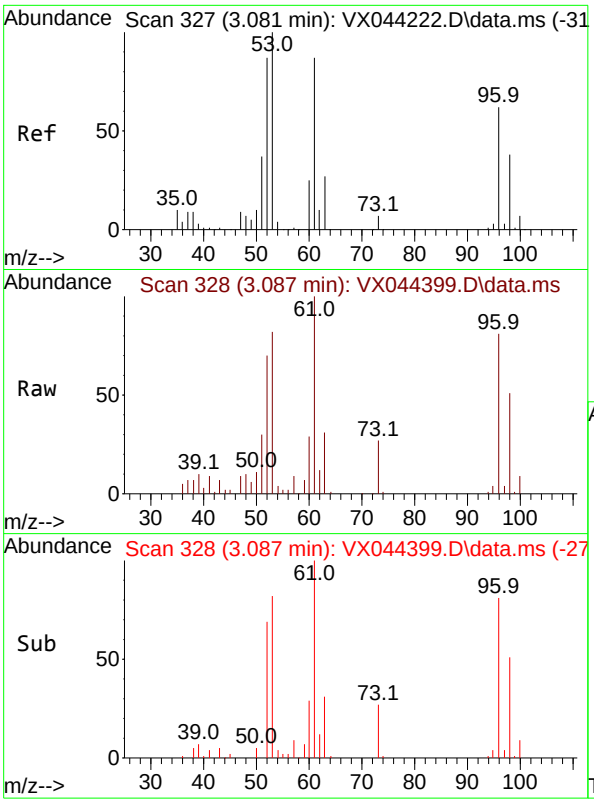


#20
Methylene Chloride
Concen: 21.177 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 84 Resp: 36674

Ion	Ratio	Lower	Upper
84	100		
49	131.4	104.2	156.4
51	42.4	32.2	48.4
86	62.1	50.9	76.3



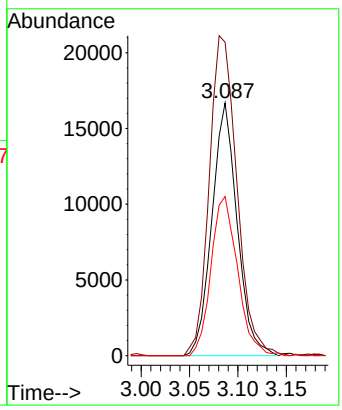


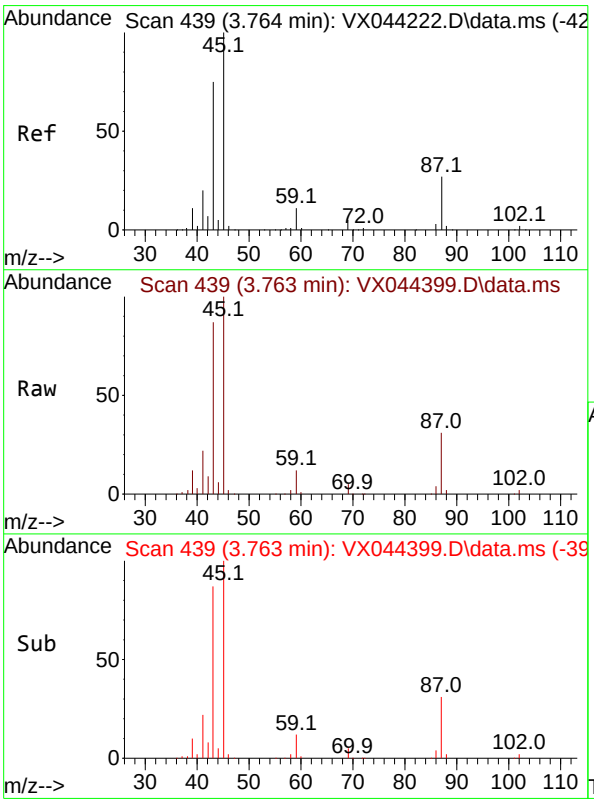
#21
trans-1,2-Dichloroethene
Concen: 19.753 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 96 Resp: 30353

Ion	Ratio	Lower	Upper
96	100		
61	124.0	112.0	168.0
98	63.0	48.8	73.2

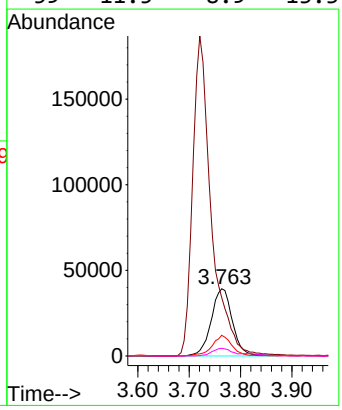


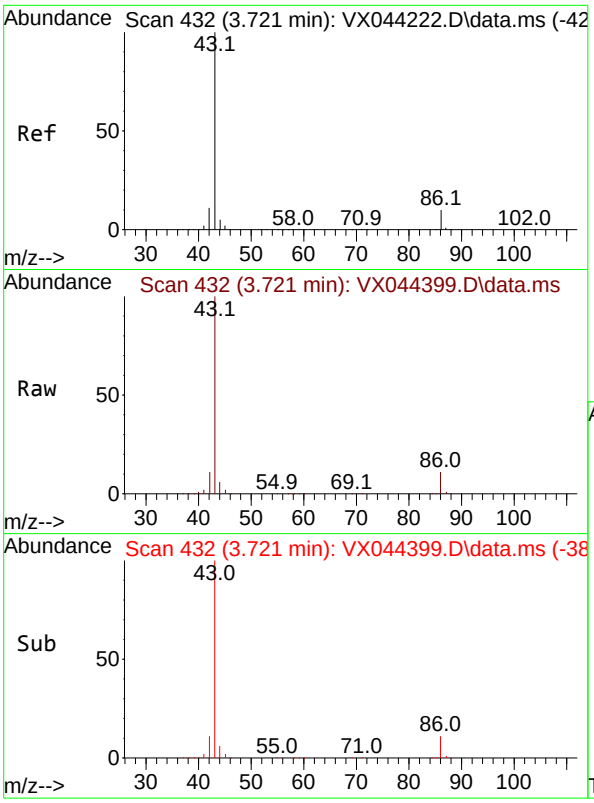


#22
Diisopropyl ether
Concen: 20.757 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 45 Resp: 112563

Ion	Ratio	Lower	Upper
45	100		
43	86.0	60.2	90.2
87	30.8	21.2	31.8
59	11.5	8.9	13.3



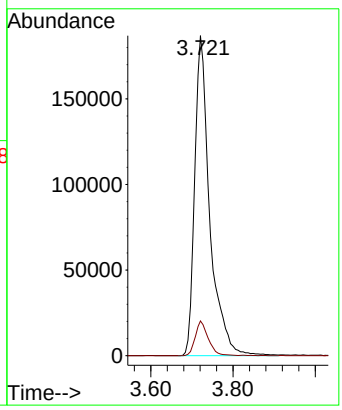


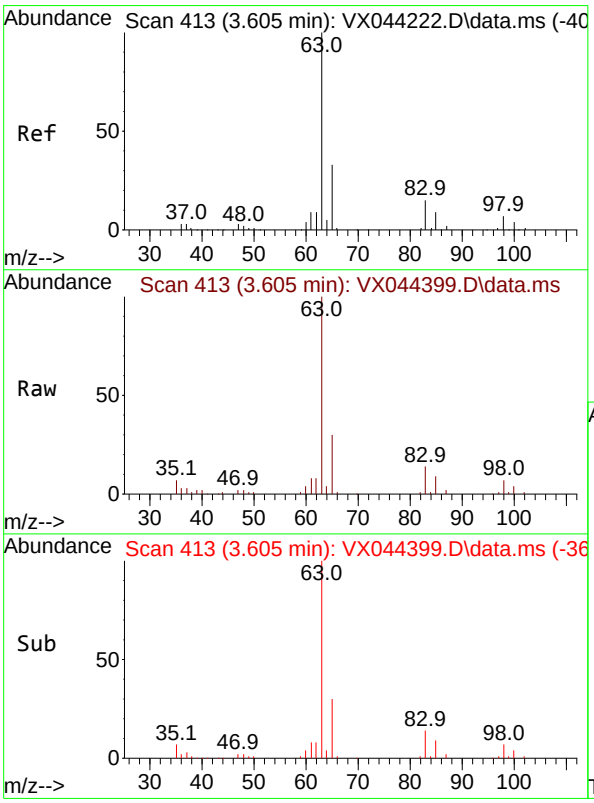
#23
Vinyl Acetate
Concen: 107.800 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 43 Resp: 475270

Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.2	12.2

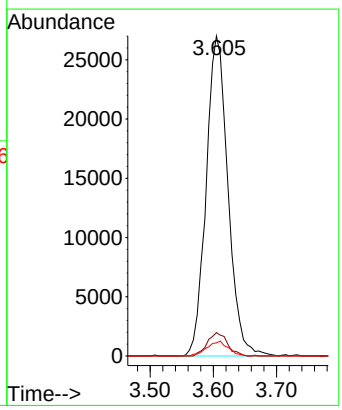


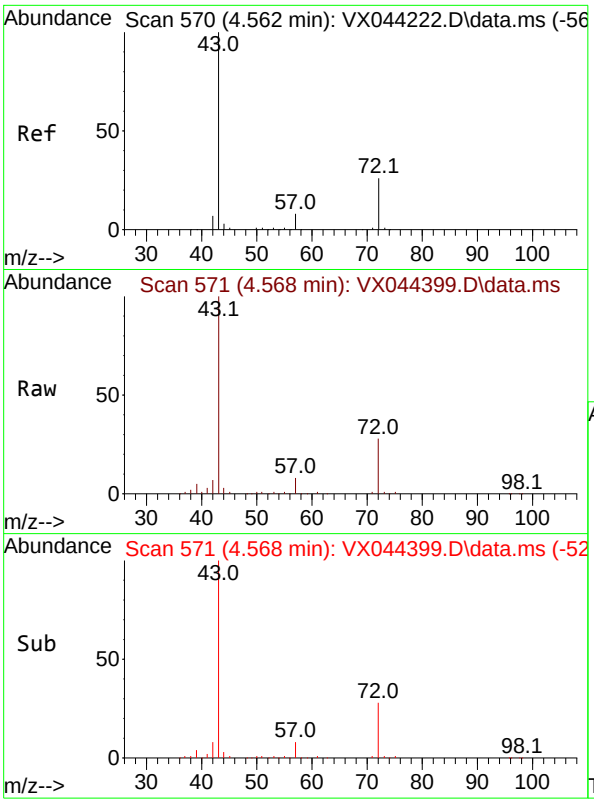


#24
1,1-Dichloroethane
Concen: 21.428 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 63 Resp: 64774

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.6	10.8
100	4.1	2.1	6.3



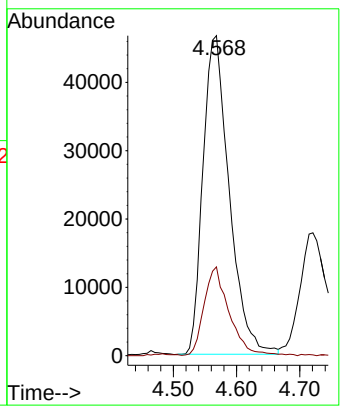


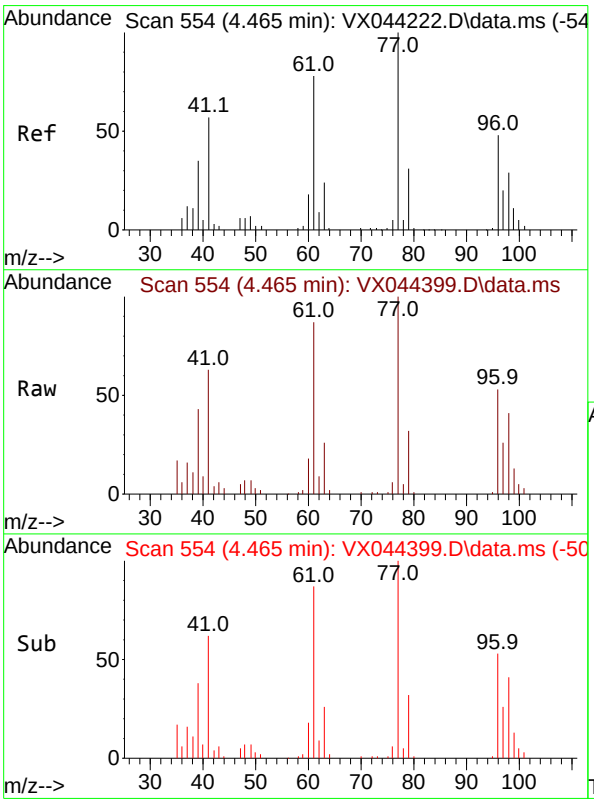
#25
2-Butanone
Concen: 102.837 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 43 Resp: 134799

Ion	Ratio	Lower	Upper
43	100		
72	27.6	20.2	30.4

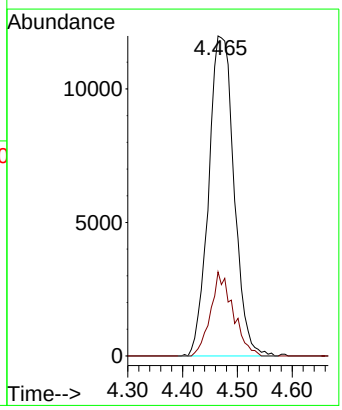


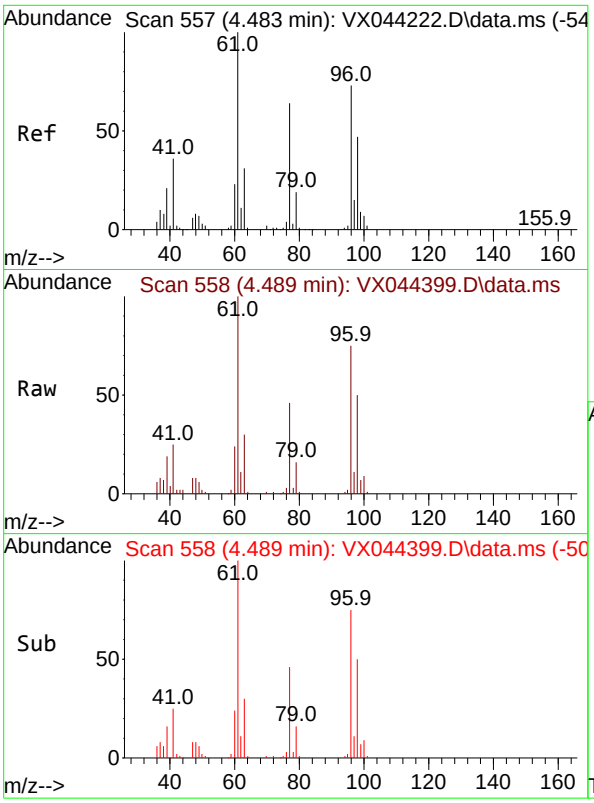


#26
2,2-Dichloropropane
Concen: 15.708 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 77 Resp: 38575

Ion	Ratio	Lower	Upper
77	100		
97	23.3	10.7	32.1



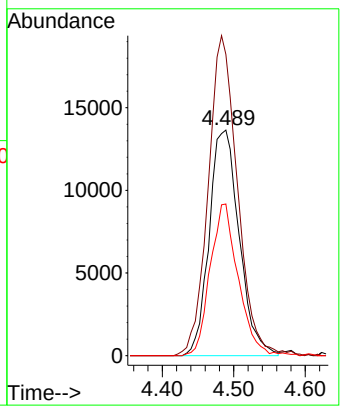


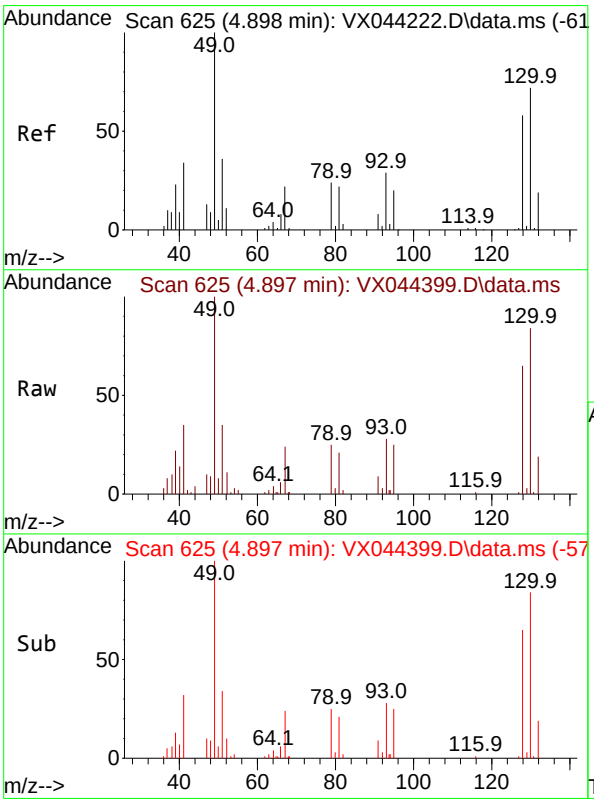
#27
cis-1,2-Dichloroethene
Concen: 20.385 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 96 Resp: 39781

Ion	Ratio	Lower	Upper
96	100		
61	138.6	0.0	299.0
98	63.0	0.0	129.0

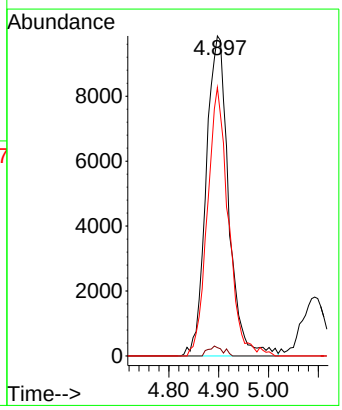


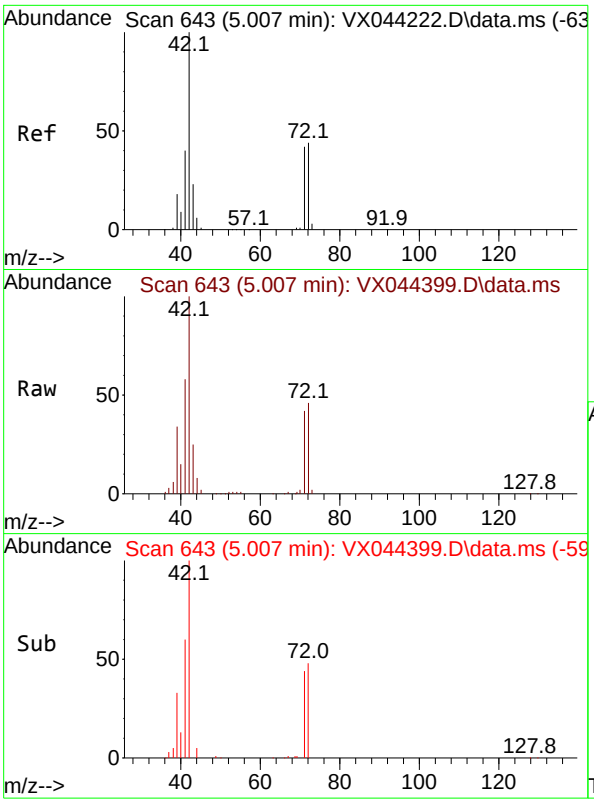


#28
Bromochloromethane
Concen: 20.816 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 49 Resp: 30856

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	77.8	62.1	93.1



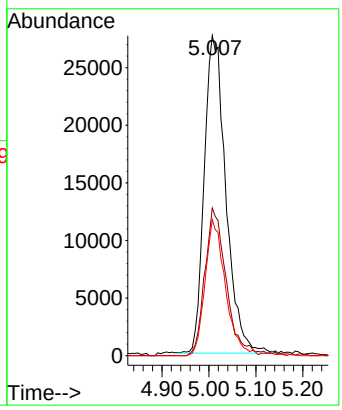


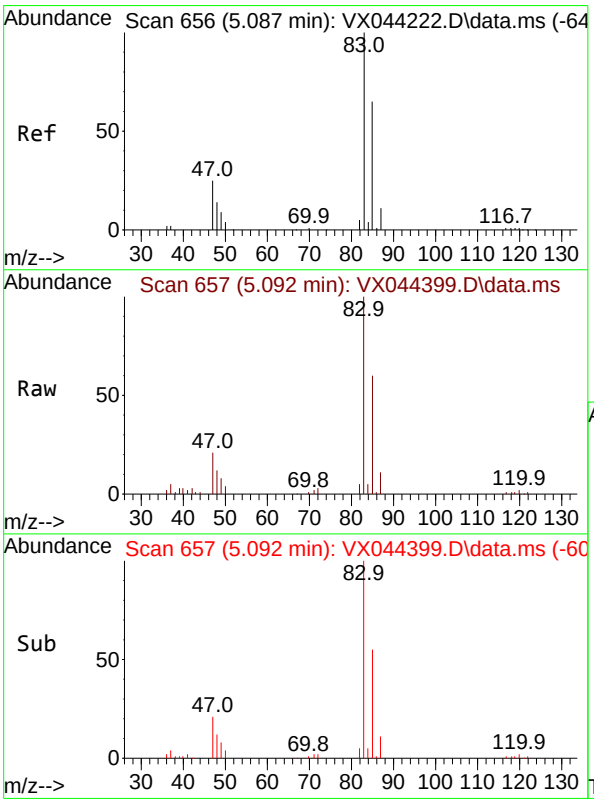
#29
Tetrahydrofuran
Concen: 104.485 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 42 Resp: 87910

Ion	Ratio	Lower	Upper
42	100		
72	46.8	37.0	55.6
71	40.2	33.6	50.4

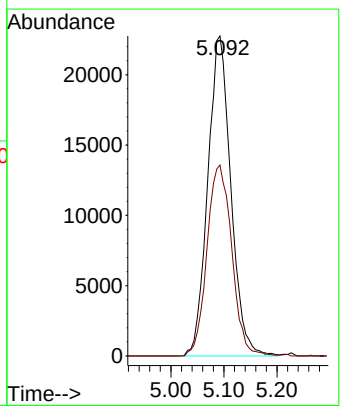


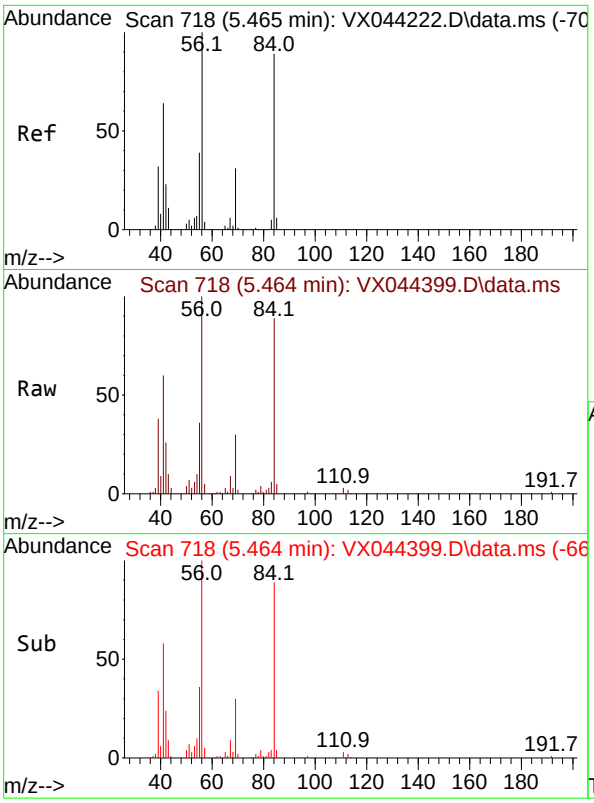


#30
Chloroform
Concen: 20.289 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 83 Resp: 68906

Ion	Ratio	Lower	Upper
83	100		
85	59.7	51.6	77.4



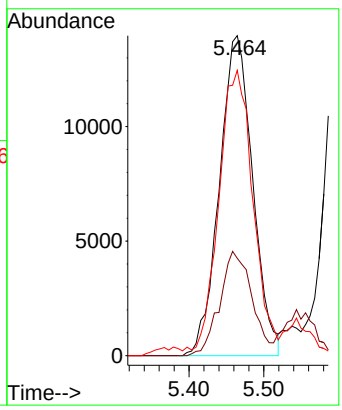


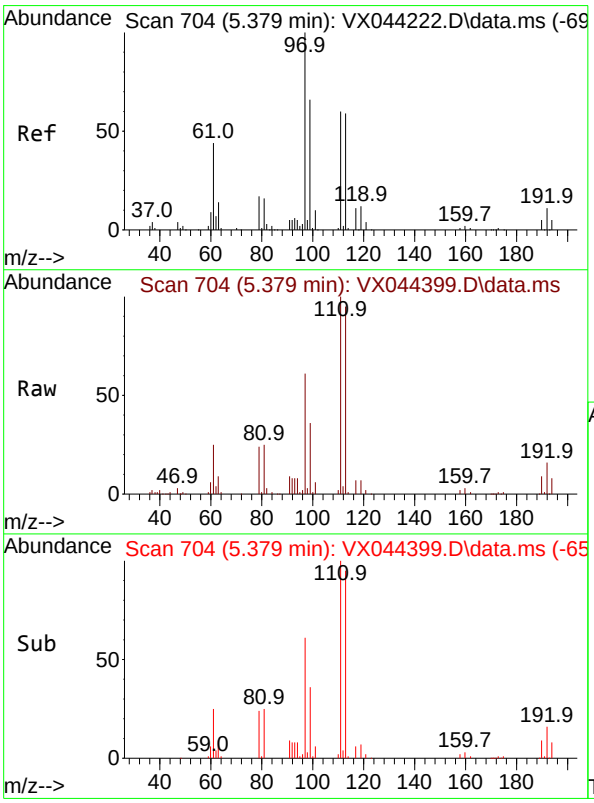
#31
Cyclohexane
Concen: 17.759 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 56 Resp: 43349

Ion	Ratio	Lower	Upper
56	100		
69	30.5	24.7	37.1
84	86.9	71.0	106.6

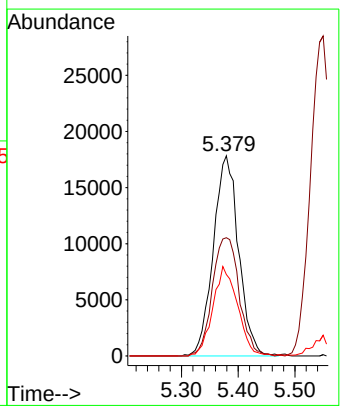


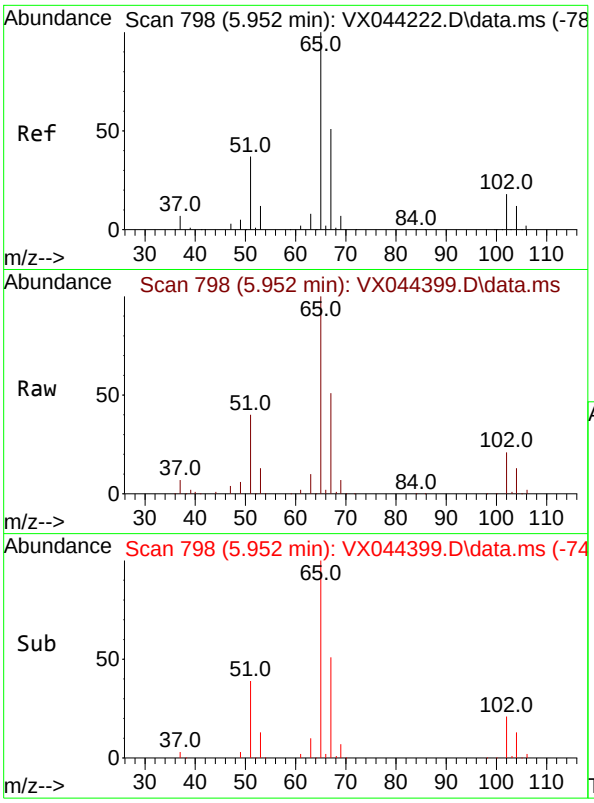


#32
1,1,1-Trichloroethane
Concen: 19.547 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 97 Resp: 55108

Ion	Ratio	Lower	Upper
97	100		
99	62.9	50.8	76.2
61	43.7	35.2	52.8



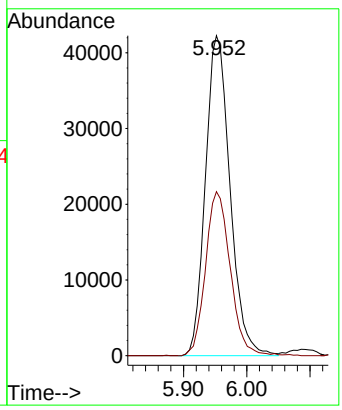


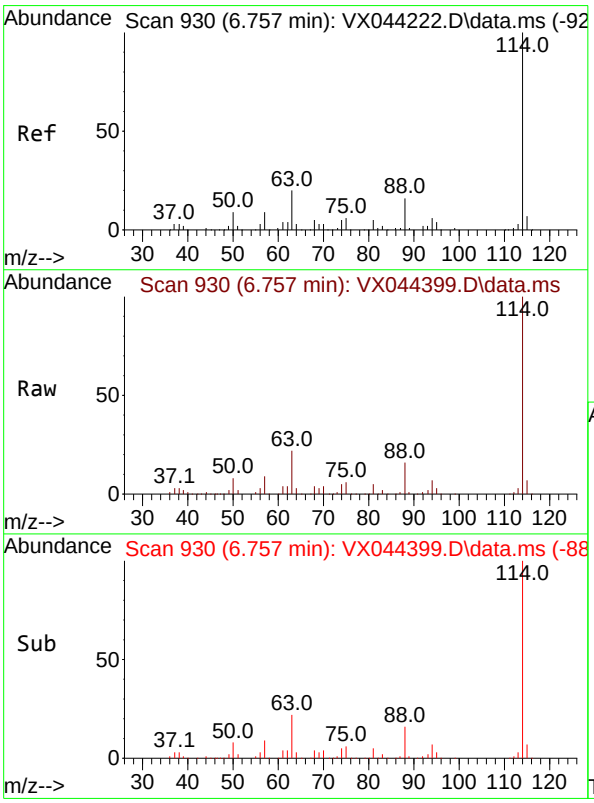
#33
1,2-Dichloroethane-d4
Concen: 50.457 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 65 Resp: 114115

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	101.6

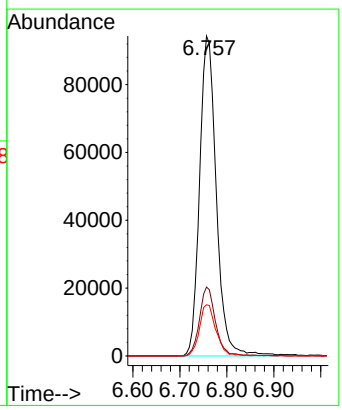


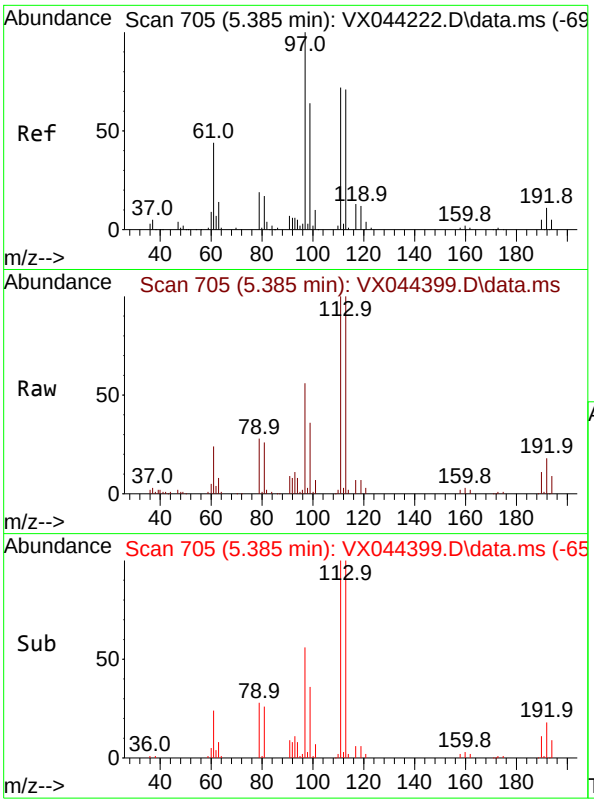


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:114 Resp: 233001

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	40.6
88	16.0	0.0	31.8



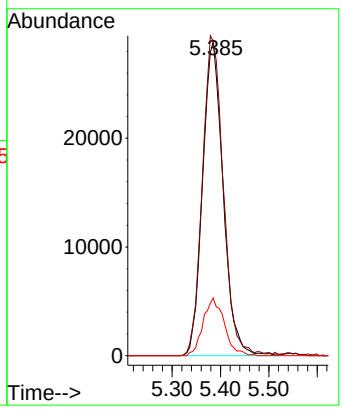


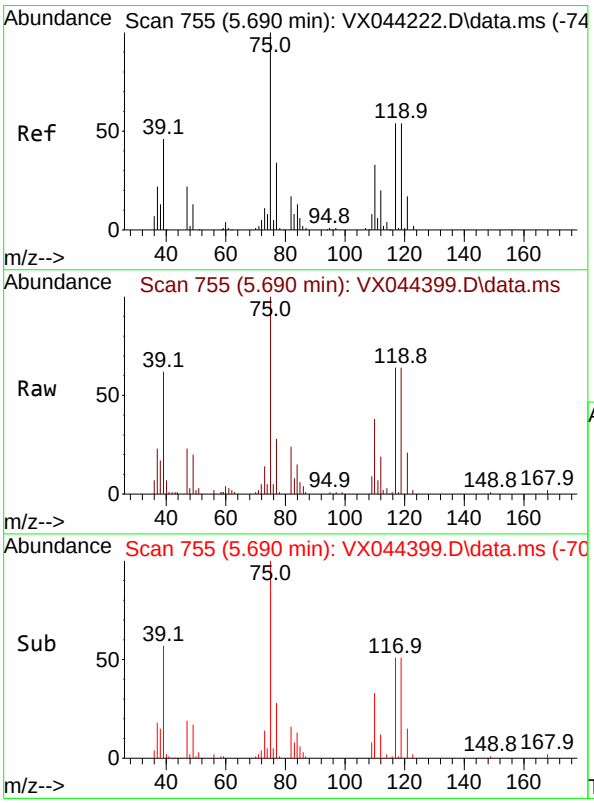
#35
Dibromofluoromethane
Concen: 52.694 ug/l
RT: 5.385 min Scan# 7(
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:113 Resp: 85034

Ion	Ratio	Lower	Upper
113	100		
111	104.3	80.4	120.6
192	19.0	13.3	19.9

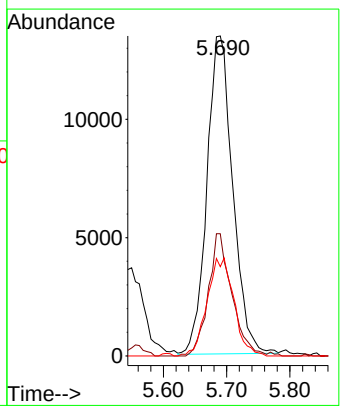


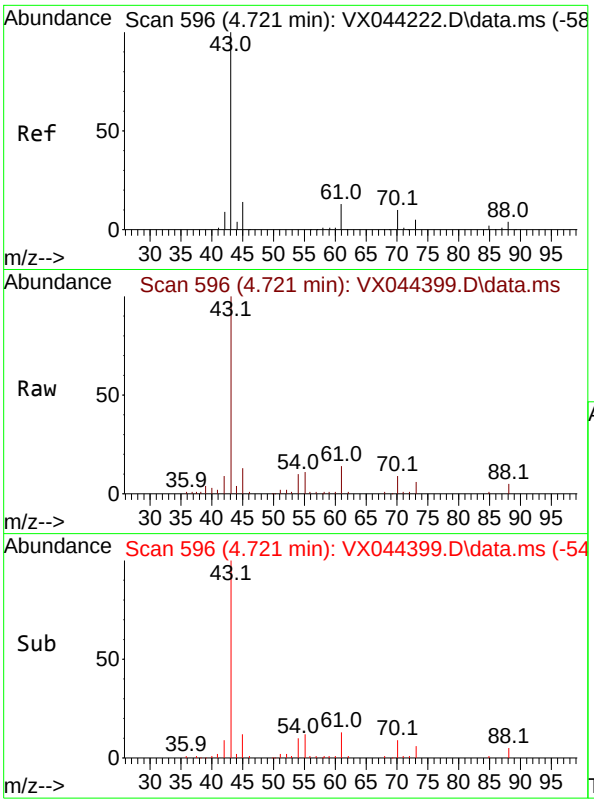


#36
1,1-Dichloropropene
Concen: 18.259 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 75 Resp: 38087

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.3	51.7
77	32.0	25.4	38.0



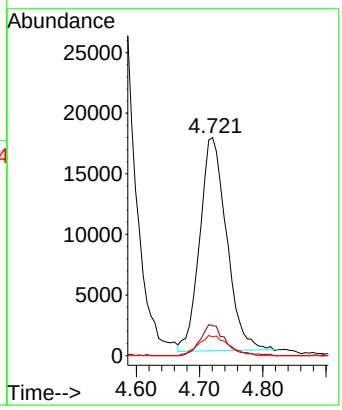


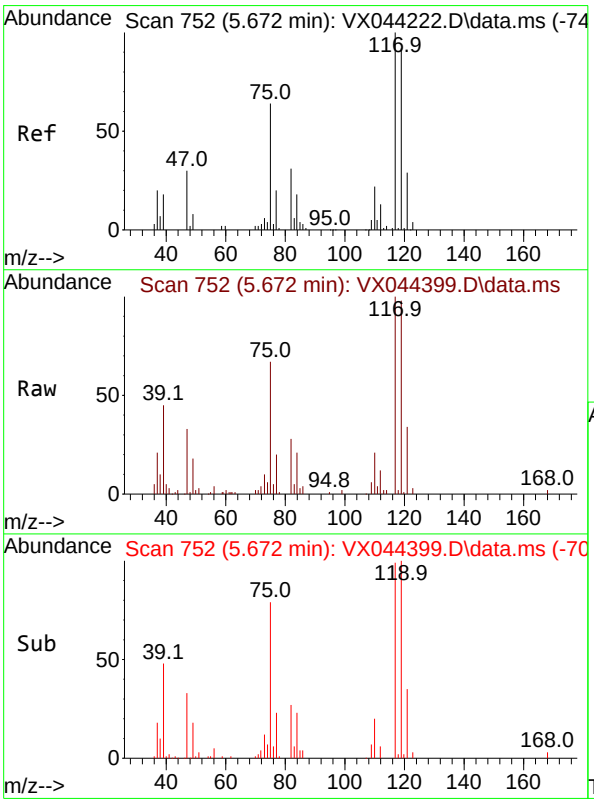
#37
Ethyl Acetate
Concen: 20.100 ug/l
RT: 4.721 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 43 Resp: 51828

Ion	Ratio	Lower	Upper
43	100		
61	13.8	9.8	14.8
70	10.5	7.7	11.5

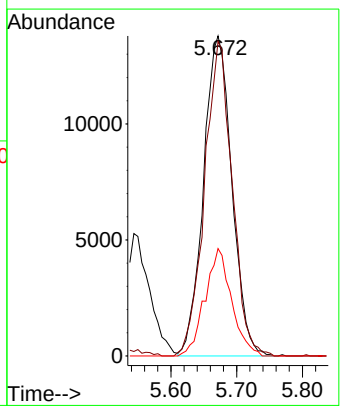


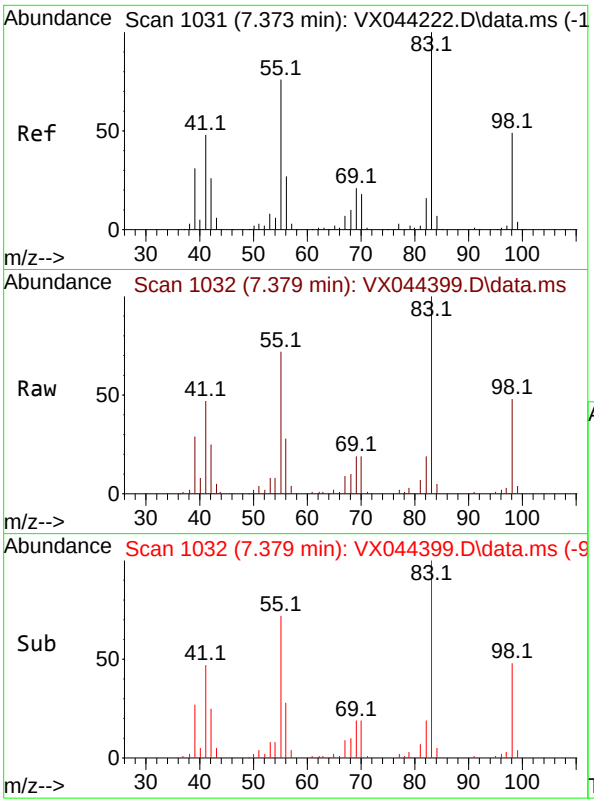


#38
Carbon Tetrachloride
Concen: 18.435 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:117 Resp: 41400

Ion	Ratio	Lower	Upper
117	100		
119	98.3	74.2	111.4
121	33.6	23.0	34.6



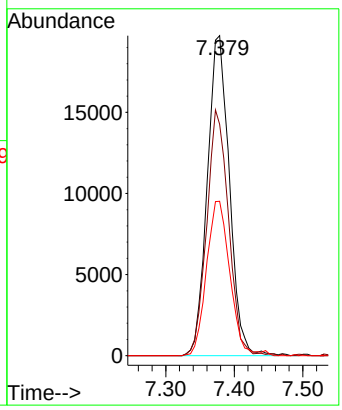


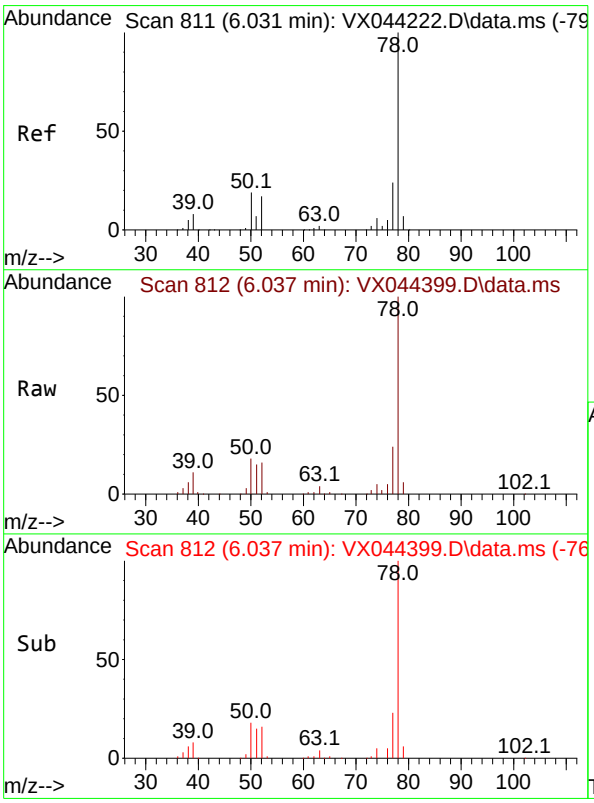
#39
Methylcyclohexane
Concen: 17.665 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 83 Resp: 44052

Ion	Ratio	Lower	Upper
83	100		
55	72.3	60.7	91.1
98	48.2	38.9	58.3

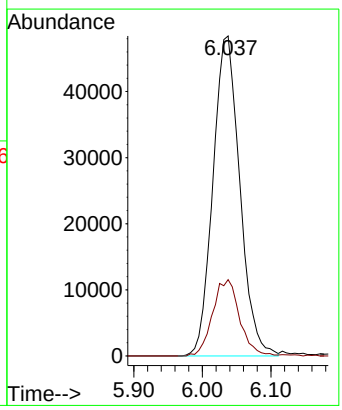


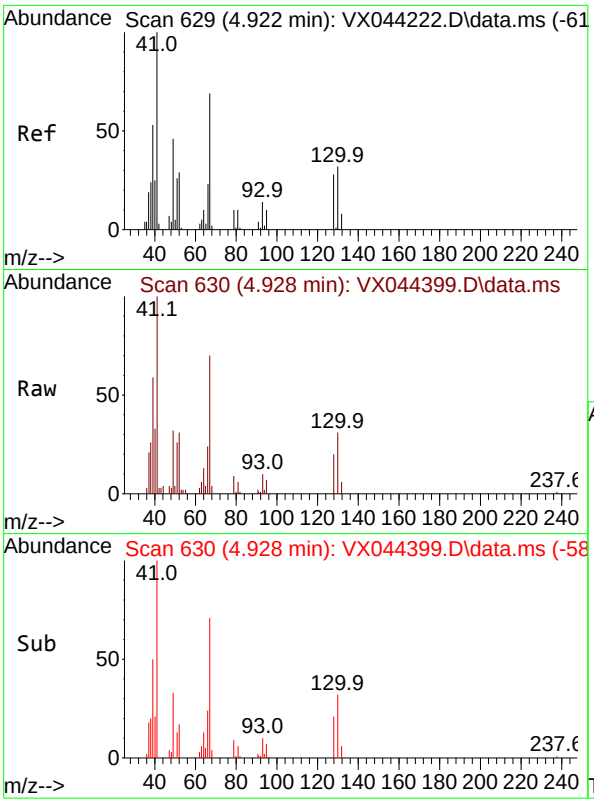


#40
Benzene
Concen: 20.769 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 78 Resp: 131536

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.3	28.9



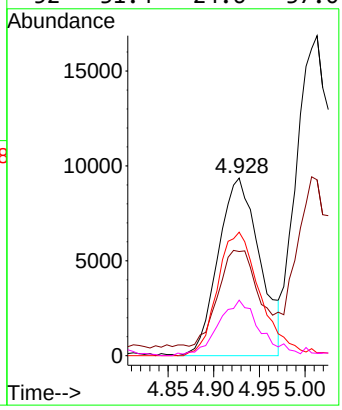


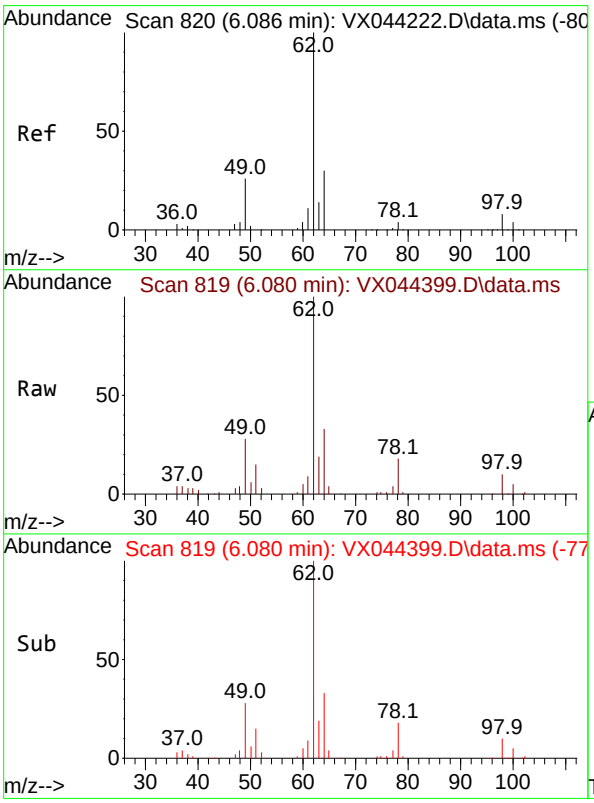
#41
Methacrylonitrile
Concen: 21.629 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 41 Resp: 29615

Ion	Ratio	Lower	Upper
41	100		
39	54.6	44.2	66.4
67	71.9	57.2	85.8
52	31.4	24.6	37.0

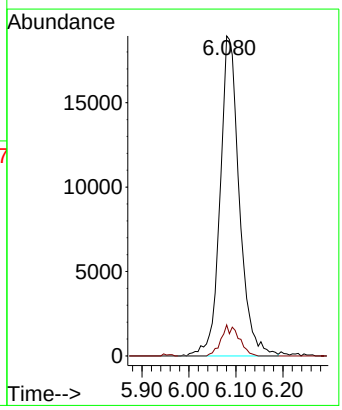


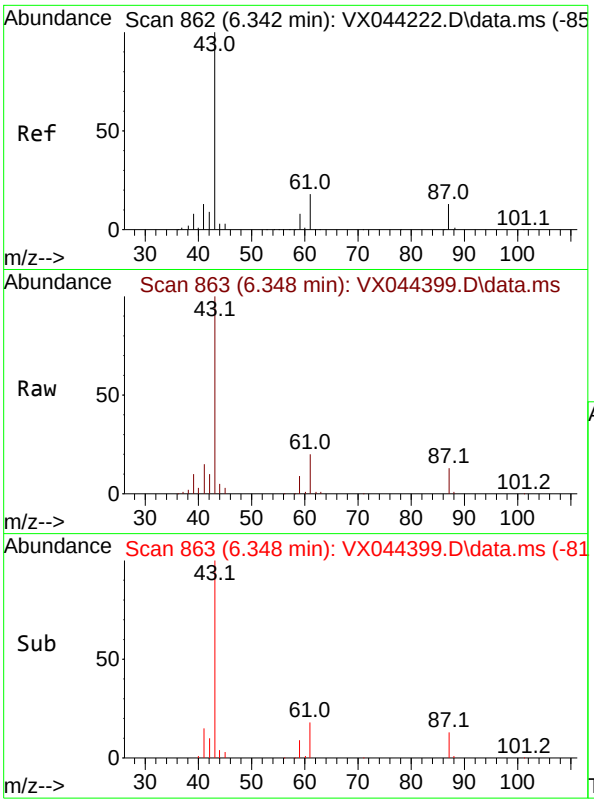


#42
1,2-Dichloroethane
Concen: 20.639 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 62 Resp: 53845

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	15.8



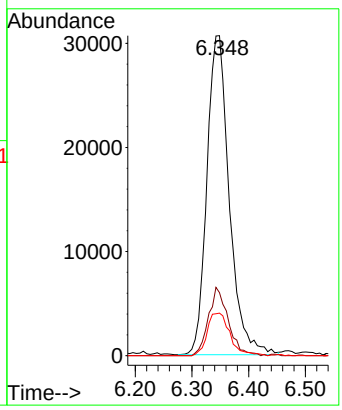


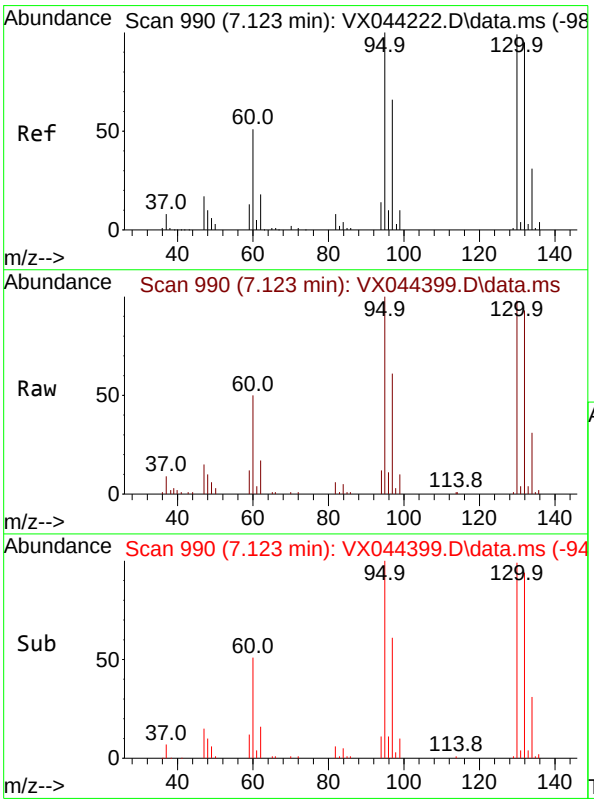
#43
Isopropyl Acetate
Concen: 20.849 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 43 Resp: 84024

Ion	Ratio	Lower	Upper
43	100		
61	19.0	14.2	21.2
87	13.6	10.2	15.2

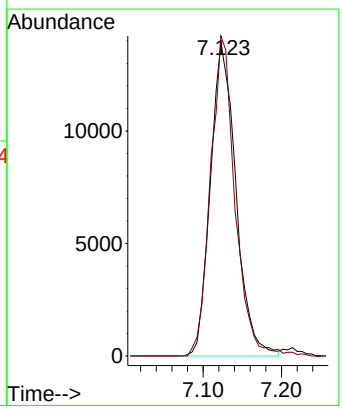


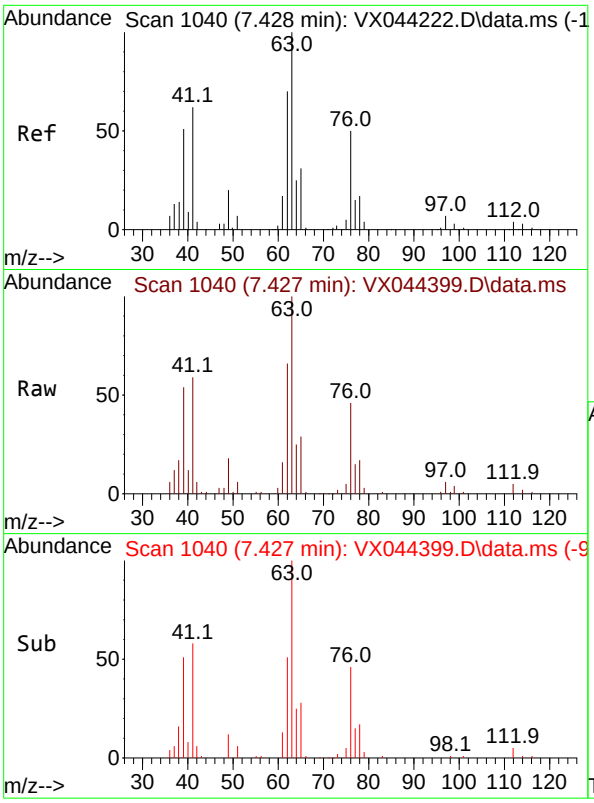


#44
Trichloroethene
Concen: 19.941 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:130 Resp: 31494

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	201.4



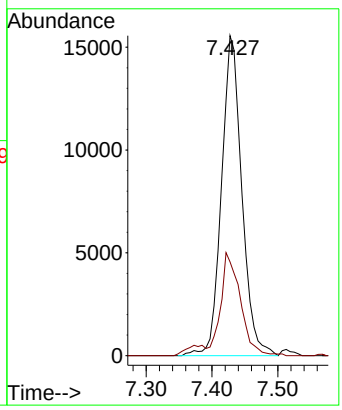


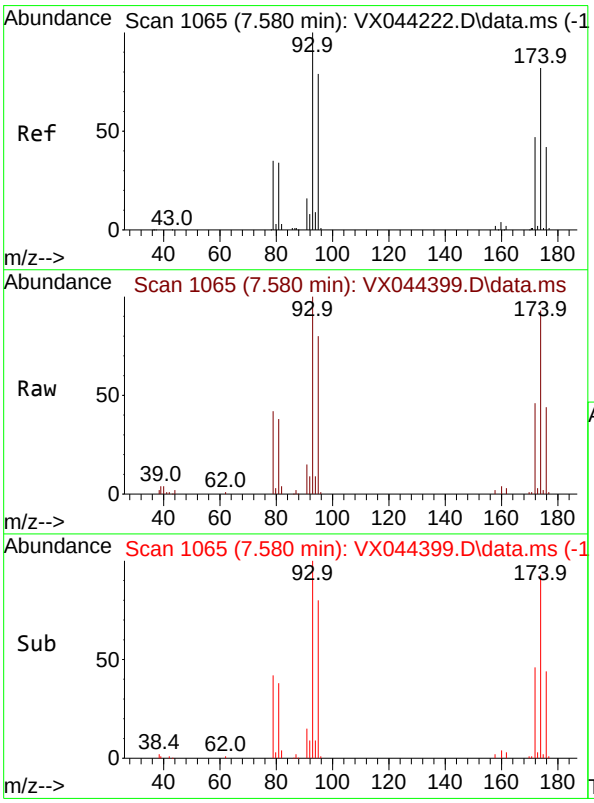
#45
1,2-Dichloropropane
Concen: 20.711 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 63 Resp: 33512

Ion	Ratio	Lower	Upper
63	100		
65	28.8	24.6	37.0

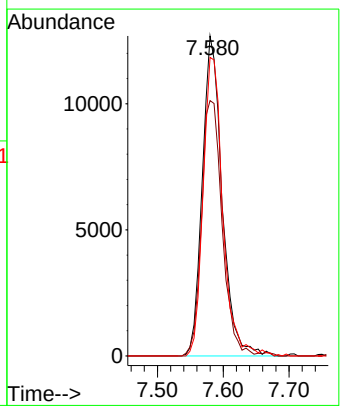


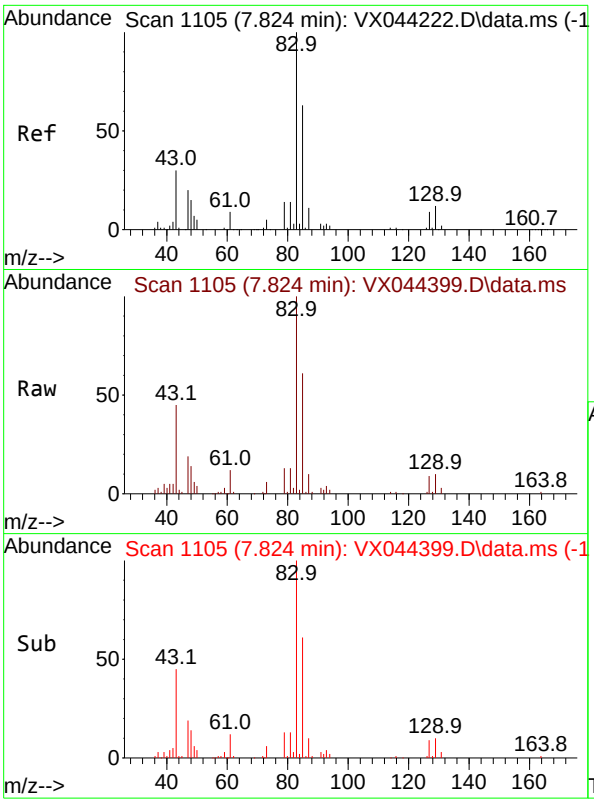


#46
Dibromomethane
Concen: 21.182 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 93 Resp: 26590

Ion	Ratio	Lower	Upper
93	100		
95	83.2	65.4	98.2
174	92.7	67.9	101.9



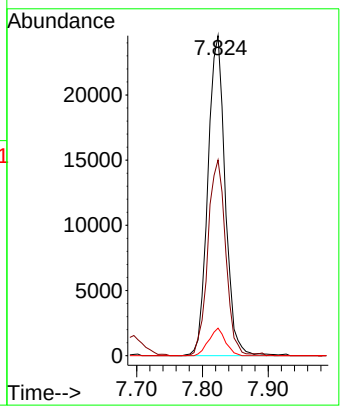


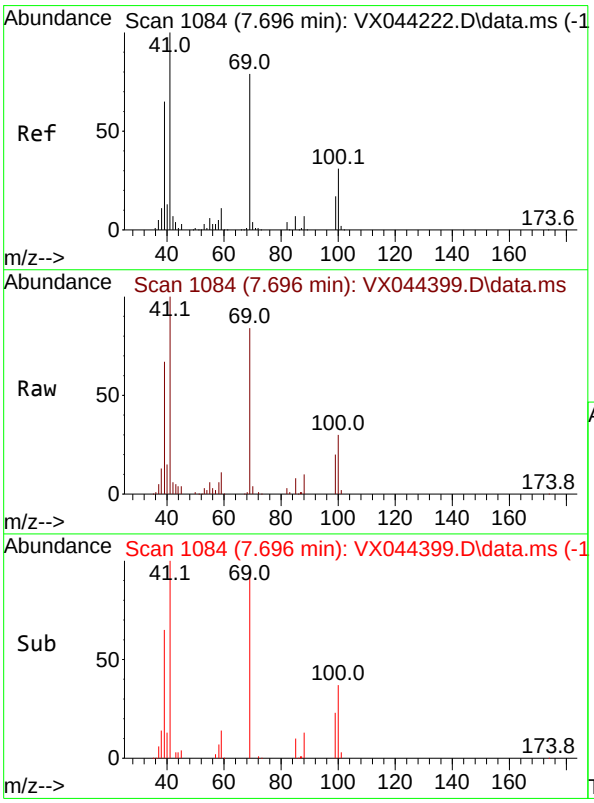
#47
Bromodichloromethane
Concen: 20.717 ug/l
RT: 7.824 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 83 Resp: 44915

Ion	Ratio	Lower	Upper
83	100		
85	61.2	50.6	75.8
127	8.6	7.3	10.9

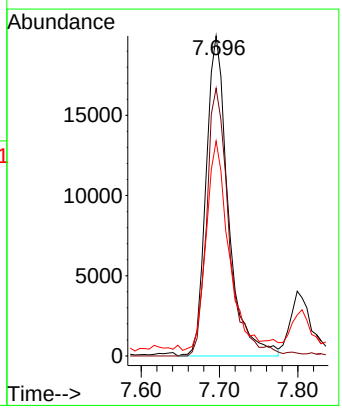


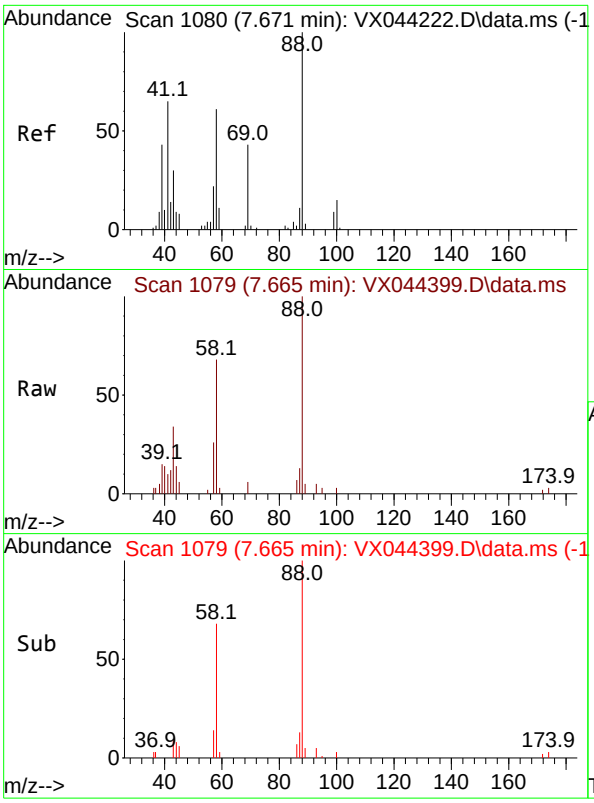


#48
Methyl methacrylate
Concen: 20.050 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 41 Resp: 39226

Ion	Ratio	Lower	Upper
41	100		
69	84.0	62.4	93.6
39	66.2	53.3	79.9



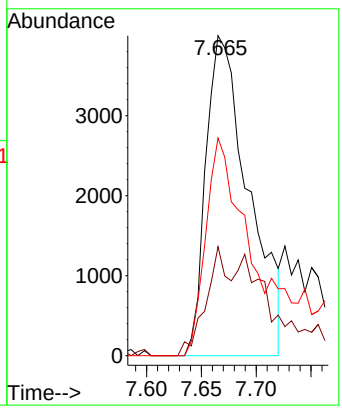


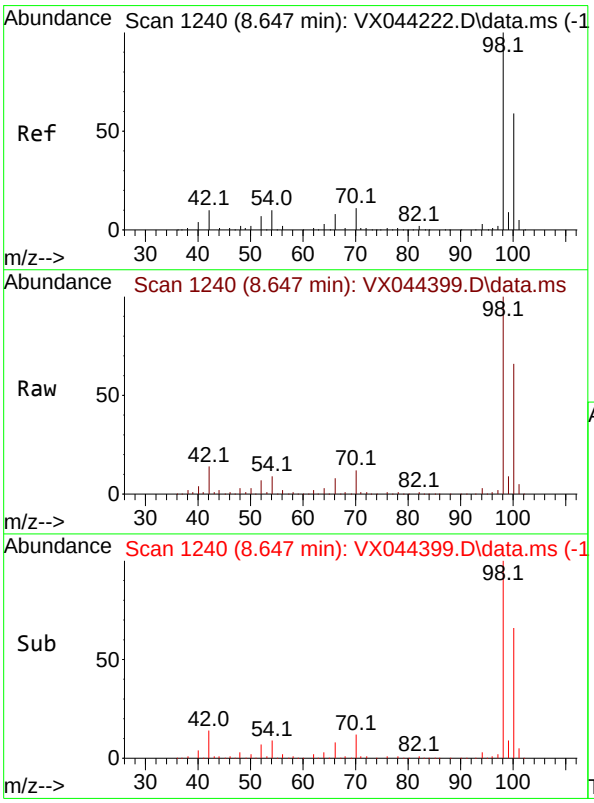
#49
1,4-Dioxane
Concen: 335.893 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 88 Resp: 10895

Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.1	40.7#
58	60.8	41.0	61.4

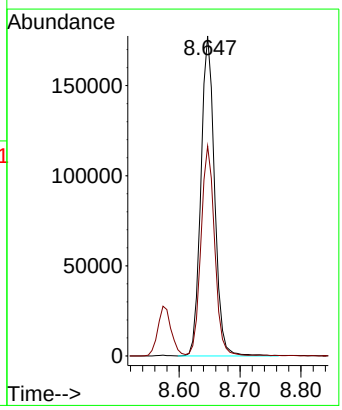


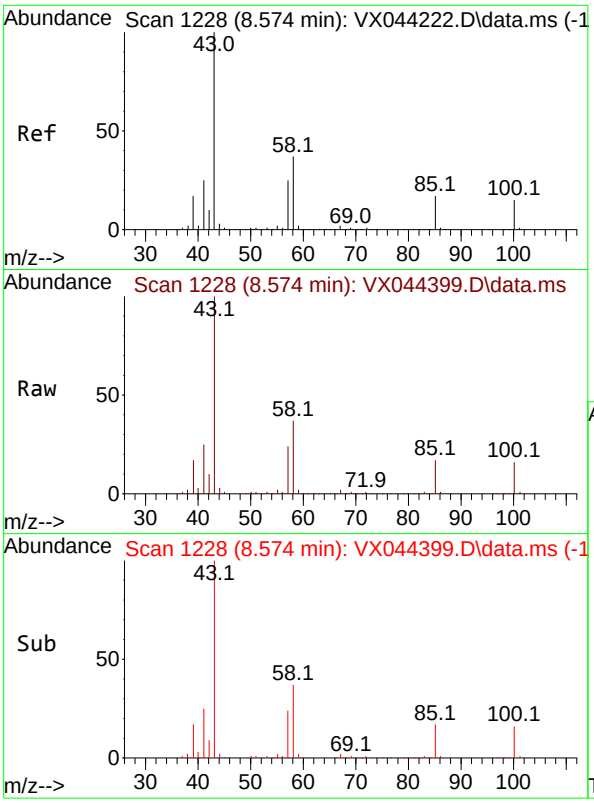


#50
Toluene-d8
Concen: 50.909 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 98 Resp: 277165

Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.5	77.3



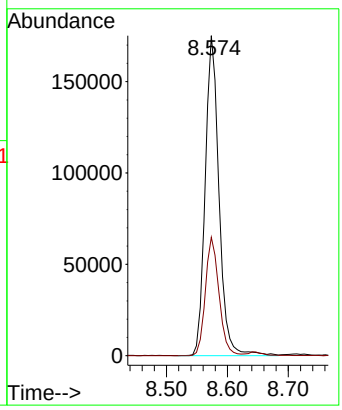


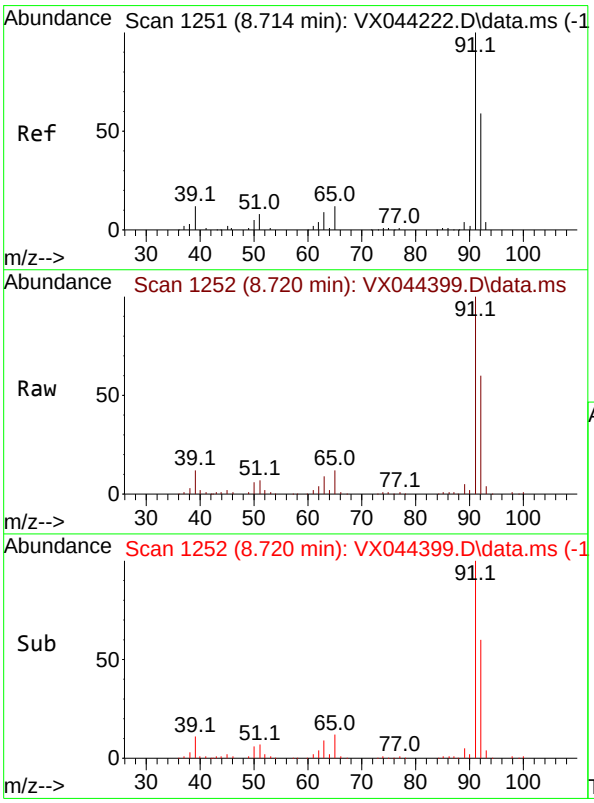
#51
4-Methyl-2-Pentanone
Concen: 106.686 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 43 Resp: 276459

Ion	Ratio	Lower	Upper
43	100		
58	36.4	29.4	44.0

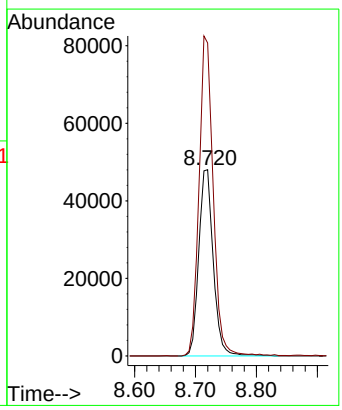


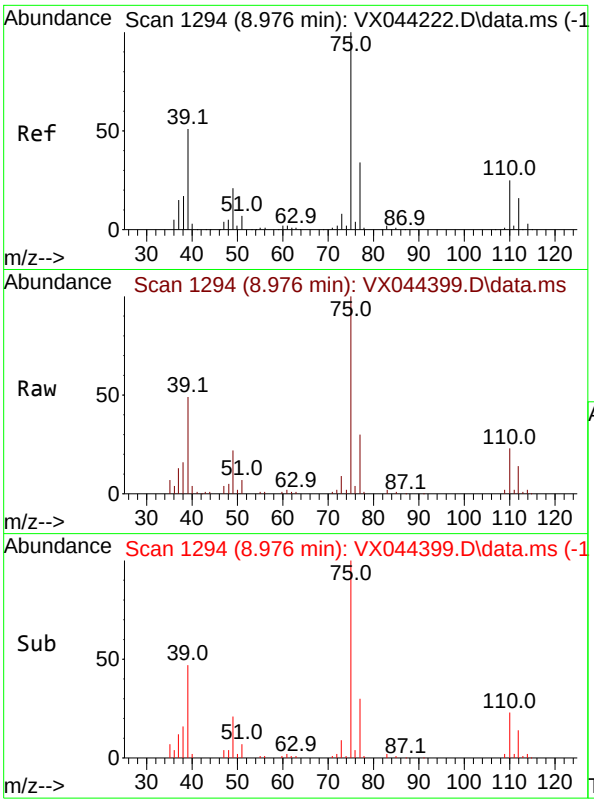


#52
Toluene
Concen: 20.006 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 92 Resp: 79570

Ion	Ratio	Lower	Upper
92	100		
91	168.2	137.0	205.6



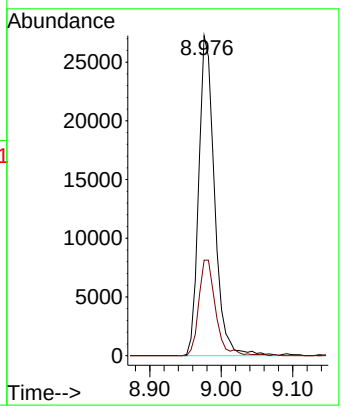


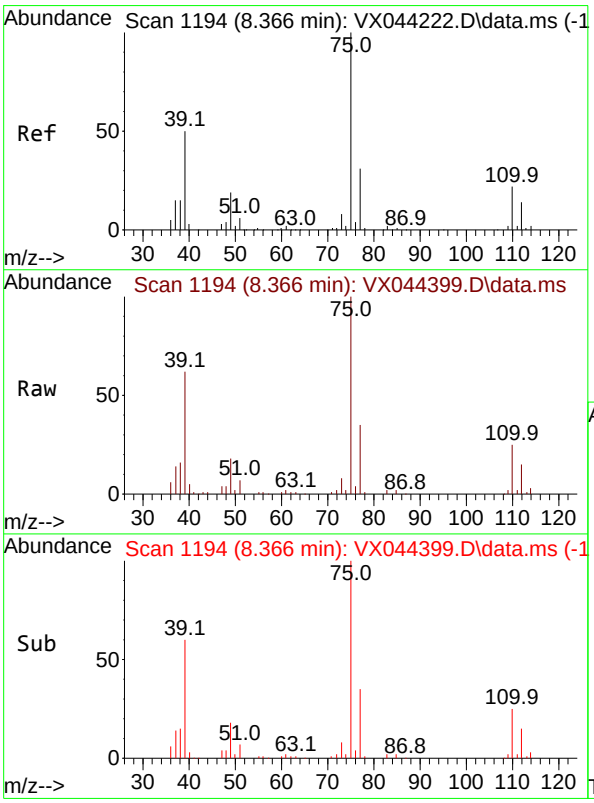
#53
t-1,3-Dichloropropene
Concen: 19.130 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 75 Resp: 41702

Ion	Ratio	Lower	Upper
75	100		
77	29.8	27.2	40.8

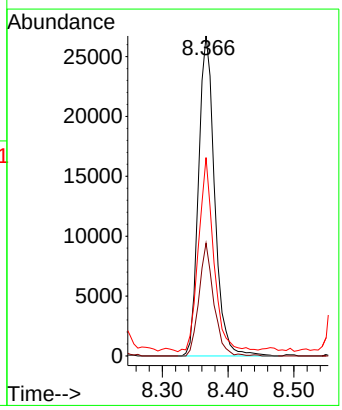


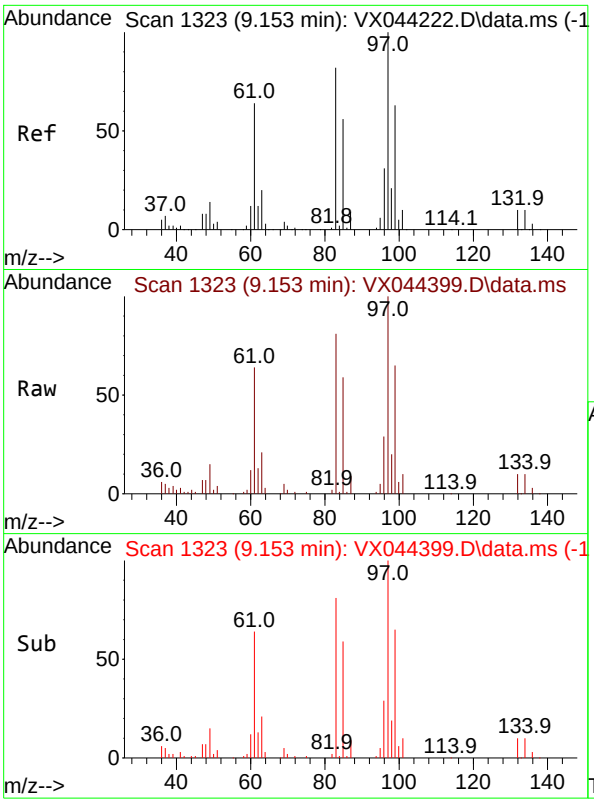


#54
cis-1,3-Dichloropropene
Concen: 19.319 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 75 Resp: 45604

Ion	Ratio	Lower	Upper
75	100		
77	35.3	24.7	37.1
39	60.7	40.3	60.5#



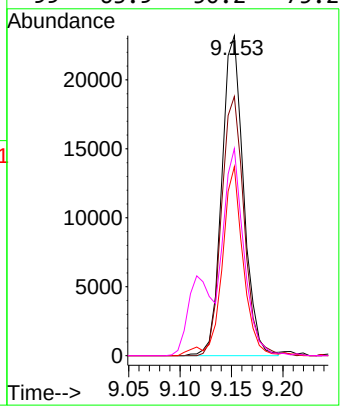


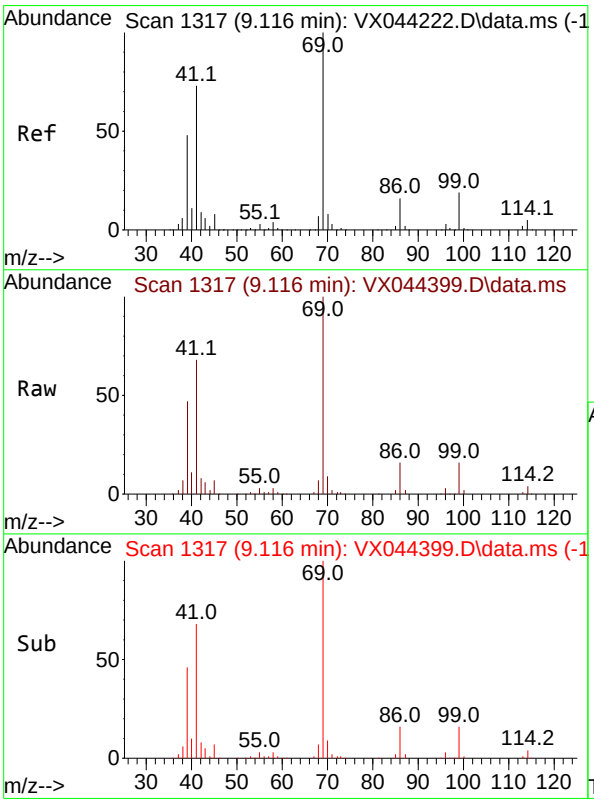
#55
1,1,2-Trichloroethane
Concen: 21.643 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 97 Resp: 34197

Ion	Ratio	Lower	Upper
97	100		
83	81.0	65.3	97.9
85	59.1	44.6	67.0
99	63.9	50.2	75.2

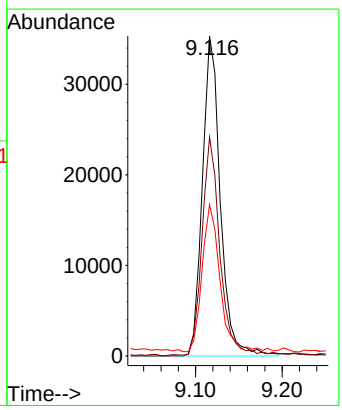


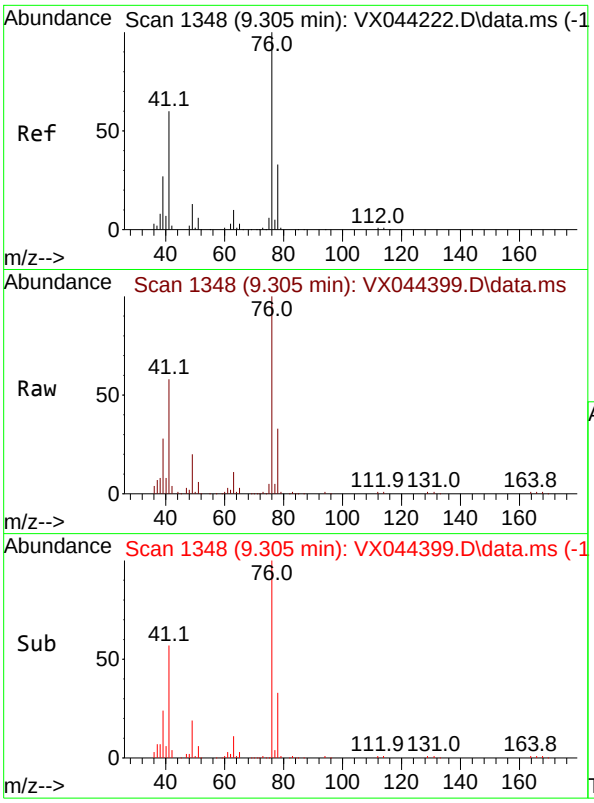


#56
Ethyl methacrylate
Concen: 20.388 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 69 Resp: 50855

Ion	Ratio	Lower	Upper
69	100		
41	69.3	56.6	85.0
39	45.9	37.4	56.0



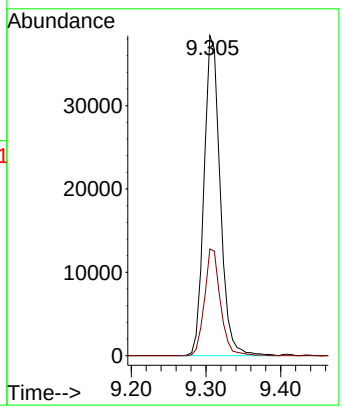


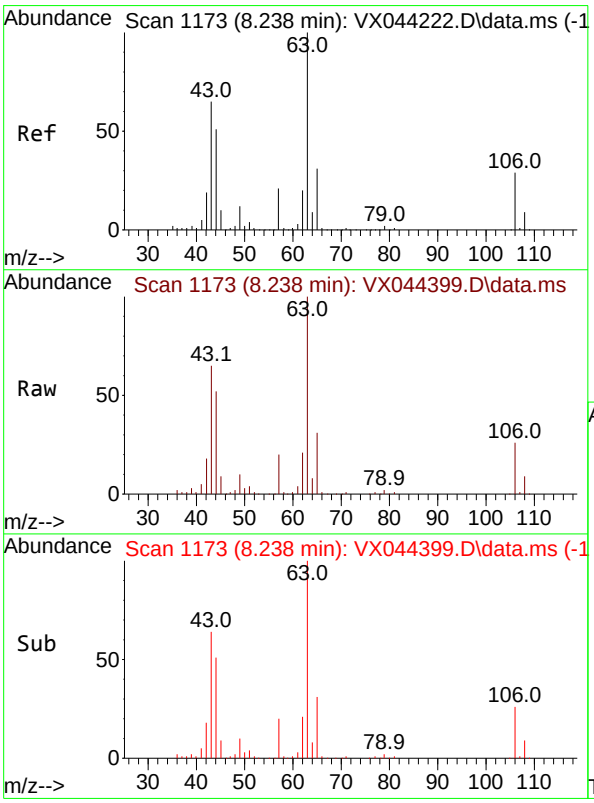
#57
1,3-Dichloropropane
Concen: 20.991 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 76 Resp: 57729

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.5	39.7

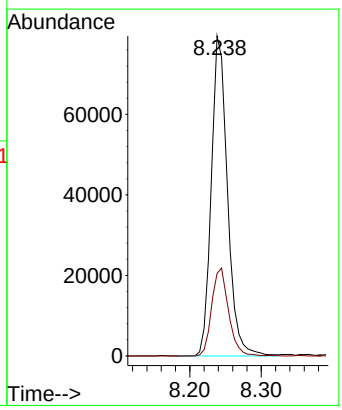


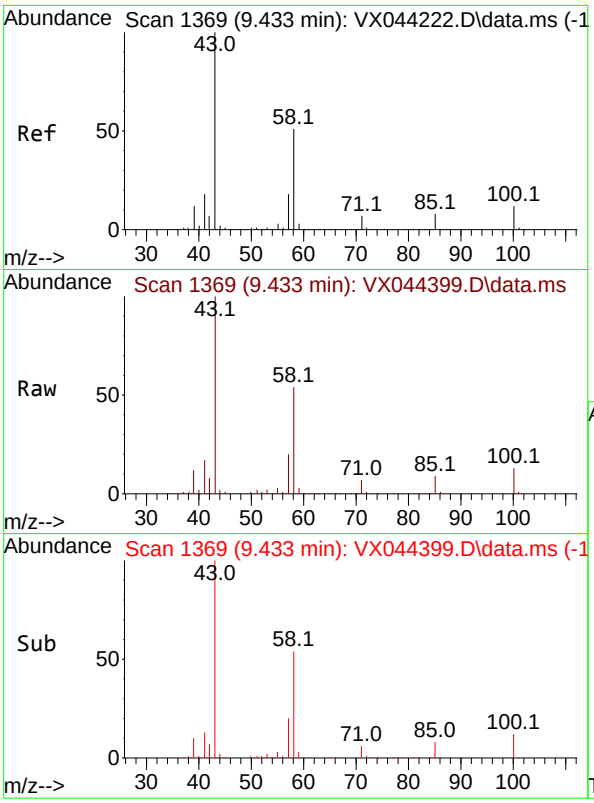


#58
2-Chloroethyl Vinyl ether
Concen: 99.300 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 63 Resp: 124927

Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.8	34.2



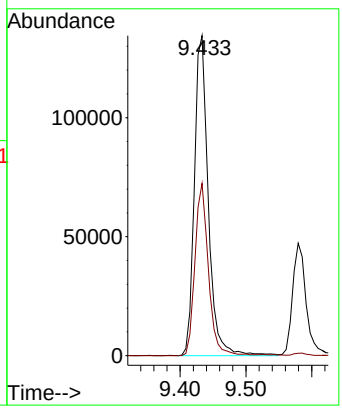


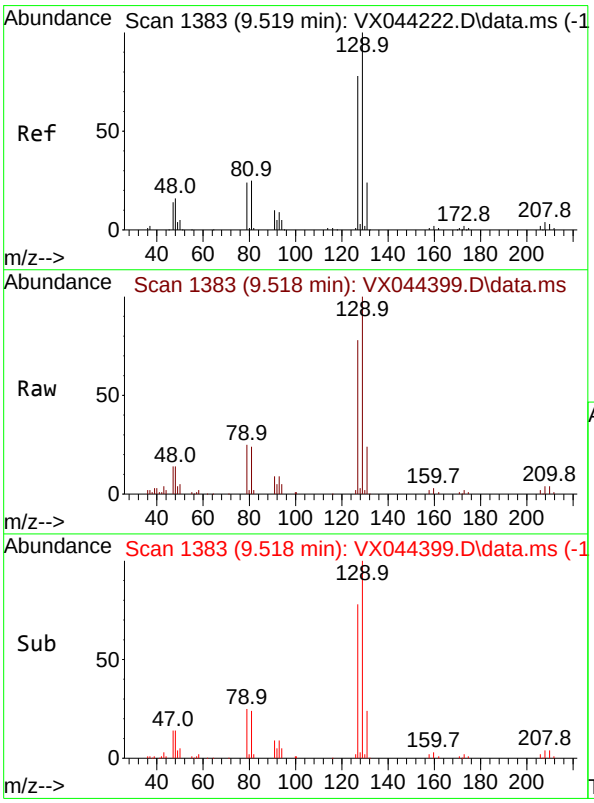
#59
2-Hexanone
Concen: 105.460 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 43 Resp: 197809

Ion	Ratio	Lower	Upper
43	100		
58	52.1	25.7	77.0

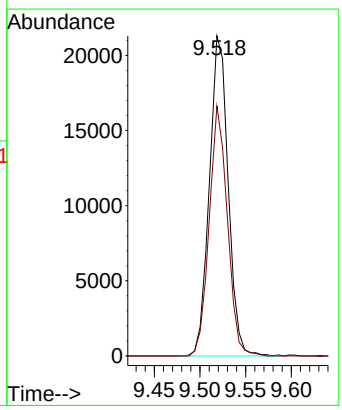


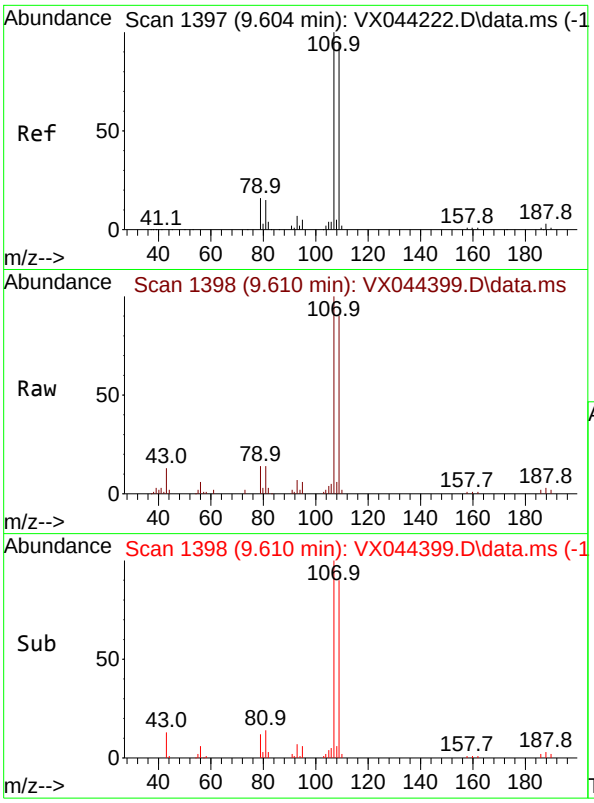


#60
Dibromochloromethane
Concen: 19.439 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:129 Resp: 30374

Ion	Ratio	Lower	Upper
129	100		
127	75.7	38.5	115.3



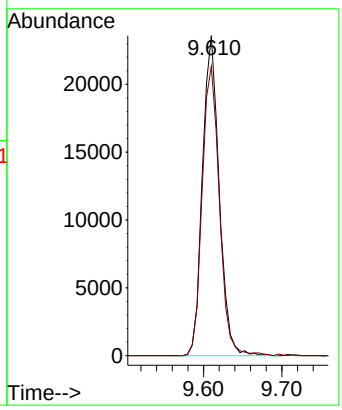


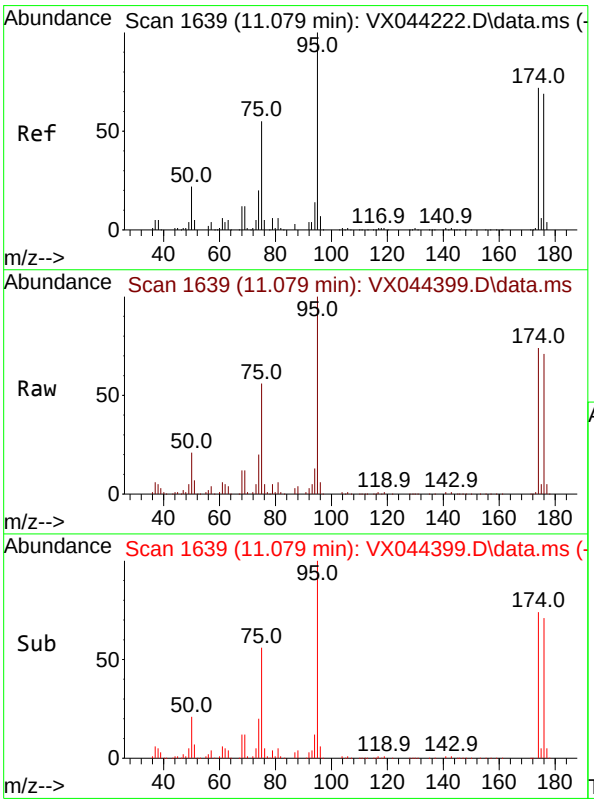
#61
1,2-Dibromoethane
Concen: 21.706 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:107 Resp: 34910

Ion	Ratio	Lower	Upper
107	100		
109	93.3	77.0	115.4

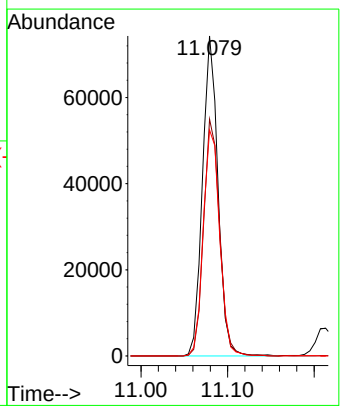


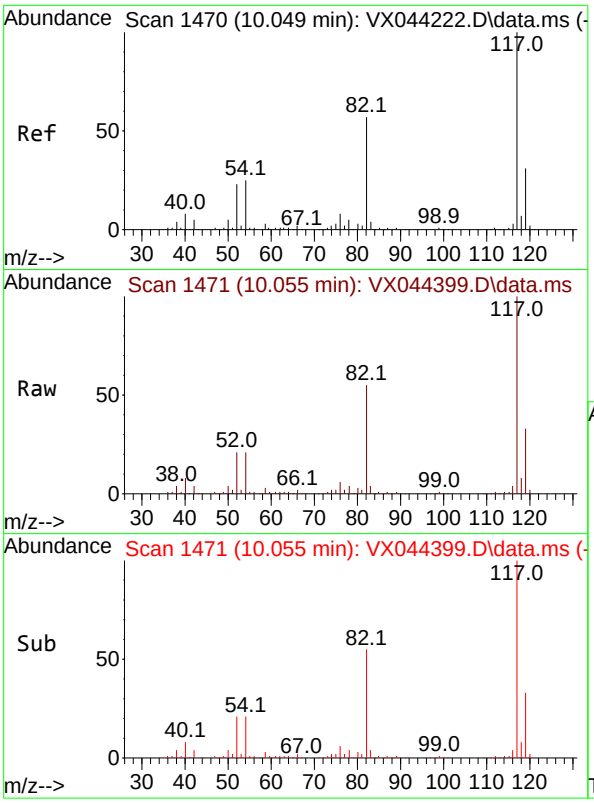


#62
4-Bromofluorobenzene
Concen: 48.522 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 95 Resp: 92307

Ion	Ratio	Lower	Upper
95	100		
174	76.1	0.0	145.8
176	75.0	0.0	137.8



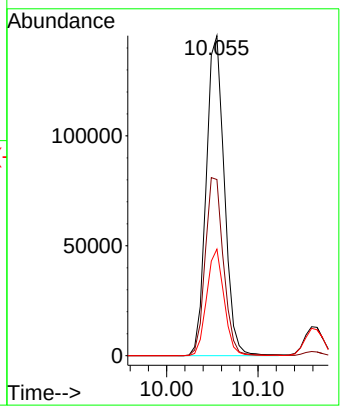


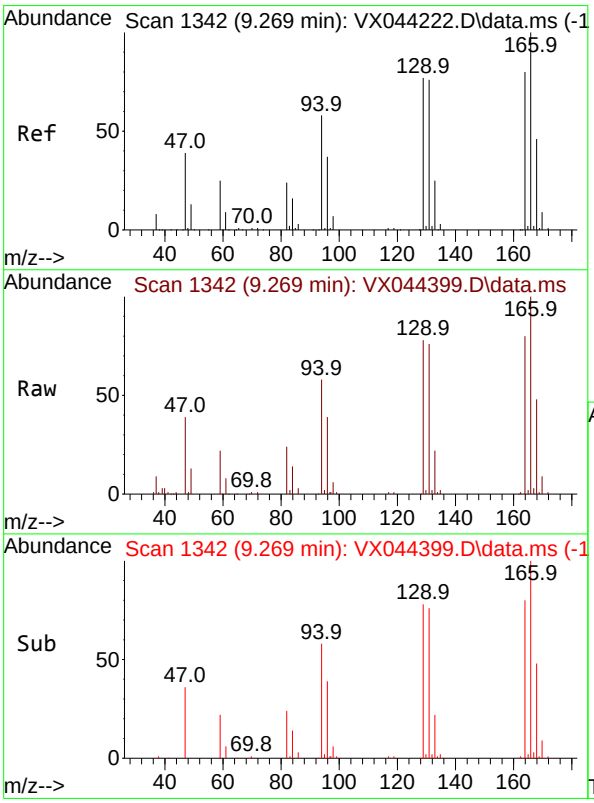
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:117 Resp: 200137

Ion	Ratio	Lower	Upper
117	100		
82	55.0	45.8	68.8
119	33.3	25.0	37.4

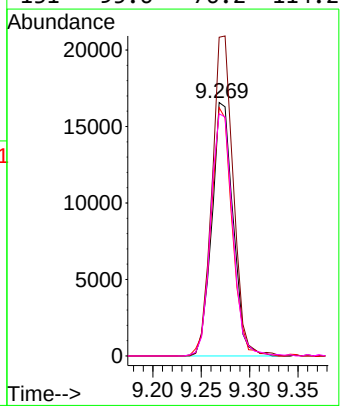


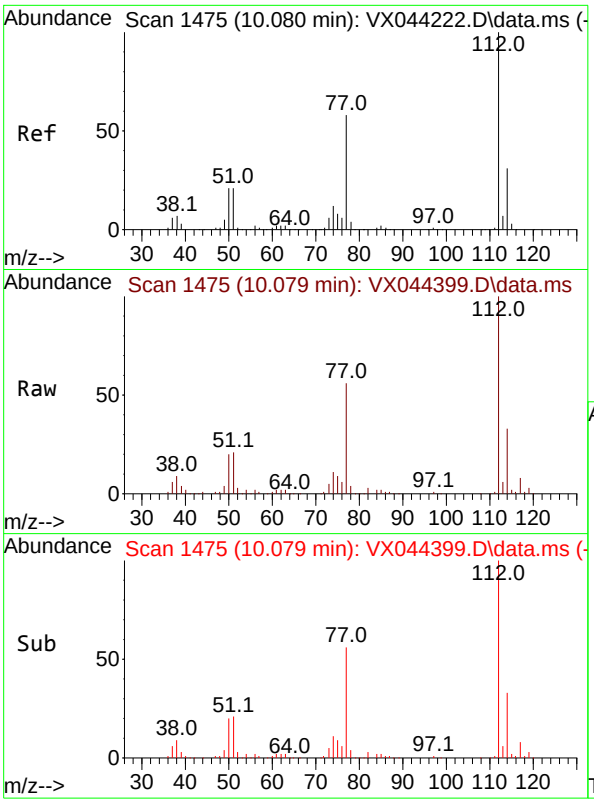


#64
Tetrachloroethene
Concen: 18.940 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:164 Resp: 25159

Ion	Ratio	Lower	Upper
164	100		
166	125.7	100.4	150.6
129	98.0	77.2	115.8
131	95.6	76.2	114.2



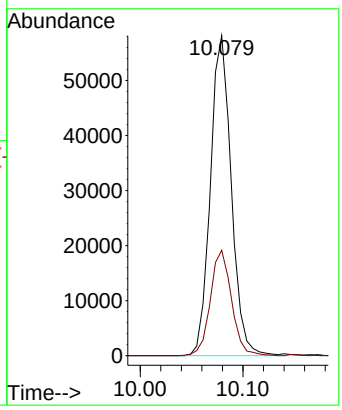


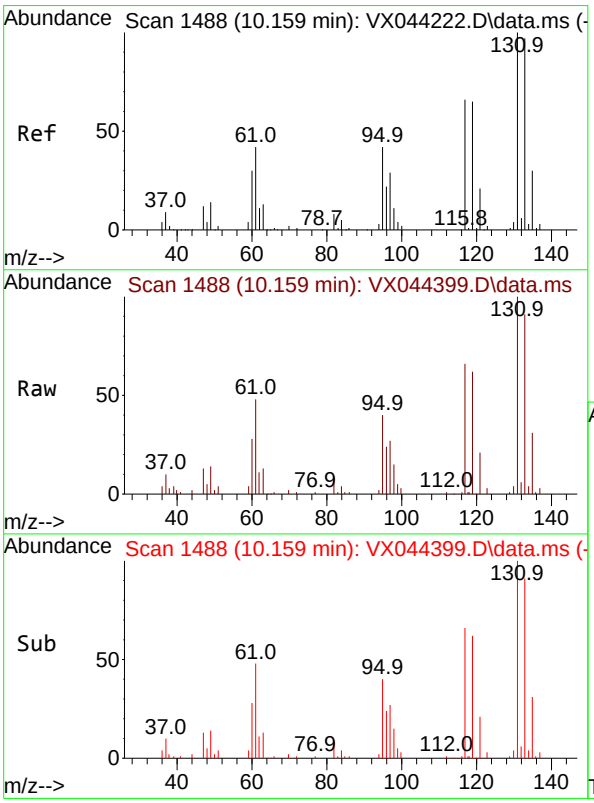
#65
Chlorobenzene
Concen: 19.115 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:112 Resp: 81973

Ion	Ratio	Lower	Upper
112	100		
114	32.9	25.0	37.6

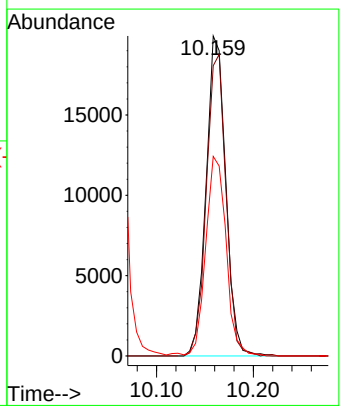


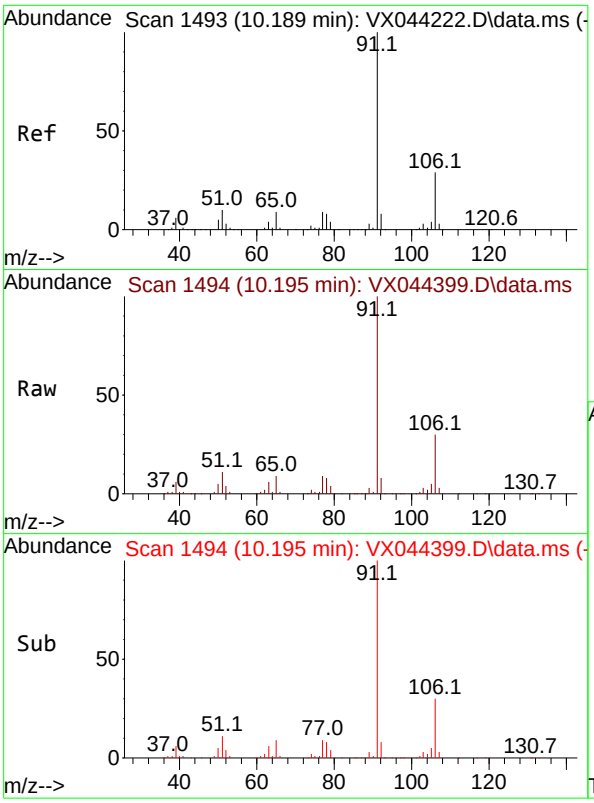


#66
1,1,1,2-Tetrachloroethane
Concen: 20.461 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:131 Resp: 28201

Ion	Ratio	Lower	Upper
131	100		
133	94.0	47.3	141.8
119	65.0	31.6	95.0



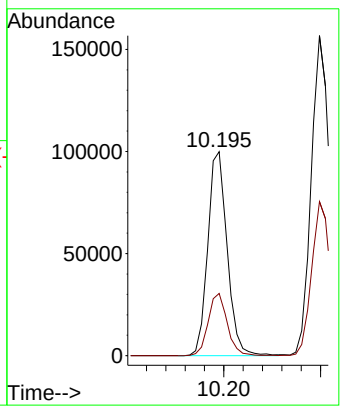


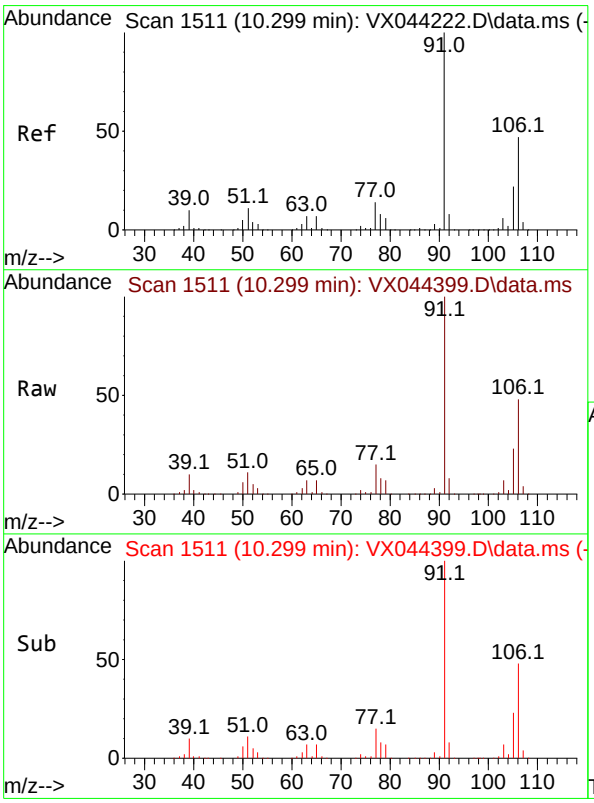
#67
Ethyl Benzene
Concen: 18.778 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 91 Resp: 139144

Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.5	35.3

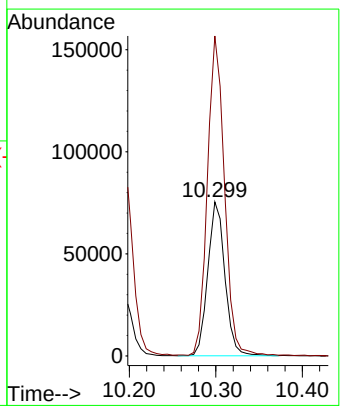


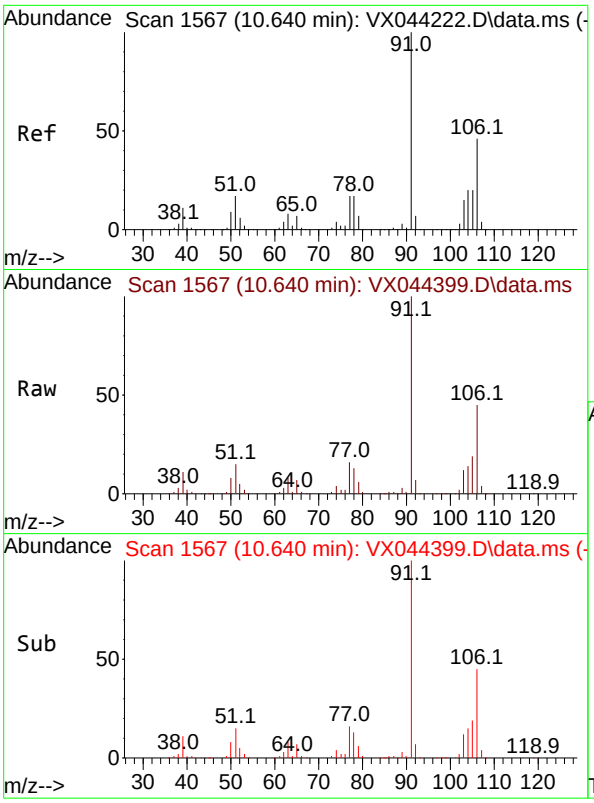


#68
m/p-Xylenes
Concen: 38.041 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:106 Resp: 103433

Ion	Ratio	Lower	Upper
106	100		
91	208.3	170.2	255.2



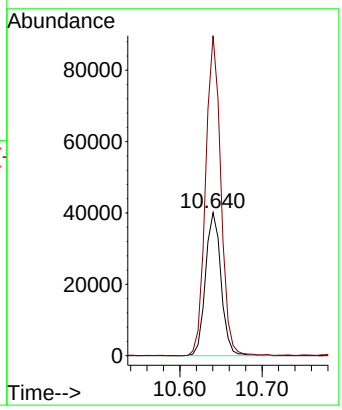


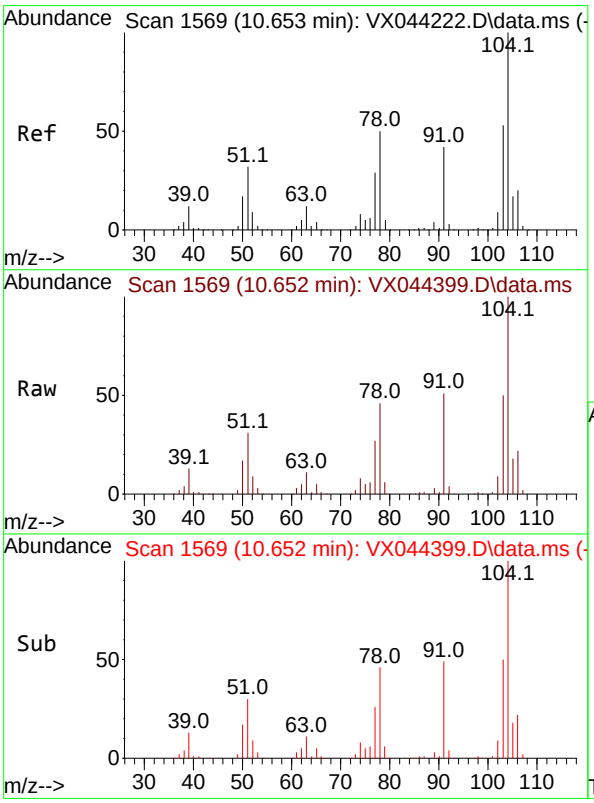
#69
o-Xylene
Concen: 19.133 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:106 Resp: 52635

Ion	Ratio	Lower	Upper
106	100		
91	219.8	112.3	337.0

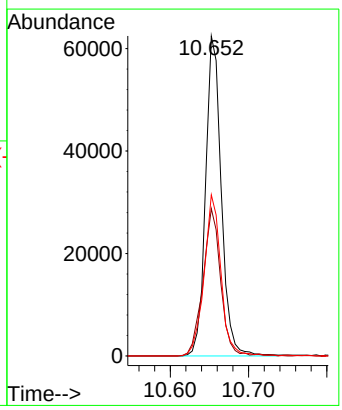


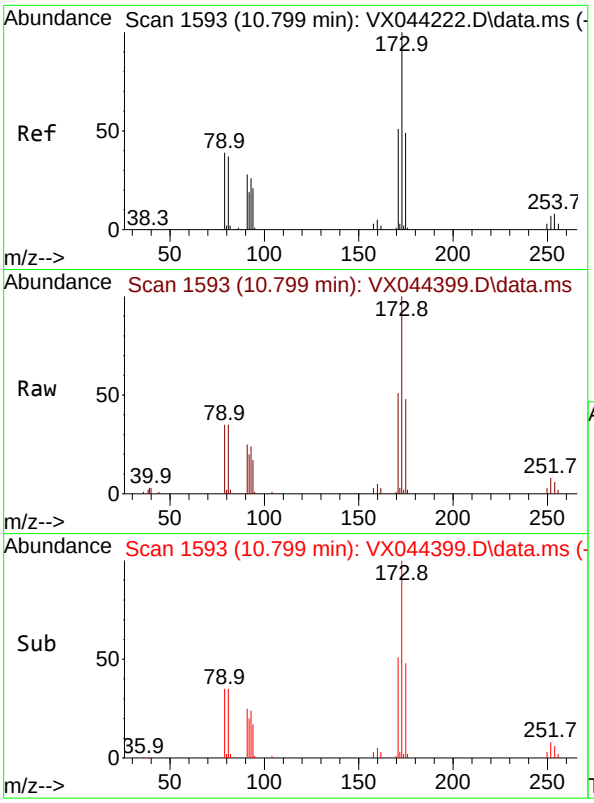


#70
Styrene
Concen: 19.740 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:104 Resp: 87058

Ion	Ratio	Lower	Upper
104	100		
78	51.7	44.6	67.0
103	54.0	45.4	68.0



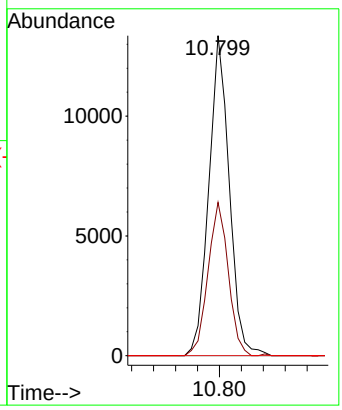


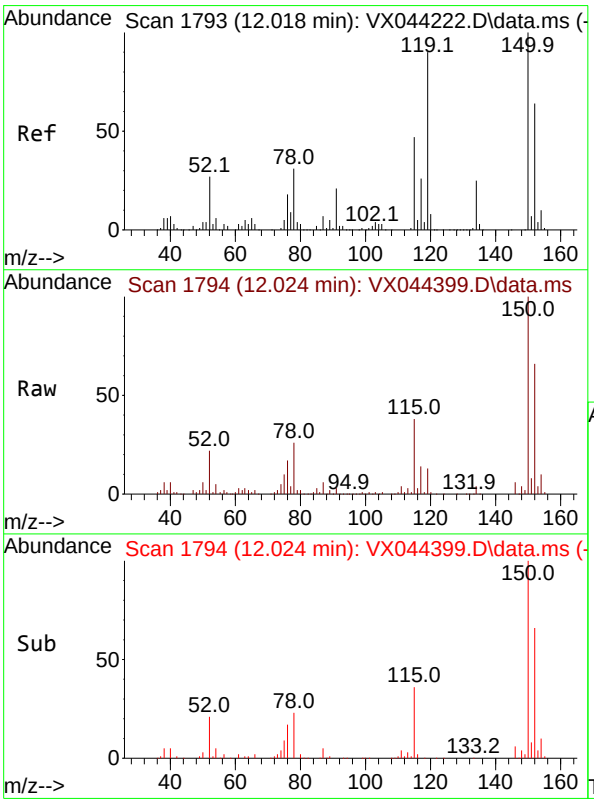
#71
Bromoform
Concen: 19.959 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:173 Resp: 17299

Ion	Ratio	Lower	Upper
173	100		
175	47.5	23.8	71.4
254	0.0	0.0	0.0

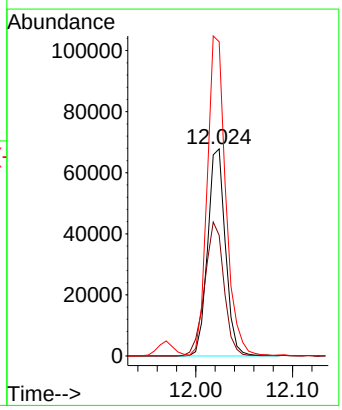


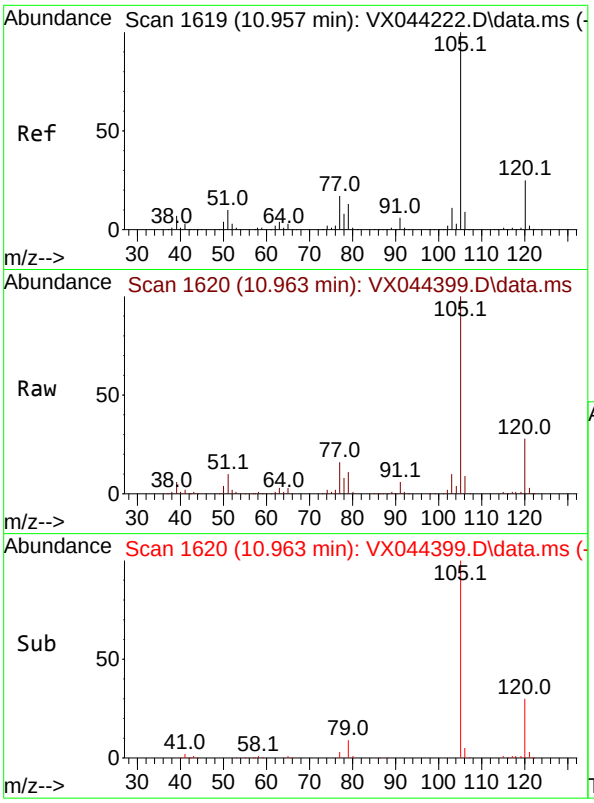


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:152 Resp: 86763

Ion	Ratio	Lower	Upper
152	100		
115	70.0	44.5	133.3
150	160.3	0.0	353.8



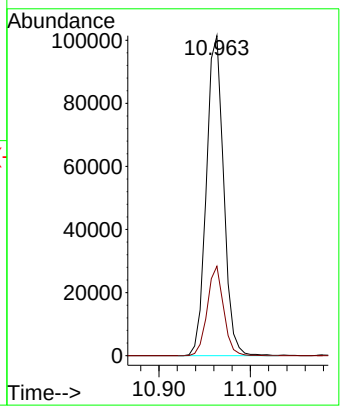


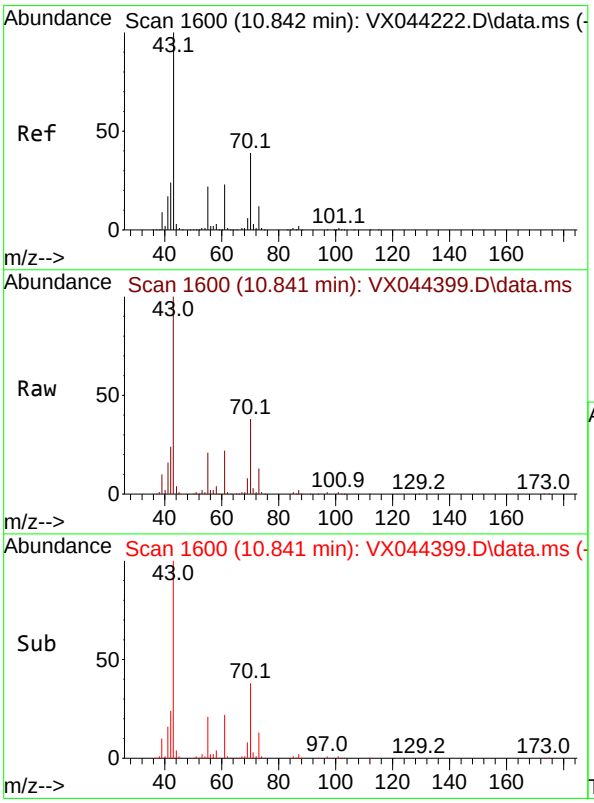
#73
Isopropylbenzene
Concen: 19.949 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:105 Resp: 132502

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.1	39.3

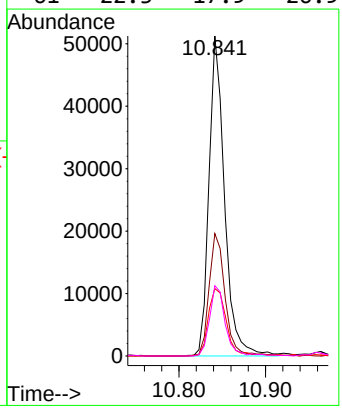


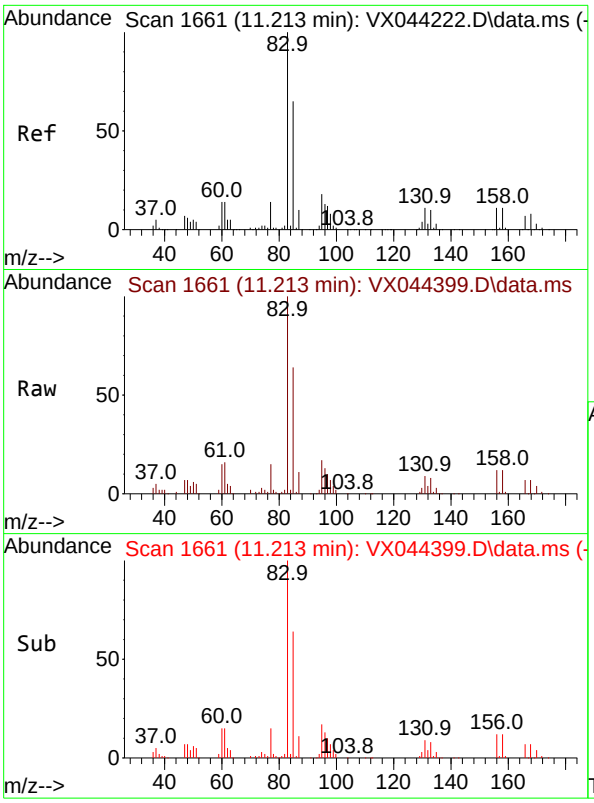


#74
N-amyl acetate
Concen: 20.909 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 43 Resp: 64183

Ion	Ratio	Lower	Upper
43	100		
70	39.5	31.9	47.9
55	24.2	17.9	26.9
61	22.3	17.9	26.9



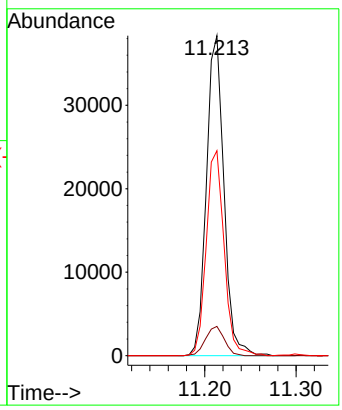


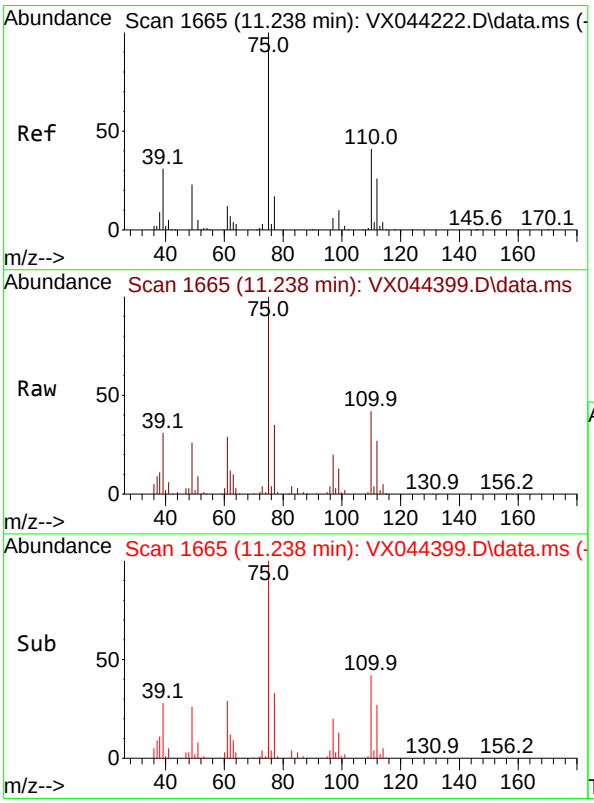
#75
1,1,2,2-Tetrachloroethane
Concen: 21.981 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 83 Resp: 50710

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	65.6	32.5	97.4

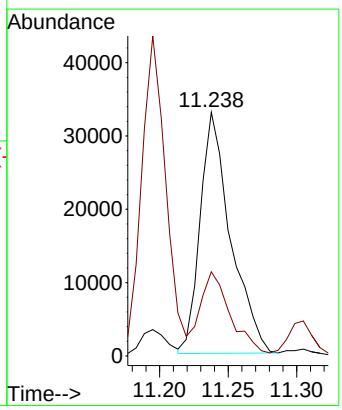


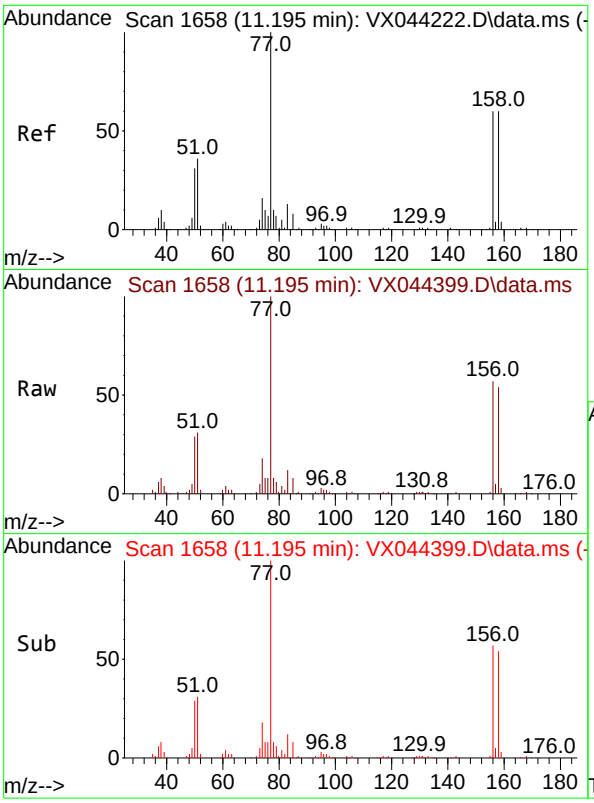


#76
1,2,3-Trichloropropane
Concen: 26.339 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 75 Resp: 51024

Ion	Ratio	Lower	Upper
75	100		
77	35.2	20.9	62.7



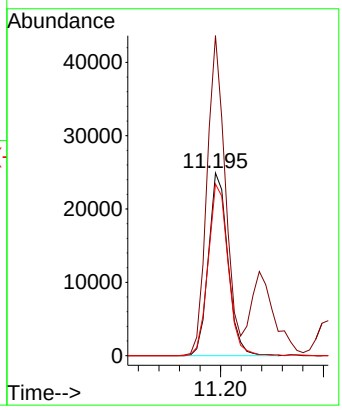


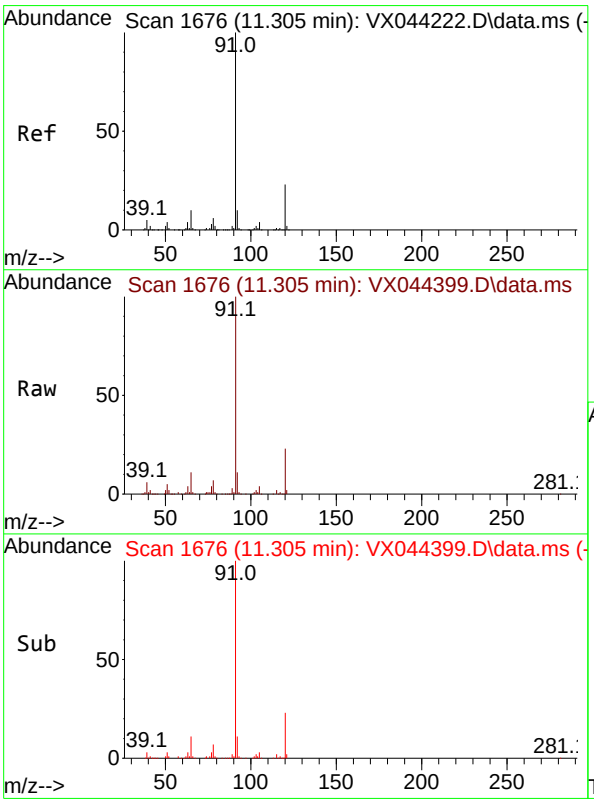
#77
Bromobenzene
Concen: 20.253 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:156 Resp: 32621

Ion	Ratio	Lower	Upper
156	100		
77	165.9	82.6	247.8
158	96.7	48.8	146.4

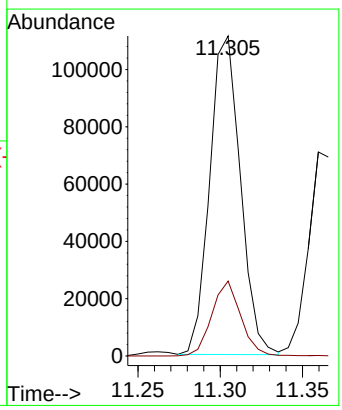


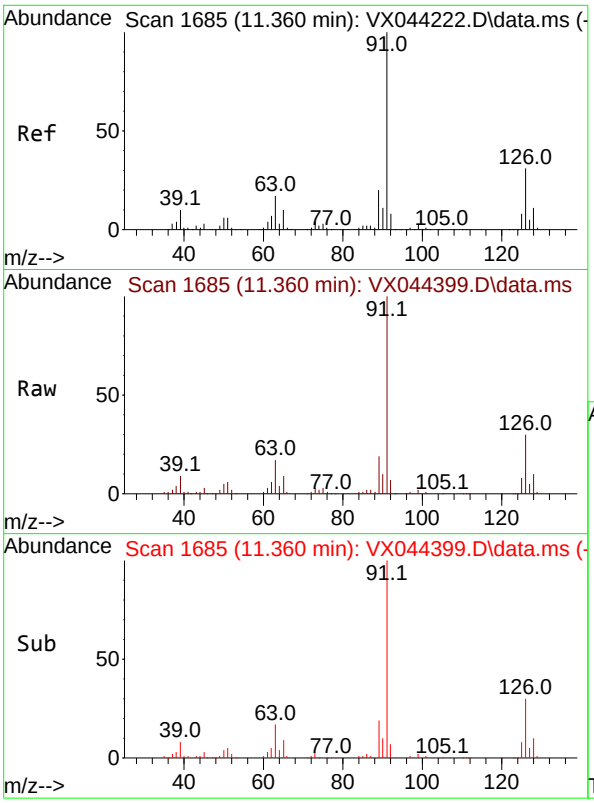


#78
n-propylbenzene
Concen: 19.640 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 91 Resp: 144182

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0



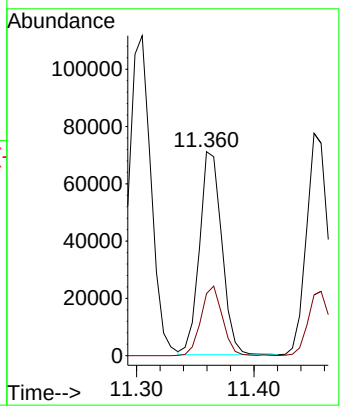


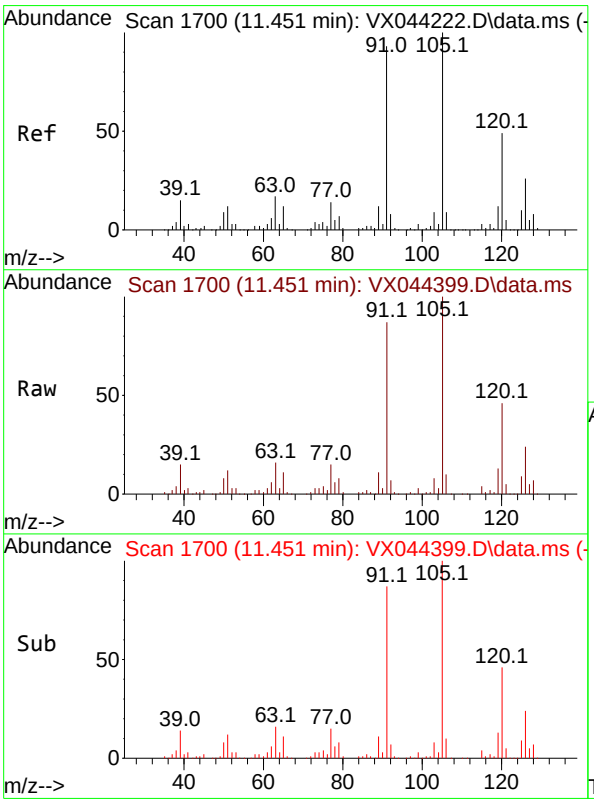
#79
2-Chlorotoluene
Concen: 19.719 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 91 Resp: 93621

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.4	49.1

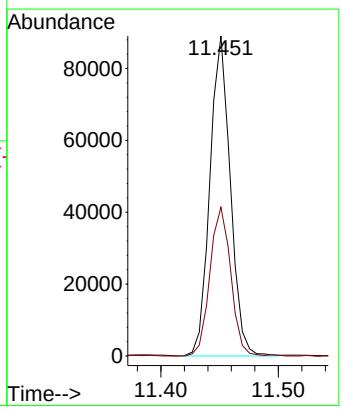


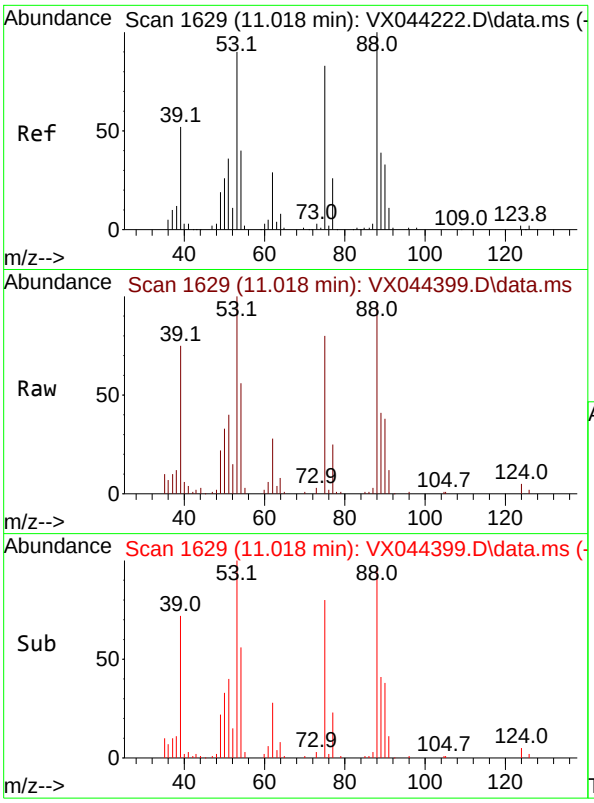


#80
1,3,5-Trimethylbenzene
Concen: 19.549 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:105 Resp: 107680

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.4



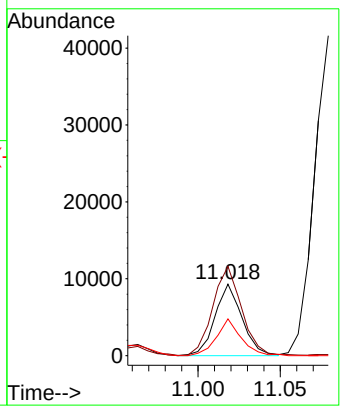


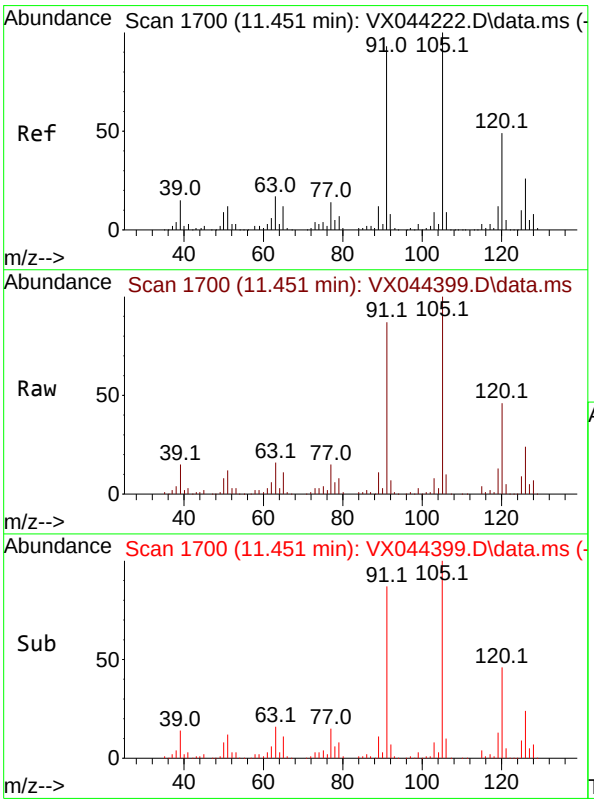
#81
trans-1,4-Dichloro-2-butene
Concen: 19.586 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 75 Resp: 10659

Ion	Ratio	Lower	Upper
75	100		
53	131.7	93.6	140.4
89	47.0	37.3	55.9

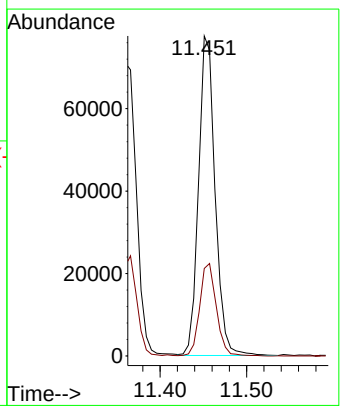


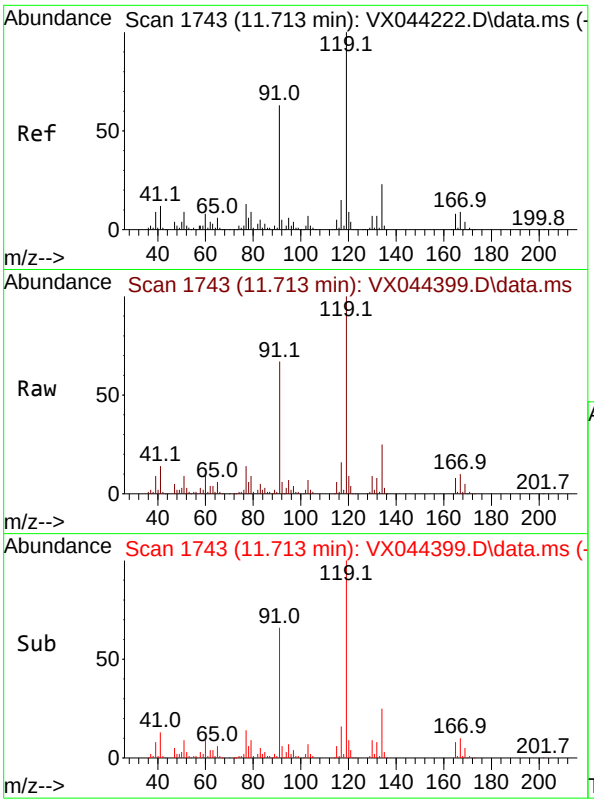


#82
4-Chlorotoluene
Concen: 19.553 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 91 Resp: 102797

Ion	Ratio	Lower	Upper
91	100		
126	29.2	14.5	43.5



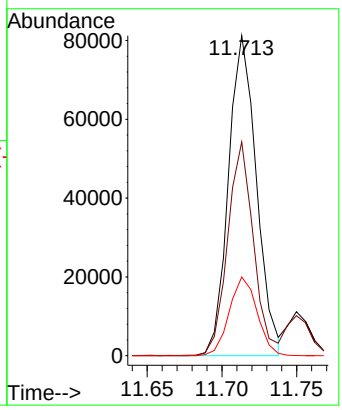


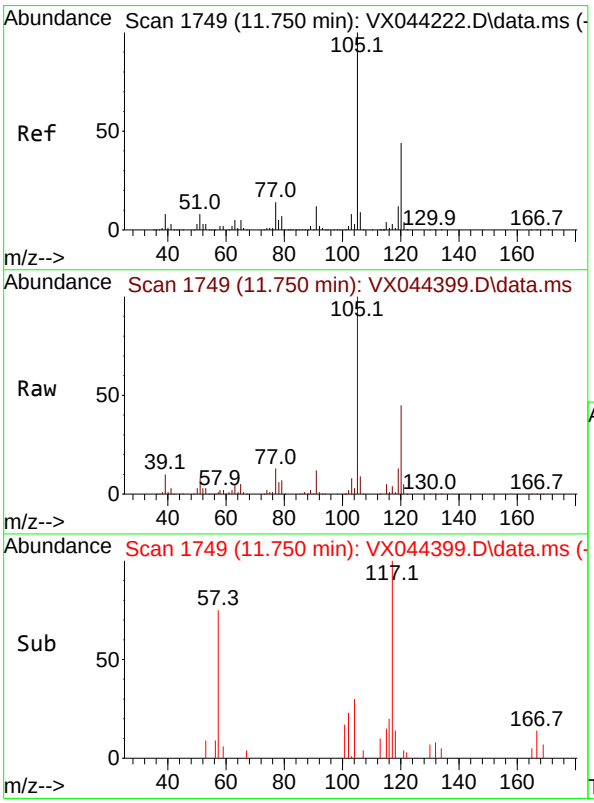
#83
tert-Butylbenzene
Concen: 19.429 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:119 Resp: 105765

Ion	Ratio	Lower	Upper
119	100		
91	61.9	30.9	92.5
134	24.5	11.5	34.4

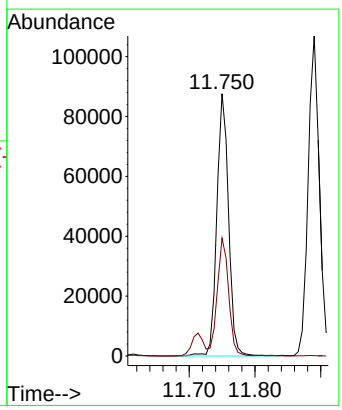


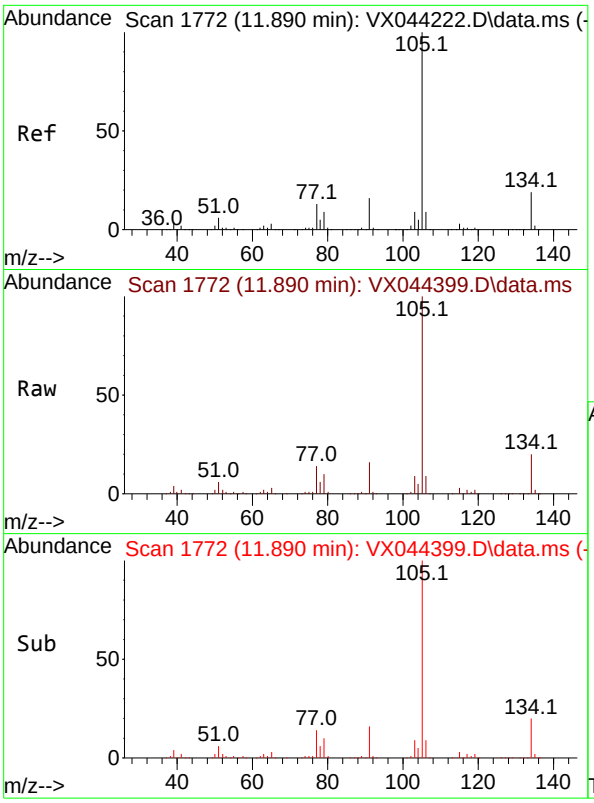


#84
1,2,4-Trimethylbenzene
Concen: 20.064 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:105 Resp: 108536

Ion	Ratio	Lower	Upper
105	100		
120	43.7	21.7	65.1



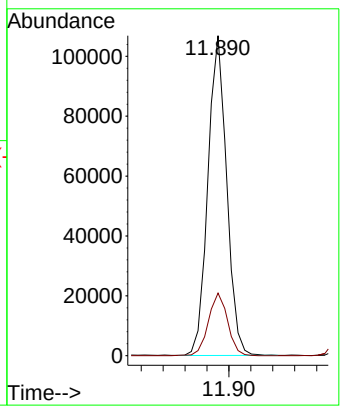


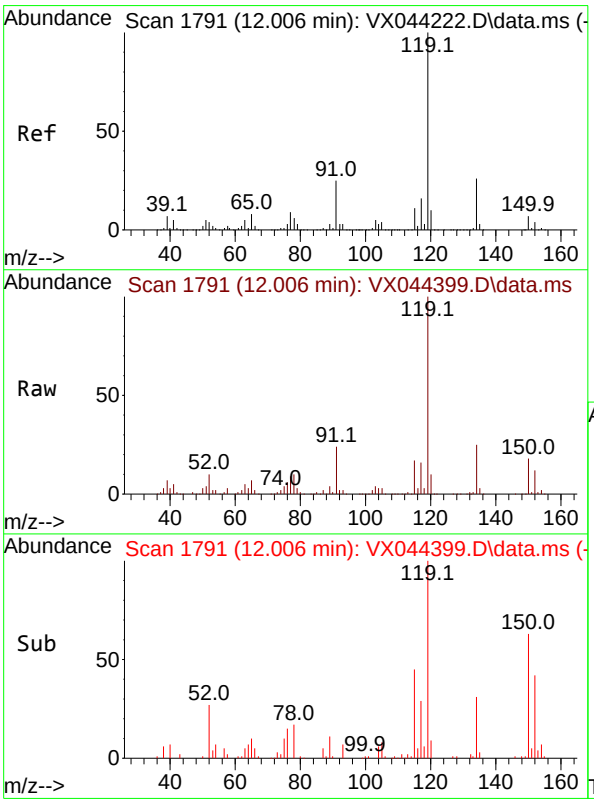
#85
sec-Butylbenzene
Concen: 19.191 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:105 Resp: 126820

Ion	Ratio	Lower	Upper
105	100		
134	20.0	9.8	29.4

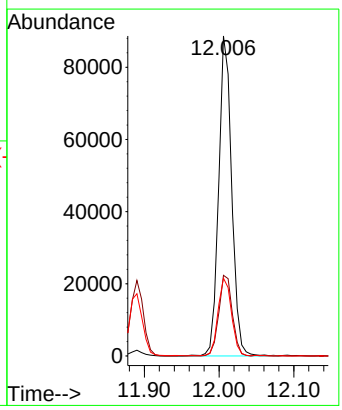


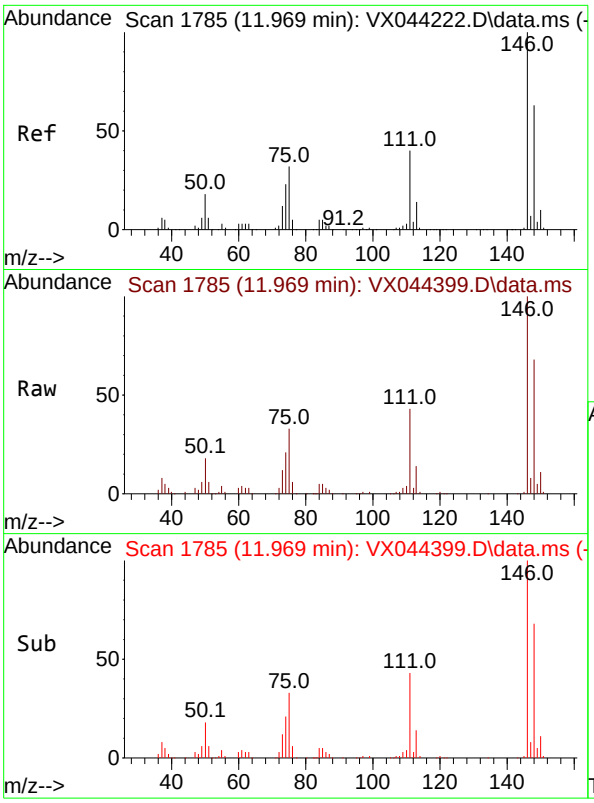


#86
p-Isopropyltoluene
Concen: 19.498 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:119 Resp: 107246

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.8	38.4
91	25.0	13.0	39.0



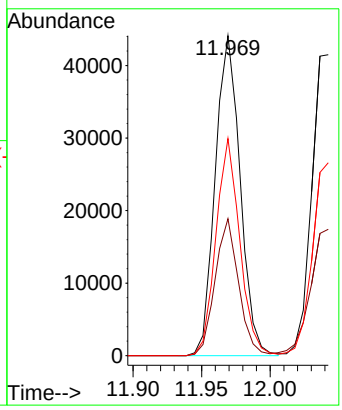


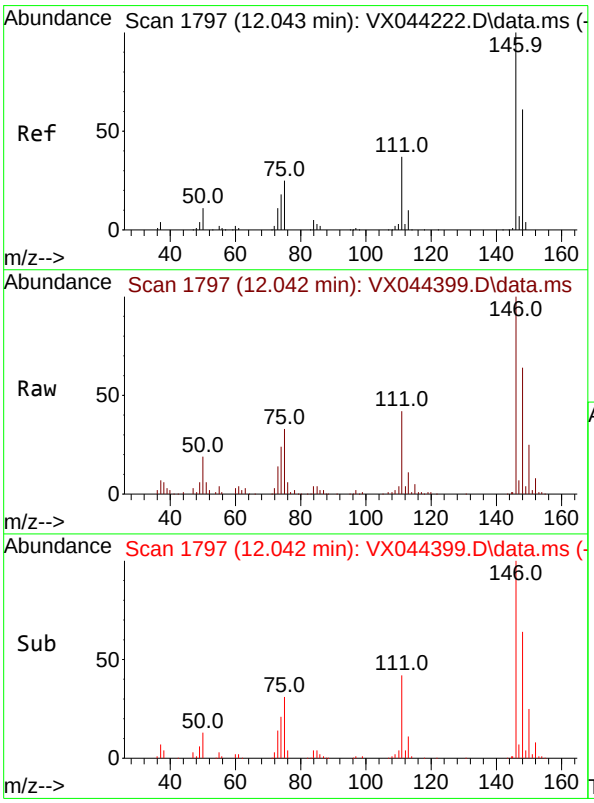
#87
1,3-Dichlorobenzene
Concen: 19.801 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:146 Resp: 55710

Ion	Ratio	Lower	Upper
146	100		
111	40.5	21.4	64.2
148	65.1	31.7	95.1

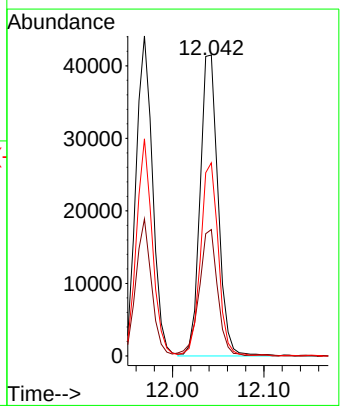


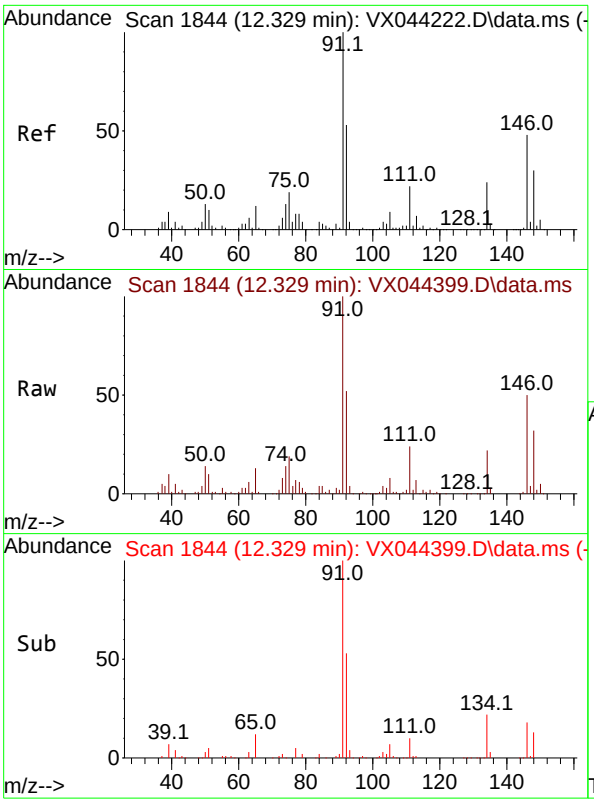


#88
1,4-Dichlorobenzene
Concen: 19.579 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:146 Resp: 56626

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.0	63.0
148	62.7	32.3	96.8



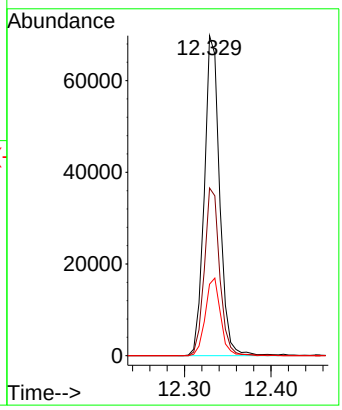


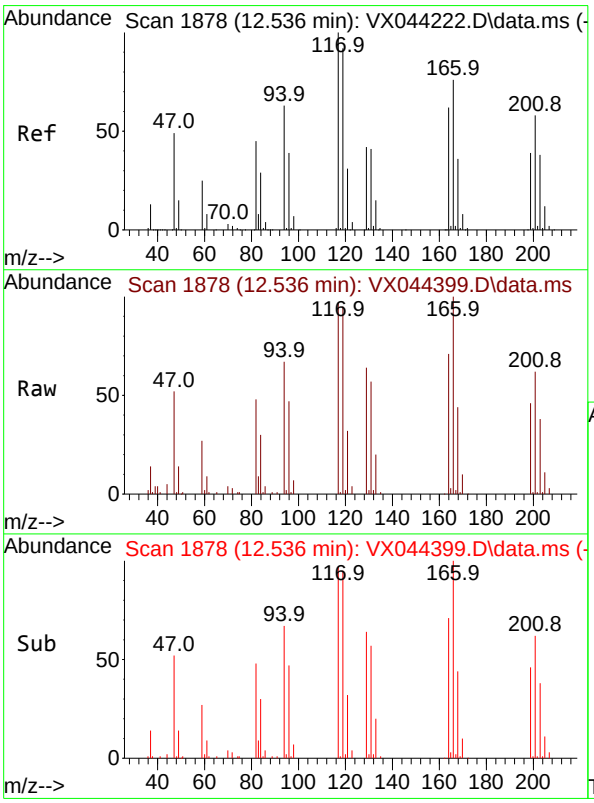
#89
n-Butylbenzene
Concen: 18.548 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion: 91 Resp: 85786

Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.6	79.7
134	24.2	12.6	37.8

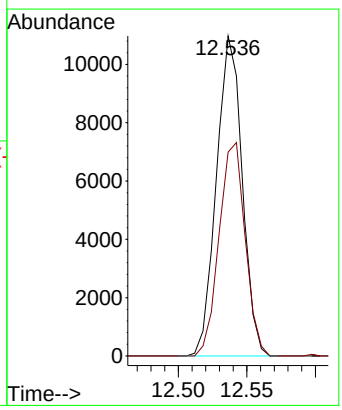


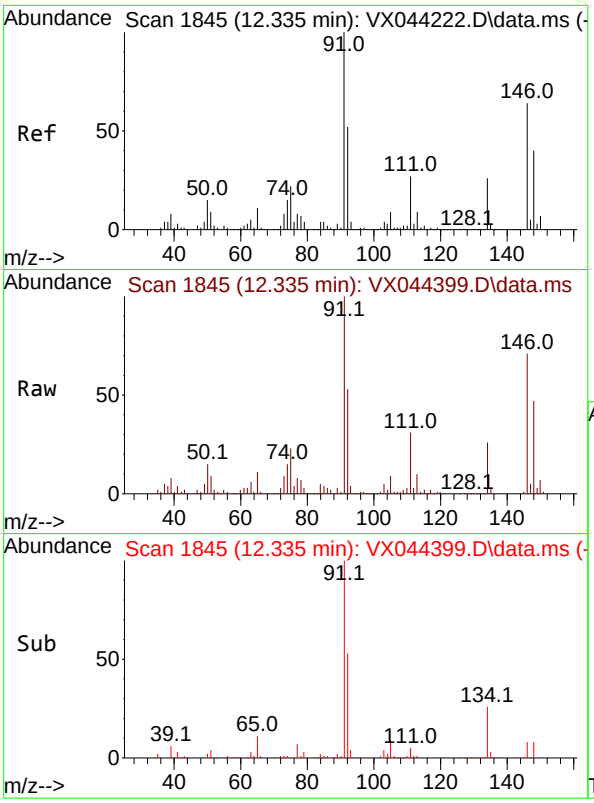


#90
Hexachloroethane
Concen: 17.859 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:117 Resp: 14339

Ion	Ratio	Lower	Upper
117	100		
201	67.7	31.4	94.2



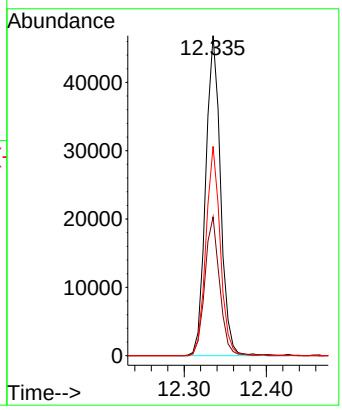


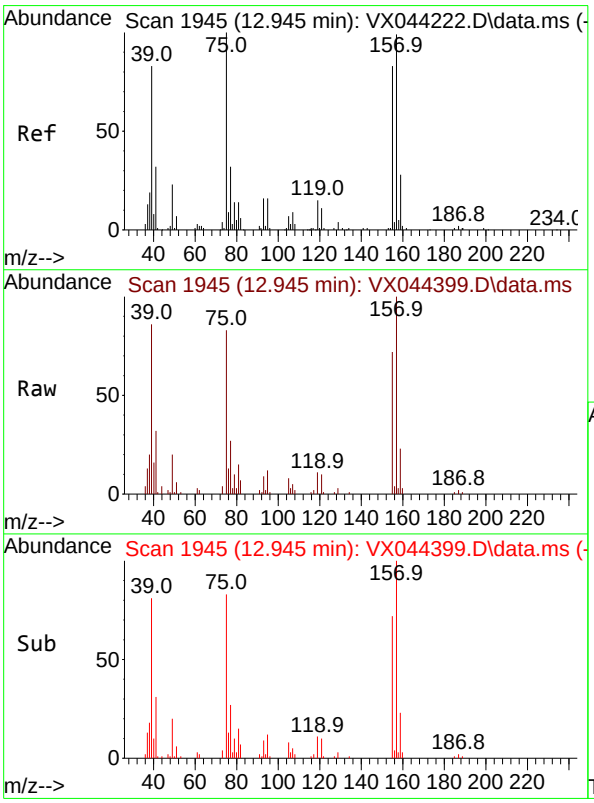
#91
1,2-Dichlorobenzene
Concen: 20.072 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:146 Resp: 58637

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.4	64.3
148	63.1	31.6	95.0

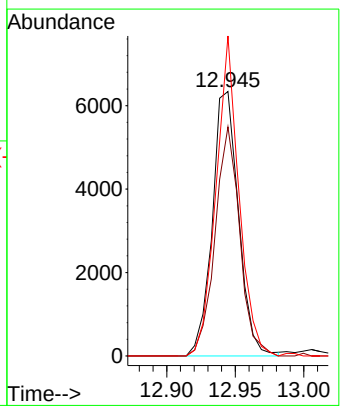


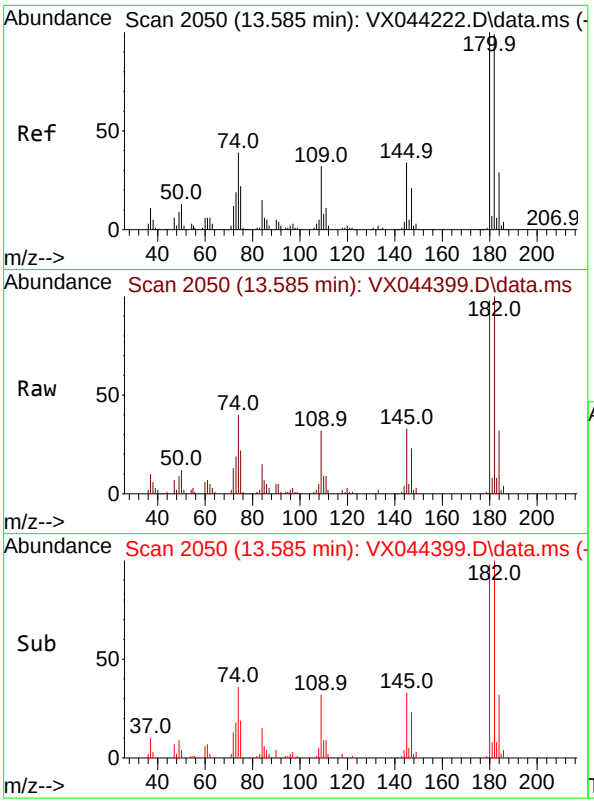


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.864 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion: 75 Resp: 8448

Ion	Ratio	Lower	Upper
75	100		
155	81.2	38.1	114.3
157	105.4	47.2	141.6



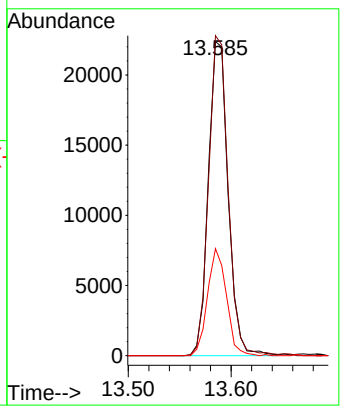


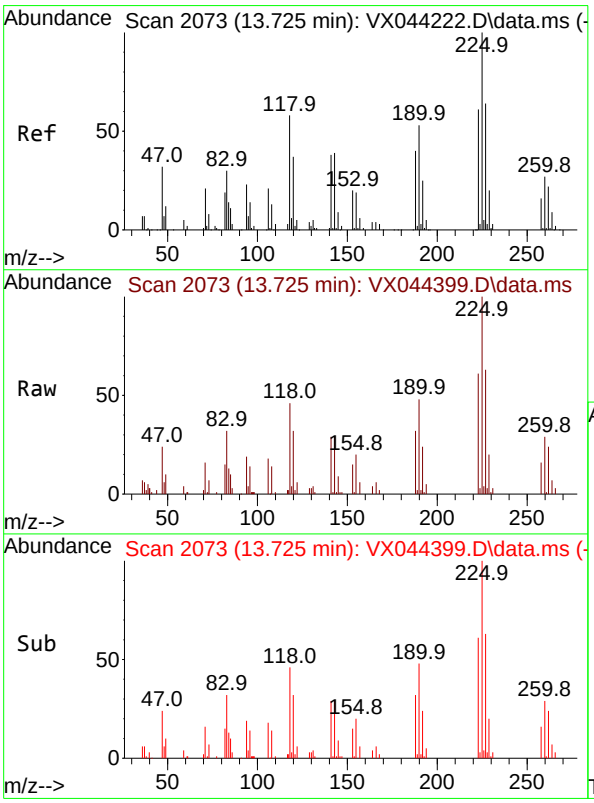
#93
1,2,4-Trichlorobenzene
Concen: 18.663 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:180 Resp: 29891

Ion	Ratio	Lower	Upper
180	100		
182	100.7	48.0	144.2
145	32.7	16.6	49.7

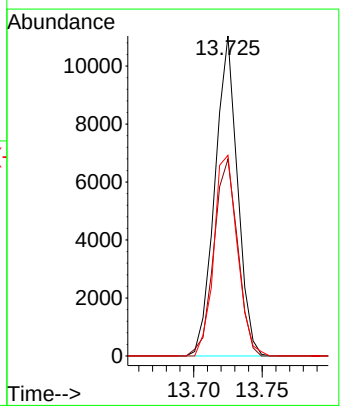


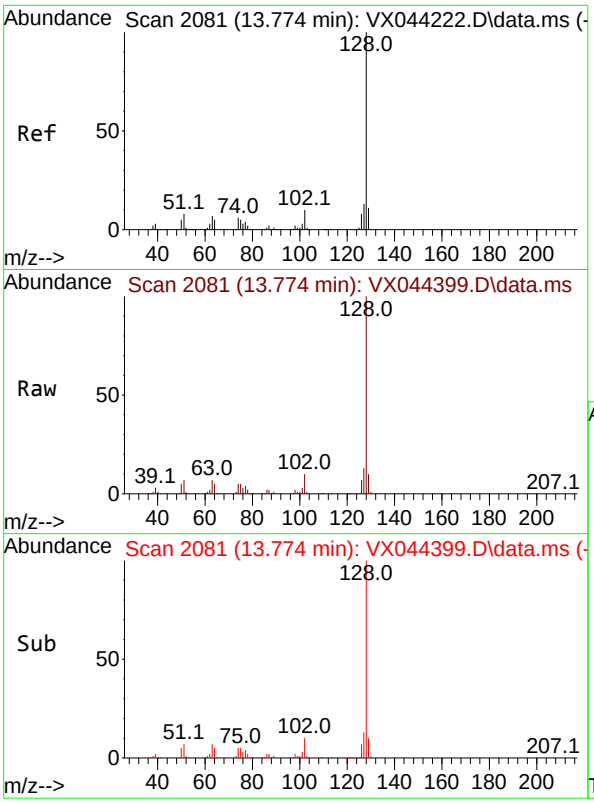


#94
Hexachlorobutadiene
Concen: 19.666 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:225 Resp: 12669

Ion	Ratio	Lower	Upper
225	100		
223	64.7	30.8	92.4
227	65.3	32.1	96.3



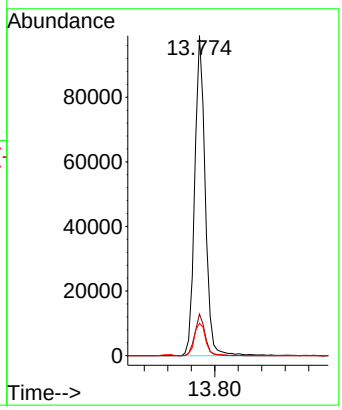


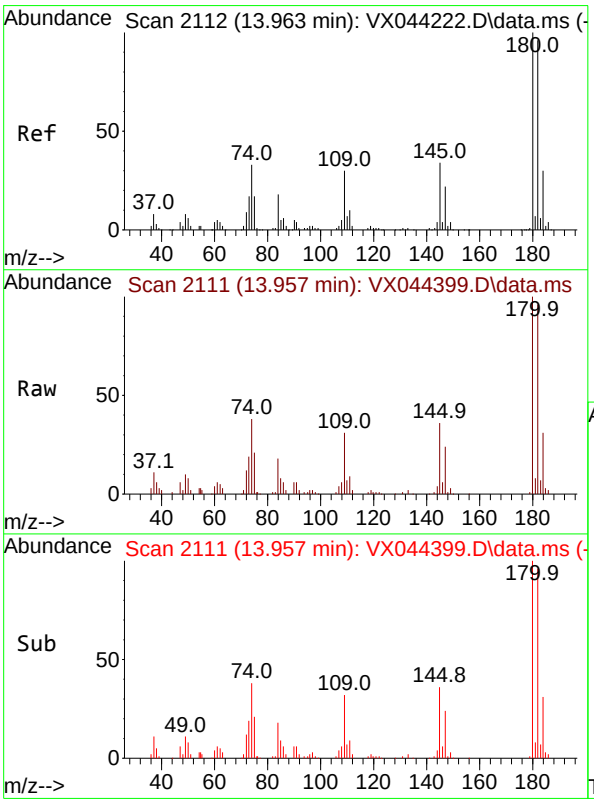
#95
Naphthalene
Concen: 19.638 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS02

Tgt Ion:128 Resp: 122767

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	11.0	9.0	13.4

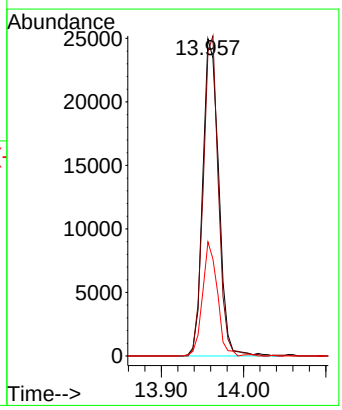




#96
1,2,3-Trichlorobenzene
Concen: 19.819 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044399.D
Acq: 18 Dec 2024 23:22

Tgt Ion:180 Resp: 33666

Ion	Ratio	Lower	Upper
180	100		
182	95.7	48.0	144.0
145	33.3	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044401.D
Acq On : 19 Dec 2024 00:13
Operator : JC/MD
Sample : P5317-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Quant Time: Dec 19 05:06:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.550	168	107762	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	195811	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	176405	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	72683	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.946	65	84423	44.682	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 89.360%				
35) Dibromofluoromethane	5.379	113	64929	47.877	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.760%				
50) Toluene-d8	8.647	98	243041	53.120	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.240%				
62) 4-Bromofluorobenzene	11.079	95	77802	48.665	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.320%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	1030	0.618	ug/l		76
3) Chloromethane	1.301	50	366	0.230	ug/l	#	42
5) Bromomethane	1.593	94	854	0.725	ug/l	#	72
7) Trichlorofluoromethane	1.868	101	658	0.202	ug/l		98
9) 1,1,2-Trichlorotrifluo...	2.319	101	18563	14.116	ug/l		95
11) Tert butyl alcohol	2.941	59	960	3.605	ug/l	#	71
12) 1,1-Dichloroethene	2.306	96	1092	0.904	ug/l		99
13) Acrolein	2.239	56	166	0.431	ug/l	#	64
16) Acetone	2.386	43	1335	1.733	ug/l	#	89
17) Carbon Disulfide	2.495	76	993	0.432	ug/l		98
20) Methylene Chloride	2.776	84	431	0.298	ug/l	#	67
21) trans-1,2-Dichloroethene	3.081	96	282	0.220	ug/l	#	37
24) 1,1-Dichloroethane	3.605	63	1566	0.620	ug/l	#	80
27) cis-1,2-Dichloroethene	4.489	96	3021	1.853	ug/l		80
30) Chloroform	5.080	83	586	0.207	ug/l	#	50
32) 1,1,1-Trichloroethane	5.379	97	724	0.307	ug/l	#	24
36) 1,1-Dichloropropene	5.544	75	9659	5.510	ug/l	#	49
38) Carbon Tetrachloride	5.666	117	1231	0.652	ug/l		97
44) Trichloroethene	7.117	130	146402	110.301	ug/l		95
49) 1,4-Dioxane	7.677	88	19	0.697	ug/l	#	1
52) Toluene	8.720	92	969	0.290	ug/l		98
55) 1,1,2-Trichloroethane	9.159	97	559	0.421	ug/l	#	83
60) Dibromochloromethane	9.531	129	44	1.263	ug/l	#	11
67) Ethyl Benzene	10.201	91	1400	0.214	ug/l		98
68) m/p-Xylenes	10.305	106	1159	0.484	ug/l		99
69) o-Xylene	10.646	106	510	0.210	ug/l		77
76) 1,2,3-Trichloropropane	11.079	75	43280	26.669	ug/l	#	36
81) trans-1,4-Dichloro-2-b...	11.079	75	43280	73.473	ug/l	#	4
87) 1,3-Dichlorobenzene	11.975	146	487	0.207	ug/l		86
88) 1,4-Dichlorobenzene	11.975	146	487	0.201	ug/l		86
93) 1,2,4-Trichlorobenzene	13.597	180	368	0.274	ug/l	#	76
94) Hexachlorobutadiene	13.719	225	112	0.208	ug/l	#	33
95) Naphthalene	13.780	128	2273	0.434	ug/l	#	95
96) 1,2,3-Trichlorobenzene	13.963	180	324	0.228	ug/l		67

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044401.D
Acq On : 19 Dec 2024 00:13
Operator : JC/MD
Sample : P5317-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Quant Time: Dec 19 05:06:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

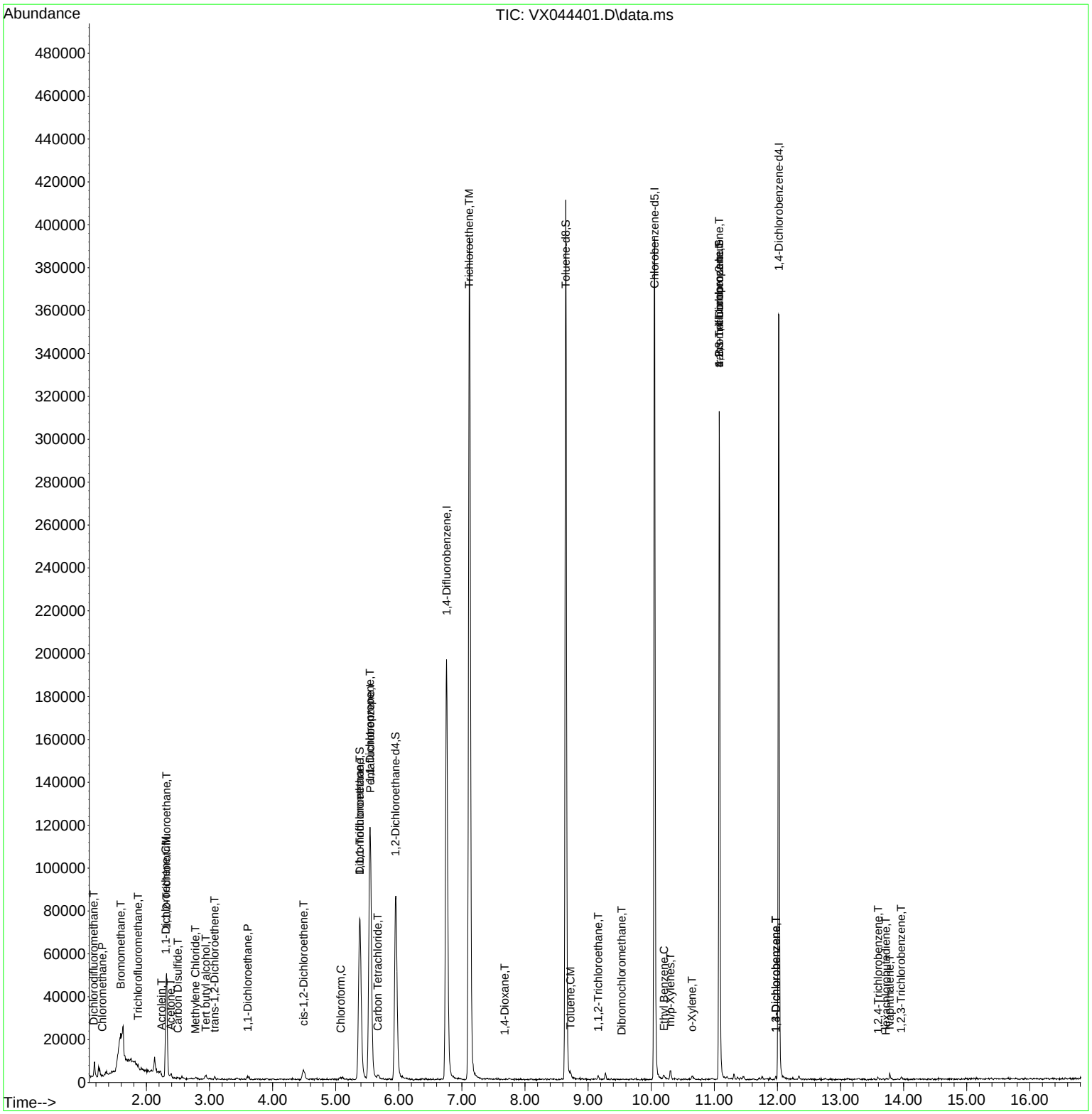
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

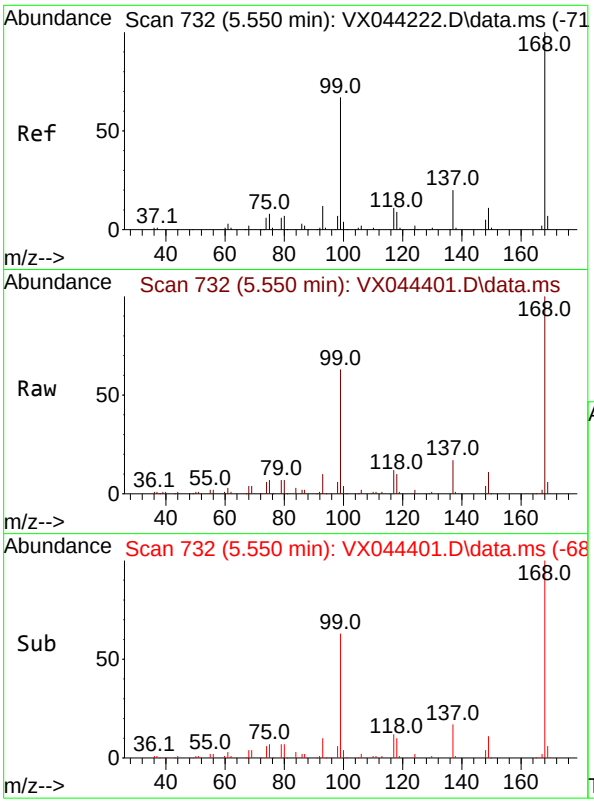
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044401.D
Acq On : 19 Dec 2024 00:13
Operator : JC/MD
Sample : P5317-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Quant Time: Dec 19 05:06:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



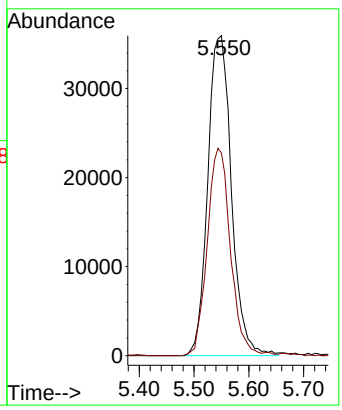


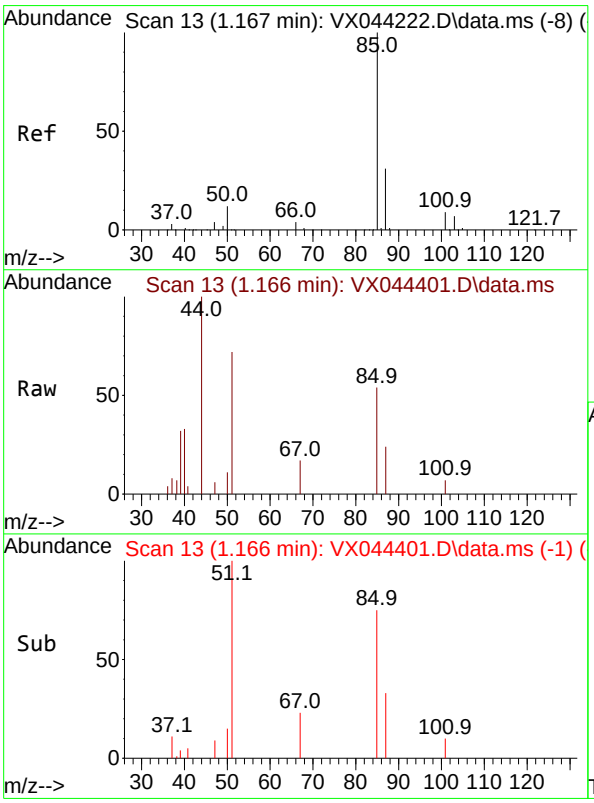
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion:168 Resp: 107762

Ion	Ratio	Lower	Upper
168	100		
99	63.4	53.4	80.0

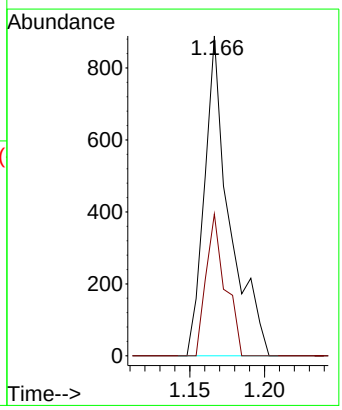


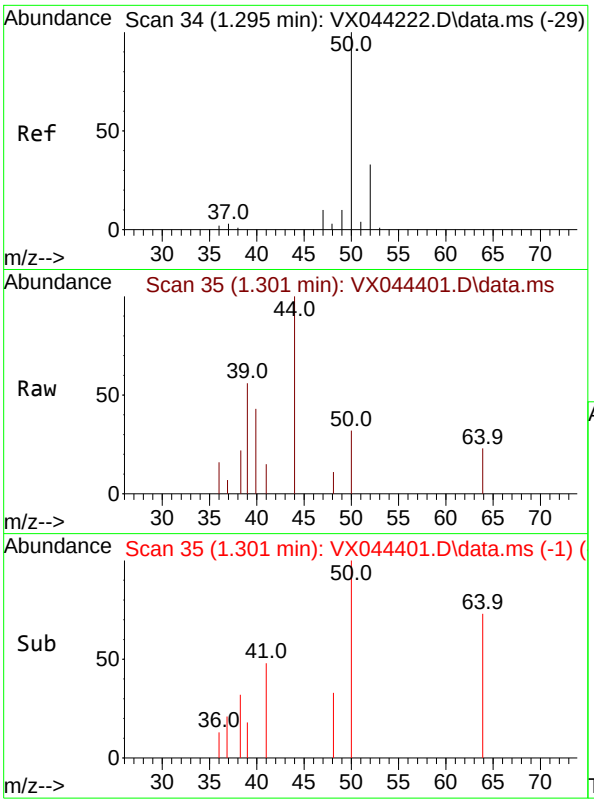


#2
Dichlorodifluoromethane
Concen: 0.618 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 85 Resp: 1030

Ion	Ratio	Lower	Upper
85	100		
87	44.3	15.4	46.4



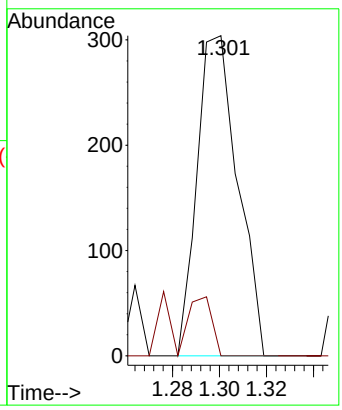


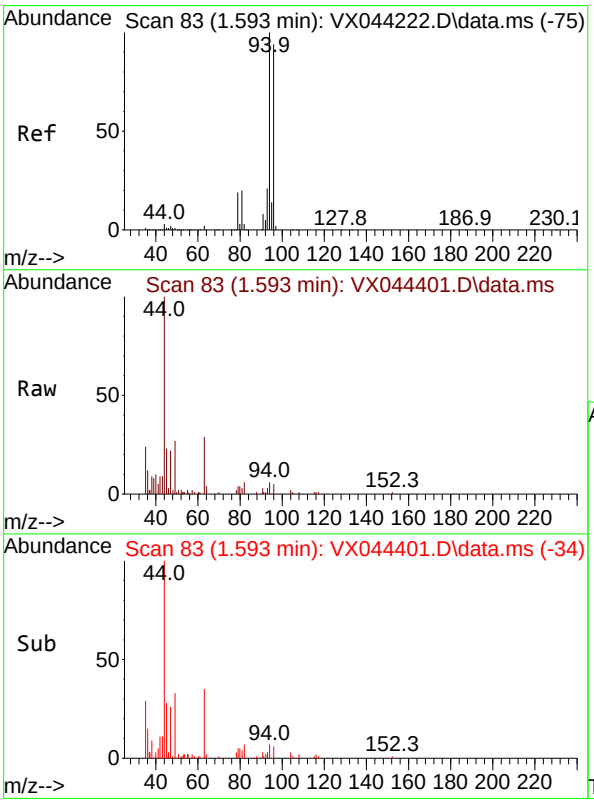
#3
Chloromethane
Concen: 0.230 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion: 50 Resp: 366

Ion	Ratio	Lower	Upper
50	100		
52	0.0	26.5	39.7#

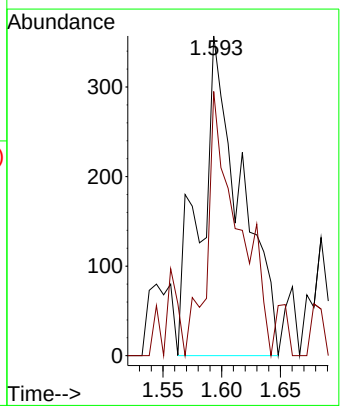


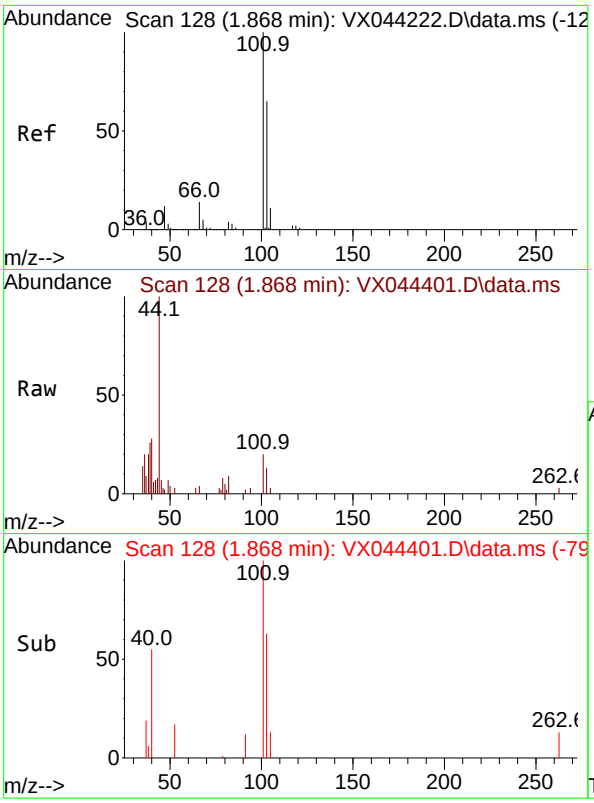


#5
Bromomethane
Concen: 0.725 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 94 Resp: 854

Ion	Ratio	Lower	Upper
94	100		
96	66.9	74.9	112.3#



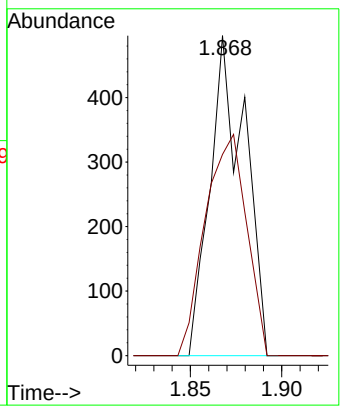


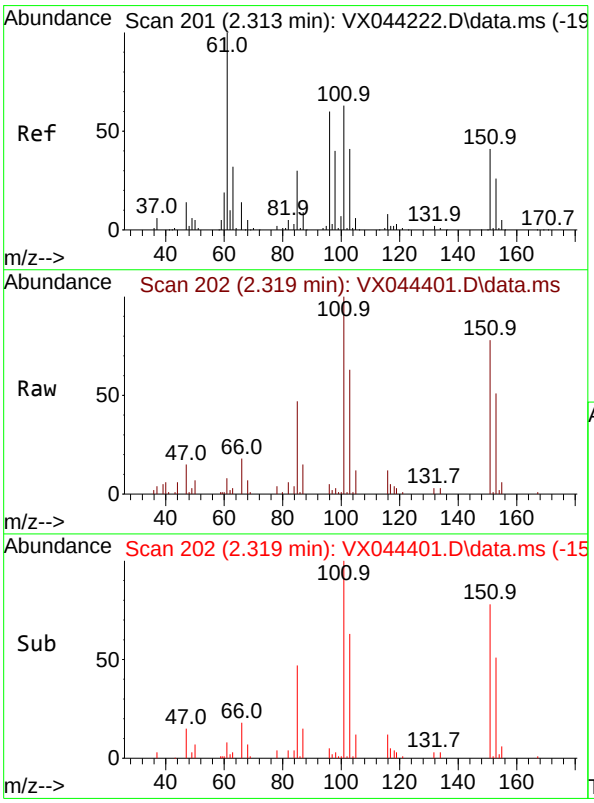
#7
Trichlorofluoromethane
Concen: 0.202 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion:101 Resp: 658

Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.8	77.8

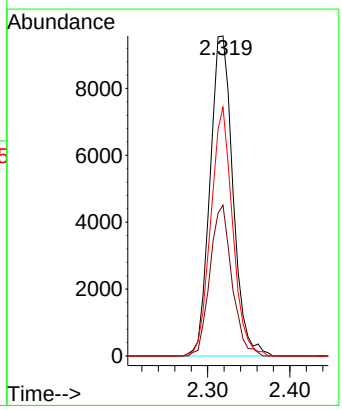


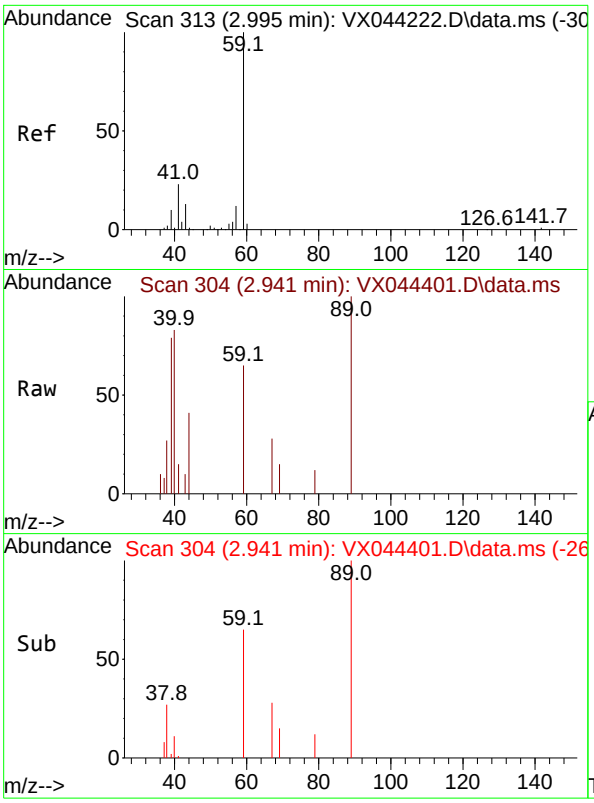


#9
1,1,2-Trichlorotrifluoroethane
Concen: 14.116 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion:101 Resp: 18563

Ion	Ratio	Lower	Upper
101	100		
85	45.1	38.5	57.7
151	74.0	55.8	83.6



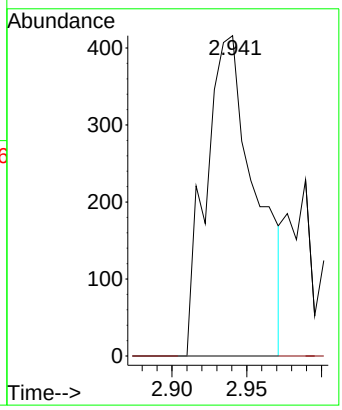


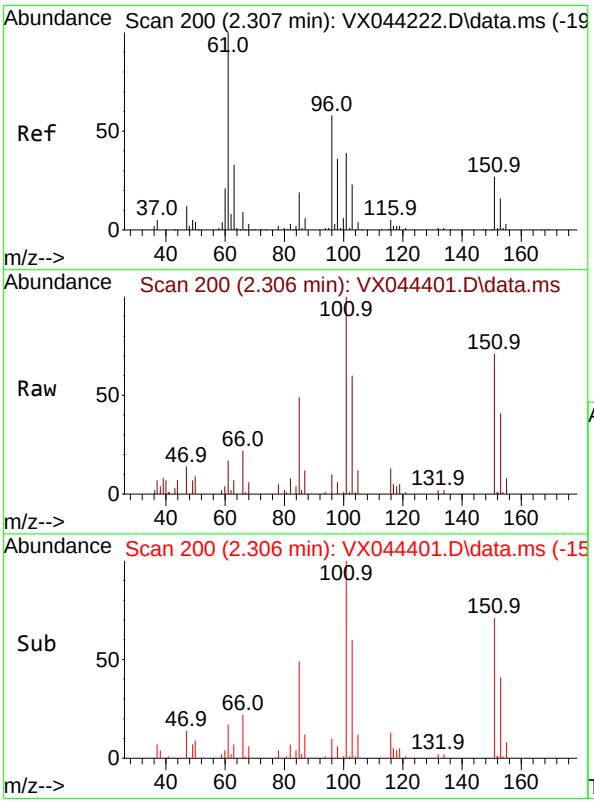
#11
Tert butyl alcohol
Concen: 3.605 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.055 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion: 59 Resp: 960

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.8	13.2#

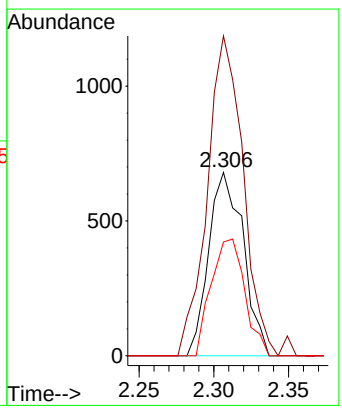


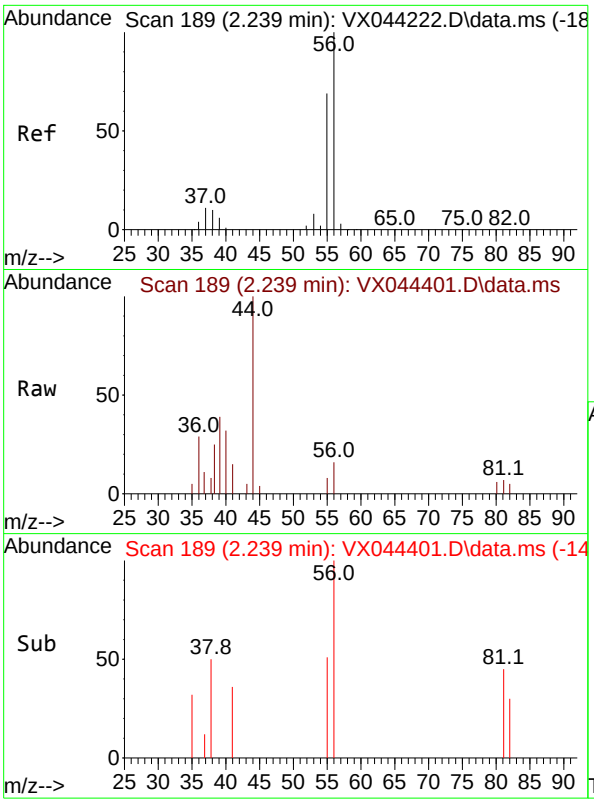


#12
1,1-Dichloroethene
Concen: 0.904 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 96 Resp: 1092

Ion	Ratio	Lower	Upper
96	100		
61	174.4	138.0	207.0
98	62.1	50.0	75.0



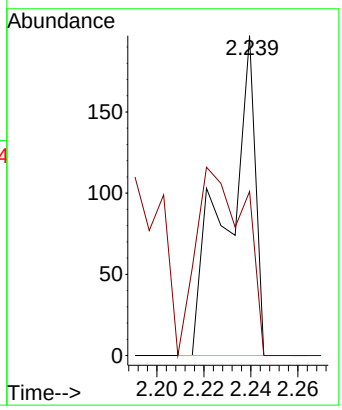


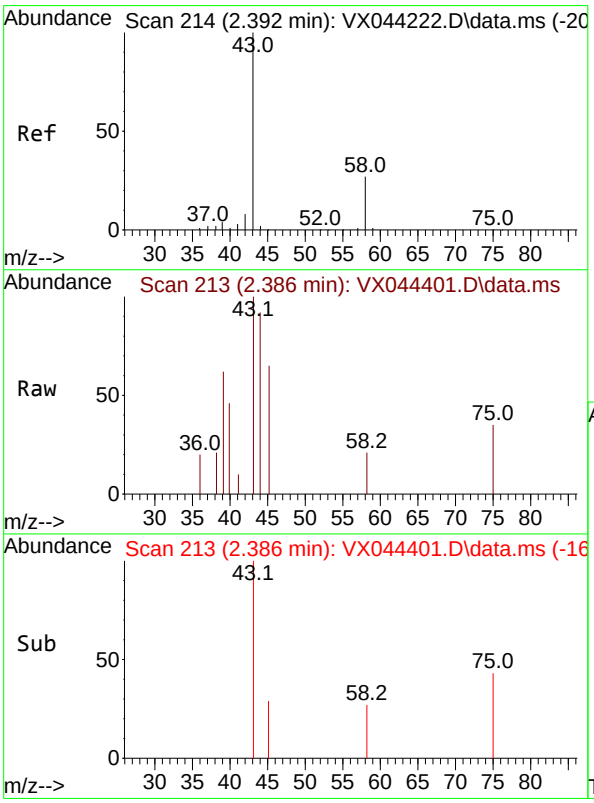
#13
Acrolein
Concen: 0.431 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion: 56 Resp: 166

Ion	Ratio	Lower	Upper
56	100		
55	100.6	56.6	84.8#

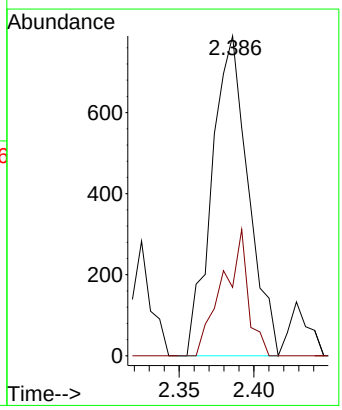


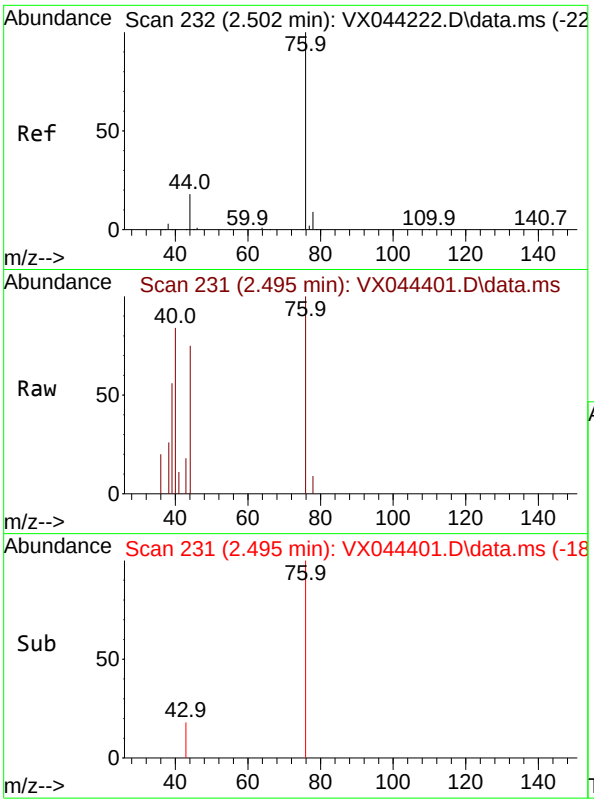


#16
Acetone
Concen: 1.733 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 43 Resp: 1335

Ion	Ratio	Lower	Upper
43	100		
58	21.4	21.6	32.4#



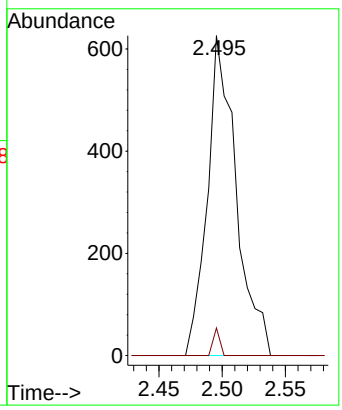


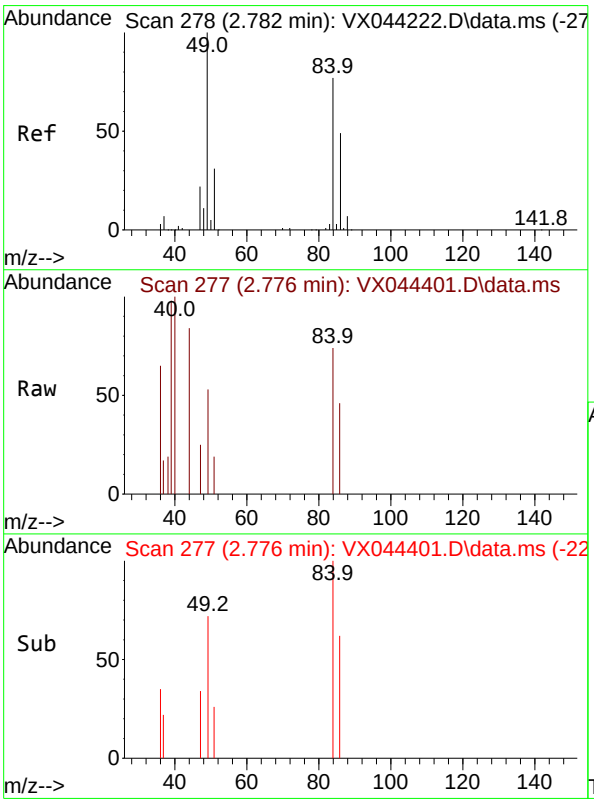
#17
Carbon Disulfide
Concen: 0.432 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion: 76 Resp: 993

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.4	11.0

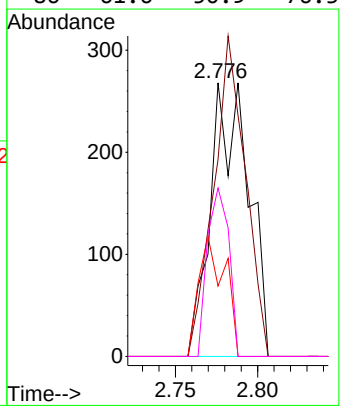


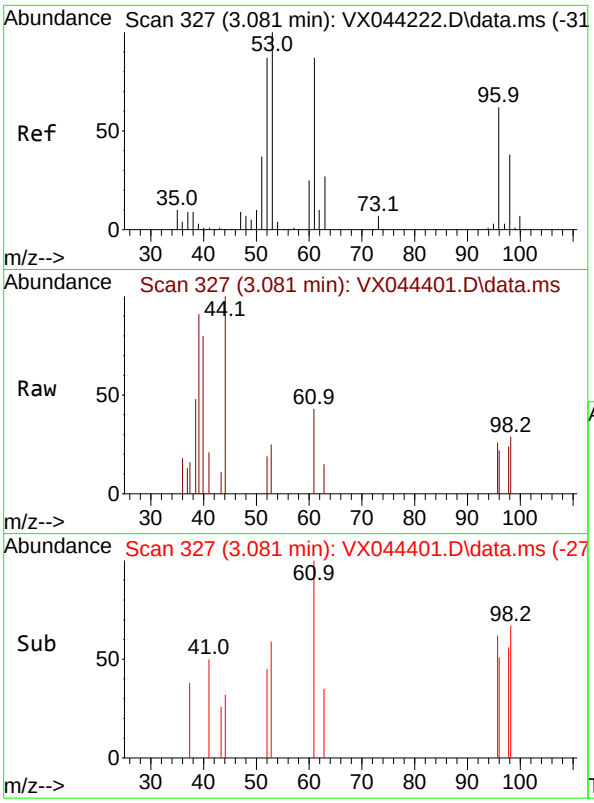


#20
Methylene Chloride
Concen: 0.298 ug/l
RT: 2.776 min Scan# 277
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 84 Resp: 431

Ion	Ratio	Lower	Upper
84	100		
49	72.0	104.2	156.4#
51	25.7	32.2	48.4#
86	61.6	50.9	76.3



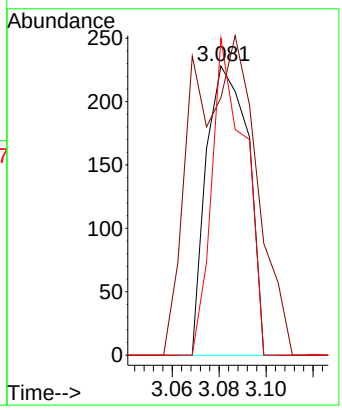


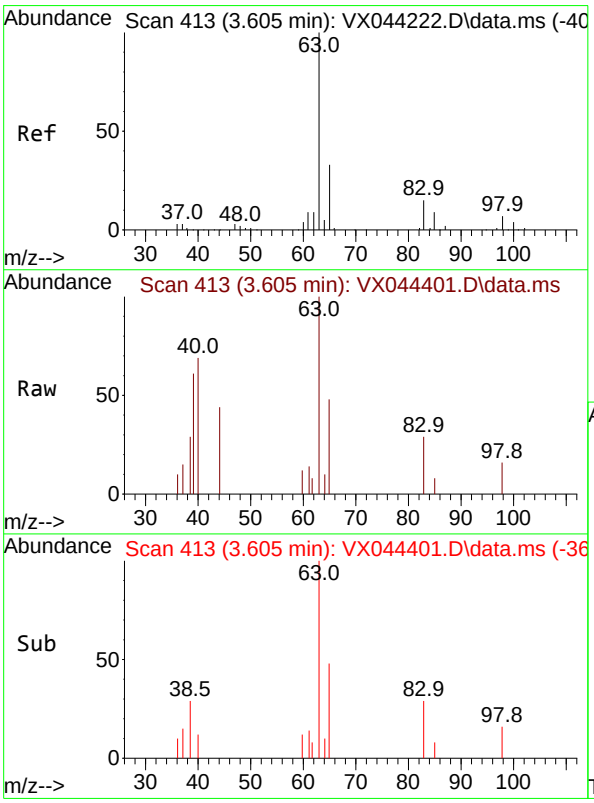
#21
trans-1,2-Dichloroethene
Concen: 0.220 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion: 96 Resp: 282

Ion	Ratio	Lower	Upper
96	100		
61	64.0	112.0	168.0#
98	109.6	48.8	73.2#

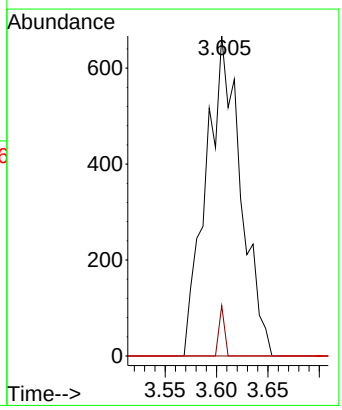


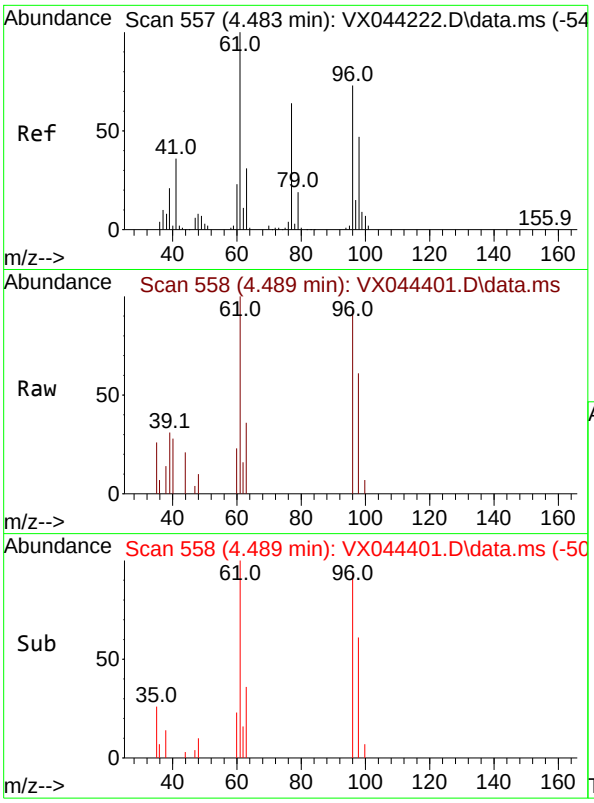


#24
1,1-Dichloroethane
Concen: 0.620 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 63 Resp: 1566

Ion	Ratio	Lower	Upper
63	100		
98	15.7	3.6	10.8#
100	0.0	2.1	6.3#



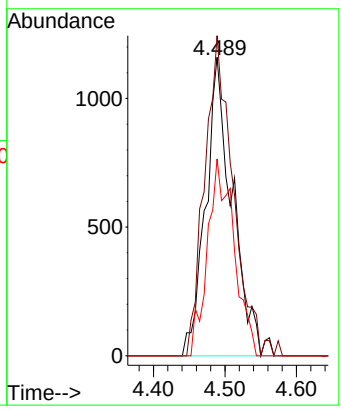


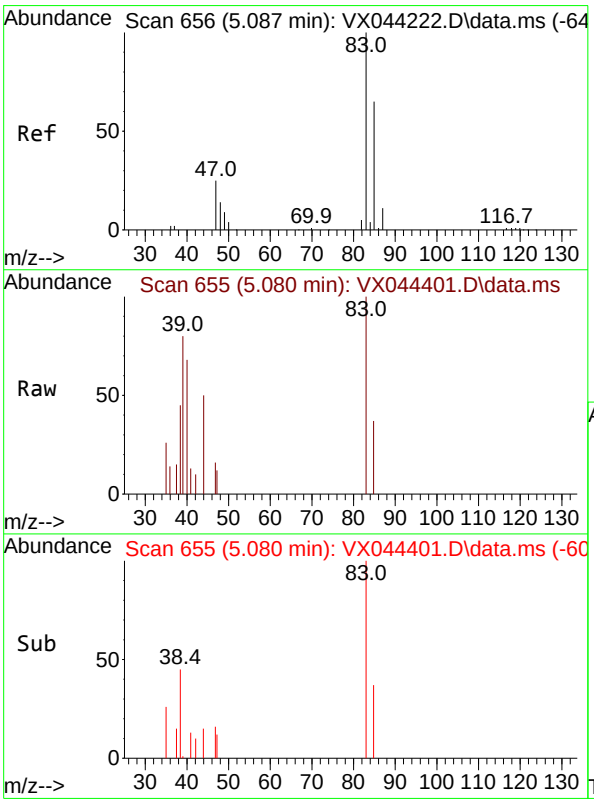
#27
cis-1,2-Dichloroethene
Concen: 1.853 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion: 96 Resp: 3021

Ion	Ratio	Lower	Upper
96	100		
61	114.0	0.0	299.0
98	65.1	0.0	129.0

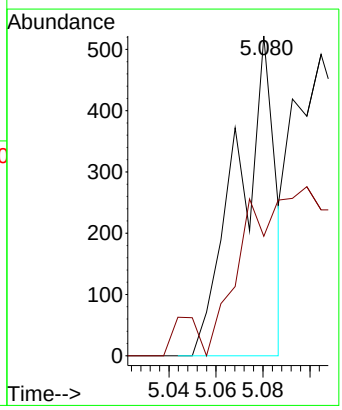


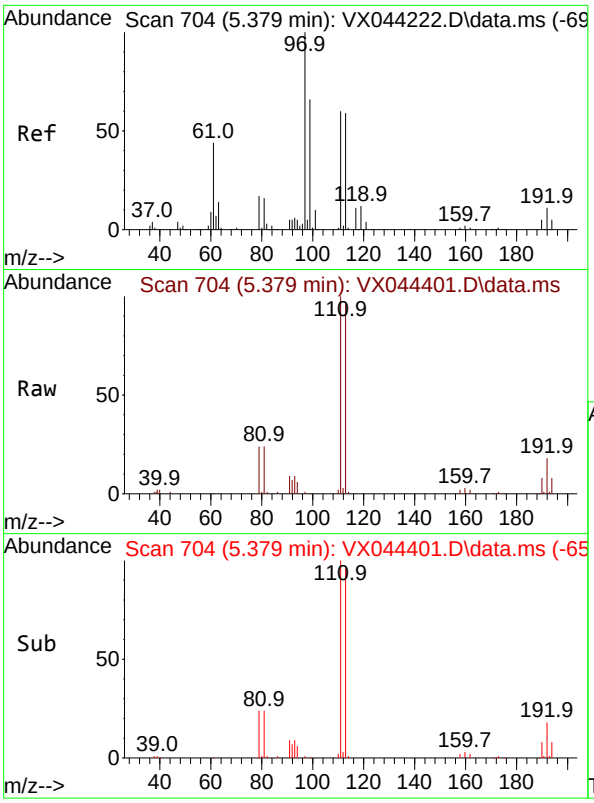


#30
Chloroform
Concen: 0.207 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 83 Resp: 586

Ion	Ratio	Lower	Upper
83	100		
85	25.3	51.6	77.4#



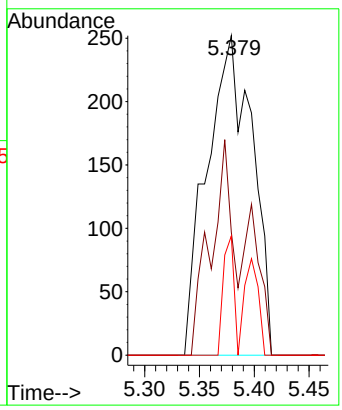


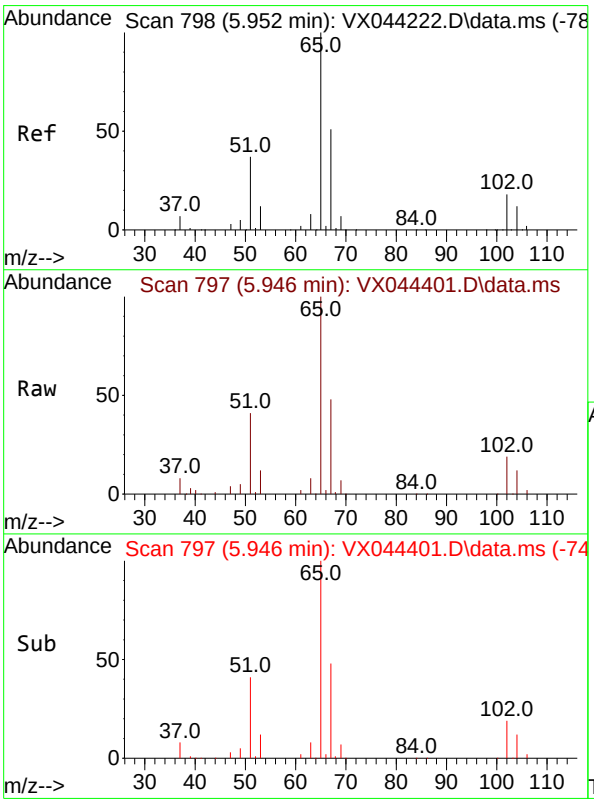
#32
1,1,1-Trichloroethane
Concen: 0.307 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion: 97 Resp: 724

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.8	76.2#
61	0.0	35.2	52.8#

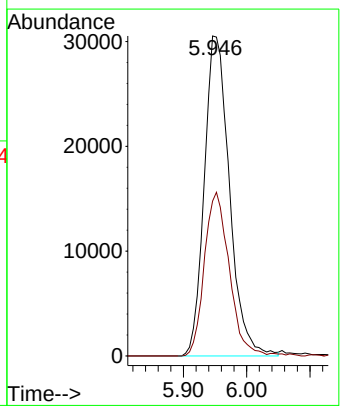


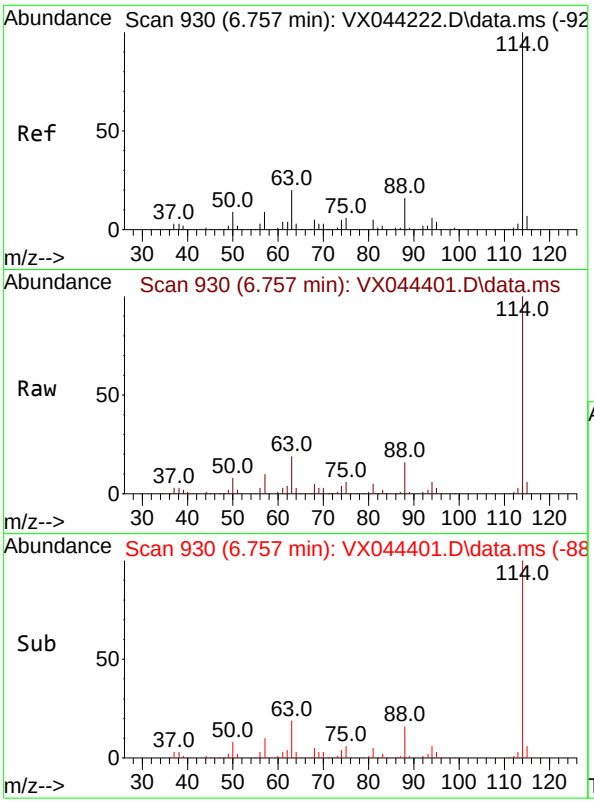


#33
1,2-Dichloroethane-d4
Concen: 44.682 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 65 Resp: 84423

Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	101.6



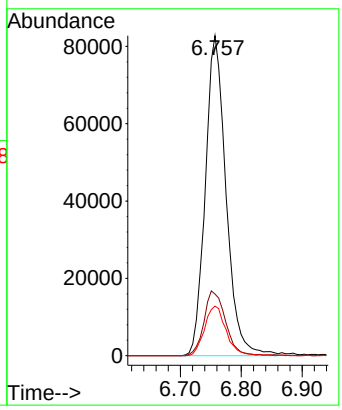


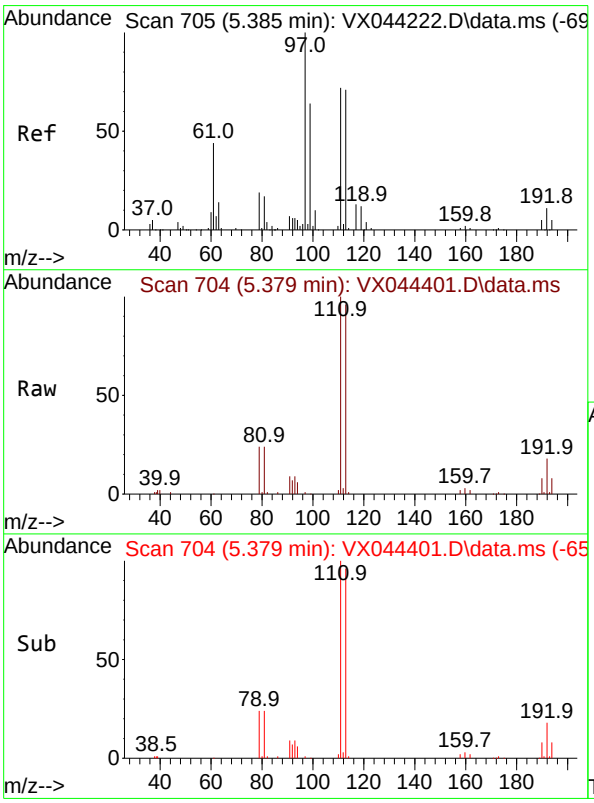
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion:114 Resp: 195811

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	40.6
88	15.5	0.0	31.8

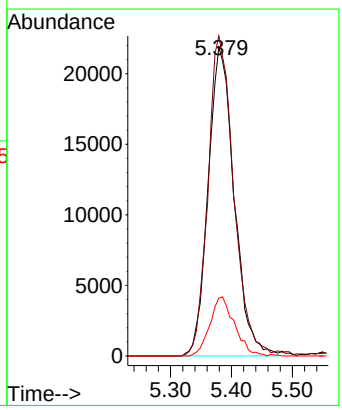


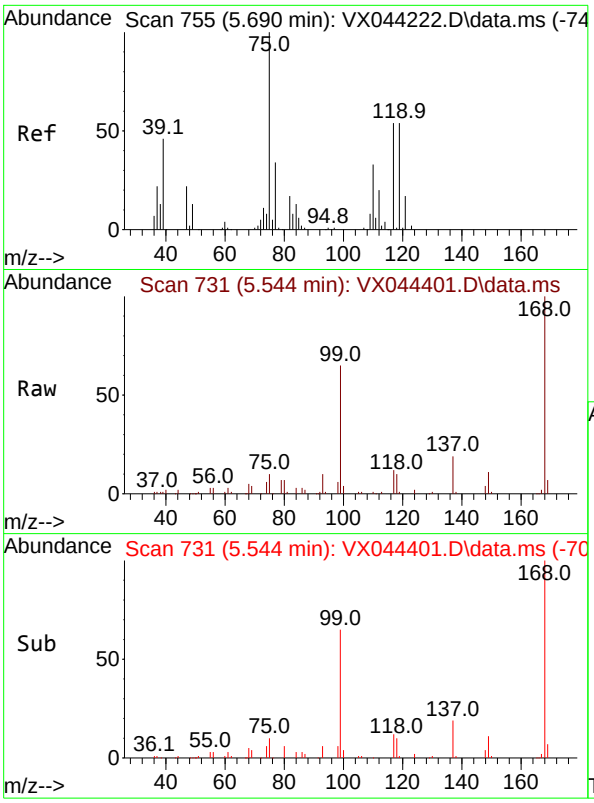


#35
Dibromofluoromethane
Concen: 47.877 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion:113 Resp: 64929

Ion	Ratio	Lower	Upper
113	100		
111	102.5	80.4	120.6
192	18.1	13.3	19.9



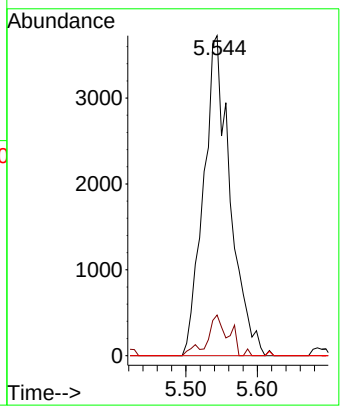


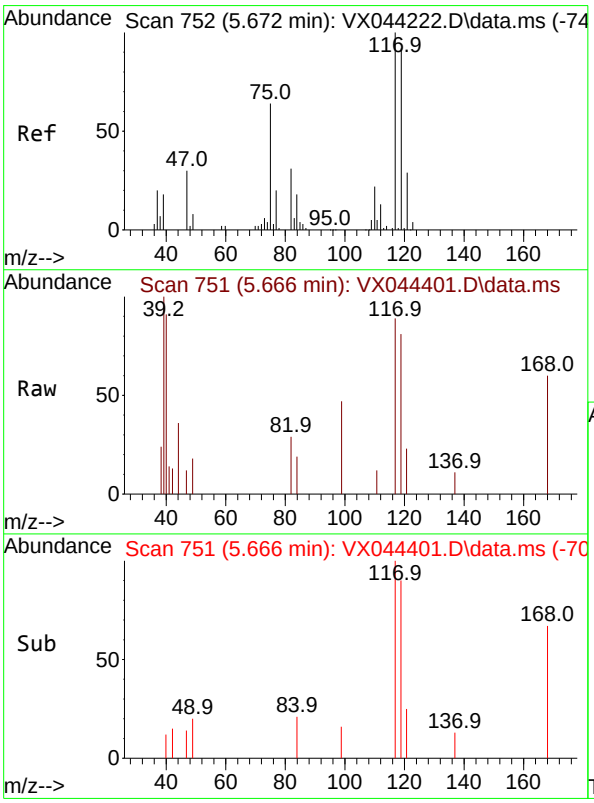
#36
1,1-Dichloropropene
Concen: 5.510 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.146 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion: 75 Resp: 9659

Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.3	51.7#
77	0.0	25.4	38.0#

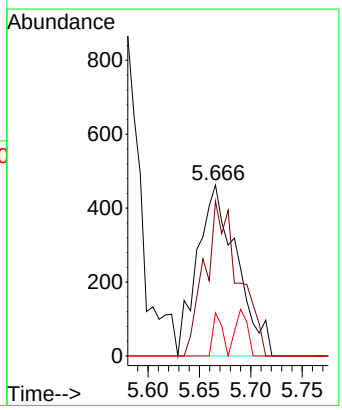


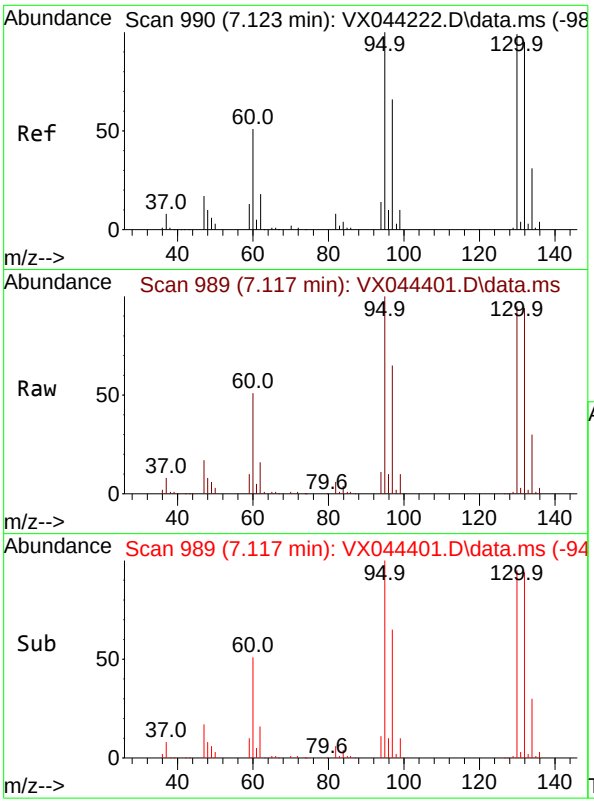


#38
Carbon Tetrachloride
Concen: 0.652 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion:117 Resp: 1231

Ion	Ratio	Lower	Upper
117	100		
119	90.5	74.2	111.4
121	25.3	23.0	34.6



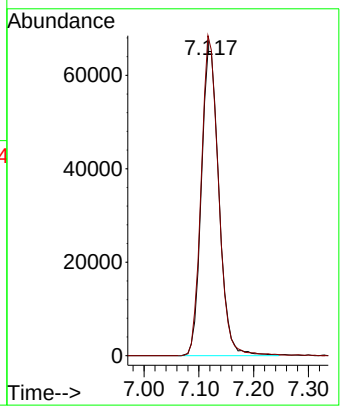


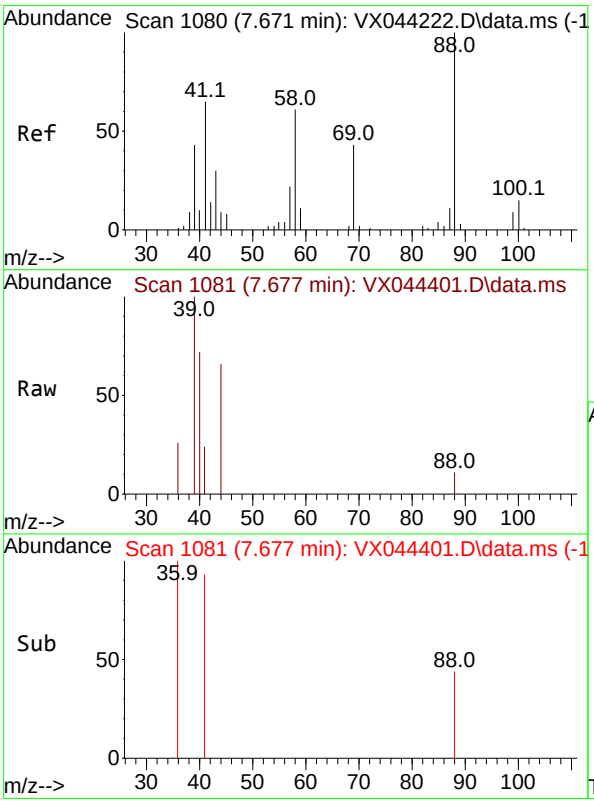
#44
Trichloroethene
Concen: 110.301 ug/l
RT: 7.117 min Scan# 9
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion:130 Resp: 146402

Ion	Ratio	Lower	Upper
130	100		
95	105.2	0.0	201.4

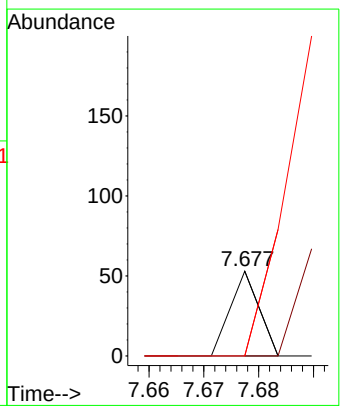


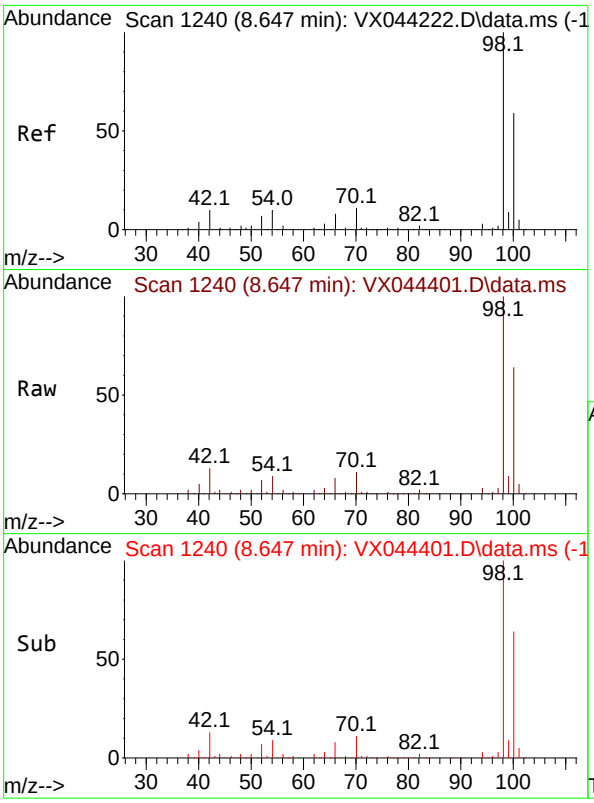


#49
1,4-Dioxane
Concen: 0.697 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 88 Resp: 19

Ion	Ratio	Lower	Upper
88	100		
43	131.6	27.1	40.7#
58	705.3	41.0	61.4#



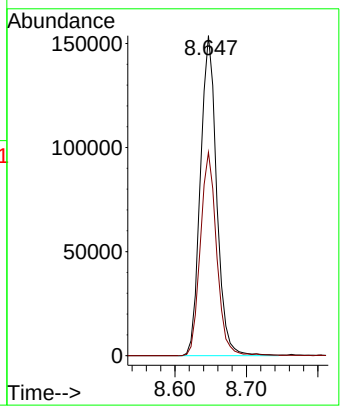


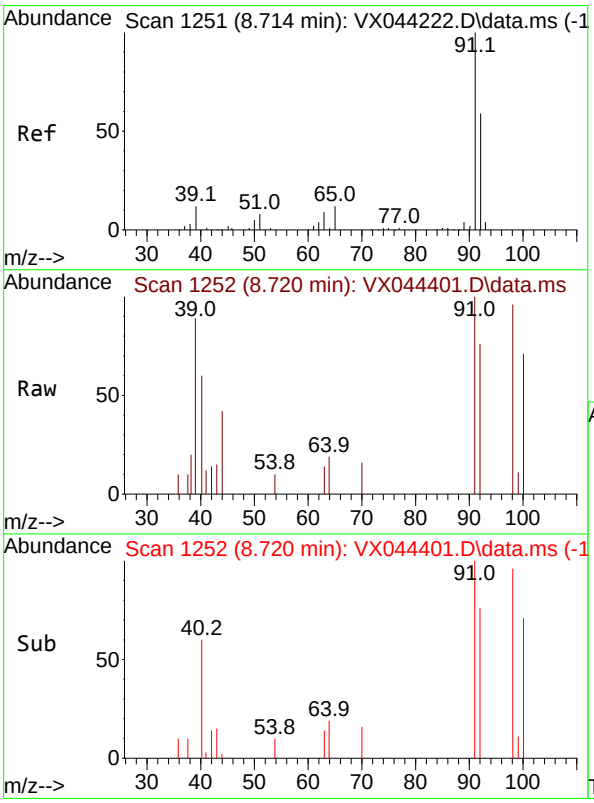
#50
Toluene-d8
Concen: 53.120 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion: 98 Resp: 243041

Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.5	77.3

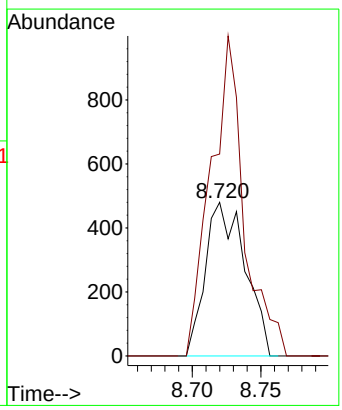


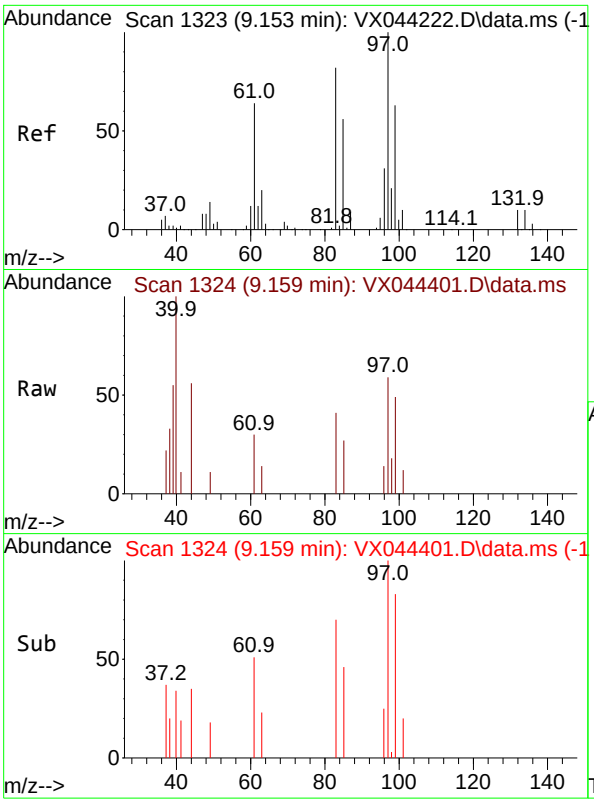


#52
Toluene
Concen: 0.290 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 92 Resp: 969

Ion	Ratio	Lower	Upper
92	100		
91	174.4	137.0	205.6



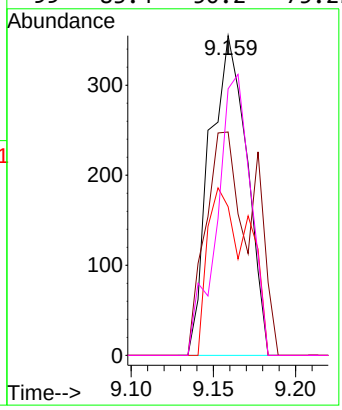


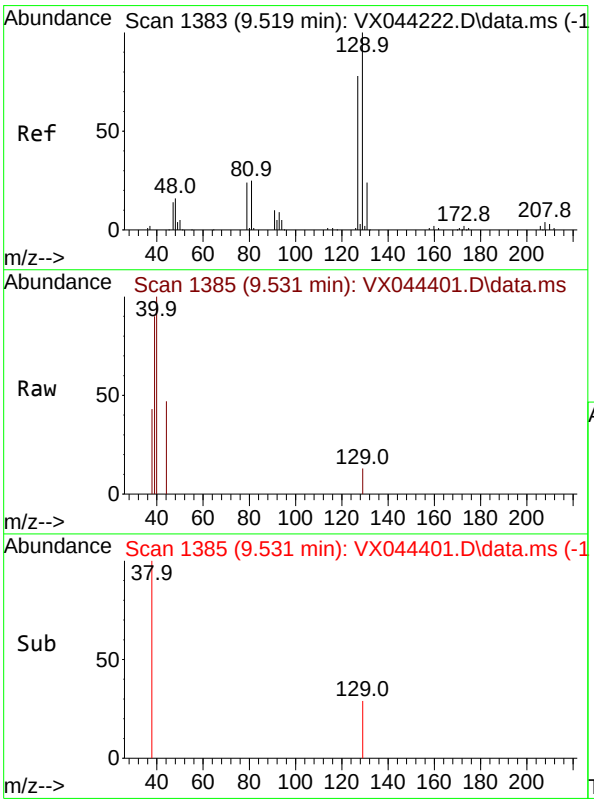
#55
1,1,2-Trichloroethane
Concen: 0.421 ug/l
RT: 9.159 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion: 97 Resp: 559

Ion	Ratio	Lower	Upper
97	100		
83	69.9	65.3	97.9
85	46.5	44.6	67.0
99	83.4	50.2	75.2#

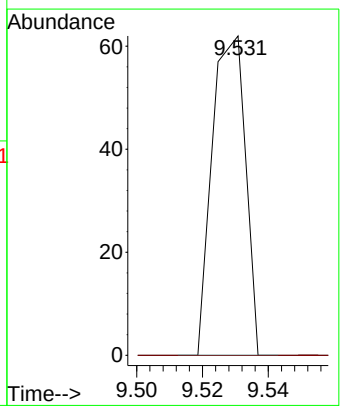


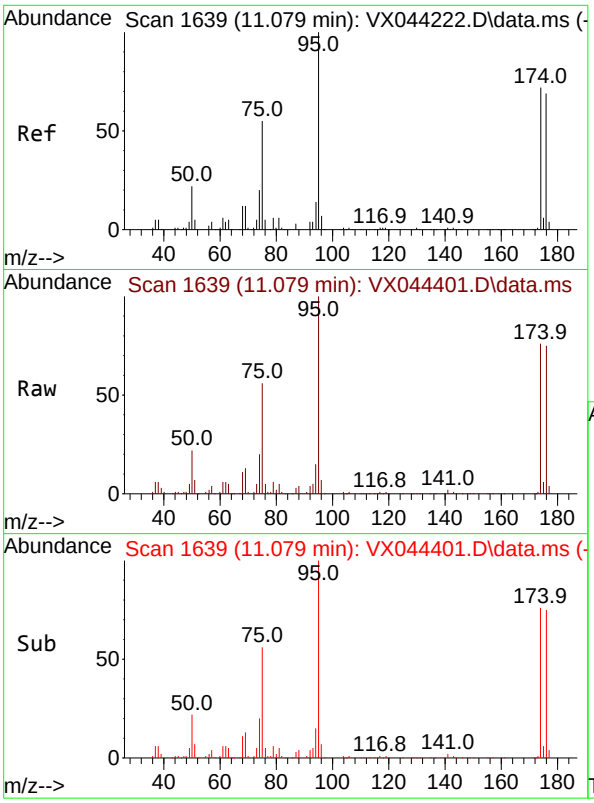


#60
Dibromochloromethane
Concen: 1.263 ug/l
RT: 9.531 min Scan# 1385
Delta R.T. 0.012 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion:129 Resp: 44

Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.5	115.3#



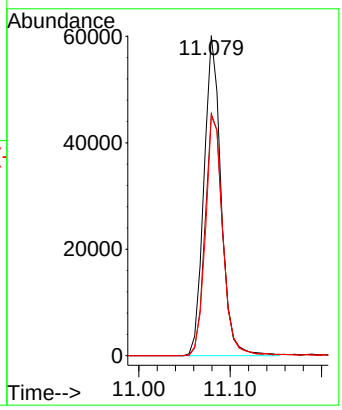


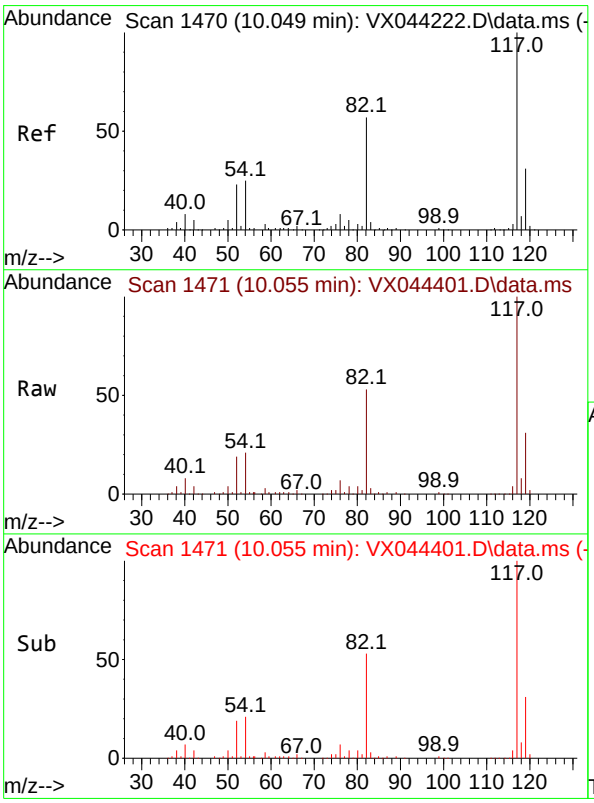
#62
4-Bromofluorobenzene
Concen: 48.665 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion: 95 Resp: 77802

Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	145.8
176	76.2	0.0	137.8

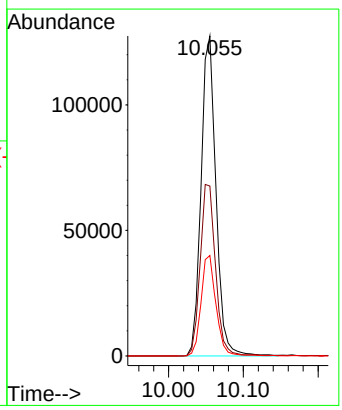


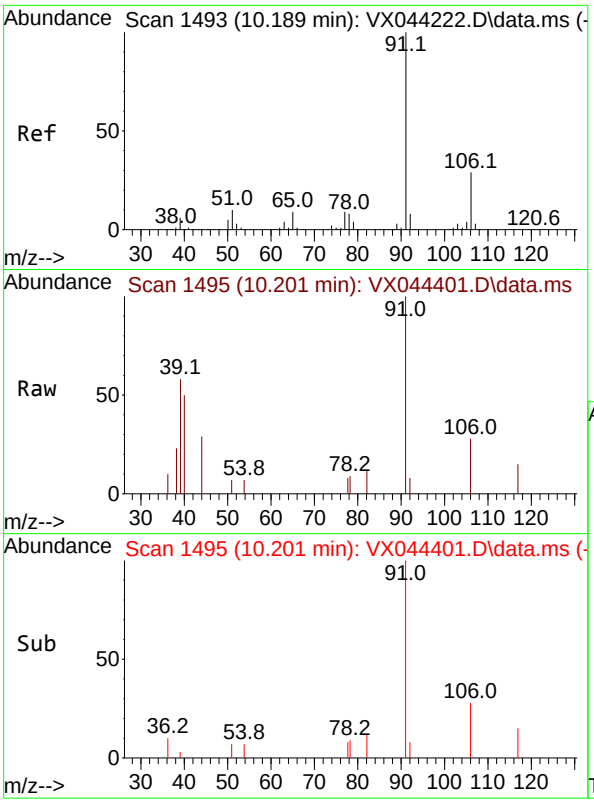


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion:117 Resp: 176405

Ion	Ratio	Lower	Upper
117	100		
82	53.1	45.8	68.8
119	31.4	25.0	37.4



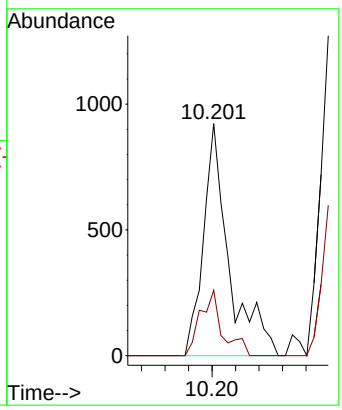


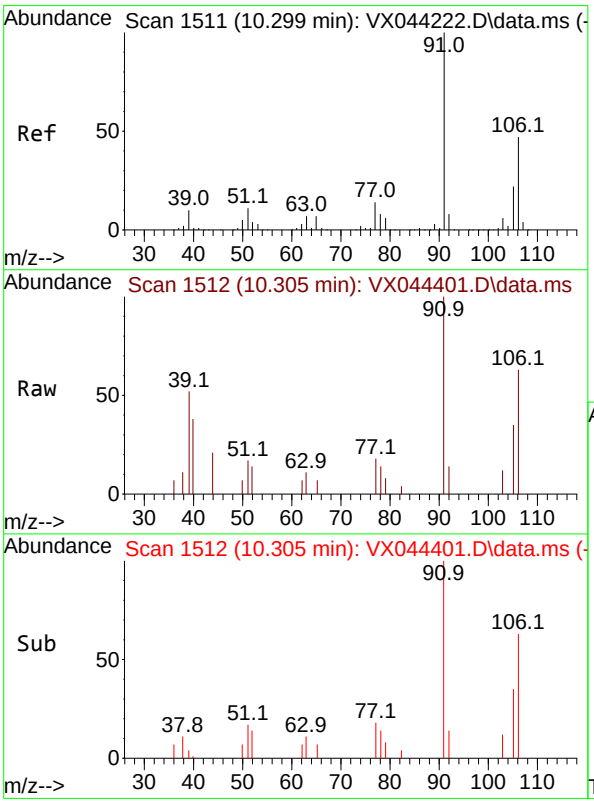
#67
Ethyl Benzene
Concen: 0.214 ug/l
RT: 10.201 min Scan# 14
Delta R.T. 0.012 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion: 91 Resp: 1400

Ion	Ratio	Lower	Upper
91	100		
106	28.2	23.5	35.3

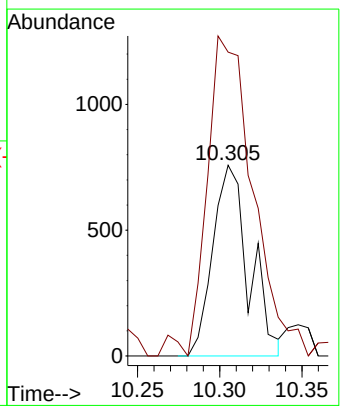


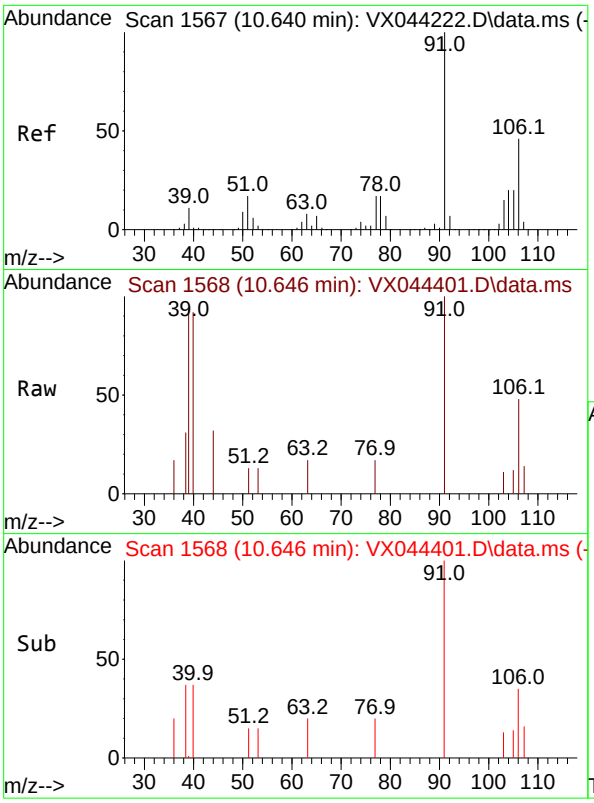


#68
m/p-Xylenes
Concen: 0.484 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion:106 Resp: 1159

Ion	Ratio	Lower	Upper
106	100		
91	214.6	170.2	255.2



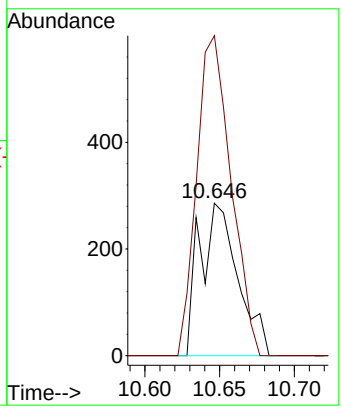


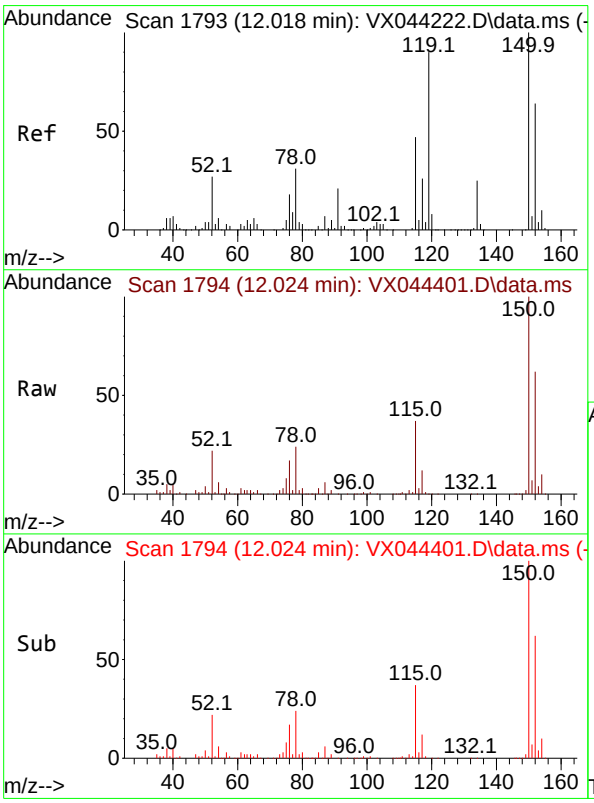
#69
o-Xylene
Concen: 0.210 ug/l
RT: 10.646 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion:106 Resp: 510

Ion	Ratio	Lower	Upper
106	100		
91	187.8	112.3	337.0

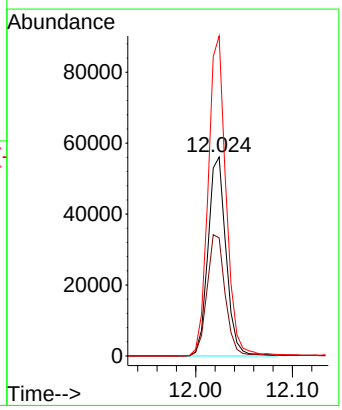


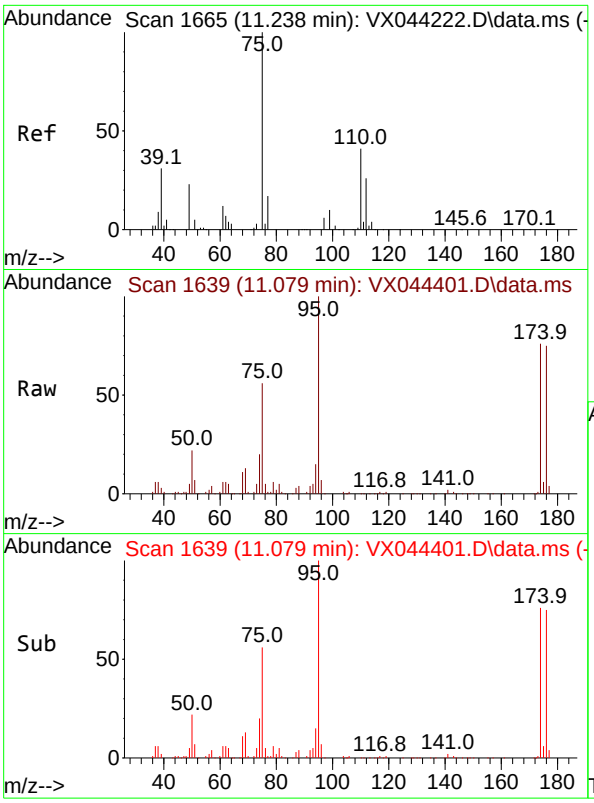


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion:152 Resp: 72683

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.5	133.3
150	159.9	0.0	353.8



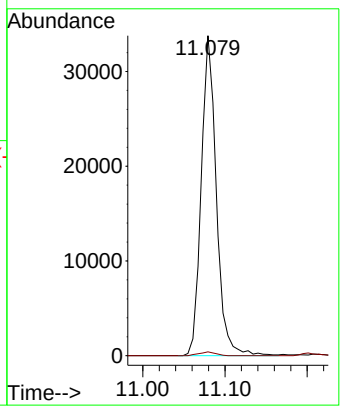


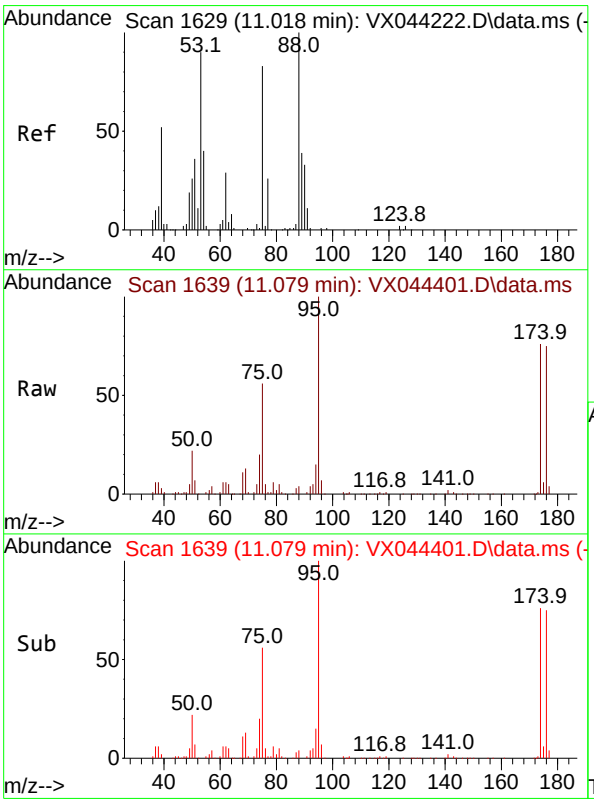
#76
1,2,3-Trichloropropane
Concen: 26.669 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.159 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion: 75 Resp: 43280

Ion	Ratio	Lower	Upper
75	100		
77	1.3	20.9	62.7#

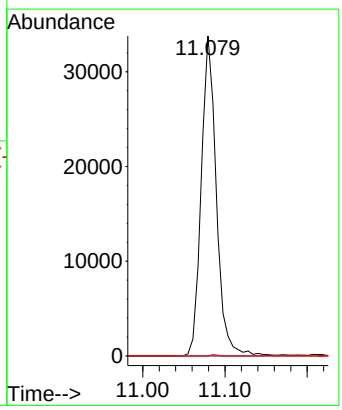


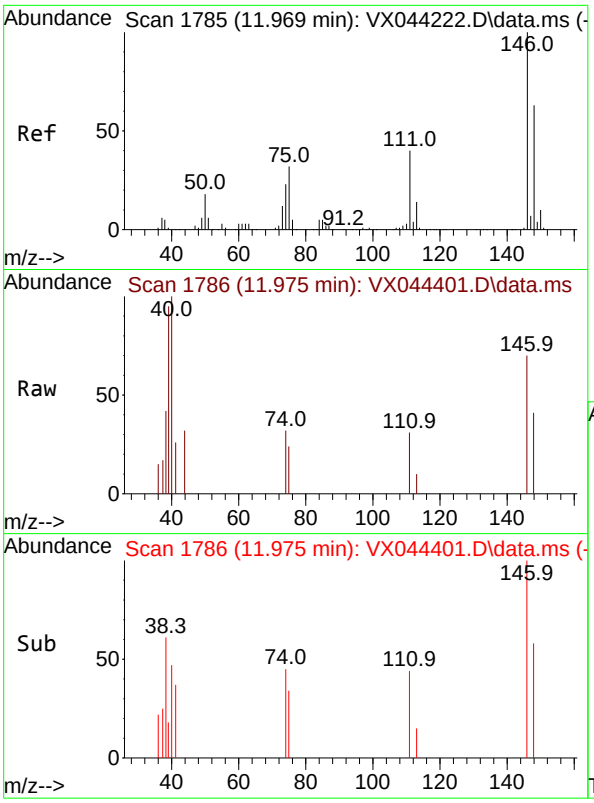


#81
trans-1,4-Dichloro-2-butene
Concen: 73.473 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion: 75 Resp: 43280

Ion	Ratio	Lower	Upper
75	100		
53	0.0	93.6	140.4#
89	0.2	37.3	55.9#



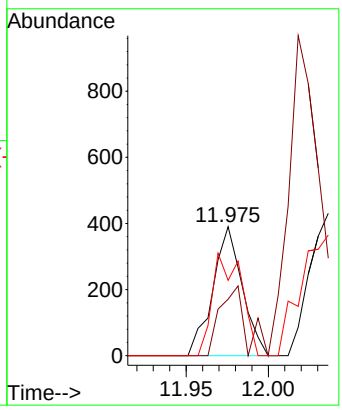


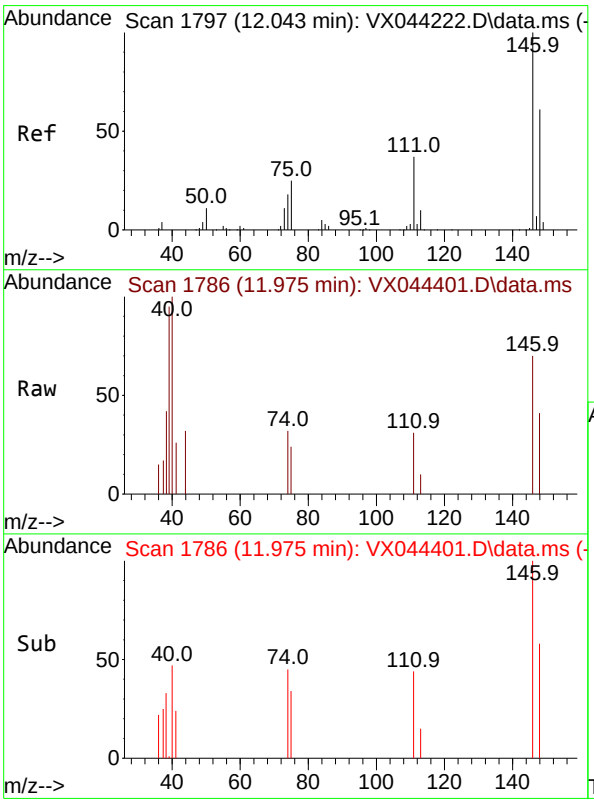
#87
1,3-Dichlorobenzene
Concen: 0.207 ug/l
RT: 11.975 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion:146 Resp: 487

Ion	Ratio	Lower	Upper
146	100		
111	47.8	21.4	64.2
148	78.0	31.7	95.1

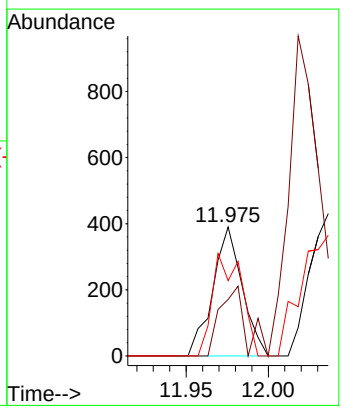


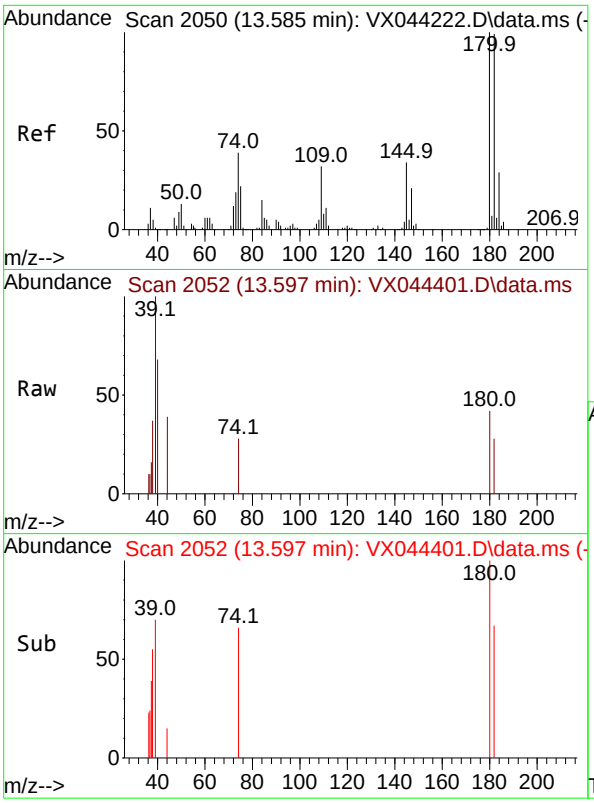


#88
1,4-Dichlorobenzene
Concen: 0.201 ug/l
RT: 11.975 min Scan# 1786
Delta R.T. -0.067 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion:146 Resp: 487

Ion	Ratio	Lower	Upper
146	100		
111	47.8	21.0	63.0
148	78.0	32.3	96.8



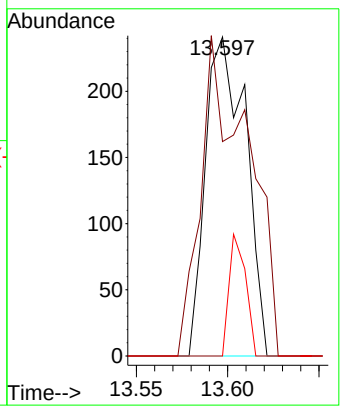


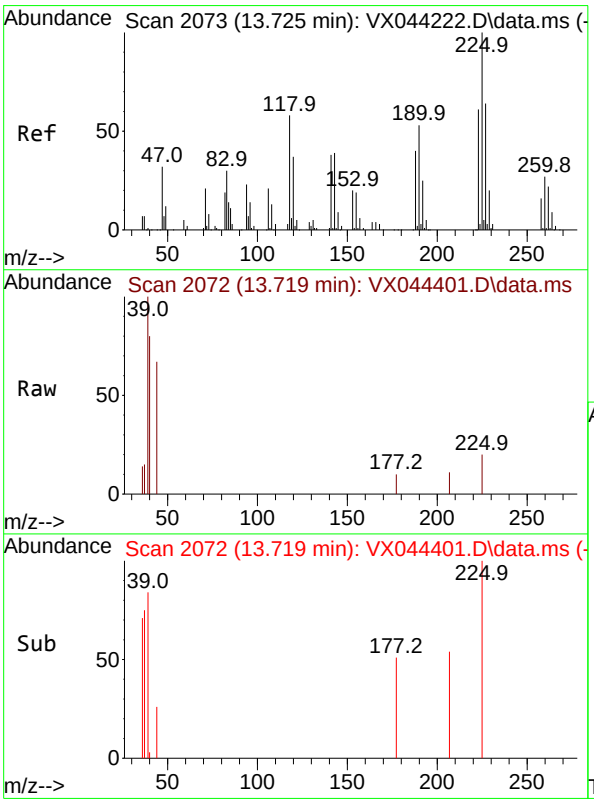
#93
1,2,4-Trichlorobenzene
Concen: 0.274 ug/l
RT: 13.597 min Scan# 2
Delta R.T. 0.012 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion:180 Resp: 368

Ion	Ratio	Lower	Upper
180	100		
182	117.1	48.0	144.2
145	15.8	16.6	49.7#

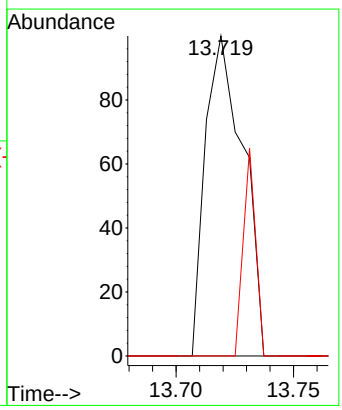


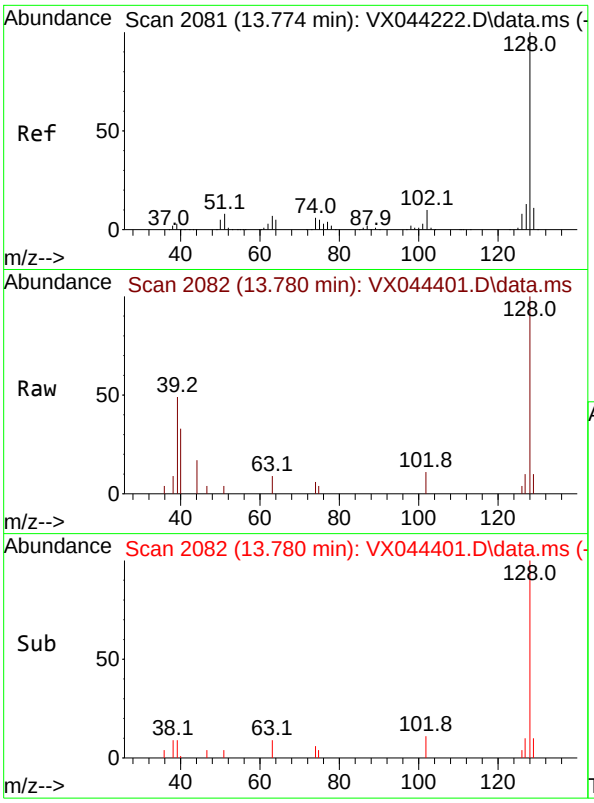


#94
Hexachlorobutadiene
Concen: 0.208 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion:225 Resp: 112

Ion	Ratio	Lower	Upper
225	100		
223	0.0	30.8	92.4#
227	21.4	32.1	96.3#



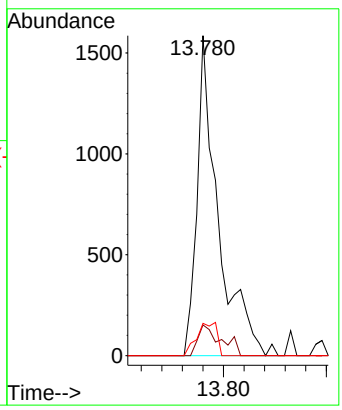


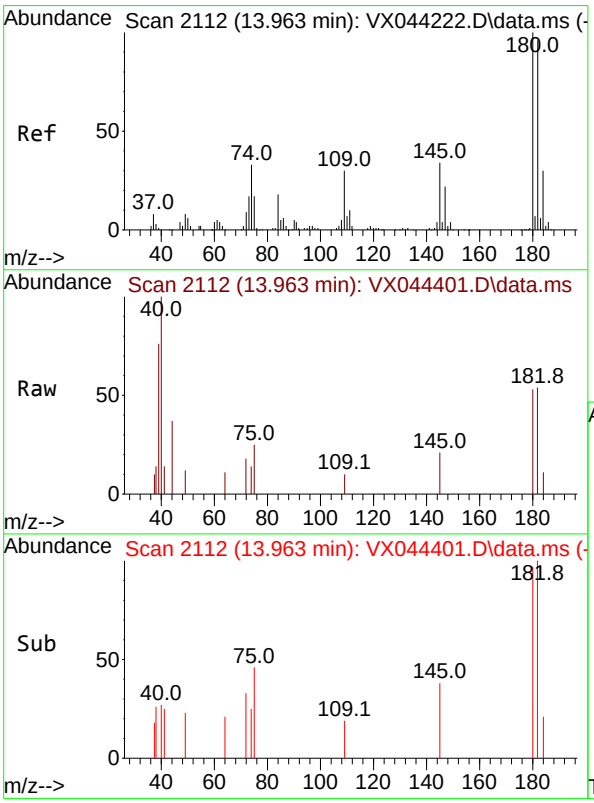
#95
Naphthalene
Concen: 0.434 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE114D2-20241216

Tgt Ion:128 Resp: 2273

Ion	Ratio	Lower	Upper
128	100		
127	10.4	10.5	15.7#
129	9.8	9.0	13.4

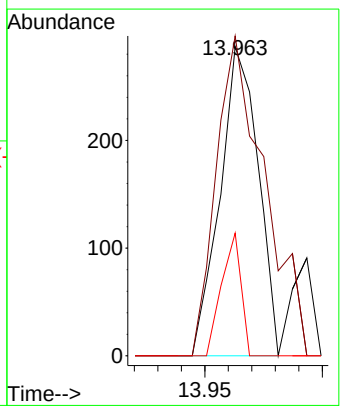




#96
1,2,3-Trichlorobenzene
Concen: 0.228 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044401.D
Acq: 19 Dec 2024 00:13

Tgt Ion:180 Resp: 324

Ion	Ratio	Lower	Upper
180	100		
182	131.2	48.0	144.0
145	20.1	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044417.D
Acq On : 19 Dec 2024 06:28 am
Operator : JC/MD
Sample : P5317-19MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Quant Time: Dec 19 07:13:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	120579	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	213617	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	190465	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	89259	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	105971	50.125	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.240%			
35) Dibromofluoromethane	5.385	113	80699	54.545	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.100%			
50) Toluene-d8	8.647	98	275601	55.215	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 110.440%			
62) 4-Bromofluorobenzene	11.079	95	95512	54.763	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 109.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	101840	54.622	ug/l	98
3) Chloromethane	1.294	50	100546	56.393	ug/l	99
4) Vinyl Chloride	1.373	62	100314	54.006	ug/l	99
5) Bromomethane	1.593	94	66030	50.108	ug/l	99
6) Chloroethane	1.660	64	64595	55.848	ug/l	99
7) Trichlorofluoromethane	1.867	101	159830	43.953	ug/l	97
8) Diethyl Ether	2.136	74	59957	48.304	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.312	101	85466	58.083	ug/l	97
10) Methyl Iodide	2.440	142	106760	55.050	ug/l	97
11) Tert butyl alcohol	2.995	59	70752	237.456	ug/l	99
12) 1,1-Dichloroethene	2.306	96	76884	56.886	ug/l	94
13) Acrolein	2.239	56	108654	251.918	ug/l	99
14) Allyl chloride	2.654	41	111120	49.361	ug/l	98
15) Acrylonitrile	3.068	53	218540	264.782	ug/l	98
16) Acetone	2.392	43	197086	228.663	ug/l	93
17) Carbon Disulfide	2.501	76	135299	52.664	ug/l	99
18) Methyl Acetate	2.709	43	94760	42.640	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	262360	49.744	ug/l	97
20) Methylene Chloride	2.782	84	86364	53.348	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	77018	53.619	ug/l	94
22) Diisopropyl ether	3.763	45	257102	50.718	ug/l	98
23) Vinyl Acetate	3.721	43	899088	218.156	ug/l	99
24) 1,1-Dichloroethane	3.605	63	150960	53.424	ug/l	99
25) 2-Butanone	4.568	43	306611	250.229	ug/l	98
26) 2,2-Dichloropropane	4.470	77	66622	29.022	ug/l	92
27) cis-1,2-Dichloroethene	4.483	96	95958	52.601	ug/l	93
28) Bromochloromethane	4.891	49	70090	50.584	ug/l	99
29) Tetrahydrofuran	5.007	42	197080	250.581	ug/l	99
30) Chloroform	5.086	83	162853	51.296	ug/l	98
31) Cyclohexane	5.458	56	116900	51.232	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	134879	51.181	ug/l	99
36) 1,1-Dichloropropene	5.690	75	99689	52.127	ug/l	98
37) Ethyl Acetate	4.714	43	103439	43.755	ug/l	99
38) Carbon Tetrachloride	5.671	117	106720	51.832	ug/l	93
39) Methylcyclohexane	7.372	83	120195	52.572	ug/l	98
40) Benzene	6.031	78	320899	55.265	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044417.D
Acq On : 19 Dec 2024 06:28 am
Operator : JC/MD
Sample : P5317-19MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Quant Time: Dec 19 07:13:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	63751	50.785	ug/l		96
42) 1,2-Dichloroethane	6.080	62	124414	52.015	ug/l		97
43) Isopropyl Acetate	6.342	43	170996	46.279	ug/l		99
44) Trichloroethene	7.122	130	272774	188.381	ug/l		100
45) 1,2-Dichloropropane	7.427	63	77375	52.158	ug/l		100
46) Dibromomethane	7.580	93	62524	54.327	ug/l		98
47) Bromodichloromethane	7.817	83	107956	54.314	ug/l	#	98
48) Methyl methacrylate	7.696	41	91092	50.787	ug/l		96
49) 1,4-Dioxane	7.665	88	28445	956.536	ug/l	#	66
51) 4-Methyl-2-Pentanone	8.573	43	622807	262.151	ug/l		99
52) Toluene	8.714	92	194818	53.428	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	96722	45.626	ug/l		96
54) cis-1,3-Dichloropropene	8.366	75	108330	50.056	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	79671	54.999	ug/l		98
56) Ethyl methacrylate	9.116	69	122174	53.425	ug/l		98
57) 1,3-Dichloropropane	9.305	76	133261	52.852	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.165	63	328	0.284	ug/l	#	46
59) 2-Hexanone	9.433	43	455924	265.129	ug/l		98
60) Dibromochloromethane	9.518	129	77087	50.234	ug/l		100
61) 1,2-Dibromoethane	9.610	107	80434	54.550	ug/l		100
64) Tetrachloroethene	9.268	164	64526	51.043	ug/l		98
65) Chlorobenzene	10.079	112	212499	52.067	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.158	131	71222	54.299	ug/l		99
67) Ethyl Benzene	10.195	91	364782	51.729	ug/l		99
68) m/p-Xylenes	10.299	106	276393	106.816	ug/l		96
69) o-Xylene	10.640	106	139121	53.138	ug/l		95
70) Styrene	10.652	104	229145	54.597	ug/l		97
71) Bromoform	10.799	173	46210	50.371	ug/l	#	100
73) Isopropylbenzene	10.963	105	353672	51.758	ug/l		100
74) N-amyl acetate	10.841	43	133021	42.122	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	120537	50.787	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	122106	61.269	ug/l		84
77) Bromobenzene	11.195	156	85100	51.358	ug/l		99
78) n-propylbenzene	11.305	91	393213	52.064	ug/l		99
79) 2-Chlorotoluene	11.360	91	241377	49.418	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	290026	51.181	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	25222	37.797	ug/l		99
82) 4-Chlorotoluene	11.451	91	275039	50.851	ug/l		99
83) tert-Butylbenzene	11.713	119	293206	52.357	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	290913	52.275	ug/l		99
85) sec-Butylbenzene	11.890	105	347835	51.163	ug/l		100
86) p-Isopropyltoluene	12.006	119	287333	50.779	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	151413	52.313	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	151478	50.911	ug/l		97
89) n-Butylbenzene	12.329	91	239808	50.400	ug/l		99
90) Hexachloroethane	12.536	117	43066	52.138	ug/l		96
91) 1,2-Dichlorobenzene	12.335	146	152884	50.871	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	21771	47.254	ug/l		93
93) 1,2,4-Trichlorobenzene	13.585	180	85895	52.132	ug/l		98
94) Hexachlorobutadiene	13.725	225	33809	51.014	ug/l		98
95) Naphthalene	13.774	128	312358	48.567	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	88117	50.422	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044417.D
Acq On : 19 Dec 2024 06:28 am
Operator : JC/MD
Sample : P5317-19MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Quant Time: Dec 19 07:13:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

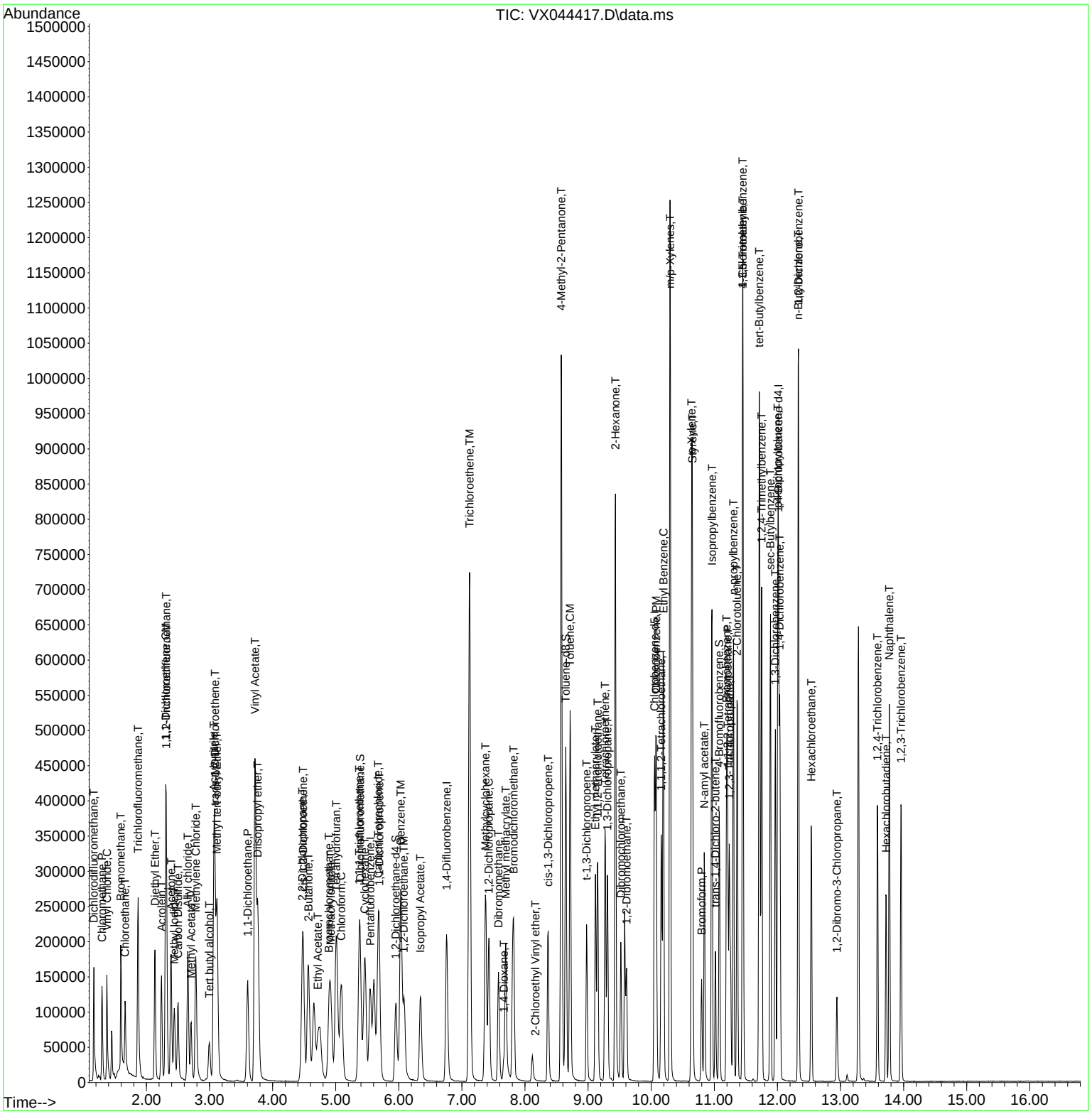
(#) = qualifier out of range (m) = manual integration (+) = signals summed

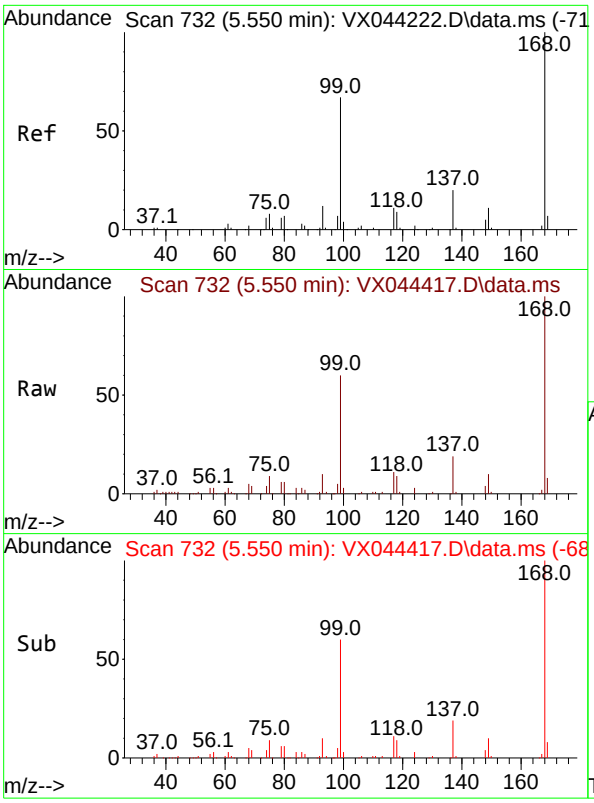
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044417.D
Acq On : 19 Dec 2024 06:28 am
Operator : JC/MD
Sample : P5317-19MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Quant Time: Dec 19 07:13:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



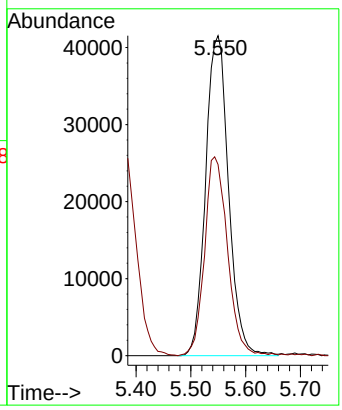


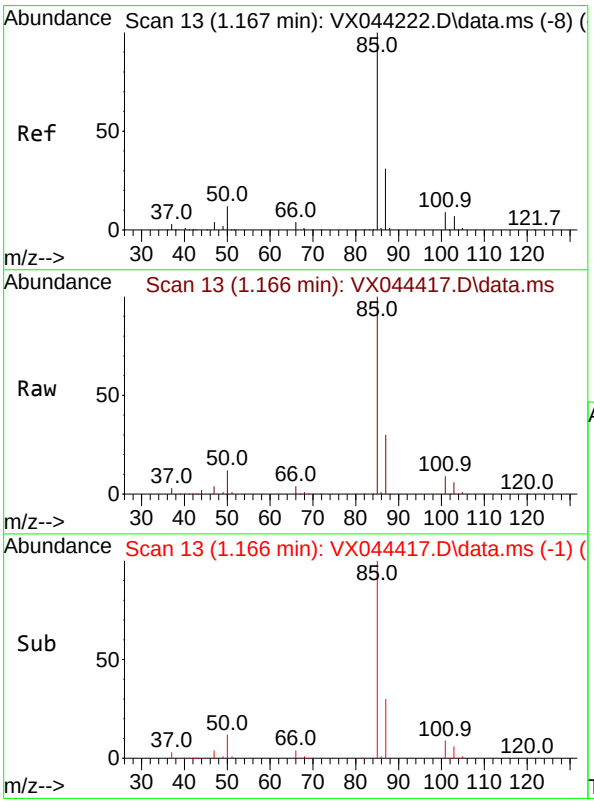
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 ...

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:168 Resp: 120579

Ion	Ratio	Lower	Upper
168	100		
99	59.8	53.4	80.0

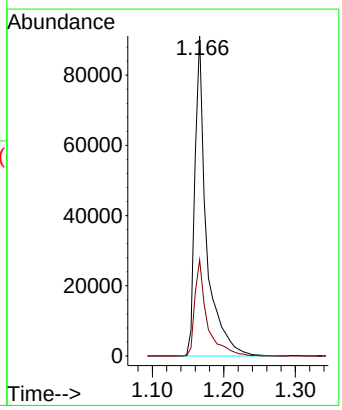


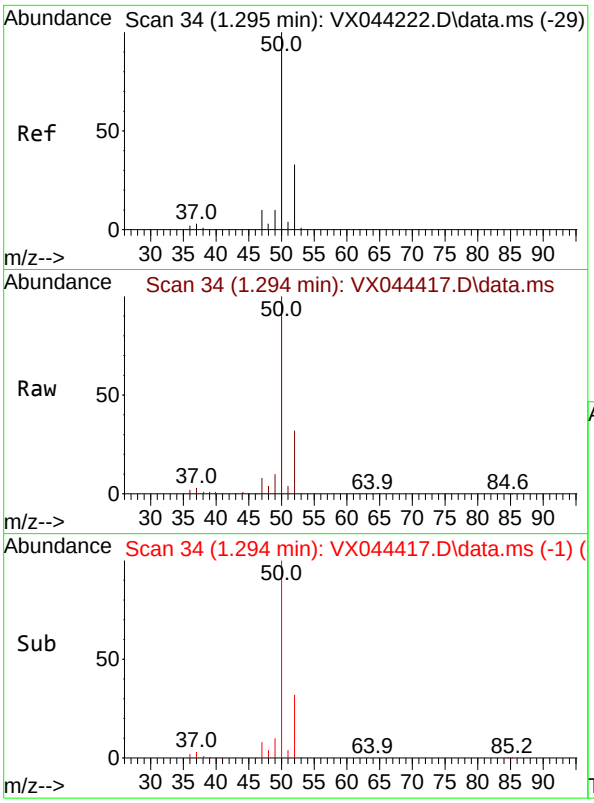


#2
Dichlorodifluoromethane
Concen: 54.622 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 85 Resp: 101840

Ion	Ratio	Lower	Upper
85	100		
87	30.0	15.4	46.4



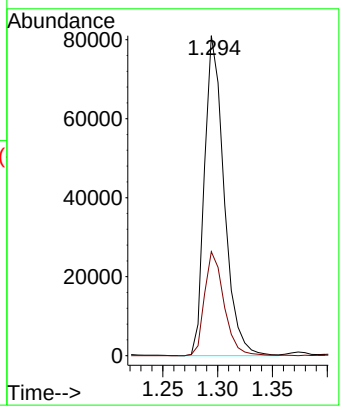


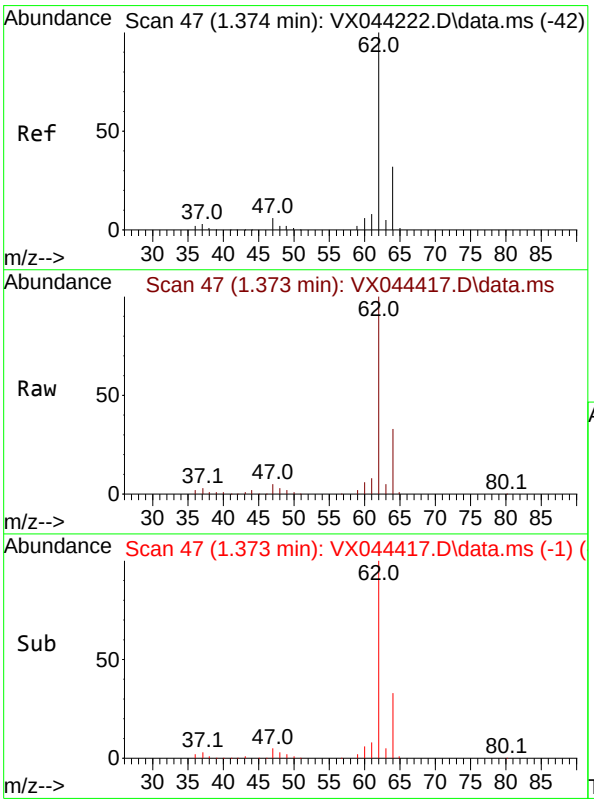
#3
Chloromethane
Concen: 56.393 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 50 Resp: 100546

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.5	39.7

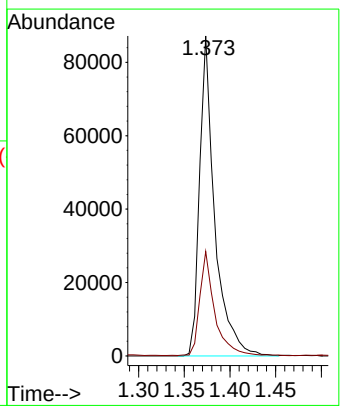


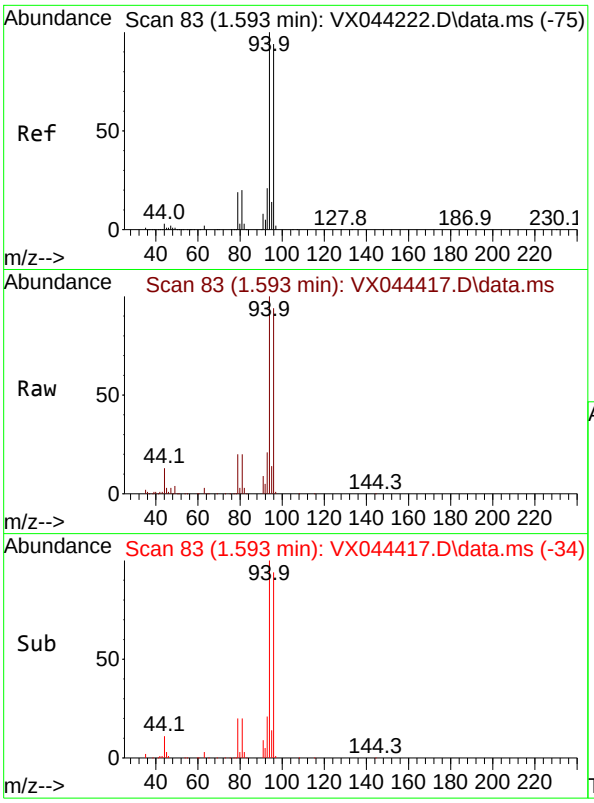


#4
Vinyl Chloride
Concen: 54.006 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 62 Resp: 100314

Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.7	38.5



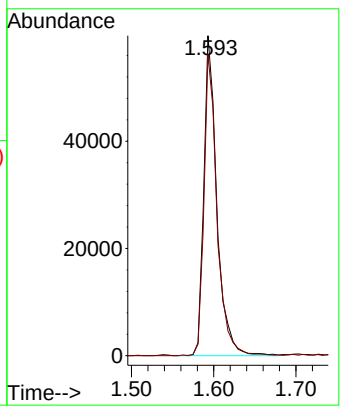


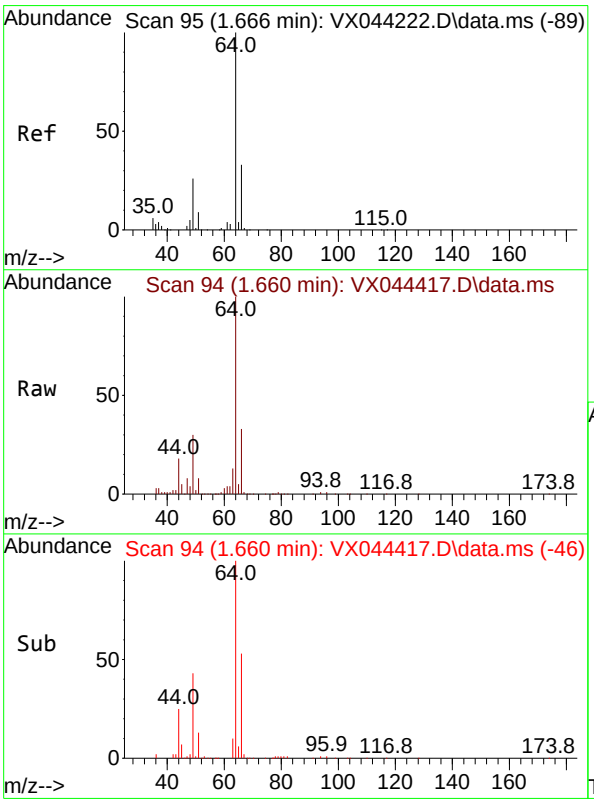
#5
Bromomethane
Concen: 50.108 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a...

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 94 Resp: 66030

Ion	Ratio	Lower	Upper
94	100		
96	94.1	74.9	112.3

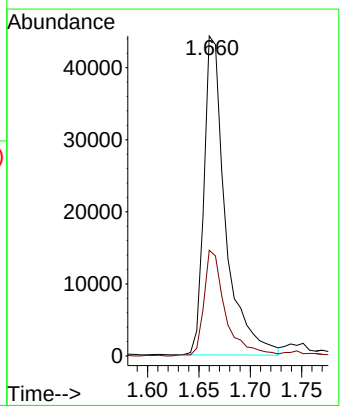


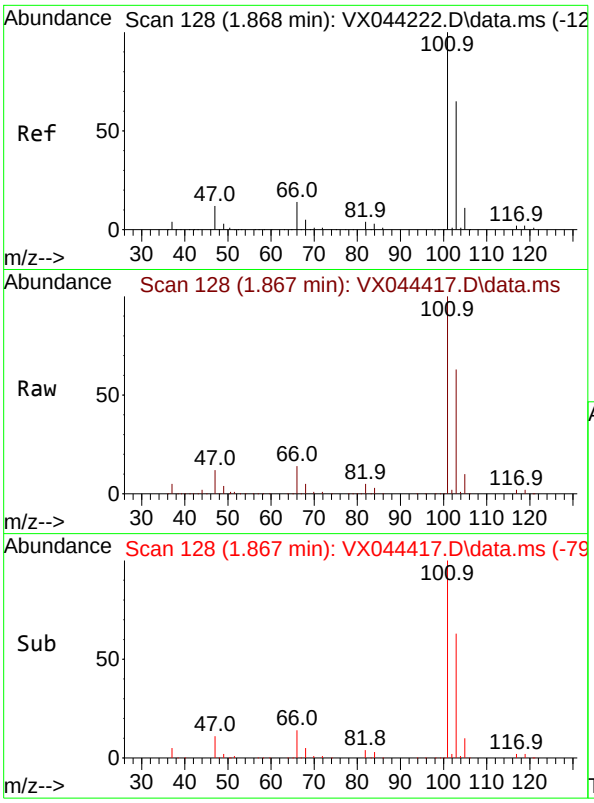


#6
Chloroethane
Concen: 55.848 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 64 Resp: 64595

Ion	Ratio	Lower	Upper
64	100		
66	32.8	26.6	39.8



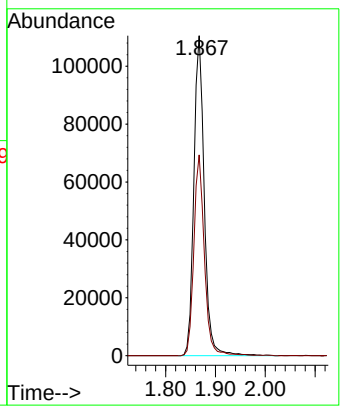


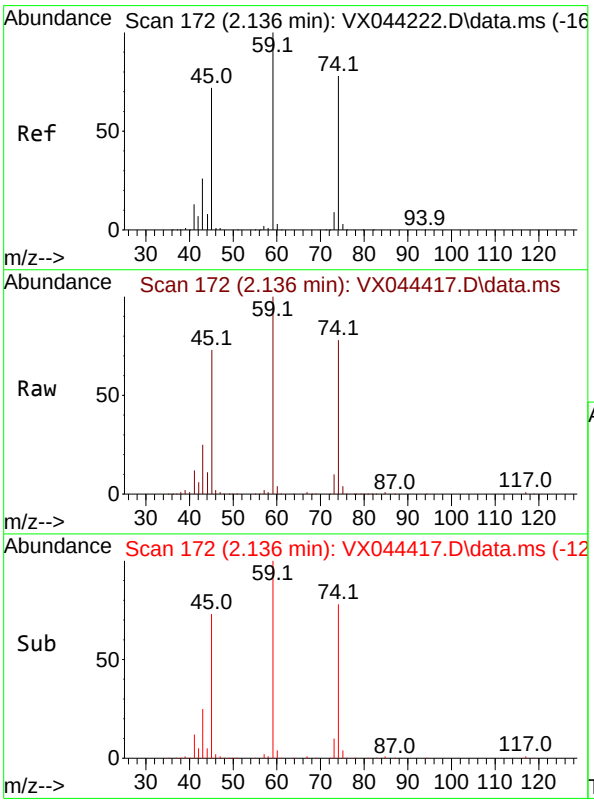
#7
Trichlorofluoromethane
Concen: 43.953 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:101 Resp: 159830

Ion	Ratio	Lower	Upper
101	100		
103	62.7	51.8	77.8

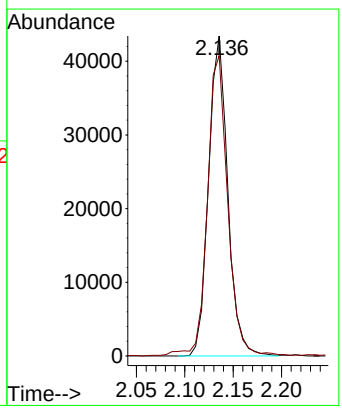


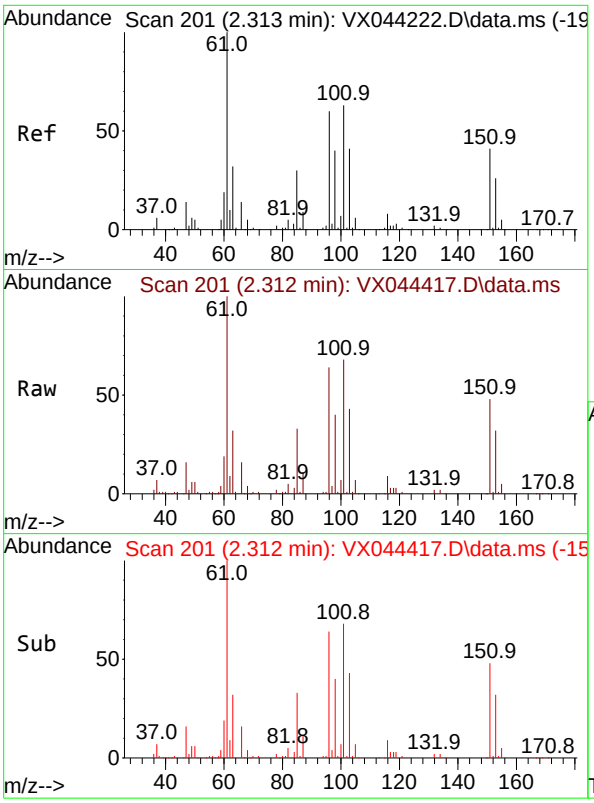


#8
Diethyl Ether
Concen: 48.304 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 74 Resp: 59957

Ion	Ratio	Lower	Upper
74	100		
45	99.7	48.4	145.0



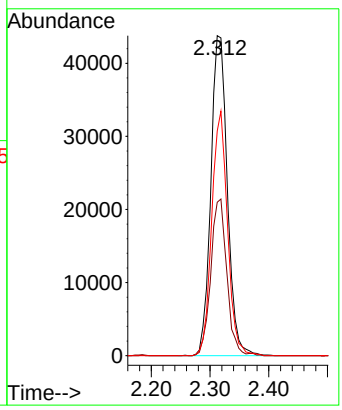


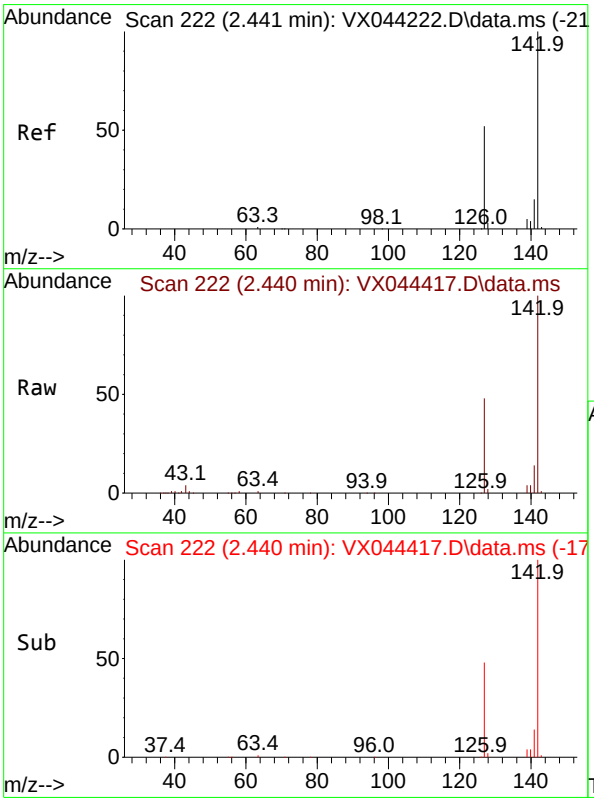
#9
1,1,2-Trichlorotrifluoroethane
Concen: 58.083 ug/l
RT: 2.312 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:101 Resp: 85466

Ion	Ratio	Lower	Upper
101	100		
85	47.6	38.5	57.7
151	73.1	55.8	83.6

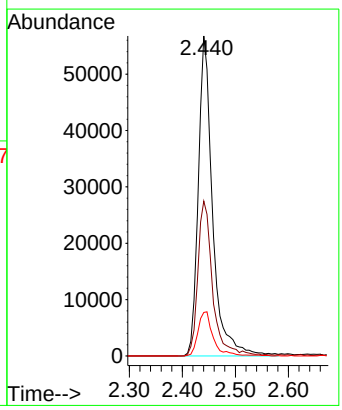


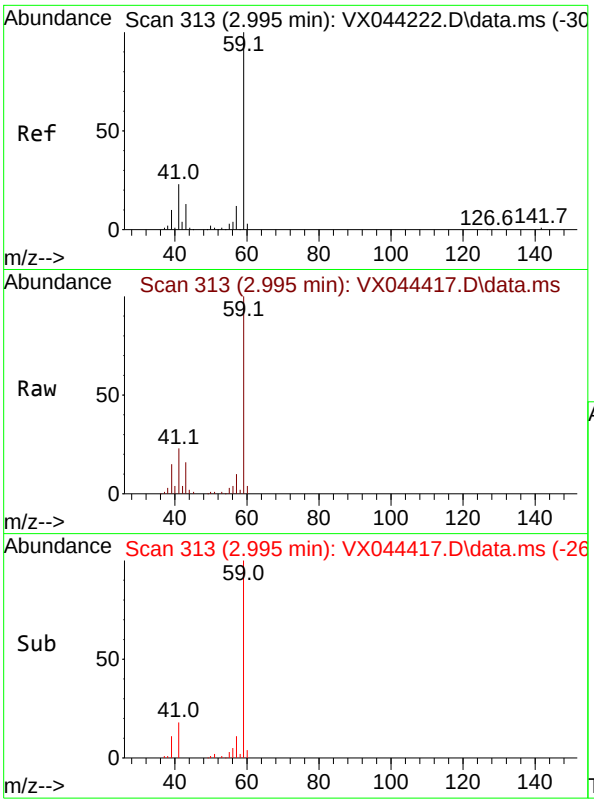


#10
Methyl Iodide
Concen: 55.050 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:142 Resp: 106760

Ion	Ratio	Lower	Upper
142	100		
127	50.0	41.8	62.8
141	14.5	11.5	17.3



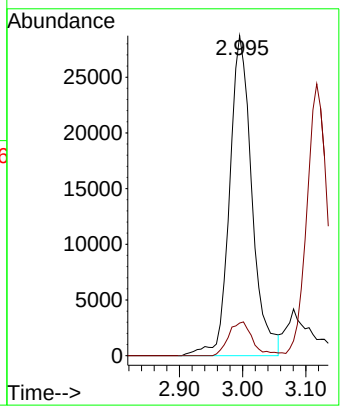


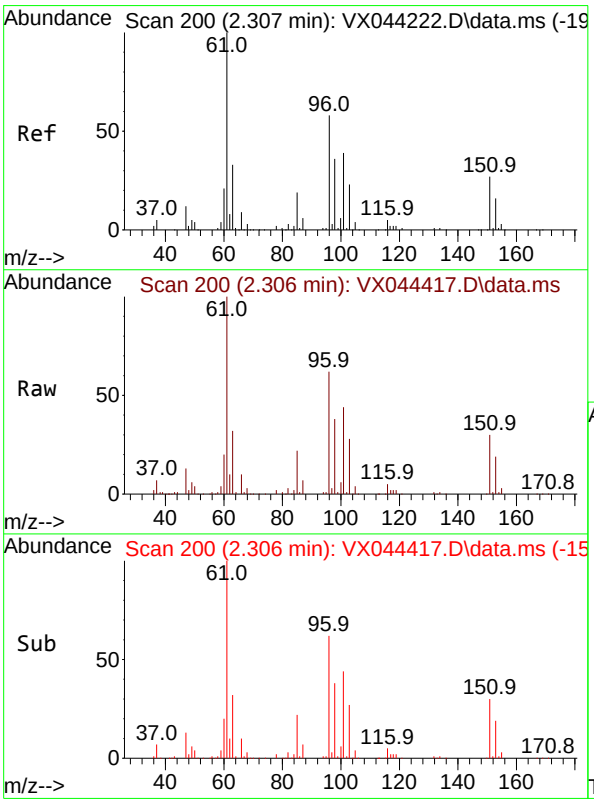
#11
Tert butyl alcohol
Concen: 237.456 ug/l
RT: 2.995 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 59 Resp: 70752

Ion	Ratio	Lower	Upper
59	100		
57	11.3	8.8	13.2

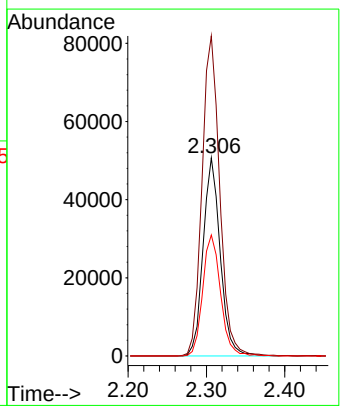


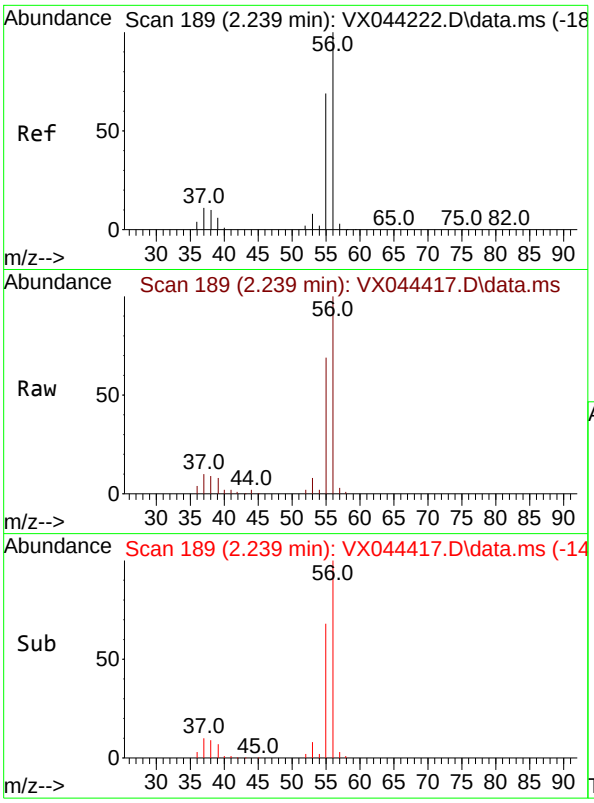


#12
1,1-Dichloroethene
Concen: 56.886 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 96 Resp: 76884

Ion	Ratio	Lower	Upper
96	100		
61	161.5	138.0	207.0
98	61.0	50.0	75.0



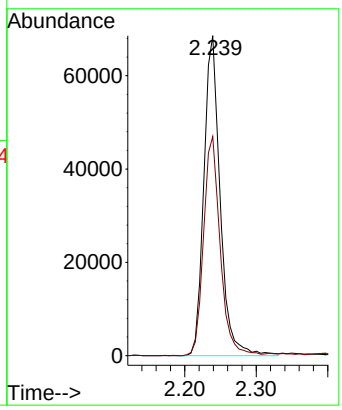


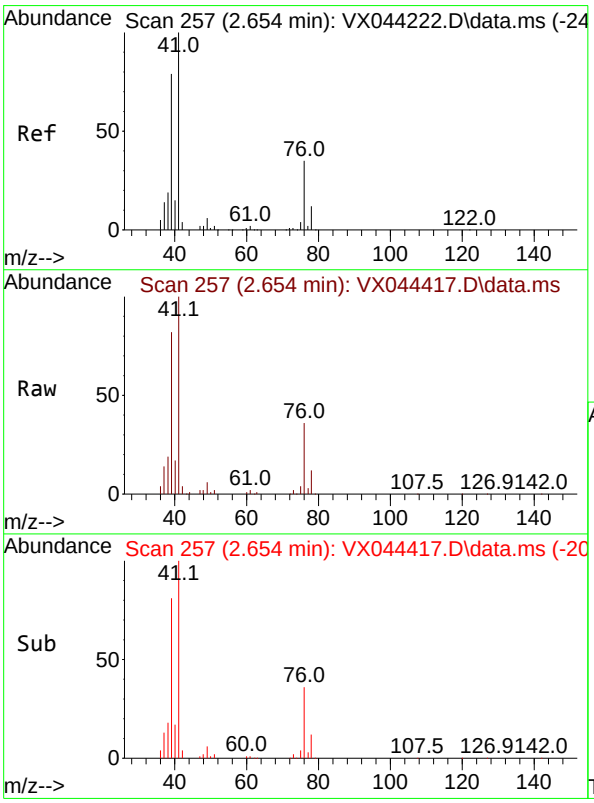
#13
Acrolein
Concen: 251.918 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 56 Resp: 108654

Ion	Ratio	Lower	Upper
56	100		
55	69.8	56.6	84.8

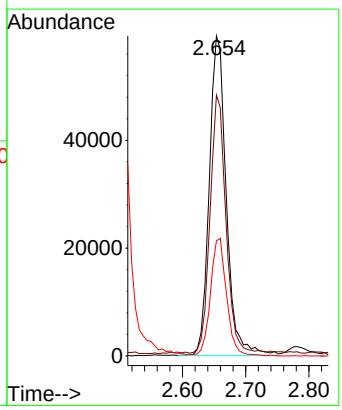


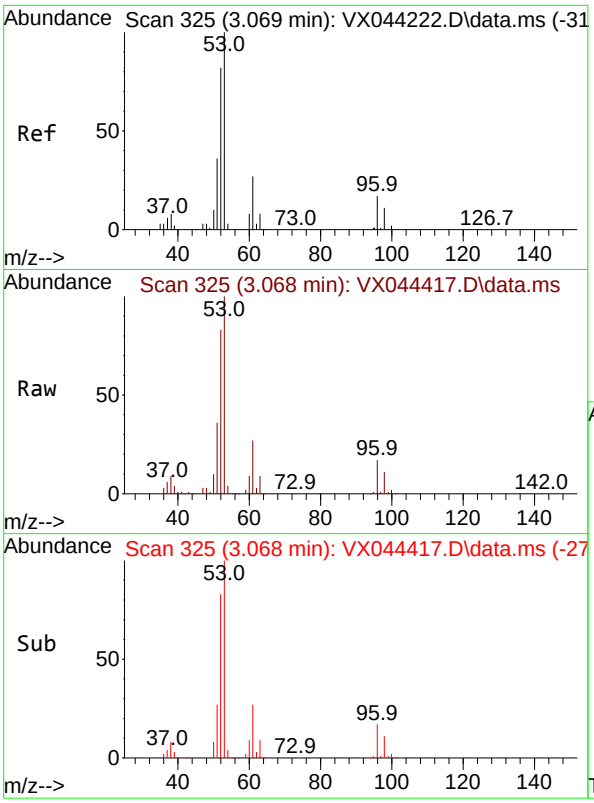


#14
Allyl chloride
Concen: 49.361 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 41 Resp: 111120

Ion	Ratio	Lower	Upper
41	100		
39	75.0	61.9	92.9
76	34.8	27.4	41.2



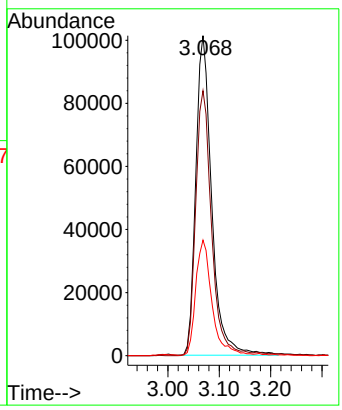


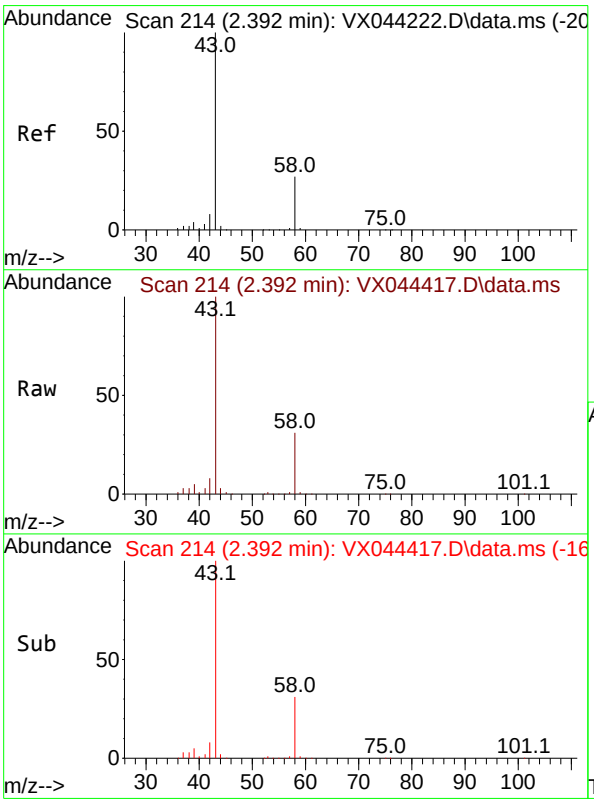
#15
Acrylonitrile
Concen: 264.782 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 53 Resp: 218540

Ion	Ratio	Lower	Upper
53	100		
52	82.4	67.4	101.0
51	36.3	30.3	45.5

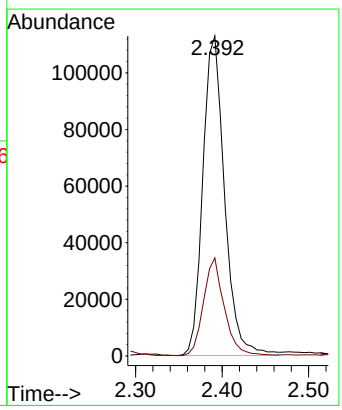


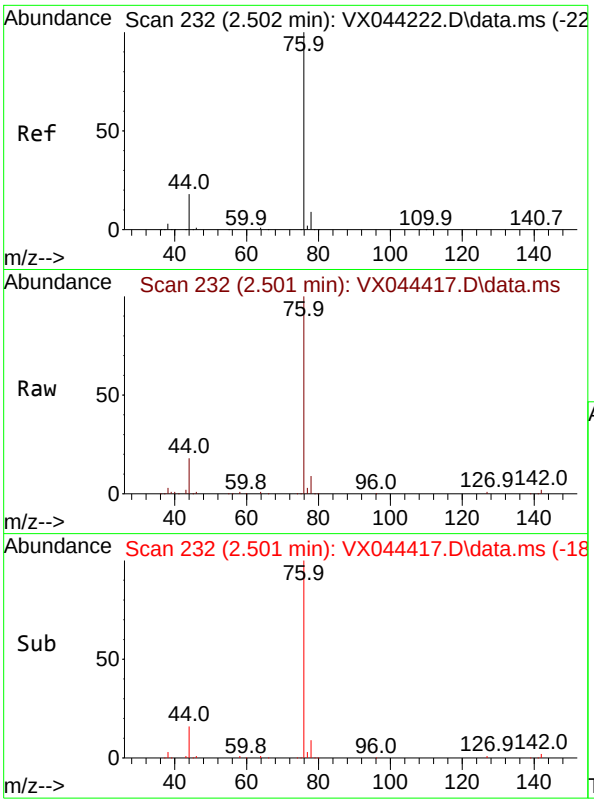


#16
Acetone
Concen: 228.663 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 43 Resp: 197086

Ion	Ratio	Lower	Upper
43	100		
58	30.6	21.6	32.4



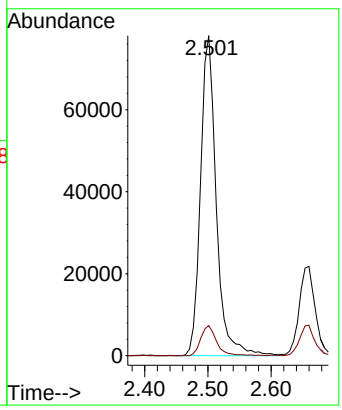


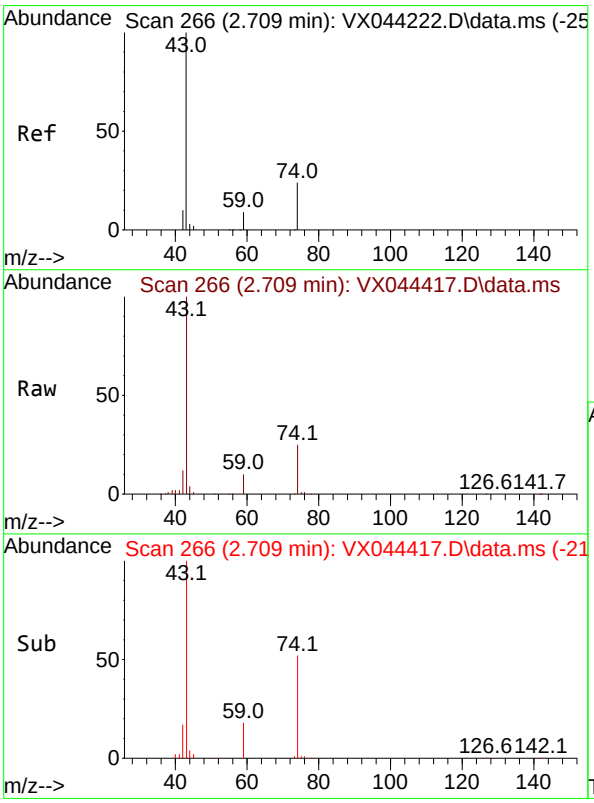
#17
Carbon Disulfide
Concen: 52.664 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 76 Resp: 135299

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0

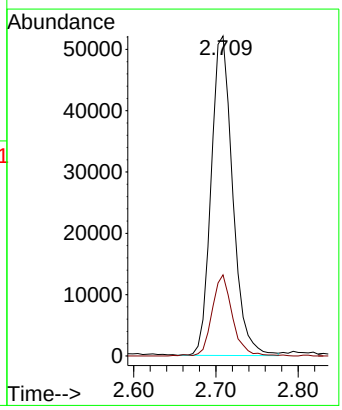


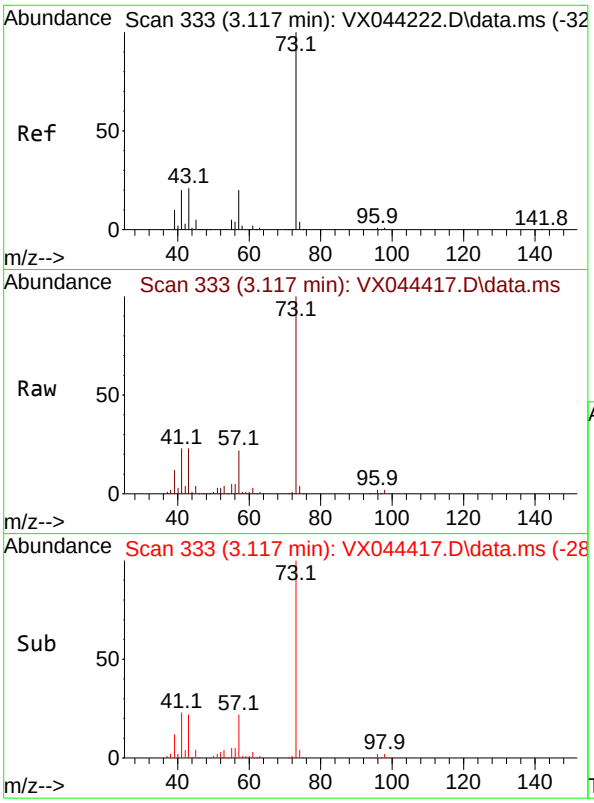


#18
Methyl Acetate
Concen: 42.640 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 43 Resp: 94760

Ion	Ratio	Lower	Upper
43	100		
74	24.0	17.7	26.5



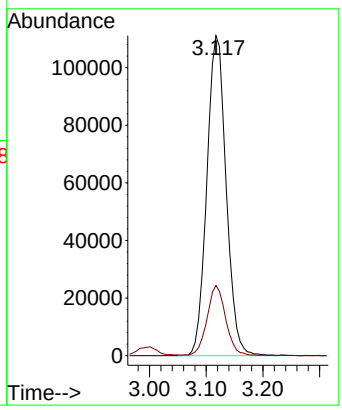


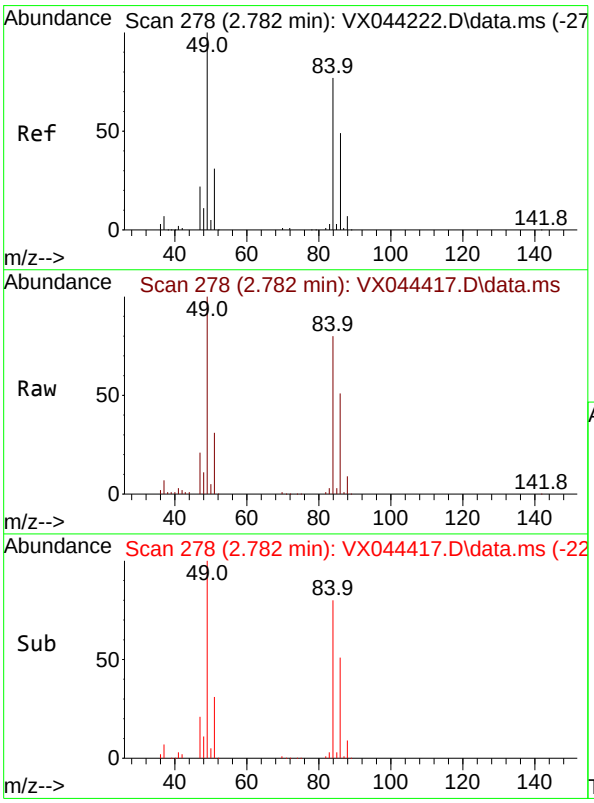
#19
Methyl tert-butyl Ether
Concen: 49.744 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 73 Resp: 262360

Ion	Ratio	Lower	Upper
73	100		
57	21.9	16.2	24.4

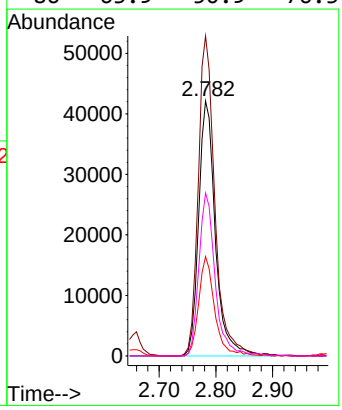


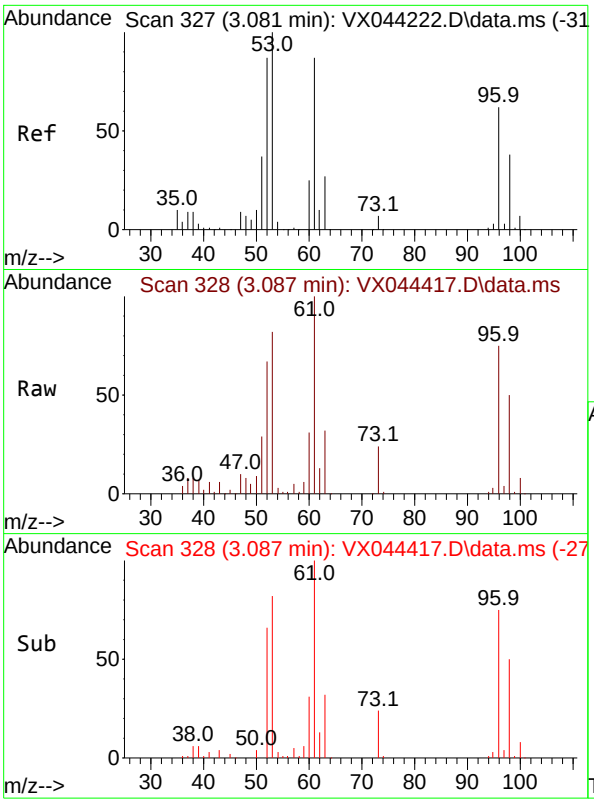


#20
Methylene Chloride
Concen: 53.348 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 84 Resp: 86364

Ion	Ratio	Lower	Upper
84	100		
49	125.4	104.2	156.4
51	38.9	32.2	48.4
86	63.9	50.9	76.3



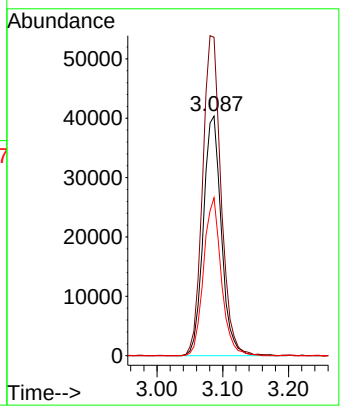


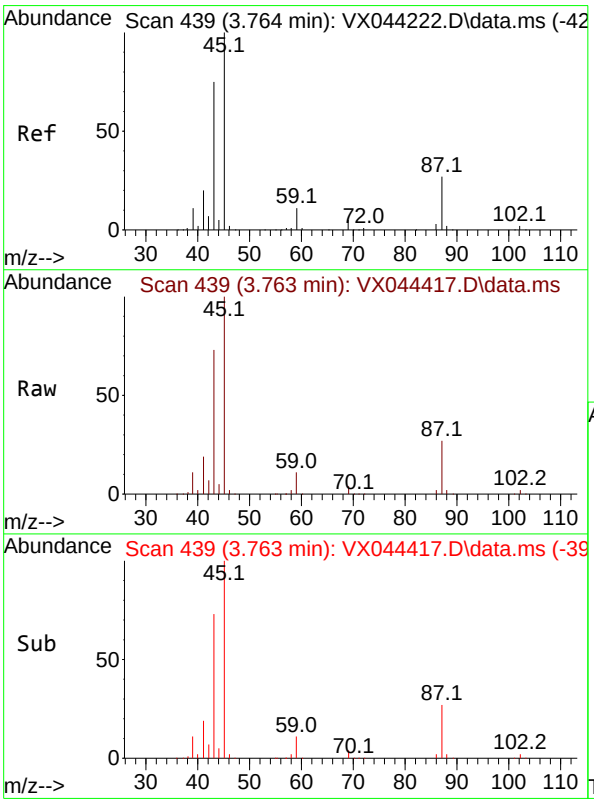
#21
trans-1,2-Dichloroethene
Concen: 53.619 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 96 Resp: 77018

Ion	Ratio	Lower	Upper
96	100		
61	133.0	112.0	168.0
98	65.9	48.8	73.2

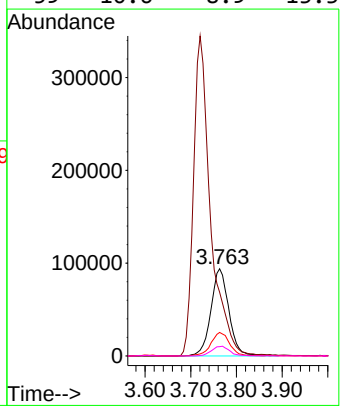


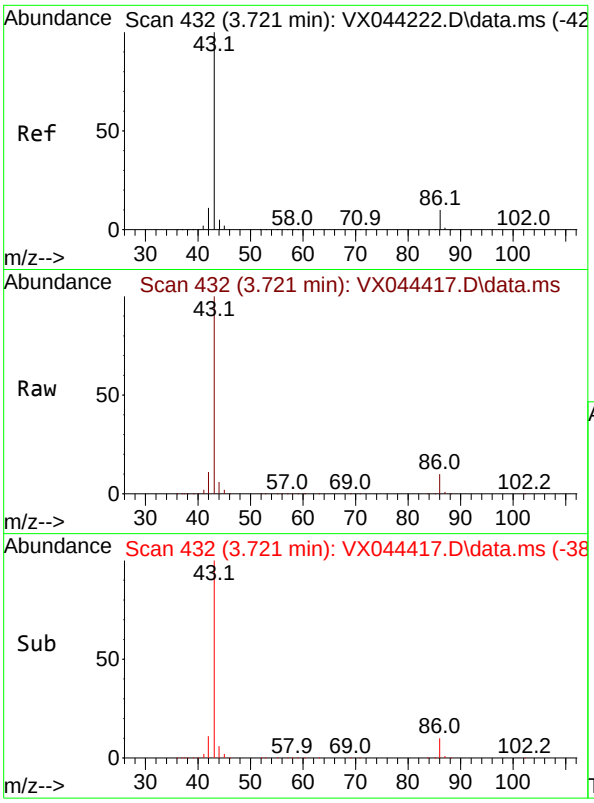


#22
Diisopropyl ether
Concen: 50.718 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 45 Resp: 257102

Ion	Ratio	Lower	Upper
45	100		
43	72.8	60.2	90.2
87	26.9	21.2	31.8
59	10.6	8.9	13.3



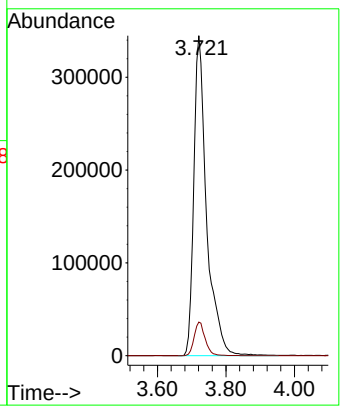


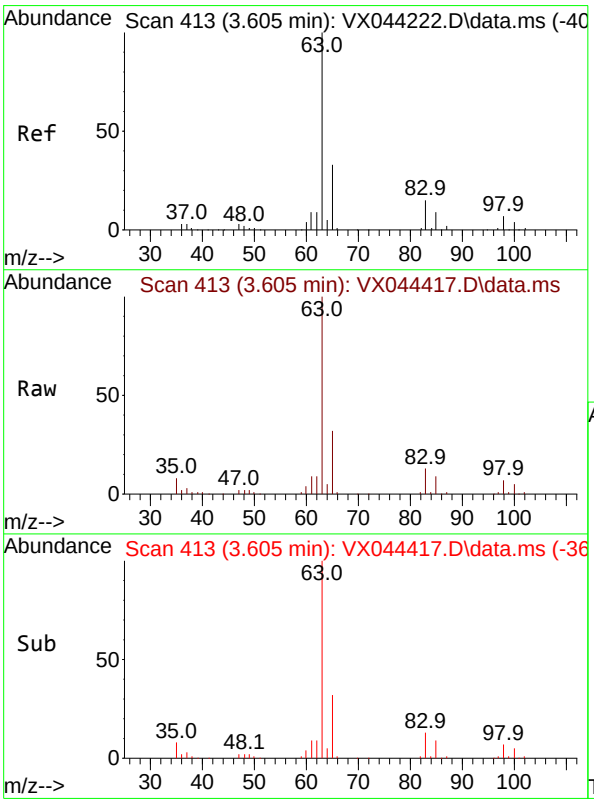
#23
Vinyl Acetate
Concen: 218.156 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 43 Resp: 899088

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.2

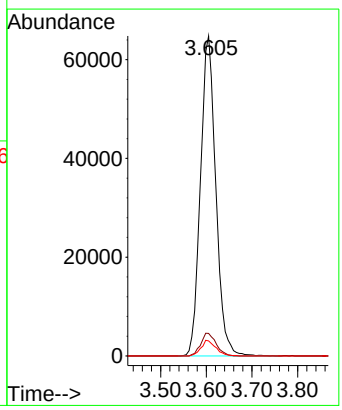


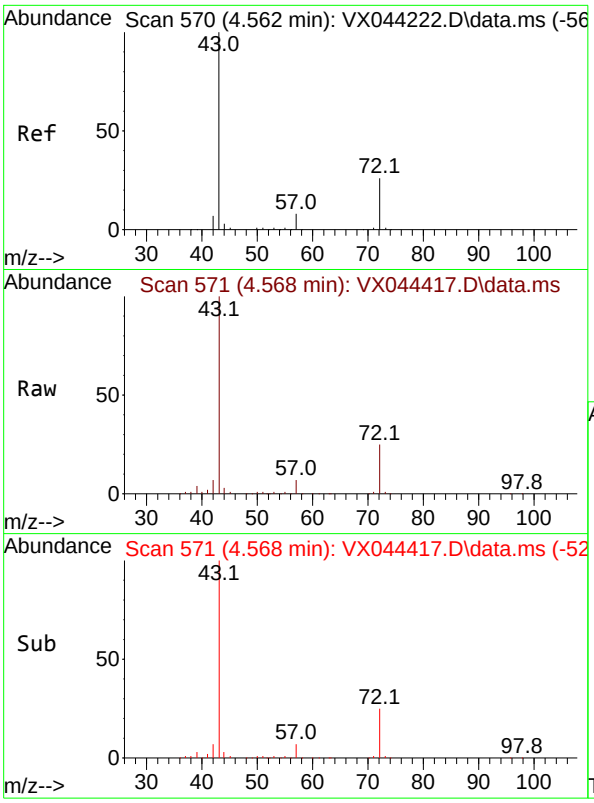


#24
1,1-Dichloroethane
Concen: 53.424 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 63 Resp: 150960

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.6	10.8
100	4.7	2.1	6.3



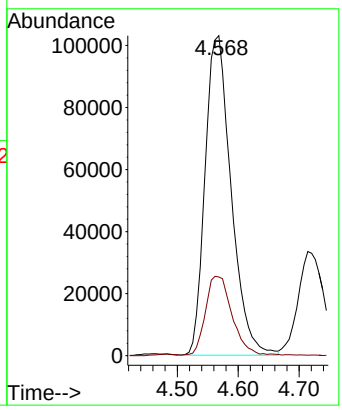


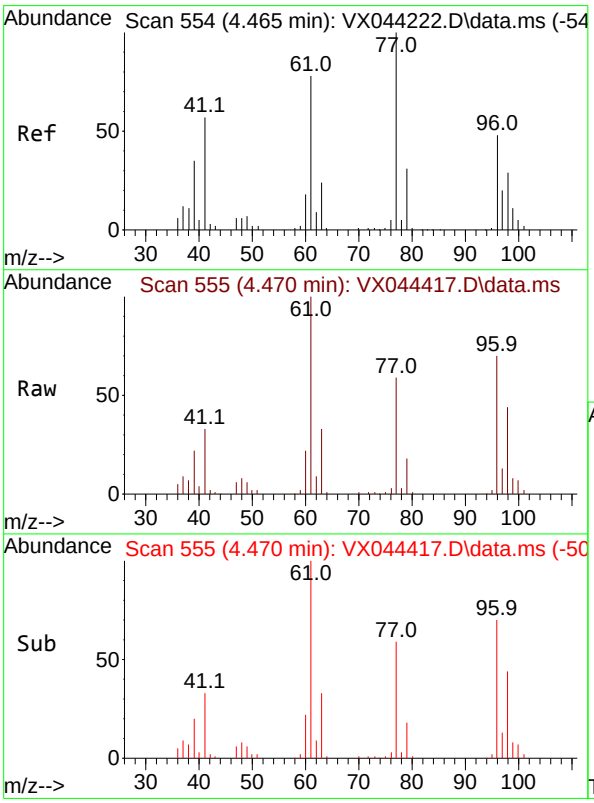
#25
2-Butanone
Concen: 250.229 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 43 Resp: 306611

Ion	Ratio	Lower	Upper
43	100		
72	24.3	20.2	30.4

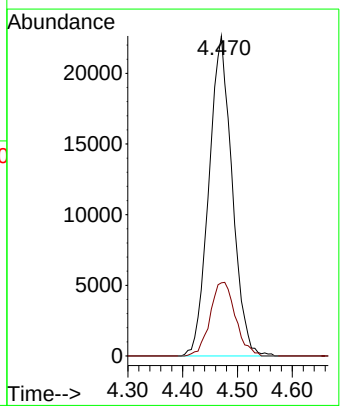


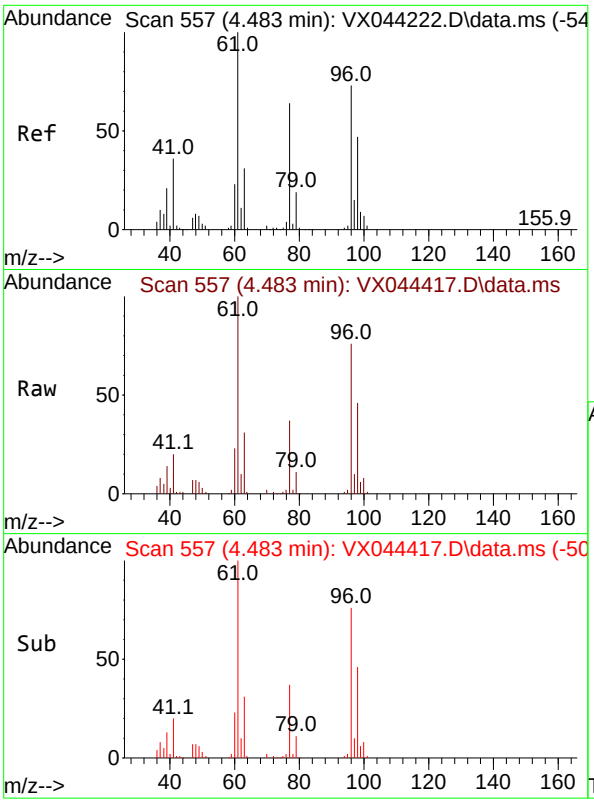


#26
2,2-Dichloropropane
Concen: 29.022 ug/l
RT: 4.470 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 77 Resp: 66622

Ion	Ratio	Lower	Upper
77	100		
97	25.1	10.7	32.1



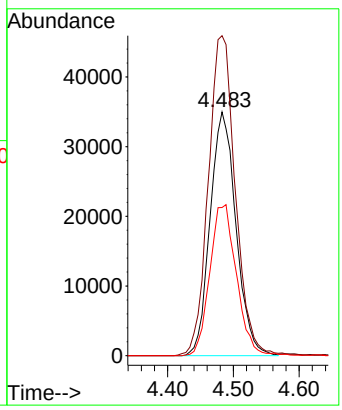


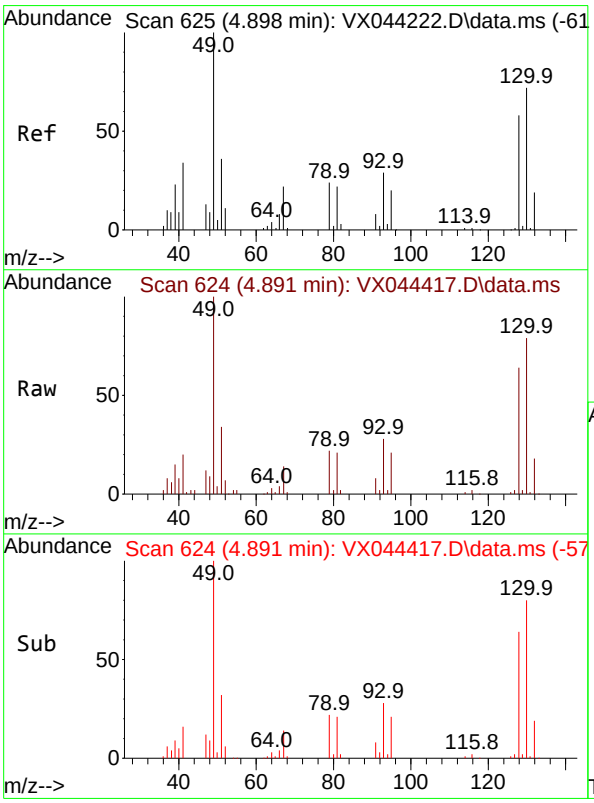
#27
cis-1,2-Dichloroethene
Concen: 52.601 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 96 Resp: 95958

Ion	Ratio	Lower	Upper
96	100		
61	136.9	0.0	299.0
98	63.8	0.0	129.0

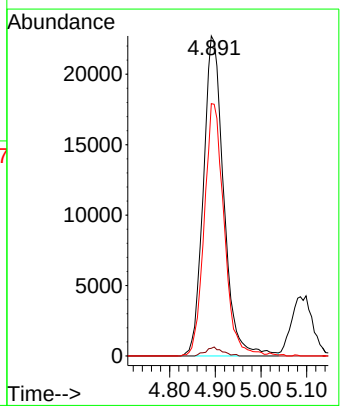


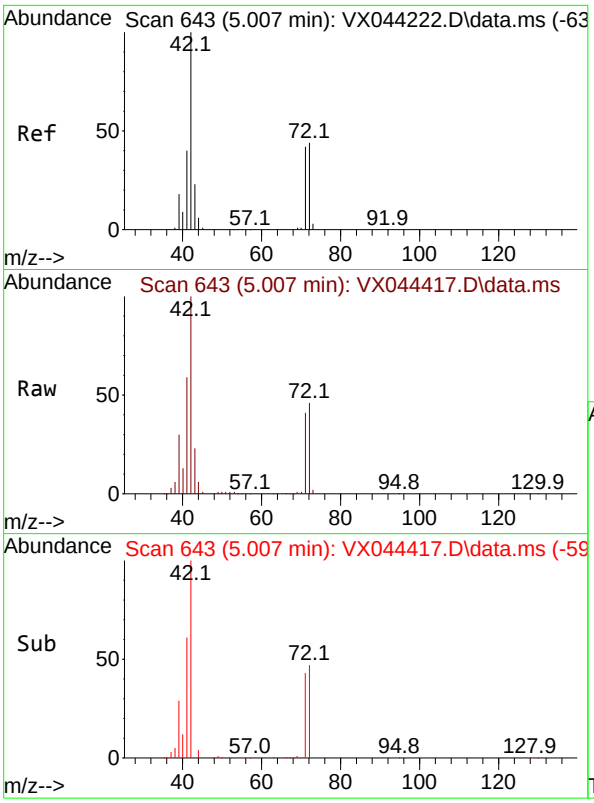


#28
Bromochloromethane
Concen: 50.584 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 49 Resp: 70090

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	76.9	62.1	93.1



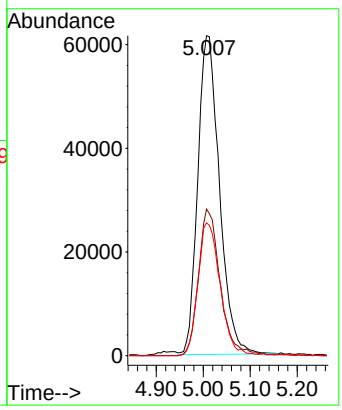


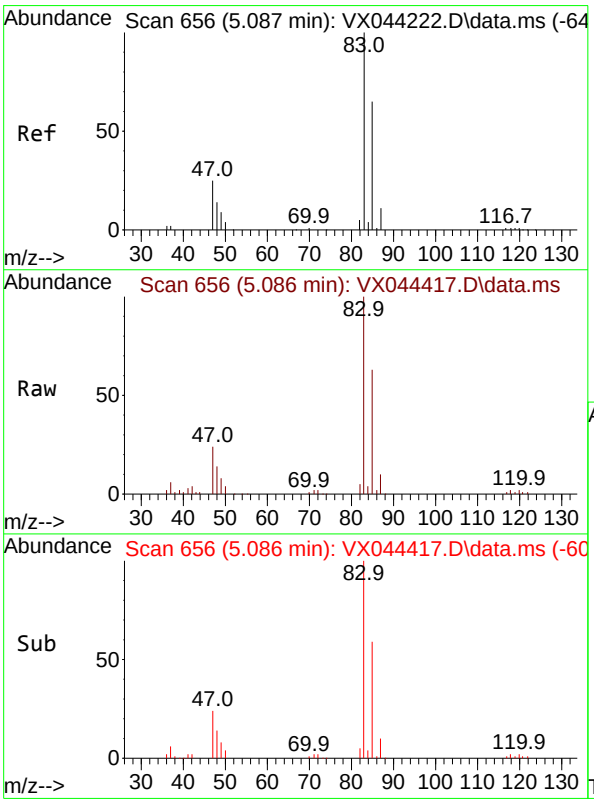
#29
Tetrahydrofuran
Concen: 250.581 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a...

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 42 Resp: 197080

Ion	Ratio	Lower	Upper
42	100		
72	45.7	37.0	55.6
71	42.7	33.6	50.4

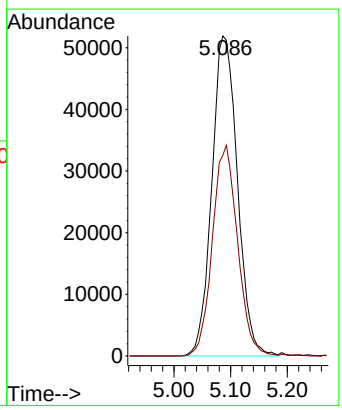


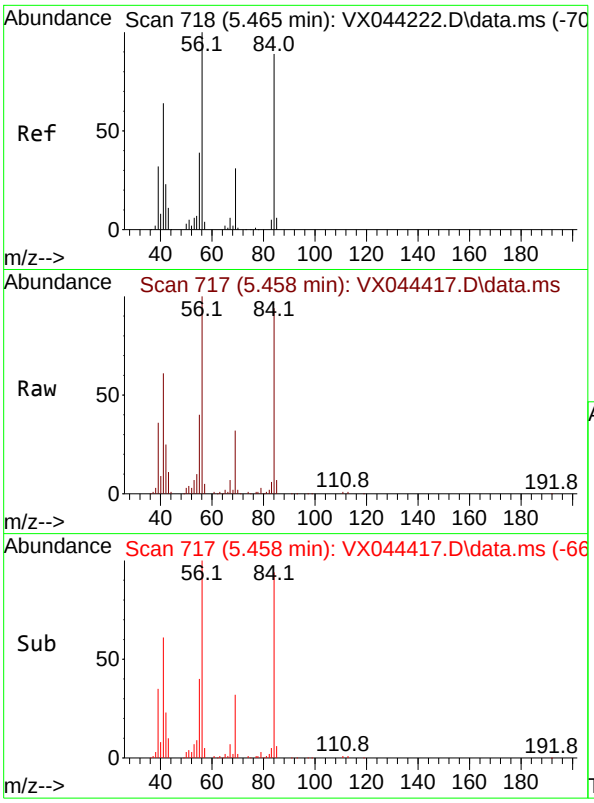


#30
Chloroform
Concen: 51.296 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 83 Resp: 162853

Ion	Ratio	Lower	Upper
83	100		
85	62.7	51.6	77.4



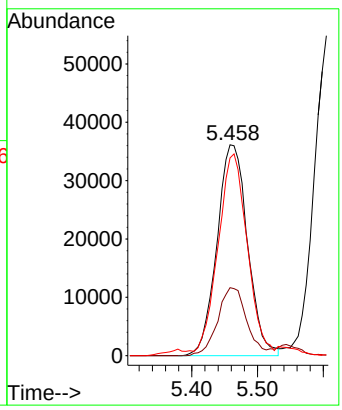


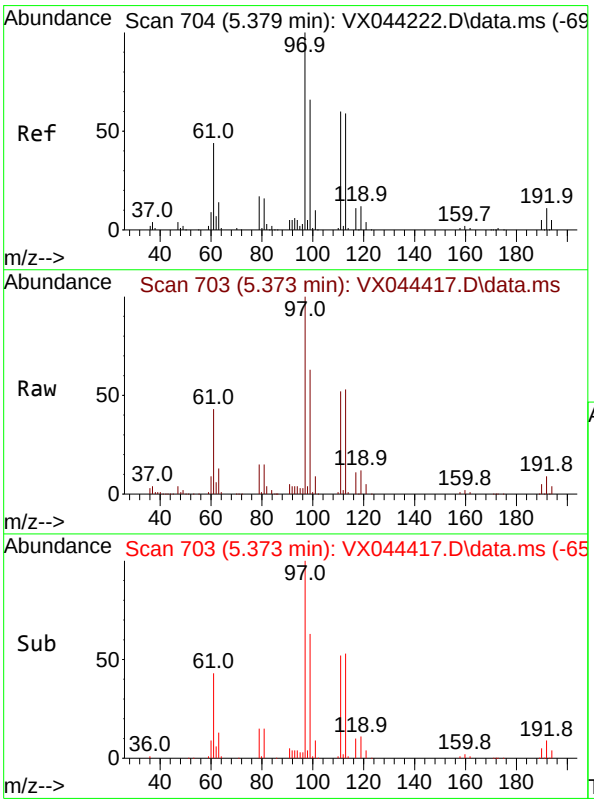
#31
Cyclohexane
Concen: 51.232 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a...

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 56 Resp: 116900

Ion	Ratio	Lower	Upper
56	100		
69	32.2	24.7	37.1
84	90.6	71.0	106.6

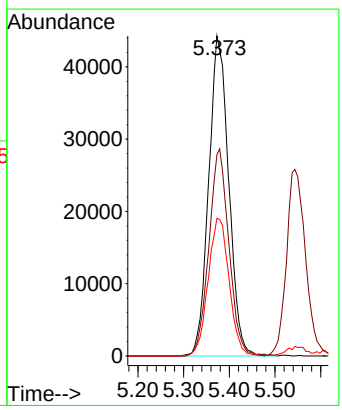


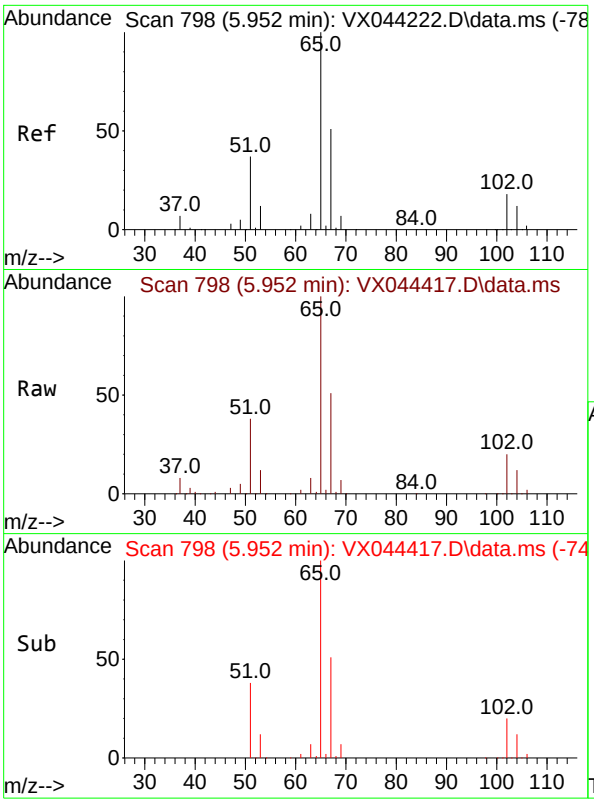


#32
1,1,1-Trichloroethane
Concen: 51.181 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 97 Resp: 134879

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.8	76.2
61	45.2	35.2	52.8



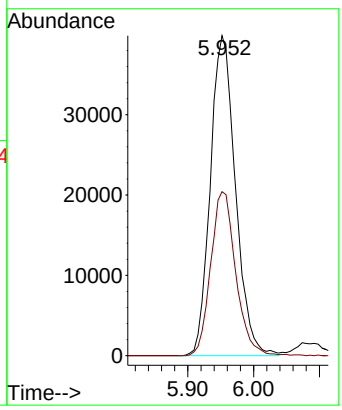


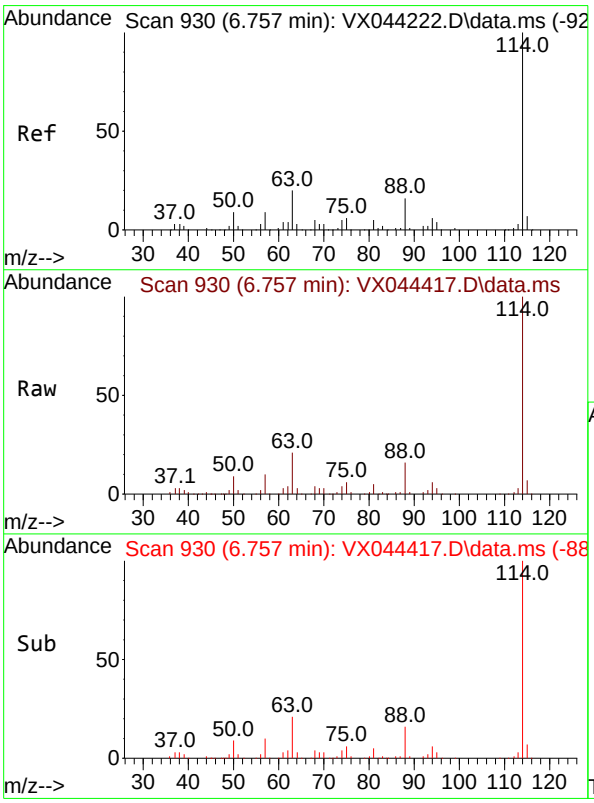
#33
1,2-Dichloroethane-d4
Concen: 50.125 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 65 Resp: 105971

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	101.6

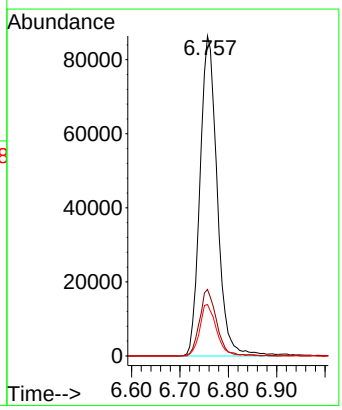


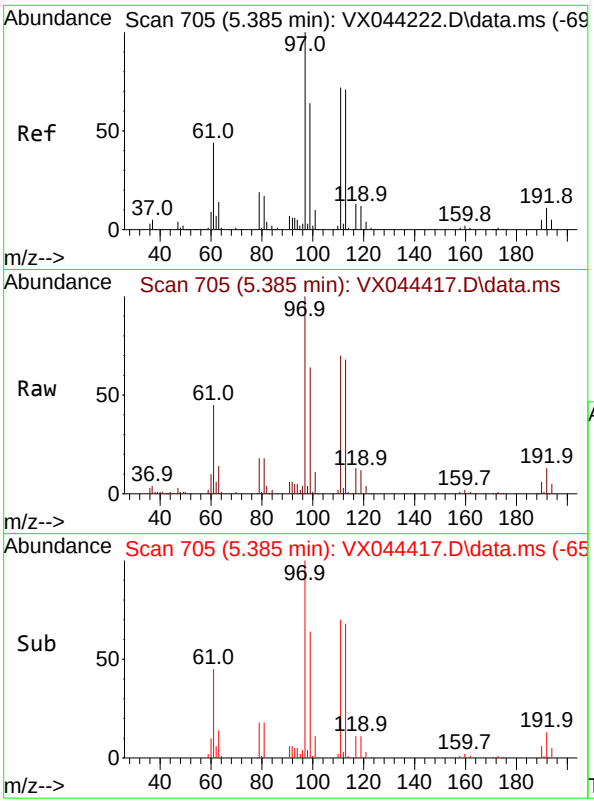


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:114 Resp: 213617

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.6
88	16.1	0.0	31.8



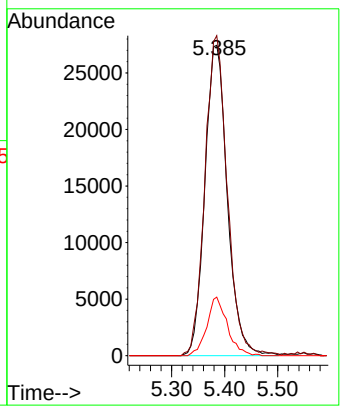


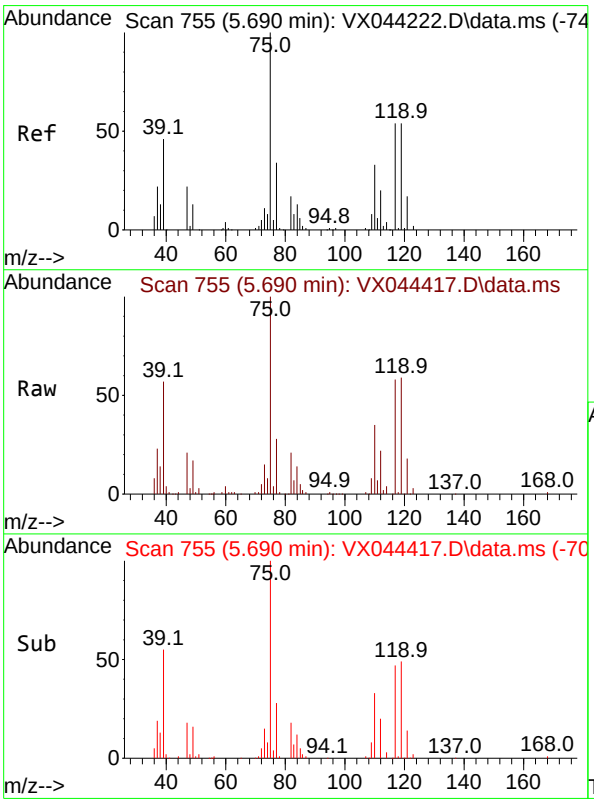
#35
Dibromofluoromethane
Concen: 54.545 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:113 Resp: 80699

Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.4	120.6
192	17.3	13.3	19.9

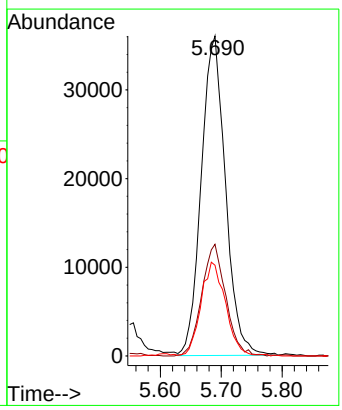


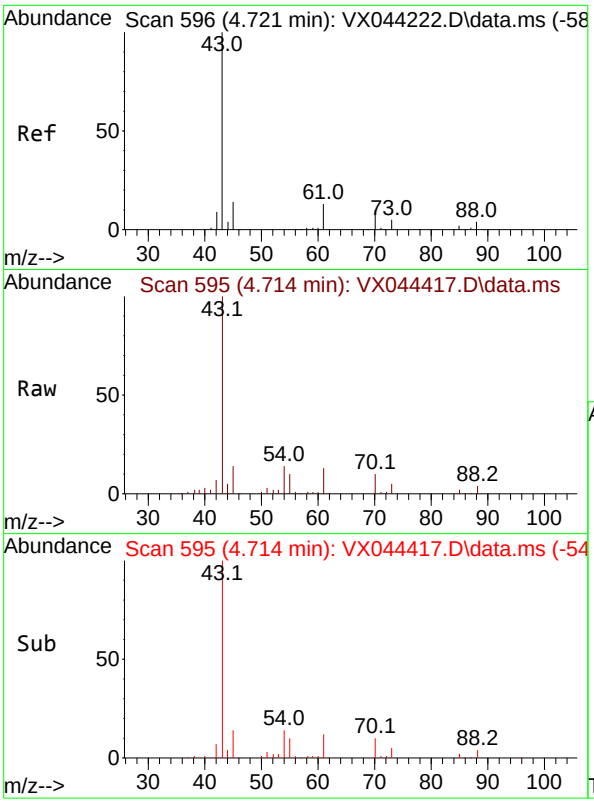


#36
1,1-Dichloropropene
Concen: 52.127 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 75 Resp: 99689

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.3	51.7
77	29.2	25.4	38.0



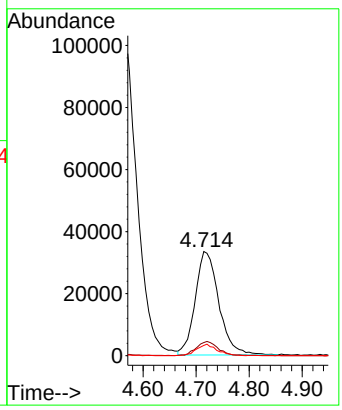


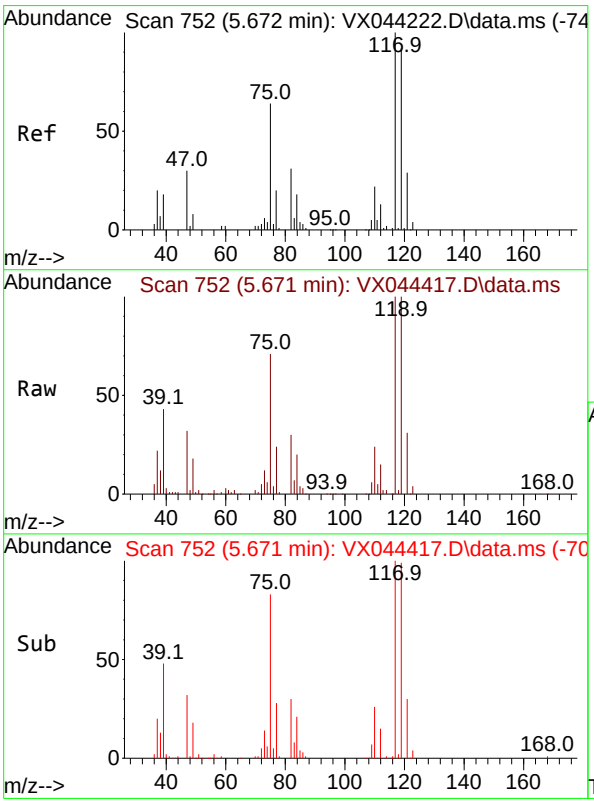
#37
Ethyl Acetate
Concen: 43.755 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 43 Resp: 103439

Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.8	14.8
70	9.6	7.7	11.5

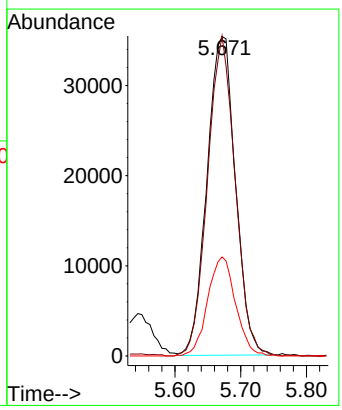


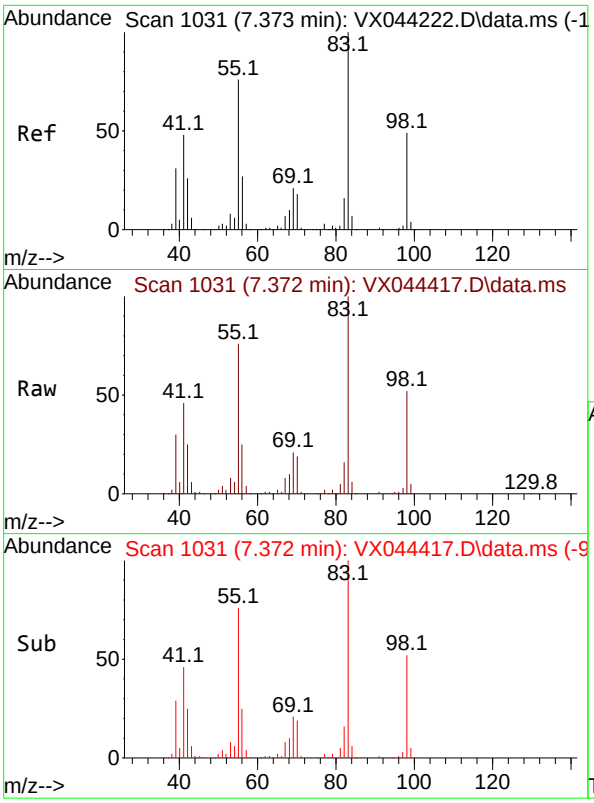


#38
Carbon Tetrachloride
Concen: 51.832 ug/l
RT: 5.671 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:117 Resp: 106720

Ion	Ratio	Lower	Upper
117	100		
119	100.2	74.2	111.4
121	31.1	23.0	34.6



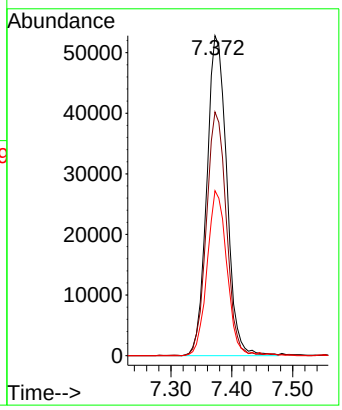


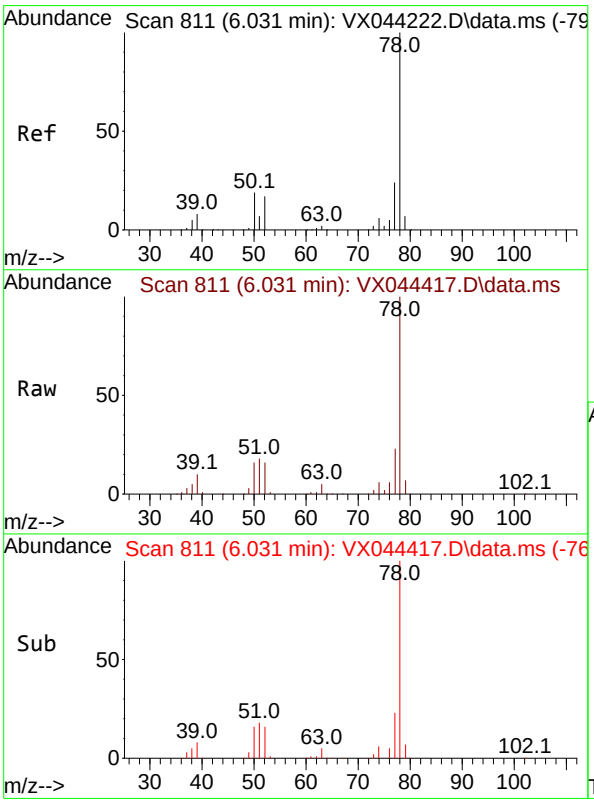
#39
Methylcyclohexane
Concen: 52.572 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 83 Resp: 120195

Ion	Ratio	Lower	Upper
83	100		
55	76.0	60.7	91.1
98	51.6	38.9	58.3

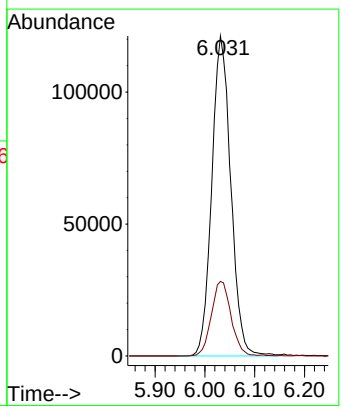


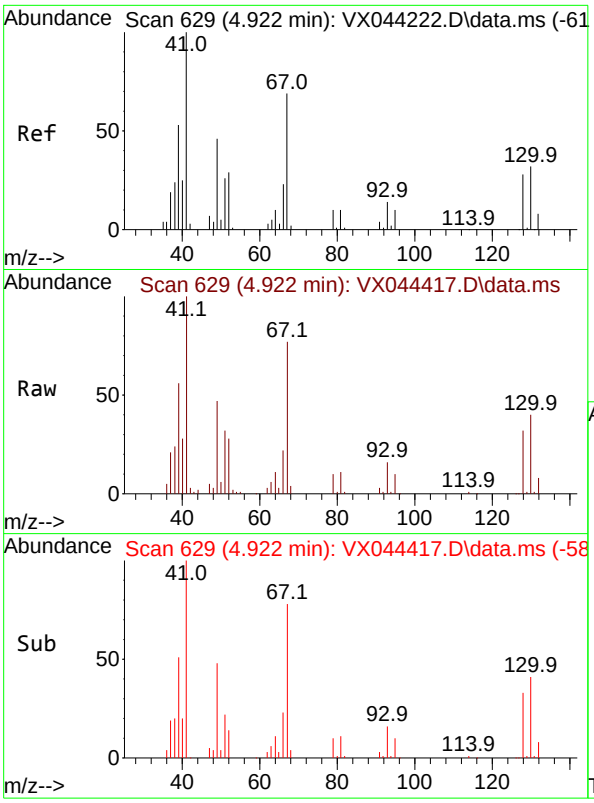


#40
Benzene
Concen: 55.265 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 78 Resp: 320899

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.3	28.9



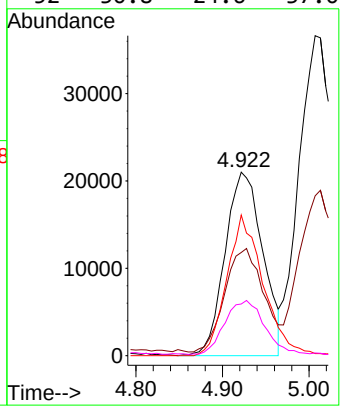


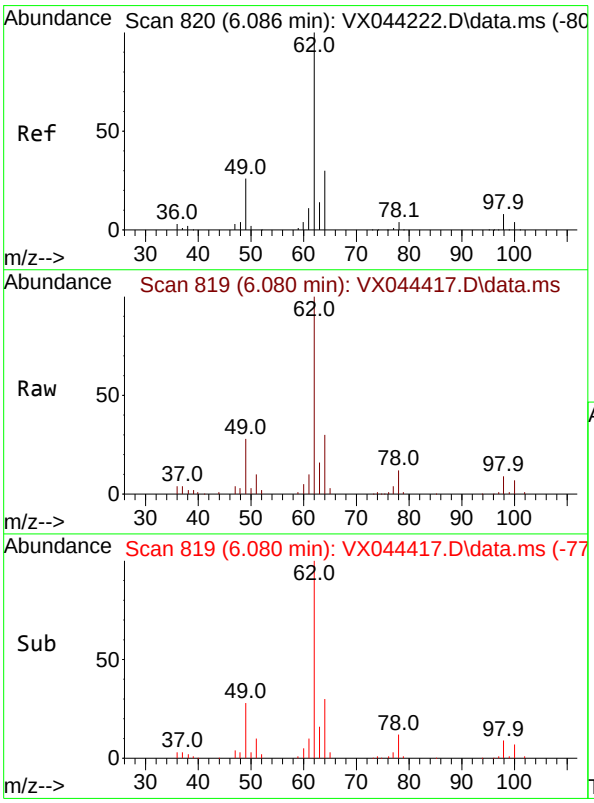
#41
Methacrylonitrile
Concen: 50.785 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 41 Resp: 63751

Ion	Ratio	Lower	Upper
41	100		
39	59.4	44.2	66.4
67	74.6	57.2	85.8
52	30.8	24.6	37.0

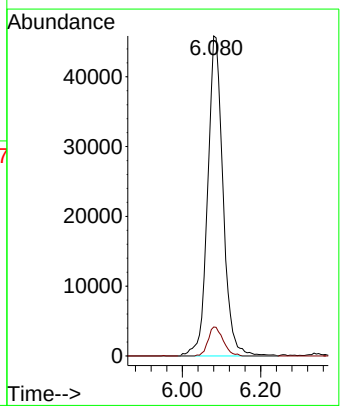


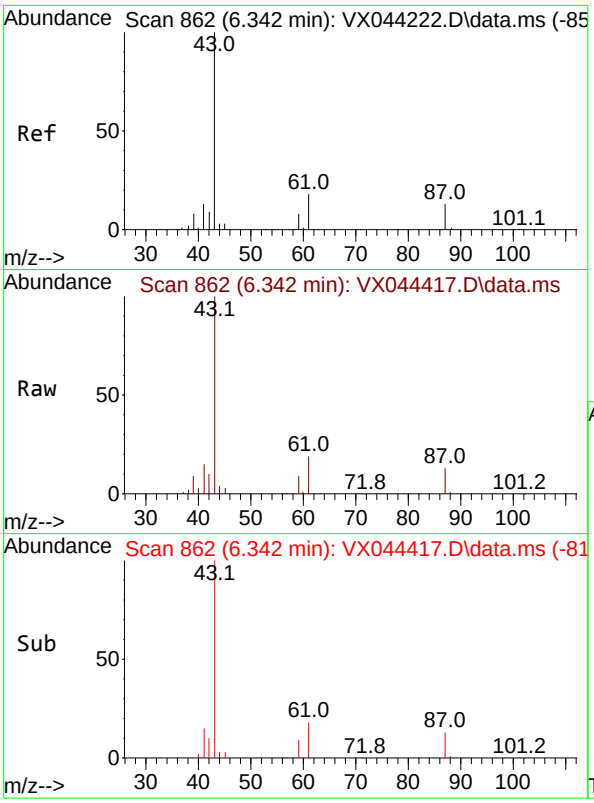


#42
1,2-Dichloroethane
Concen: 52.015 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 62 Resp: 124414

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	15.8



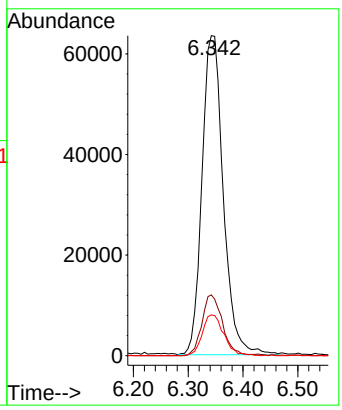


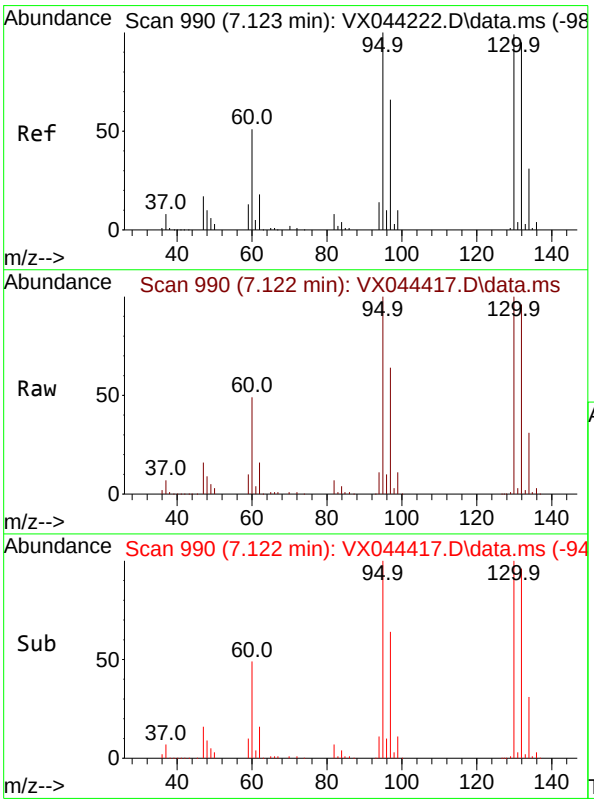
#43
Isopropyl Acetate
Concen: 46.279 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 43 Resp: 170996

Ion	Ratio	Lower	Upper
43	100		
61	18.4	14.2	21.2
87	12.9	10.2	15.2

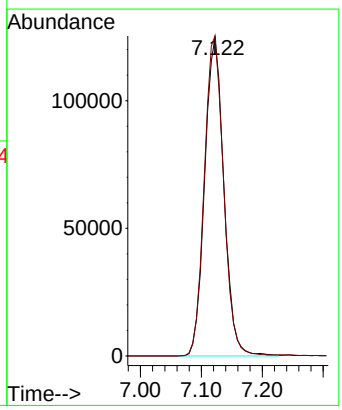


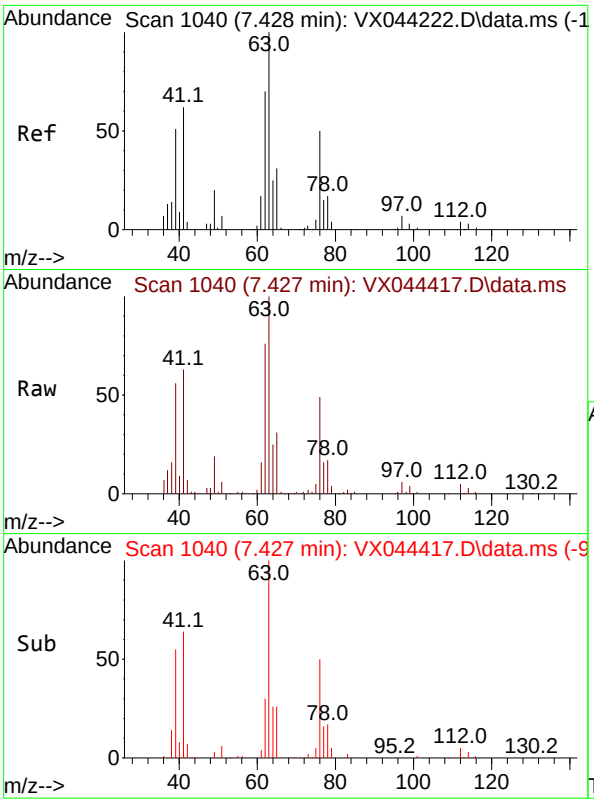


#44
Trichloroethene
Concen: 188.381 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:130 Resp: 272774

Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	201.4



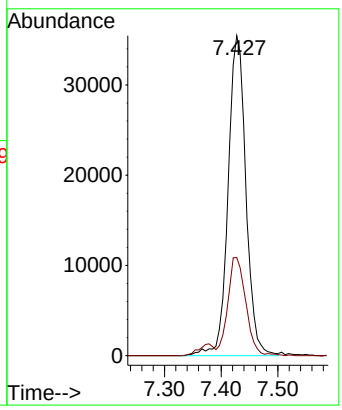


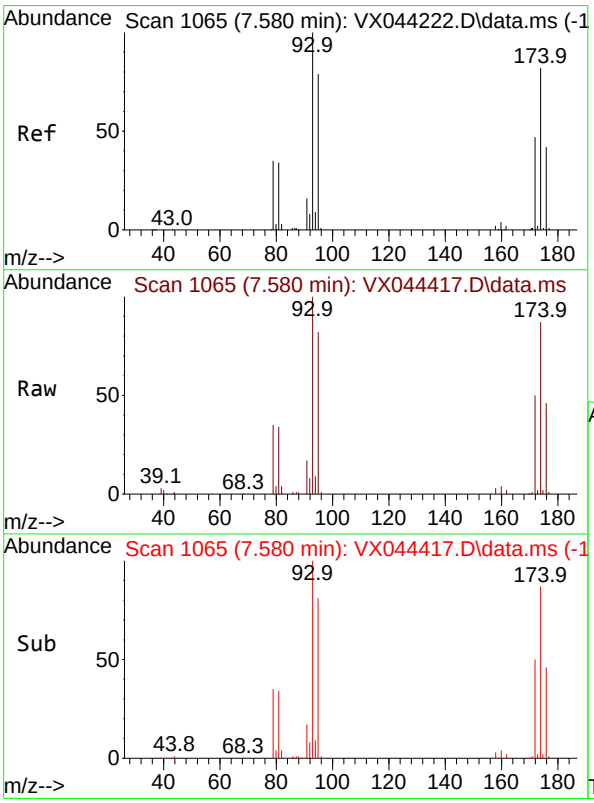
#45
1,2-Dichloropropane
Concen: 52.158 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 63 Resp: 77375

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.6	37.0

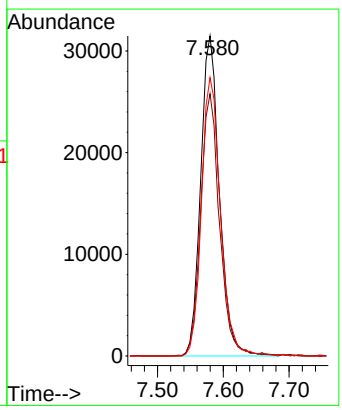


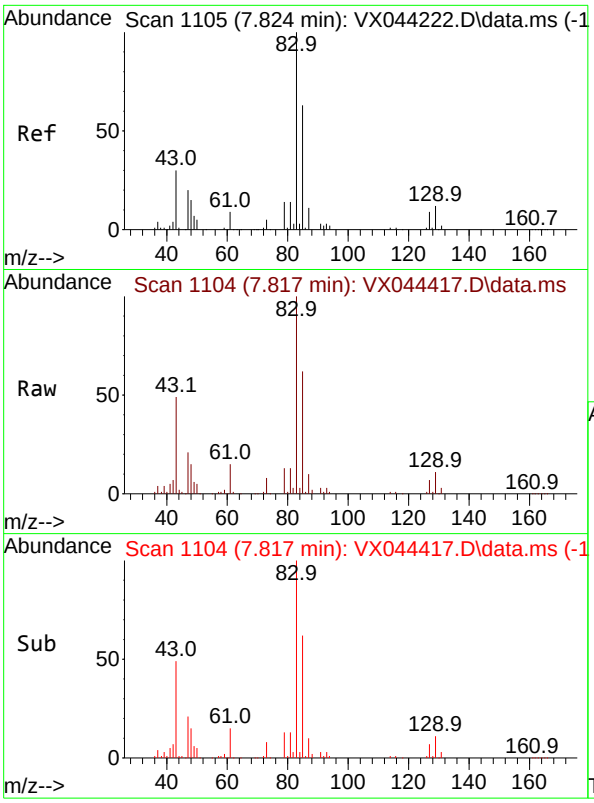


#46
Dibromomethane
Concen: 54.327 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 93 Resp: 62524

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.4	98.2
174	88.2	67.9	101.9



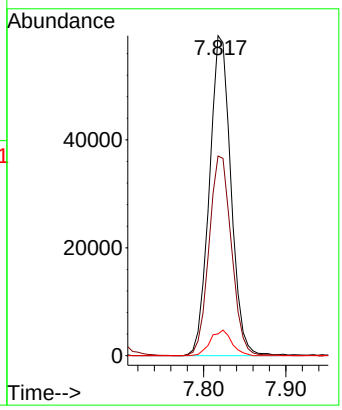


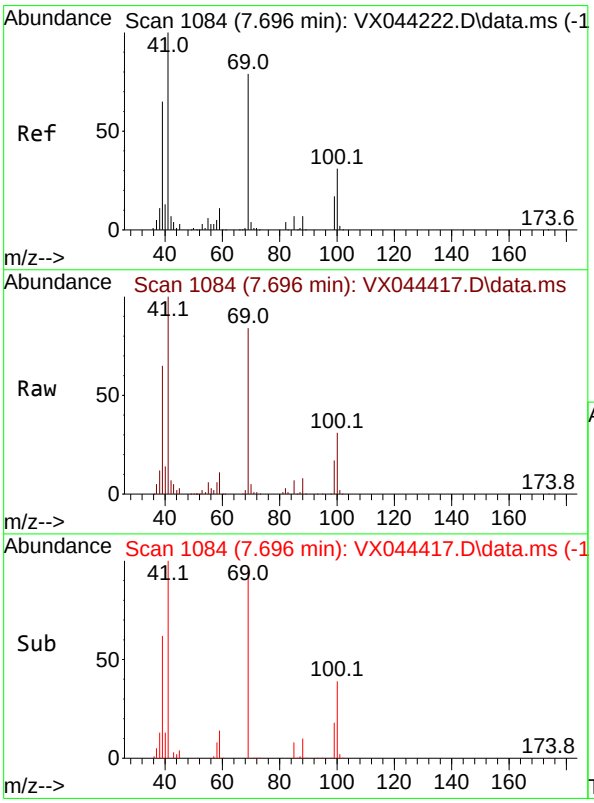
#47
Bromodichloromethane
Concen: 54.314 ug/l
RT: 7.817 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a...

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 83 Resp: 107956

Ion	Ratio	Lower	Upper
83	100		
85	62.4	50.6	75.8
127	6.8	7.3	10.9#

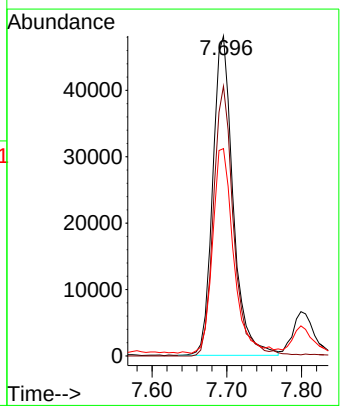


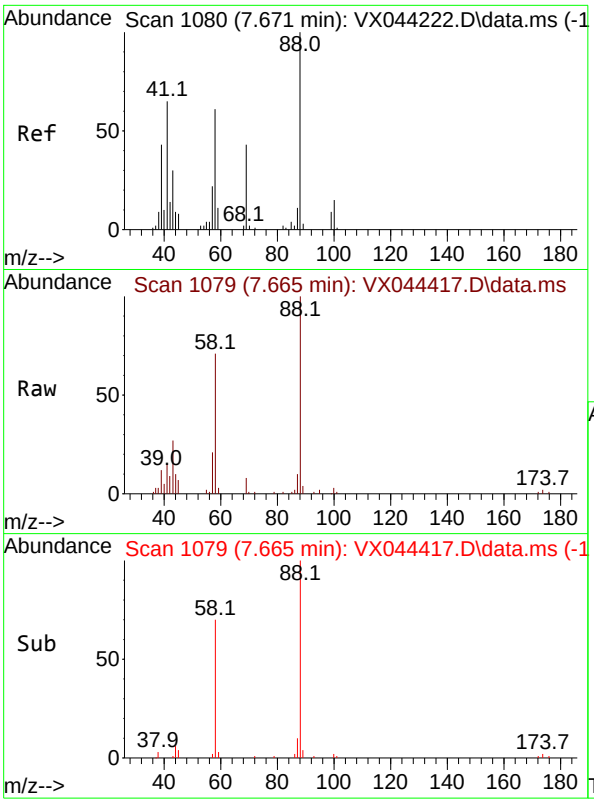


#48
Methyl methacrylate
Concen: 50.787 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 41 Resp: 91092

Ion	Ratio	Lower	Upper
41	100		
69	83.6	62.4	93.6
39	66.2	53.3	79.9



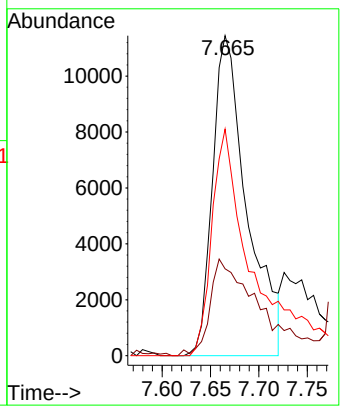


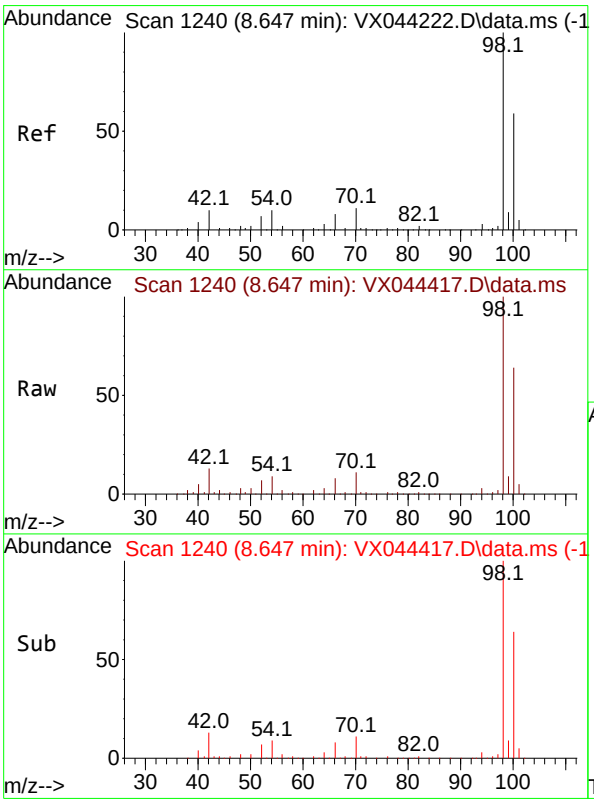
#49
1,4-Dioxane
Concen: 956.536 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 88 Resp: 28445

Ion	Ratio	Lower	Upper
88	100		
43	43.2	27.1	40.7#
58	83.2	41.0	61.4#

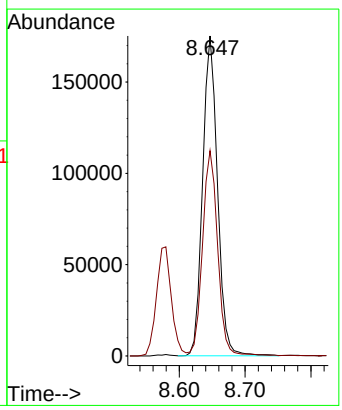


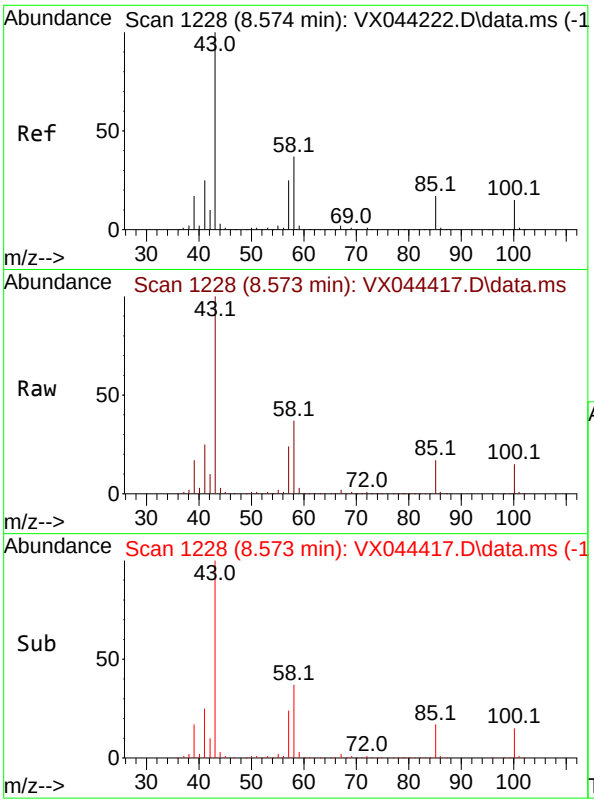


#50
Toluene-d8
Concen: 55.215 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 98 Resp: 275601

Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.5	77.3



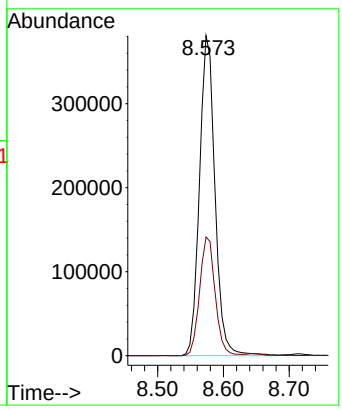


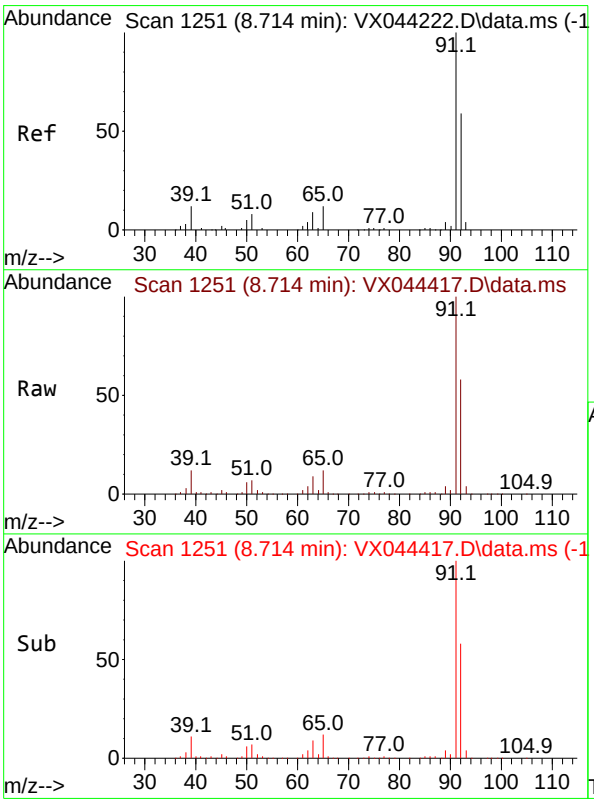
#51
4-Methyl-2-Pentanone
Concen: 262.151 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 43 Resp: 622807

Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.4	44.0

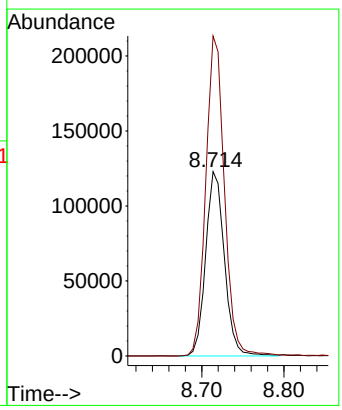


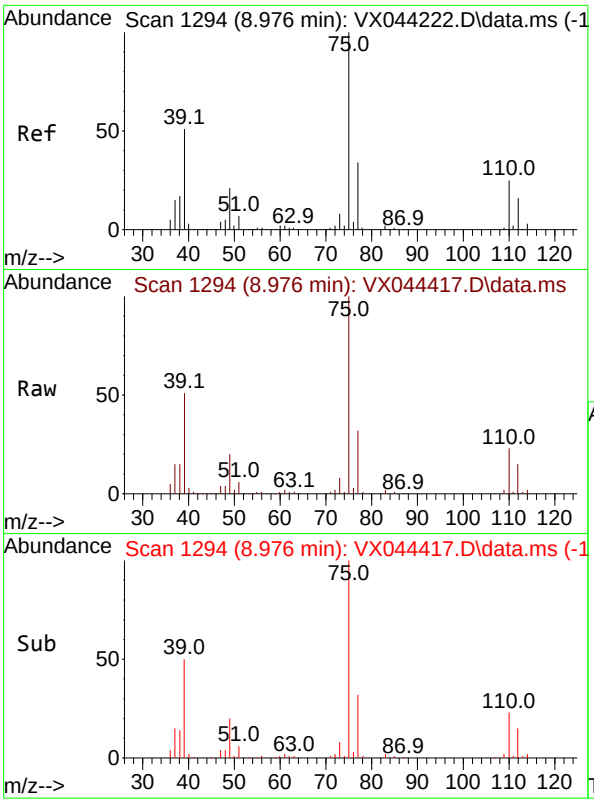


#52
Toluene
Concen: 53.428 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 92 Resp: 194818

Ion	Ratio	Lower	Upper
92	100		
91	172.7	137.0	205.6



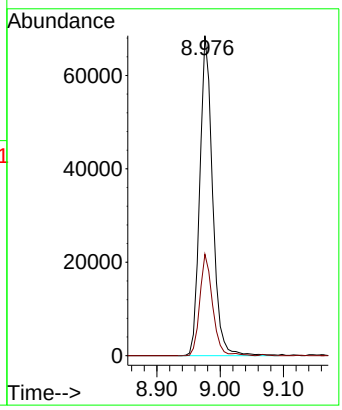


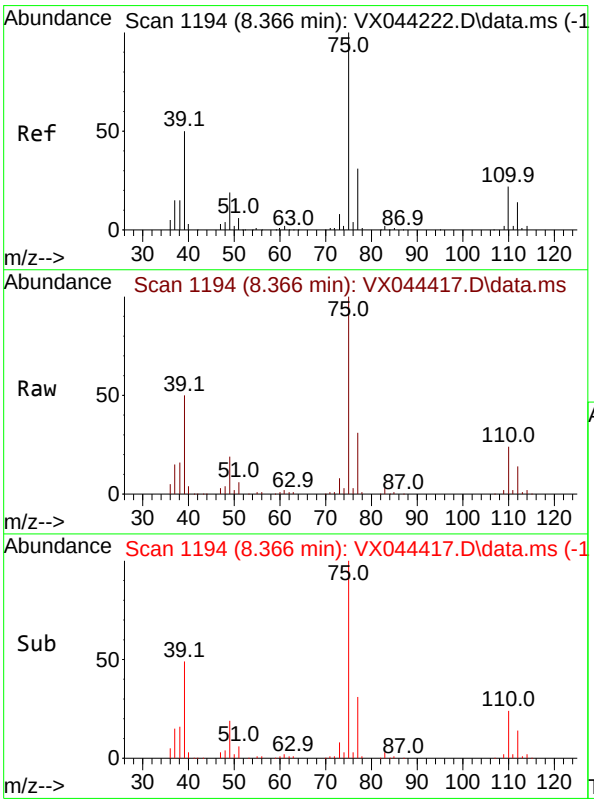
#53
t-1,3-Dichloropropene
Concen: 45.626 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 75 Resp: 96722

Ion	Ratio	Lower	Upper
75	100		
77	31.7	27.2	40.8

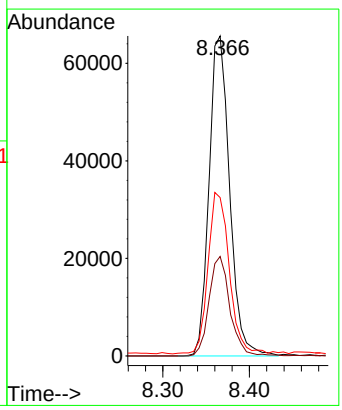


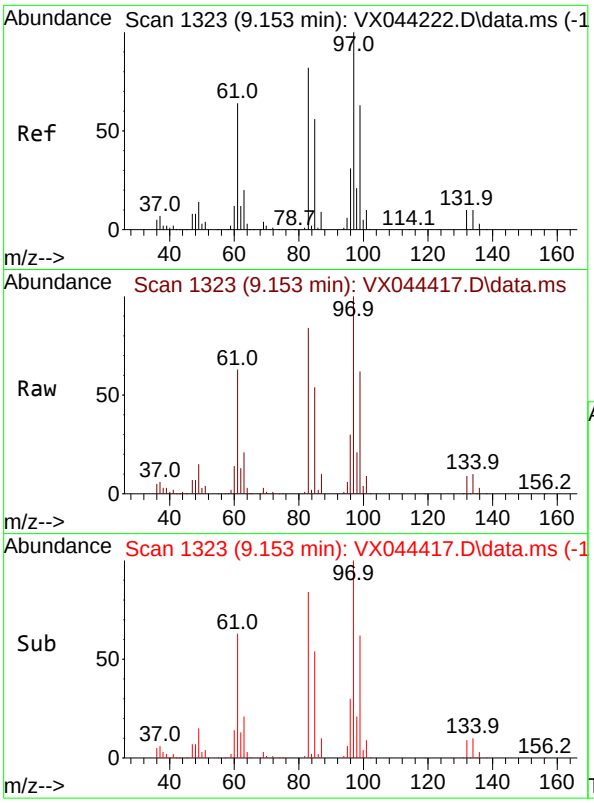


#54
cis-1,3-Dichloropropene
Concen: 50.056 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 75 Resp: 108330

Ion	Ratio	Lower	Upper
75	100		
77	31.1	24.7	37.1
39	48.7	40.3	60.5



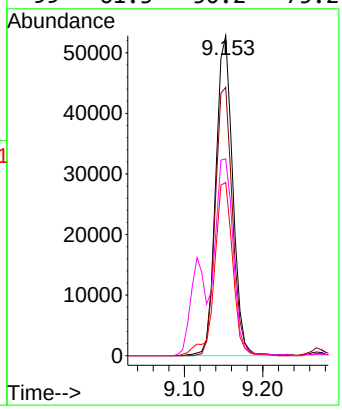


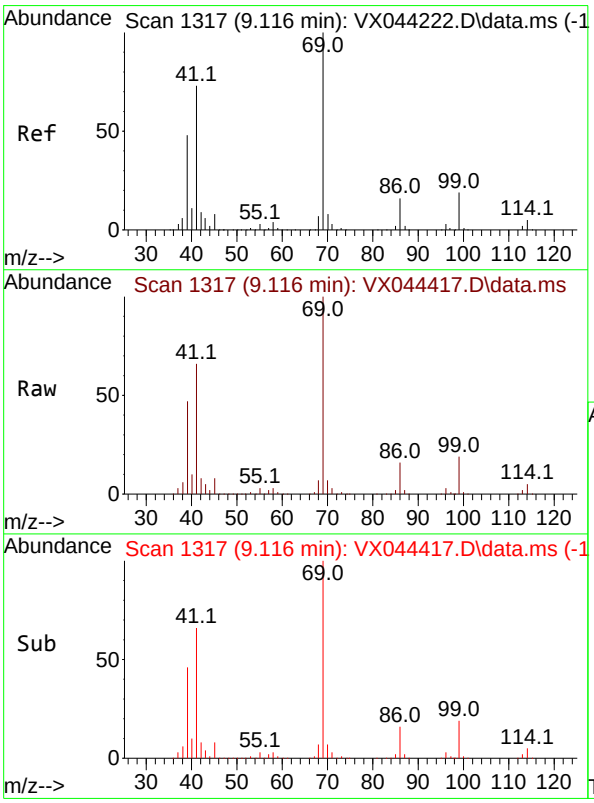
#55
1,1,2-Trichloroethane
Concen: 54.999 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 97 Resp: 79671

Ion	Ratio	Lower	Upper
97	100		
83	83.9	65.3	97.9
85	54.1	44.6	67.0
99	61.3	50.2	75.2

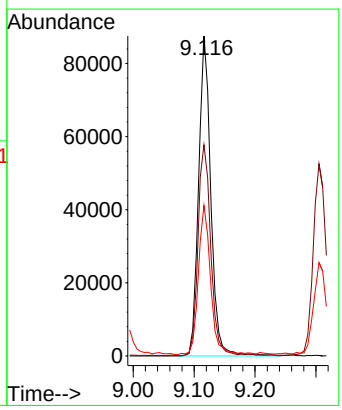


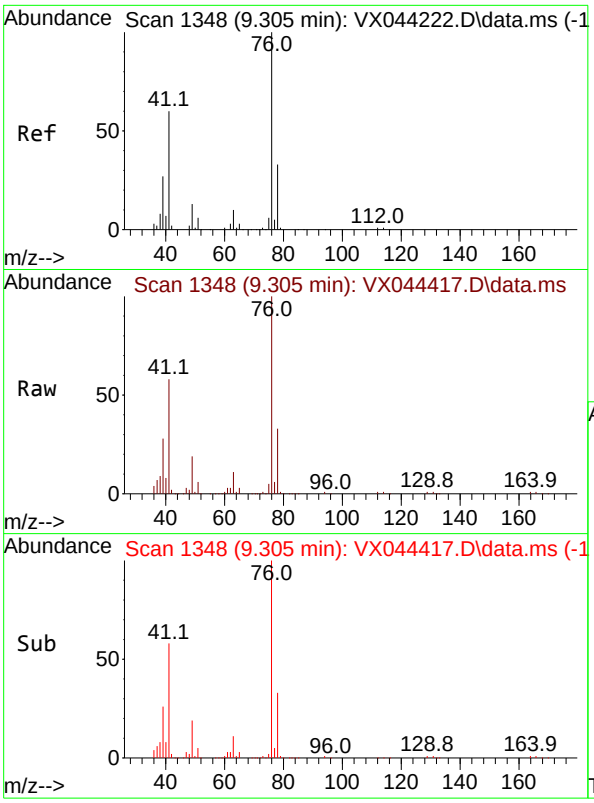


#56
Ethyl methacrylate
Concen: 53.425 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 69 Resp: 122174

Ion	Ratio	Lower	Upper
69	100		
41	68.2	56.6	85.0
39	46.3	37.4	56.0



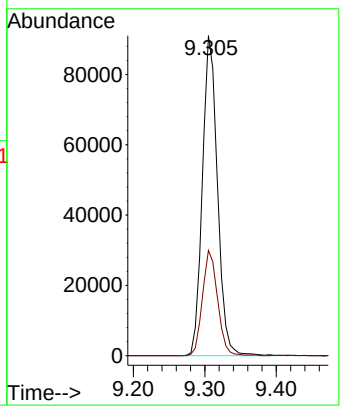


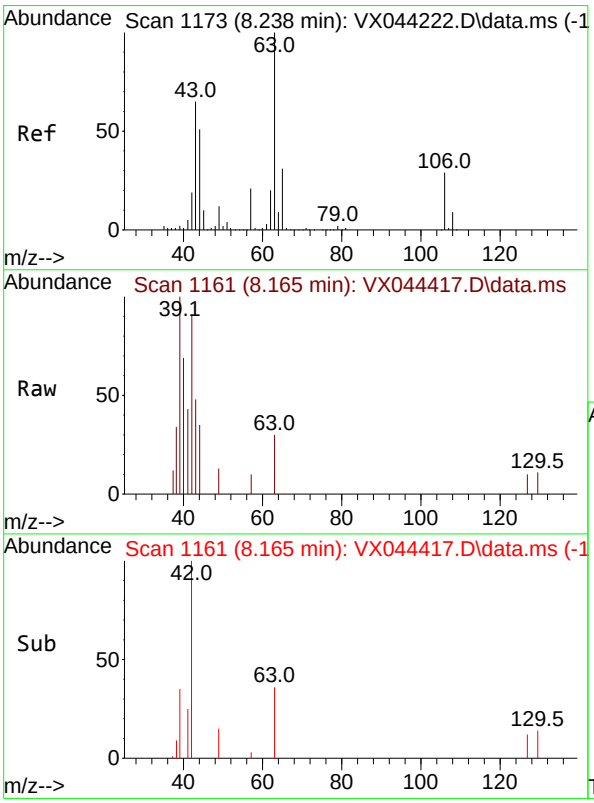
#57
1,3-Dichloropropane
Concen: 52.852 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a...

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 76 Resp: 133261

Ion	Ratio	Lower	Upper
76	100		
78	33.1	26.5	39.7

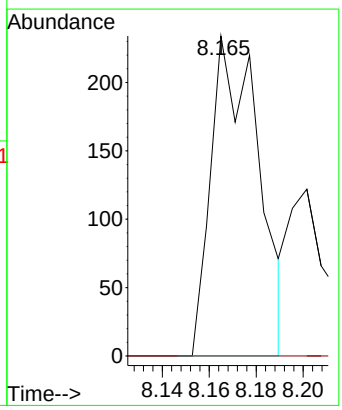


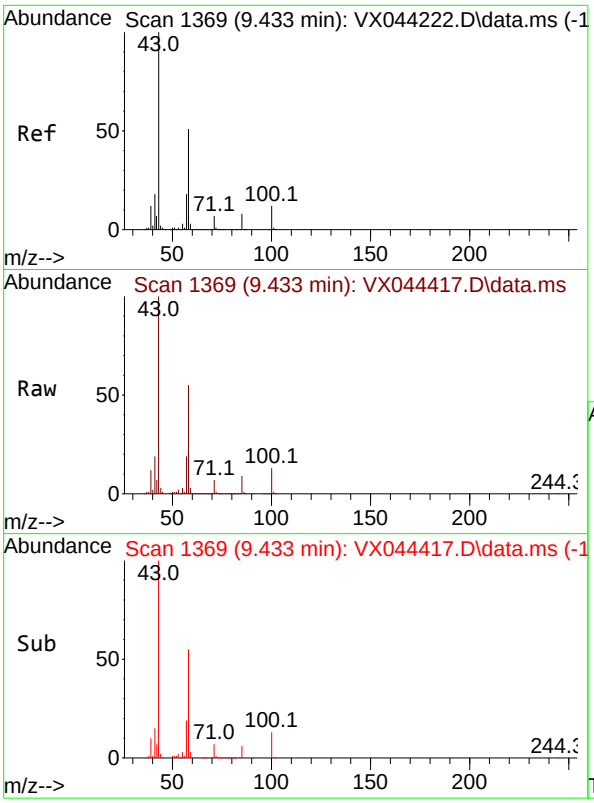


#58
2-Chloroethyl Vinyl ether
Concen: 0.284 ug/l
RT: 8.165 min Scan# 1161
Delta R.T. -0.073 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 63 Resp: 328

Ion	Ratio	Lower	Upper
63	100		
106	0.0	22.8	34.2#



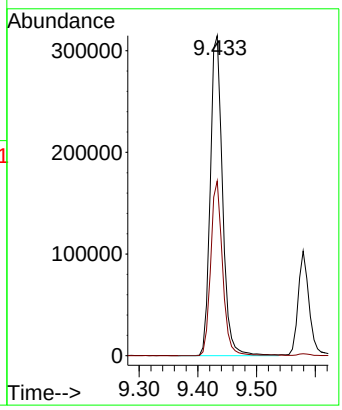


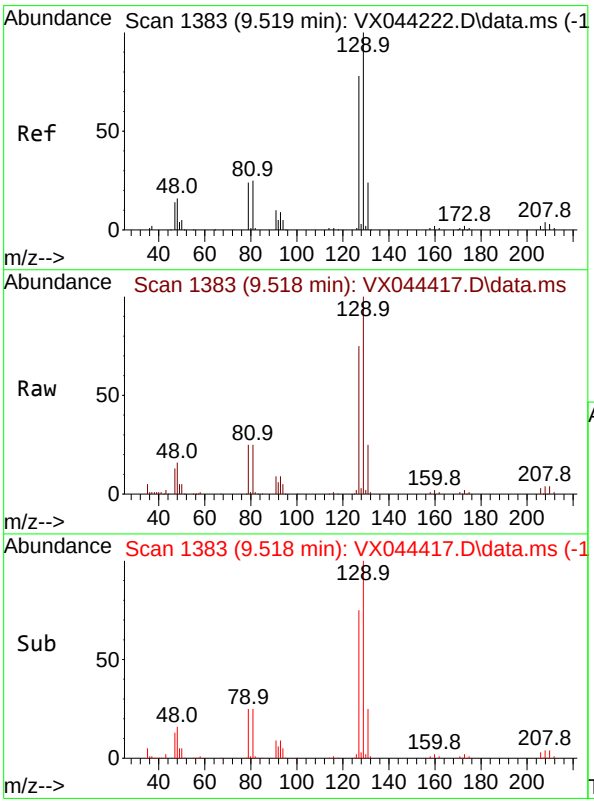
#59
2-Hexanone
Concen: 265.129 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 ...

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 43 Resp: 455924

Ion	Ratio	Lower	Upper
43	100		
58	53.0	25.7	77.0

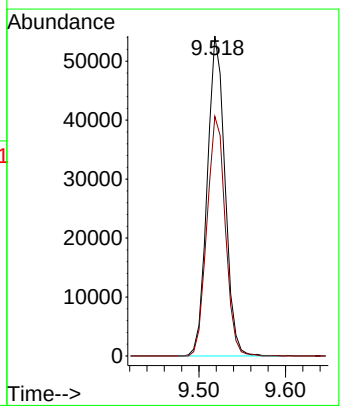


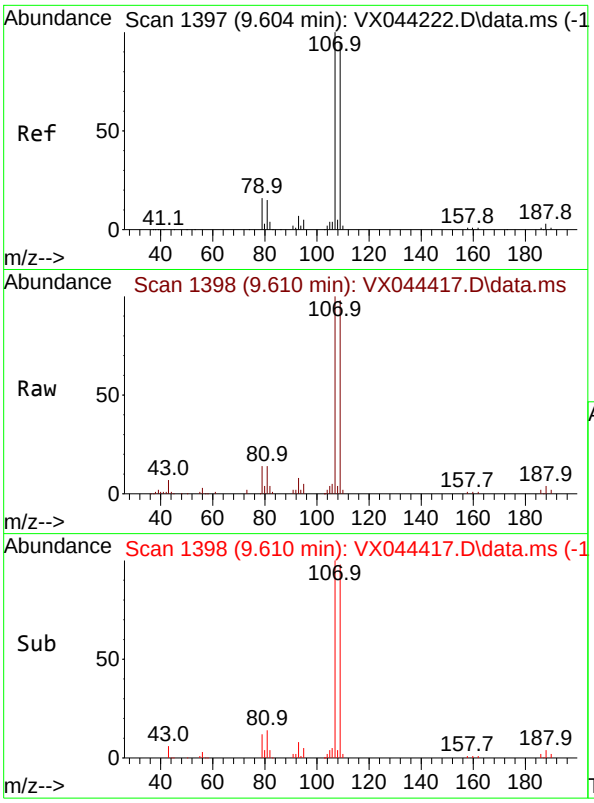


#60
Dibromochloromethane
Concen: 50.234 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:129 Resp: 77087

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.5	115.3



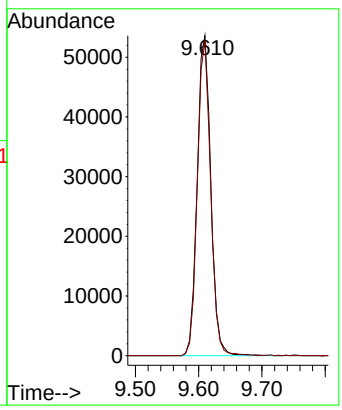


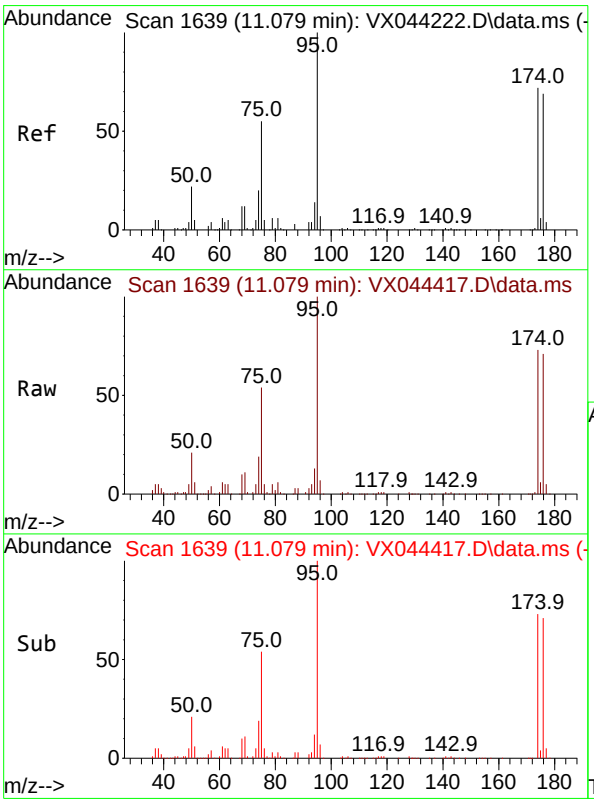
#61
1,2-Dibromoethane
Concen: 54.550 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 ...

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:107 Resp: 80434

Ion	Ratio	Lower	Upper
107	100		
109	95.9	77.0	115.4

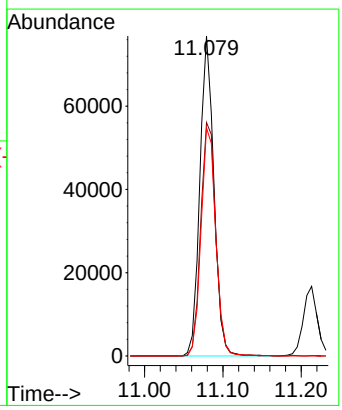


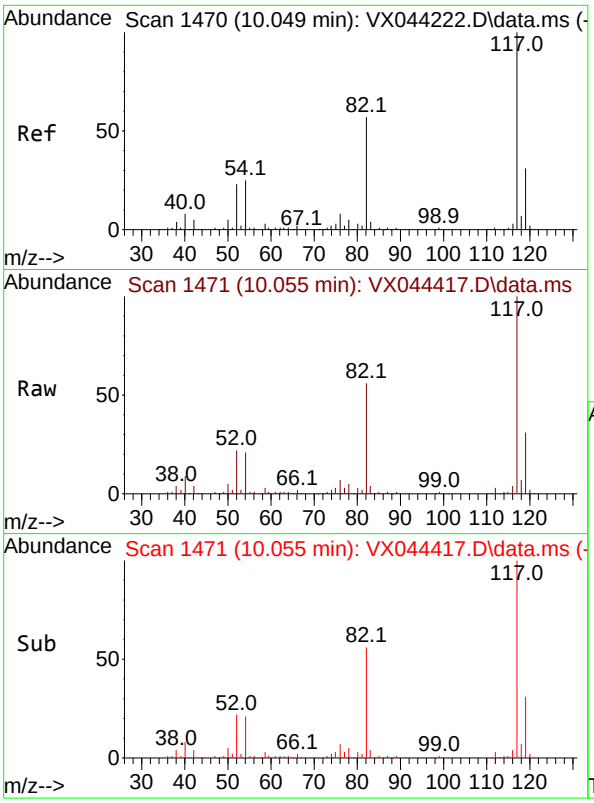


#62
4-Bromofluorobenzene
Concen: 54.763 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 95 Resp: 95512

Ion	Ratio	Lower	Upper
95	100		
174	78.0	0.0	145.8
176	74.8	0.0	137.8



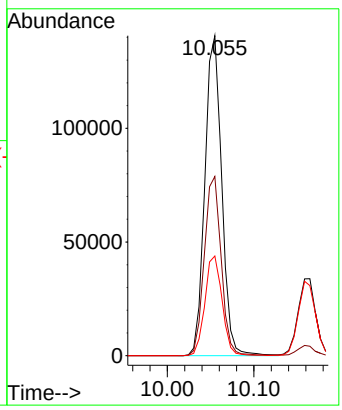


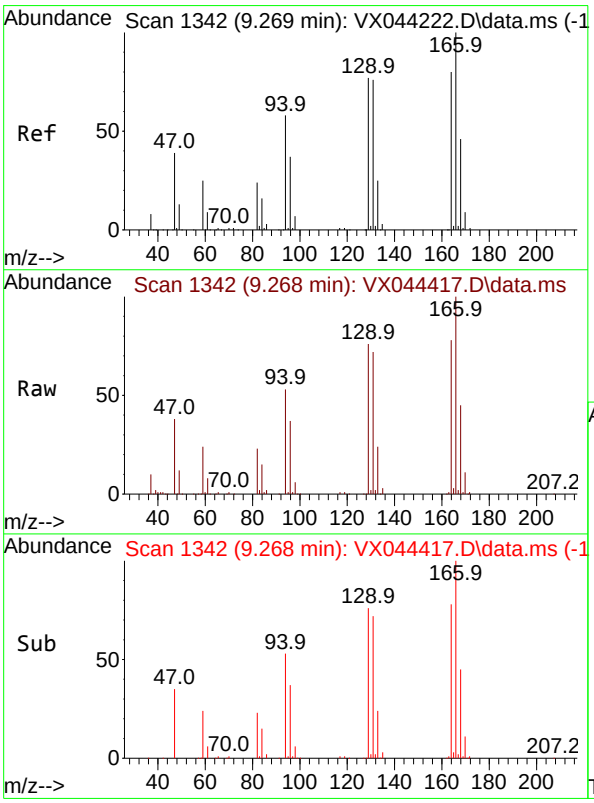
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a...

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:117 Resp: 190465

Ion	Ratio	Lower	Upper
117	100		
82	56.0	45.8	68.8
119	31.2	25.0	37.4

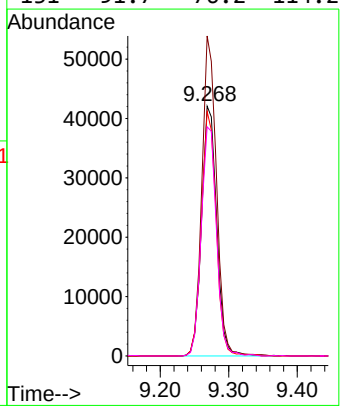


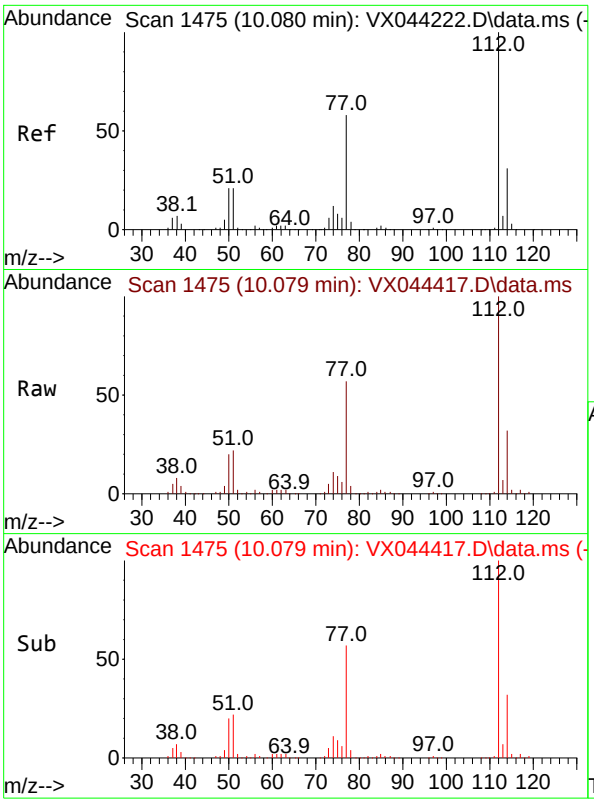


#64
Tetrachloroethene
Concen: 51.043 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:164 Resp: 64526

Ion	Ratio	Lower	Upper
164	100		
166	128.1	100.4	150.6
129	97.9	77.2	115.8
131	91.7	76.2	114.2



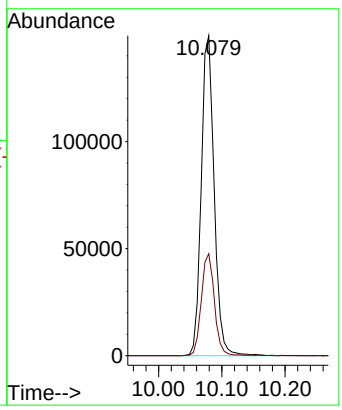


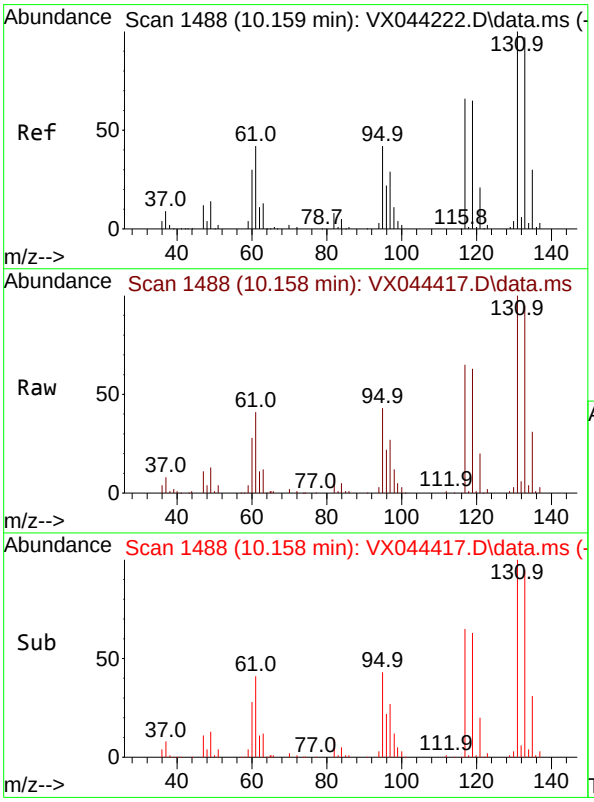
#65
Chlorobenzene
Concen: 52.067 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:112 Resp: 212499

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.0	37.6

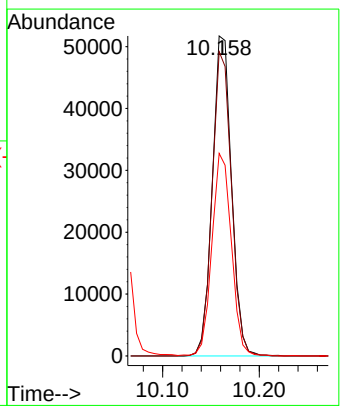


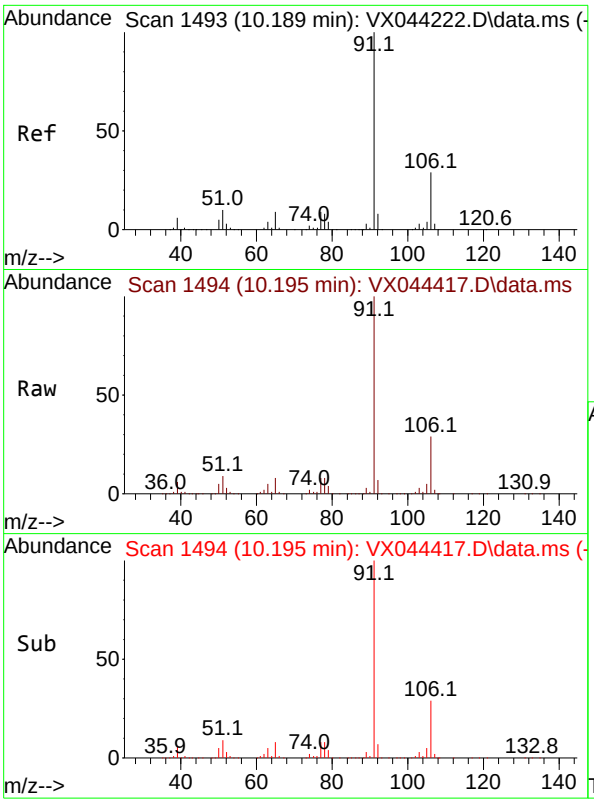


#66
1,1,1,2-Tetrachloroethane
Concen: 54.299 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:131 Resp: 71222

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.3	141.8
119	64.3	31.6	95.0



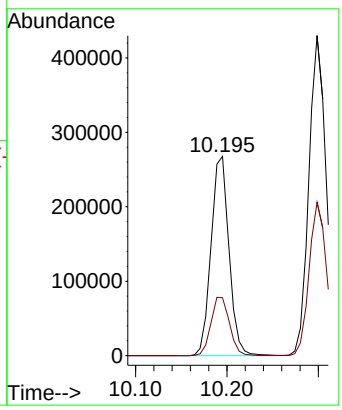


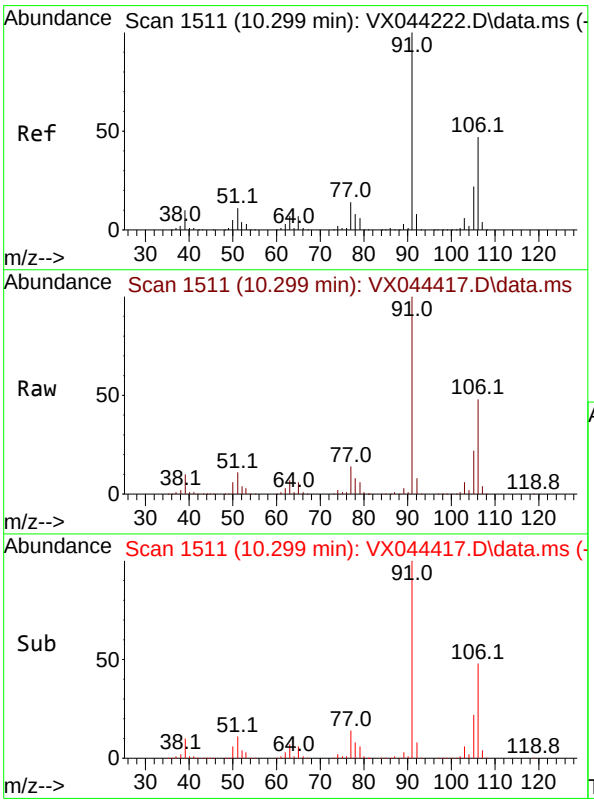
#67
Ethyl Benzene
Concen: 51.729 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a...

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 91 Resp: 364782

Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.5	35.3

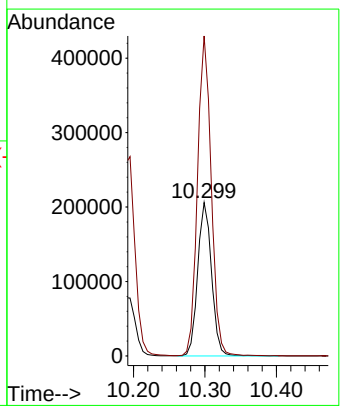


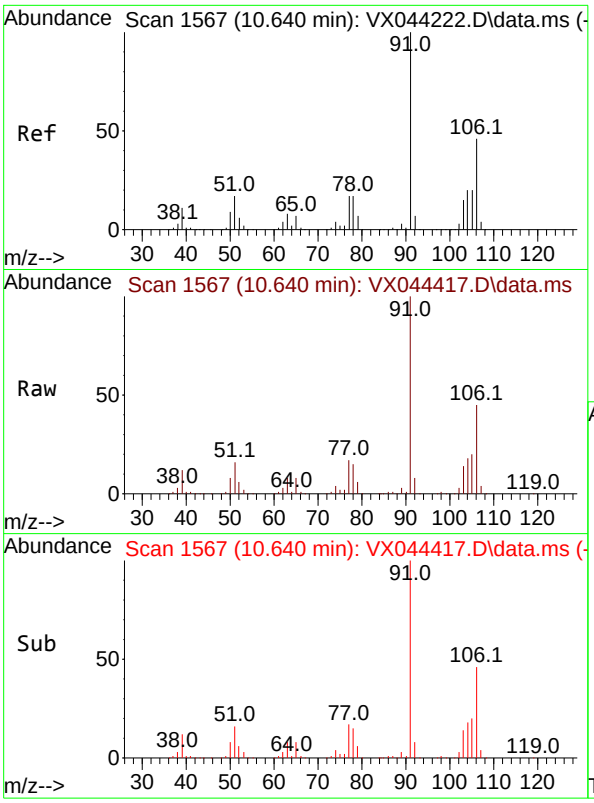


#68
m/p-Xylenes
Concen: 106.816 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:106 Resp: 276393

Ion	Ratio	Lower	Upper
106	100		
91	206.6	170.2	255.2



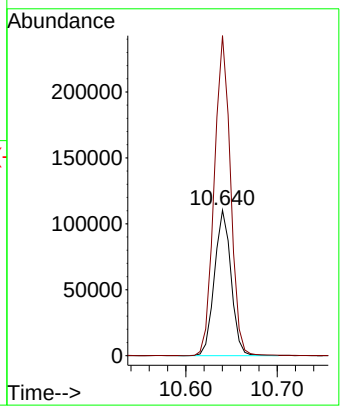


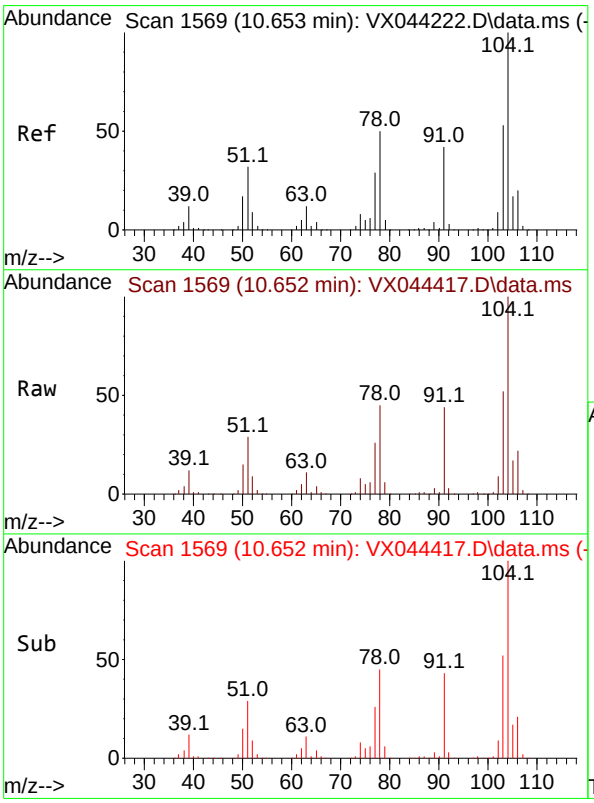
#69
o-Xylene
Concen: 53.138 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:106 Resp: 139121

Ion	Ratio	Lower	Upper
106	100		
91	215.9	112.3	337.0

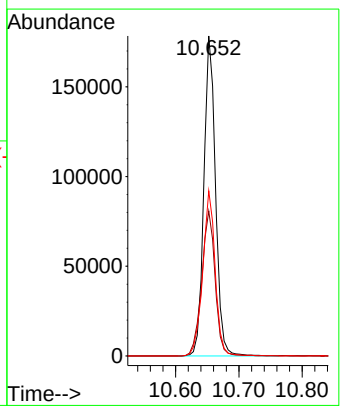


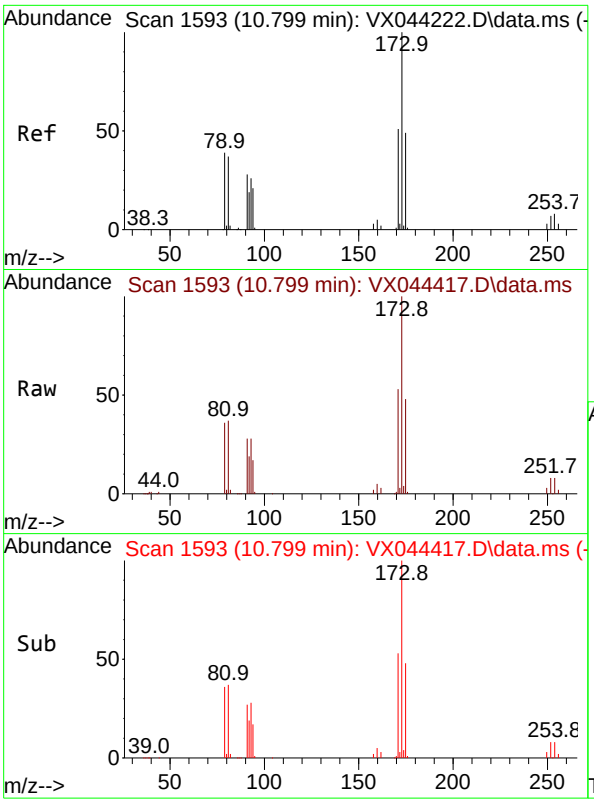


#70
Styrene
Concen: 54.597 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:104 Resp: 229145

Ion	Ratio	Lower	Upper
104	100		
78	52.2	44.6	67.0
103	55.4	45.4	68.0



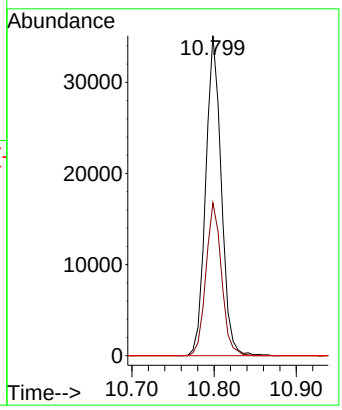


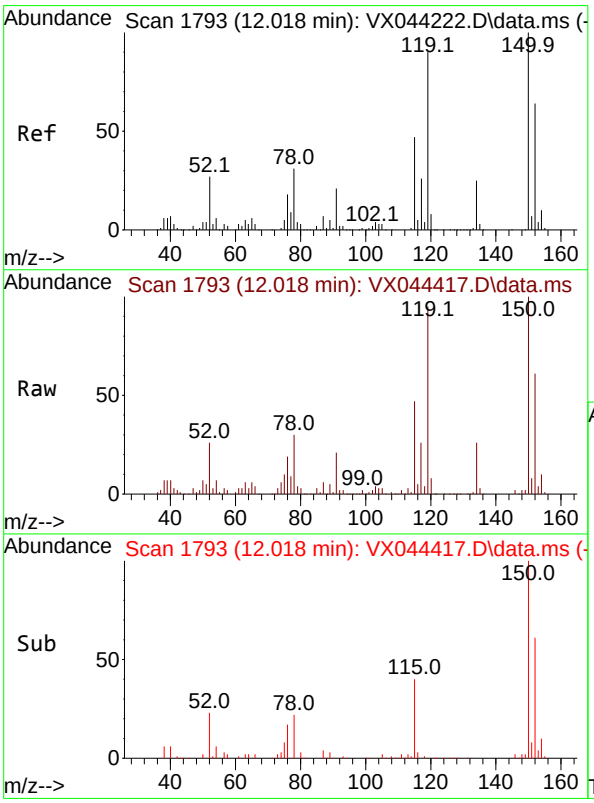
#71
Bromoform
Concen: 50.371 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:173 Resp: 46210

Ion	Ratio	Lower	Upper
173	100		
175	47.9	23.8	71.4
254	0.0	0.0	0.0

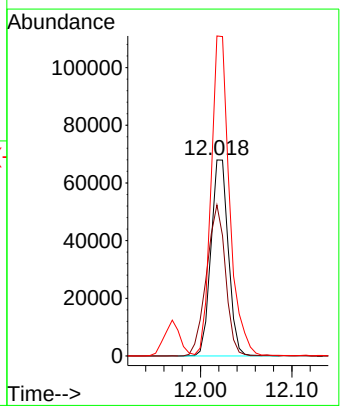


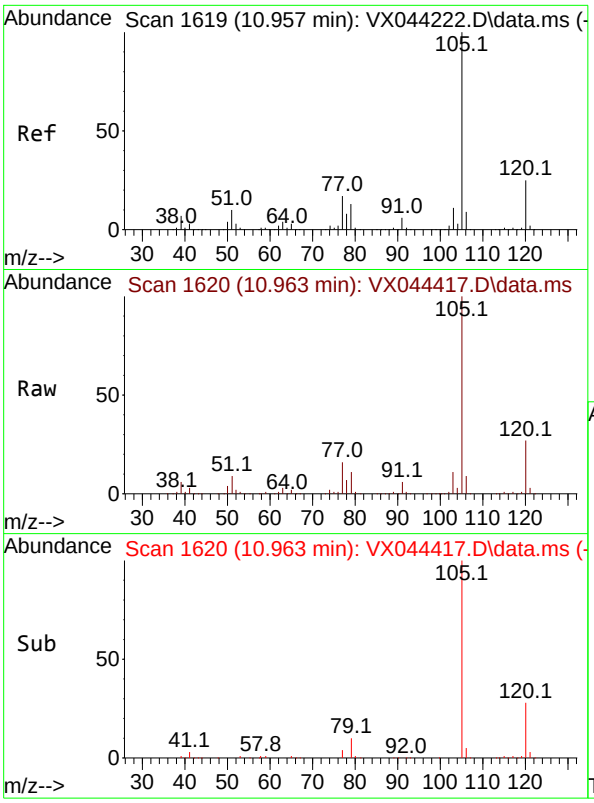


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:152 Resp: 89259

Ion	Ratio	Lower	Upper
152	100		
115	84.6	44.5	133.3
150	173.8	0.0	353.8



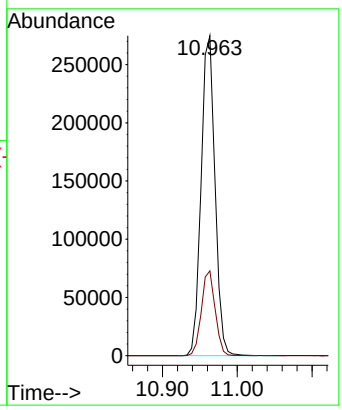


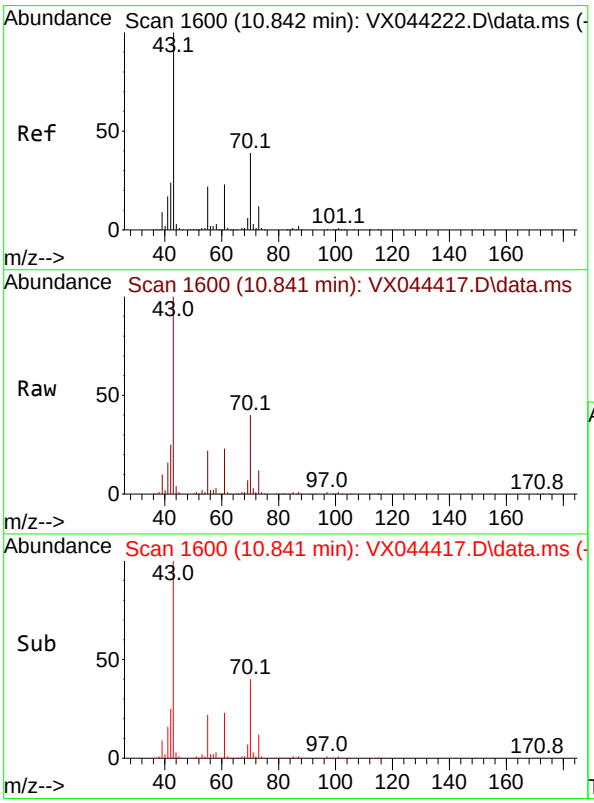
#73
Isopropylbenzene
Concen: 51.758 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:105 Resp: 353672

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.1	39.3

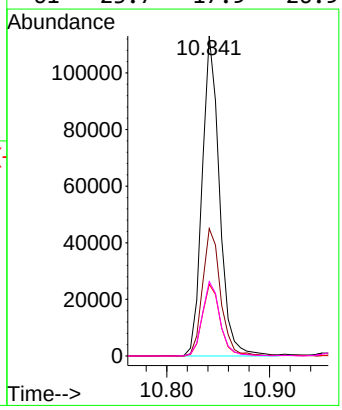


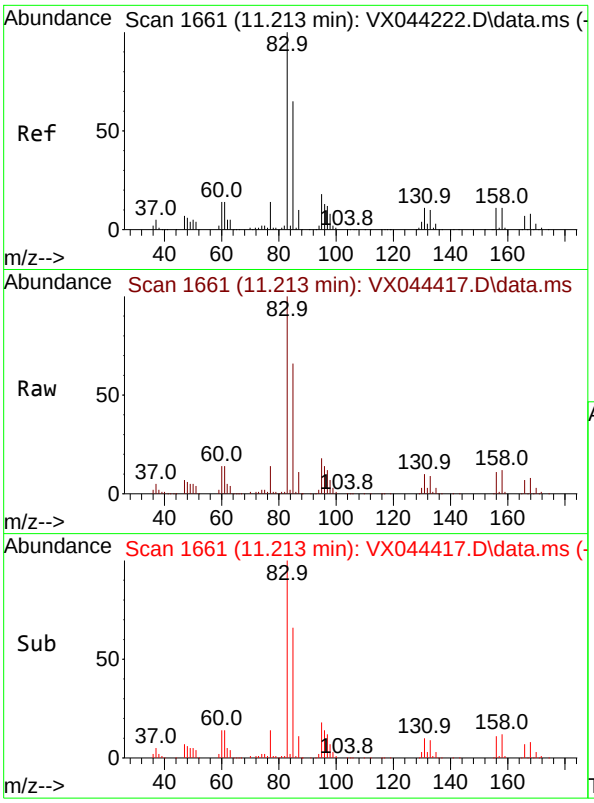


#74
N-amyl acetate
Concen: 42.122 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 43 Resp: 133021

Ion	Ratio	Lower	Upper
43	100		
70	41.3	31.9	47.9
55	23.2	17.9	26.9
61	23.7	17.9	26.9



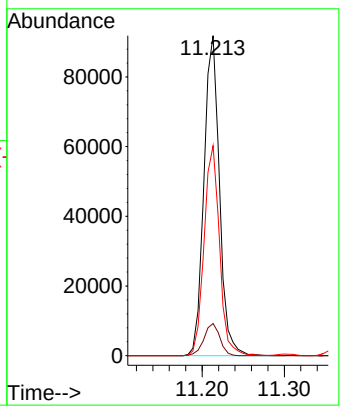


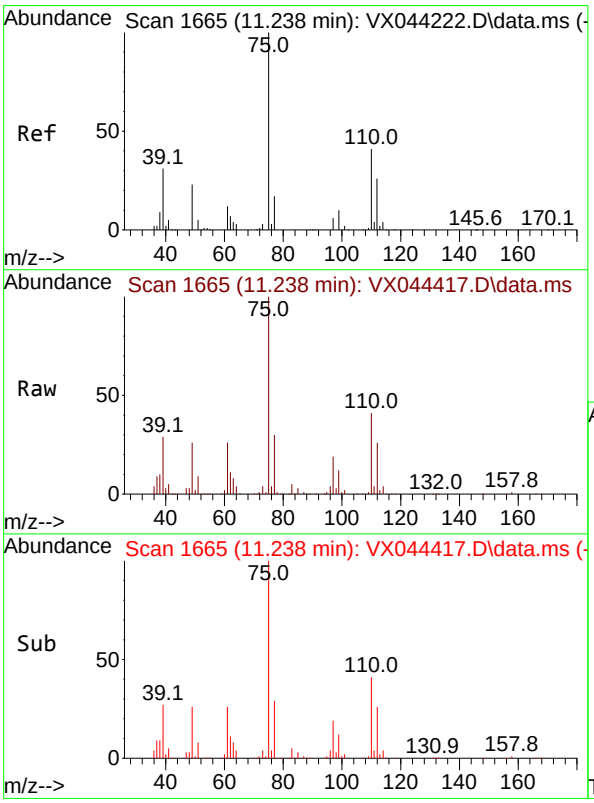
#75
1,1,2,2-Tetrachloroethane
Concen: 50.787 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 83 Resp: 120537

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	65.1	32.5	97.4

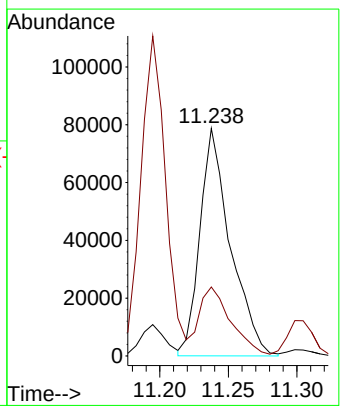


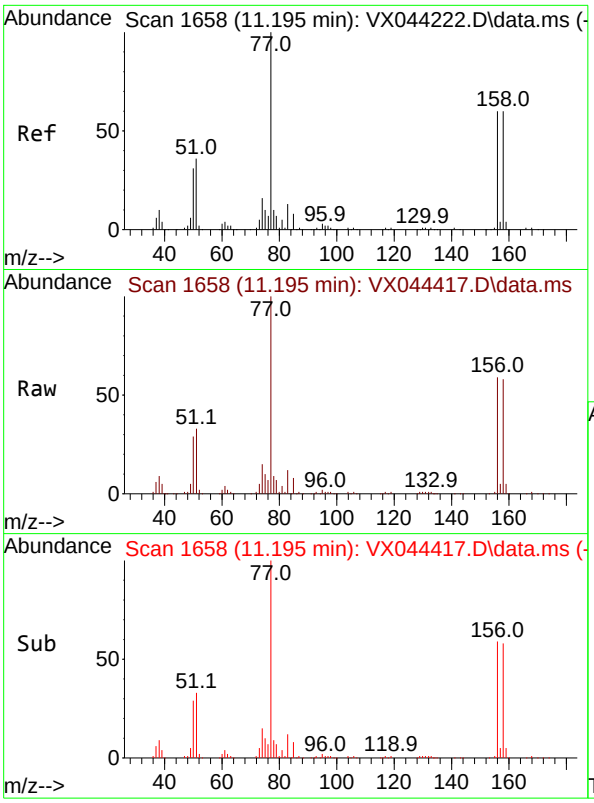


#76
1,2,3-Trichloropropane
Concen: 61.269 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 75 Resp: 122106

Ion	Ratio	Lower	Upper
75	100		
77	31.7	20.9	62.7



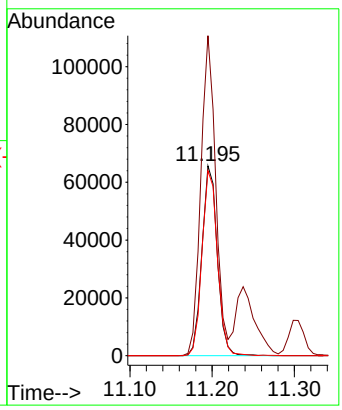


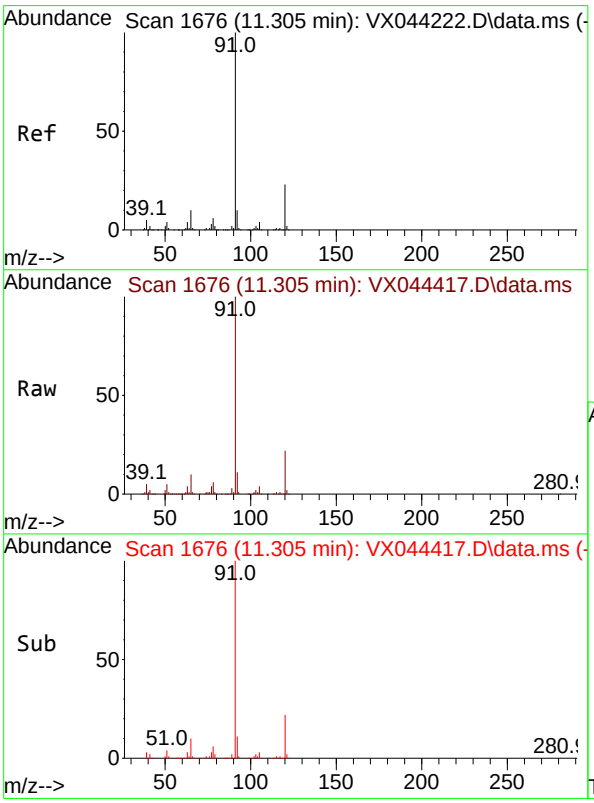
#77
Bromobenzene
Concen: 51.358 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:156 Resp: 85100

Ion	Ratio	Lower	Upper
156	100		
77	163.5	82.6	247.8
158	98.1	48.8	146.4

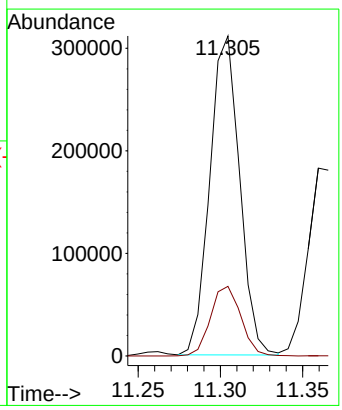


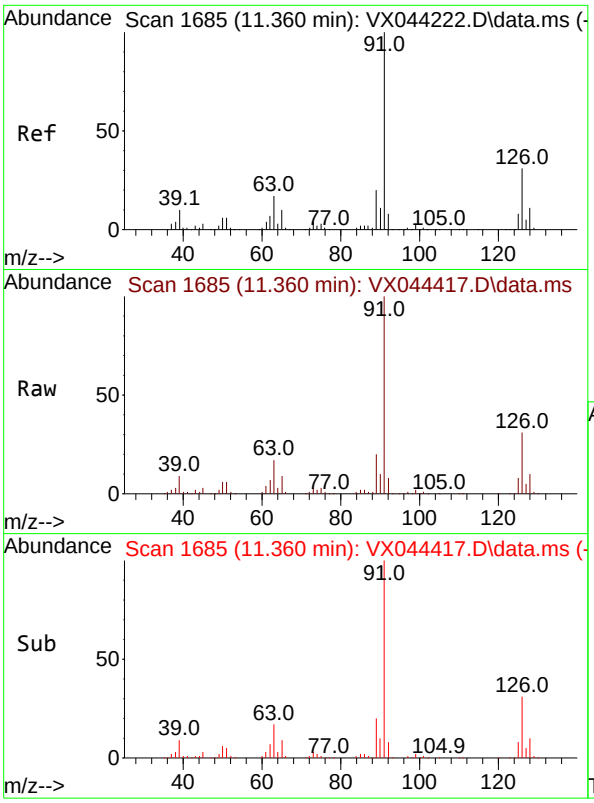


#78
n-propylbenzene
Concen: 52.064 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 91 Resp: 393213

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.0	33.0



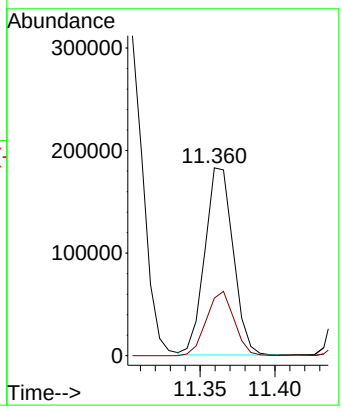


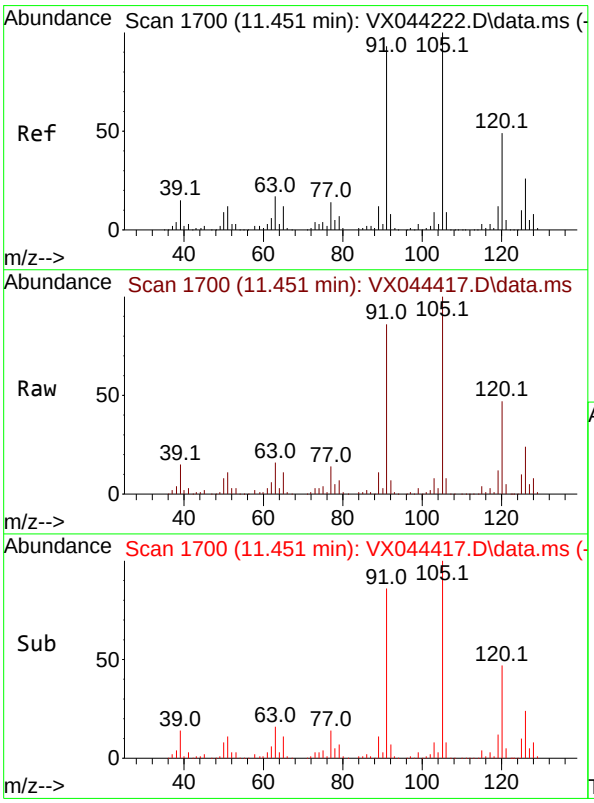
#79
2-Chlorotoluene
Concen: 49.418 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 91 Resp: 241377

Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.4	49.1

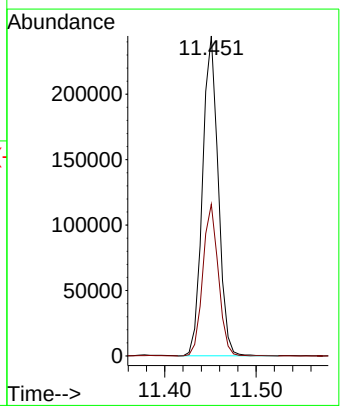


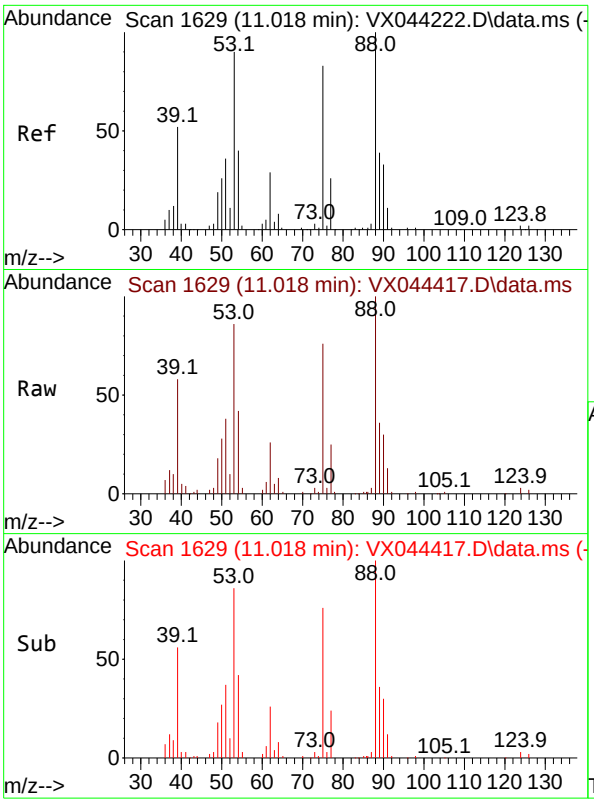


#80
1,3,5-Trimethylbenzene
Concen: 51.181 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:105 Resp: 290026

Ion	Ratio	Lower	Upper
105	100		
120	47.0	23.8	71.4



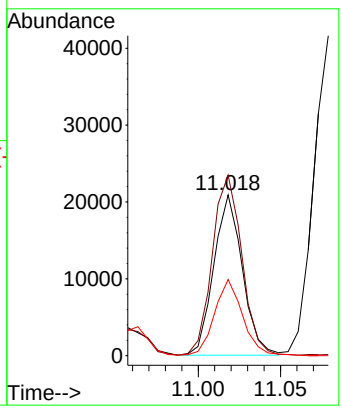


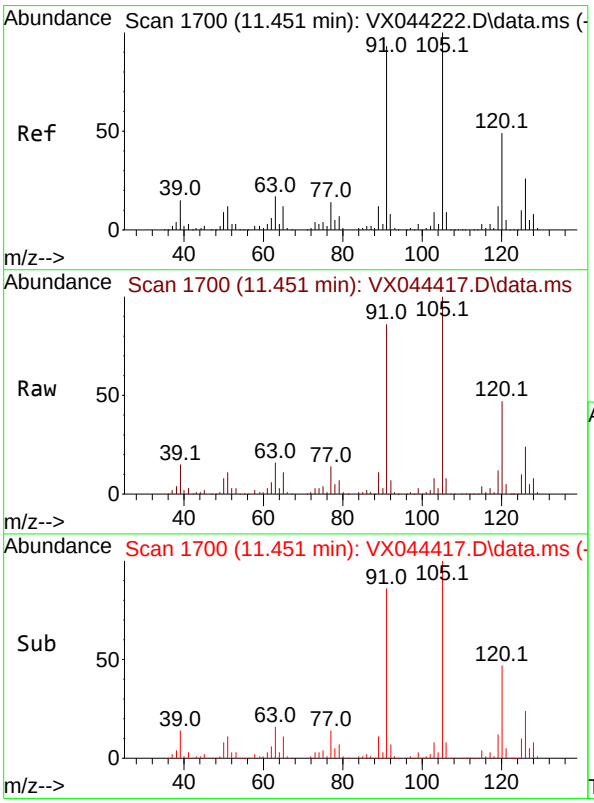
#81
trans-1,4-Dichloro-2-butene
Concen: 37.797 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 75 Resp: 25222

Ion	Ratio	Lower	Upper
75	100		
53	116.0	93.6	140.4
89	47.0	37.3	55.9

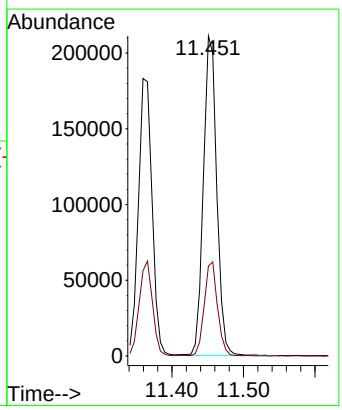


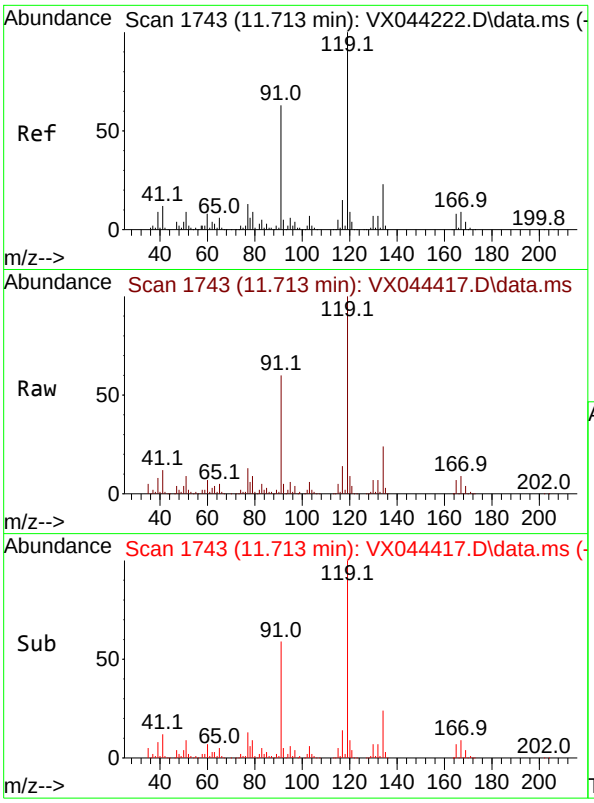


#82
4-Chlorotoluene
Concen: 50.851 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 91 Resp: 275039

Ion	Ratio	Lower	Upper
91	100		
126	29.4	14.5	43.5



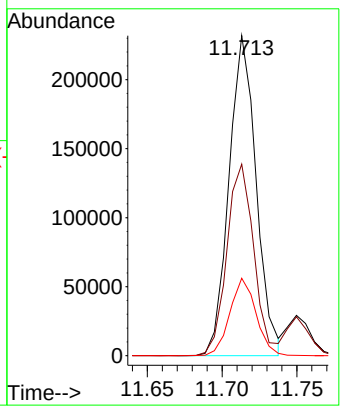


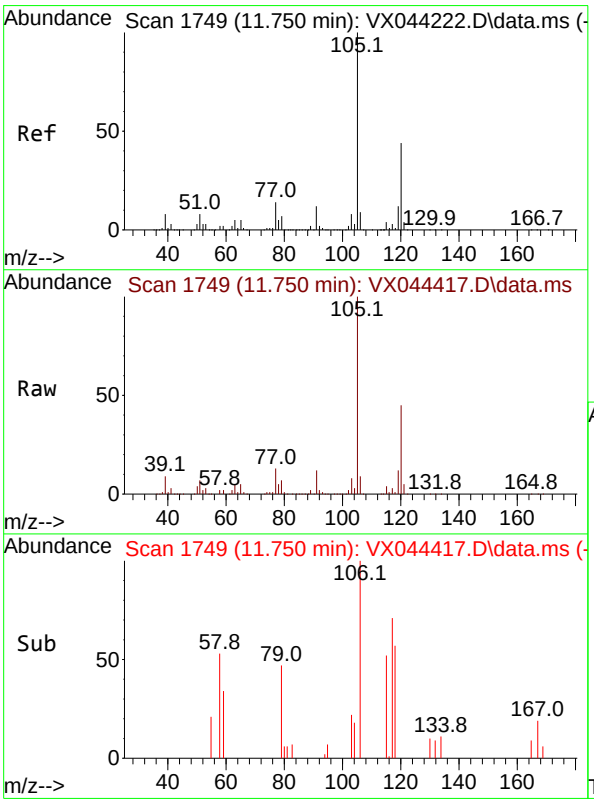
#83
tert-Butylbenzene
Concen: 52.357 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a...

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:119 Resp: 293206

Ion	Ratio	Lower	Upper
119	100		
91	59.7	30.9	92.5
134	23.4	11.5	34.4

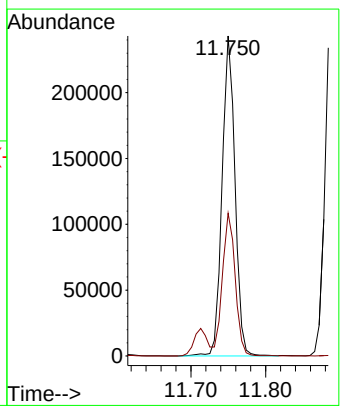


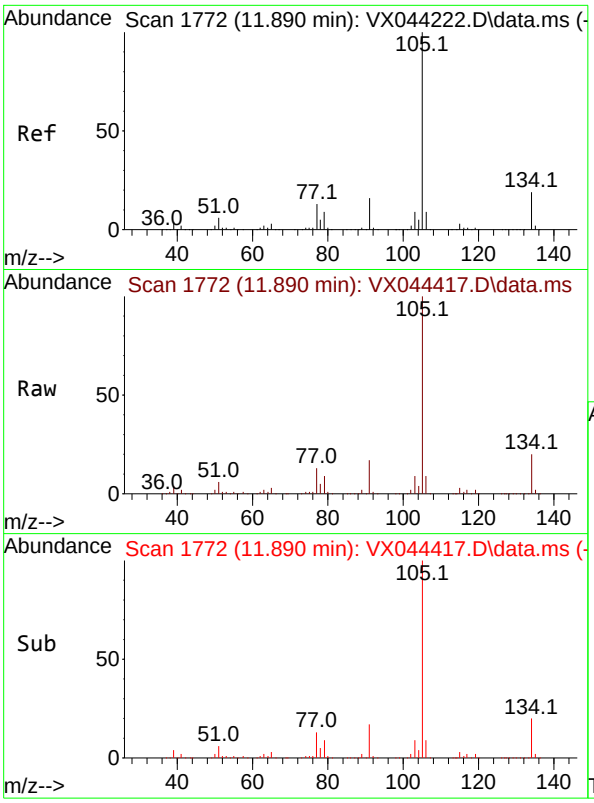


#84
1,2,4-Trimethylbenzene
Concen: 52.275 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:105 Resp: 290913

Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.7	65.1



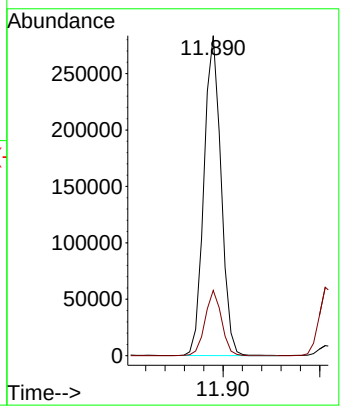


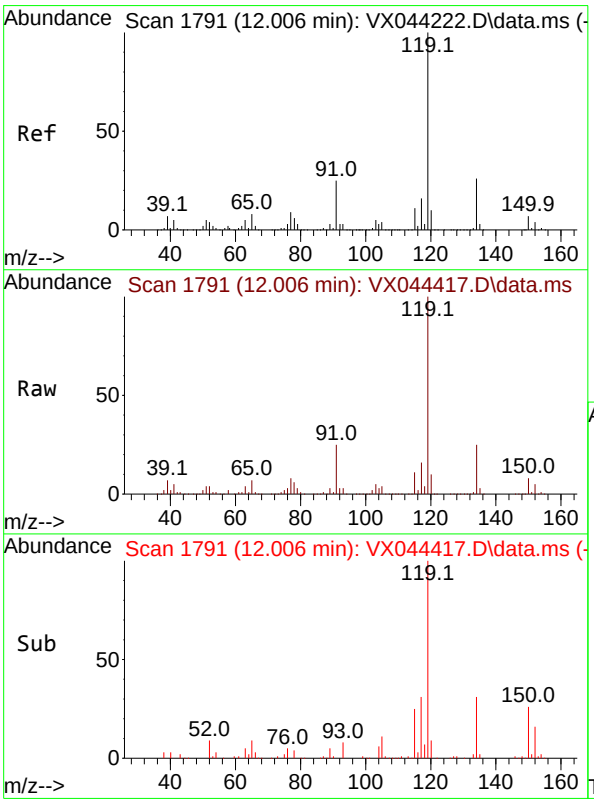
#85
sec-Butylbenzene
Concen: 51.163 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:105 Resp: 347835

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.4

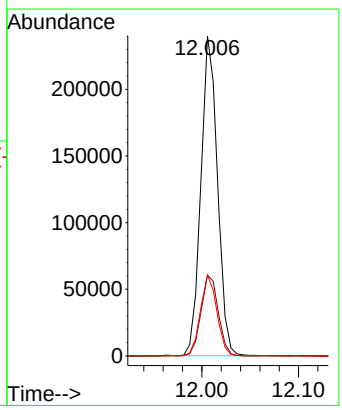


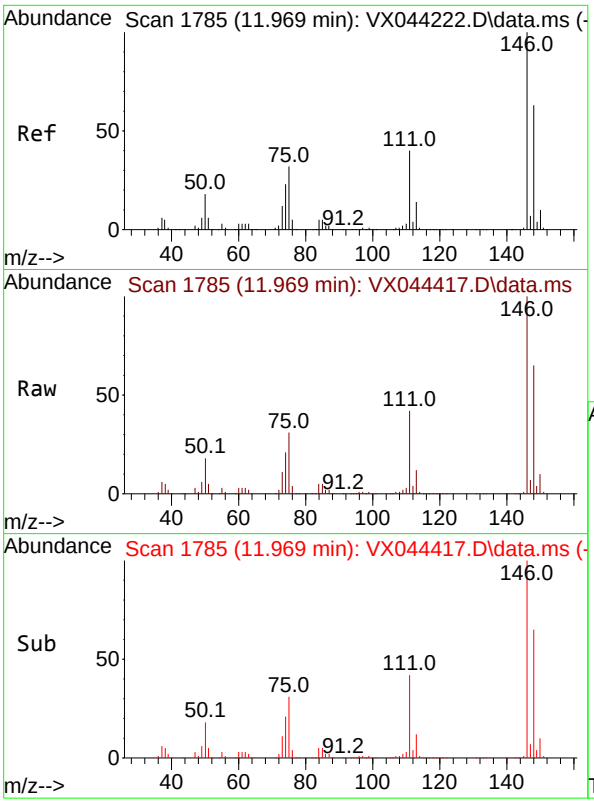


#86
p-Isopropyltoluene
Concen: 50.779 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:119 Resp: 287333

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.8	38.4
91	25.0	13.0	39.0



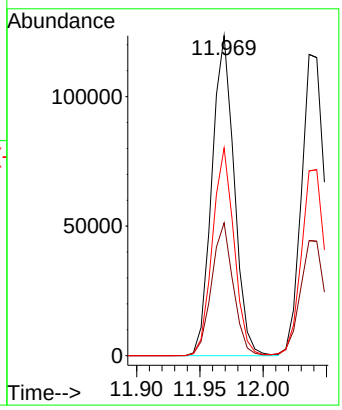


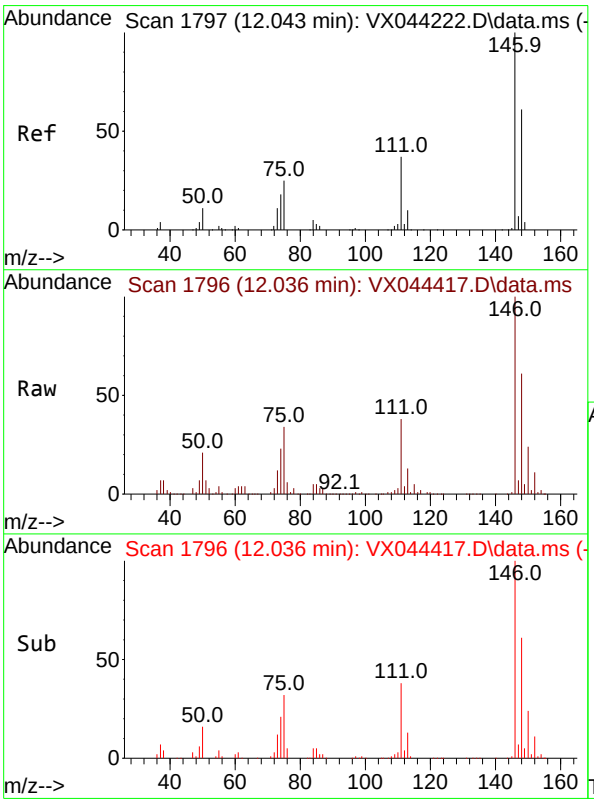
#87
1,3-Dichlorobenzene
Concen: 52.313 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:146 Resp: 151413

Ion	Ratio	Lower	Upper
146	100		
111	40.3	21.4	64.2
148	62.9	31.7	95.1

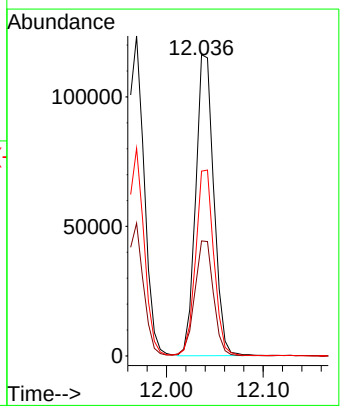


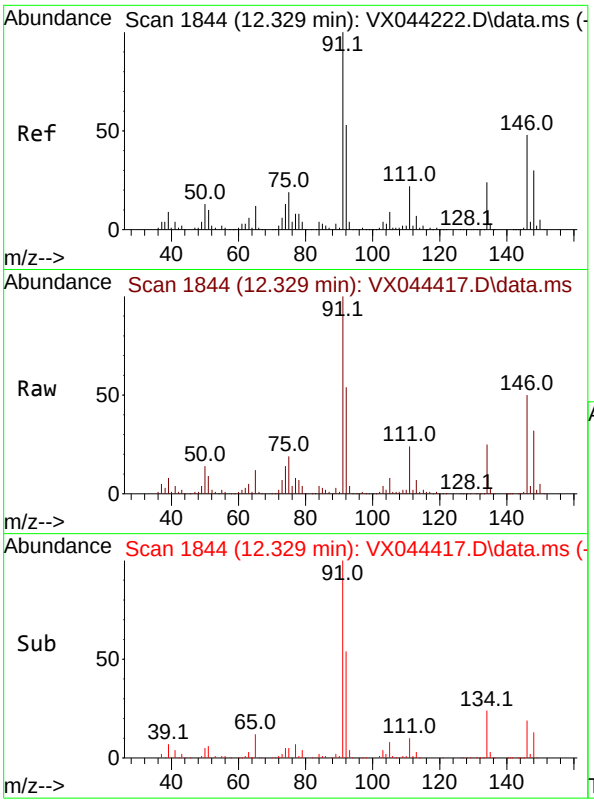


#88
1,4-Dichlorobenzene
Concen: 50.911 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.006 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:146 Resp: 151478

Ion	Ratio	Lower	Upper
146	100		
111	39.4	21.0	63.0
148	62.1	32.3	96.8



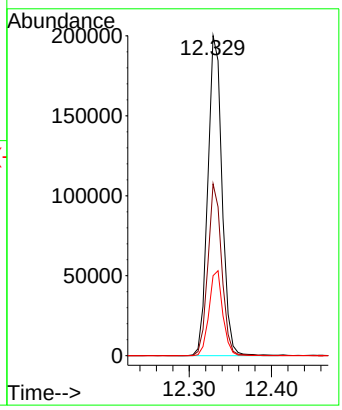


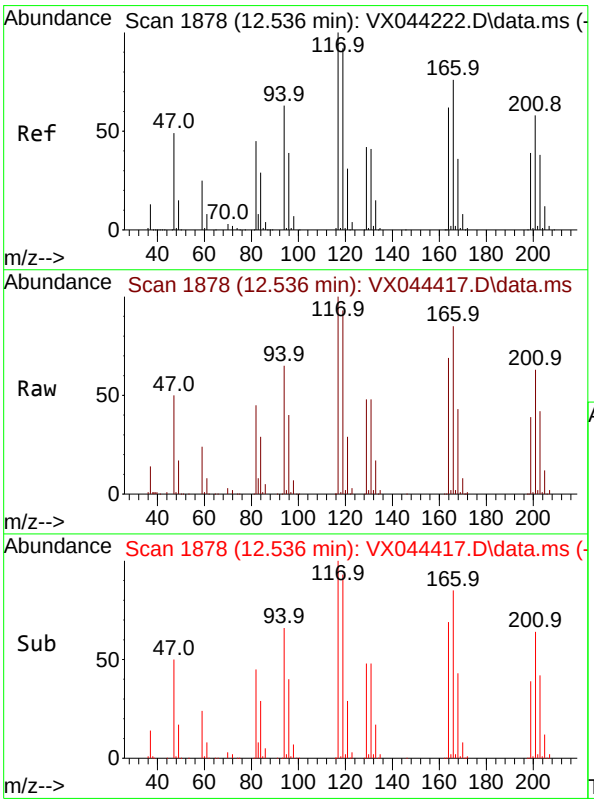
#89
n-Butylbenzene
Concen: 50.400 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion: 91 Resp: 239808

Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.6	79.7
134	25.7	12.6	37.8

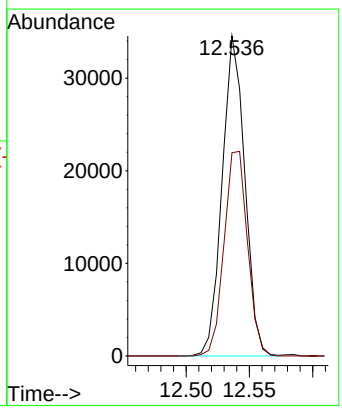


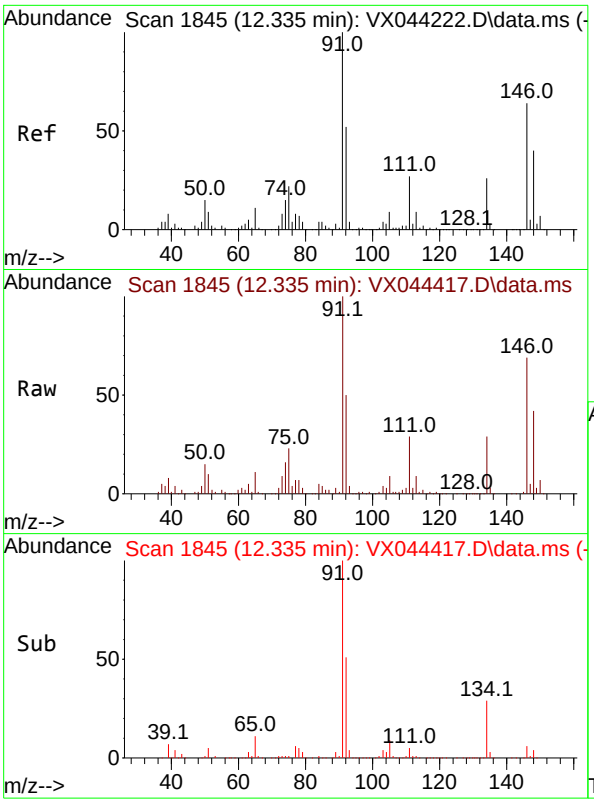


#90
Hexachloroethane
Concen: 52.138 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:117 Resp: 43066

Ion	Ratio	Lower	Upper
117	100		
201	66.2	31.4	94.2



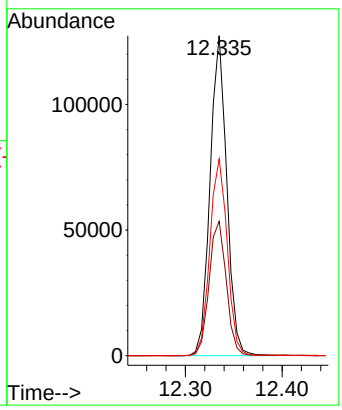


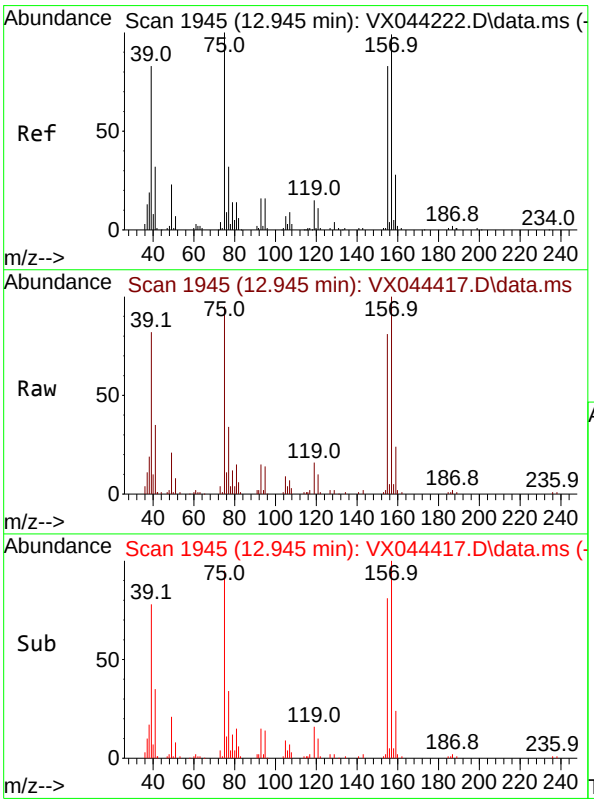
#91
1,2-Dichlorobenzene
Concen: 50.871 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:146 Resp: 152884

Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.4	64.3
148	64.3	31.6	95.0

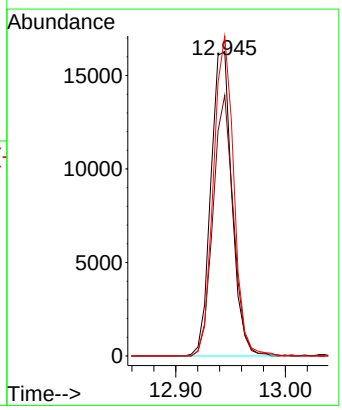


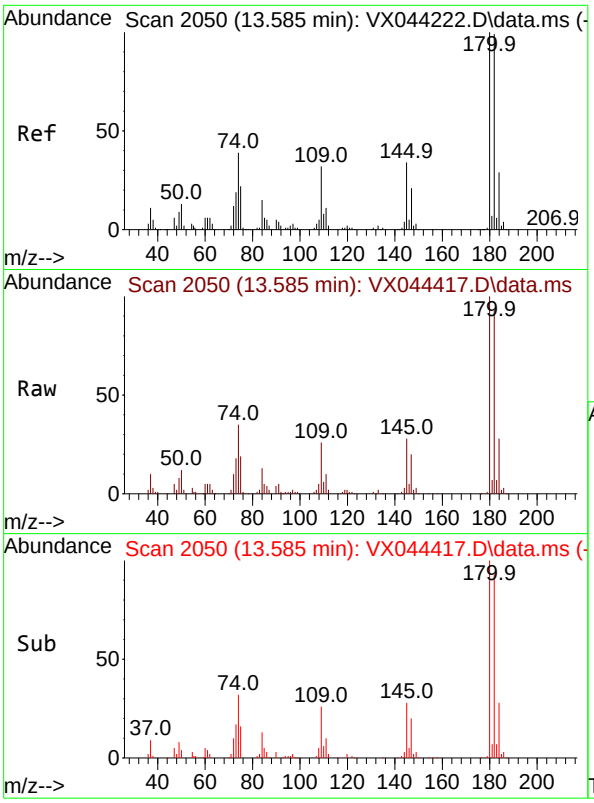


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.254 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion: 75 Resp: 21771

Ion	Ratio	Lower	Upper
75	100		
155	82.8	38.1	114.3
157	101.3	47.2	141.6



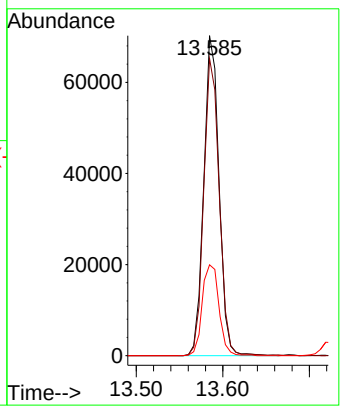


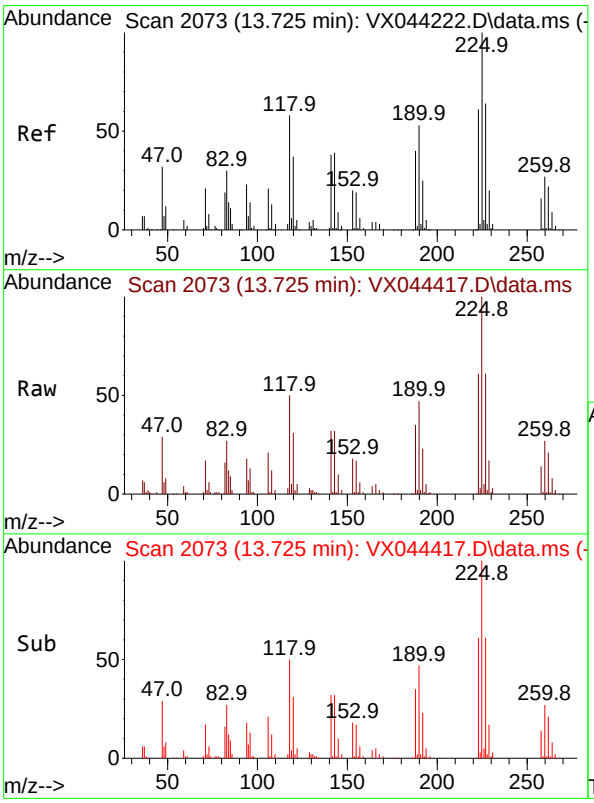
#93
1,2,4-Trichlorobenzene
Concen: 52.132 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:180 Resp: 85895

Ion	Ratio	Lower	Upper
180	100		
182	94.4	48.0	144.2
145	31.3	16.6	49.7

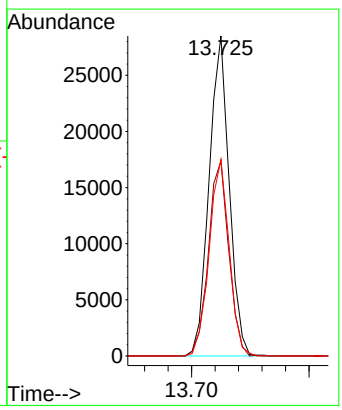


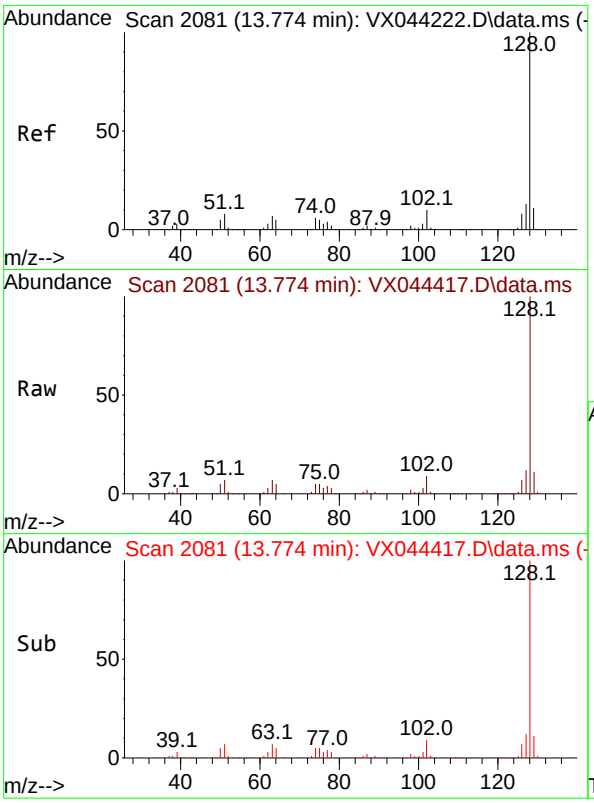


#94
Hexachlorobutadiene
Concen: 51.014 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:225 Resp: 33809

Ion	Ratio	Lower	Upper
225	100		
223	61.9	30.8	92.4
227	61.0	32.1	96.3



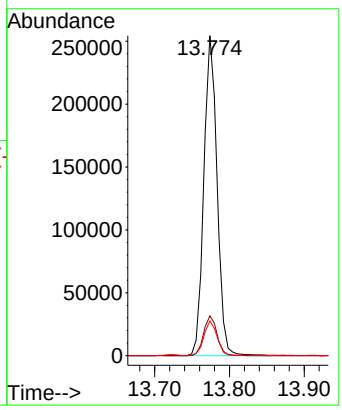


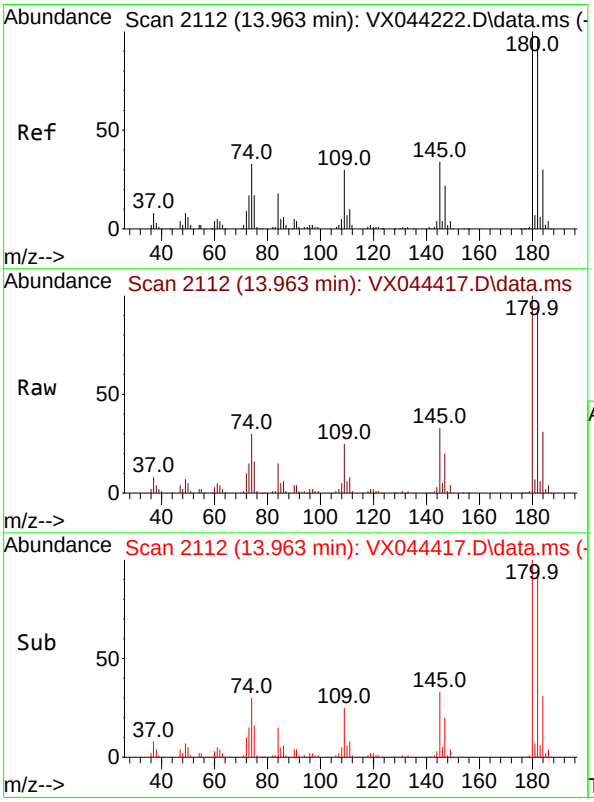
#95
Naphthalene
Concen: 48.567 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MS

Tgt Ion:128 Resp: 312358

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.5	15.7
129	10.8	9.0	13.4

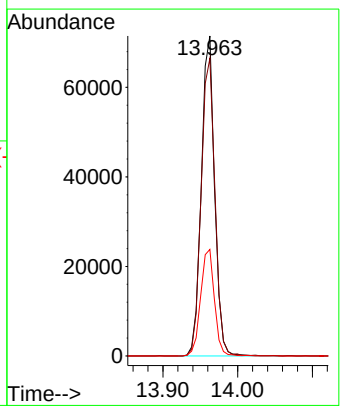




#96
1,2,3-Trichlorobenzene
Concen: 50.422 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044417.D
Acq: 19 Dec 2024 06:28 am

Tgt Ion:180 Resp: 88117

Ion	Ratio	Lower	Upper
180	100		
182	96.6	48.0	144.0
145	34.7	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044418.D
Acq On : 19 Dec 2024 06:51 am
Operator : JC/MD
Sample : P5317-20MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 50 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Quant Time: Dec 19 07:43:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	116949	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	212543	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	188325	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	88743	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	100683	49.102	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.200%			
35) Dibromofluoromethane	5.379	113	77439	52.606	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.220%			
50) Toluene-d8	8.647	98	260771	52.508	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.020%			
62) 4-Bromofluorobenzene	11.079	95	92575	53.347	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	94910	52.485	ug/l	95
3) Chloromethane	1.294	50	91353	52.828	ug/l	99
4) Vinyl Chloride	1.374	62	94923	52.690	ug/l	99
5) Bromomethane	1.593	94	65294	51.087	ug/l	99
6) Chloroethane	1.660	64	56136	50.041	ug/l	98
7) Trichlorofluoromethane	1.861	101	164127	46.536	ug/l	97
8) Diethyl Ether	2.136	74	58021	48.195	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.312	101	82128	57.547	ug/l	98
10) Methyl Iodide	2.440	142	103771	55.170	ug/l	96
11) Tert butyl alcohol	2.995	59	68303	236.352	ug/l	98
12) 1,1-Dichloroethene	2.306	96	74788	57.053	ug/l	94
13) Acrolein	2.239	56	103223	246.755	ug/l	100
14) Allyl chloride	2.654	41	109683	50.235	ug/l	97
15) Acrylonitrile	3.068	53	207951	259.773	ug/l	99
16) Acetone	2.392	43	188359	225.321	ug/l	95
17) Carbon Disulfide	2.501	76	136752	54.881	ug/l	98
18) Methyl Acetate	2.709	43	91330	42.373	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	257121	50.264	ug/l	97
20) Methylene Chloride	2.782	84	82193	52.348	ug/l	94
21) trans-1,2-Dichloroethene	3.081	96	75912	54.489	ug/l	96
22) Diisopropyl ether	3.763	45	246112	50.057	ug/l	97
23) Vinyl Acetate	3.721	43	882527	220.784	ug/l	99
24) 1,1-Dichloroethane	3.605	63	146892	53.598	ug/l	99
25) 2-Butanone	4.562	43	295478	248.629	ug/l	99
26) 2,2-Dichloropropane	4.465	77	64400	28.925	ug/l	93
27) cis-1,2-Dichloroethene	4.483	96	94786	53.571	ug/l	90
28) Bromochloromethane	4.891	49	64892	48.286	ug/l	98
29) Tetrahydrofuran	5.013	42	190066	249.164	ug/l	99
30) Chloroform	5.092	83	158091	51.341	ug/l	97
31) Cyclohexane	5.458	56	114705	51.830	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	131697	51.524	ug/l	99
36) 1,1-Dichloropropene	5.684	75	95317	50.092	ug/l	99
37) Ethyl Acetate	4.721	43	98162	41.733	ug/l	98
38) Carbon Tetrachloride	5.665	117	107044	52.253	ug/l	97
39) Methylcyclohexane	7.373	83	111938	49.208	ug/l	99
40) Benzene	6.031	78	308489	53.397	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044418.D
Acq On : 19 Dec 2024 06:51 am
Operator : JC/MD
Sample : P5317-20MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 50 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Quant Time: Dec 19 07:43:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	61093	48.914	ug/l		97
42) 1,2-Dichloroethane	6.080	62	120186	50.501	ug/l		99
43) Isopropyl Acetate	6.342	43	168928	45.950	ug/l		98
44) Trichloroethene	7.123	130	267679	185.797	ug/l		100
45) 1,2-Dichloropropane	7.427	63	76356	51.732	ug/l		98
46) Dibromomethane	7.580	93	59613	52.060	ug/l		94
47) Bromodichloromethane	7.818	83	106514	53.860	ug/l		99
48) Methyl methacrylate	7.696	41	89170	49.967	ug/l		97
49) 1,4-Dioxane	7.665	88	36595	1236.819	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	612508	259.119	ug/l		99
52) Toluene	8.714	92	192052	52.936	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	97126	46.021	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	107458	49.904	ug/l		96
55) 1,1,2-Trichloroethane	9.153	97	78981	54.799	ug/l		97
56) Ethyl methacrylate	9.116	69	121540	53.416	ug/l		96
57) 1,3-Dichloropropane	9.305	76	132816	52.942	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.171	63	315	0.274	ug/l	#	46
59) 2-Hexanone	9.433	43	449879	262.936	ug/l		97
60) Dibromochloromethane	9.518	129	77763	50.885	ug/l		98
61) 1,2-Dibromoethane	9.610	107	80264	54.710	ug/l		96
64) Tetrachloroethene	9.269	164	62279	49.825	ug/l		99
65) Chlorobenzene	10.079	112	206411	51.150	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	69756	53.786	ug/l		98
67) Ethyl Benzene	10.189	91	358045	51.351	ug/l		98
68) m/p-Xylenes	10.299	106	272658	106.570	ug/l		96
69) o-Xylene	10.640	106	135601	52.382	ug/l		96
70) Styrene	10.652	104	223981	53.973	ug/l		96
71) Bromoform	10.799	173	46268	50.932	ug/l	#	98
73) Isopropylbenzene	10.963	105	341745	50.304	ug/l		100
74) N-amyl acetate	10.841	43	132925	42.337	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	120063	50.882	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	123359	62.258	ug/l		85
77) Bromobenzene	11.195	156	85185	51.708	ug/l		97
78) n-propylbenzene	11.305	91	384780	51.244	ug/l		99
79) 2-Chlorotoluene	11.366	91	240255	49.475	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	283162	50.261	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	25426	38.247	ug/l		99
82) 4-Chlorotoluene	11.451	91	268894	50.004	ug/l		100
83) tert-Butylbenzene	11.713	119	288730	51.857	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	285385	51.580	ug/l		100
85) sec-Butylbenzene	11.890	105	342783	50.713	ug/l		99
86) p-Isopropyltoluene	12.006	119	281058	49.959	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	149233	51.859	ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	150438	50.855	ug/l		98
89) n-Butylbenzene	12.329	91	230593	48.745	ug/l		100
90) Hexachloroethane	12.536	117	43707	53.222	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	151871	50.827	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	22785	49.742	ug/l		95
93) 1,2,4-Trichlorobenzene	13.585	180	84448	51.552	ug/l		99
94) Hexachlorobutadiene	13.725	225	33362	50.632	ug/l		96
95) Naphthalene	13.774	128	319471	49.962	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	90592	52.140	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044418.D
Acq On : 19 Dec 2024 06:51 am
Operator : JC/MD
Sample : P5317-20MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 50 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Quant Time: Dec 19 07:43:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

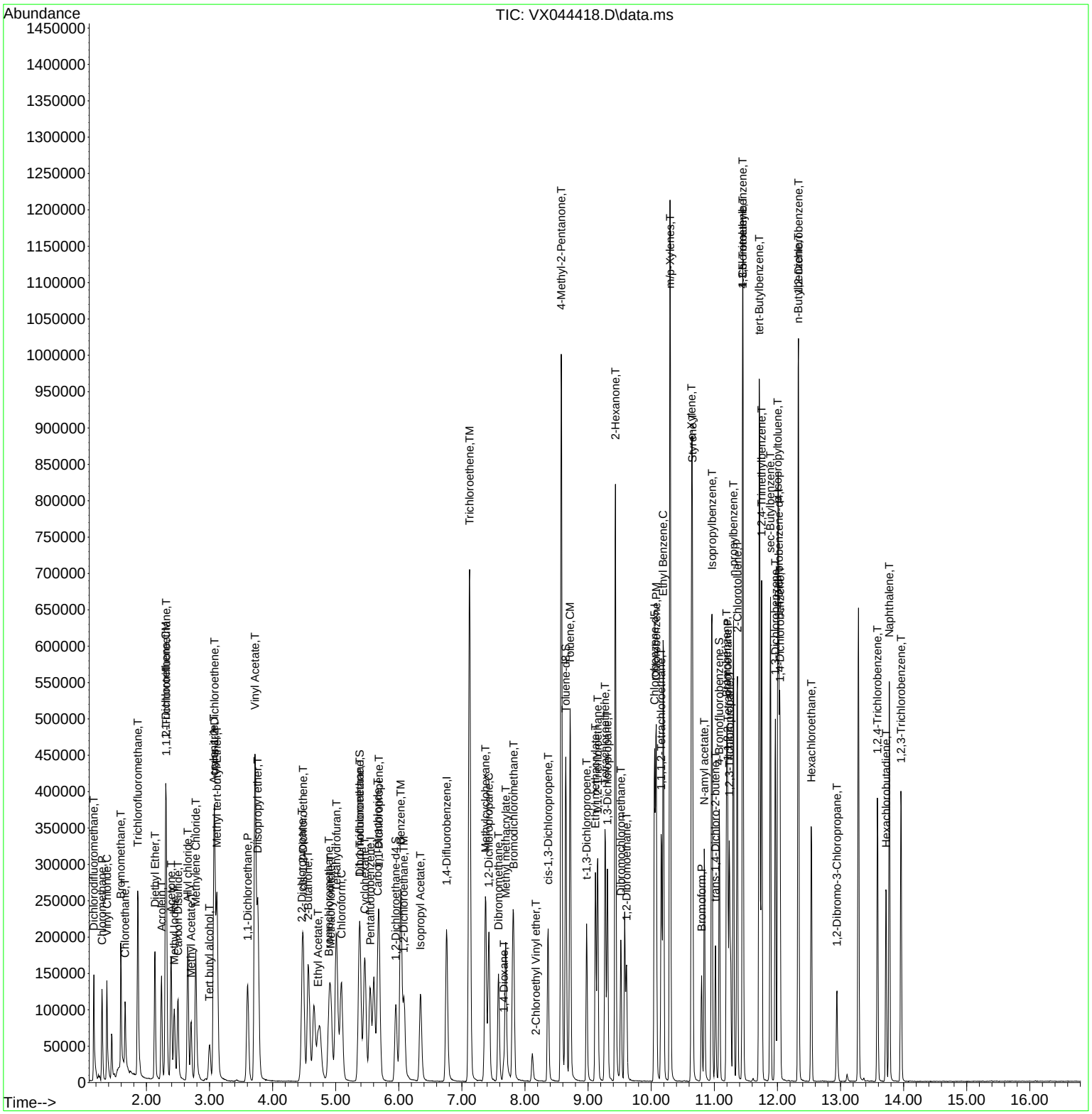
(#) = qualifier out of range (m) = manual integration (+) = signals summed

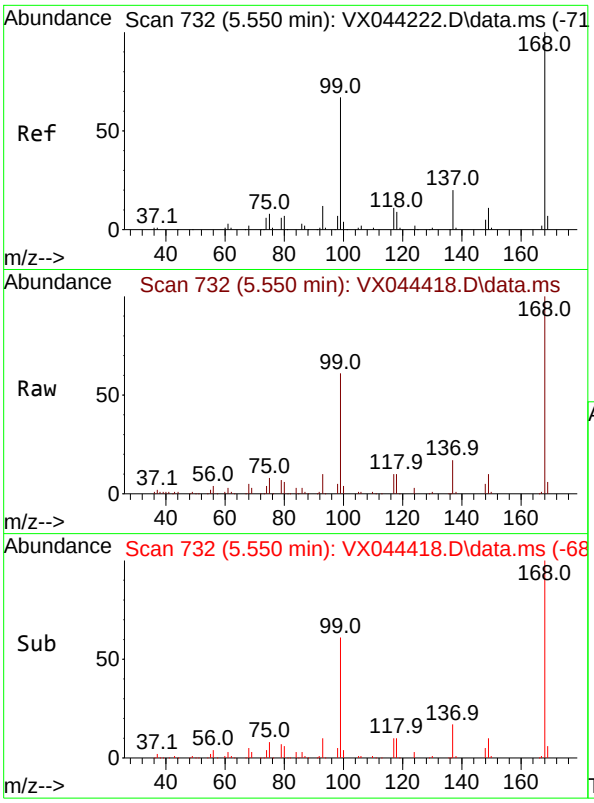
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044418.D
Acq On : 19 Dec 2024 06:51 am
Operator : JC/MD
Sample : P5317-20MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 50 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Quant Time: Dec 19 07:43:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



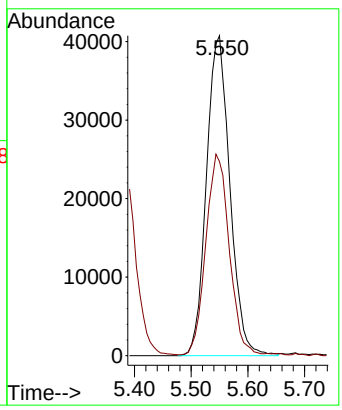


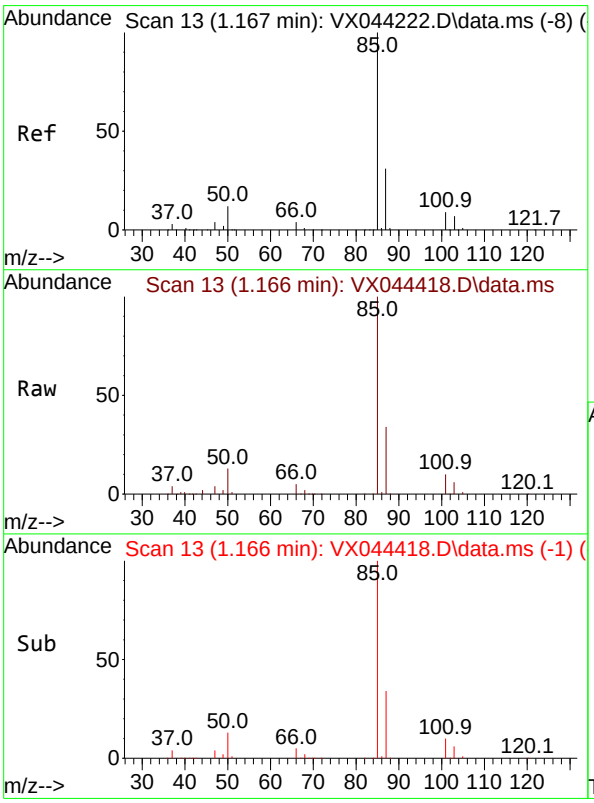
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:168 Resp: 116949

Ion	Ratio	Lower	Upper
168	100		
99	60.3	53.4	80.0

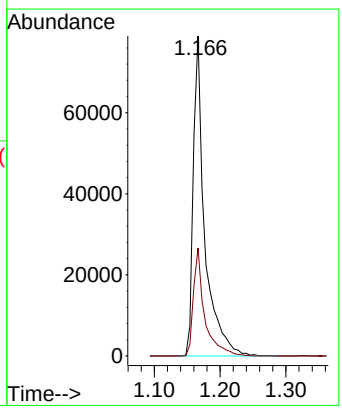


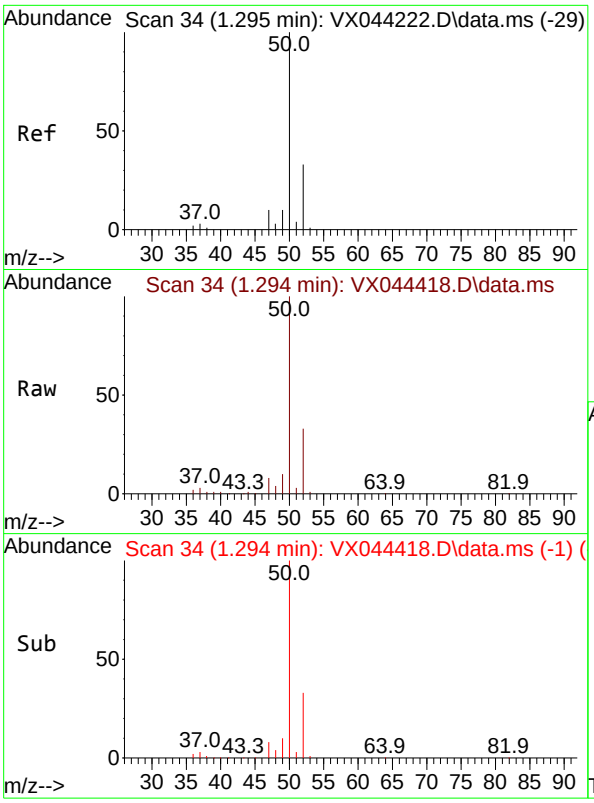


#2
Dichlorodifluoromethane
Concen: 52.485 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 85 Resp: 94910

Ion	Ratio	Lower	Upper
85	100		
87	33.7	15.4	46.4



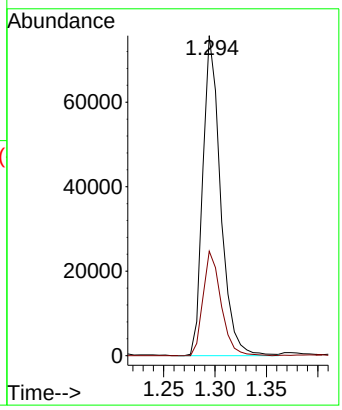


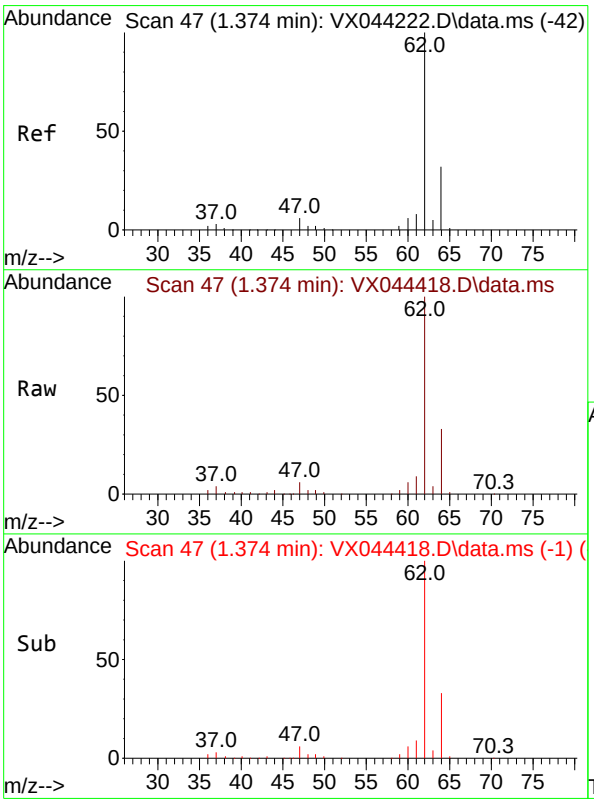
#3
Chloromethane
Concen: 52.828 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 50 Resp: 91353

Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.5	39.7

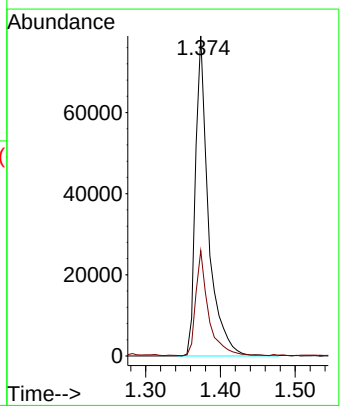


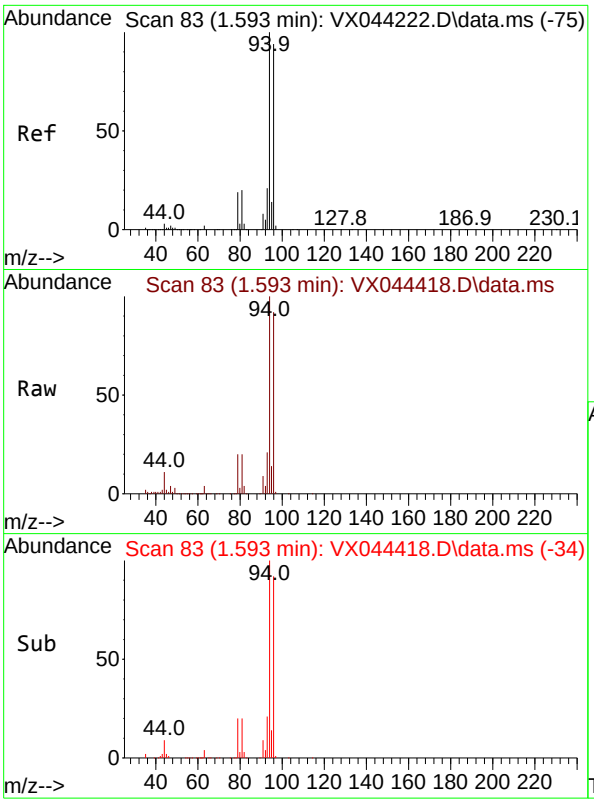


#4
Vinyl Chloride
Concen: 52.690 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 62 Resp: 94923

Ion	Ratio	Lower	Upper
62	100		
64	32.7	25.7	38.5



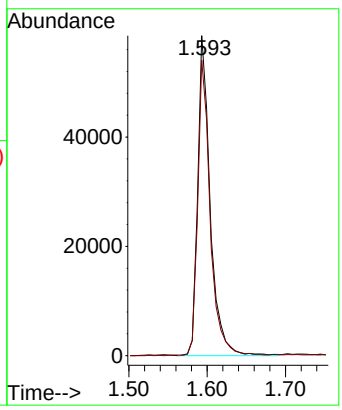


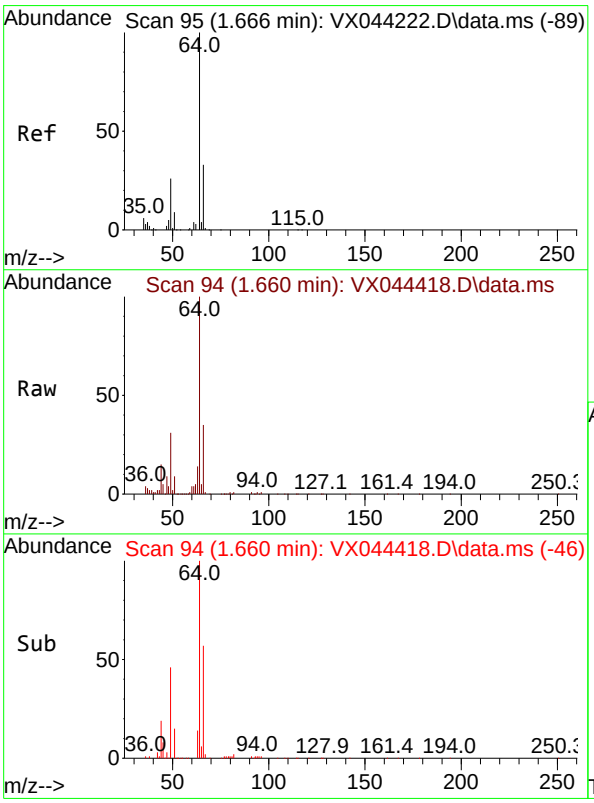
#5
Bromomethane
Concen: 51.087 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 94 Resp: 65294

Ion	Ratio	Lower	Upper
94	100		
96	92.2	74.9	112.3

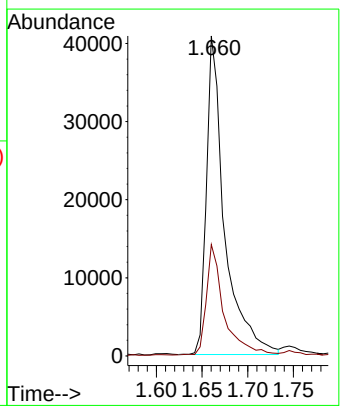


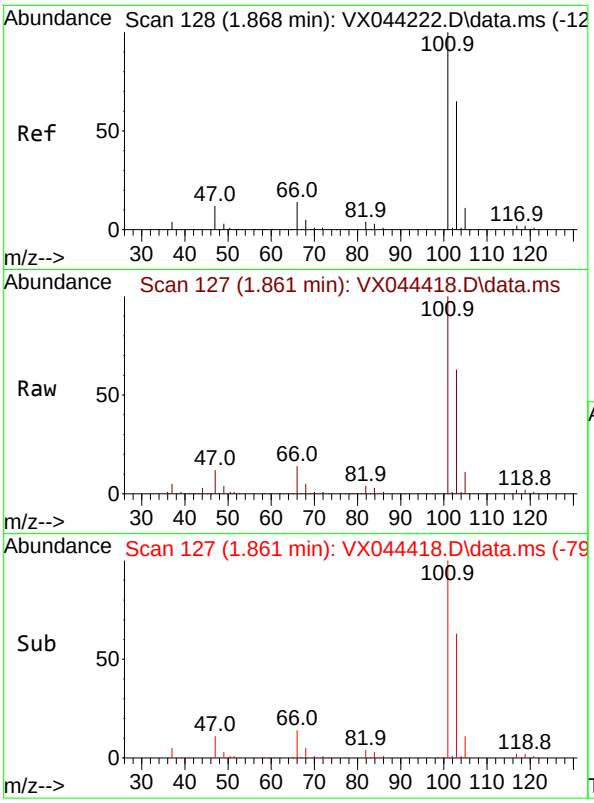


#6
Chloroethane
Concen: 50.041 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 64 Resp: 56136

Ion	Ratio	Lower	Upper
64	100		
66	34.6	26.6	39.8



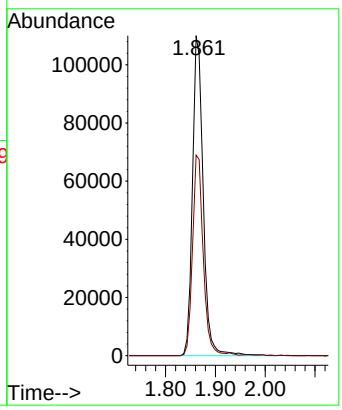


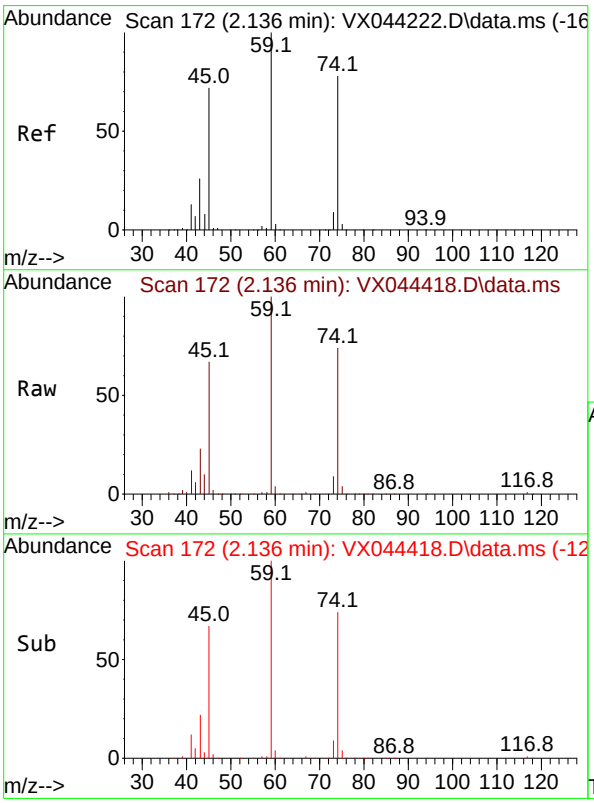
#7
Trichlorofluoromethane
Concen: 46.536 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:101 Resp: 164127

Ion	Ratio	Lower	Upper
101	100		
103	62.7	51.8	77.8

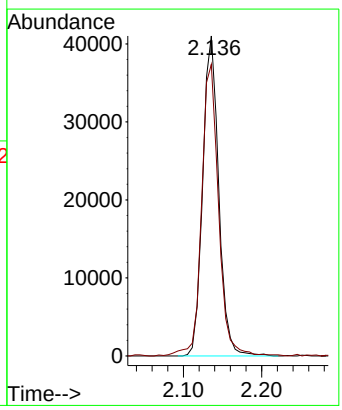


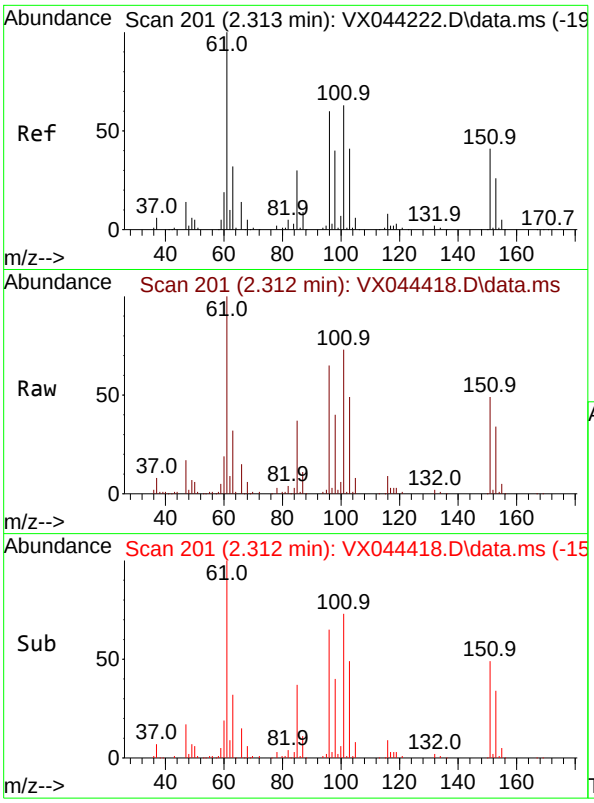


#8
Diethyl Ether
Concen: 48.195 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 74 Resp: 58021

Ion	Ratio	Lower	Upper
74	100		
45	96.7	48.4	145.0



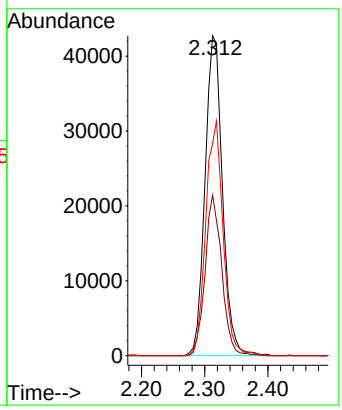


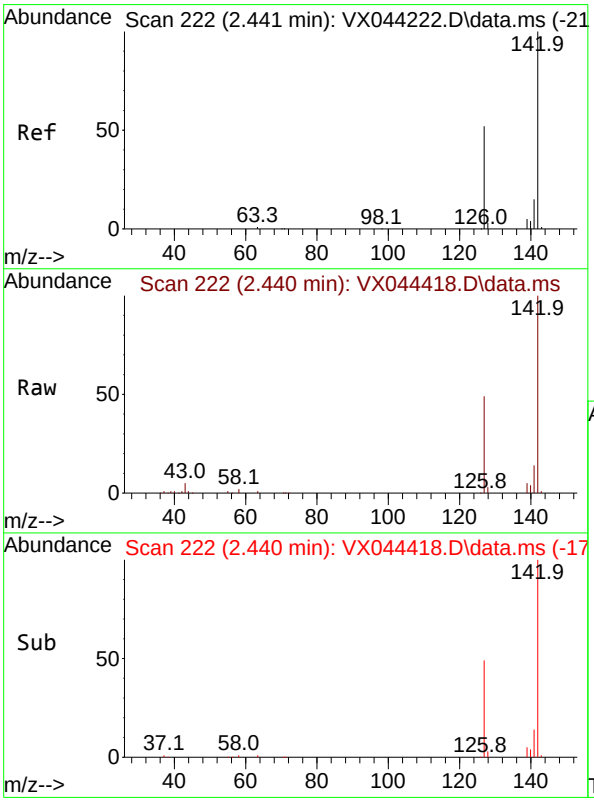
#9
1,1,2-Trichlorotrifluoroethane
Concen: 57.547 ug/l
RT: 2.312 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:101 Resp: 82128

Ion	Ratio	Lower	Upper
101	100		
85	47.9	38.5	57.7
151	72.9	55.8	83.6

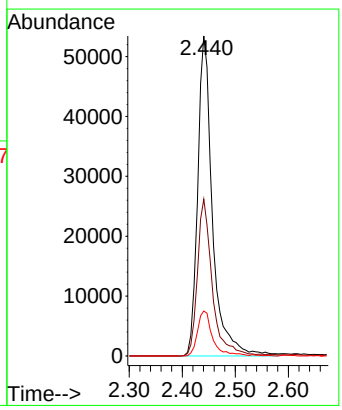


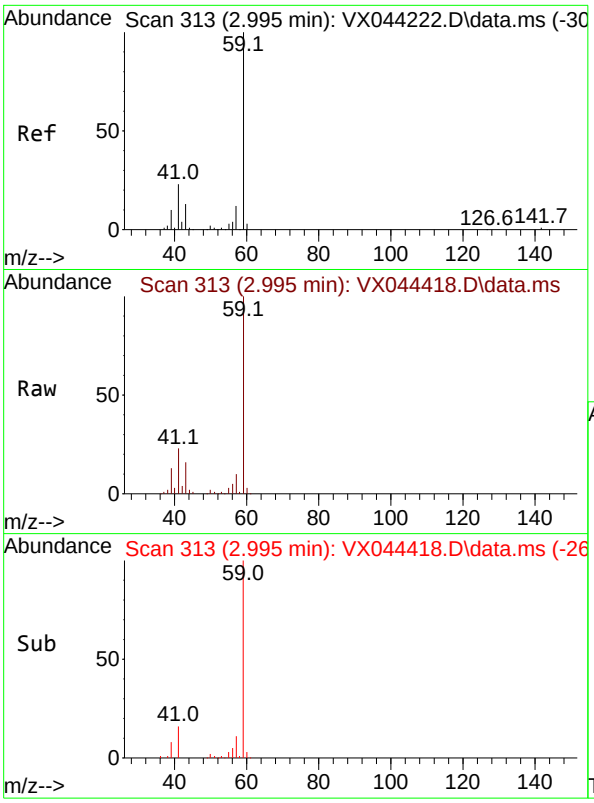


#10
Methyl Iodide
Concen: 55.170 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:142 Resp: 103771

Ion	Ratio	Lower	Upper
142	100		
127	49.1	41.8	62.8
141	14.3	11.5	17.3



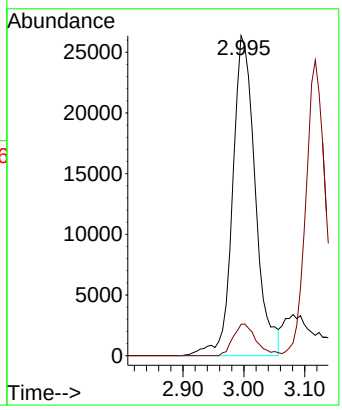


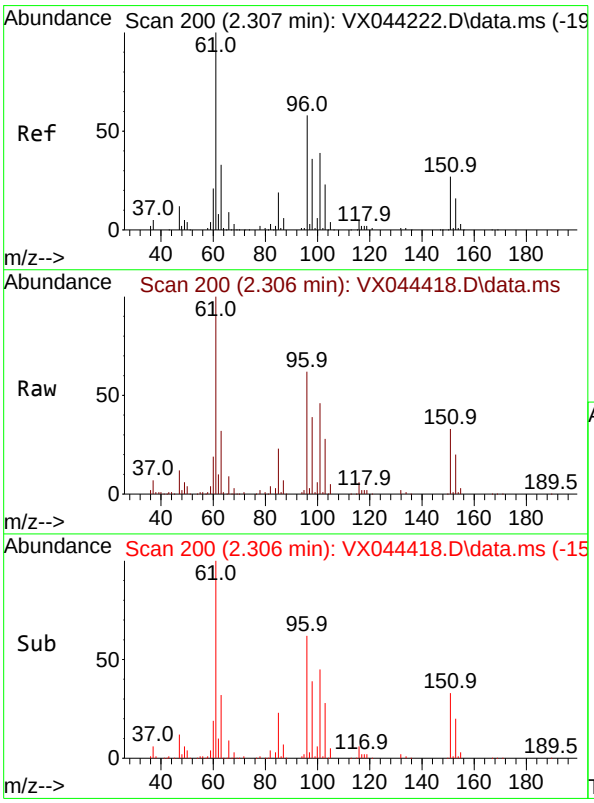
#11
Tert butyl alcohol
Concen: 236.352 ug/l
RT: 2.995 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 59 Resp: 68303

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.8	13.2

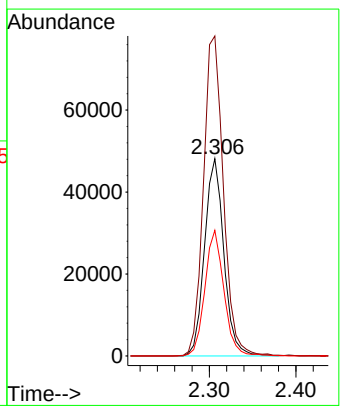


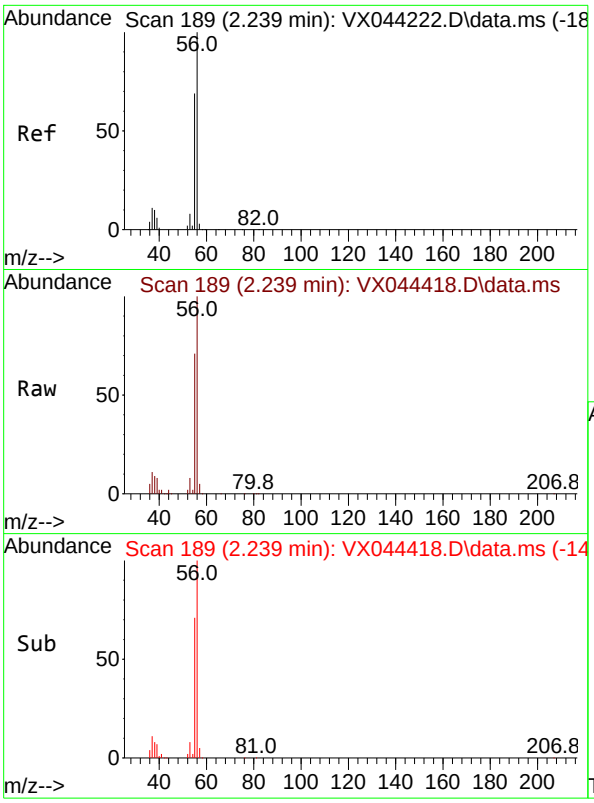


#12
1,1-Dichloroethene
Concen: 57.053 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 96 Resp: 74788

Ion	Ratio	Lower	Upper
96	100		
61	162.1	138.0	207.0
98	63.7	50.0	75.0



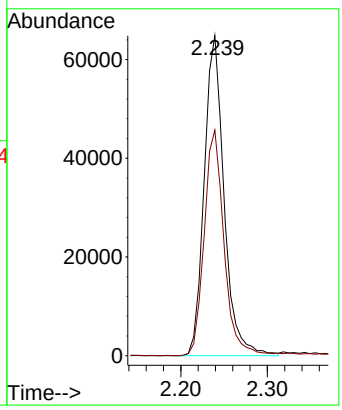


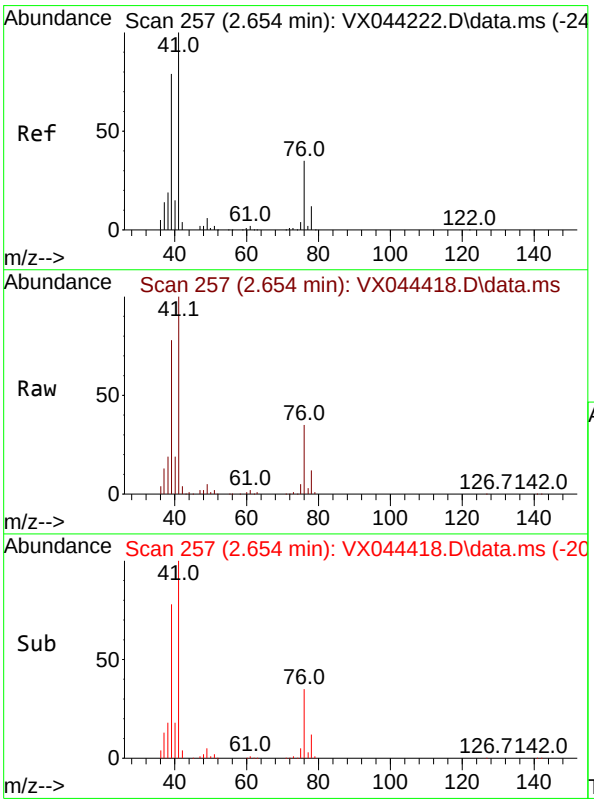
#13
Acrolein
Concen: 246.755 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 56 Resp: 103223

Ion	Ratio	Lower	Upper
56	100		
55	70.4	56.6	84.8

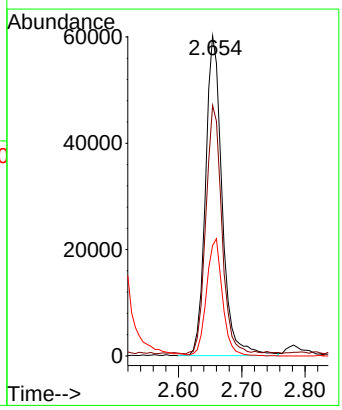


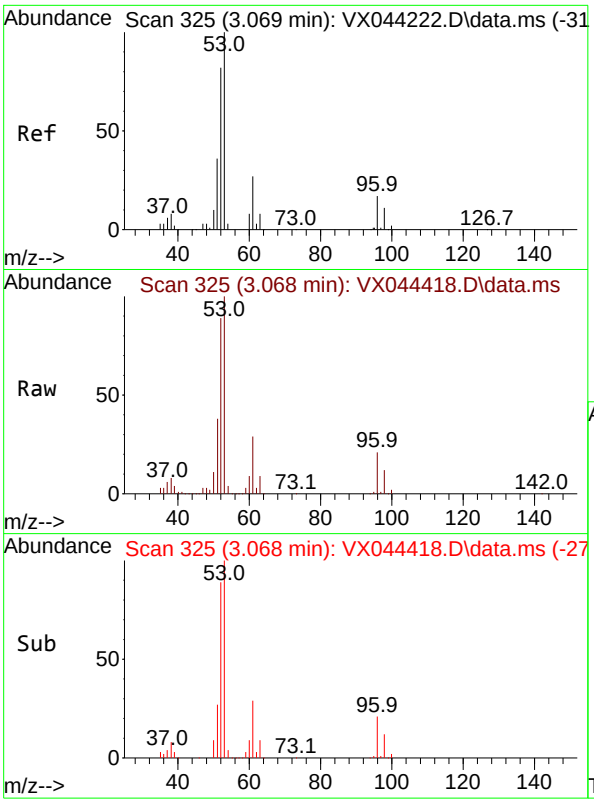


#14
Allyl chloride
Concen: 50.235 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 41 Resp: 109683

Ion	Ratio	Lower	Upper
41	100		
39	74.9	61.9	92.9
76	35.3	27.4	41.2



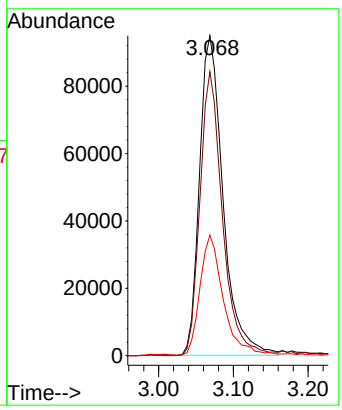


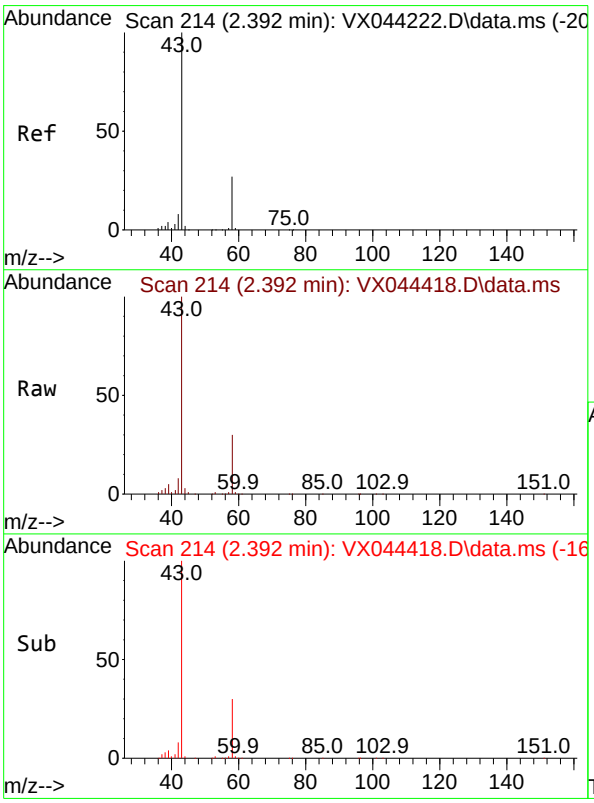
#15
Acrylonitrile
Concen: 259.773 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 53 Resp: 207951

Ion	Ratio	Lower	Upper
53	100		
52	85.0	67.4	101.0
51	37.9	30.3	45.5

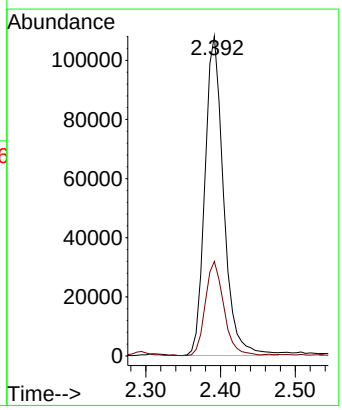


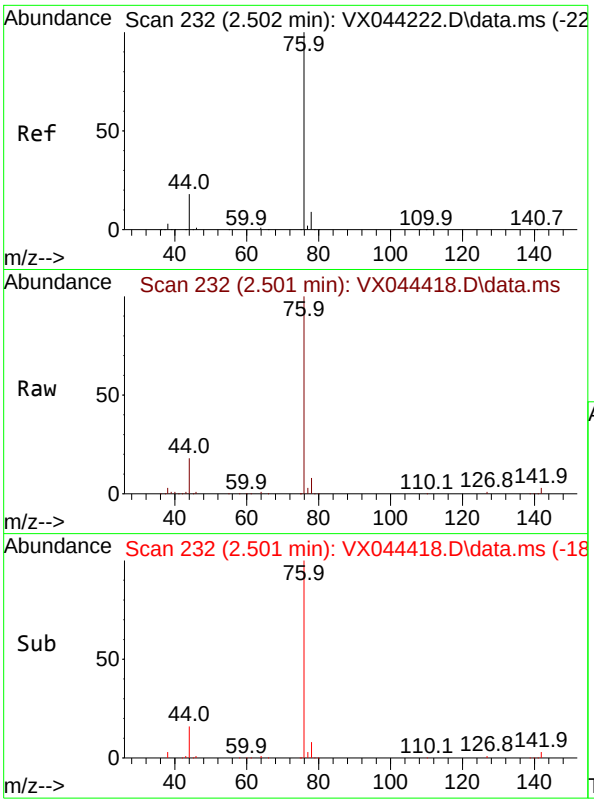


#16
Acetone
Concen: 225.321 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 43 Resp: 188359

Ion	Ratio	Lower	Upper
43	100		
58	29.5	21.6	32.4



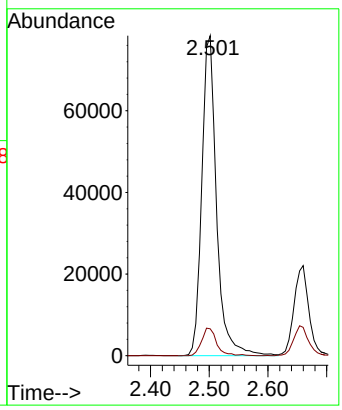


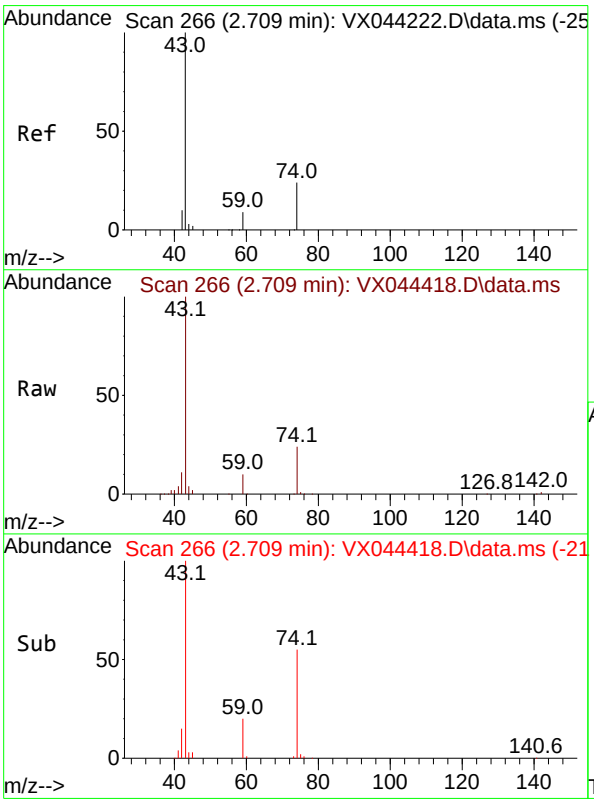
#17
Carbon Disulfide
Concen: 54.881 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 76 Resp: 136752

Ion	Ratio	Lower	Upper
76	100		
78	8.4	7.4	11.0

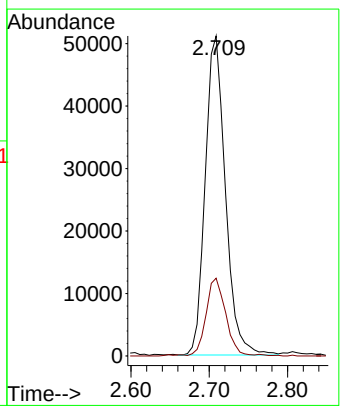


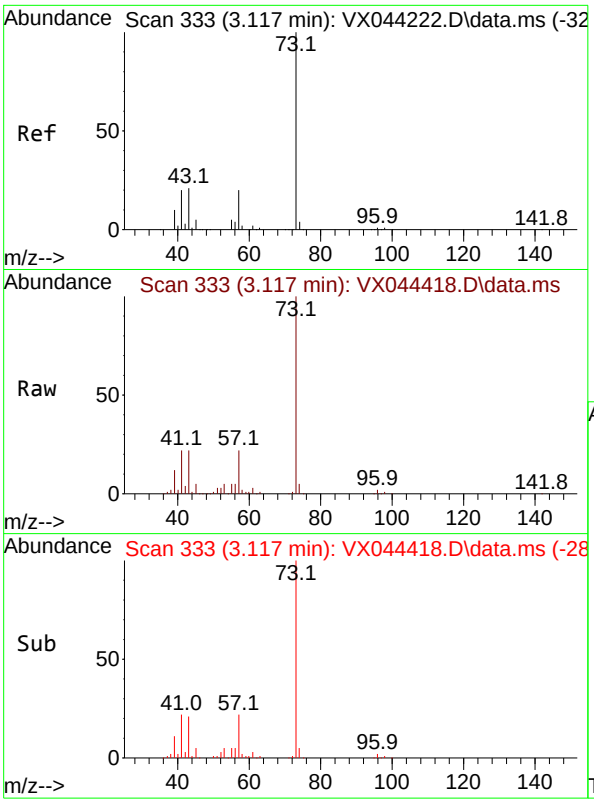


#18
Methyl Acetate
Concen: 42.373 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 43 Resp: 91330

Ion	Ratio	Lower	Upper
43	100		
74	23.9	17.7	26.5



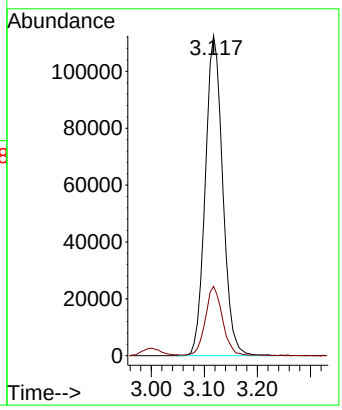


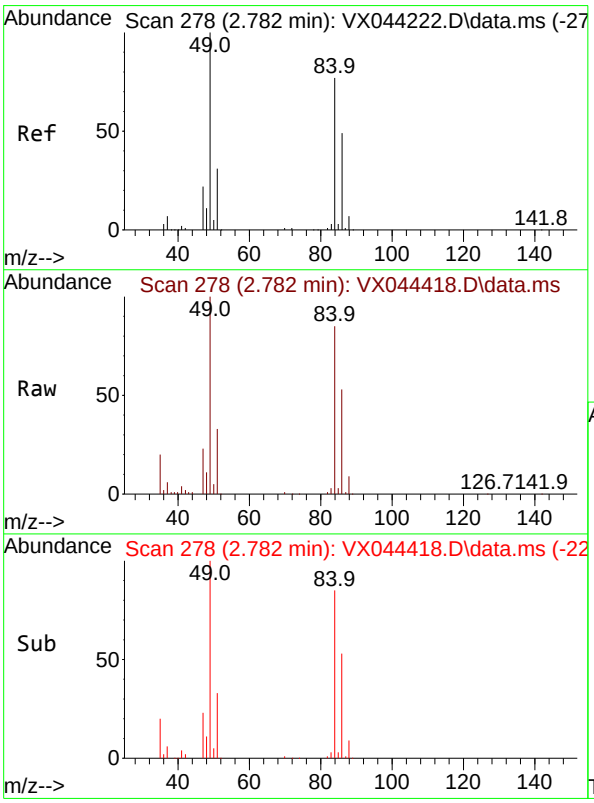
#19
Methyl tert-butyl Ether
Concen: 50.264 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 73 Resp: 257121

Ion	Ratio	Lower	Upper
73	100		
57	21.6	16.2	24.4

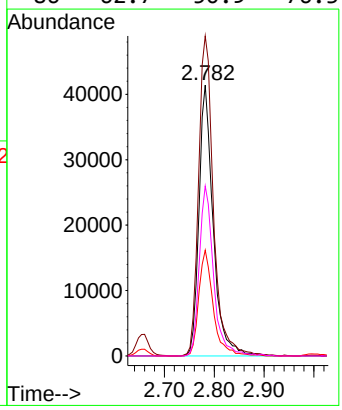


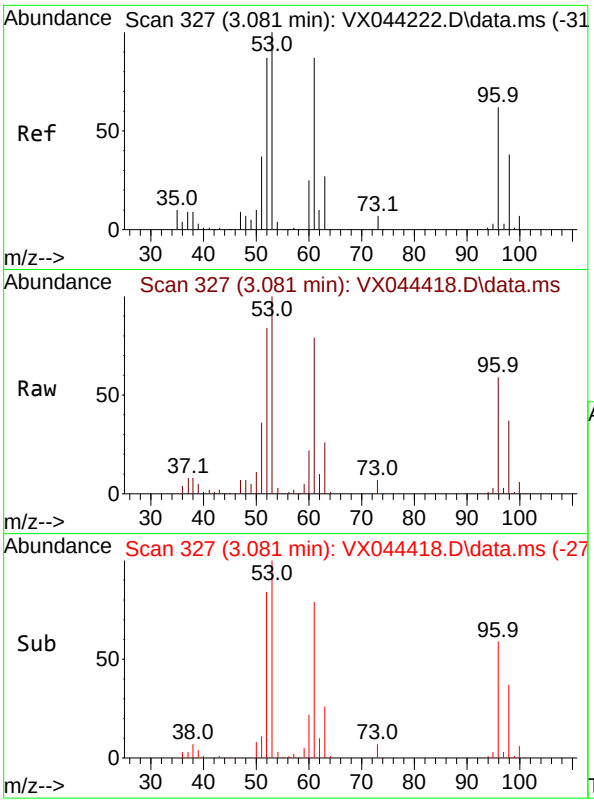


#20
Methylene Chloride
Concen: 52.348 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 84 Resp: 82193

Ion	Ratio	Lower	Upper
84	100		
49	118.1	104.2	156.4
51	39.0	32.2	48.4
86	62.7	50.9	76.3



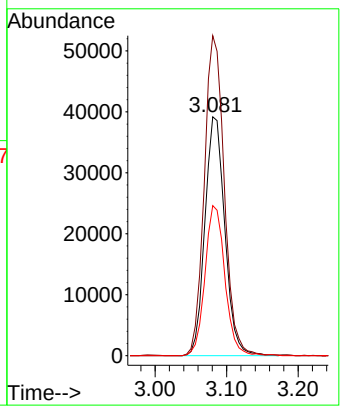


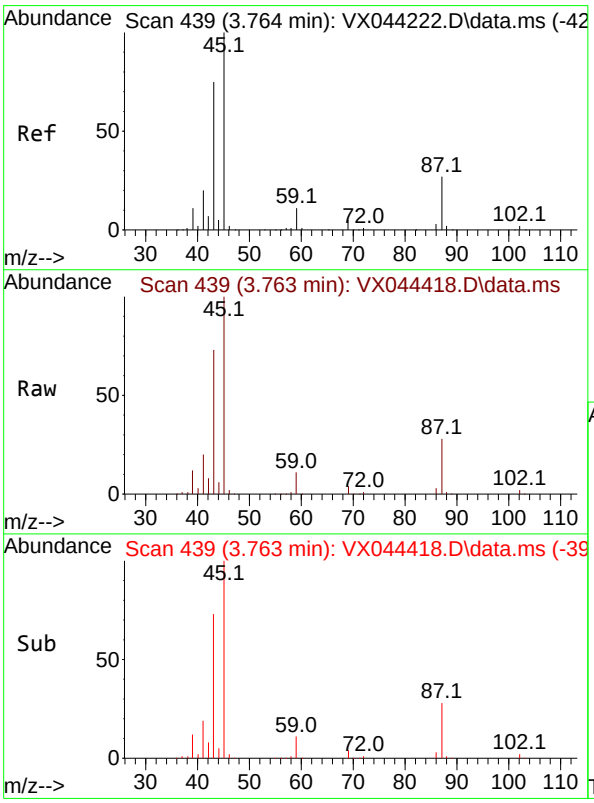
#21
trans-1,2-Dichloroethene
Concen: 54.489 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 96 Resp: 75912

Ion	Ratio	Lower	Upper
96	100		
61	134.0	112.0	168.0
98	62.8	48.8	73.2

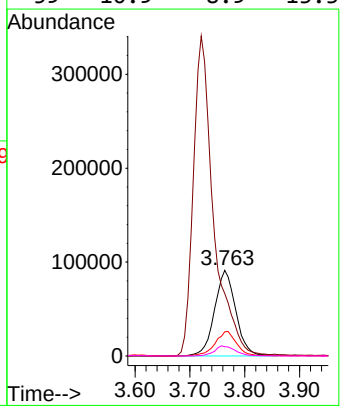


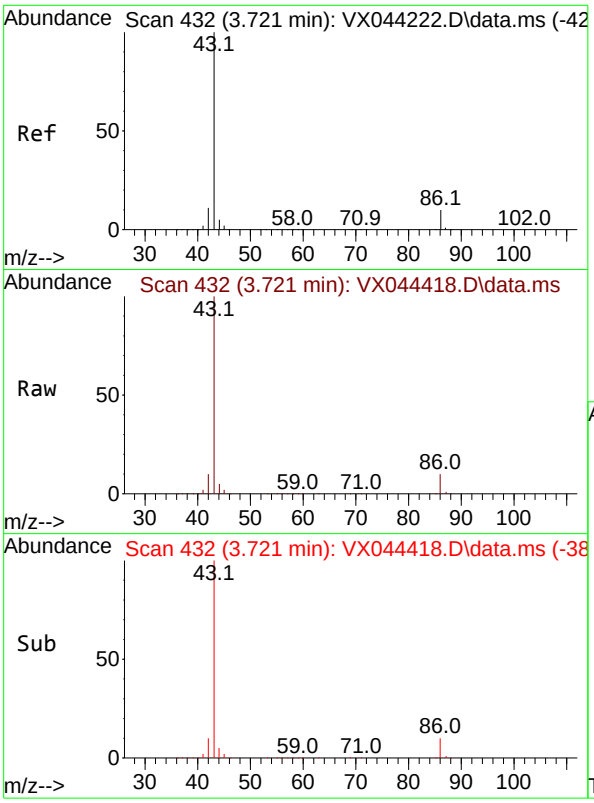


#22
Diisopropyl ether
Concen: 50.057 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 45 Resp: 246112

Ion	Ratio	Lower	Upper
45	100		
43	71.9	60.2	90.2
87	28.3	21.2	31.8
59	10.9	8.9	13.3



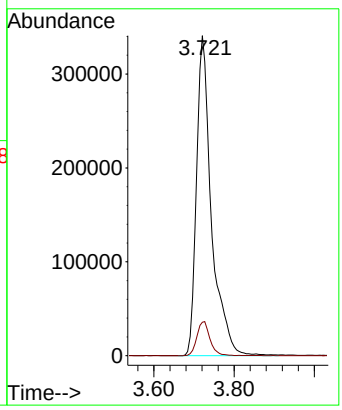


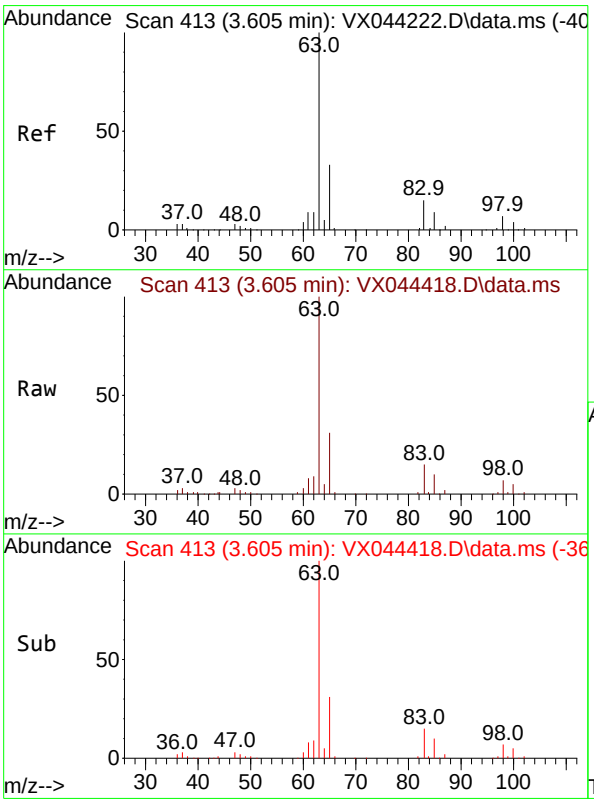
#23
Vinyl Acetate
Concen: 220.784 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 43 Resp: 882527

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.2

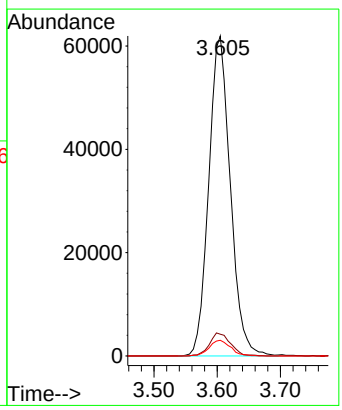


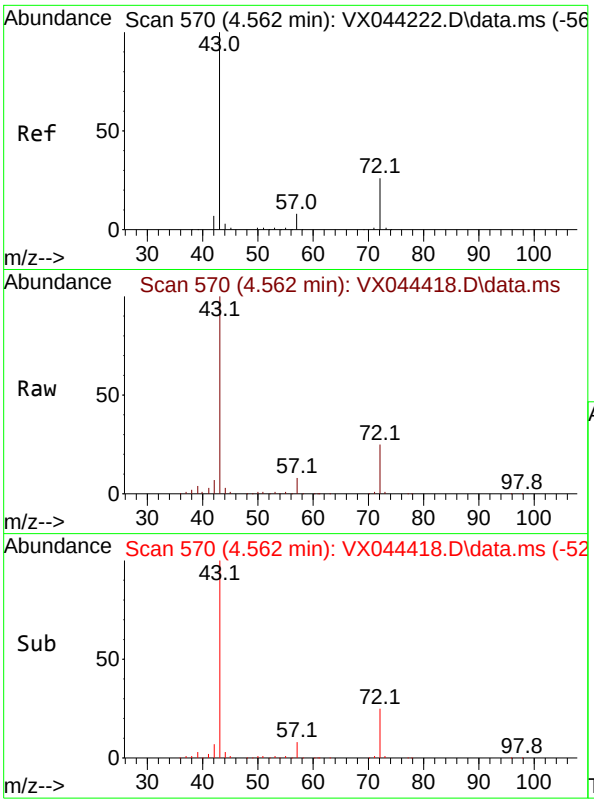


#24
1,1-Dichloroethane
Concen: 53.598 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 63 Resp: 146892

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.6	10.8
100	4.9	2.1	6.3



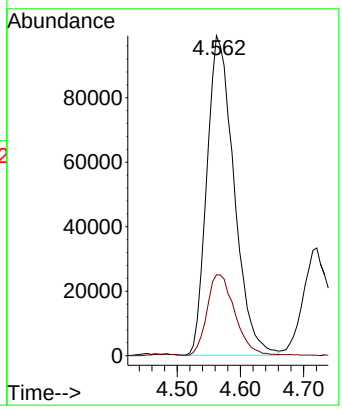


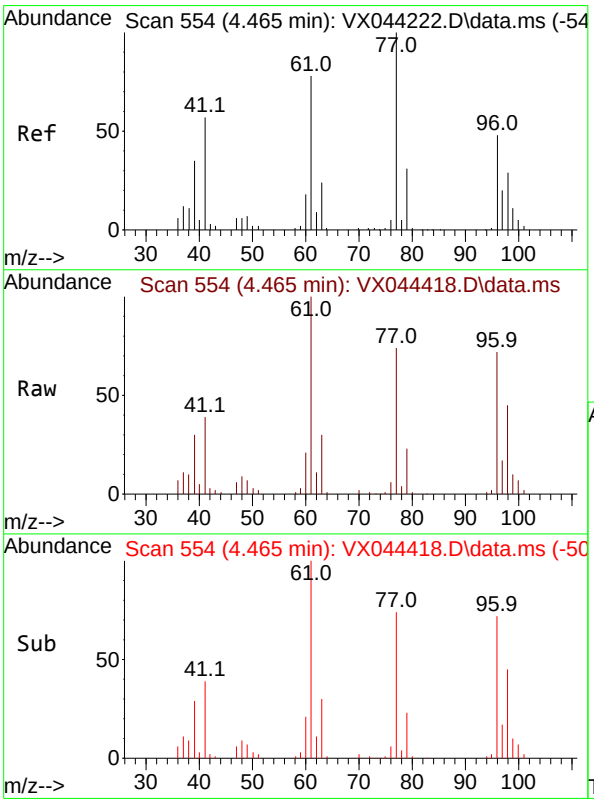
#25
2-Butanone
Concen: 248.629 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 43 Resp: 295478

Ion	Ratio	Lower	Upper
43	100		
72	25.0	20.2	30.4

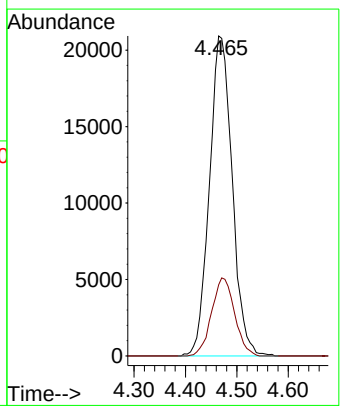


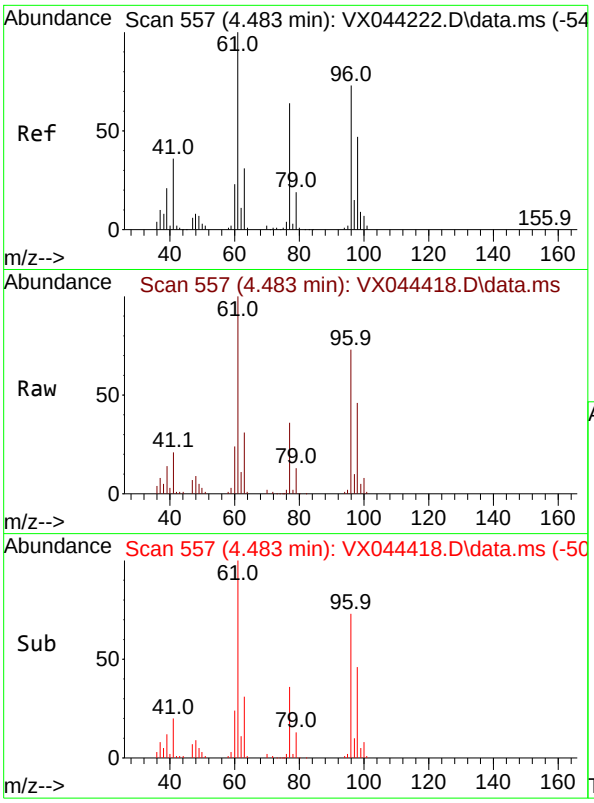


#26
2,2-Dichloropropane
Concen: 28.925 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 77 Resp: 64400

Ion	Ratio	Lower	Upper
77	100		
97	24.7	10.7	32.1



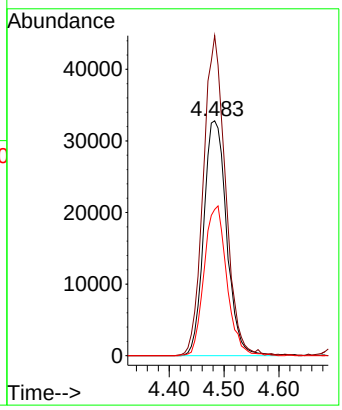


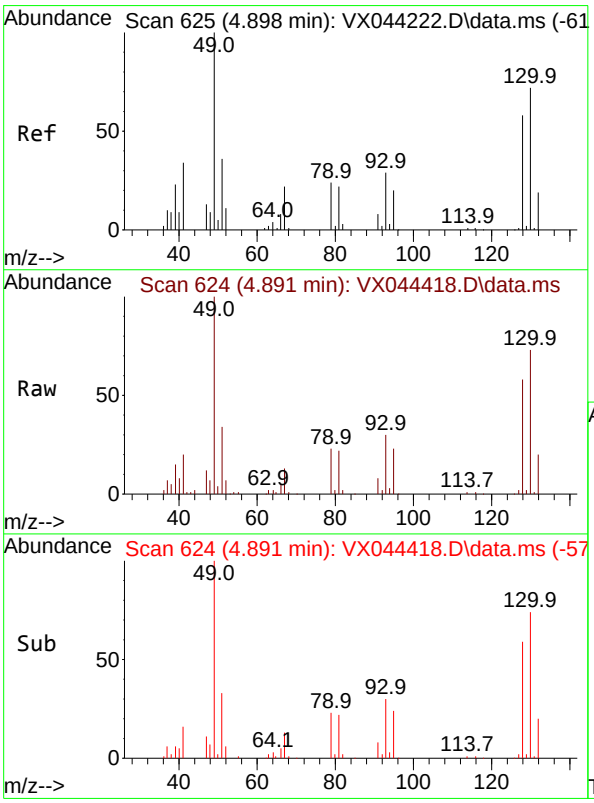
#27
cis-1,2-Dichloroethene
Concen: 53.571 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 96 Resp: 94786

Ion	Ratio	Lower	Upper
96	100		
61	132.4	0.0	299.0
98	63.2	0.0	129.0

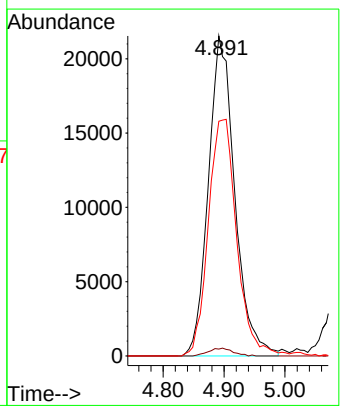


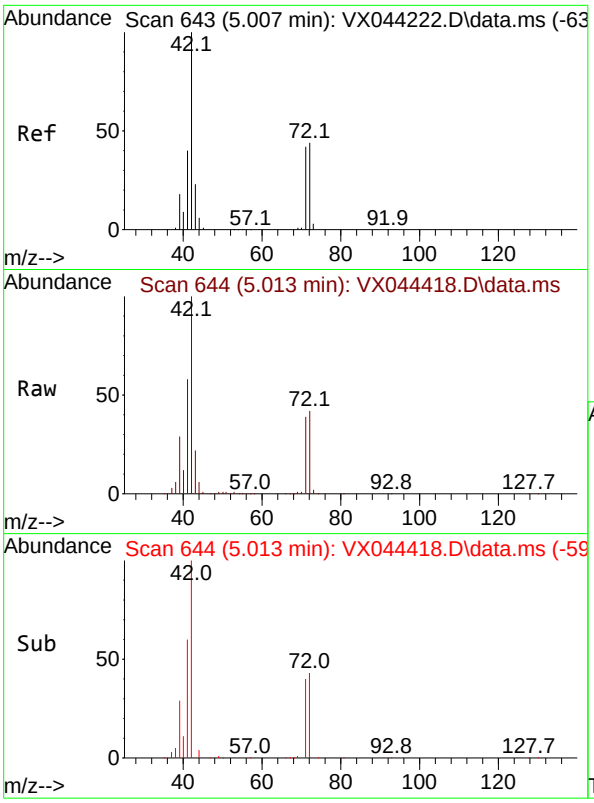


#28
Bromochloromethane
Concen: 48.286 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 49 Resp: 64892

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	79.3	62.1	93.1



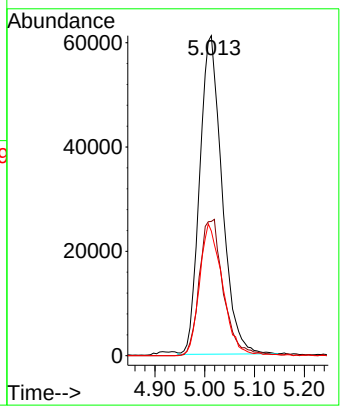


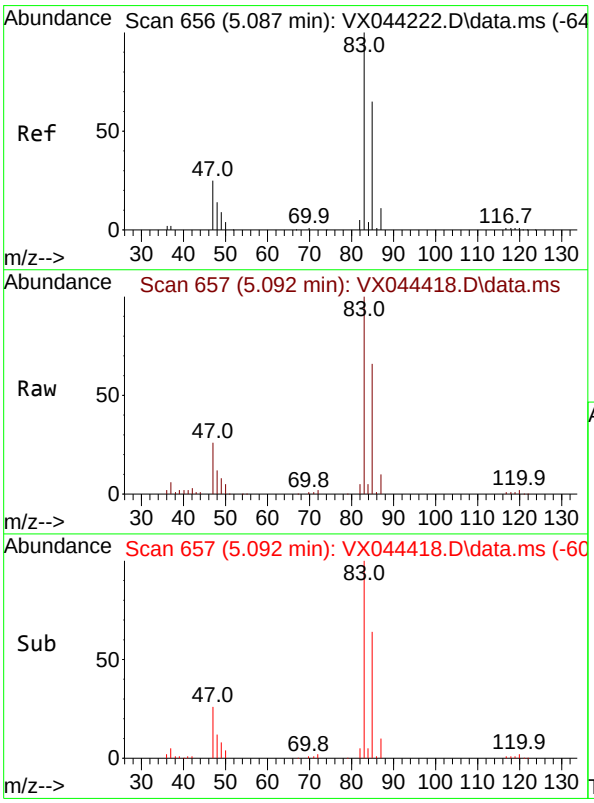
#29
Tetrahydrofuran
Concen: 249.164 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 42 Resp: 190066

Ion	Ratio	Lower	Upper
42	100		
72	45.9	37.0	55.6
71	42.8	33.6	50.4

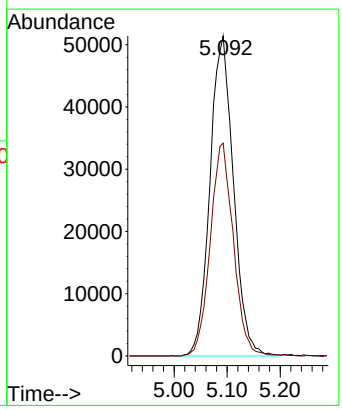


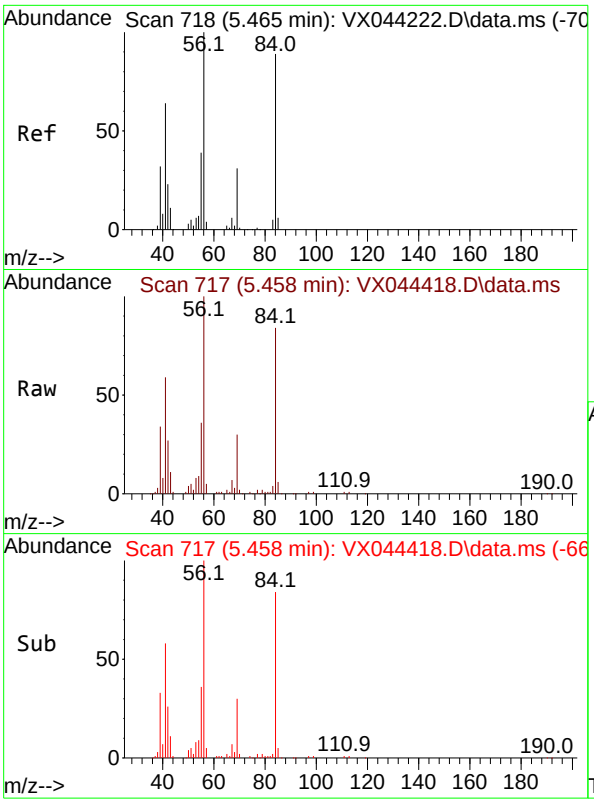


#30
Chloroform
Concen: 51.341 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 83 Resp: 158091

Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.6	77.4



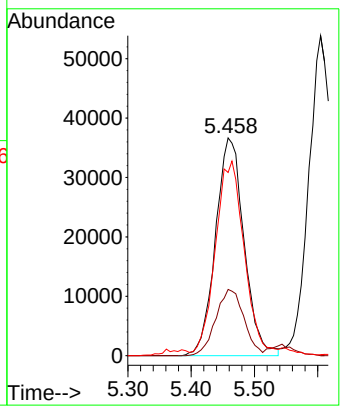


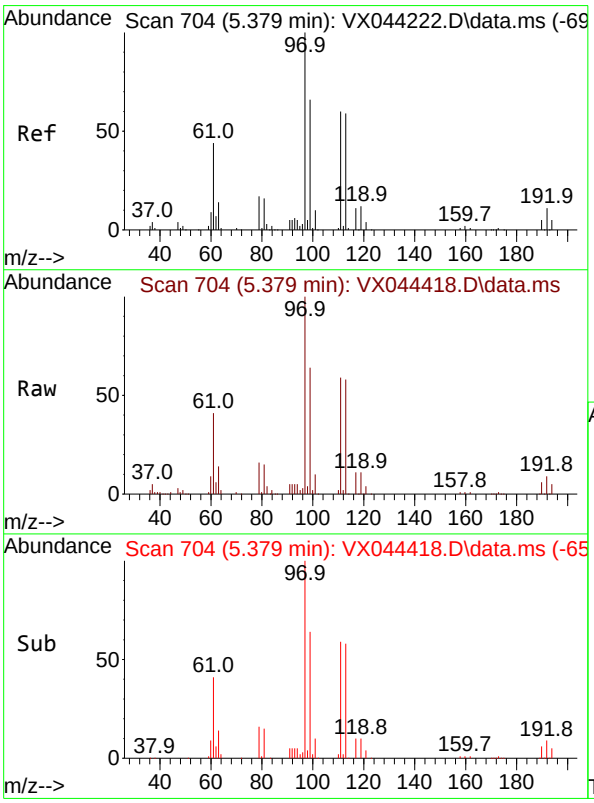
#31
Cyclohexane
Concen: 51.830 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 56 Resp: 114705

Ion	Ratio	Lower	Upper
56	100		
69	30.4	24.7	37.1
84	82.3	71.0	106.6

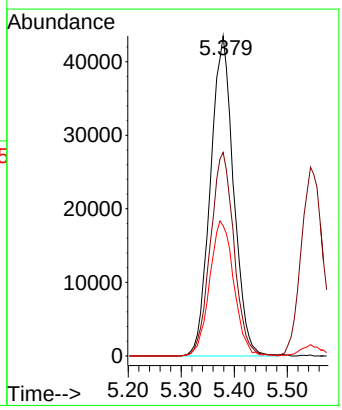


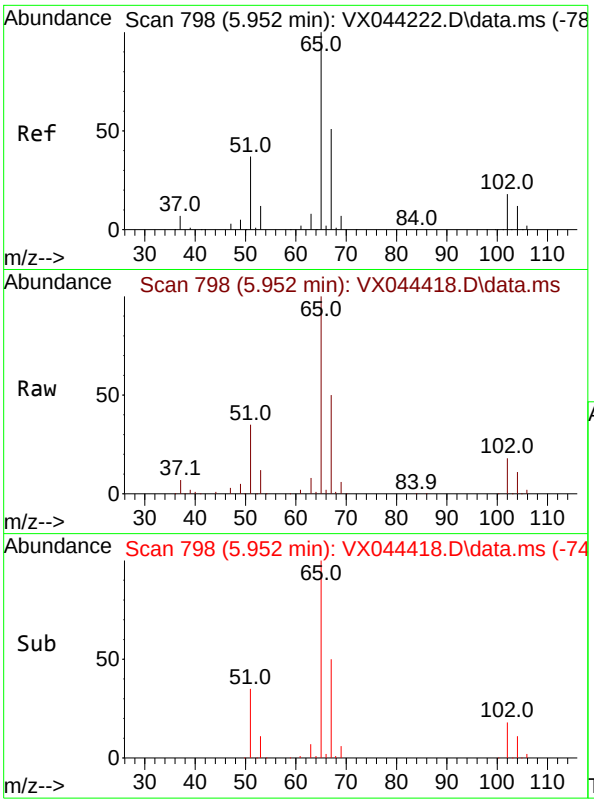


#32
1,1,1-Trichloroethane
Concen: 51.524 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 97 Resp: 131697

Ion	Ratio	Lower	Upper
97	100		
99	64.9	50.8	76.2
61	44.2	35.2	52.8



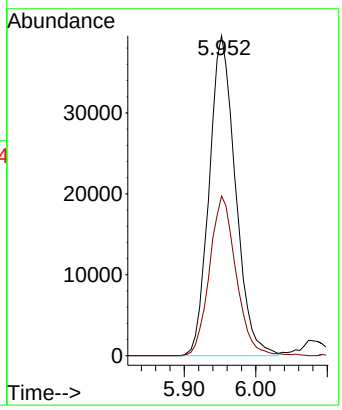


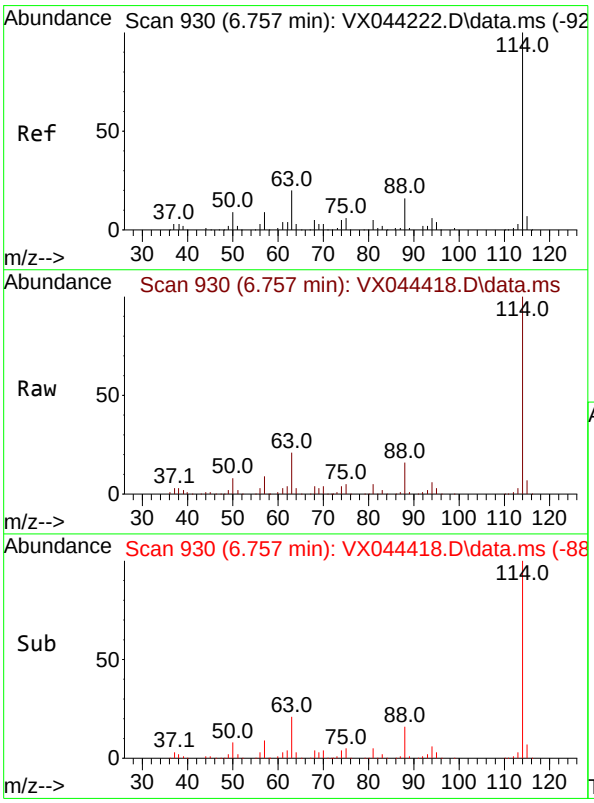
#33
1,2-Dichloroethane-d4
Concen: 49.102 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 65 Resp: 100683

Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	101.6

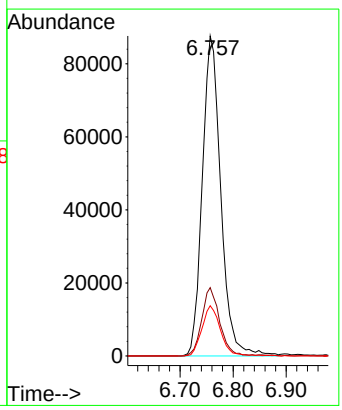


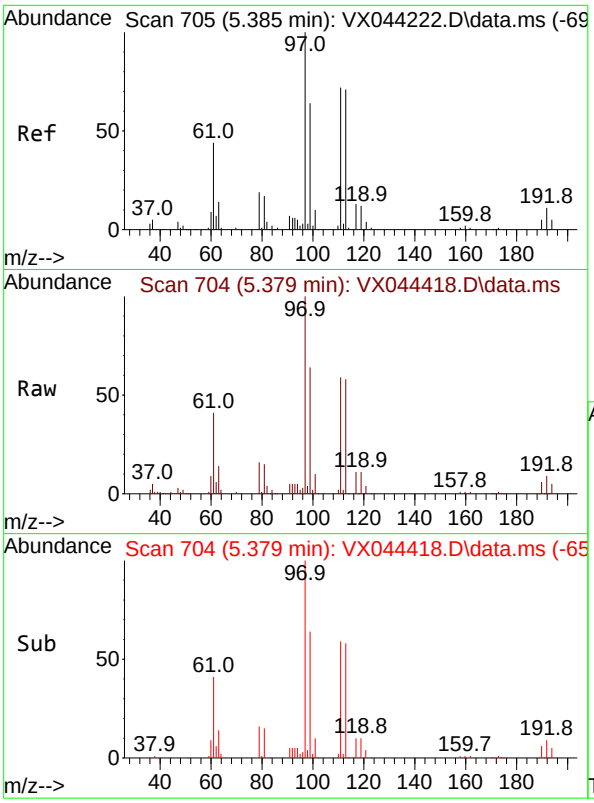


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:114 Resp: 212543

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	40.6
88	15.7	0.0	31.8



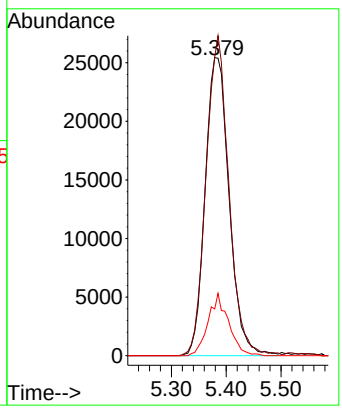


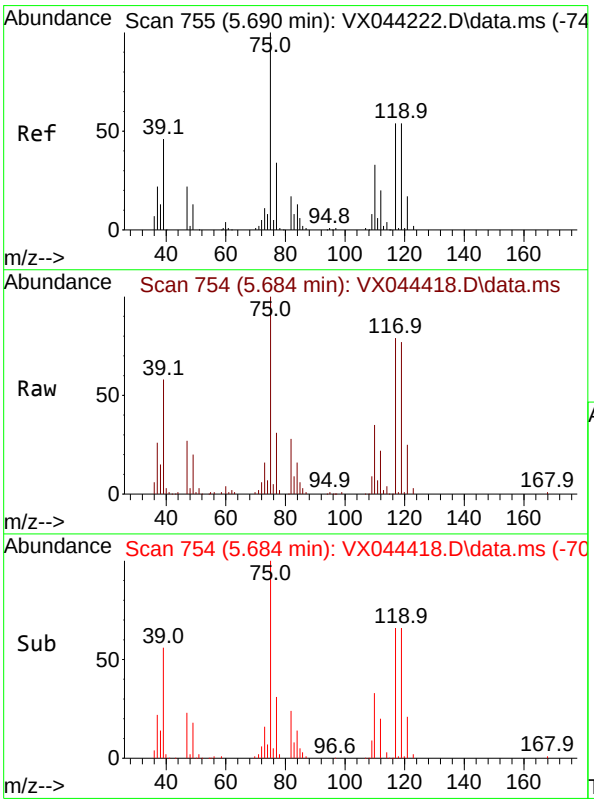
#35
Dibromofluoromethane
Concen: 52.606 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:113 Resp: 77439

Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.4	120.6
192	17.8	13.3	19.9

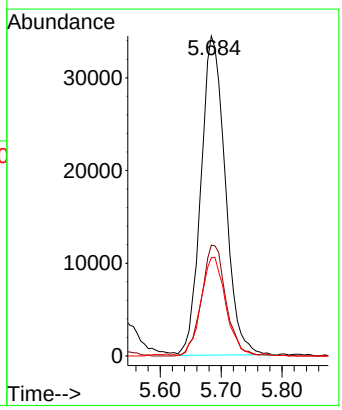


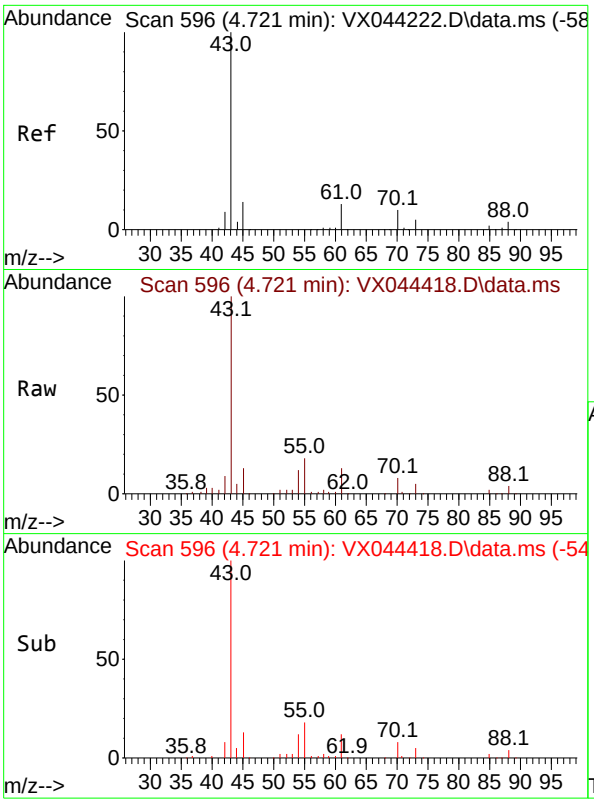


#36
1,1-Dichloropropene
Concen: 50.092 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 75 Resp: 95317

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.3	51.7
77	31.2	25.4	38.0



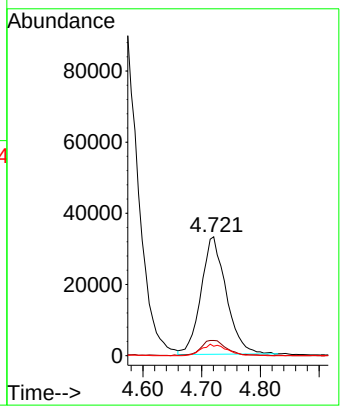


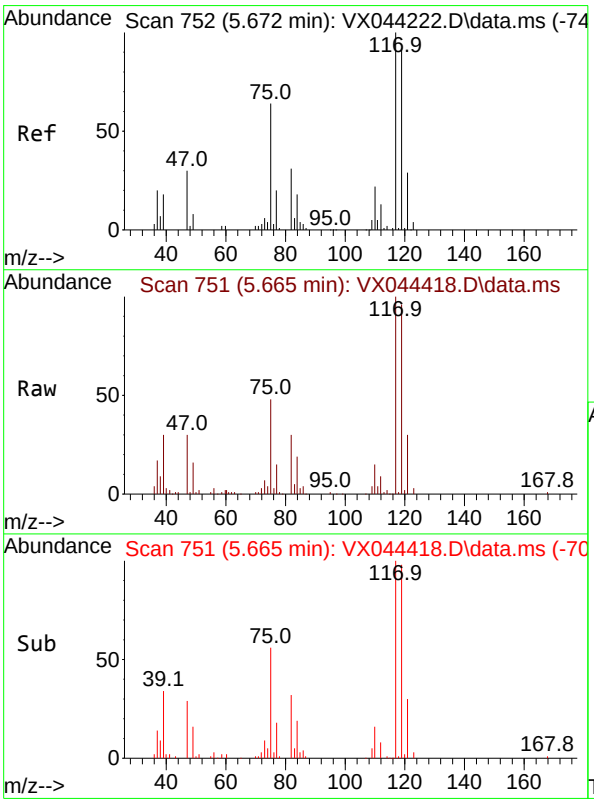
#37
Ethyl Acetate
Concen: 41.733 ug/l
RT: 4.721 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 43 Resp: 98162

Ion	Ratio	Lower	Upper
43	100		
61	13.6	9.8	14.8
70	9.8	7.7	11.5

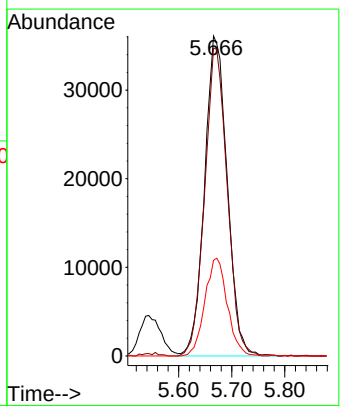


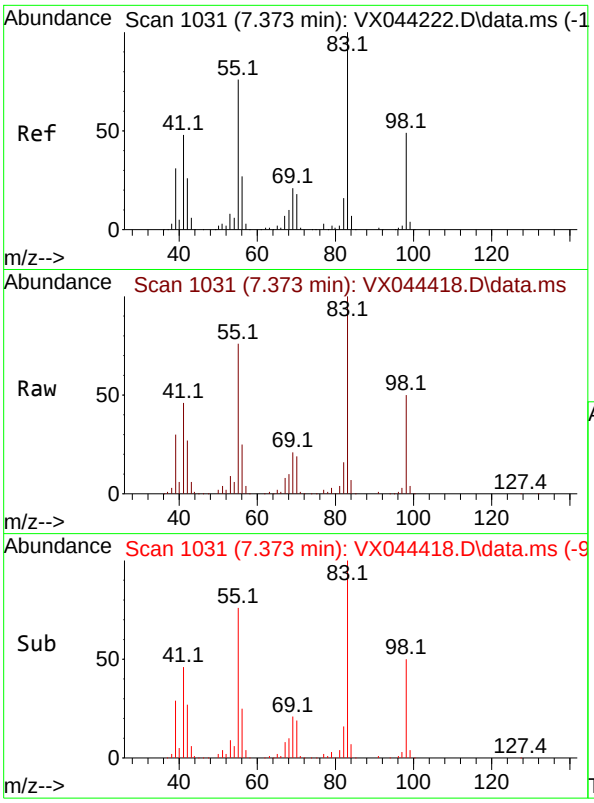


#38
Carbon Tetrachloride
Concen: 52.253 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:117 Resp: 107044

Ion	Ratio	Lower	Upper
117	100		
119	96.2	74.2	111.4
121	29.9	23.0	34.6



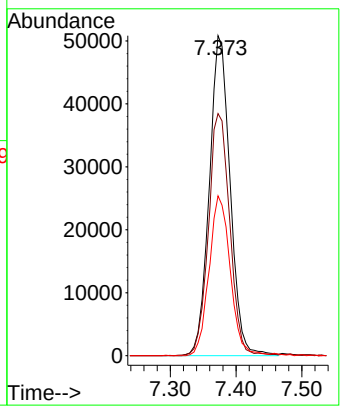


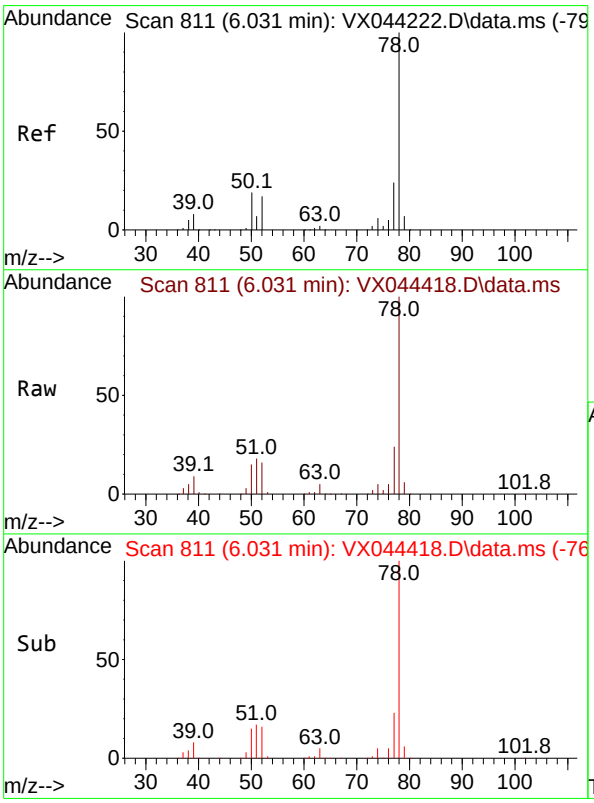
#39
Methylcyclohexane
Concen: 49.208 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 83 Resp: 111938

Ion	Ratio	Lower	Upper
83	100		
55	75.5	60.7	91.1
98	50.0	38.9	58.3

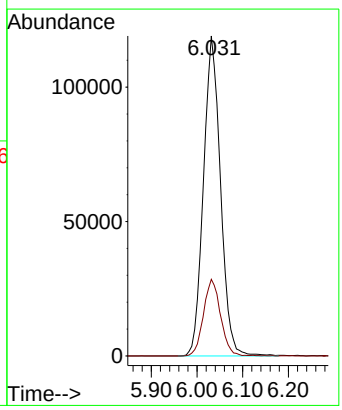


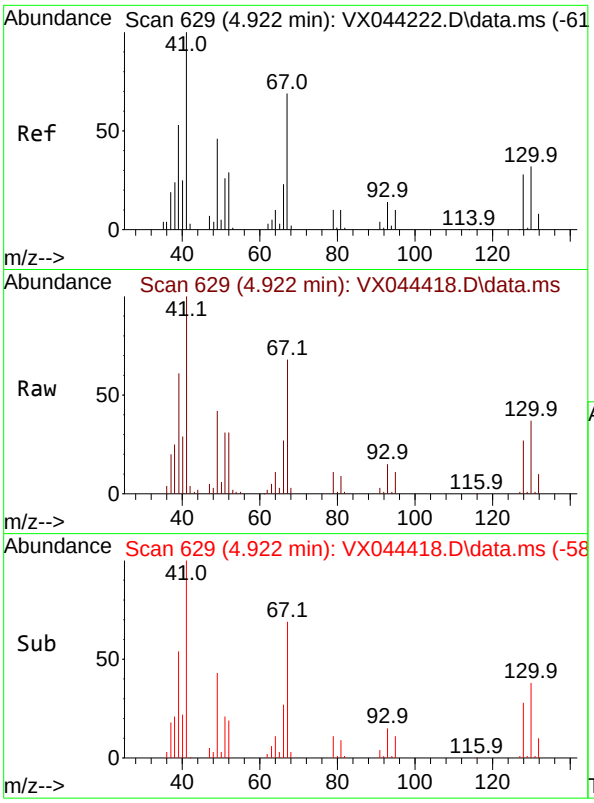


#40
Benzene
Concen: 53.397 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 78 Resp: 308489

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.3	28.9



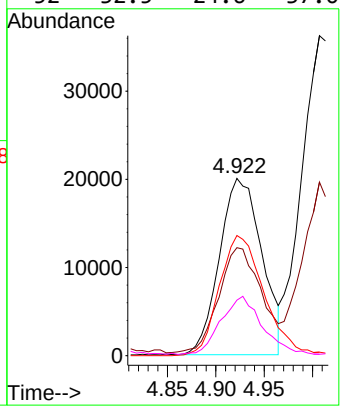


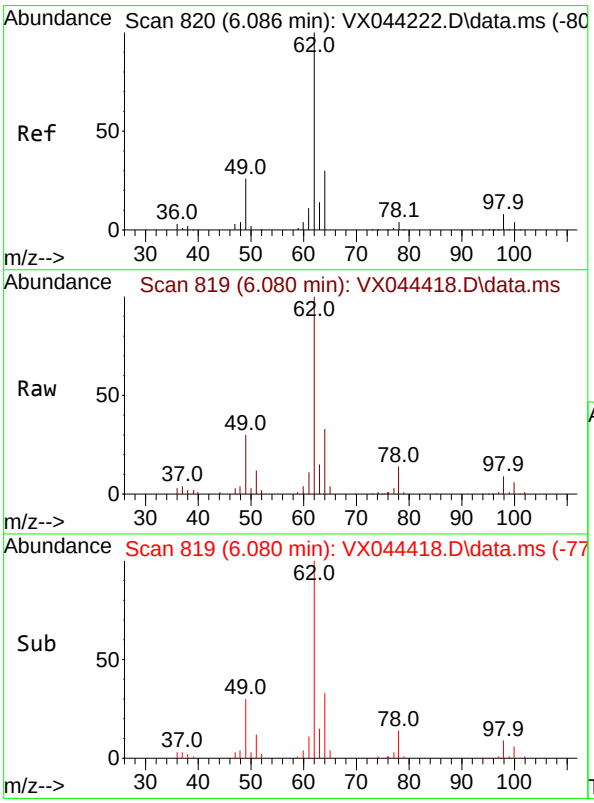
#41
Methacrylonitrile
Concen: 48.914 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 41 Resp: 61093

Ion	Ratio	Lower	Upper
41	100		
39	59.0	44.2	66.4
67	73.0	57.2	85.8
52	32.5	24.6	37.0

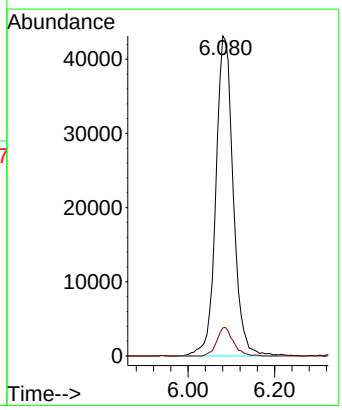


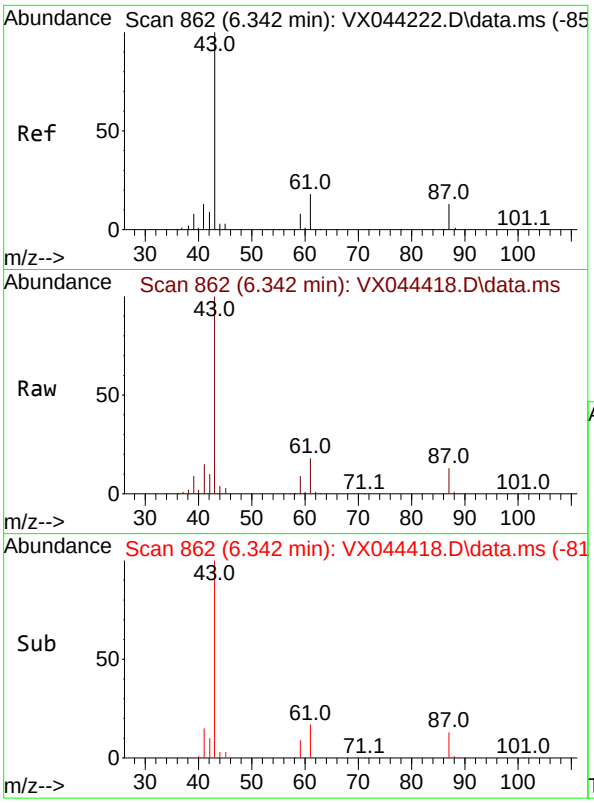


#42
1,2-Dichloroethane
Concen: 50.501 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 62 Resp: 120186

Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	15.8



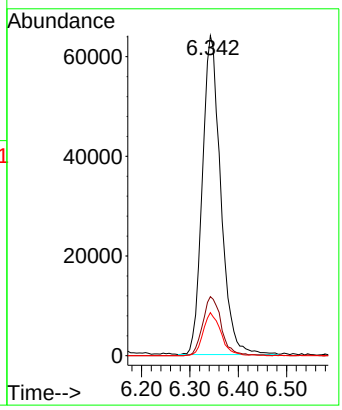


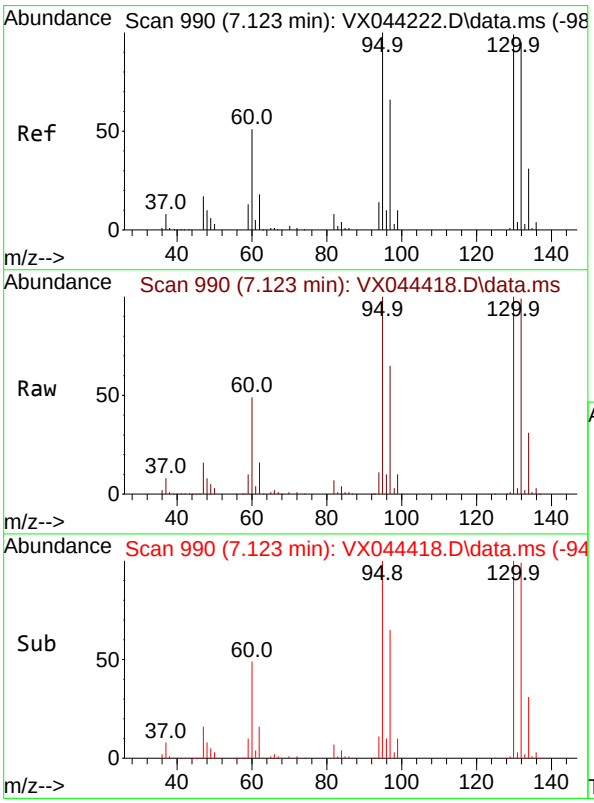
#43
Isopropyl Acetate
Concen: 45.950 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 43 Resp: 168928

Ion	Ratio	Lower	Upper
43	100		
61	18.8	14.2	21.2
87	13.0	10.2	15.2

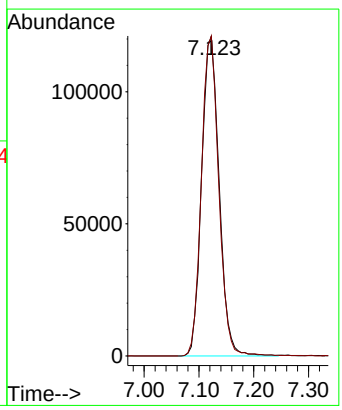


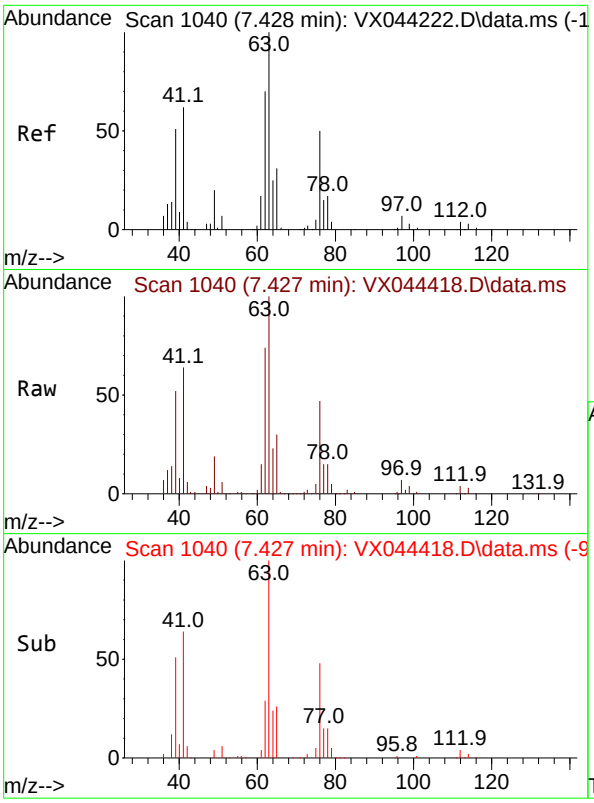


#44
Trichloroethene
Concen: 185.797 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:130 Resp: 267679

Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	201.4



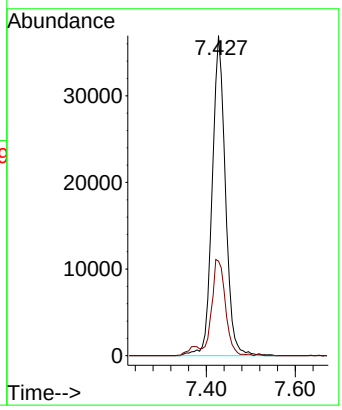


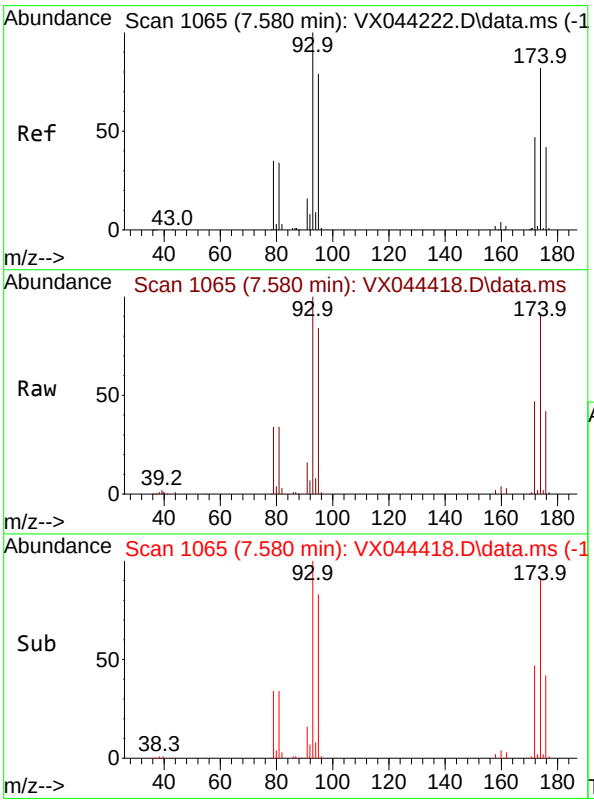
#45
1,2-Dichloropropane
Concen: 51.732 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 63 Resp: 76356

Ion	Ratio	Lower	Upper
63	100		
65	29.6	24.6	37.0

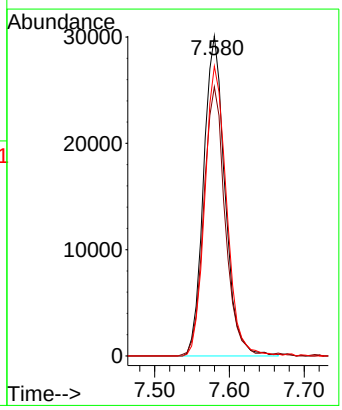


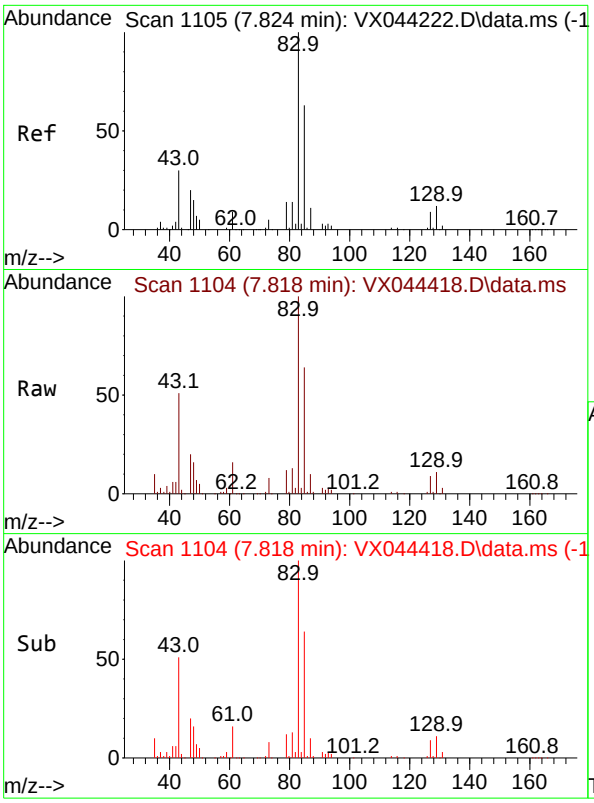


#46
Dibromomethane
Concen: 52.060 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 93 Resp: 59613

Ion	Ratio	Lower	Upper
93	100		
95	84.5	65.4	98.2
174	92.4	67.9	101.9



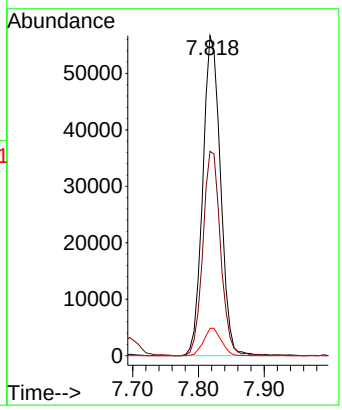


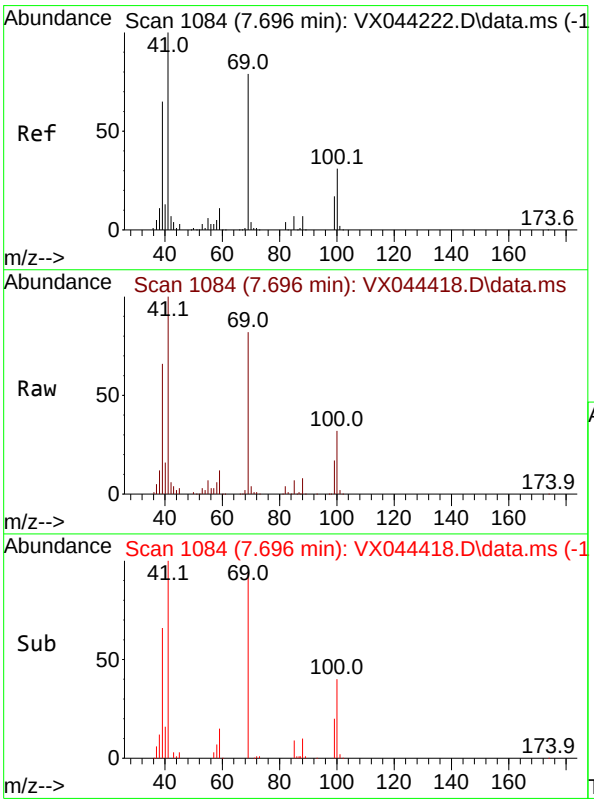
#47
Bromodichloromethane
Concen: 53.860 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a...

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 83 Resp: 106514

Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.6	75.8
127	8.6	7.3	10.9

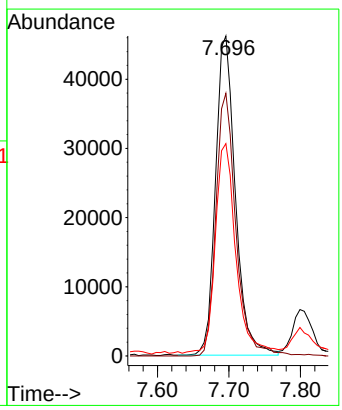


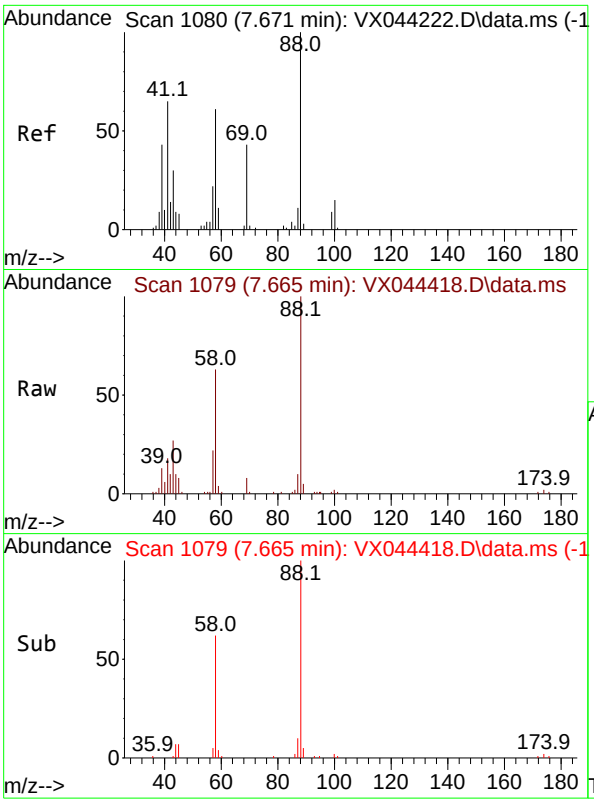


#48
Methyl methacrylate
Concen: 49.967 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 41 Resp: 89170

Ion	Ratio	Lower	Upper
41	100		
69	82.9	62.4	93.6
39	67.2	53.3	79.9



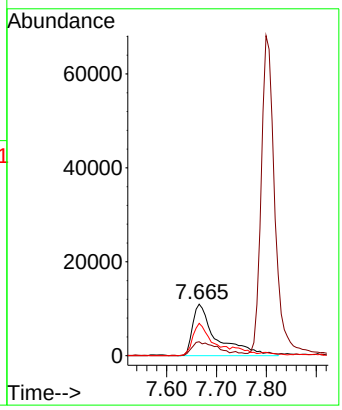


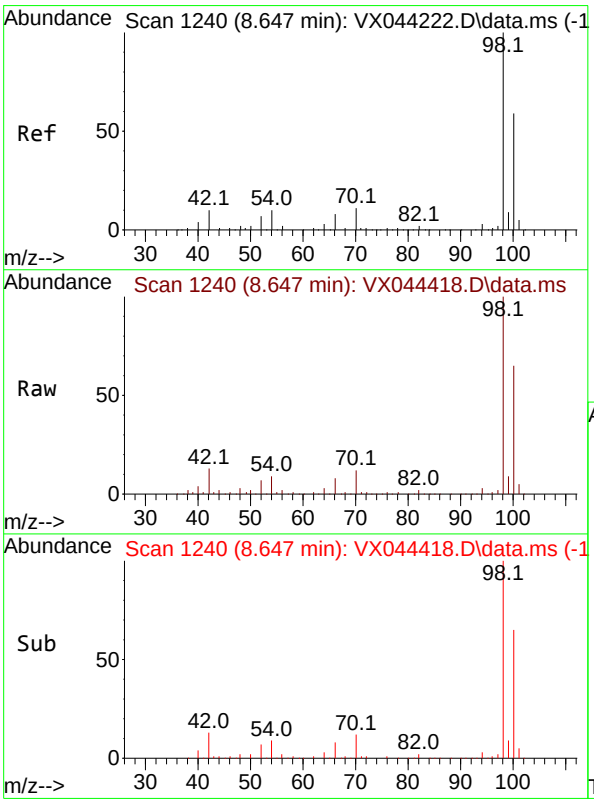
#49
1,4-Dioxane
Concen: 1236.819 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 88 Resp: 36595

Ion	Ratio	Lower	Upper
88	100		
43	28.3	27.1	40.7
58	50.2	41.0	61.4

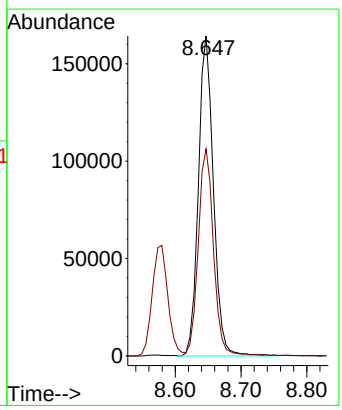


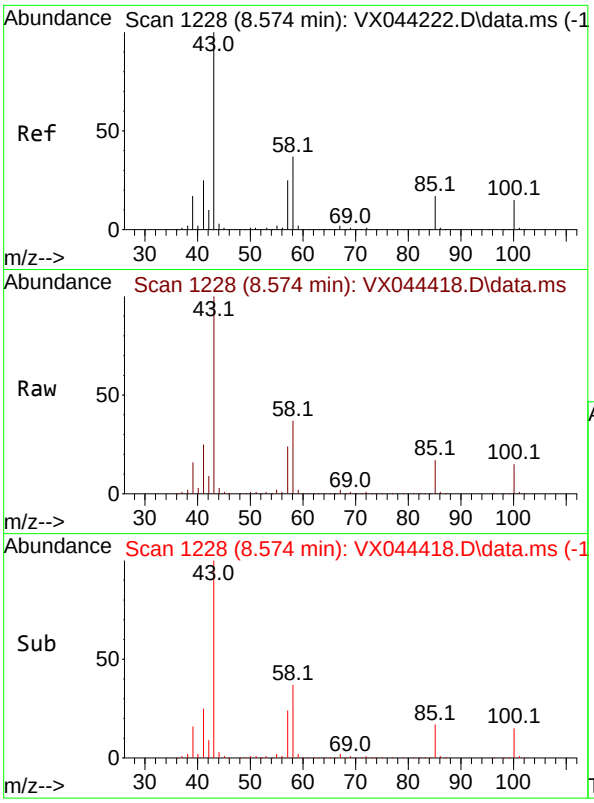


#50
Toluene-d8
Concen: 52.508 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 98 Resp: 260771

Ion	Ratio	Lower	Upper
98	100		
100	65.7	51.5	77.3



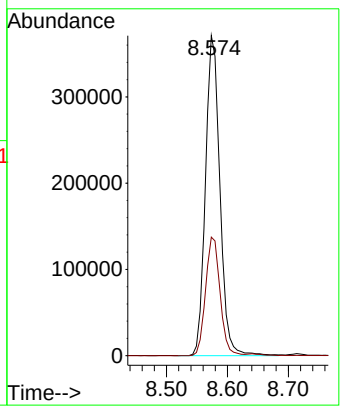


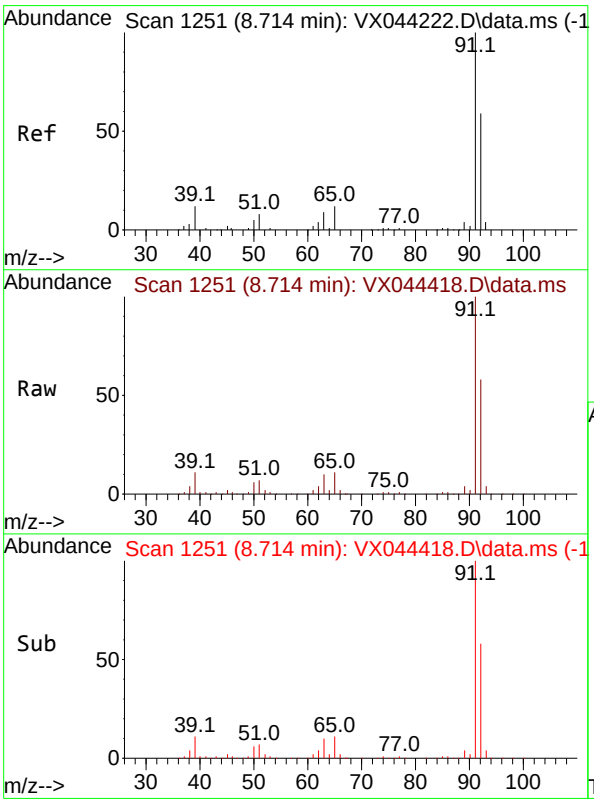
#51
4-Methyl-2-Pentanone
Concen: 259.119 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 43 Resp: 612508

Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.4	44.0

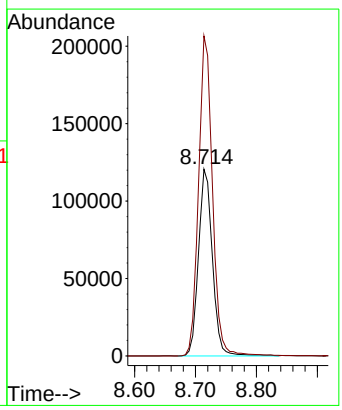


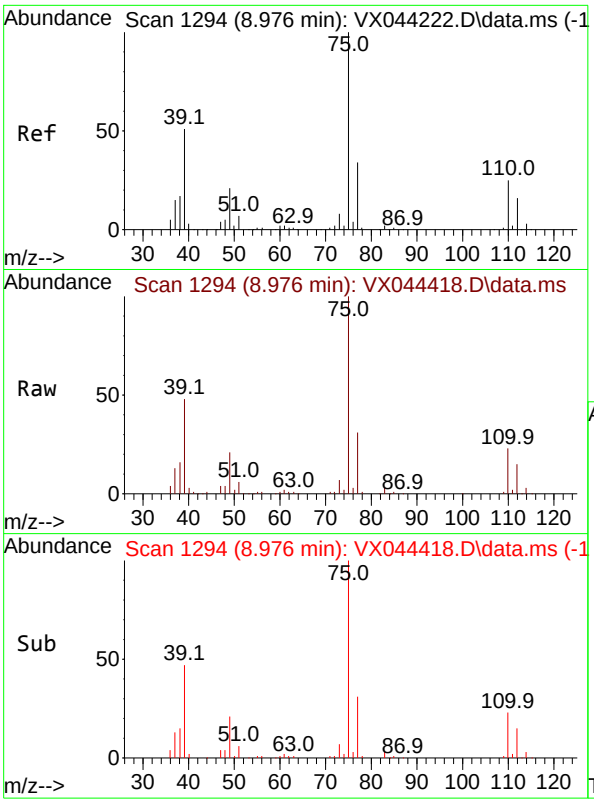


#52
Toluene
Concen: 52.936 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 92 Resp: 192052

Ion	Ratio	Lower	Upper
92	100		
91	171.4	137.0	205.6



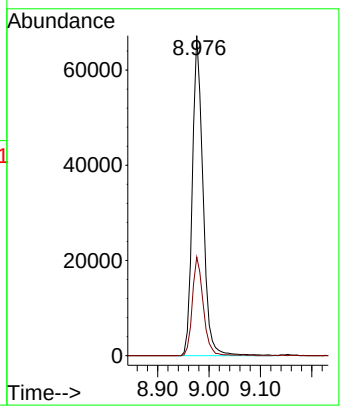


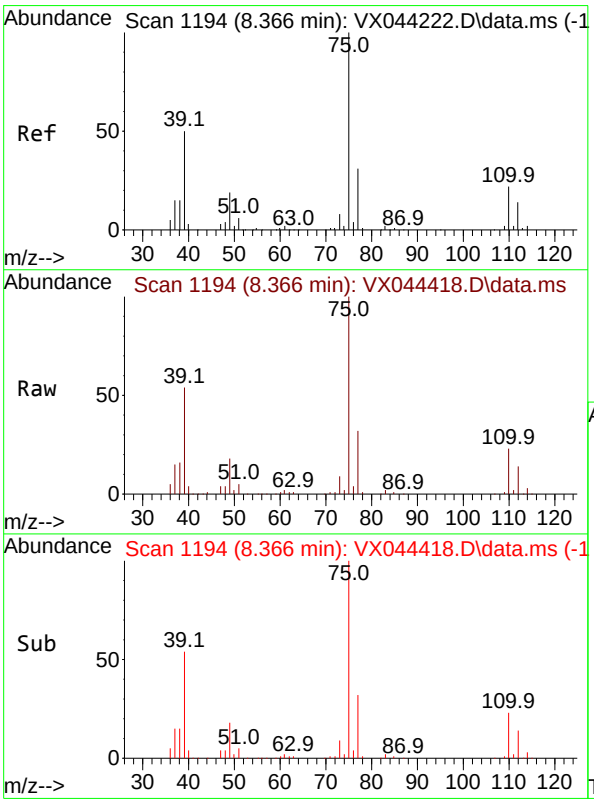
#53
t-1,3-Dichloropropene
Concen: 46.021 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 75 Resp: 97126

Ion	Ratio	Lower	Upper
75	100		
77	30.9	27.2	40.8

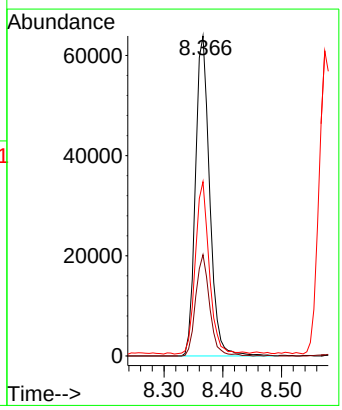


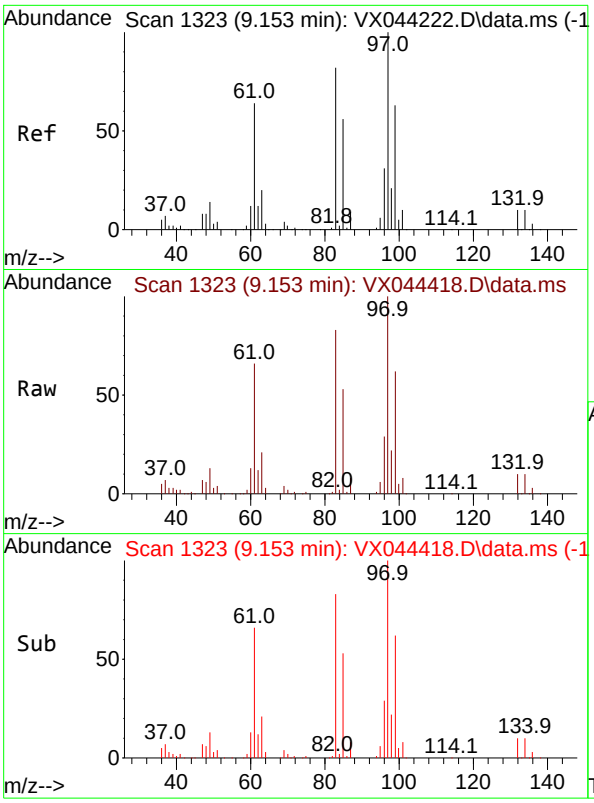


#54
cis-1,3-Dichloropropene
Concen: 49.904 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 75 Resp: 107458

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.7	37.1
39	53.7	40.3	60.5



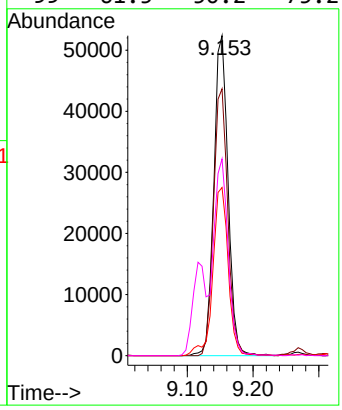


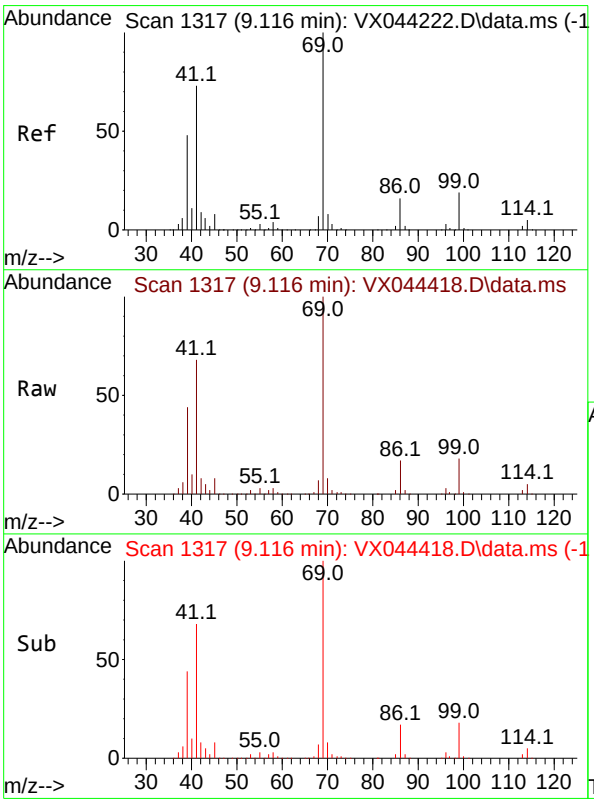
#55
1,1,2-Trichloroethane
Concen: 54.799 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 97 Resp: 78981

Ion	Ratio	Lower	Upper
97	100		
83	83.4	65.3	97.9
85	52.5	44.6	67.0
99	61.5	50.2	75.2

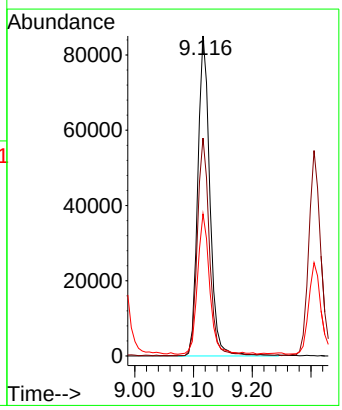


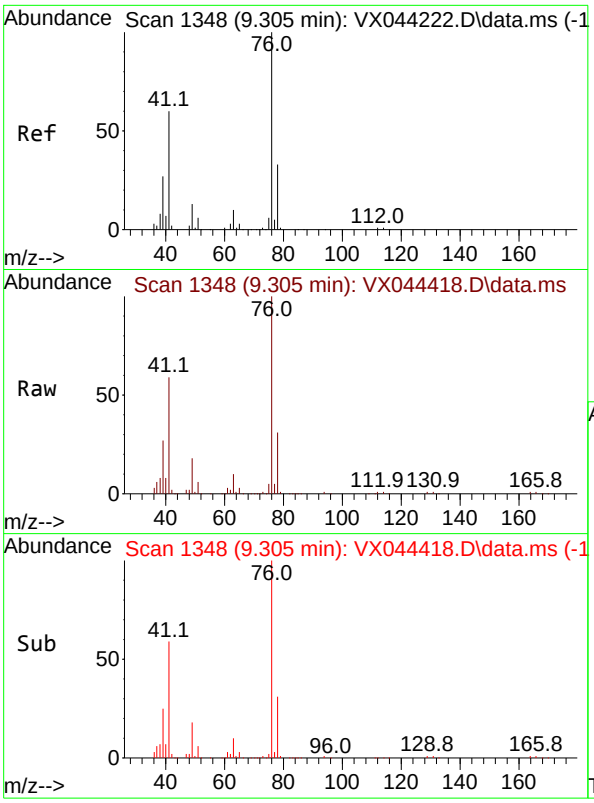


#56
Ethyl methacrylate
Concen: 53.416 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 69 Resp: 121540

Ion	Ratio	Lower	Upper
69	100		
41	67.6	56.6	85.0
39	43.7	37.4	56.0



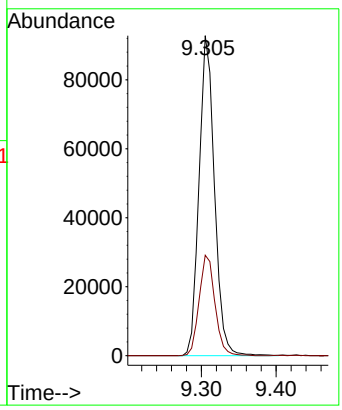


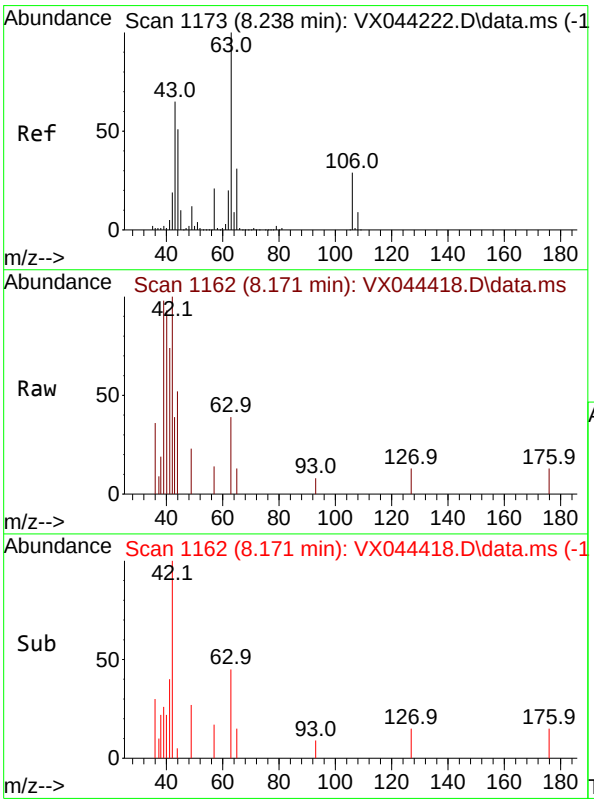
#57
1,3-Dichloropropane
Concen: 52.942 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 76 Resp: 132816

Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.5	39.7

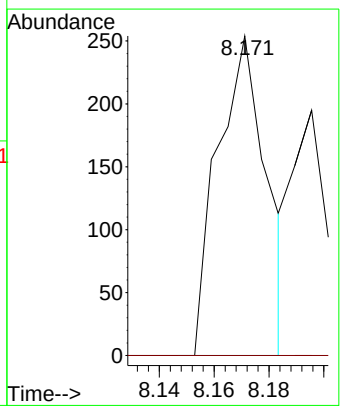


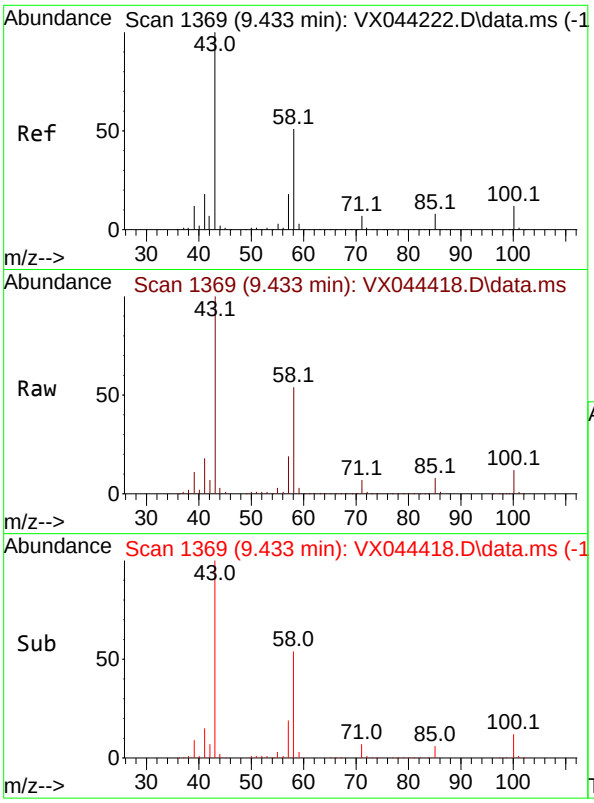


#58
2-Chloroethyl Vinyl ether
Concen: 0.274 ug/l
RT: 8.171 min Scan# 1162
Delta R.T. -0.067 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 63 Resp: 315

Ion	Ratio	Lower	Upper
63	100		
106	0.0	22.8	34.2#



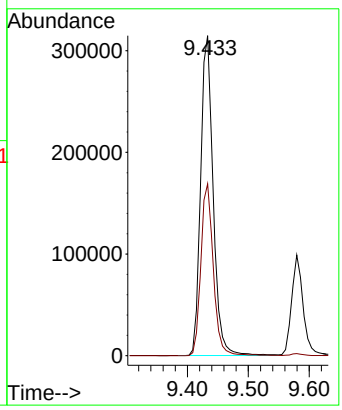


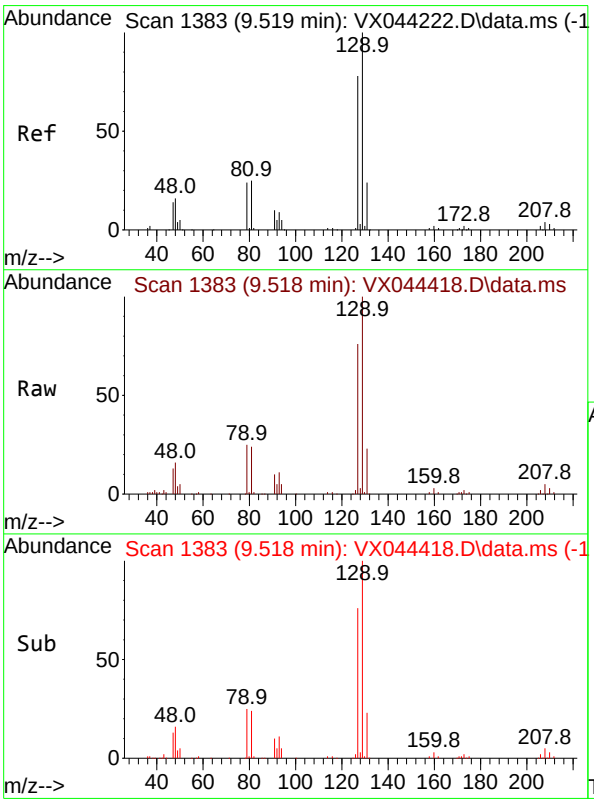
#59
2-Hexanone
Concen: 262.936 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 43 Resp: 449879

Ion	Ratio	Lower	Upper
43	100		
58	53.4	25.7	77.0

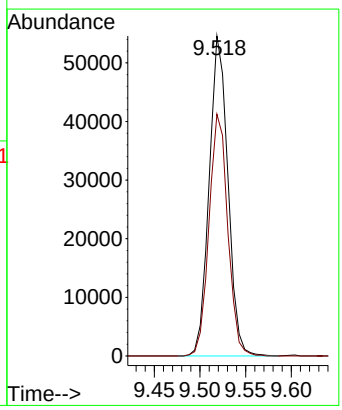


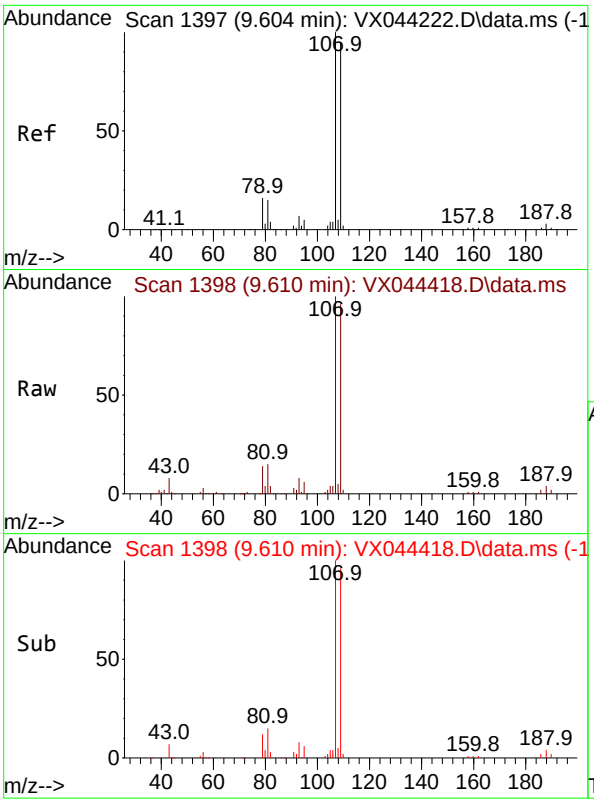


#60
Dibromochloromethane
Concen: 50.885 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:129 Resp: 77763

Ion	Ratio	Lower	Upper
129	100		
127	75.6	38.5	115.3



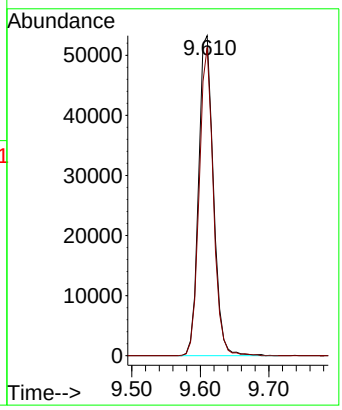


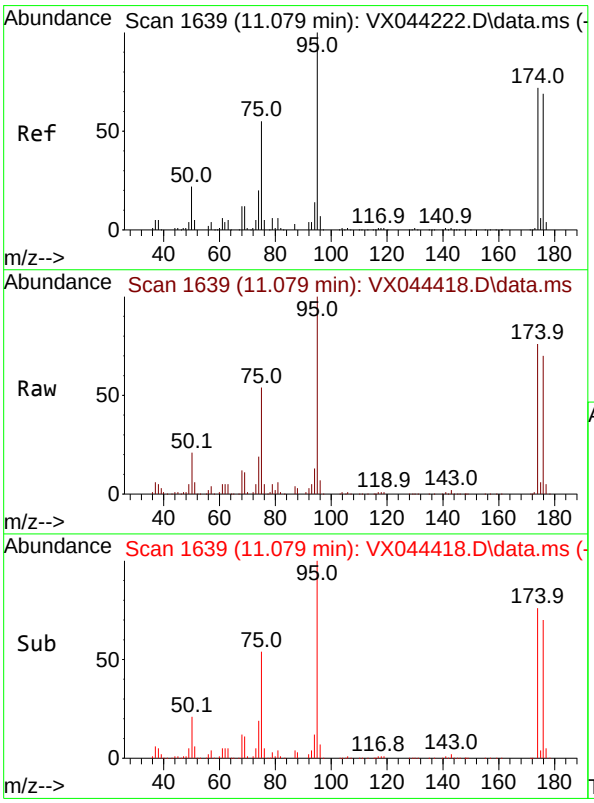
#61
1,2-Dibromoethane
Concen: 54.710 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:107 Resp: 80264

Ion	Ratio	Lower	Upper
107	100		
109	92.2	77.0	115.4

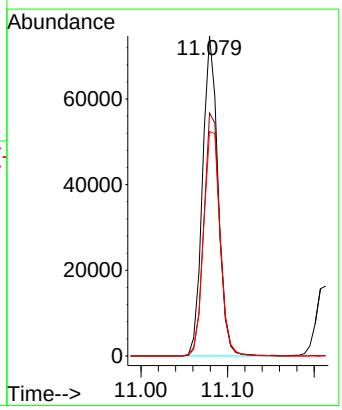


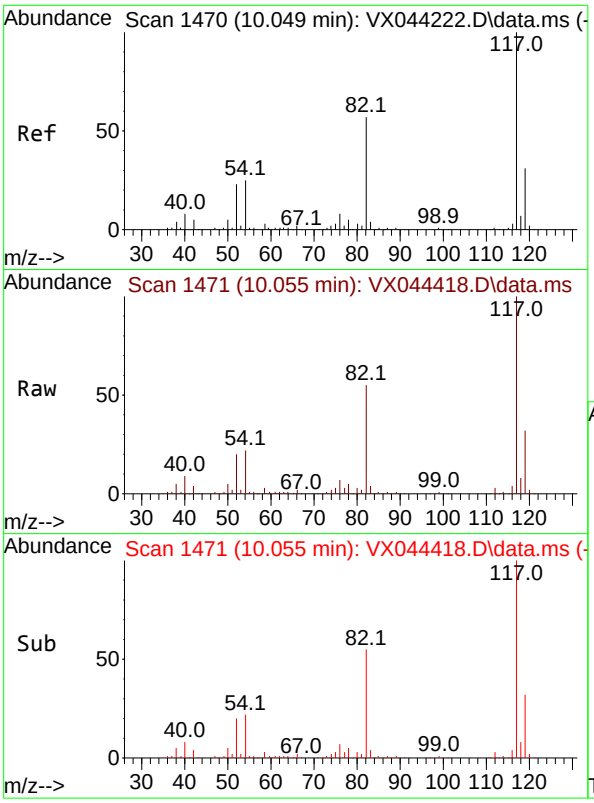


#62
4-Bromofluorobenzene
Concen: 53.347 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 95 Resp: 92575

Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	145.8
176	75.2	0.0	137.8



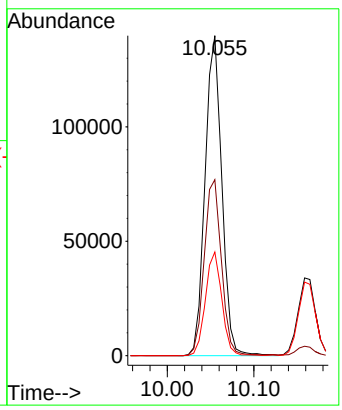


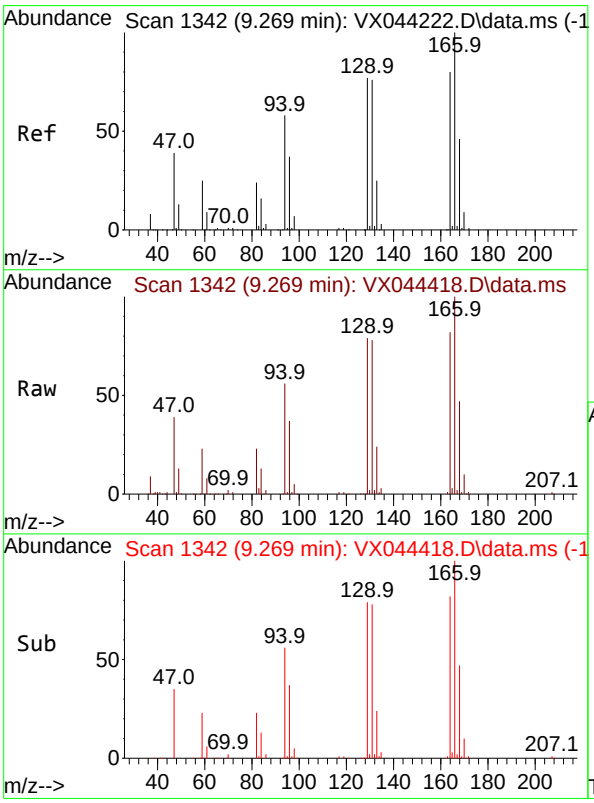
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:117 Resp: 188325

Ion	Ratio	Lower	Upper
117	100		
82	55.0	45.8	68.8
119	32.4	25.0	37.4

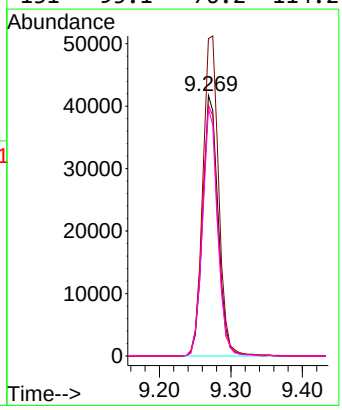


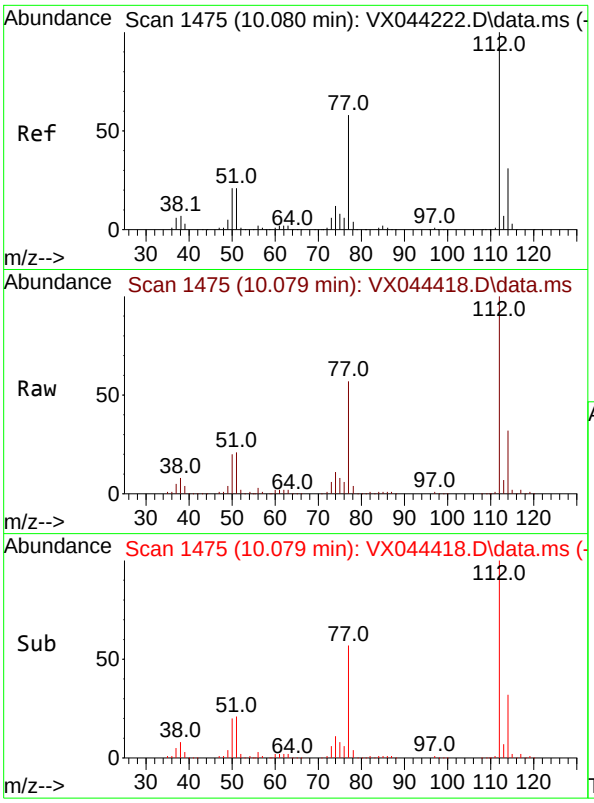


#64
Tetrachloroethene
Concen: 49.825 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:164 Resp: 62279

Ion	Ratio	Lower	Upper
164	100		
166	121.8	100.4	150.6
129	96.2	77.2	115.8
131	95.1	76.2	114.2



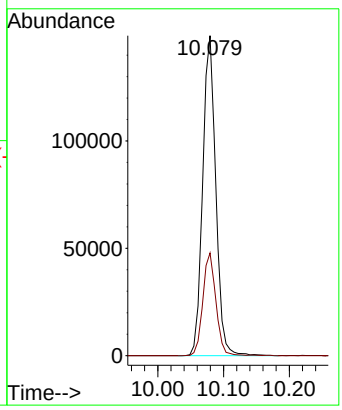


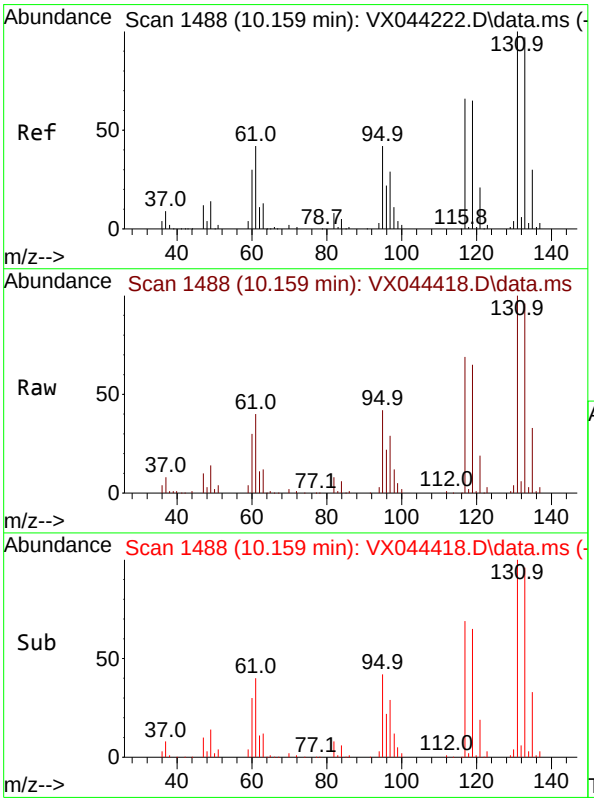
#65
Chlorobenzene
Concen: 51.150 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:112 Resp: 206411

Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.0	37.6

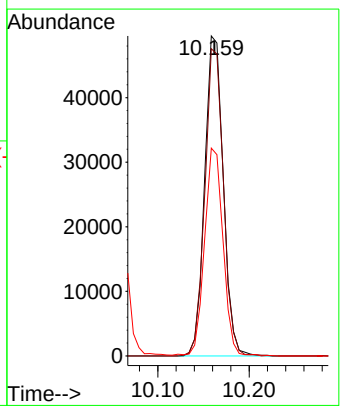


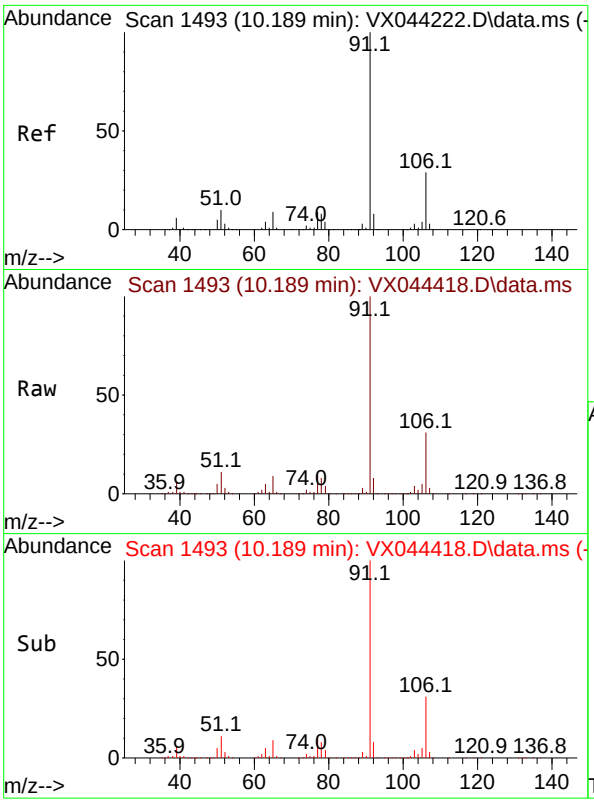


#66
1,1,1,2-Tetrachloroethane
Concen: 53.786 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:131 Resp: 69756

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	141.8
119	64.7	31.6	95.0



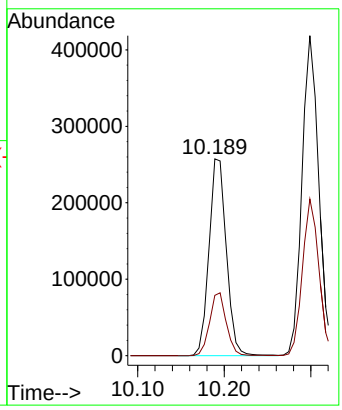


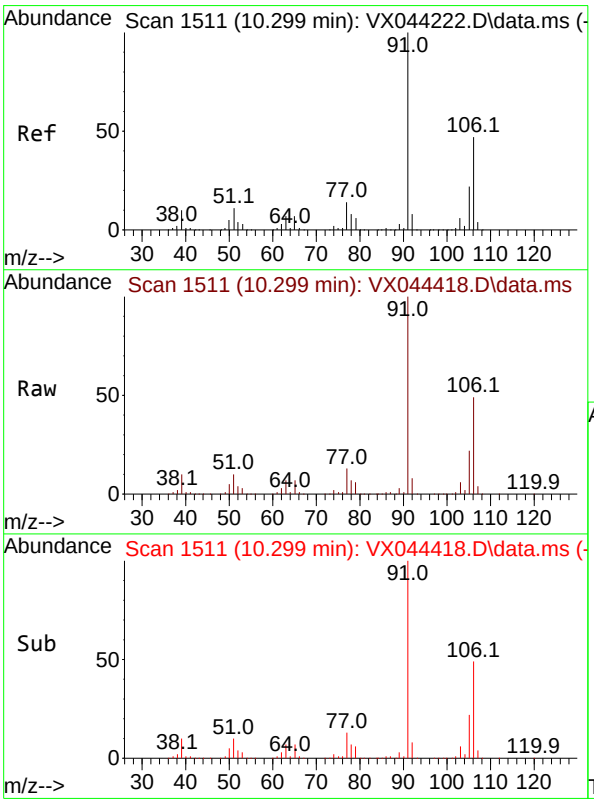
#67
Ethyl Benzene
Concen: 51.351 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 91 Resp: 358045

Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.5	35.3

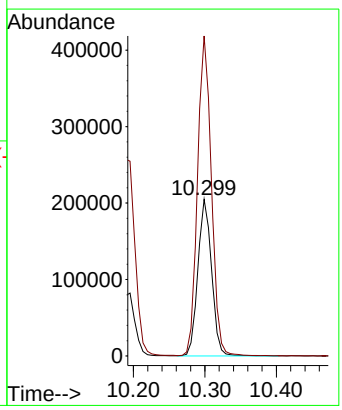


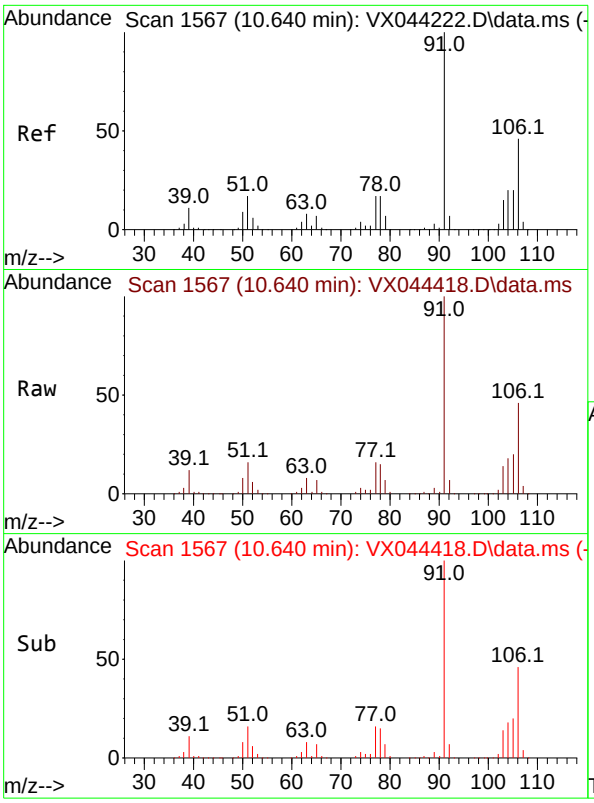


#68
m/p-Xylenes
Concen: 106.570 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:106 Resp: 272658

Ion	Ratio	Lower	Upper
106	100		
91	206.6	170.2	255.2



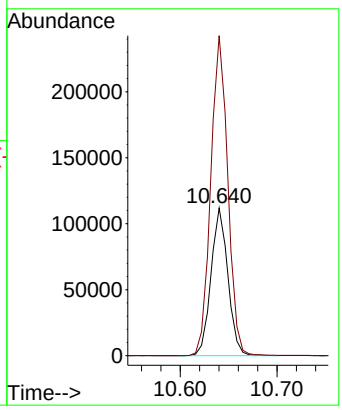


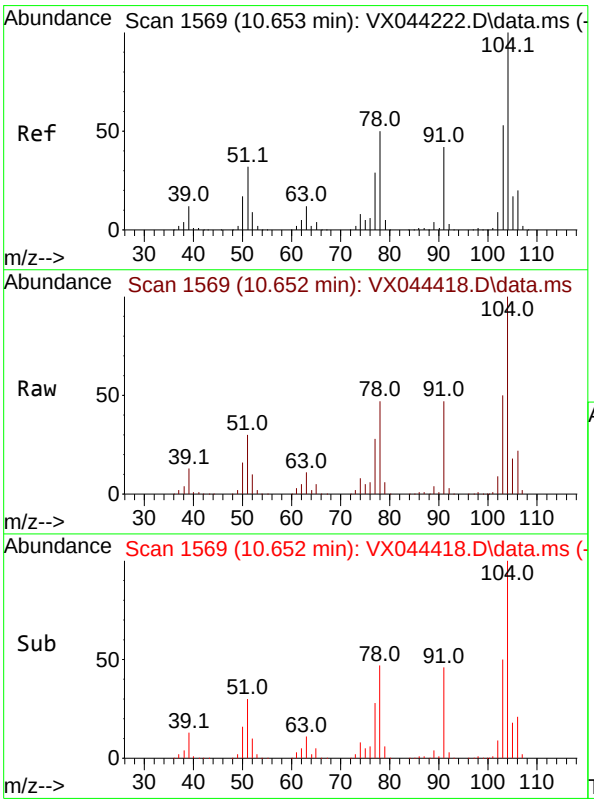
#69
o-Xylene
Concen: 52.382 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:106 Resp: 135601

Ion	Ratio	Lower	Upper
106	100		
91	219.0	112.3	337.0

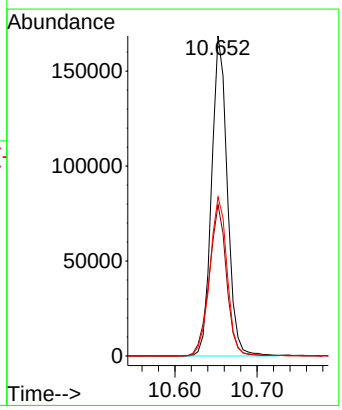


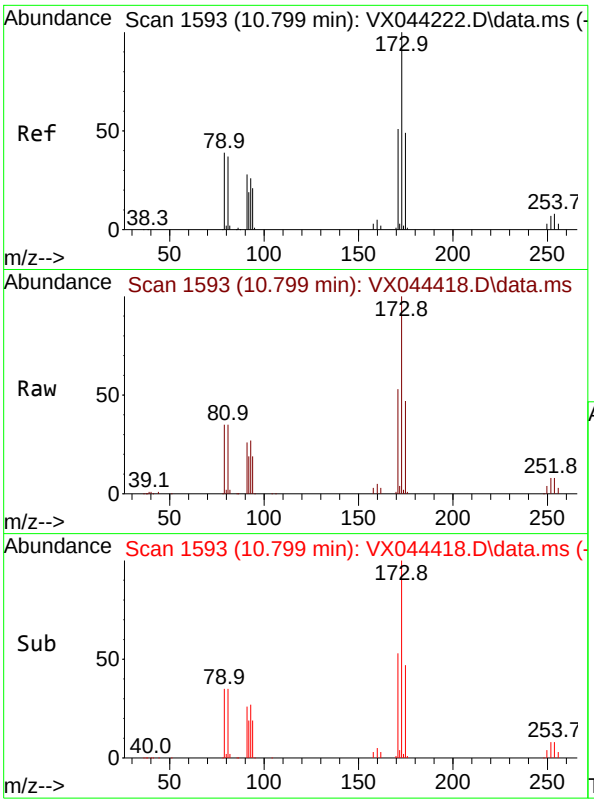


#70
Styrene
Concen: 53.973 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:104 Resp: 223981

Ion	Ratio	Lower	Upper
104	100		
78	52.1	44.6	67.0
103	54.9	45.4	68.0



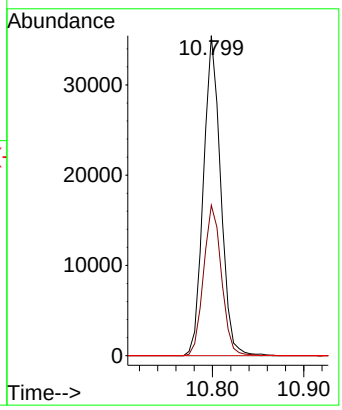


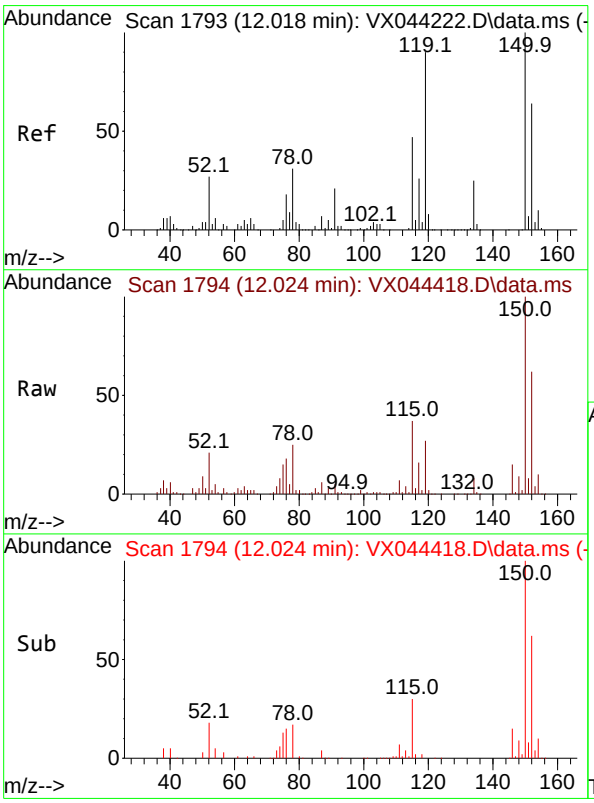
#71
Bromoform
Concen: 50.932 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:173 Resp: 46268

Ion	Ratio	Lower	Upper
173	100		
175	48.8	23.8	71.4
254	0.0	0.0	0.0

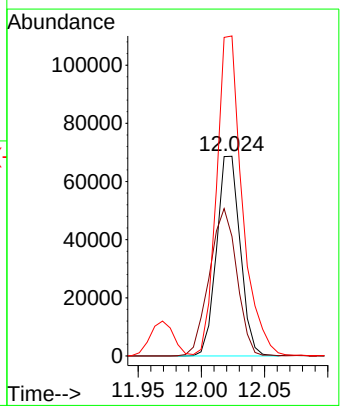


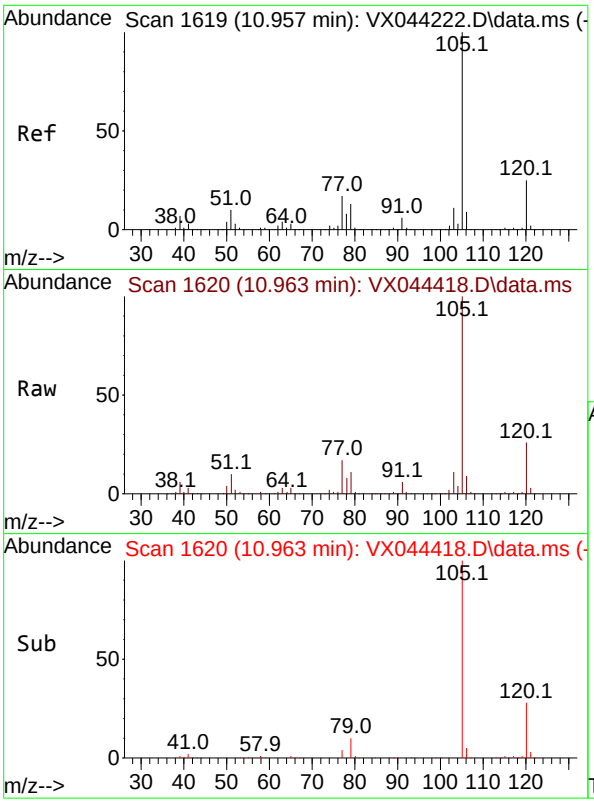


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:152 Resp: 88743

Ion	Ratio	Lower	Upper
152	100		
115	86.2	44.5	133.3
150	174.6	0.0	353.8



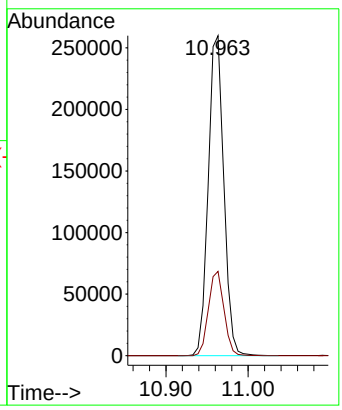


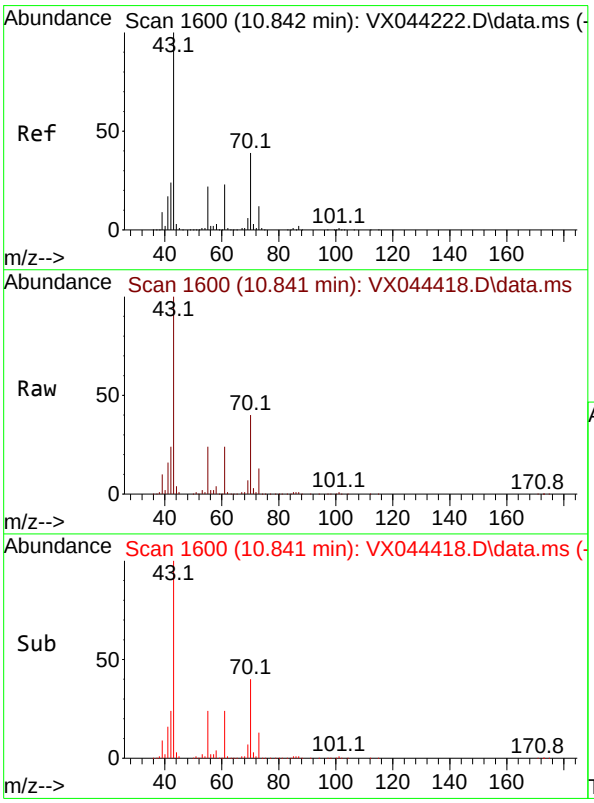
#73
Isopropylbenzene
Concen: 50.304 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:105 Resp: 341745

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.1	39.3

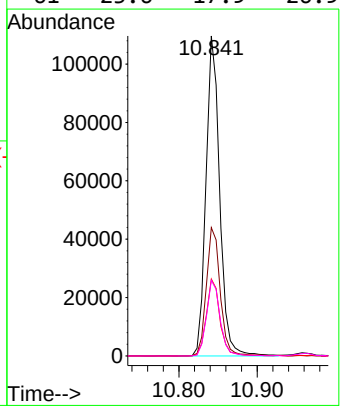


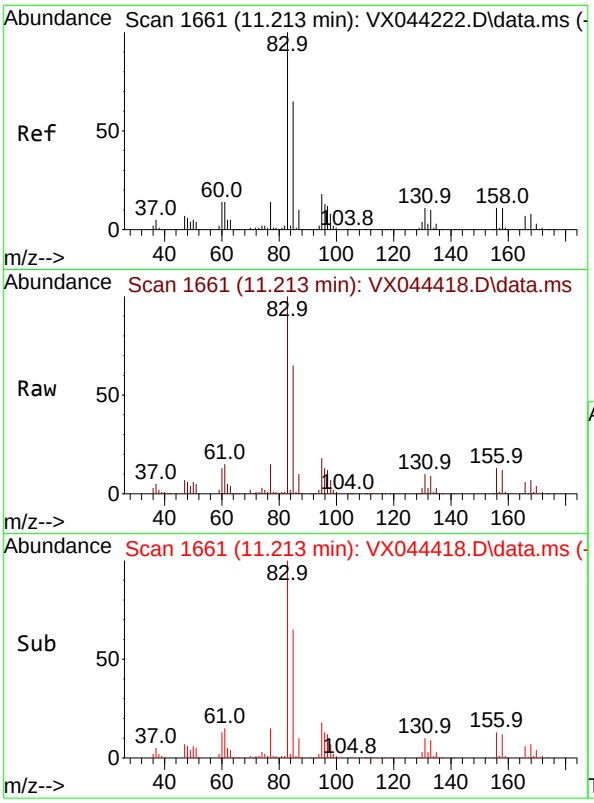


#74
N-amyl acetate
Concen: 42.337 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 43 Resp: 132925

Ion	Ratio	Lower	Upper
43	100		
70	40.7	31.9	47.9
55	24.0	17.9	26.9
61	23.6	17.9	26.9



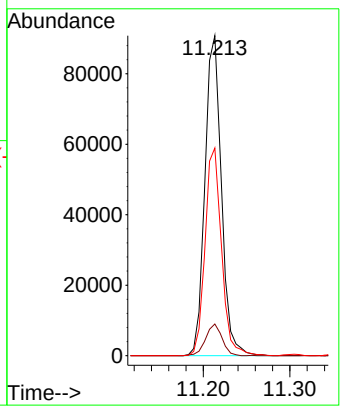


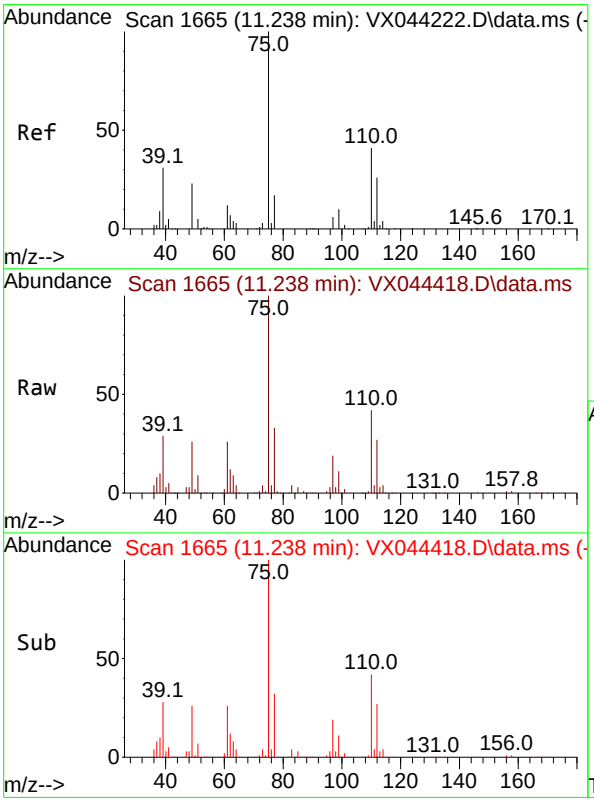
#75
1,1,2,2-Tetrachloroethane
Concen: 50.882 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 83 Resp: 120063

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	64.9	32.5	97.4

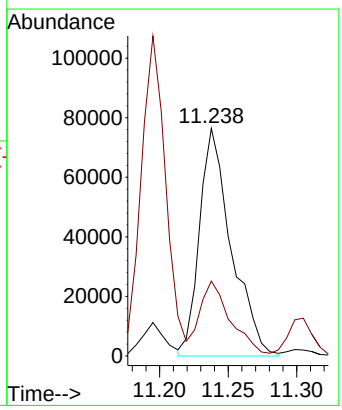


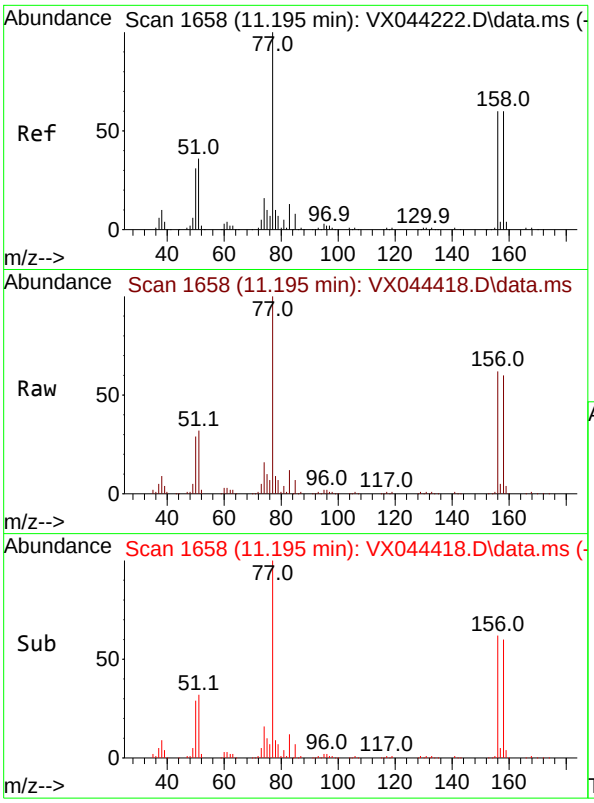


#76
1,2,3-Trichloropropane
Concen: 62.258 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 75 Resp: 123359

Ion	Ratio	Lower	Upper
75	100		
77	32.0	20.9	62.7



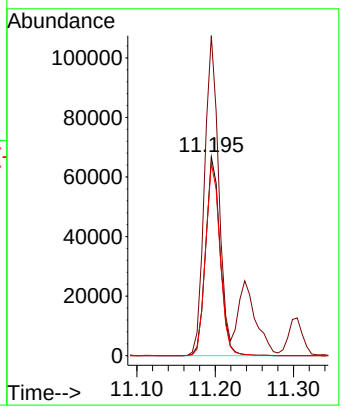


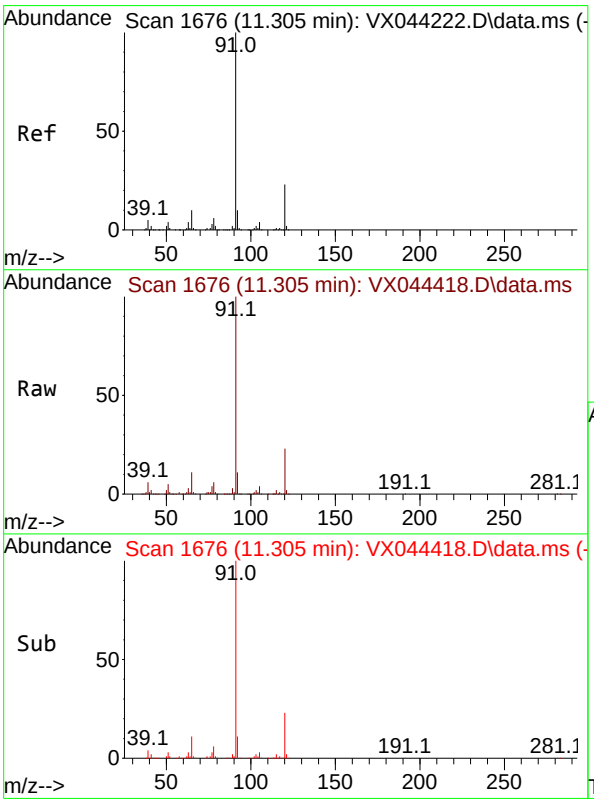
#77
Bromobenzene
Concen: 51.708 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:156 Resp: 85185

Ion	Ratio	Lower	Upper
156	100		
77	158.4	82.6	247.8
158	97.1	48.8	146.4

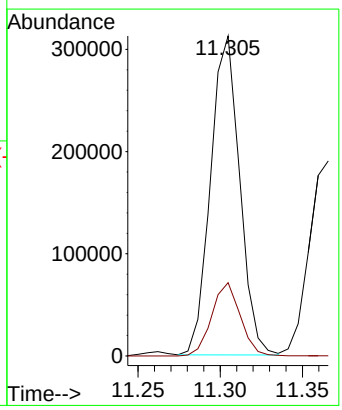


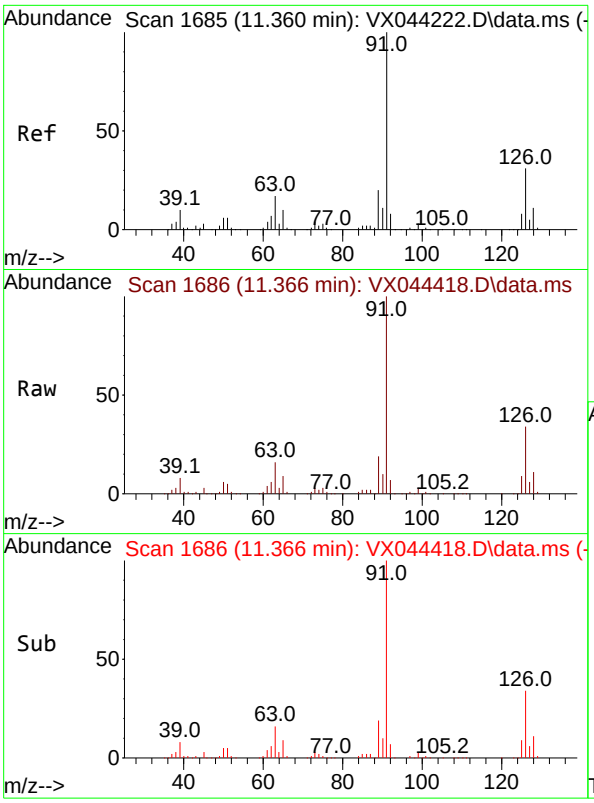


#78
n-propylbenzene
Concen: 51.244 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 91 Resp: 384780

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.0	33.0



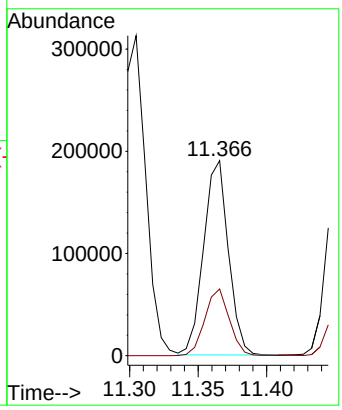


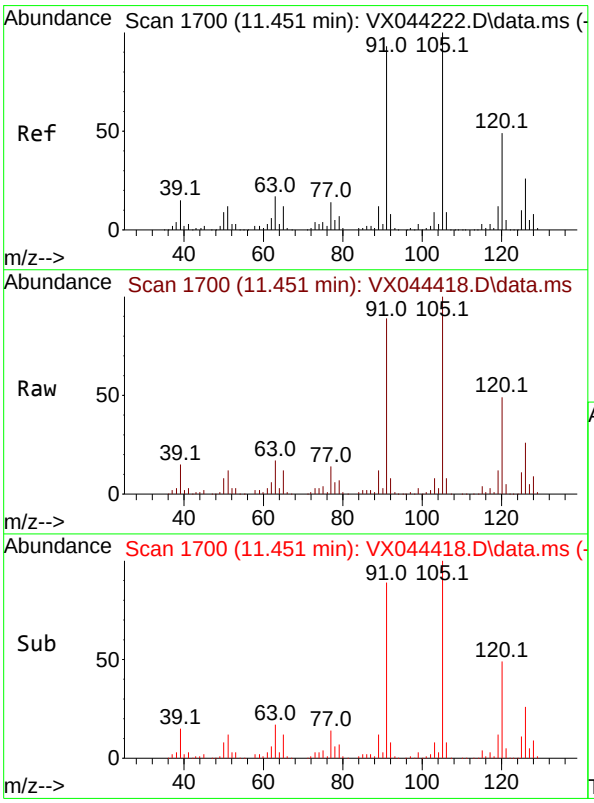
#79
2-Chlorotoluene
Concen: 49.475 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 91 Resp: 240255

Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.4	49.1

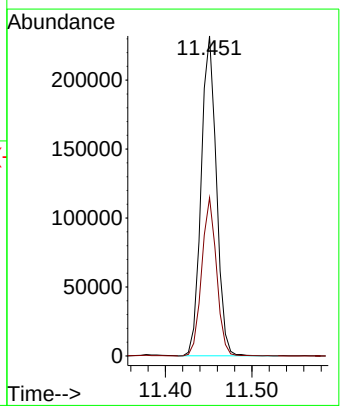


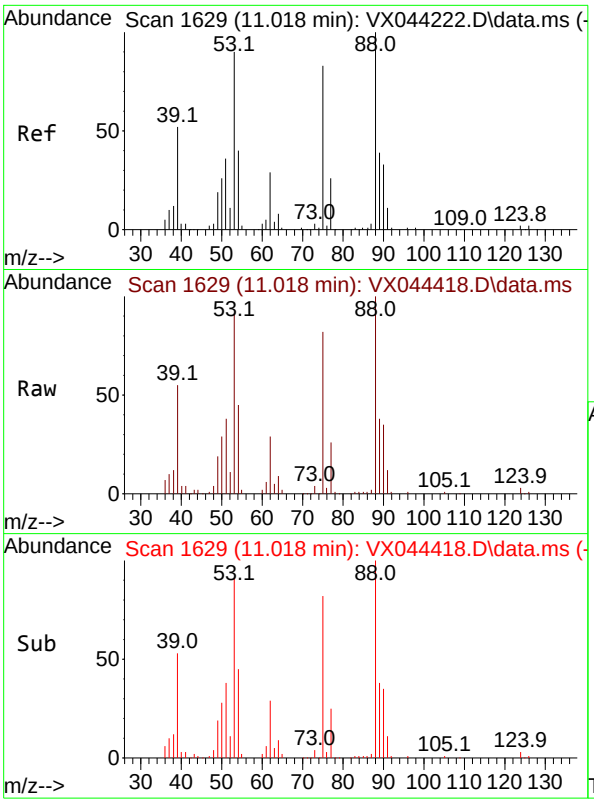


#80
1,3,5-Trimethylbenzene
Concen: 50.261 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:105 Resp: 283162

Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.8	71.4



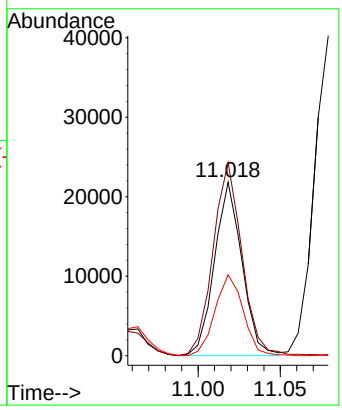


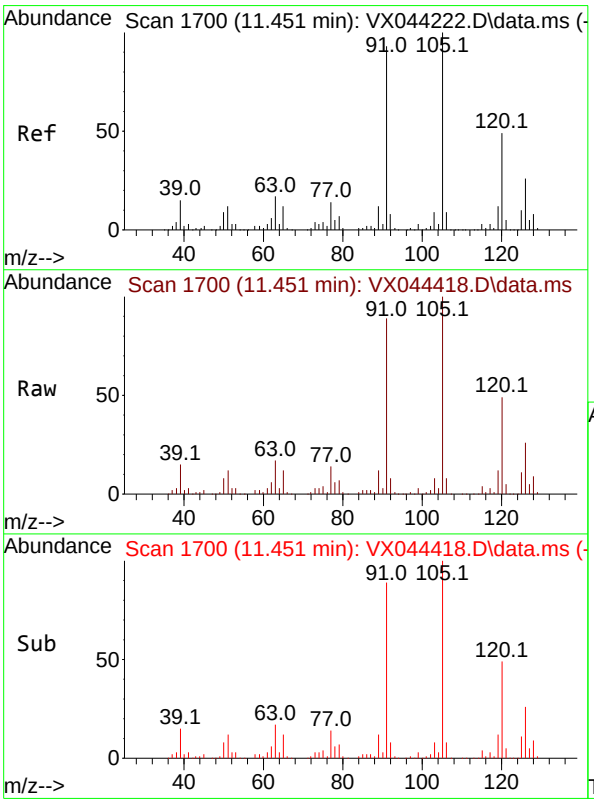
#81
trans-1,4-Dichloro-2-butene
Concen: 38.247 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 75 Resp: 25426

Ion	Ratio	Lower	Upper
75	100		
53	117.4	93.6	140.4
89	47.7	37.3	55.9

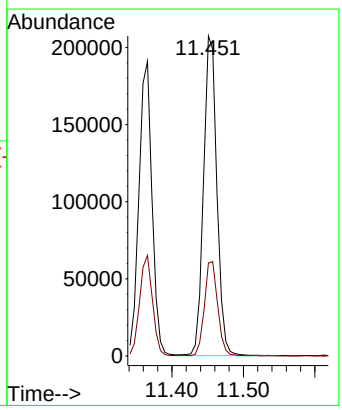


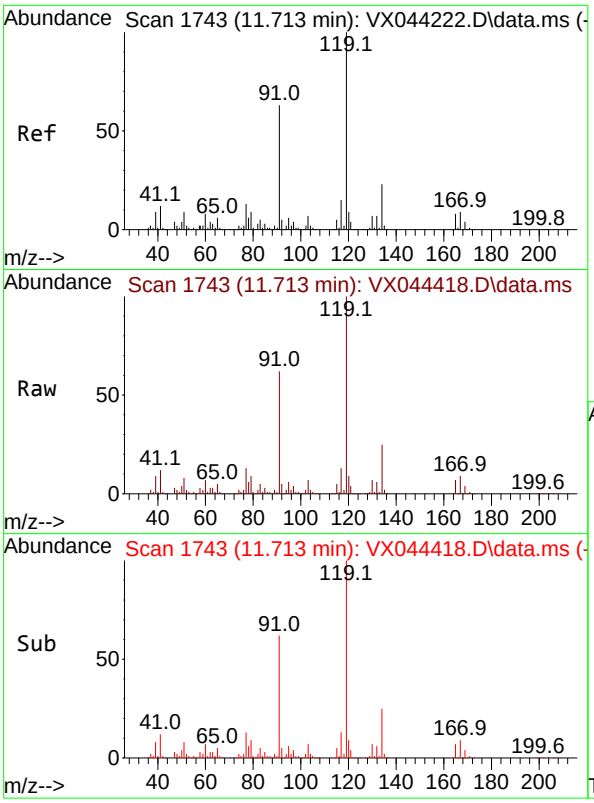


#82
4-Chlorotoluene
Concen: 50.004 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 91 Resp: 268894

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.5	43.5



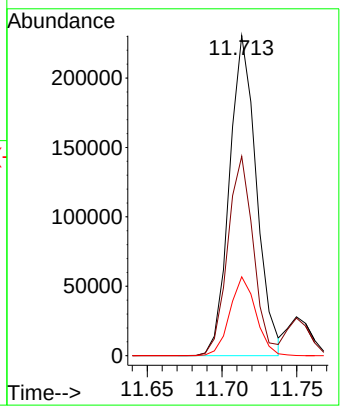


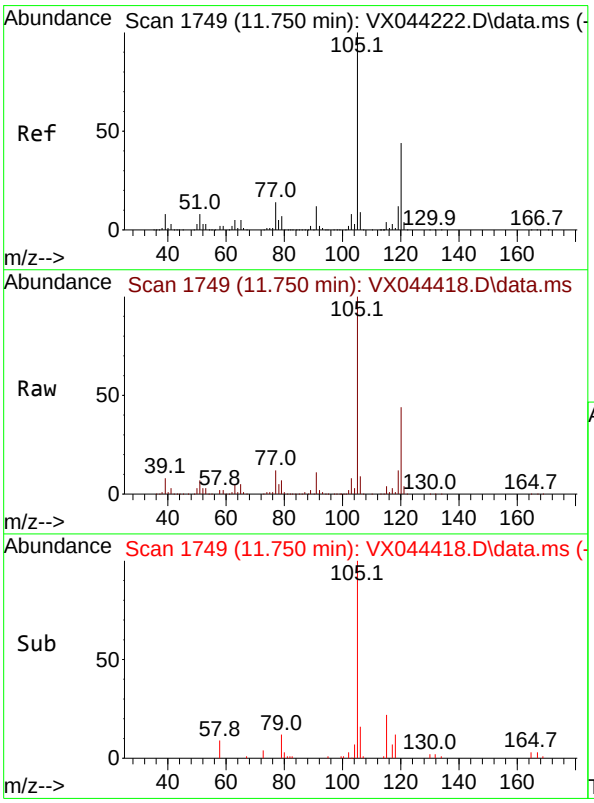
#83
tert-Butylbenzene
Concen: 51.857 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:119 Resp: 288730

Ion	Ratio	Lower	Upper
119	100		
91	59.7	30.9	92.5
134	23.8	11.5	34.4

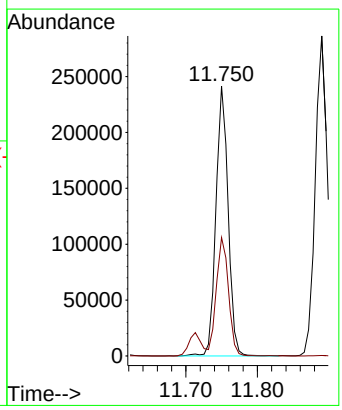


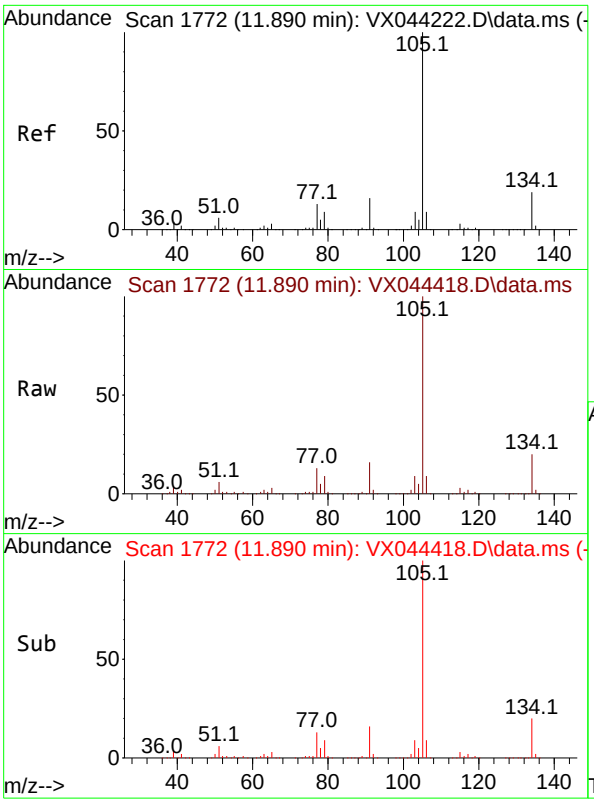


#84
1,2,4-Trimethylbenzene
Concen: 51.580 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:105 Resp: 285385

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.7	65.1



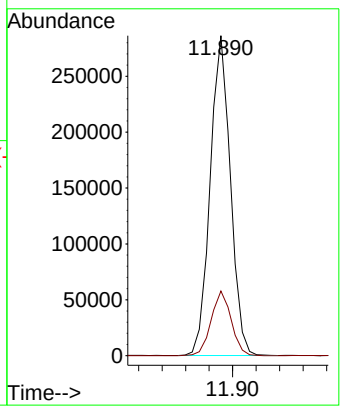


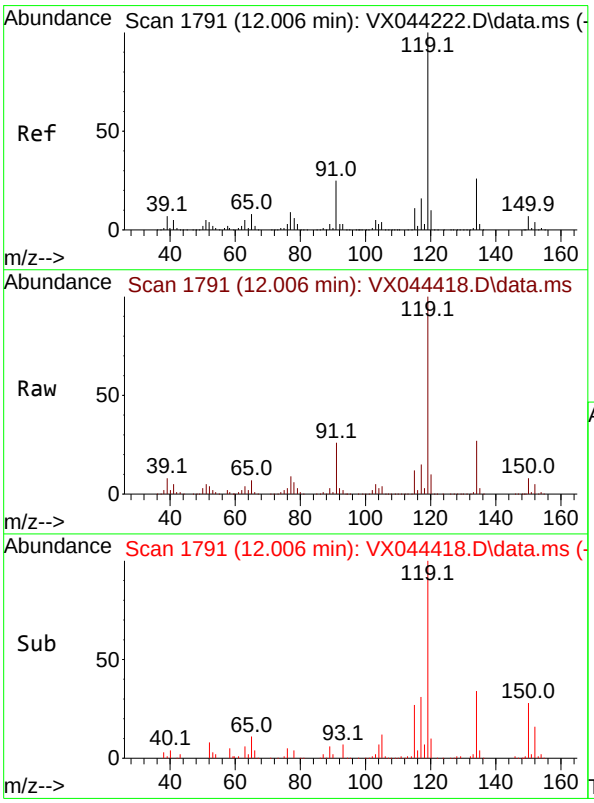
#85
sec-Butylbenzene
Concen: 50.713 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:105 Resp: 342783

Ion	Ratio	Lower	Upper
105	100		
134	20.0	9.8	29.4

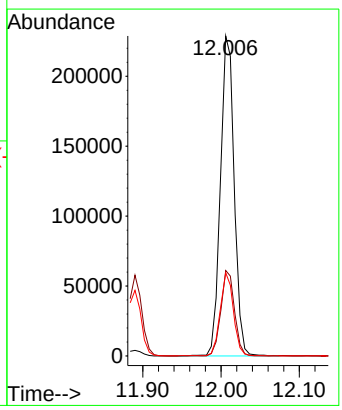


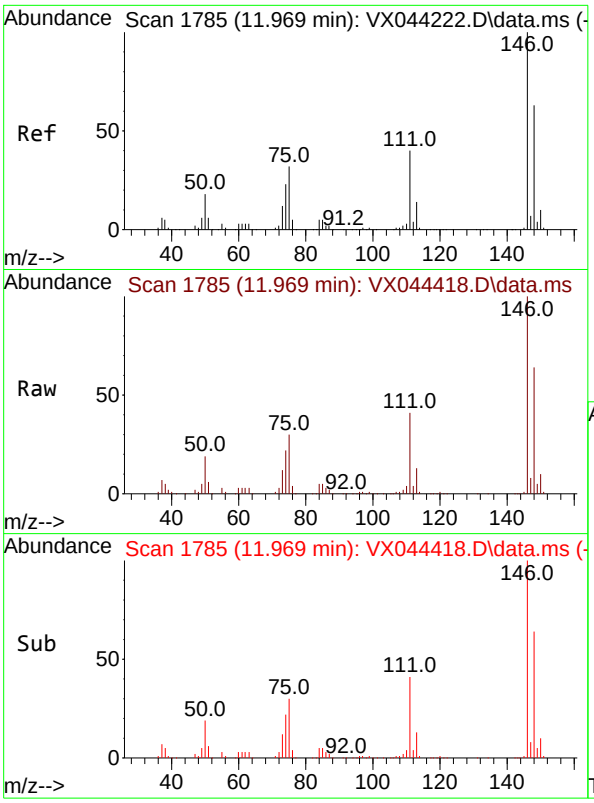


#86
p-Isopropyltoluene
Concen: 49.959 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:119 Resp: 281058

Ion	Ratio	Lower	Upper
119	100		
134	26.5	12.8	38.4
91	24.9	13.0	39.0



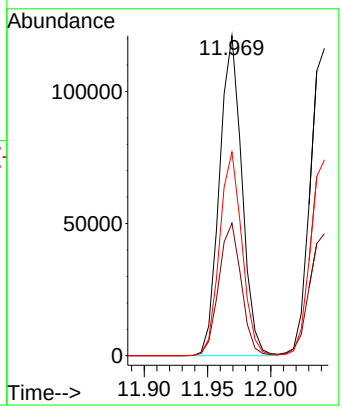


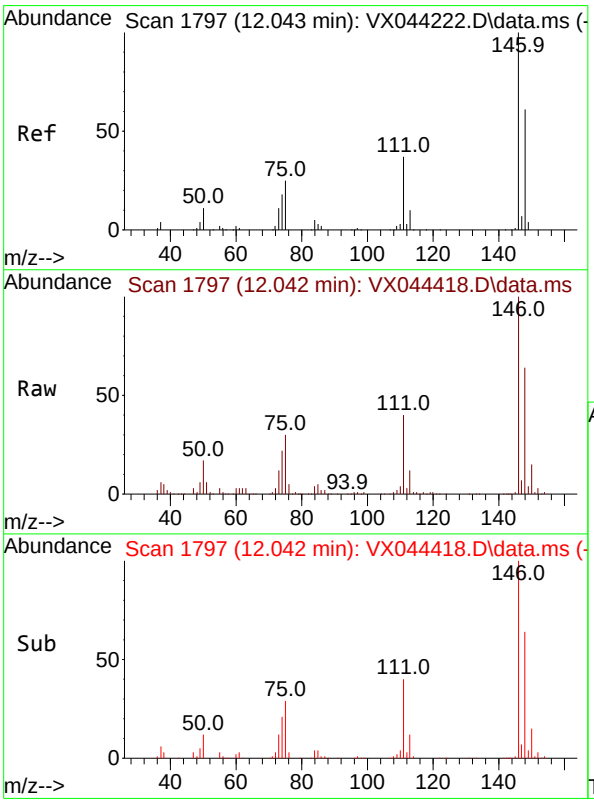
#87
1,3-Dichlorobenzene
Concen: 51.859 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:146 Resp: 149233

Ion	Ratio	Lower	Upper
146	100		
111	41.5	21.4	64.2
148	63.5	31.7	95.1

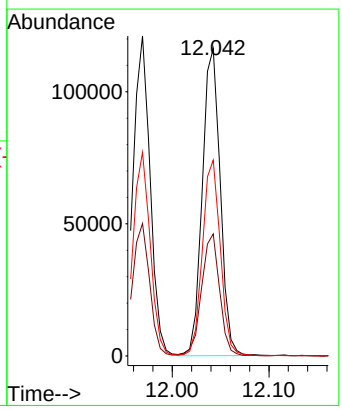


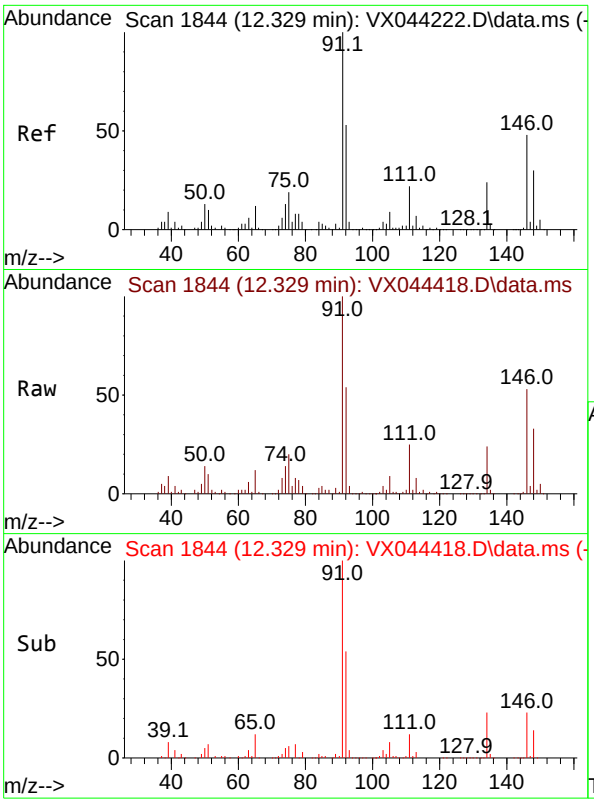


#88
1,4-Dichlorobenzene
Concen: 50.855 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:146 Resp: 150438

Ion	Ratio	Lower	Upper
146	100		
111	39.9	21.0	63.0
148	63.4	32.3	96.8



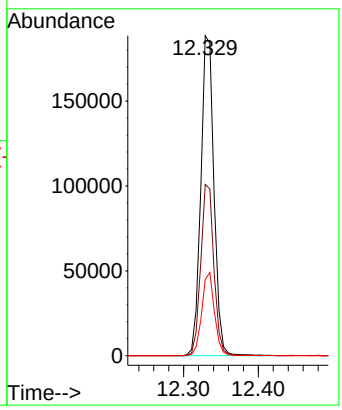


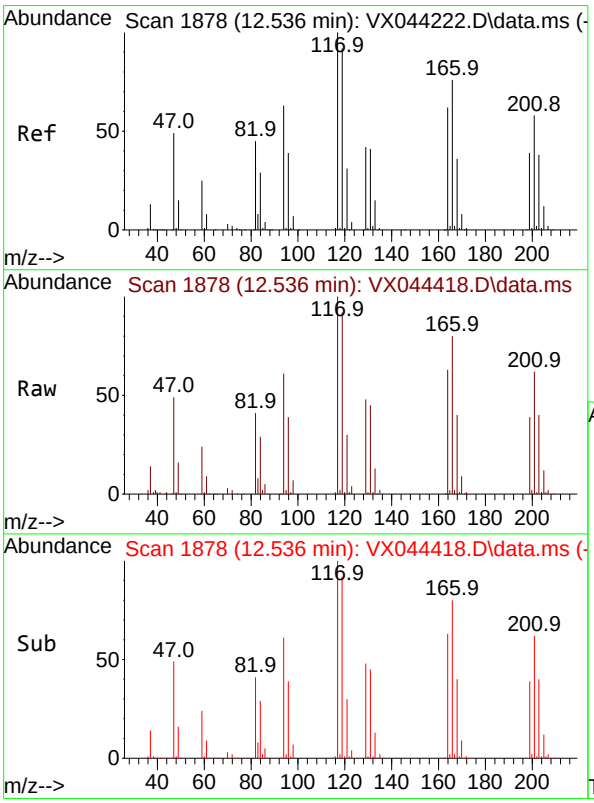
#89
n-Butylbenzene
Concen: 48.745 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion: 91 Resp: 230593

Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.6	79.7
134	25.1	12.6	37.8

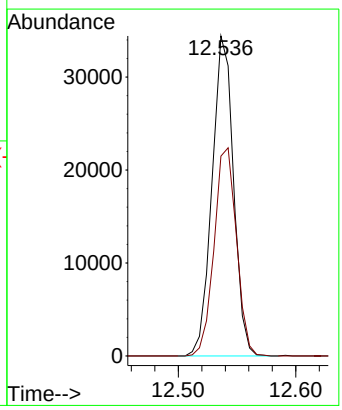


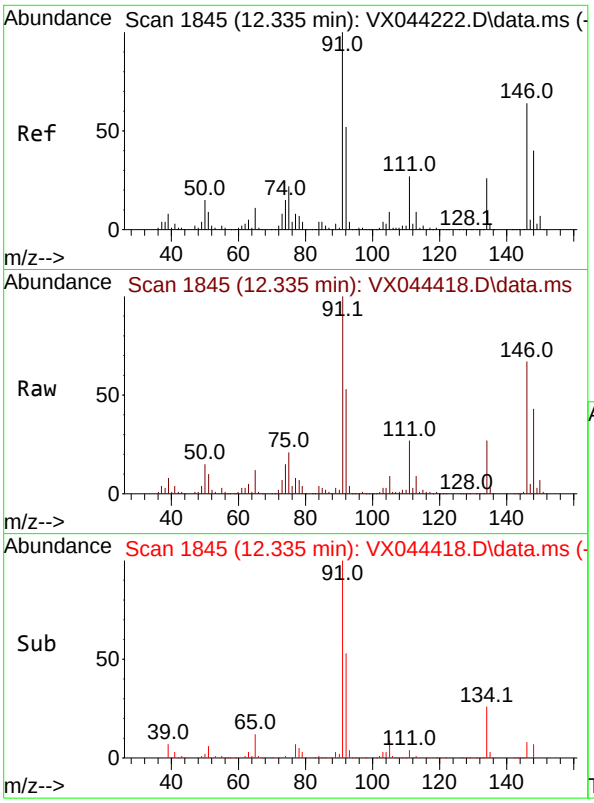


#90
Hexachloroethane
Concen: 53.222 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:117 Resp: 43707

Ion	Ratio	Lower	Upper
117	100		
201	67.8	31.4	94.2



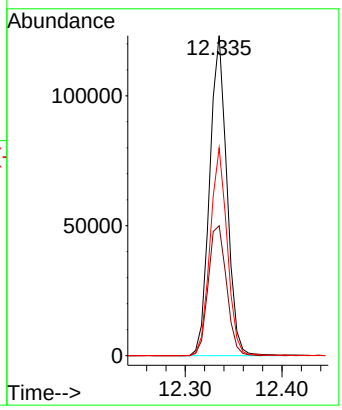


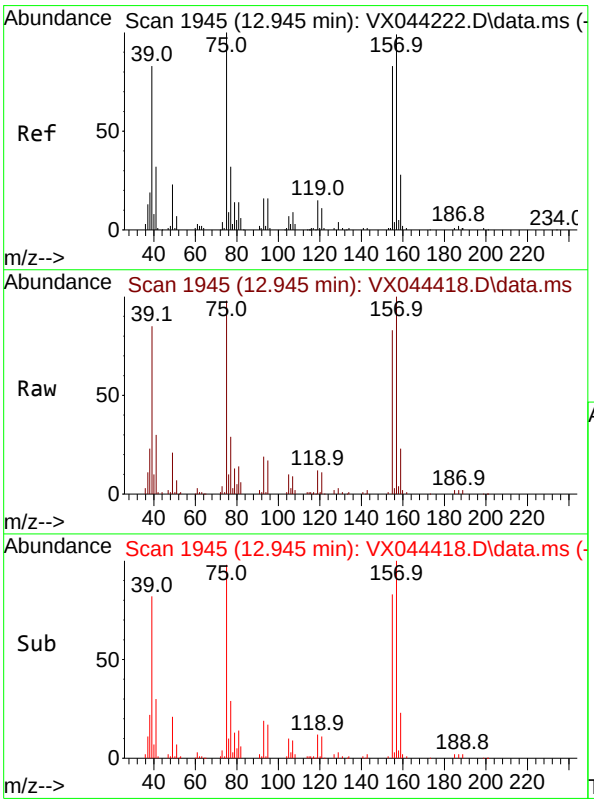
#91
1,2-Dichlorobenzene
Concen: 50.827 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:146 Resp: 151871

Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.4	64.3
148	64.5	31.6	95.0

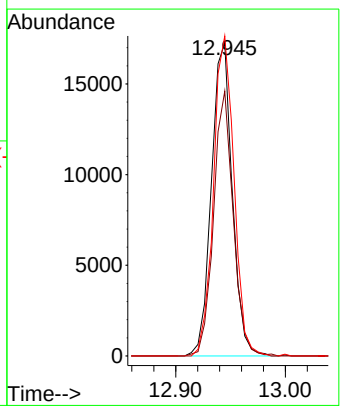


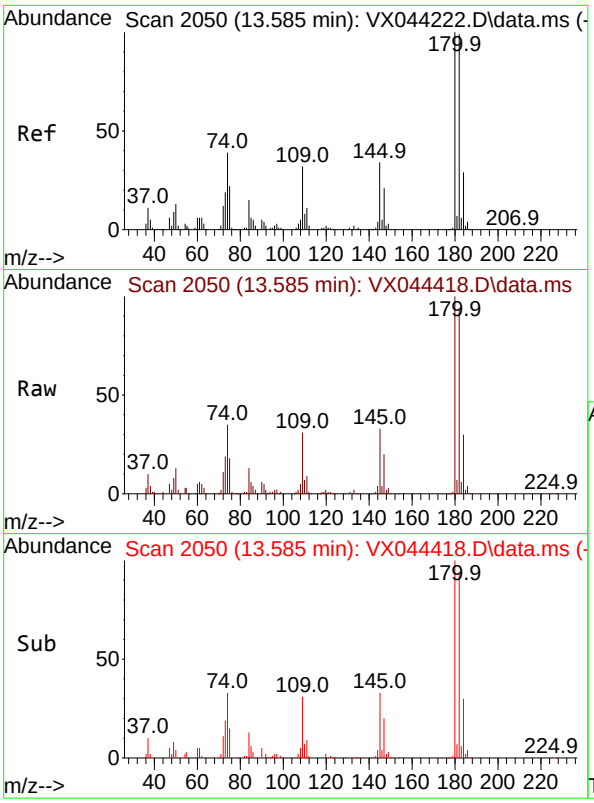


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.742 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion: 75 Resp: 22785

Ion	Ratio	Lower	Upper
75	100		
155	79.9	38.1	114.3
157	100.6	47.2	141.6



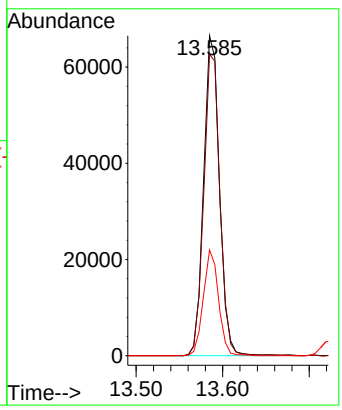


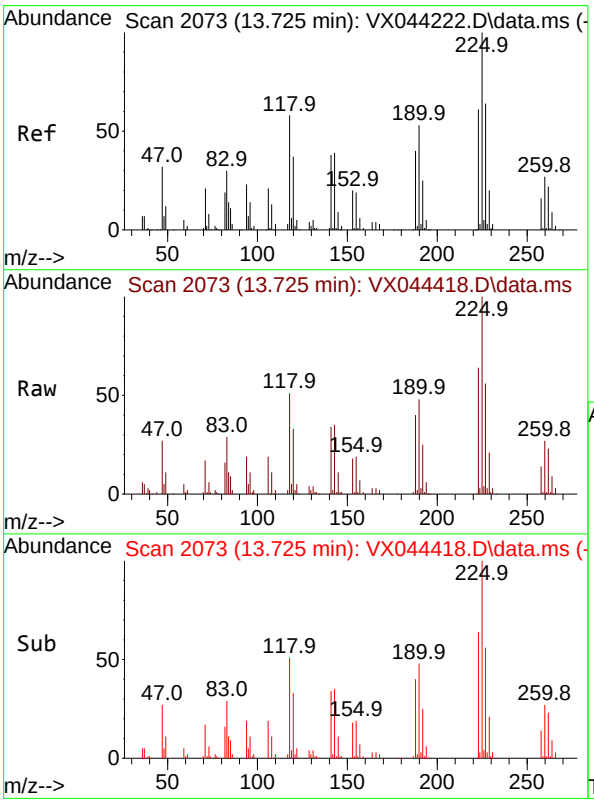
#93
1,2,4-Trichlorobenzene
Concen: 51.552 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:180 Resp: 84448

Ion	Ratio	Lower	Upper
180	100		
182	95.9	48.0	144.2
145	31.8	16.6	49.7

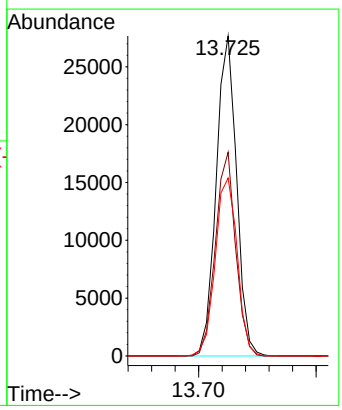


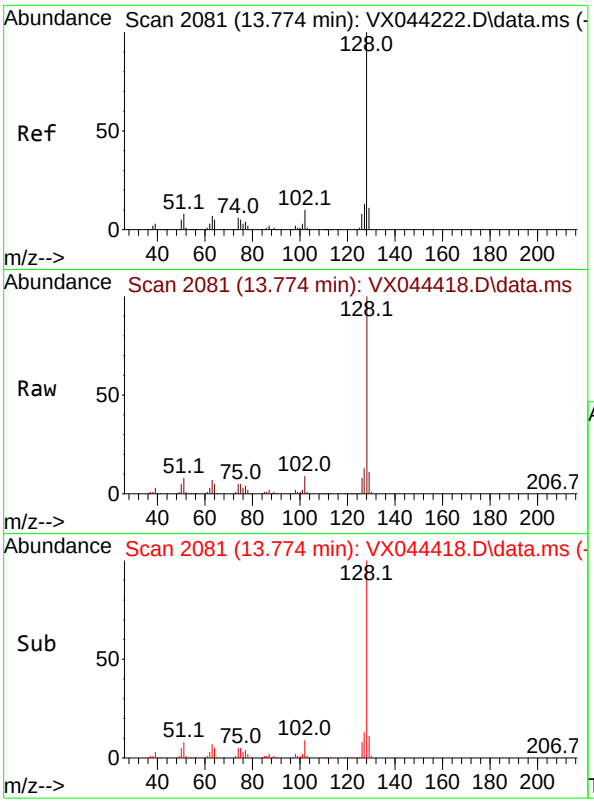


#94
Hexachlorobutadiene
Concen: 50.632 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:225 Resp: 33362

Ion	Ratio	Lower	Upper
225	100		
223	63.1	30.8	92.4
227	59.9	32.1	96.3



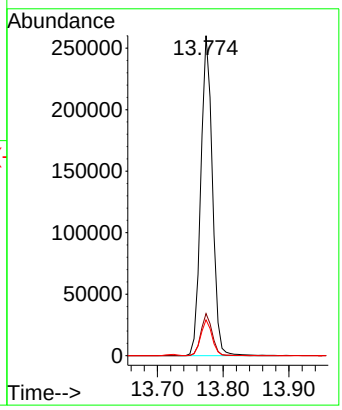


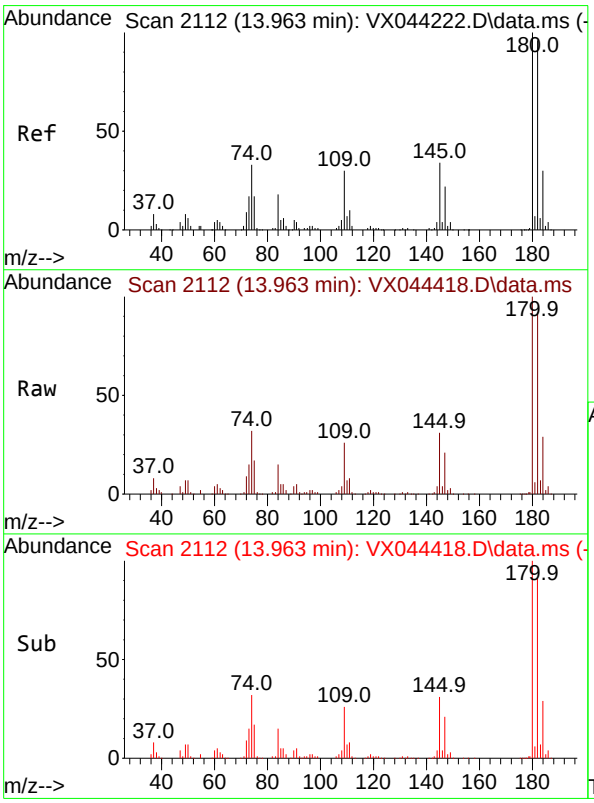
#95
Naphthalene
Concen: 49.962 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 a

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20241217MSD

Tgt Ion:128 Resp: 319471

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	11.0	9.0	13.4

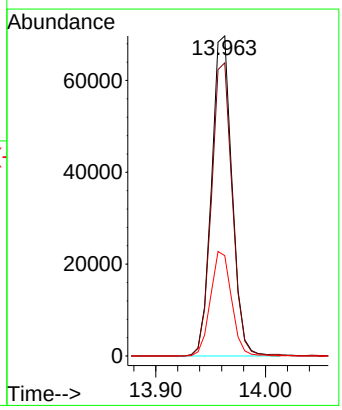




#96
1,2,3-Trichlorobenzene
Concen: 52.140 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044418.D
Acq: 19 Dec 2024 06:51 am

Tgt Ion:180 Resp: 90592

Ion	Ratio	Lower	Upper
180	100		
182	93.0	48.0	144.0
145	33.5	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044419.D
Acq On : 19 Dec 2024 07:14 am
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 19 07:44:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	122991	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	219241	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	189779	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	85459	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	104245	48.341	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 96.680%			
35) Dibromofluoromethane	5.385	113	79392	52.285	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.580%			
50) Toluene-d8	8.647	98	254301	49.641	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.280%			
62) 4-Bromofluorobenzene	11.079	95	86833	48.509	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.020%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	89297	46.955	ug/l	100
3) Chloromethane	1.294	50	94895	52.180	ug/l	99
4) Vinyl Chloride	1.374	62	96779	51.081	ug/l	98
5) Bromomethane	1.593	94	67589	50.285	ug/l	98
6) Chloroethane	1.666	64	69289	58.732	ug/l	98
7) Trichlorofluoromethane	1.867	101	148267	39.974	ug/l	95
8) Diethyl Ether	2.136	74	61722	48.751	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	64278	42.827	ug/l	98
10) Methyl Iodide	2.447	142	106921	54.052	ug/l	97
11) Tert butyl alcohol	2.983	59	80157	263.745	ug/l	97
12) 1,1-Dichloroethene	2.306	96	71141	51.604	ug/l	98
13) Acrolein	2.233	56	126270	287.020	ug/l	99
14) Allyl chloride	2.654	41	113429	49.398	ug/l	97
15) Acrylonitrile	3.068	53	226510	269.056	ug/l	100
16) Acetone	2.386	43	206787	235.213	ug/l	96
17) Carbon Disulfide	2.502	76	140202	53.502	ug/l	99
18) Methyl Acetate	2.703	43	117756	51.949	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	276100	51.323	ug/l	97
20) Methylene Chloride	2.782	84	87526	53.006	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	73529	50.186	ug/l	99
22) Diisopropyl ether	3.763	45	264037	51.065	ug/l	98
23) Vinyl Acetate	3.721	43	1167975	277.841	ug/l	98
24) 1,1-Dichloroethane	3.605	63	150830	52.331	ug/l	99
25) 2-Butanone	4.556	43	313889	251.145	ug/l	96
26) 2,2-Dichloropropane	4.471	77	63758	27.229	ug/l	93
27) cis-1,2-Dichloroethene	4.489	96	92907	49.930	ug/l	93
28) Bromochloromethane	4.897	49	71184	50.366	ug/l	100
29) Tetrahydrofuran	5.007	42	203906	254.175	ug/l	99
30) Chloroform	5.086	83	159252	49.178	ug/l	98
31) Cyclohexane	5.464	56	99678	42.827	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	130746	48.640	ug/l	98
36) 1,1-Dichloropropene	5.684	75	91756	46.748	ug/l	99
37) Ethyl Acetate	4.721	43	126767	52.248	ug/l	98
38) Carbon Tetrachloride	5.672	117	102311	48.416	ug/l	98
39) Methylcyclohexane	7.379	83	97486	41.546	ug/l	97
40) Benzene	6.031	78	313202	52.556	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044419.D
Acq On : 19 Dec 2024 07:14 am
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 19 07:44:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	68638	53.276	ug/l		98
42) 1,2-Dichloroethane	6.086	62	126056	51.349	ug/l		97
43) Isopropyl Acetate	6.342	43	203865	53.759	ug/l		99
44) Trichloroethene	7.123	130	75596	50.868	ug/l		99
45) 1,2-Dichloropropane	7.427	63	80013	52.553	ug/l		99
46) Dibromomethane	7.580	93	62821	53.185	ug/l		93
47) Bromodichloromethane	7.824	83	111053	54.439	ug/l		99
48) Methyl methacrylate	7.690	41	93853	50.984	ug/l		95
49) 1,4-Dioxane	7.665	88	28322	927.969	ug/l	#	85
51) 4-Methyl-2-Pentanone	8.574	43	637240	261.345	ug/l		99
52) Toluene	8.714	92	183930	49.148	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	100994	46.368	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	111565	50.228	ug/l		97
55) 1,1,2-Trichloroethane	9.153	97	79401	53.407	ug/l		99
56) Ethyl methacrylate	9.116	69	125407	53.432	ug/l		99
57) 1,3-Dichloropropane	9.305	76	135107	52.210	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	279300	235.938	ug/l		98
59) 2-Hexanone	9.433	43	464936	263.434	ug/l		98
60) Dibromochloromethane	9.519	129	79931	50.717	ug/l		99
61) 1,2-Dibromoethane	9.610	107	81759	54.026	ug/l		100
64) Tetrachloroethene	9.269	164	58220	46.221	ug/l		98
65) Chlorobenzene	10.079	112	200803	49.379	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	71094	54.398	ug/l		99
67) Ethyl Benzene	10.189	91	341788	48.644	ug/l		99
68) m/p-Xylenes	10.299	106	256314	99.414	ug/l		96
69) o-Xylene	10.640	106	128864	49.398	ug/l		96
70) Styrene	10.652	104	216799	51.842	ug/l		96
71) Bromoform	10.799	173	48213	52.457	ug/l	#	99
73) Isopropylbenzene	10.963	105	314366	48.052	ug/l		99
74) N-amyl acetate	10.841	43	166301	55.002	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	119667	52.663	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	123063	64.495	ug/l		85
77) Bromobenzene	11.195	156	81167	51.162	ug/l		97
78) n-propylbenzene	11.305	91	351524	48.614	ug/l		100
79) 2-Chlorotoluene	11.360	91	220699	47.194	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	263525	48.573	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	26316	40.690	ug/l		97
82) 4-Chlorotoluene	11.451	91	251878	48.639	ug/l		99
83) tert-Butylbenzene	11.713	119	262462	48.951	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	264960	49.728	ug/l		99
85) sec-Butylbenzene	11.890	105	308602	47.411	ug/l		98
86) p-Isopropyltoluene	12.006	119	257648	47.558	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	140315	50.634	ug/l		98
88) 1,4-Dichlorobenzene	12.042	146	140008	49.148	ug/l		97
89) n-Butylbenzene	12.329	91	214353	47.053	ug/l		99
90) Hexachloroethane	12.536	117	40378	51.057	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	145586	50.596	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	22216	50.364	ug/l		88
93) 1,2,4-Trichlorobenzene	13.585	180	83037	52.638	ug/l		95
94) Hexachlorobutadiene	13.725	225	29885	47.098	ug/l		98
95) Naphthalene	13.774	128	311462	50.581	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	85722	51.233	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044419.D
Acq On : 19 Dec 2024 07:14 am
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 19 07:44:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

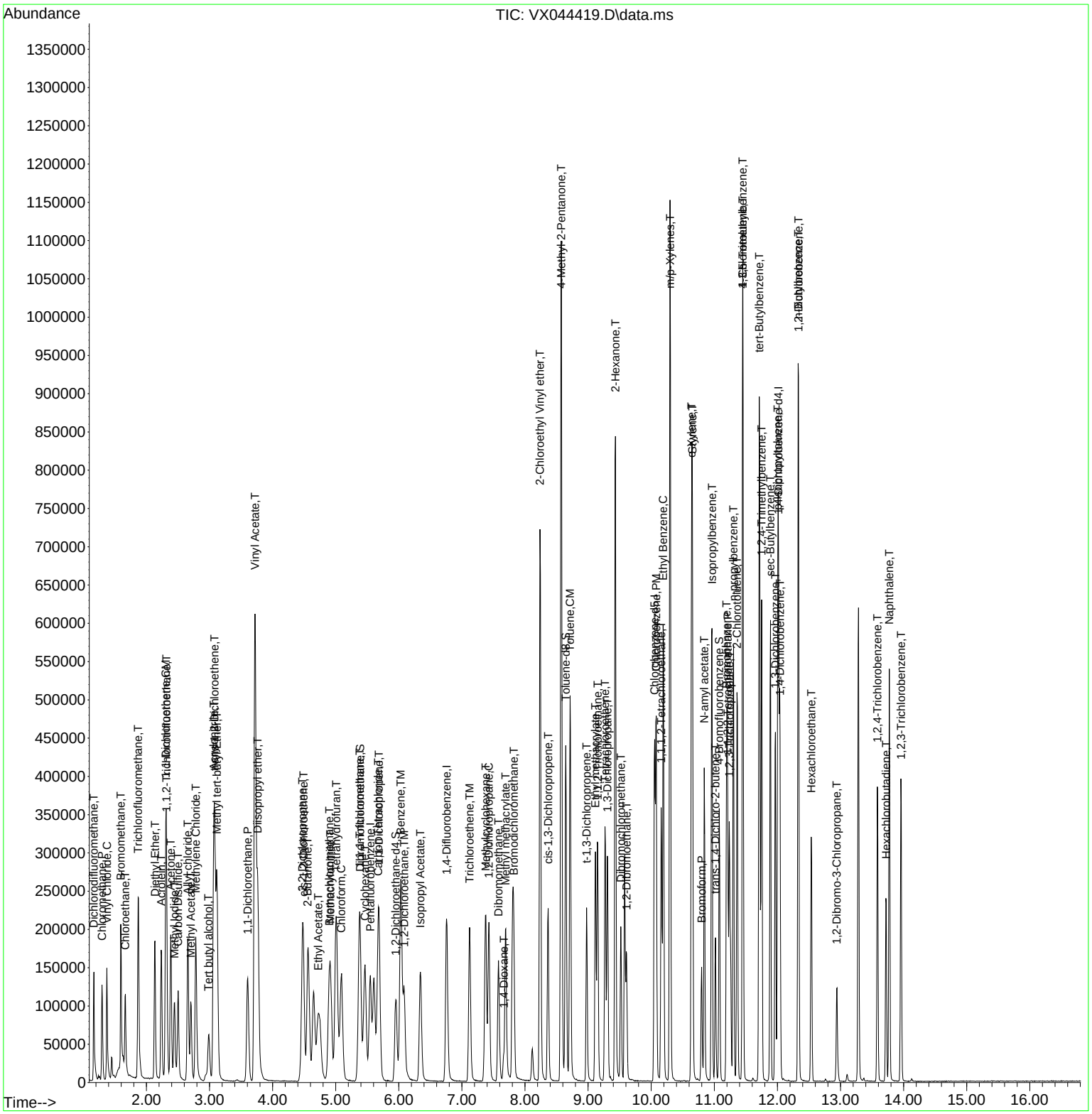
(#) = qualifier out of range (m) = manual integration (+) = signals summed

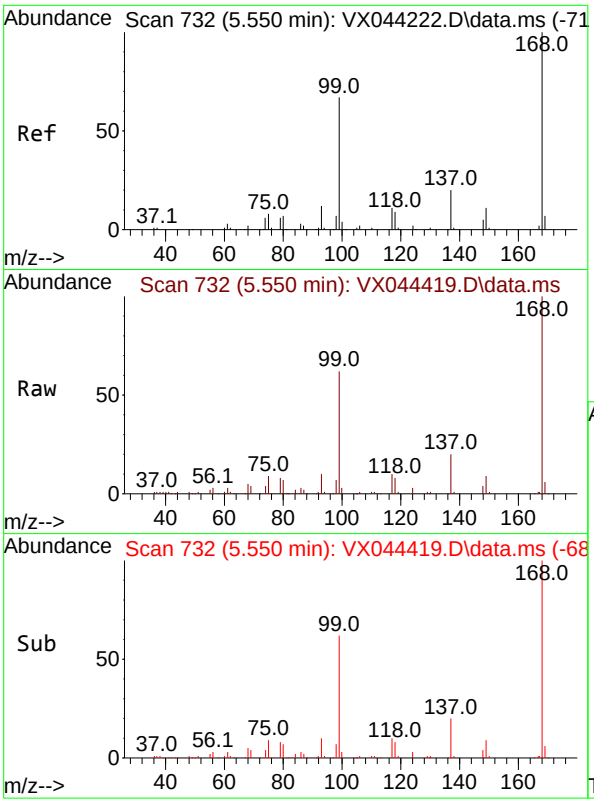
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044419.D
Acq On : 19 Dec 2024 07:14 am
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 19 07:44:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



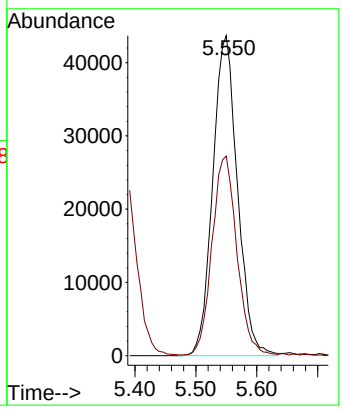


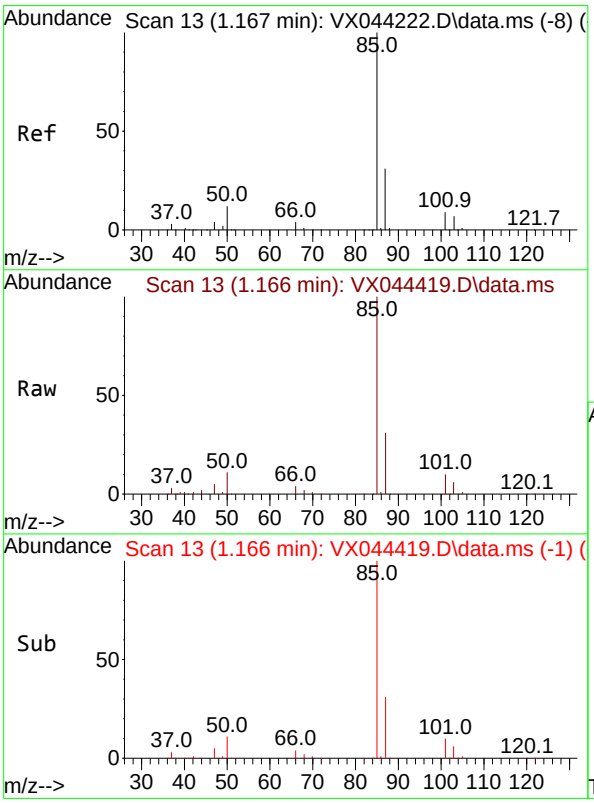
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 122991

Ion	Ratio	Lower	Upper
168	100		
99	62.2	53.4	80.0

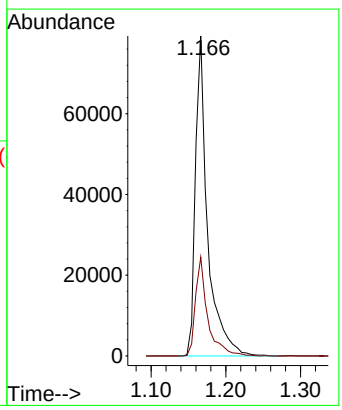


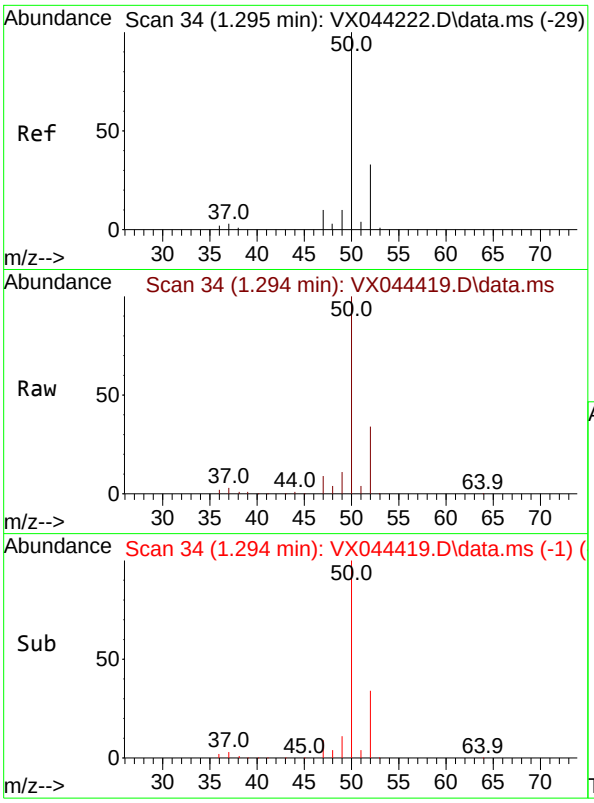


#2
Dichlorodifluoromethane
Concen: 46.955 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 85 Resp: 89297

Ion	Ratio	Lower	Upper
85	100		
87	30.9	15.4	46.4



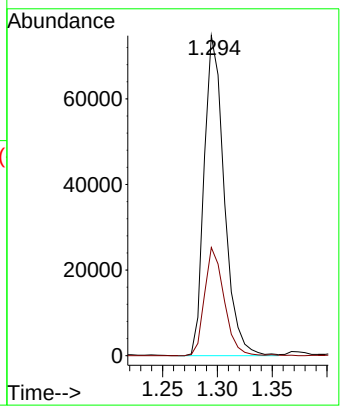


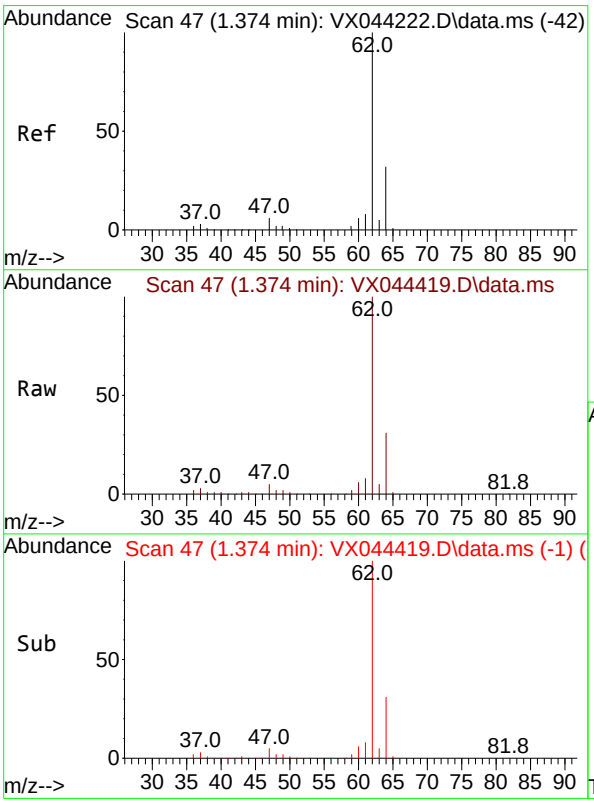
#3
Chloromethane
Concen: 52.180 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 94895

Ion	Ratio	Lower	Upper
50	100		
52	33.8	26.5	39.7

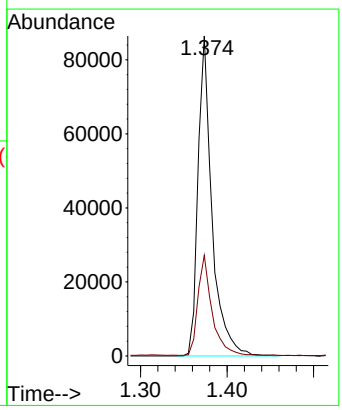


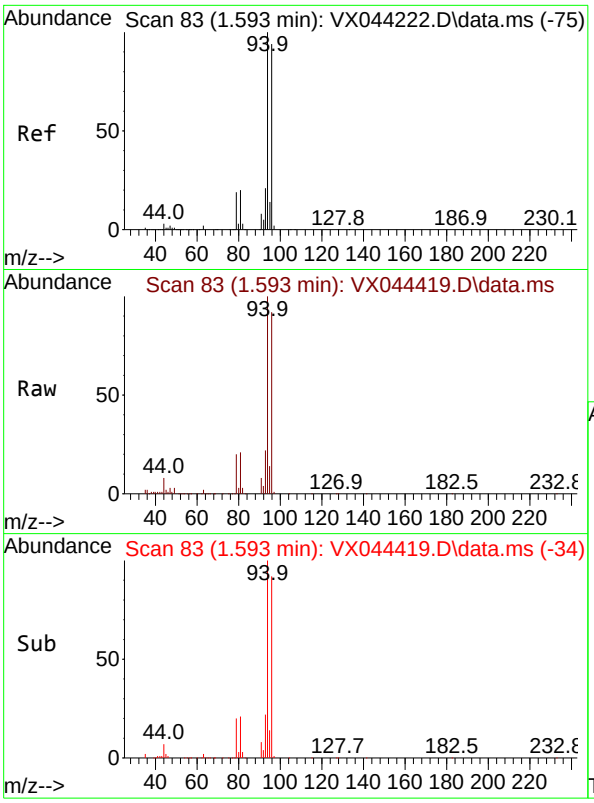


#4
Vinyl Chloride
Concen: 51.081 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 62 Resp: 96779

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.7	38.5



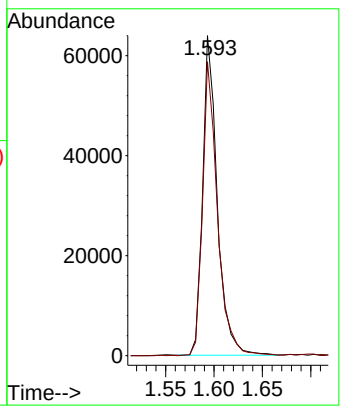


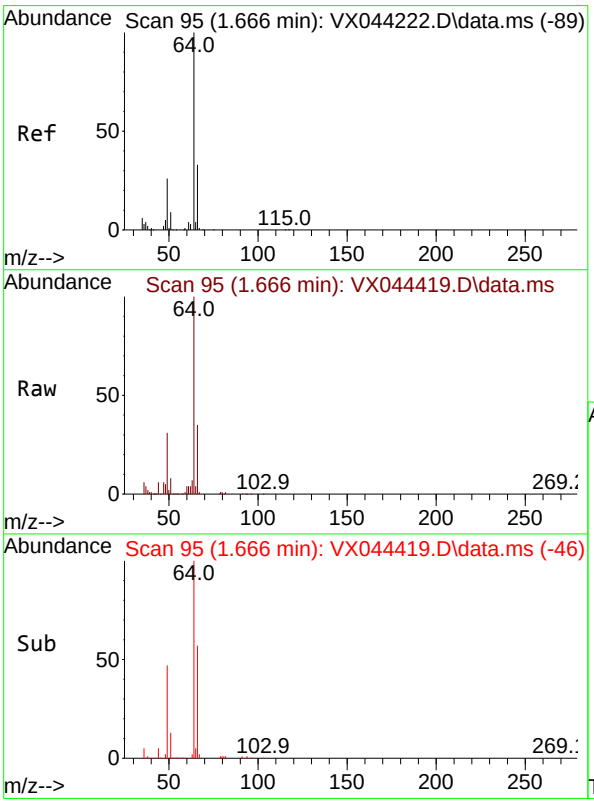
#5
Bromomethane
Concen: 50.285 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 67589

Ion	Ratio	Lower	Upper
94	100		
96	92.0	74.9	112.3

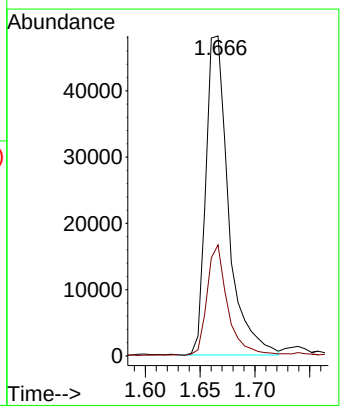


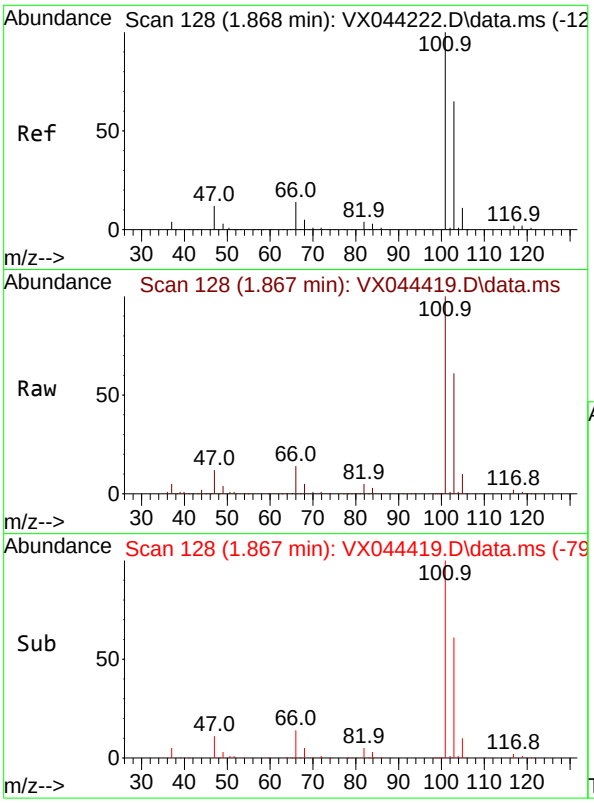


#6
Chloroethane
Concen: 58.732 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 64 Resp: 69289

Ion	Ratio	Lower	Upper
64	100		
66	34.4	26.6	39.8



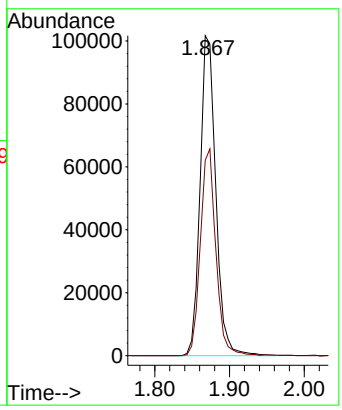


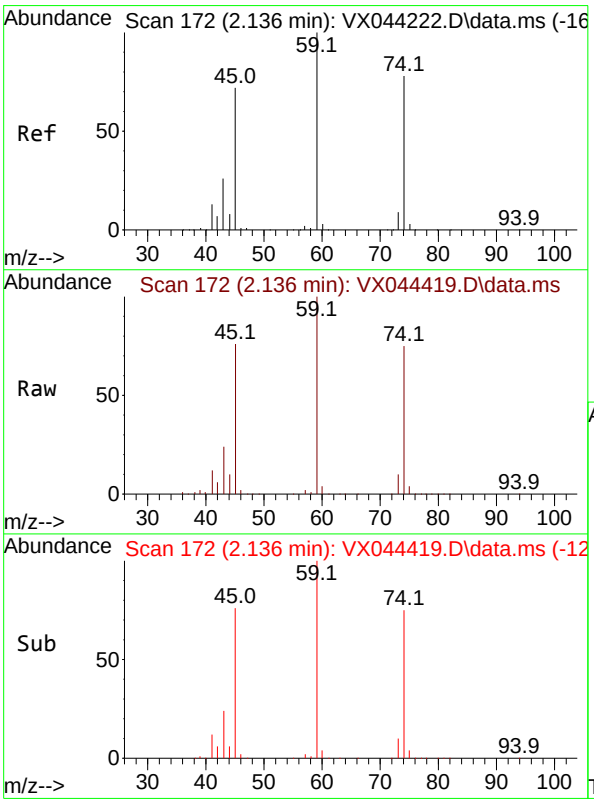
#7
Trichlorofluoromethane
Concen: 39.974 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 148267

Ion	Ratio	Lower	Upper
101	100		
103	61.0	51.8	77.8

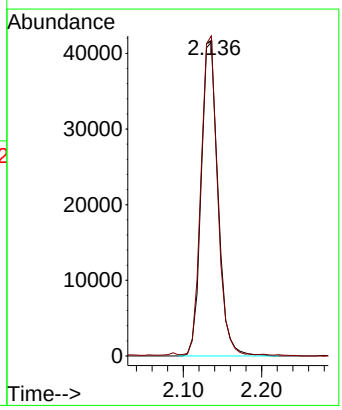


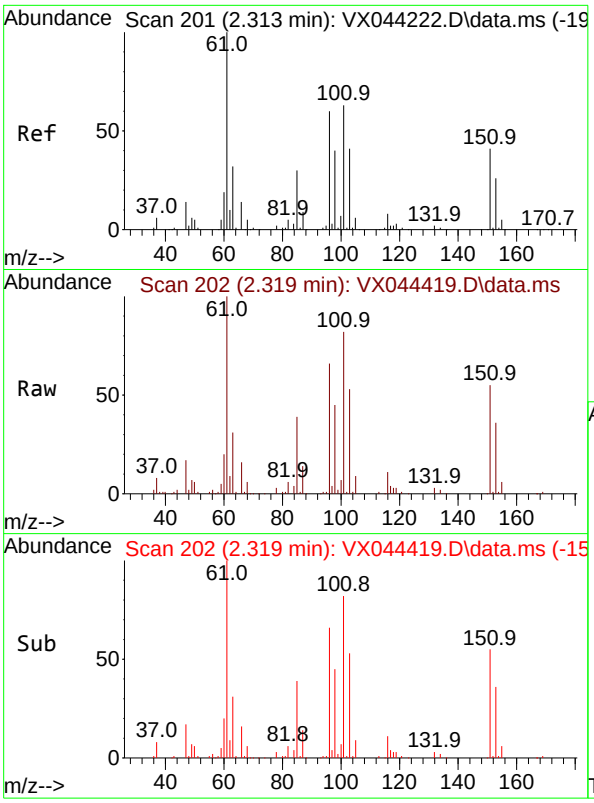


#8
Diethyl Ether
Concen: 48.751 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 74 Resp: 61722

Ion	Ratio	Lower	Upper
74	100		
45	101.6	48.4	145.0



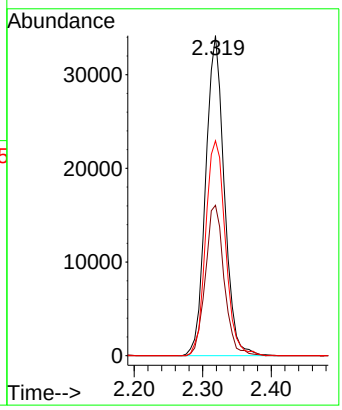


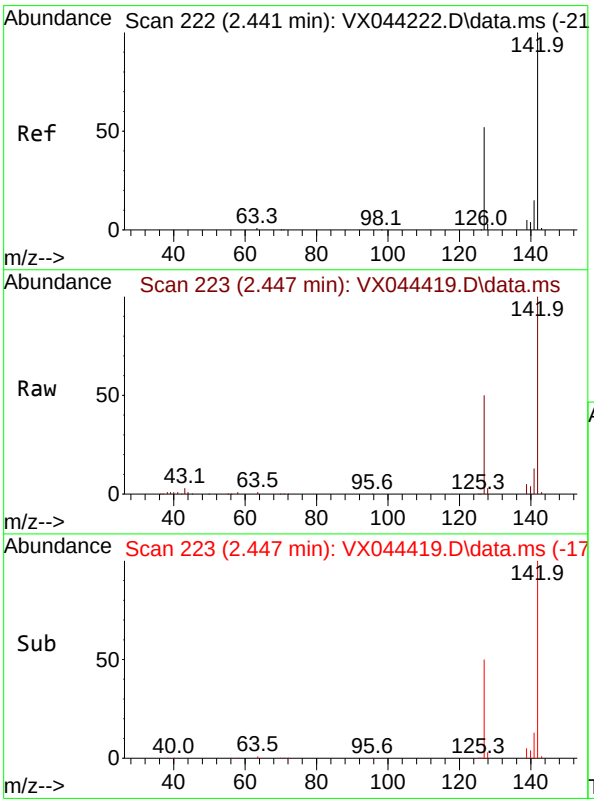
#9
1,1,2-Trichlorotrifluoroethane
Concen: 42.827 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 64278

Ion	Ratio	Lower	Upper
101	100		
85	47.5	38.5	57.7
151	71.3	55.8	83.6

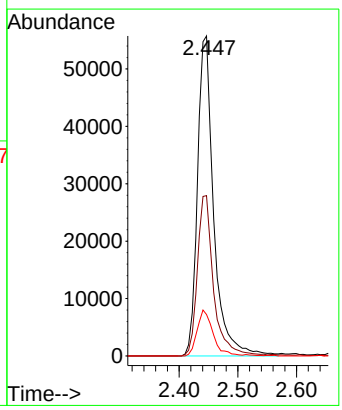


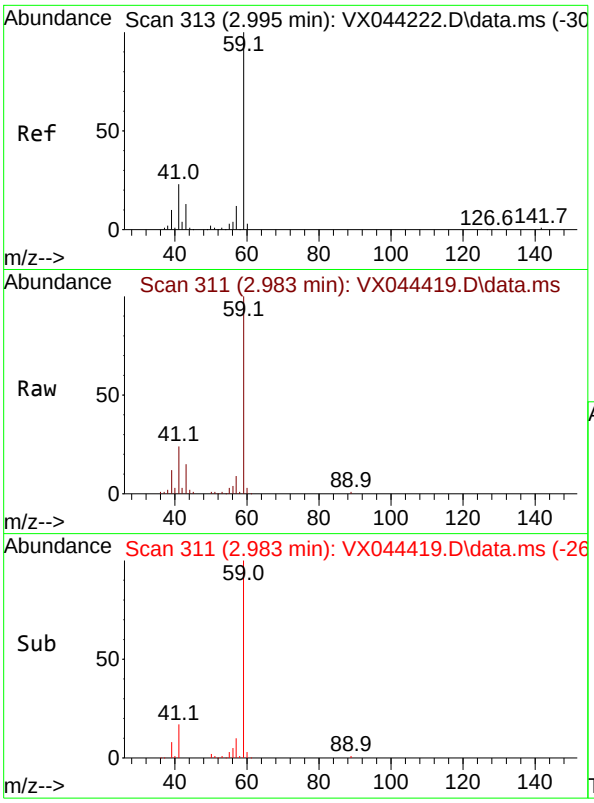


#10
Methyl Iodide
Concen: 54.052 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:142 Resp: 106921

Ion	Ratio	Lower	Upper
142	100		
127	49.9	41.8	62.8
141	14.0	11.5	17.3



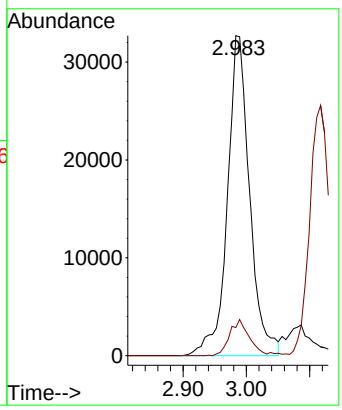


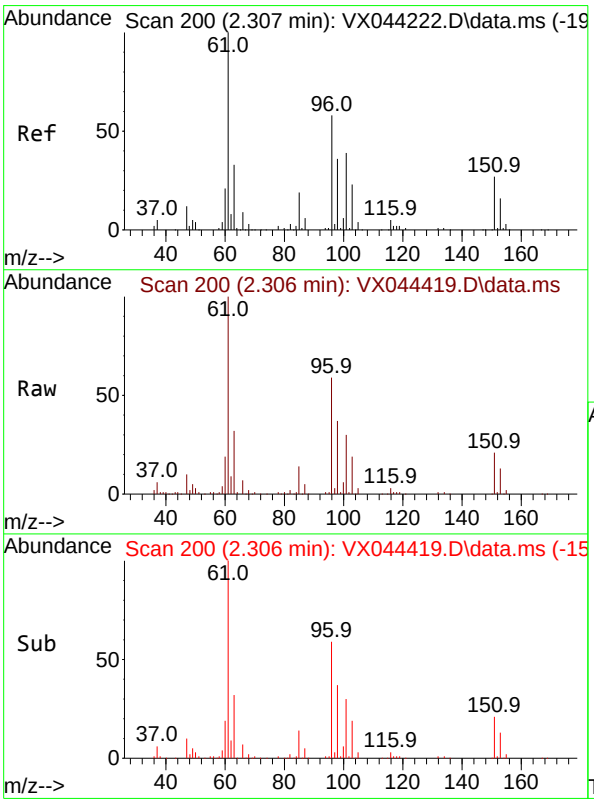
#11
Tert butyl alcohol
Concen: 263.745 ug/l
RT: 2.983 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 80157

Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.8	13.2

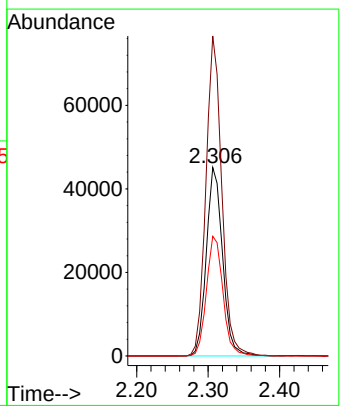


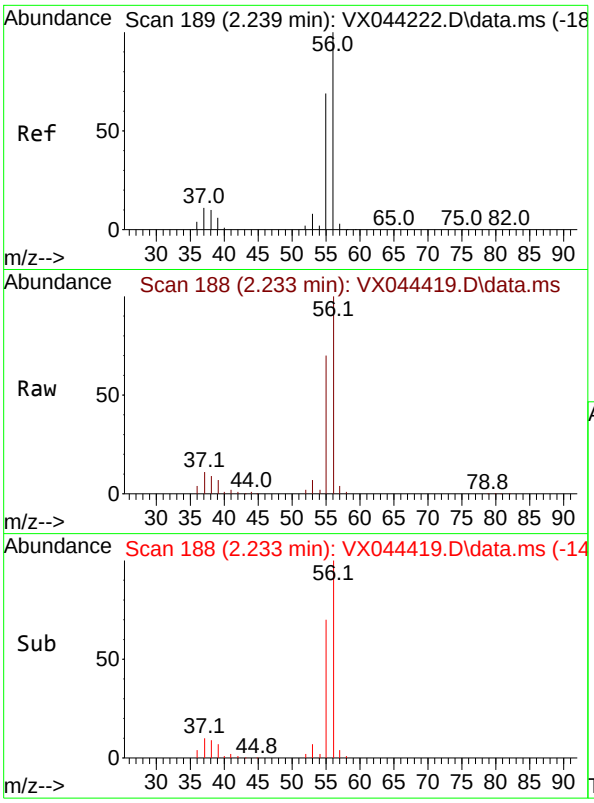


#12
1,1-Dichloroethene
Concen: 51.604 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 96 Resp: 71141

Ion	Ratio	Lower	Upper
96	100		
61	169.8	138.0	207.0
98	63.5	50.0	75.0



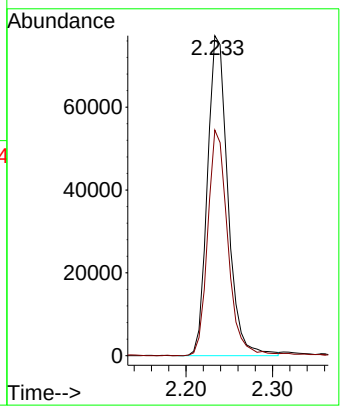


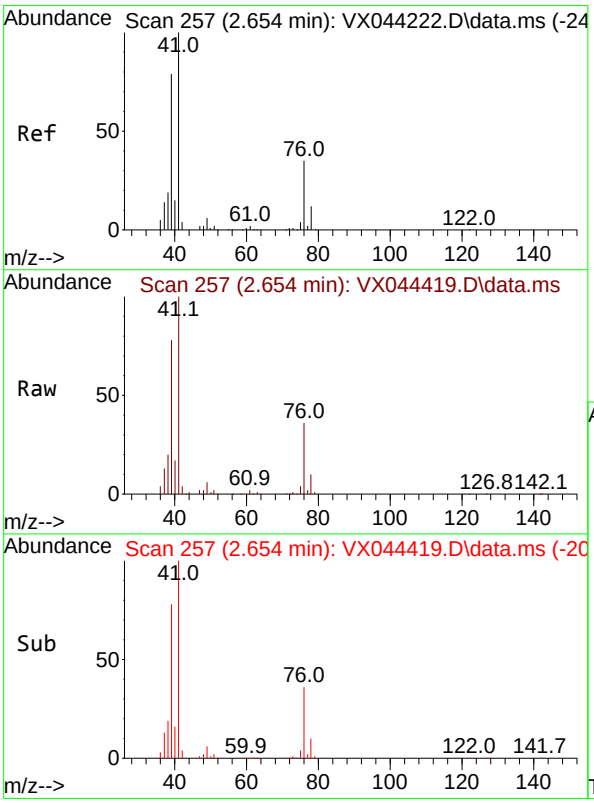
#13
Acrolein
Concen: 287.020 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 126270

Ion	Ratio	Lower	Upper
56	100		
55	70.2	56.6	84.8

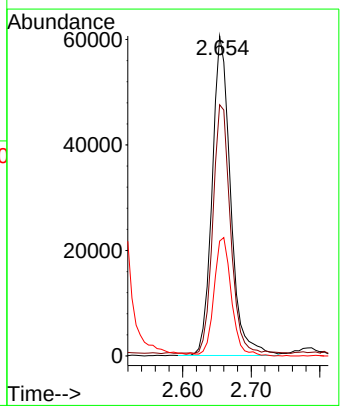


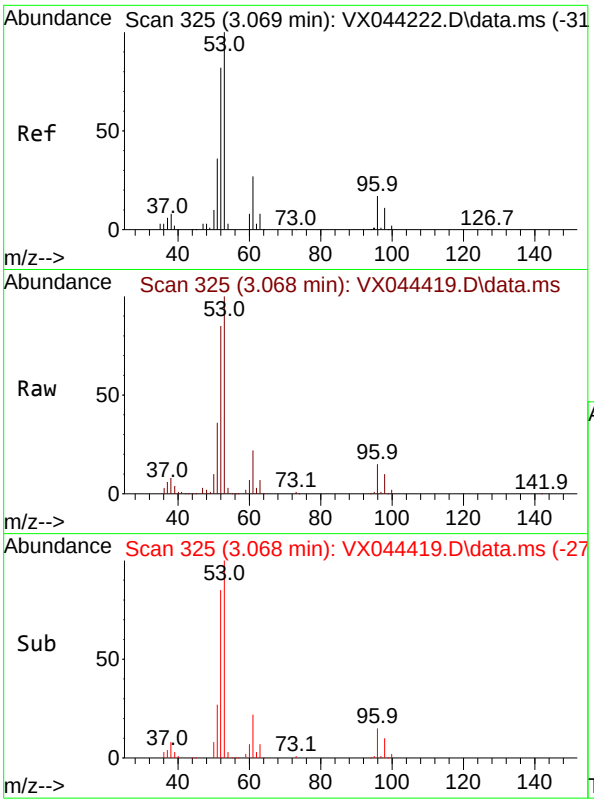


#14
Allyl chloride
Concen: 49.398 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 41 Resp: 113429

Ion	Ratio	Lower	Upper
41	100		
39	74.1	61.9	92.9
76	34.7	27.4	41.2



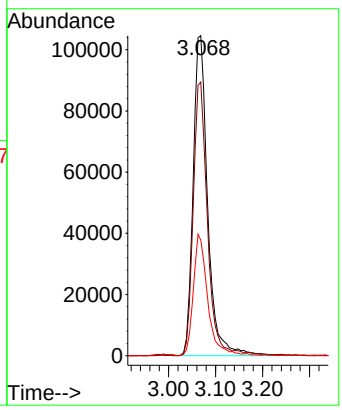


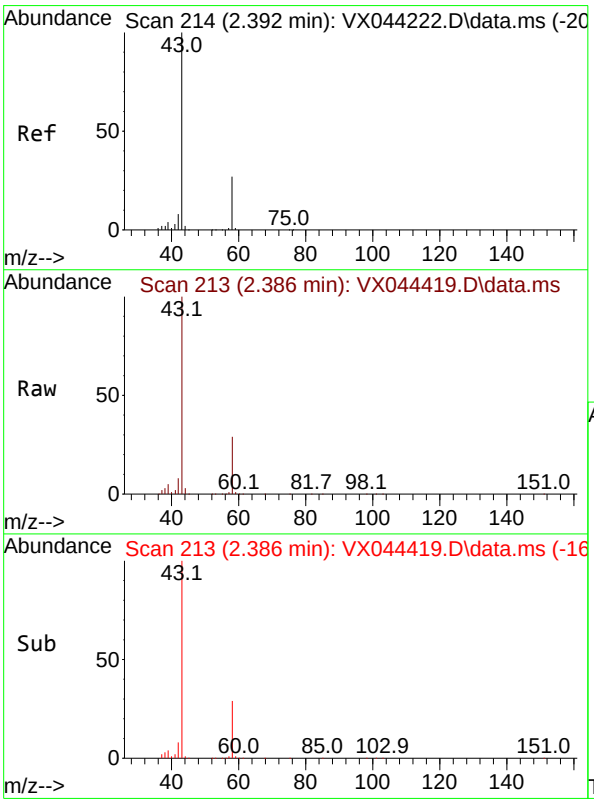
#15
Acrylonitrile
Concen: 269.056 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 226510

Ion	Ratio	Lower	Upper
53	100		
52	83.9	67.4	101.0
51	37.5	30.3	45.5

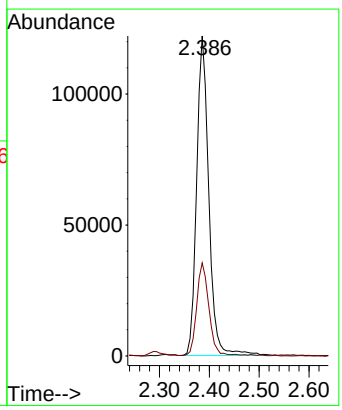


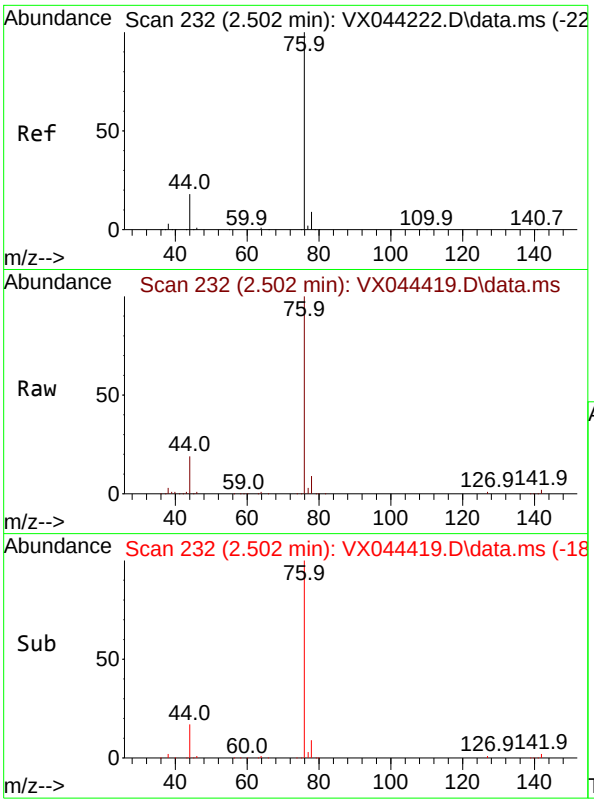


#16
Acetone
Concen: 235.213 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 43 Resp: 206787

Ion	Ratio	Lower	Upper
43	100		
58	29.0	21.6	32.4



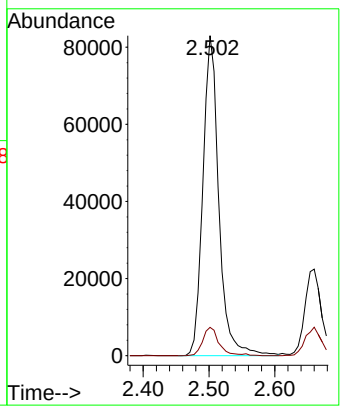


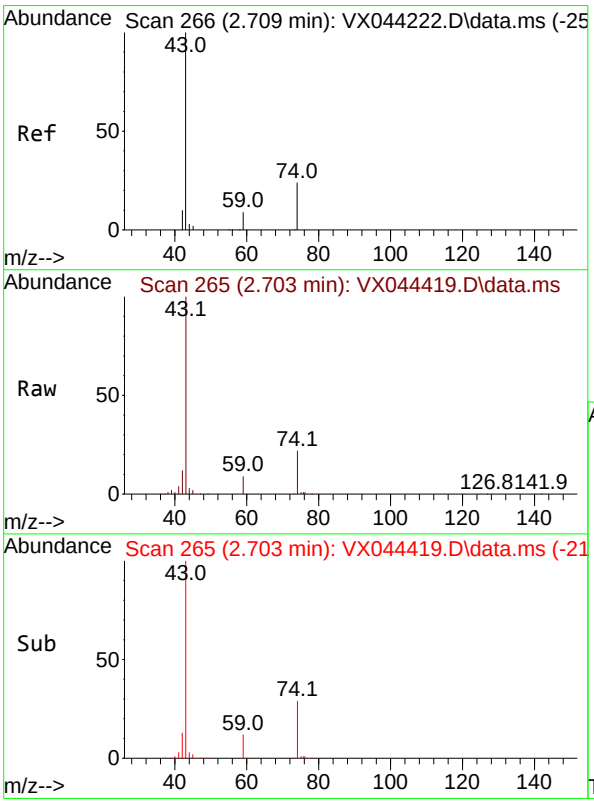
#17
Carbon Disulfide
Concen: 53.502 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 140202

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.4	11.0

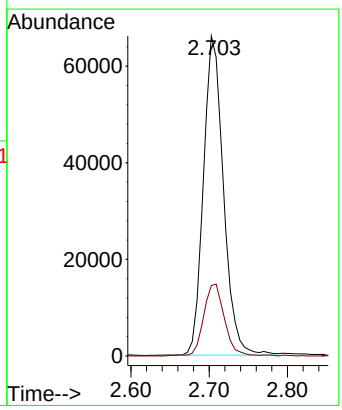


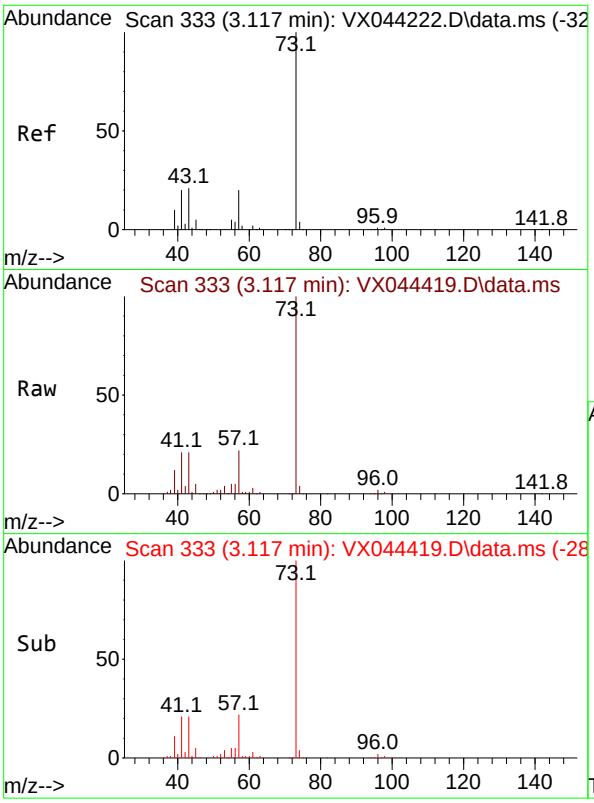


#18
Methyl Acetate
Concen: 51.949 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 43 Resp: 117756

Ion	Ratio	Lower	Upper
43	100		
74	23.2	17.7	26.5



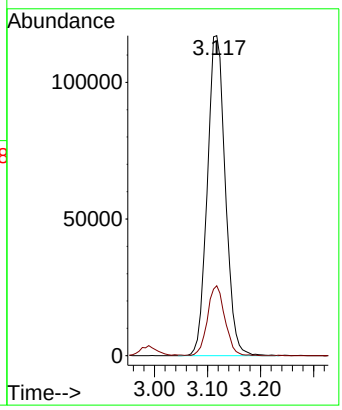


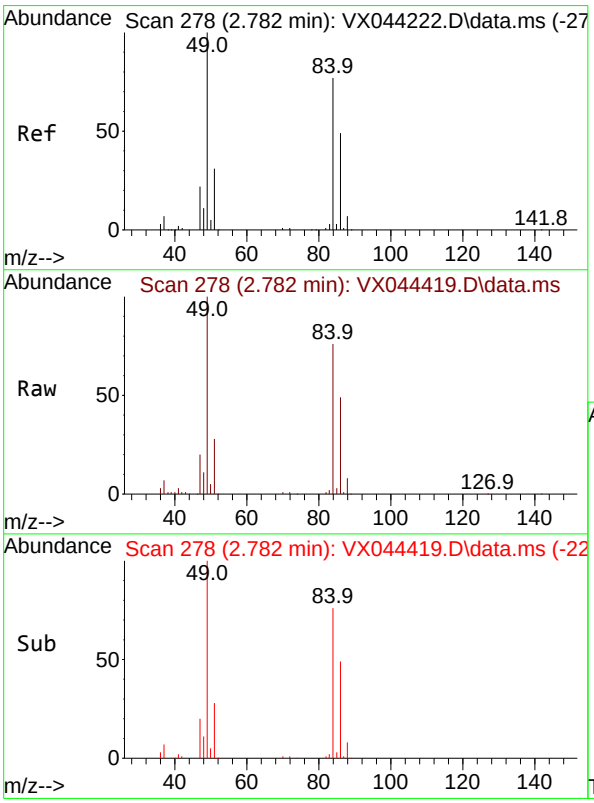
#19
Methyl tert-butyl Ether
Concen: 51.323 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 276100

Ion	Ratio	Lower	Upper
73	100		
57	21.7	16.2	24.4

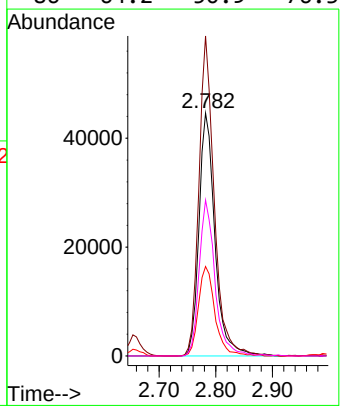


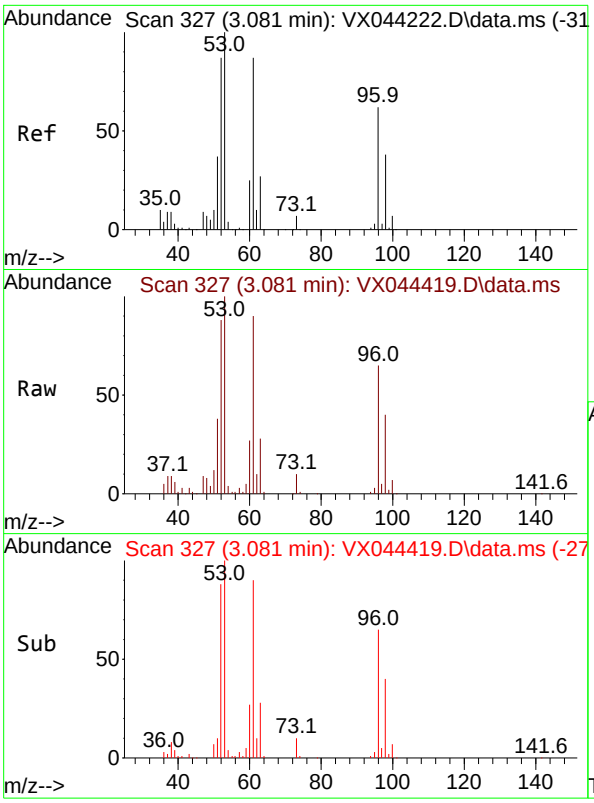


#20
Methylene Chloride
Concen: 53.006 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 84 Resp: 87526

Ion	Ratio	Lower	Upper
84	100		
49	131.7	104.2	156.4
51	36.8	32.2	48.4
86	64.2	50.9	76.3



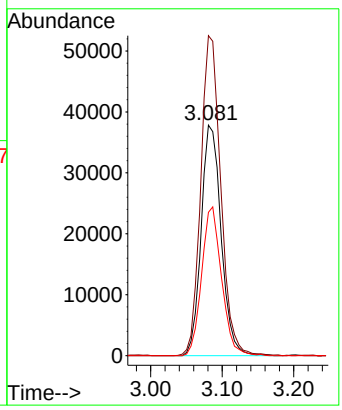


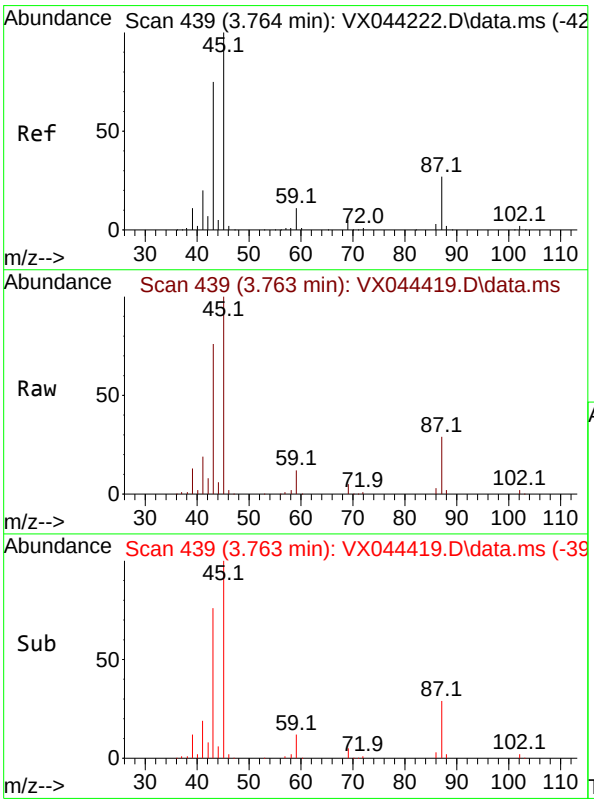
#21
trans-1,2-Dichloroethene
Concen: 50.186 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 73529

Ion	Ratio	Lower	Upper
96	100		
61	138.7	112.0	168.0
98	62.2	48.8	73.2

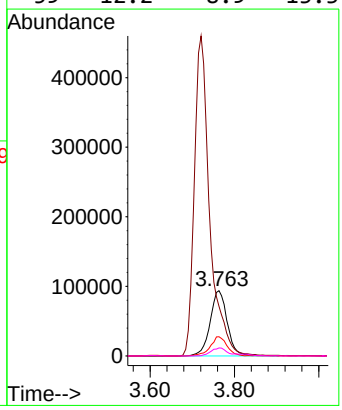


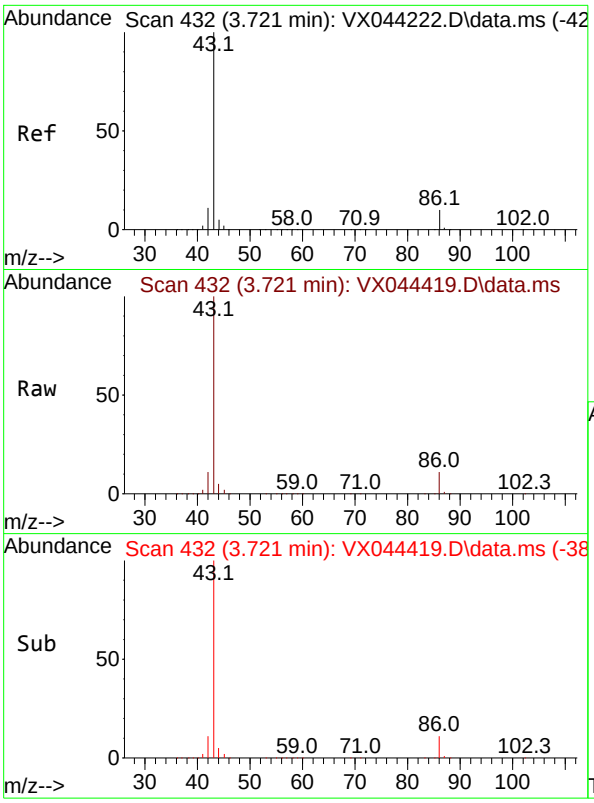


#22
Diisopropyl ether
Concen: 51.065 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 45 Resp: 264037

Ion	Ratio	Lower	Upper
45	100		
43	76.0	60.2	90.2
87	29.4	21.2	31.8
59	12.2	8.9	13.3



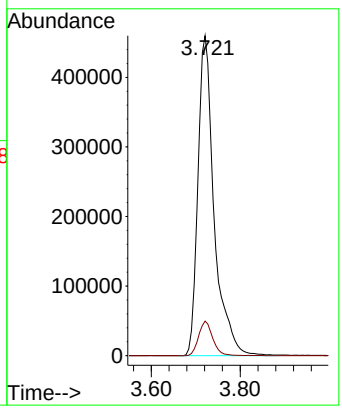


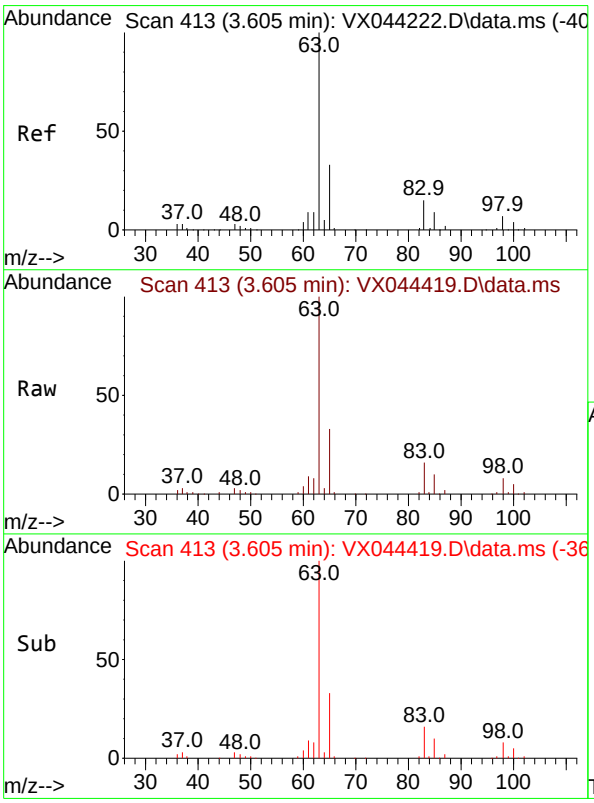
#23
Vinyl Acetate
Concen: 277.841 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1167975

Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.2	12.2

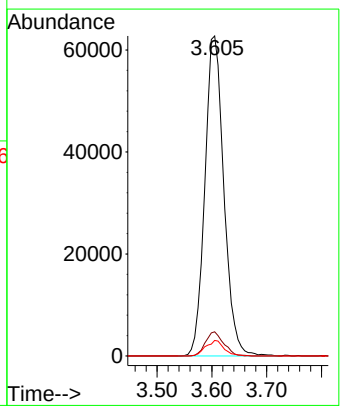


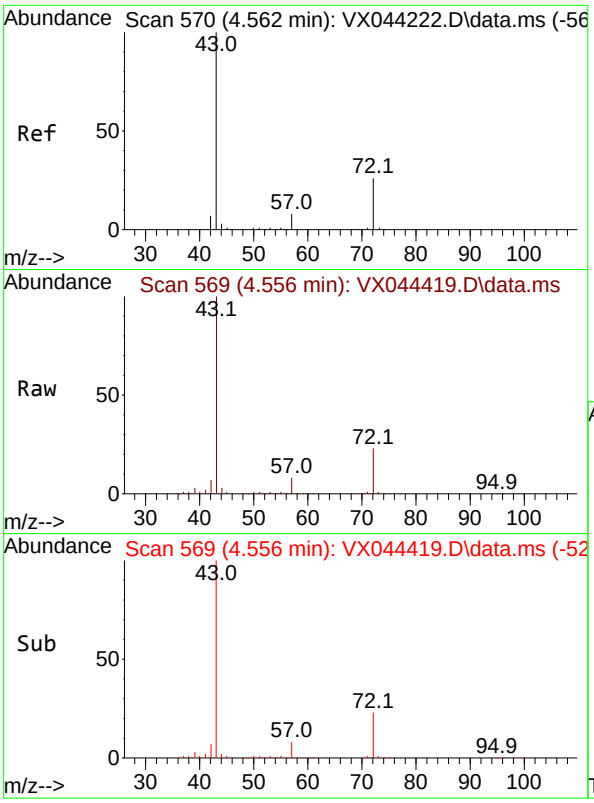


#24
1,1-Dichloroethane
Concen: 52.331 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 63 Resp: 150830

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.6	10.8
100	4.9	2.1	6.3



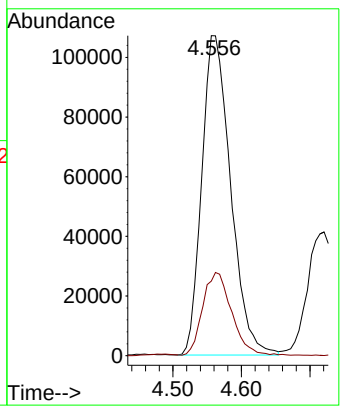


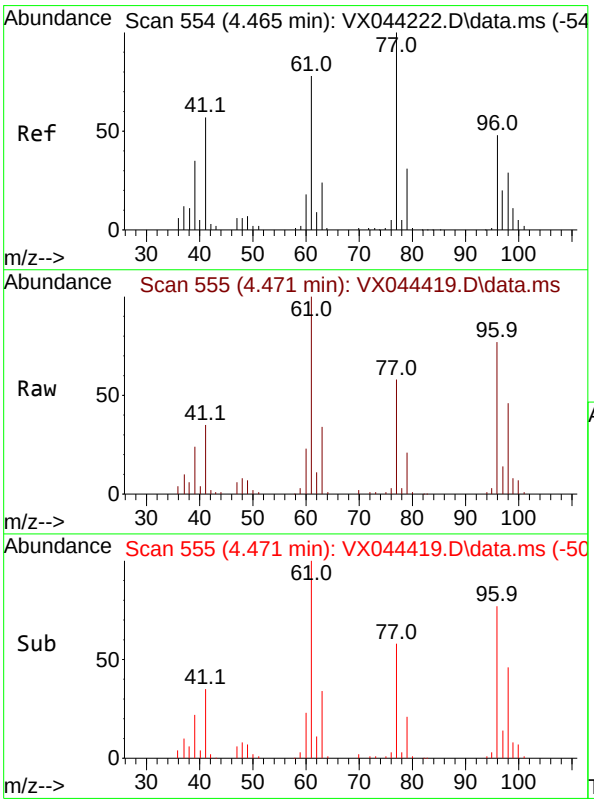
#25
2-Butanone
Concen: 251.145 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 313889

Ion	Ratio	Lower	Upper
43	100		
72	23.1	20.2	30.4

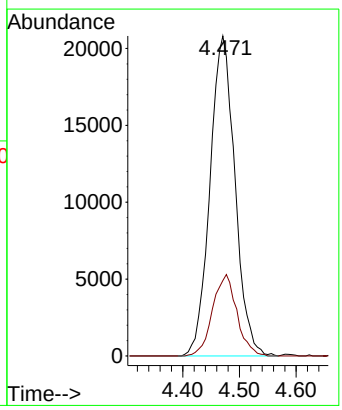


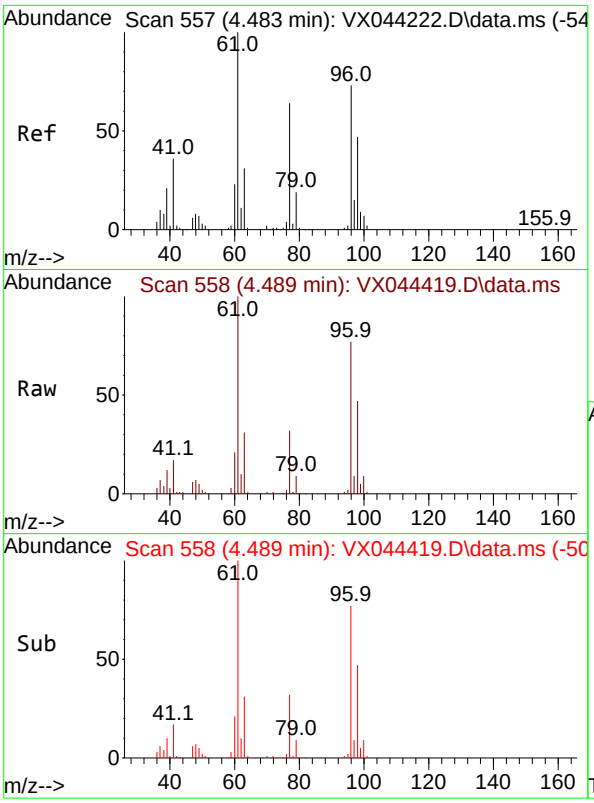


#26
2,2-Dichloropropane
Concen: 27.229 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 77 Resp: 63758

Ion	Ratio	Lower	Upper
77	100		
97	24.7	10.7	32.1



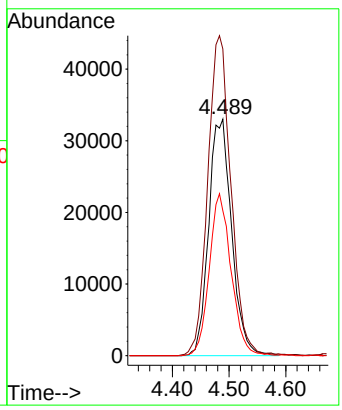


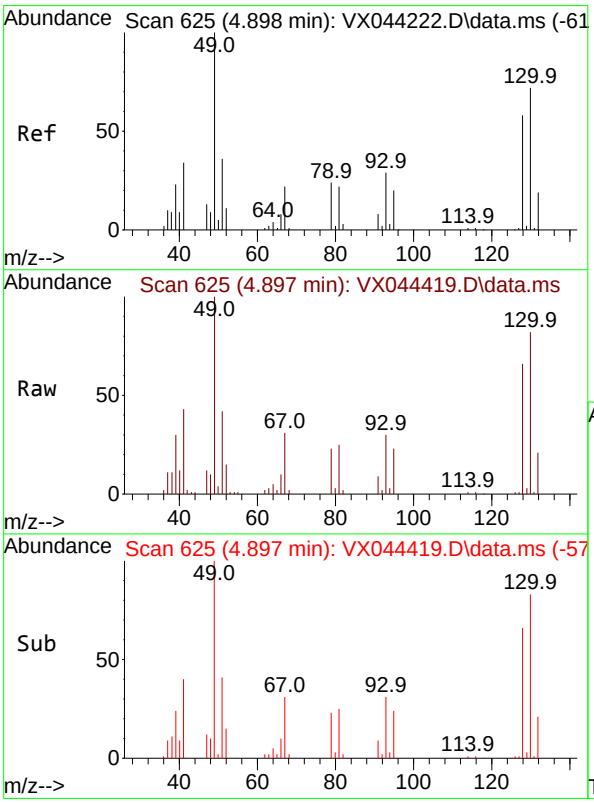
#27
cis-1,2-Dichloroethene
Concen: 49.930 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 92907

Ion	Ratio	Lower	Upper
96	100		
61	136.6	0.0	299.0
98	65.1	0.0	129.0

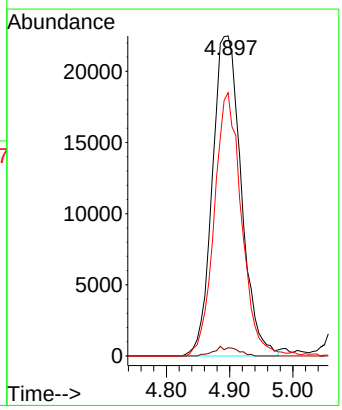


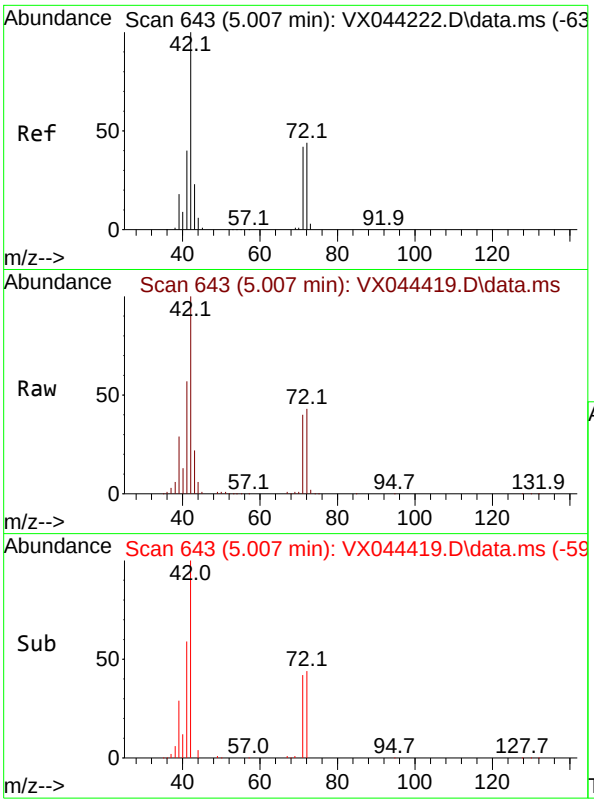


#28
Bromochloromethane
Concen: 50.366 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 49 Resp: 71184

Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	4.2
130	77.9	62.1	93.1



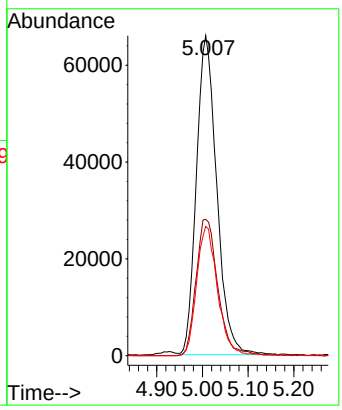


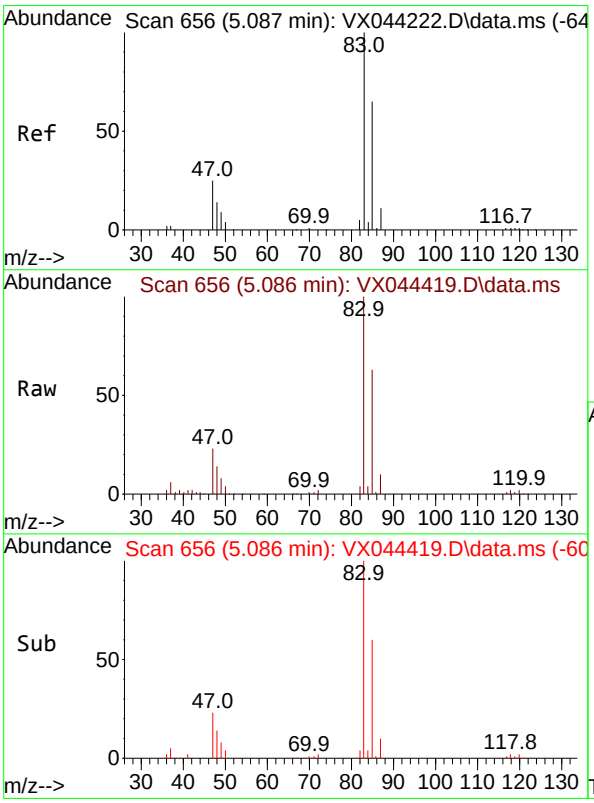
#29
Tetrahydrofuran
Concen: 254.175 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 203906

Ion	Ratio	Lower	Upper
42	100		
72	46.0	37.0	55.6
71	41.6	33.6	50.4

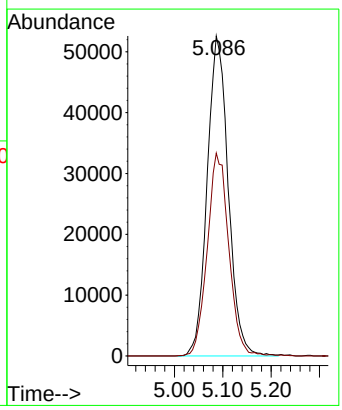


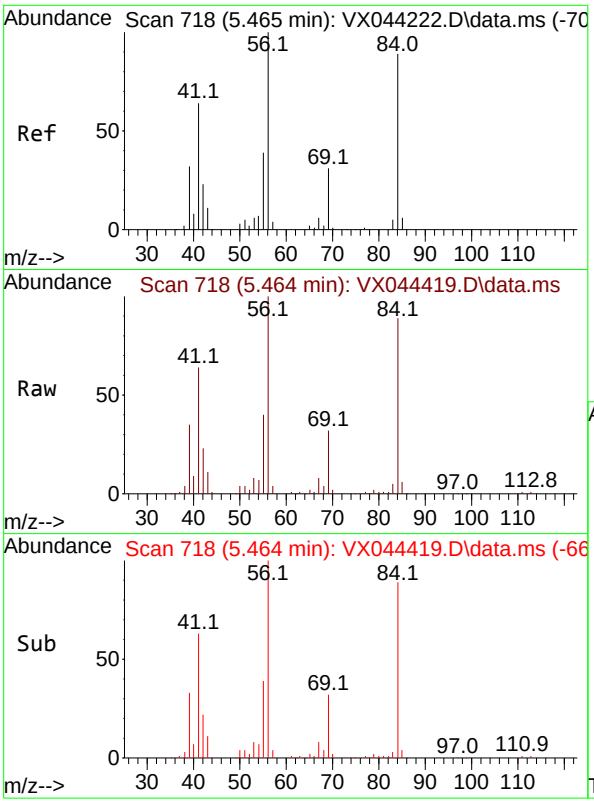


#30
Chloroform
Concen: 49.178 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 83 Resp: 159252

Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.6	77.4



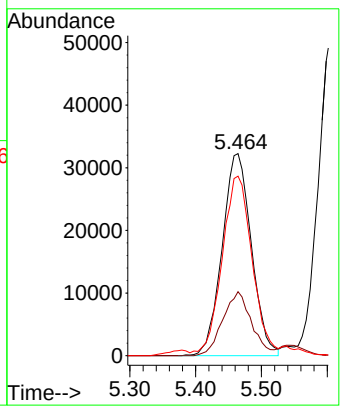


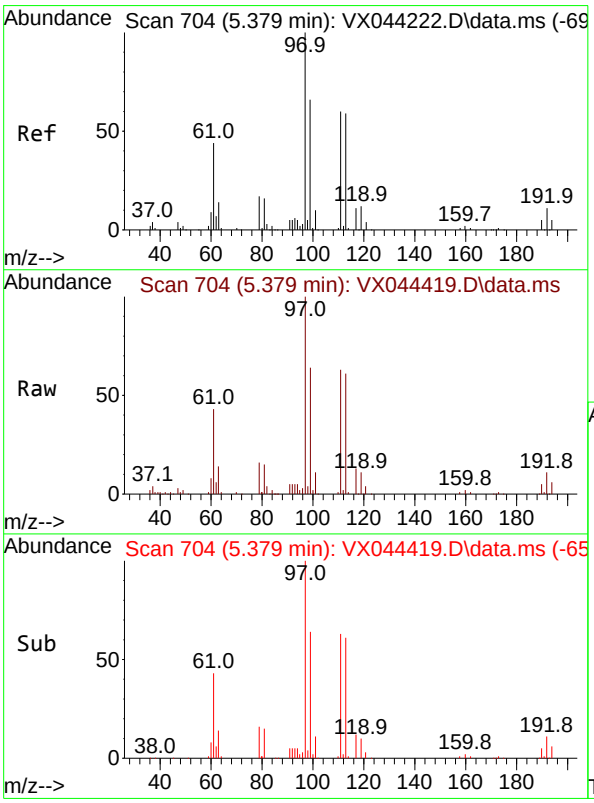
#31
Cyclohexane
Concen: 42.827 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 99678

Ion	Ratio	Lower	Upper
56	100		
69	31.7	24.7	37.1
84	86.4	71.0	106.6

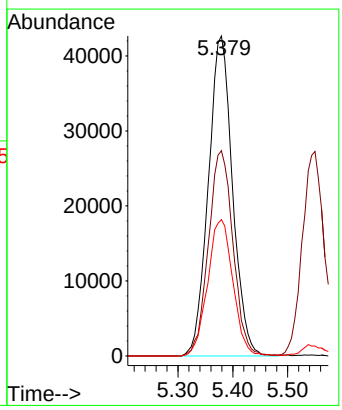


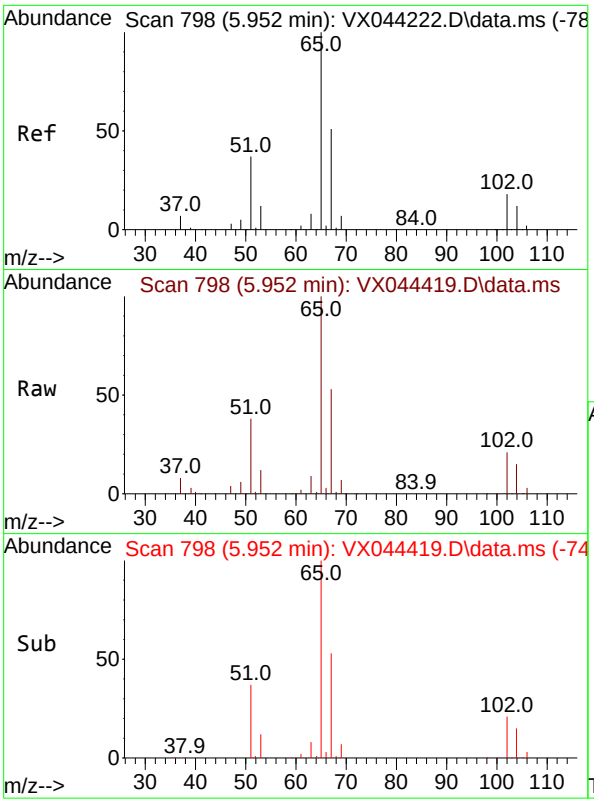


#32
1,1,1-Trichloroethane
Concen: 48.640 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 97 Resp: 130746

Ion	Ratio	Lower	Upper
97	100		
99	65.3	50.8	76.2
61	44.6	35.2	52.8



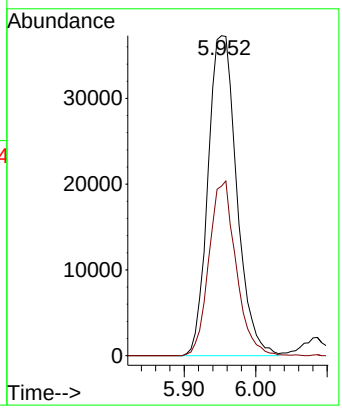


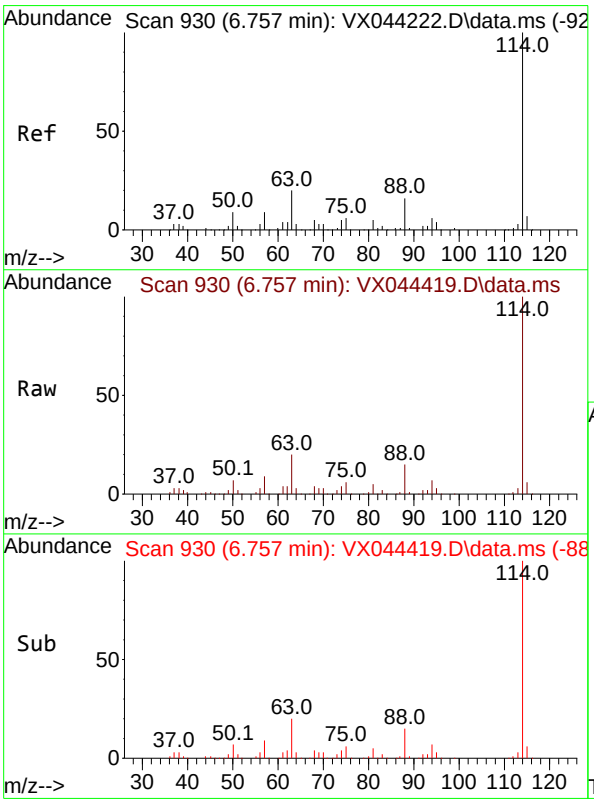
#33
1,2-Dichloroethane-d4
Concen: 48.341 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 104245

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	101.6

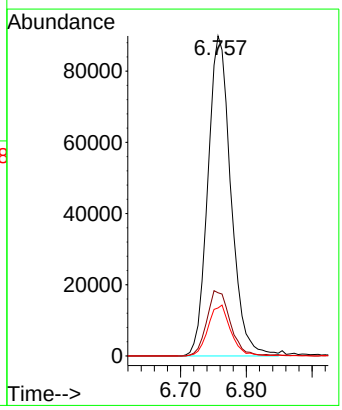


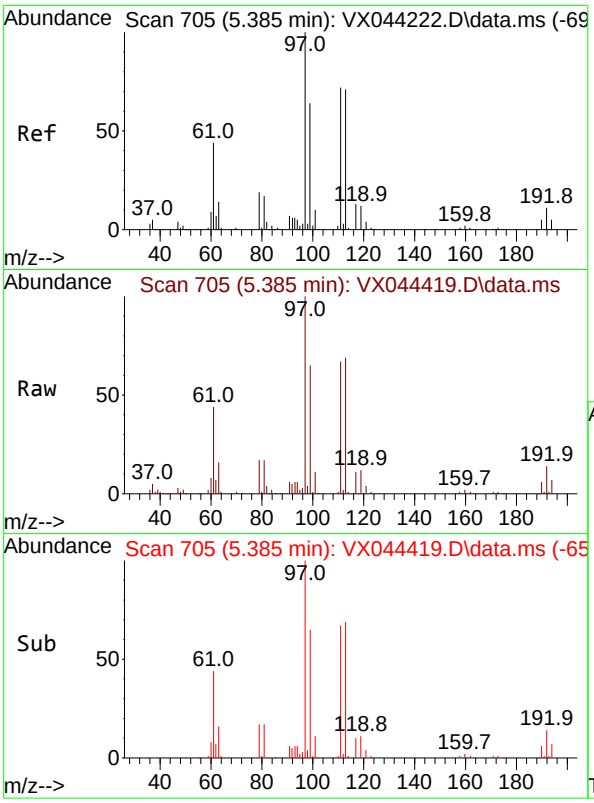


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:114 Resp: 219241

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	40.6
88	15.0	0.0	31.8



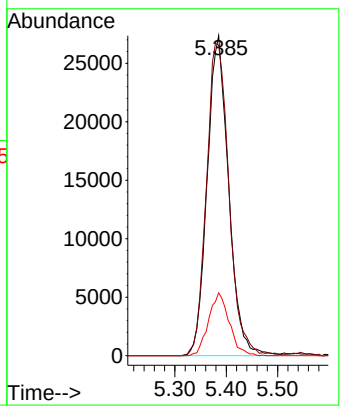


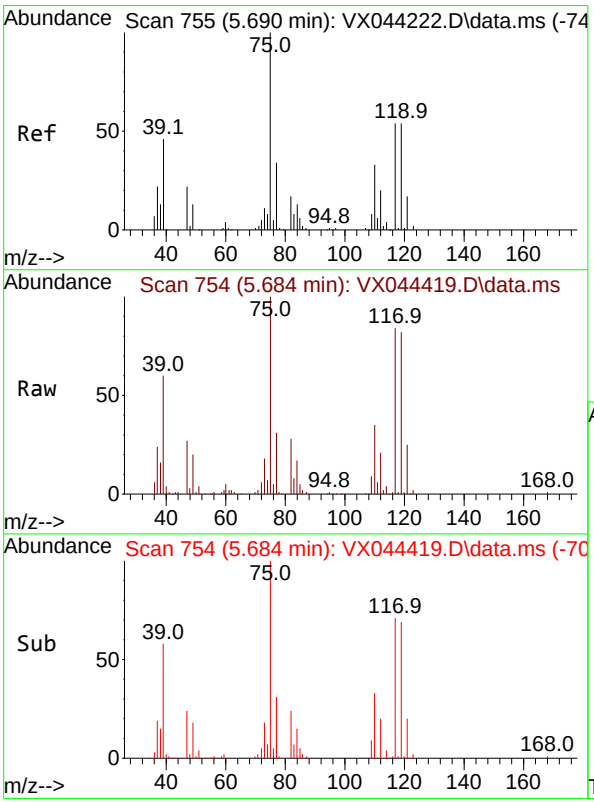
#35
Dibromofluoromethane
Concen: 52.285 ug/l
RT: 5.385 min Scan# 7(
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 79392

Ion	Ratio	Lower	Upper
113	100		
111	102.6	80.4	120.6
192	19.0	13.3	19.9

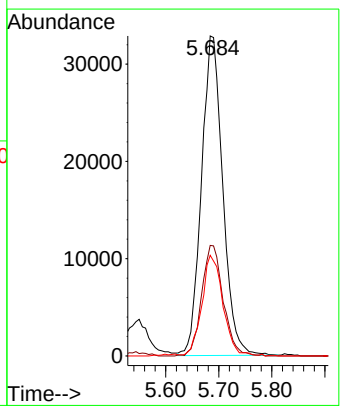


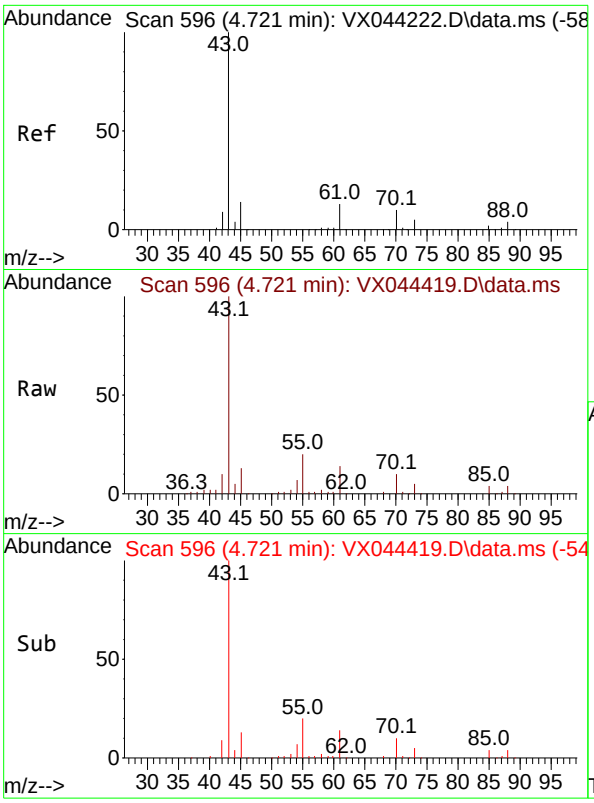


#36
1,1-Dichloropropene
Concen: 46.748 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 75 Resp: 91756

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.3	51.7
77	30.6	25.4	38.0



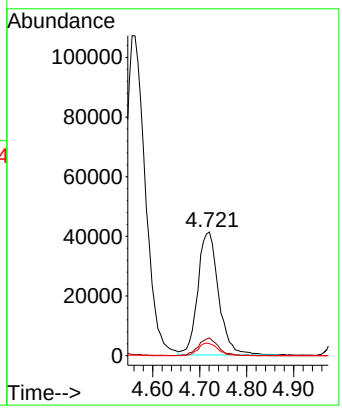


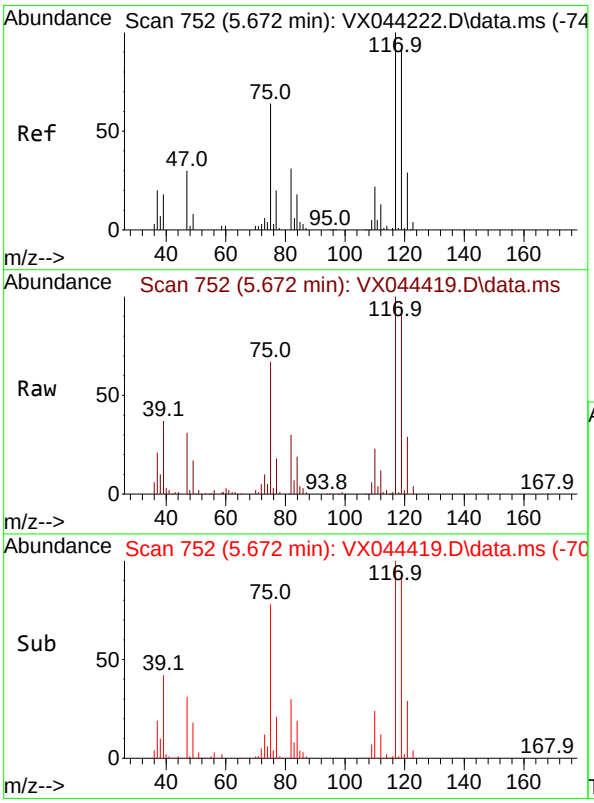
#37
Ethyl Acetate
Concen: 52.248 ug/l
RT: 4.721 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 126767

Ion	Ratio	Lower	Upper
43	100		
61	13.4	9.8	14.8
70	9.7	7.7	11.5

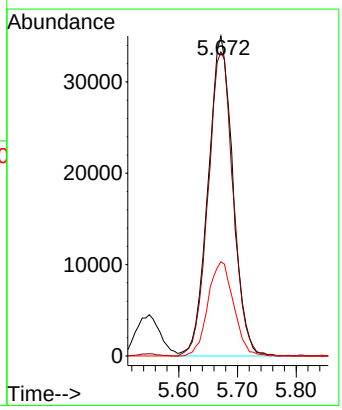


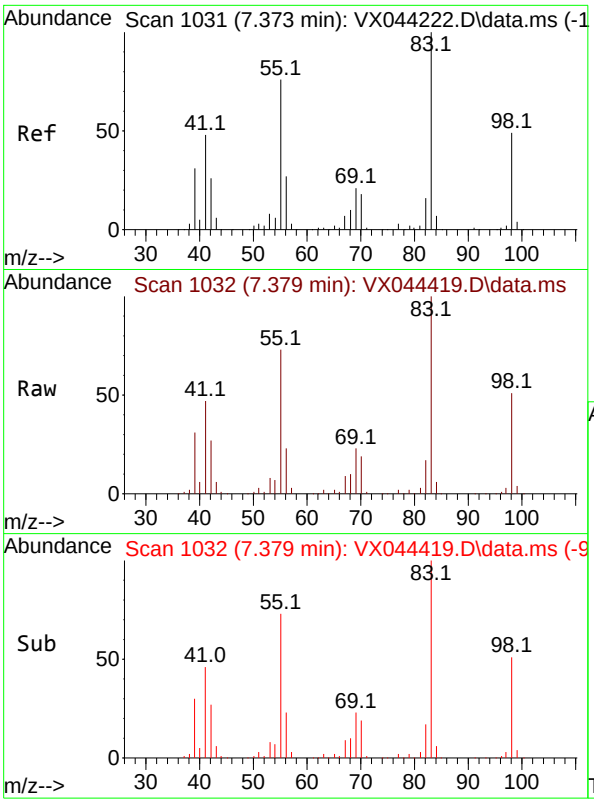


#38
Carbon Tetrachloride
Concen: 48.416 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:117 Resp: 102311

Ion	Ratio	Lower	Upper
117	100		
119	95.0	74.2	111.4
121	29.5	23.0	34.6



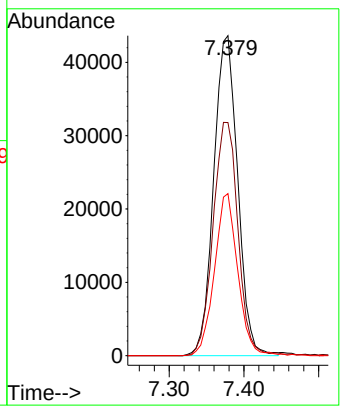


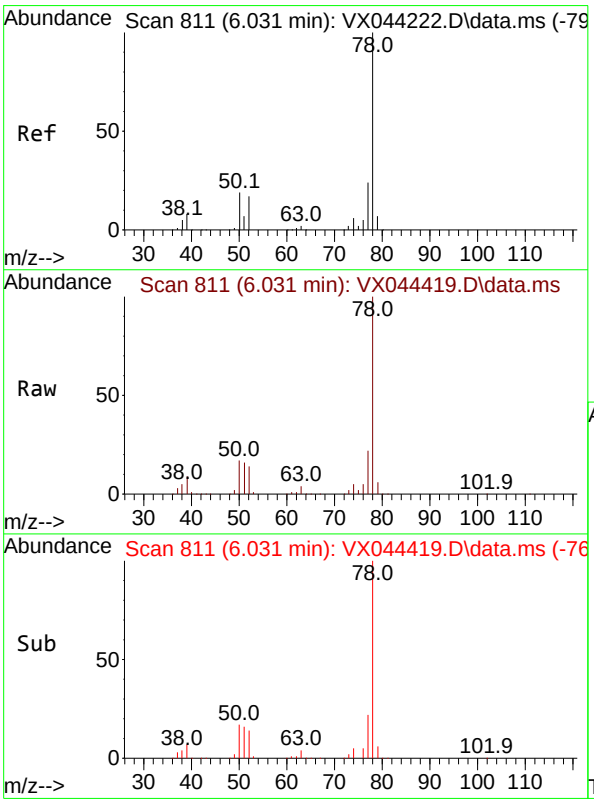
#39
Methylcyclohexane
Concen: 41.546 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 97486

Ion	Ratio	Lower	Upper
83	100		
55	72.8	60.7	91.1
98	50.6	38.9	58.3

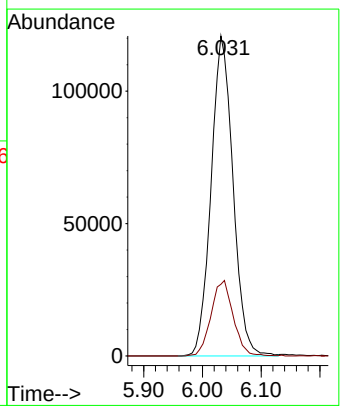


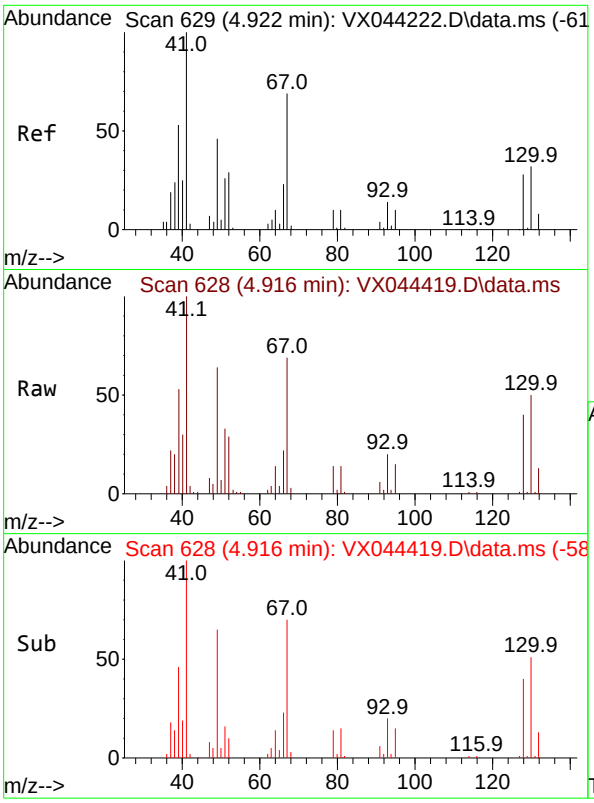


#40
Benzene
Concen: 52.556 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 78 Resp: 313202

Ion	Ratio	Lower	Upper
78	100		
77	22.4	19.3	28.9



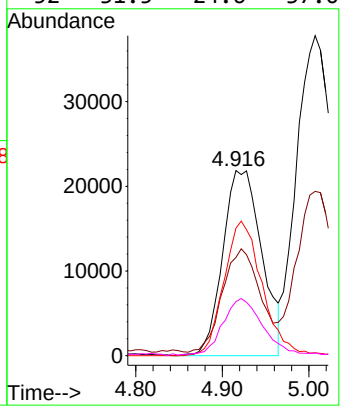


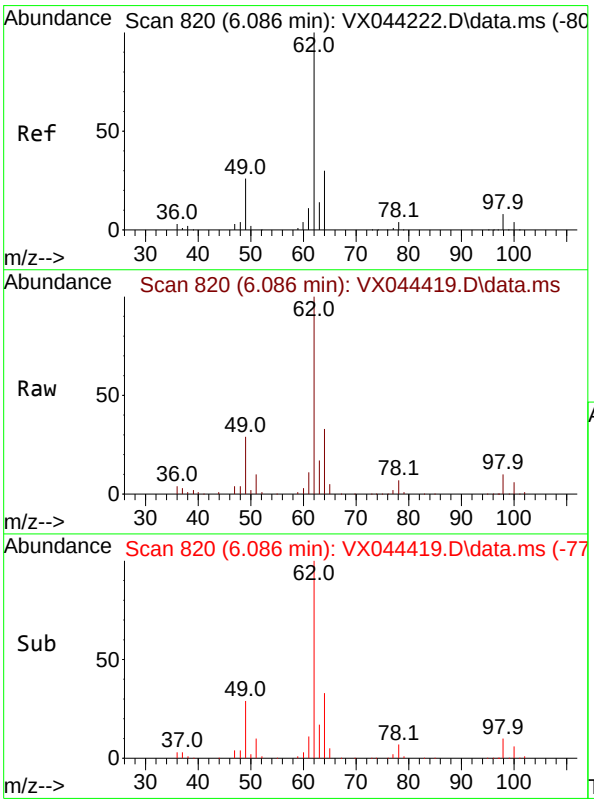
#41
Methacrylonitrile
Concen: 53.276 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 68638

Ion	Ratio	Lower	Upper
41	100		
39	52.9	44.2	66.4
67	71.0	57.2	85.8
52	31.5	24.6	37.0

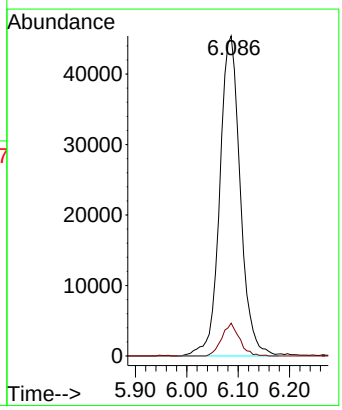


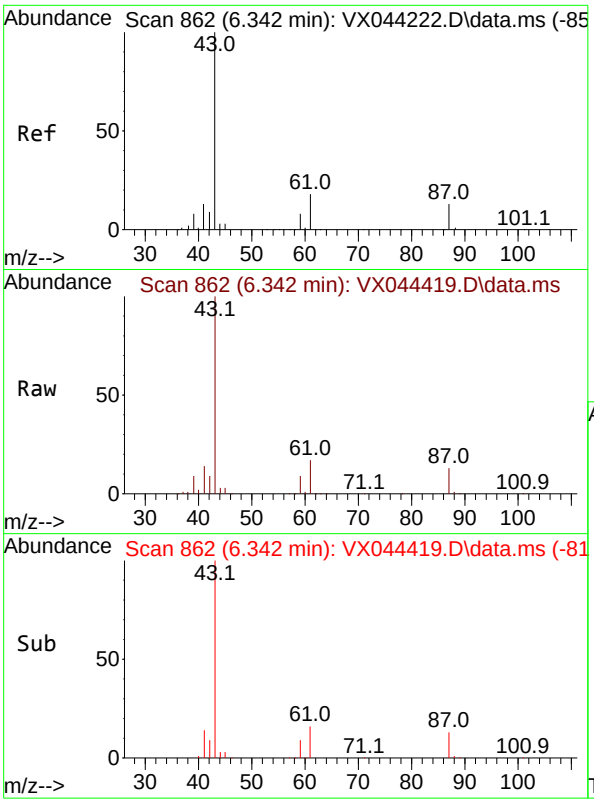


#42
1,2-Dichloroethane
Concen: 51.349 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 62 Resp: 126056

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	15.8



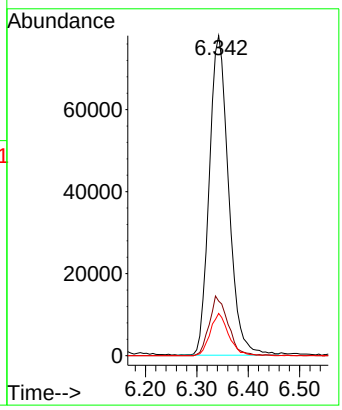


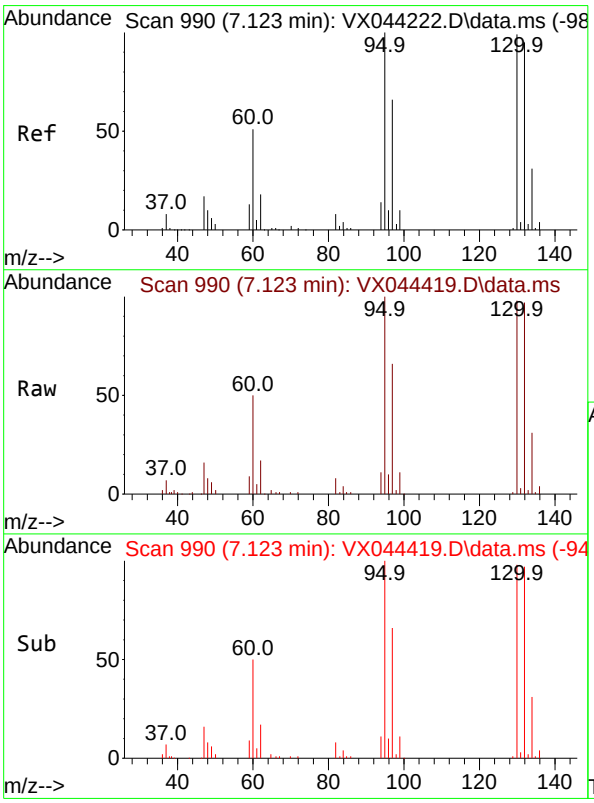
#43
Isopropyl Acetate
Concen: 53.759 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 203865

Ion	Ratio	Lower	Upper
43	100		
61	18.1	14.2	21.2
87	12.6	10.2	15.2

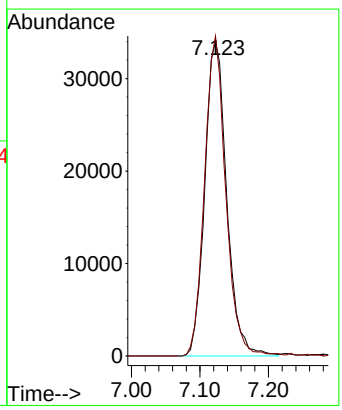


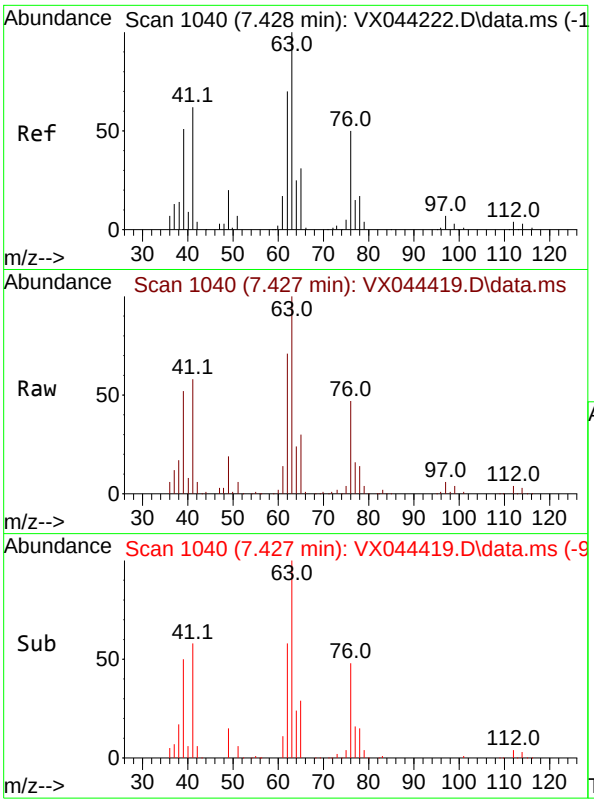


#44
Trichloroethene
Concen: 50.868 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:130 Resp: 75596

Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	201.4



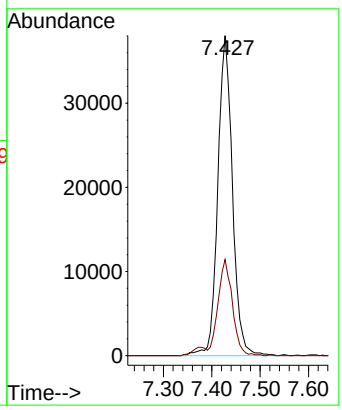


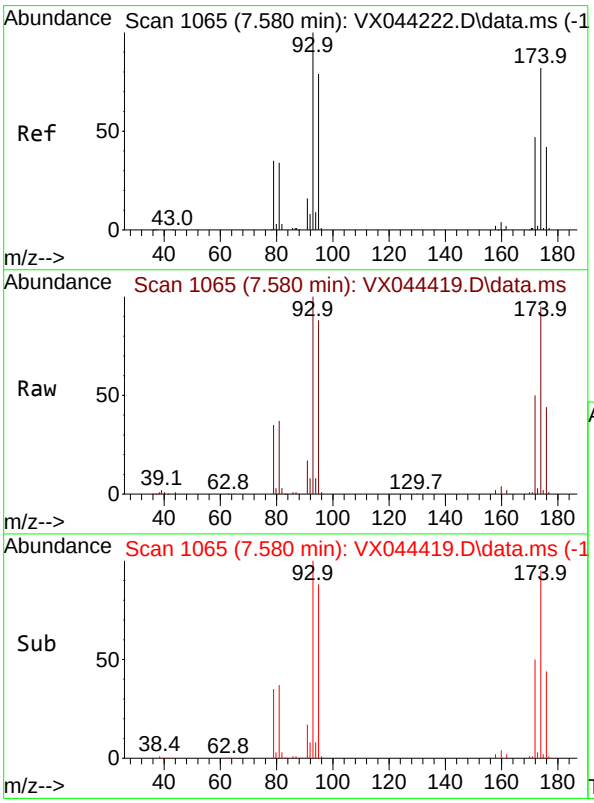
#45
1,2-Dichloropropane
Concen: 52.553 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 80013

Ion	Ratio	Lower	Upper
63	100		
65	30.0	24.6	37.0

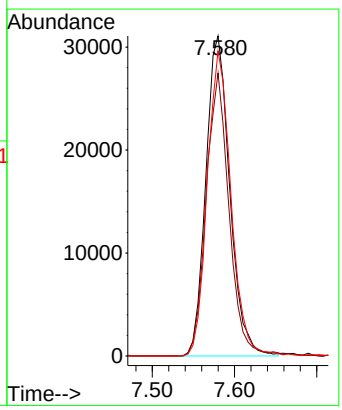


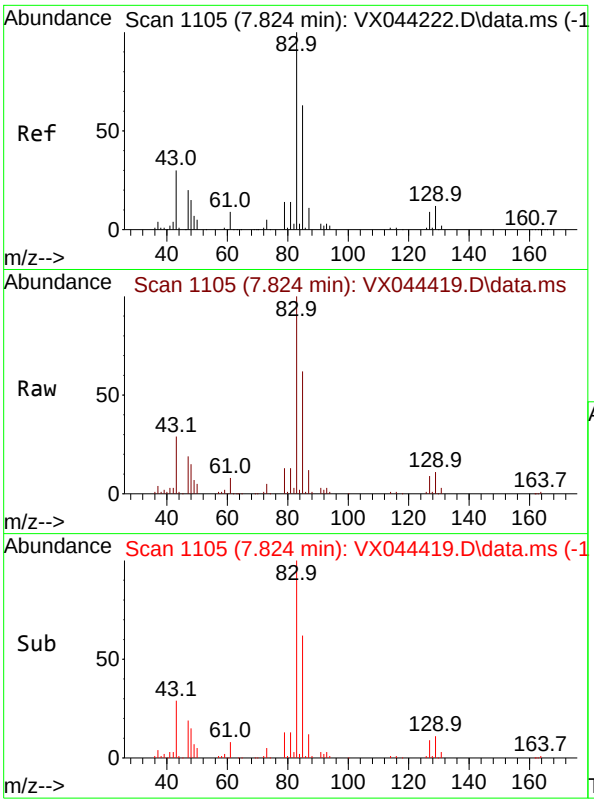


#46
Dibromomethane
Concen: 53.185 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 93 Resp: 62821

Ion	Ratio	Lower	Upper
93	100		
95	84.7	65.4	98.2
174	94.7	67.9	101.9



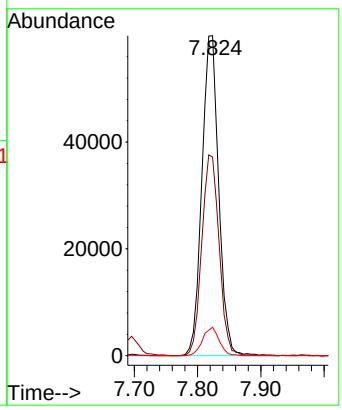


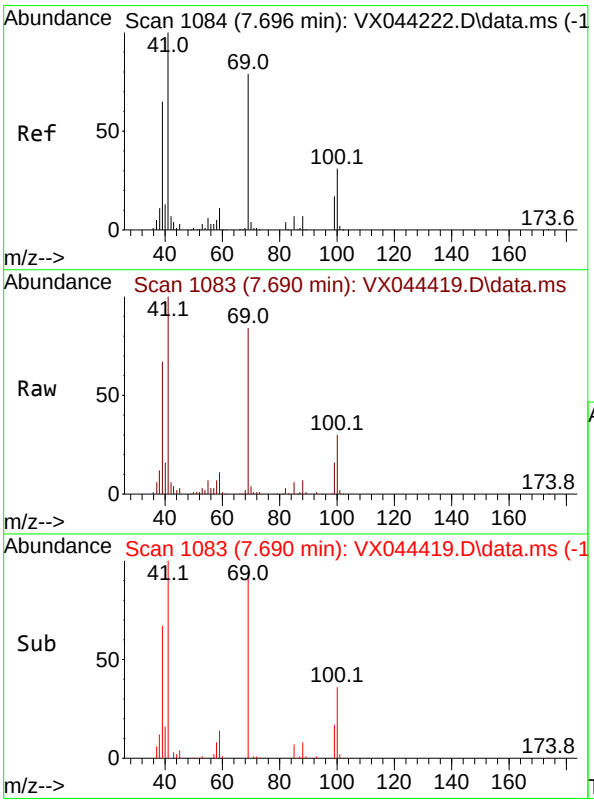
#47
Bromodichloromethane
Concen: 54.439 ug/l
RT: 7.824 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 111053

Ion	Ratio	Lower	Upper
83	100		
85	62.1	50.6	75.8
127	8.9	7.3	10.9

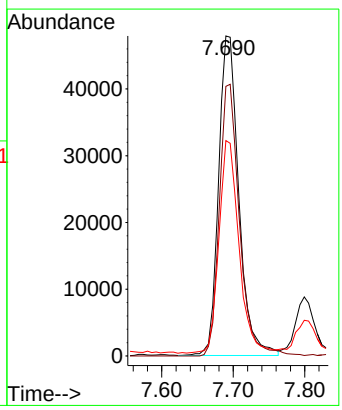


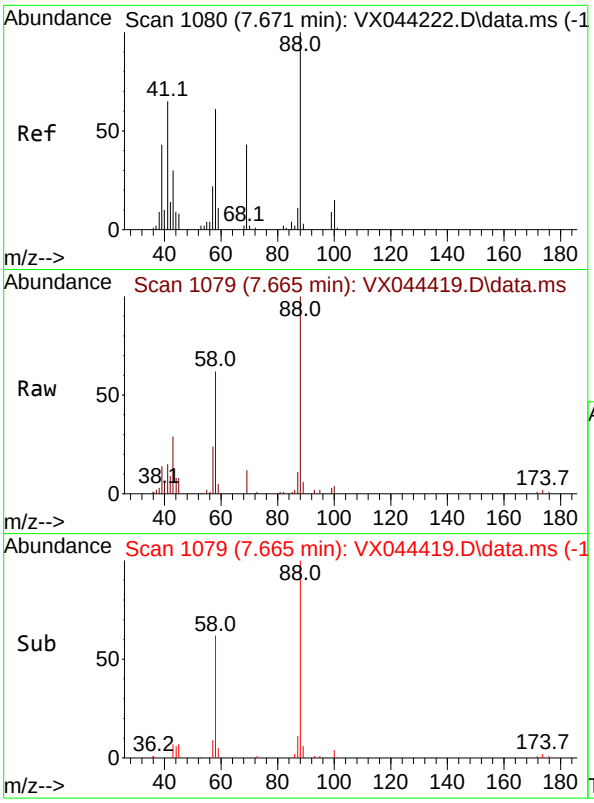


#48
Methyl methacrylate
Concen: 50.984 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 41 Resp: 93853

Ion	Ratio	Lower	Upper
41	100		
69	84.8	62.4	93.6
39	65.7	53.3	79.9



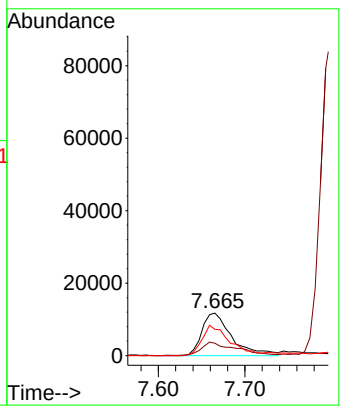


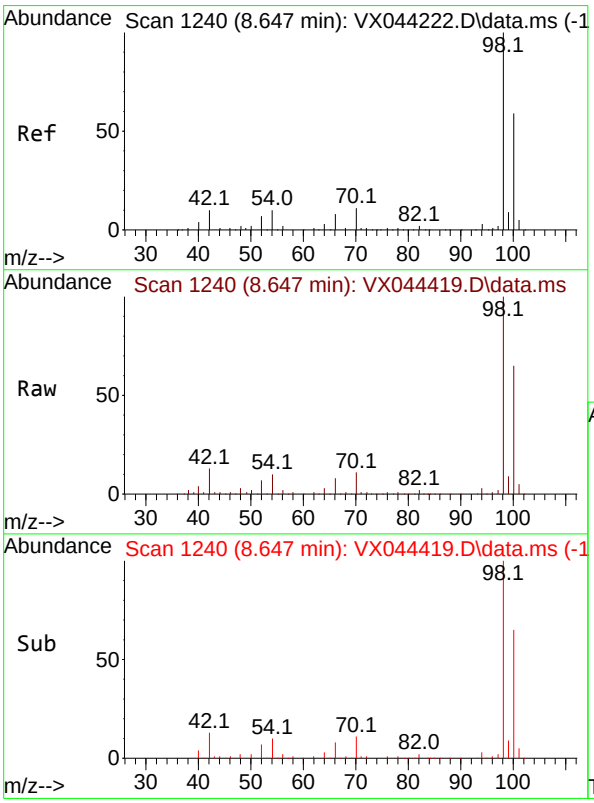
#49
1,4-Dioxane
Concen: 927.969 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 28322

Ion	Ratio	Lower	Upper
88	100		
43	37.9	27.1	40.7
58	65.7	41.0	61.4#

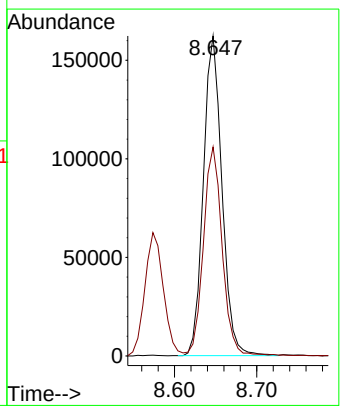


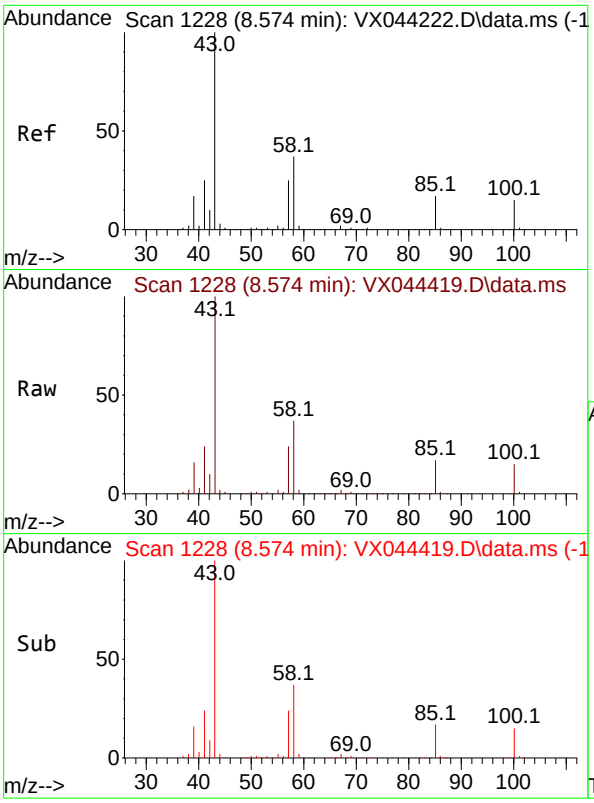


#50
Toluene-d8
Concen: 49.641 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 98 Resp: 254301

Ion	Ratio	Lower	Upper
98	100		
100	65.9	51.5	77.3



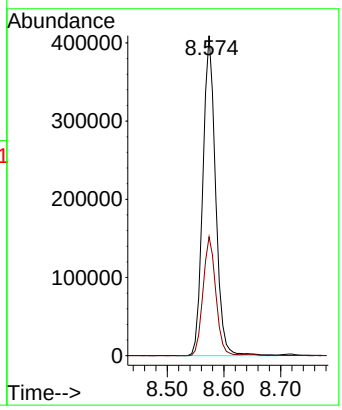


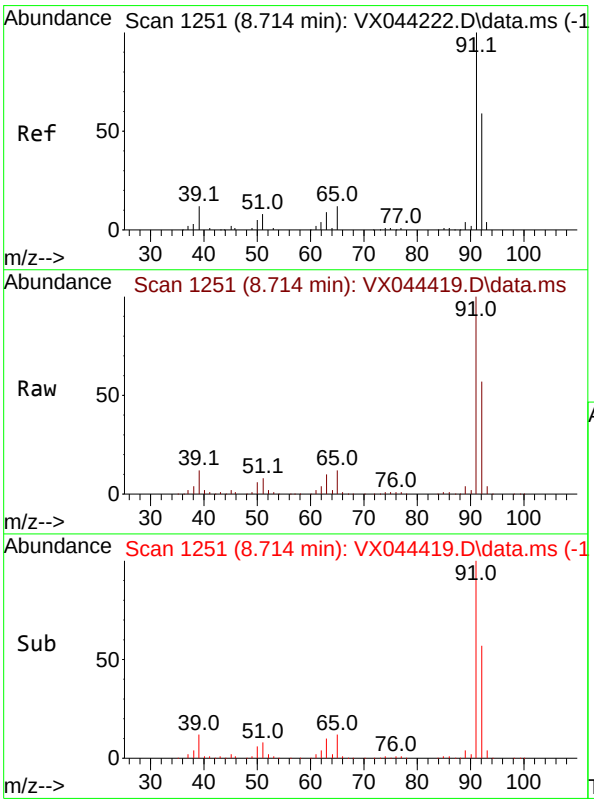
#51
4-Methyl-2-Pentanone
Concen: 261.345 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 637240

Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.4	44.0

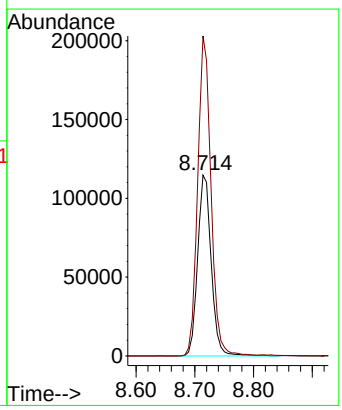


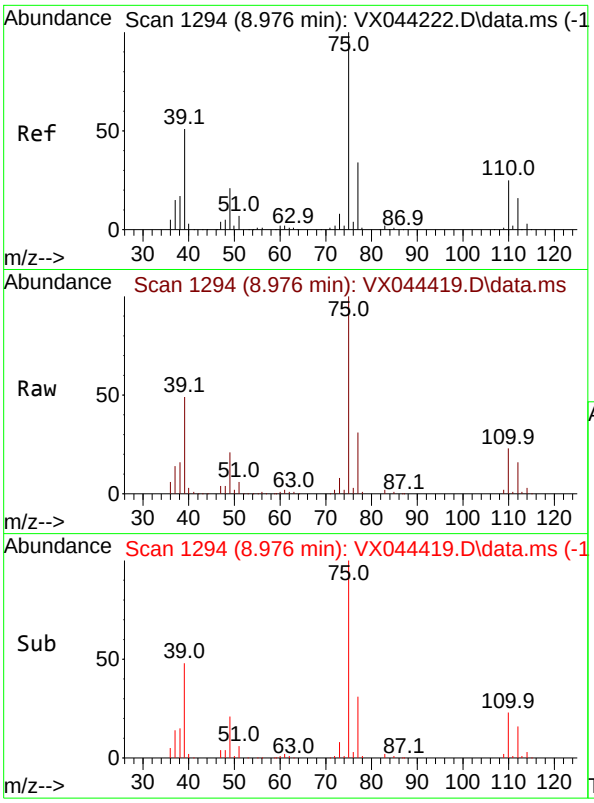


#52
Toluene
Concen: 49.148 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 92 Resp: 183930

Ion	Ratio	Lower	Upper
92	100		
91	173.8	137.0	205.6



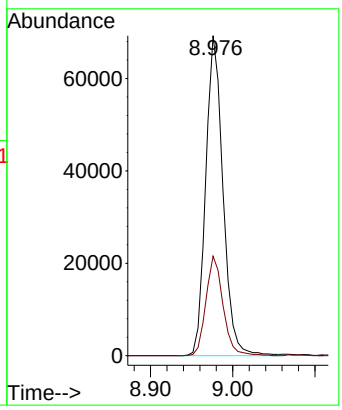


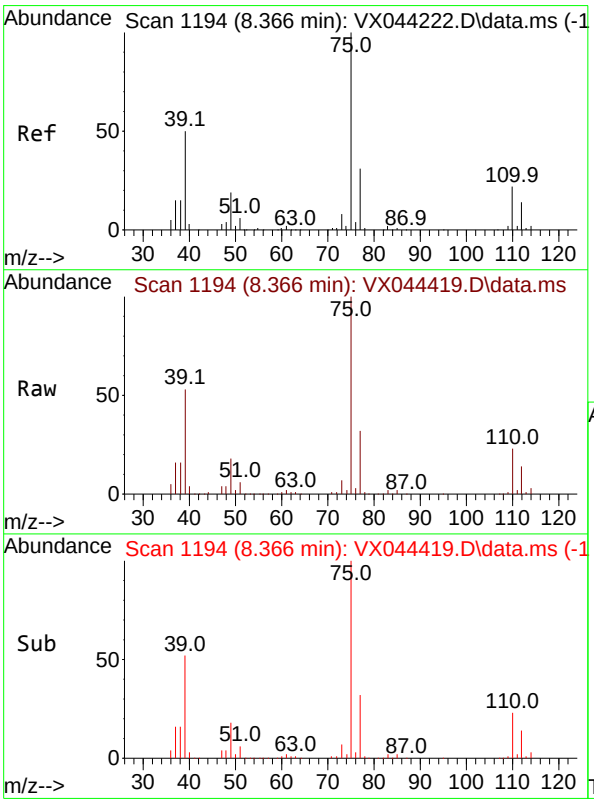
#53
t-1,3-Dichloropropene
Concen: 46.368 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 100994

Ion	Ratio	Lower	Upper
75	100		
77	31.1	27.2	40.8

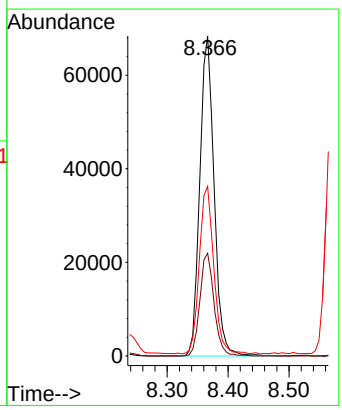


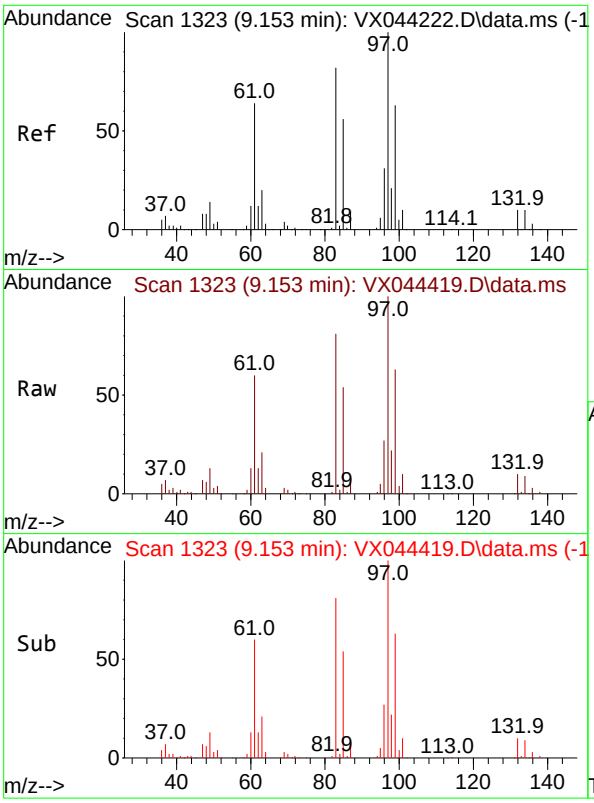


#54
cis-1,3-Dichloropropene
Concen: 50.228 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 75 Resp: 111565

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.7	37.1
39	52.3	40.3	60.5



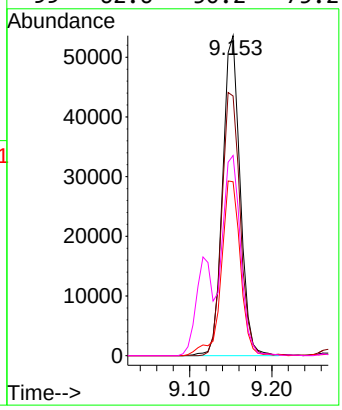


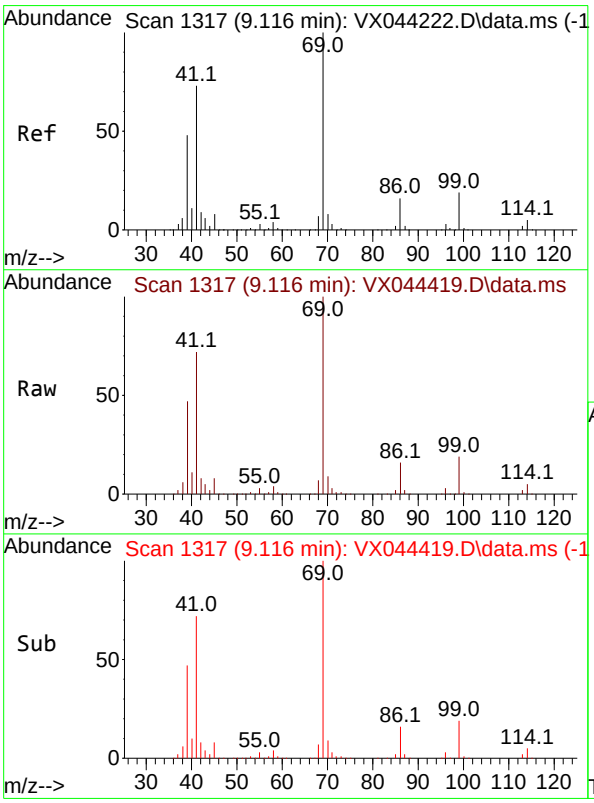
#55
1,1,2-Trichloroethane
Concen: 53.407 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 79401

Ion	Ratio	Lower	Upper
97	100		
83	81.2	65.3	97.9
85	54.4	44.6	67.0
99	62.6	50.2	75.2

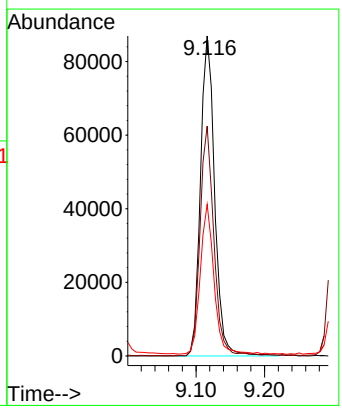


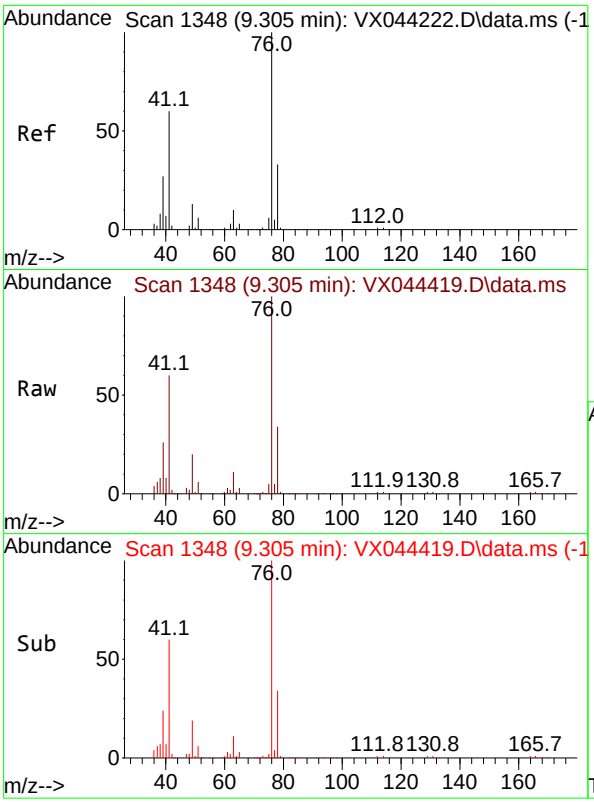


#56
Ethyl methacrylate
Concen: 53.432 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 69 Resp: 125407

Ion	Ratio	Lower	Upper
69	100		
41	69.9	56.6	85.0
39	45.7	37.4	56.0



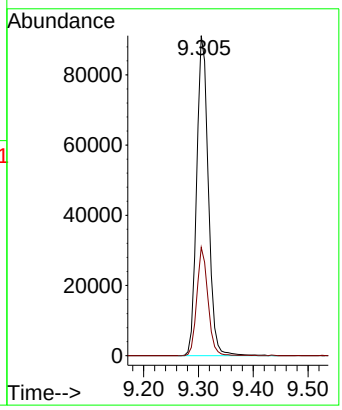


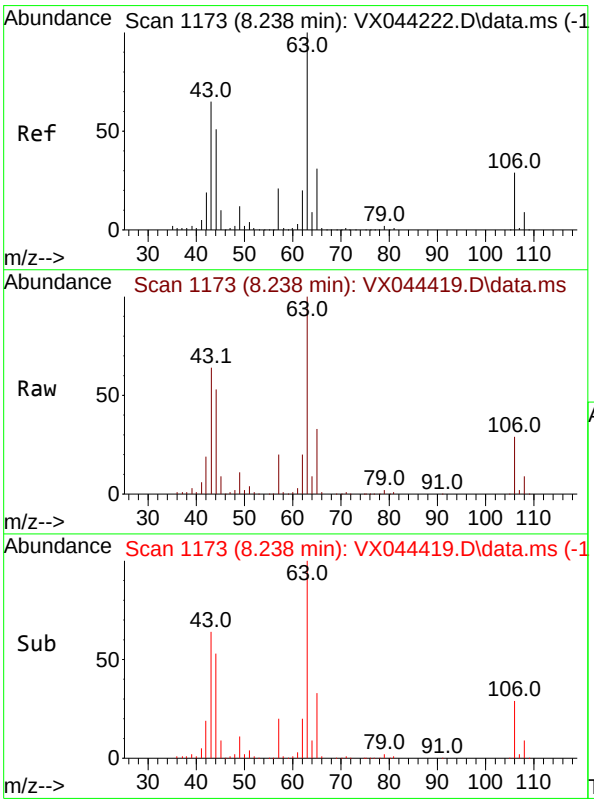
#57
1,3-Dichloropropane
Concen: 52.210 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 135107

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.5	39.7

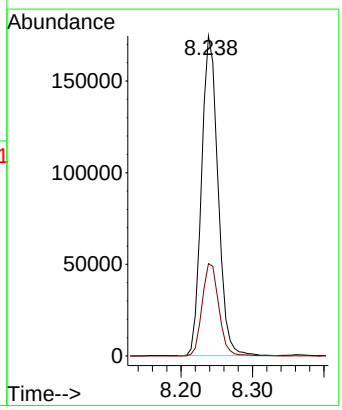


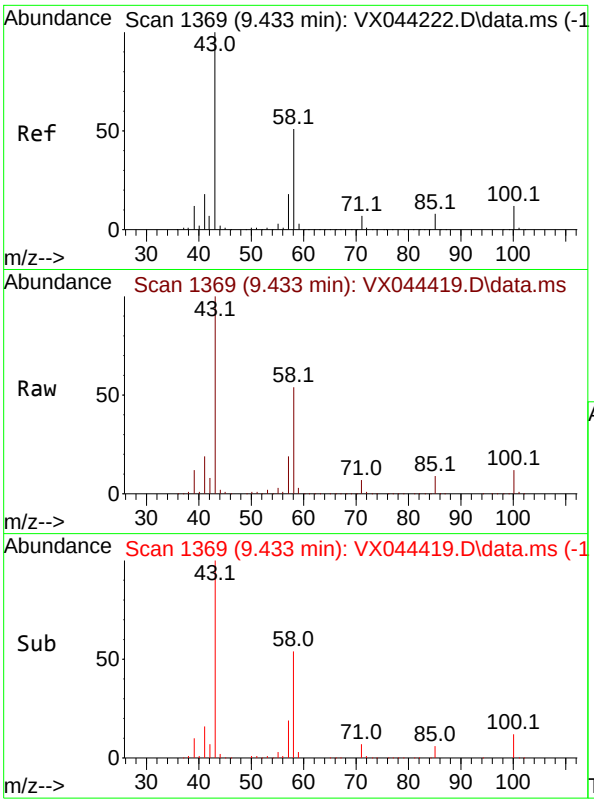


#58
2-Chloroethyl Vinyl ether
Concen: 235.938 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 63 Resp: 279300

Ion	Ratio	Lower	Upper
63	100		
106	29.3	22.8	34.2



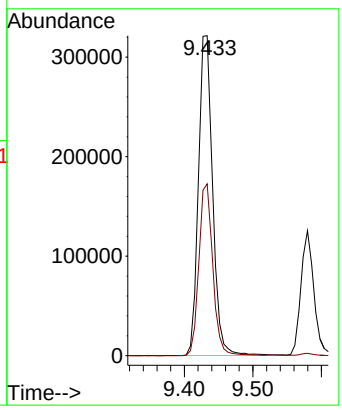


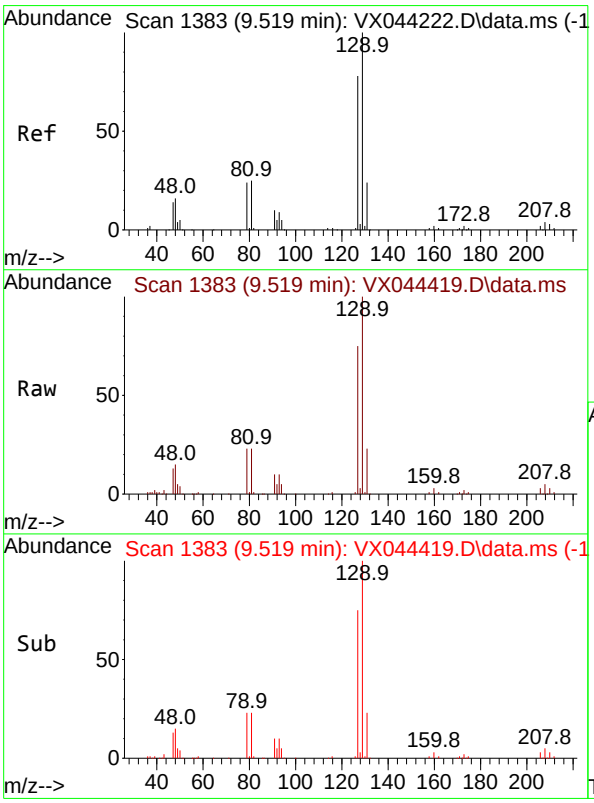
#59
2-Hexanone
Concen: 263.434 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 464936

Ion	Ratio	Lower	Upper
43	100		
58	52.7	25.7	77.0

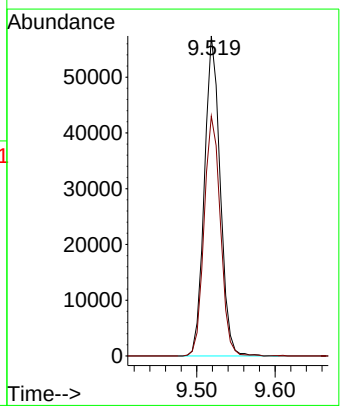


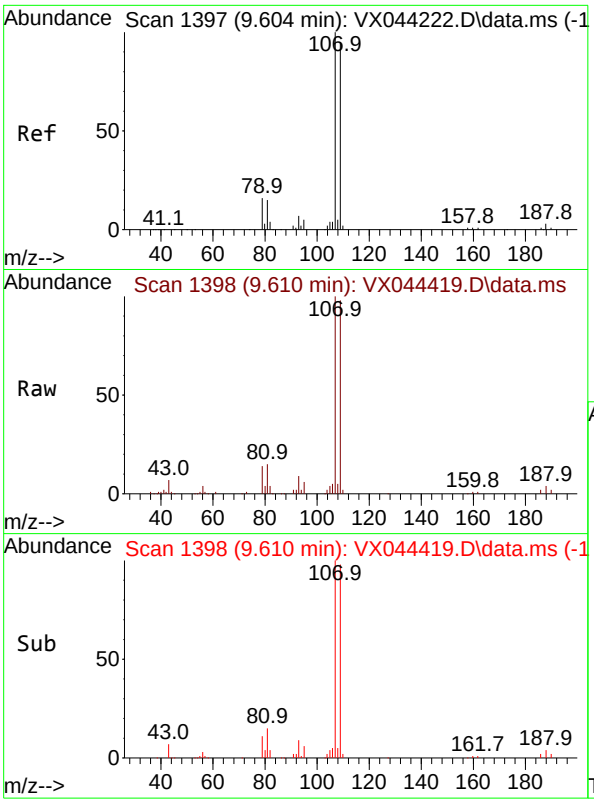


#60
Dibromochloromethane
Concen: 50.717 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:129 Resp: 79931

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.3



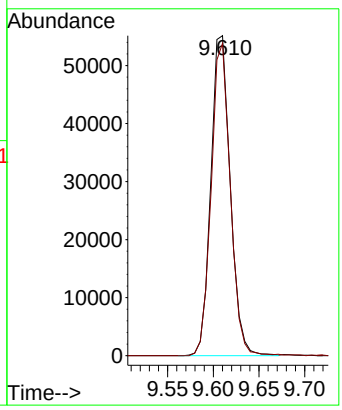


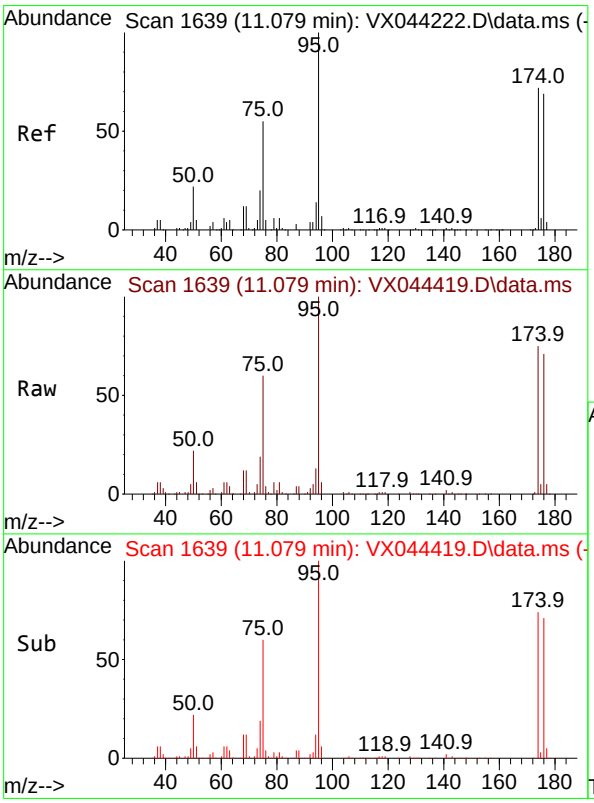
#61
1,2-Dibromoethane
Concen: 54.026 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 81759

Ion	Ratio	Lower	Upper
107	100		
109	96.1	77.0	115.4

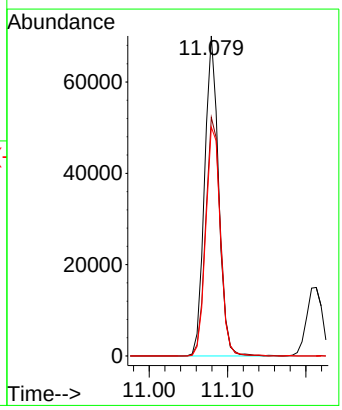


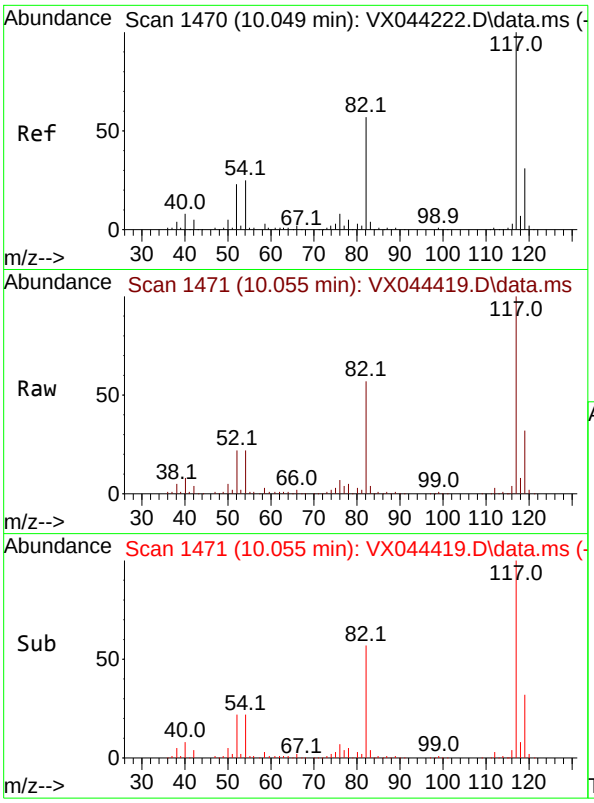


#62
4-Bromofluorobenzene
Concen: 48.509 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 95 Resp: 86833

Ion	Ratio	Lower	Upper
95	100		
174	78.0	0.0	145.8
176	74.8	0.0	137.8



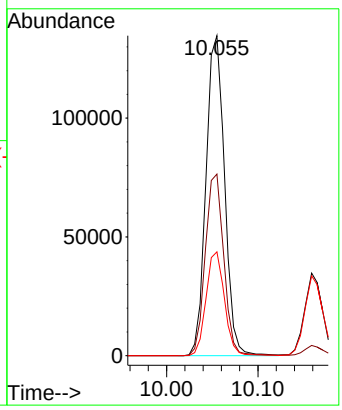


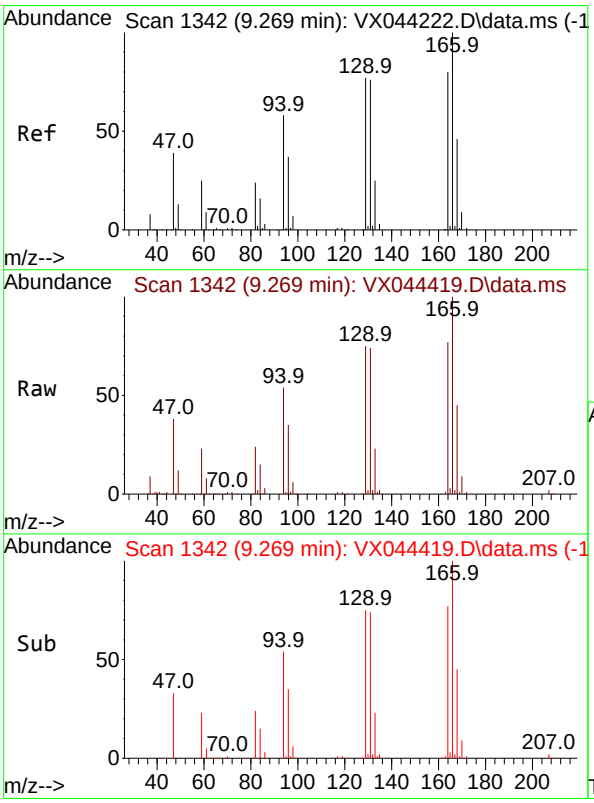
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 189779

Ion	Ratio	Lower	Upper
117	100		
82	56.7	45.8	68.8
119	32.5	25.0	37.4

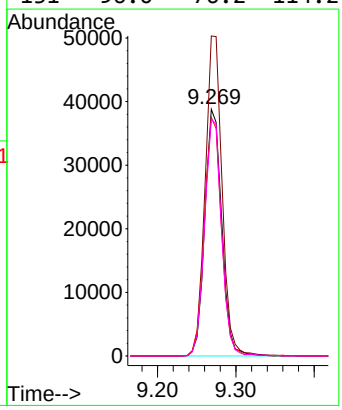


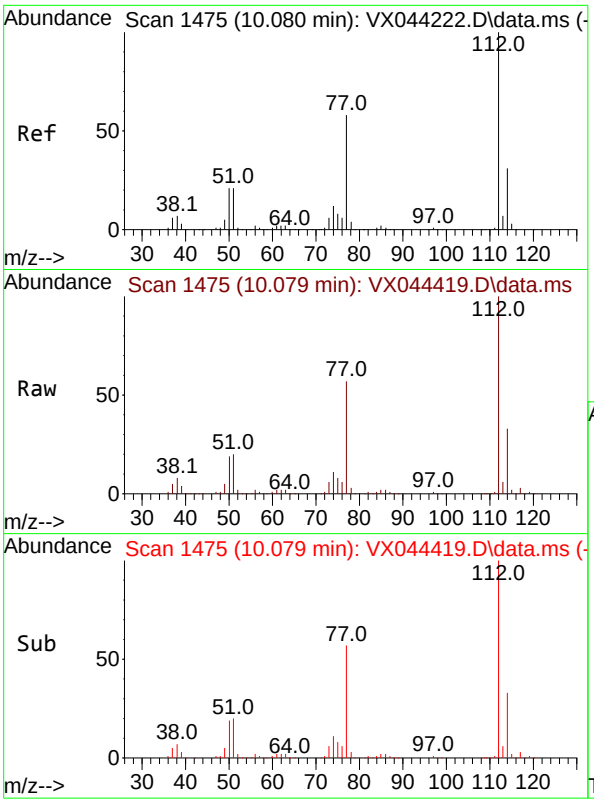


#64
Tetrachloroethene
Concen: 46.221 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:164 Resp: 58220

Ion	Ratio	Lower	Upper
164	100		
166	129.7	100.4	150.6
129	96.7	77.2	115.8
131	96.0	76.2	114.2



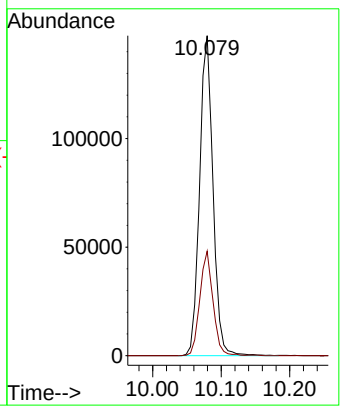


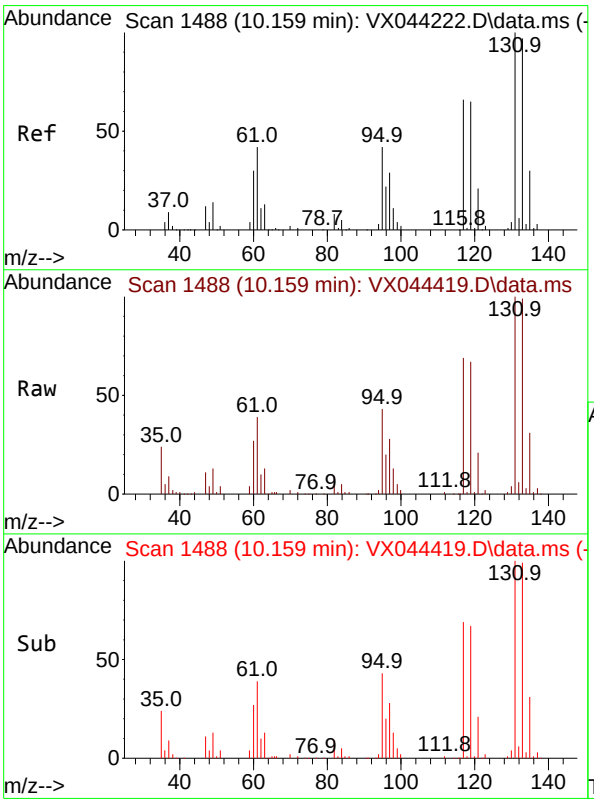
#65
Chlorobenzene
Concen: 49.379 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 200803

Ion	Ratio	Lower	Upper
112	100		
114	32.7	25.0	37.6

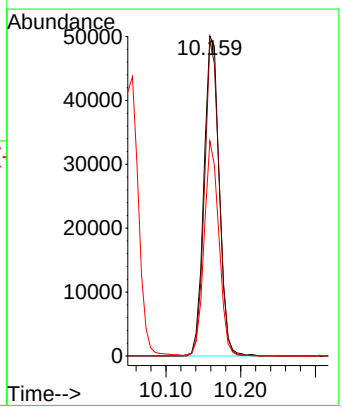


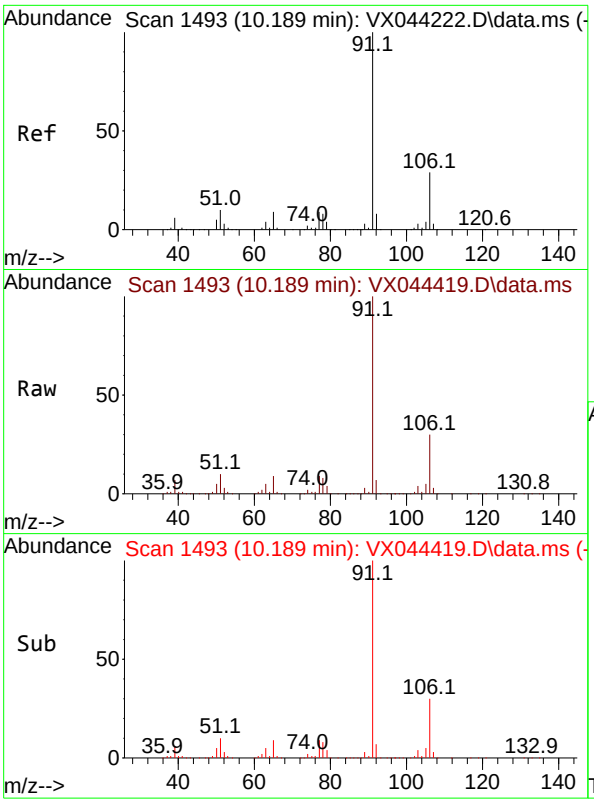


#66
1,1,1,2-Tetrachloroethane
Concen: 54.398 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:131 Resp: 71094

Ion	Ratio	Lower	Upper
131	100		
133	94.3	47.3	141.8
119	64.9	31.6	95.0



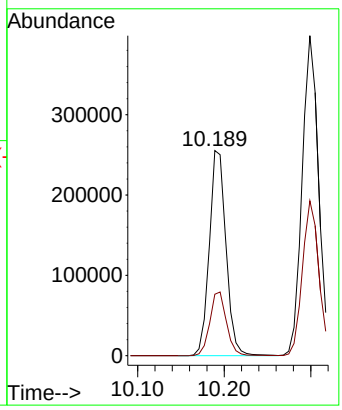


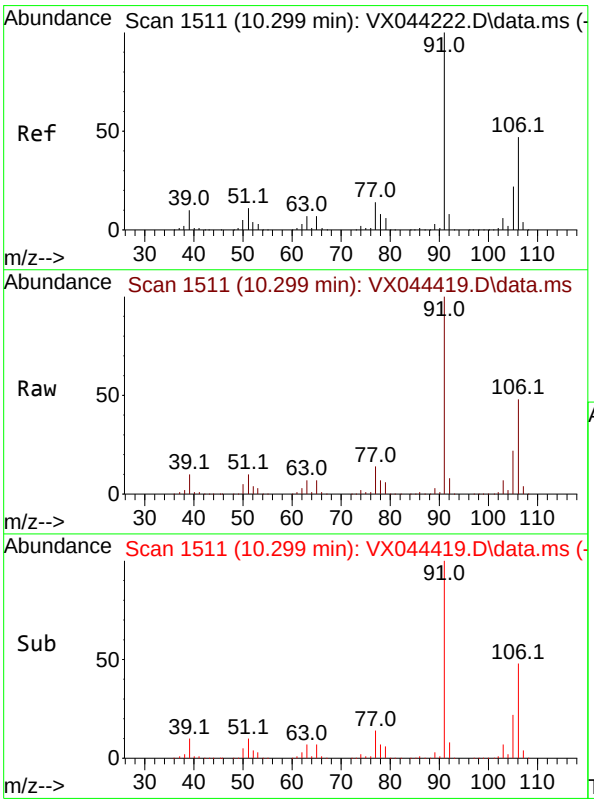
#67
Ethyl Benzene
Concen: 48.644 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 341788

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.5	35.3

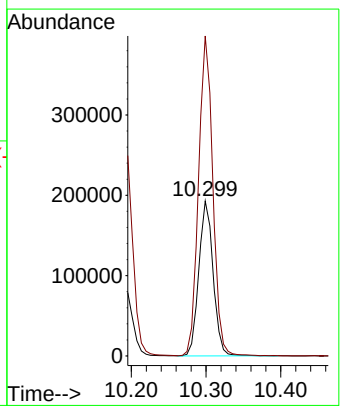


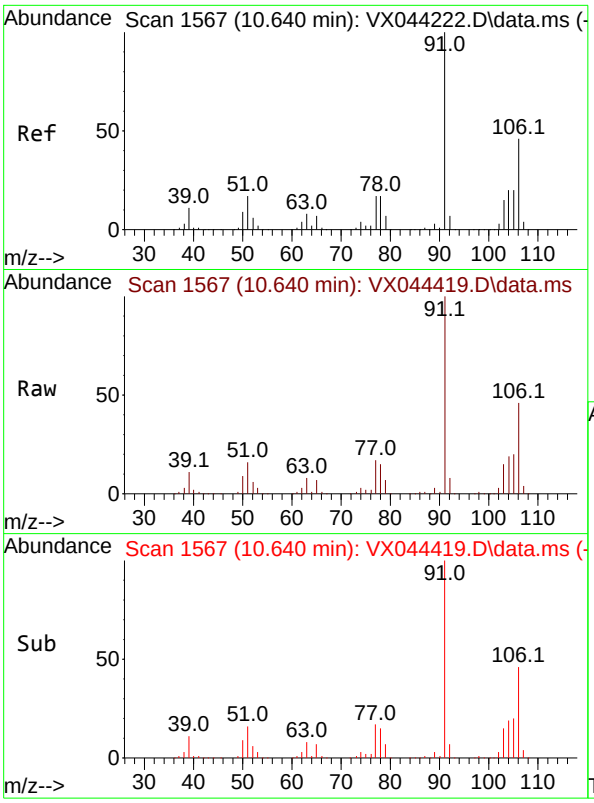


#68
m/p-Xylenes
Concen: 99.414 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:106 Resp: 256314

Ion	Ratio	Lower	Upper
106	100		
91	206.5	170.2	255.2



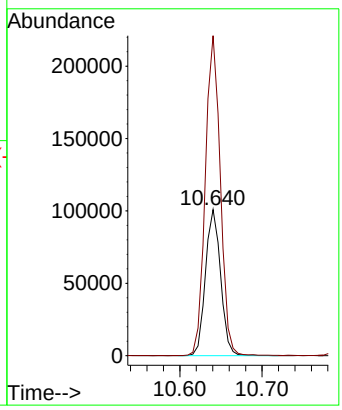


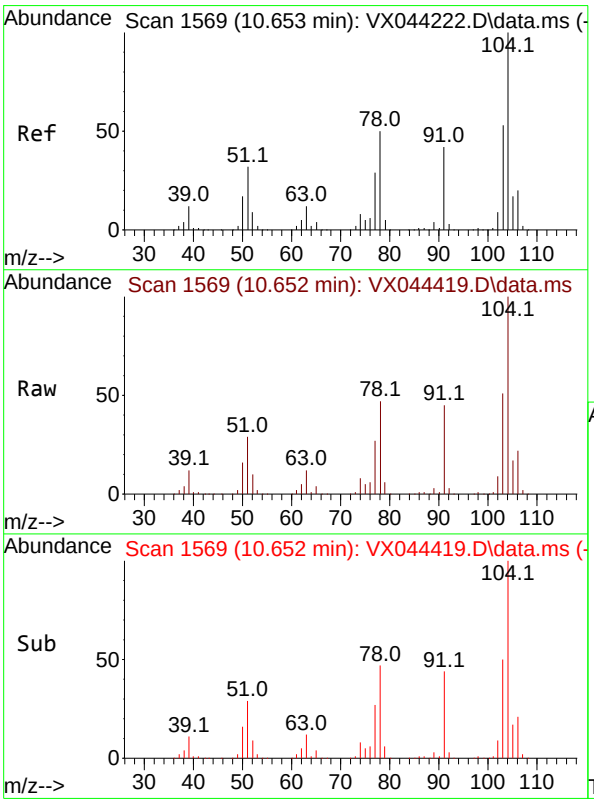
#69
o-Xylene
Concen: 49.398 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 128864

Ion	Ratio	Lower	Upper
106	100		
91	218.0	112.3	337.0

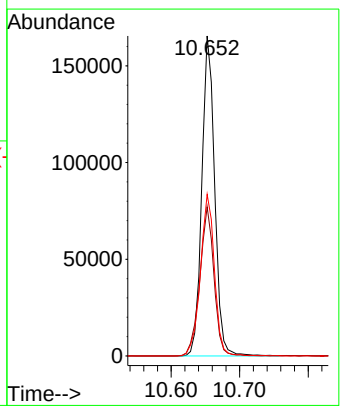


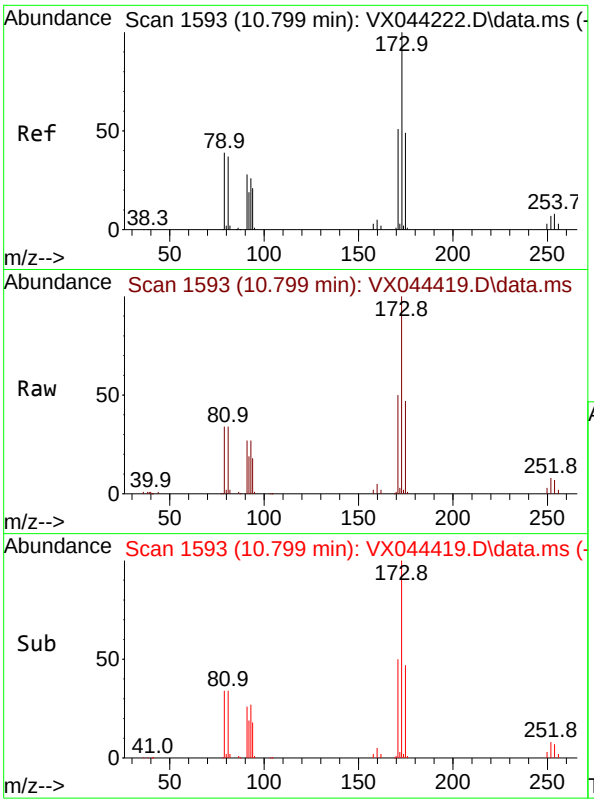


#70
Styrene
Concen: 51.842 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:104 Resp: 216799

Ion	Ratio	Lower	Upper
104	100		
78	51.3	44.6	67.0
103	55.1	45.4	68.0



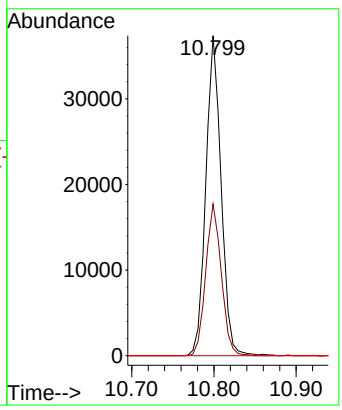


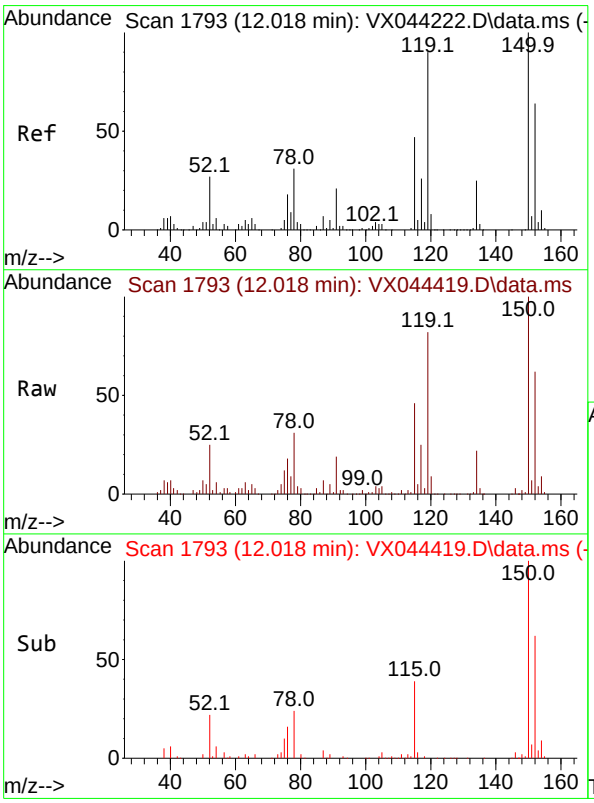
#71
Bromoform
Concen: 52.457 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 48213

Ion	Ratio	Lower	Upper
173	100		
175	48.4	23.8	71.4
254	0.0	0.0	0.0

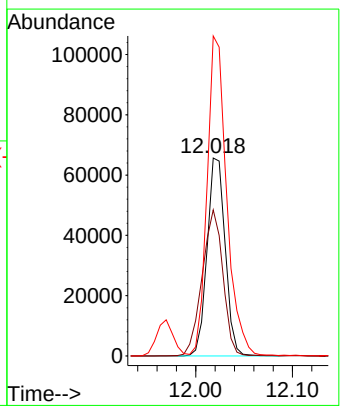


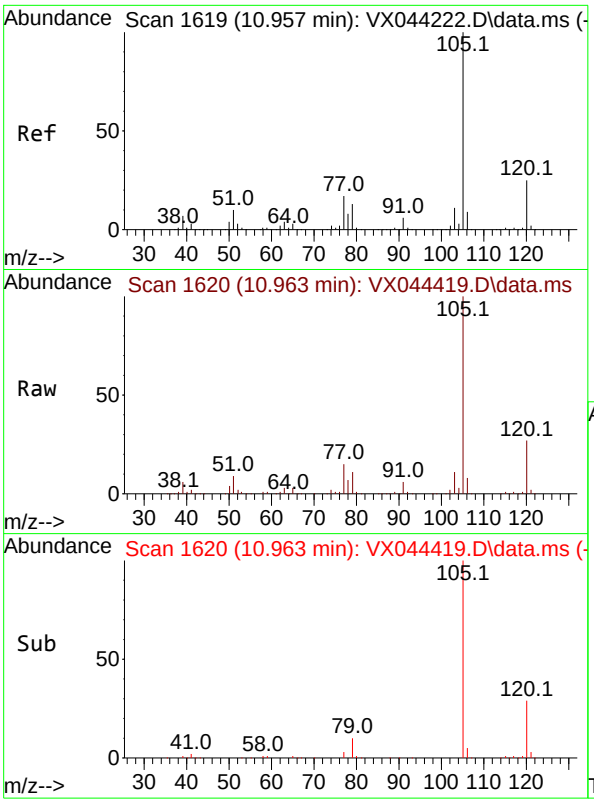


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:152 Resp: 85459

Ion	Ratio	Lower	Upper
152	100		
115	84.8	44.5	133.3
150	174.3	0.0	353.8



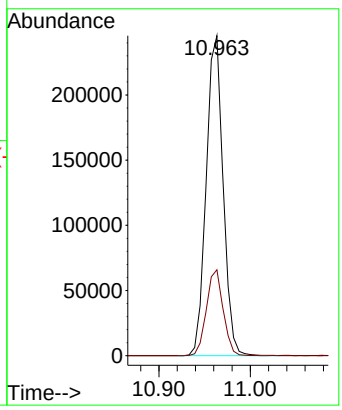


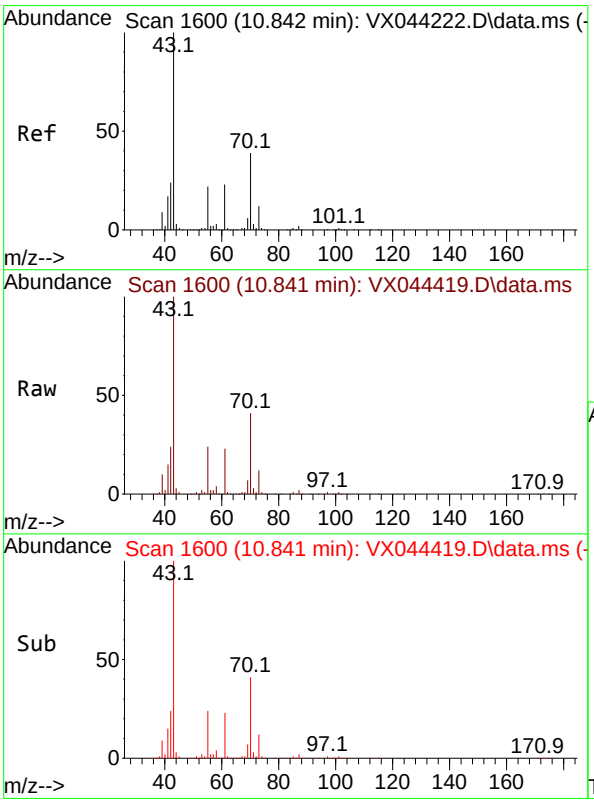
#73
Isopropylbenzene
Concen: 48.052 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 314366

Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.1	39.3

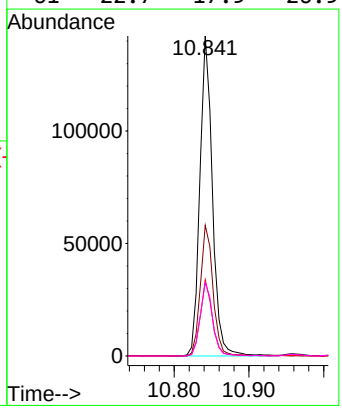


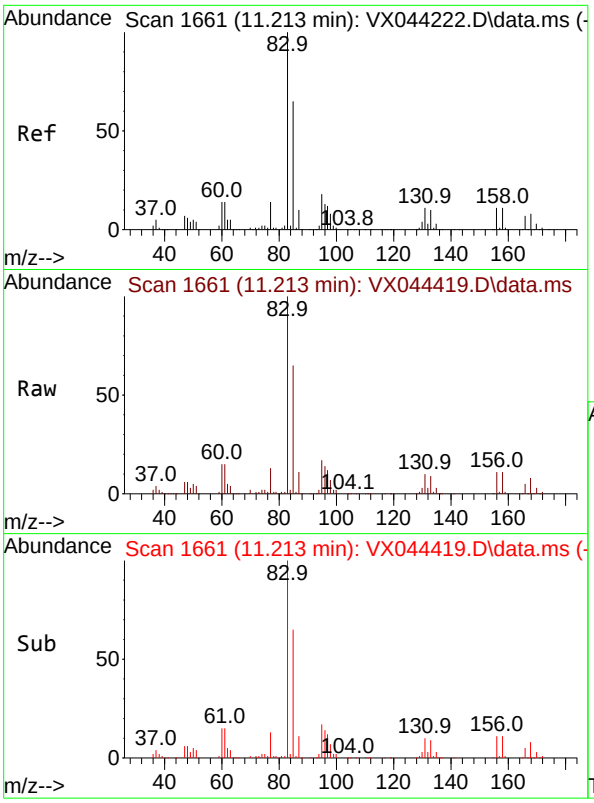


#74
N-amyl acetate
Concen: 55.002 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 43 Resp: 166301

Ion	Ratio	Lower	Upper
43	100		
70	41.3	31.9	47.9
55	22.9	17.9	26.9
61	22.7	17.9	26.9



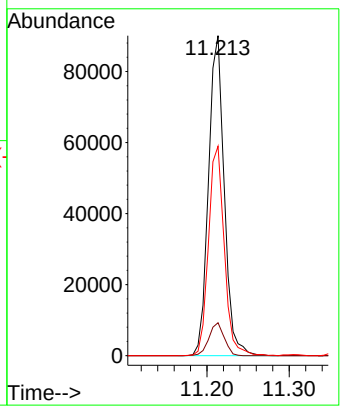


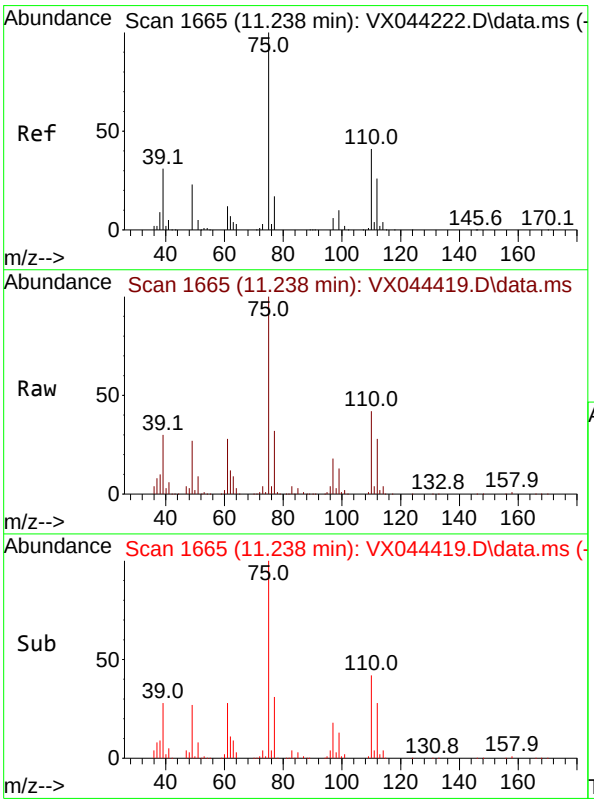
#75
1,1,2,2-Tetrachloroethane
Concen: 52.663 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 119667

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.4
85	65.5	32.5	97.4

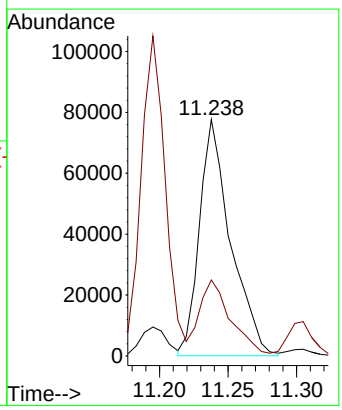


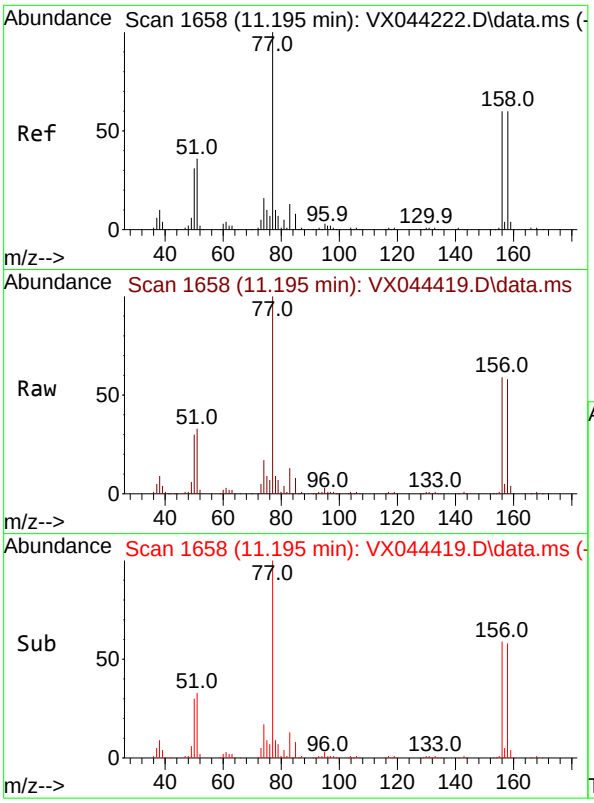


#76
1,2,3-Trichloropropane
Concen: 64.495 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 75 Resp: 123063

Ion	Ratio	Lower	Upper
75	100		
77	32.4	20.9	62.7



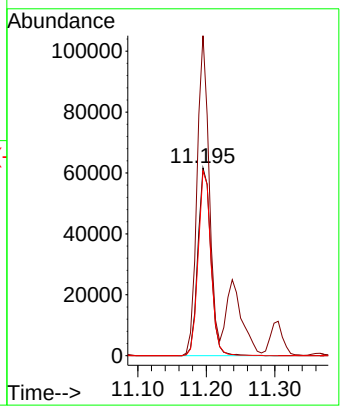


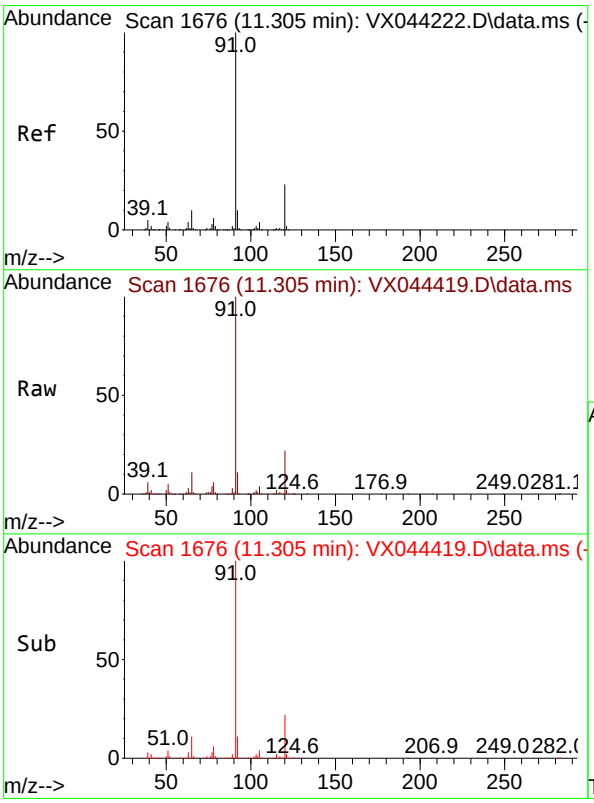
#77
Bromobenzene
Concen: 51.162 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 81167

Ion	Ratio	Lower	Upper
156	100		
77	160.0	82.6	247.8
158	96.8	48.8	146.4

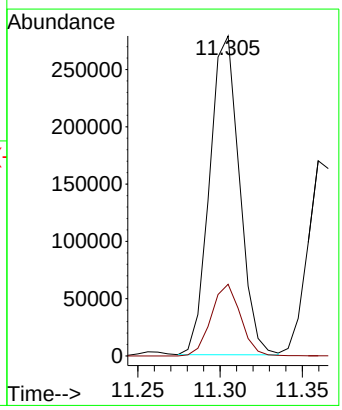


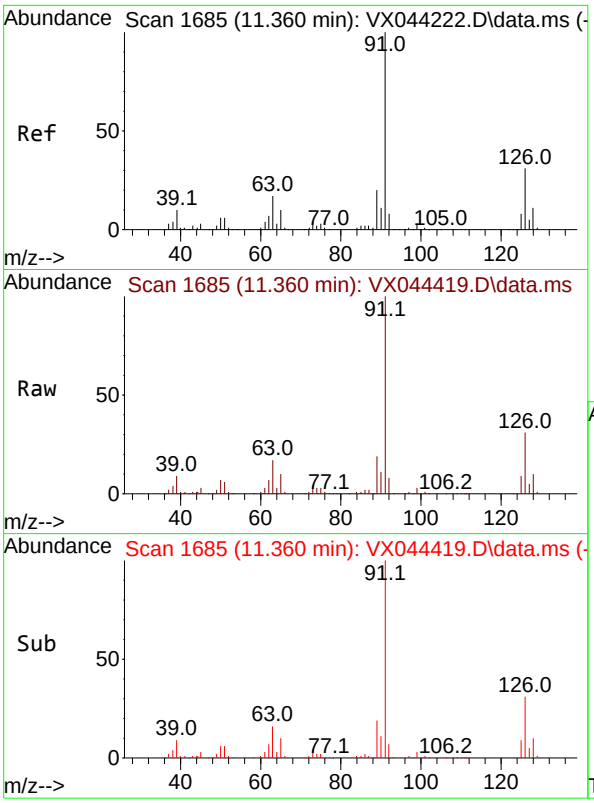


#78
n-propylbenzene
Concen: 48.614 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 91 Resp: 351524

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.0	33.0



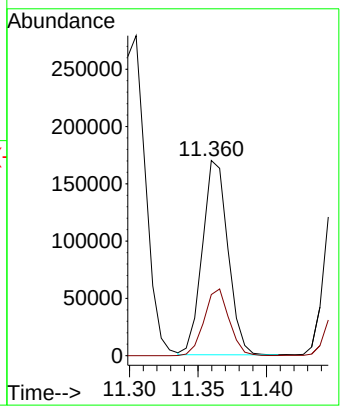


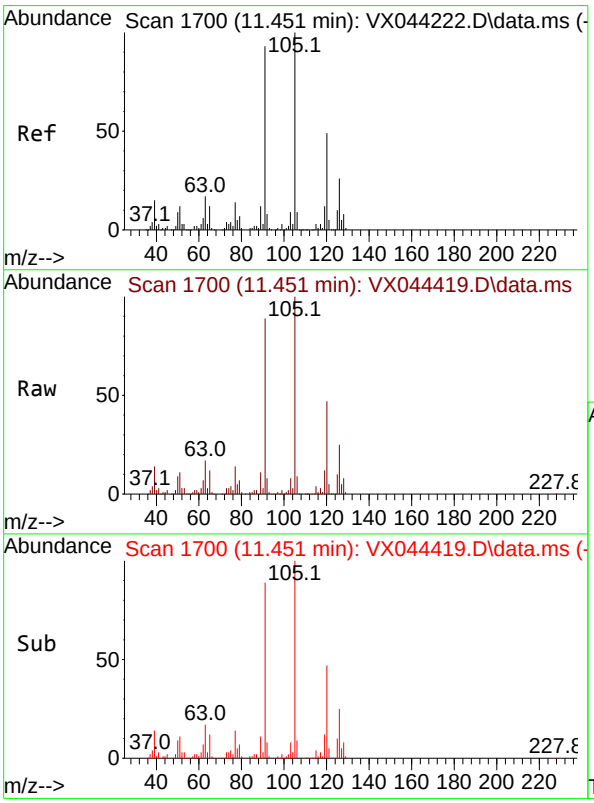
#79
2-Chlorotoluene
Concen: 47.194 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 220699

Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.4	49.1

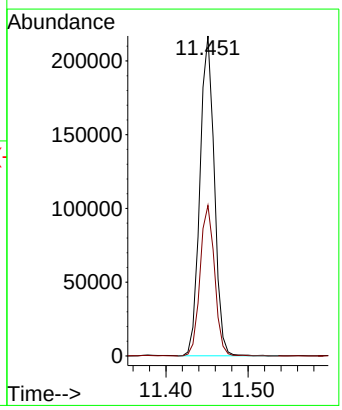


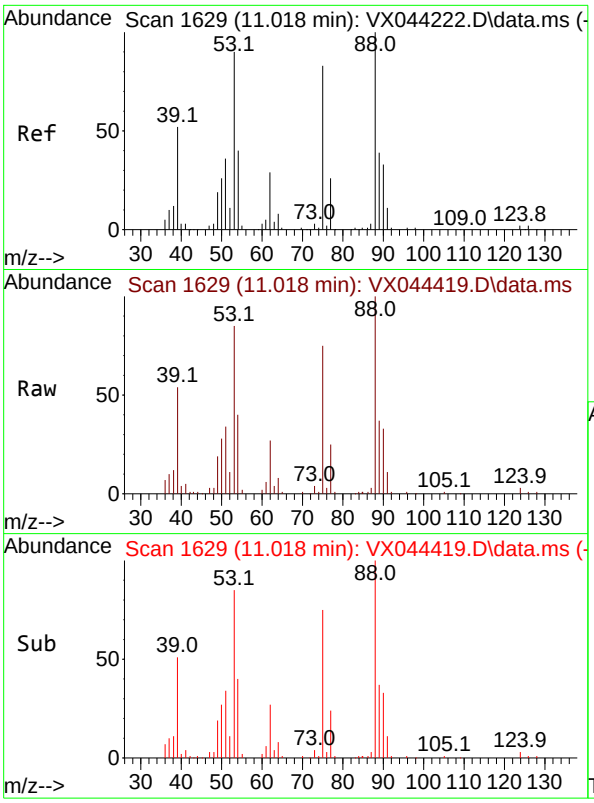


#80
1,3,5-Trimethylbenzene
Concen: 48.573 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:105 Resp: 263525

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.4



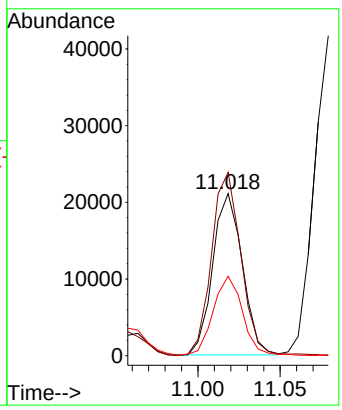


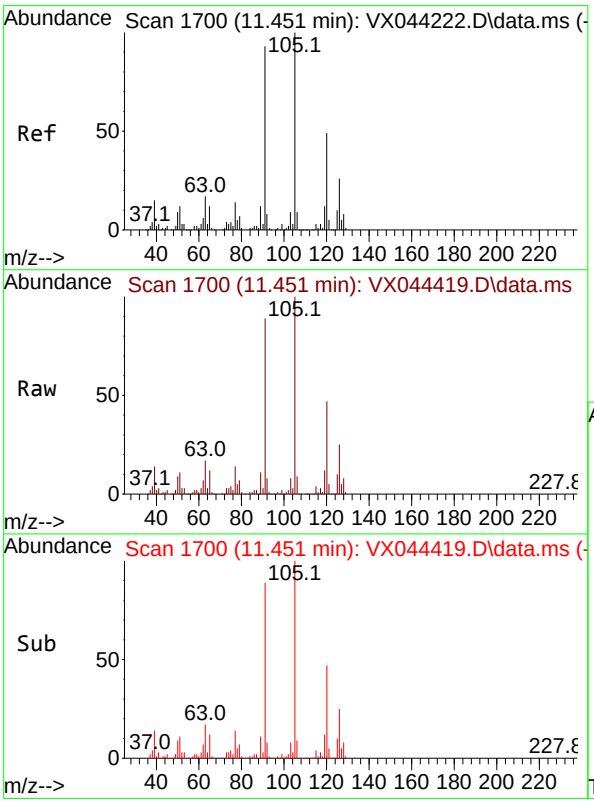
#81
trans-1,4-Dichloro-2-butene
Concen: 40.690 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 26316

Ion	Ratio	Lower	Upper
75	100		
53	114.4	93.6	140.4
89	49.3	37.3	55.9

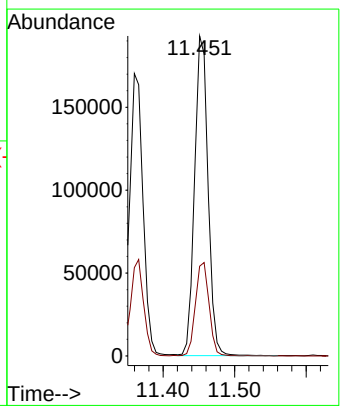


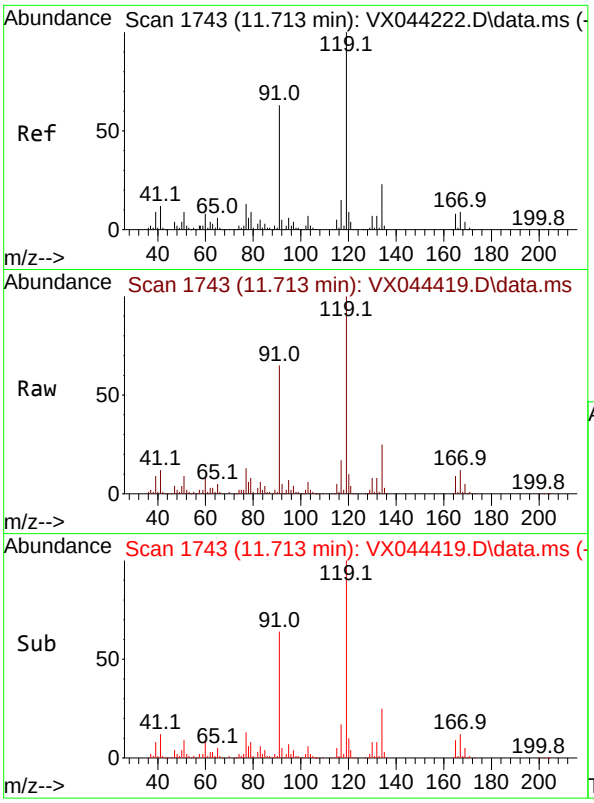


#82
4-Chlorotoluene
Concen: 48.639 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 91 Resp: 251878

Ion	Ratio	Lower	Upper
91	100		
126	29.5	14.5	43.5



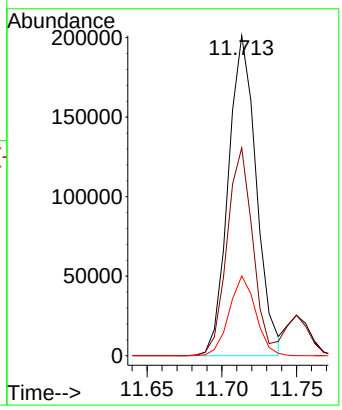


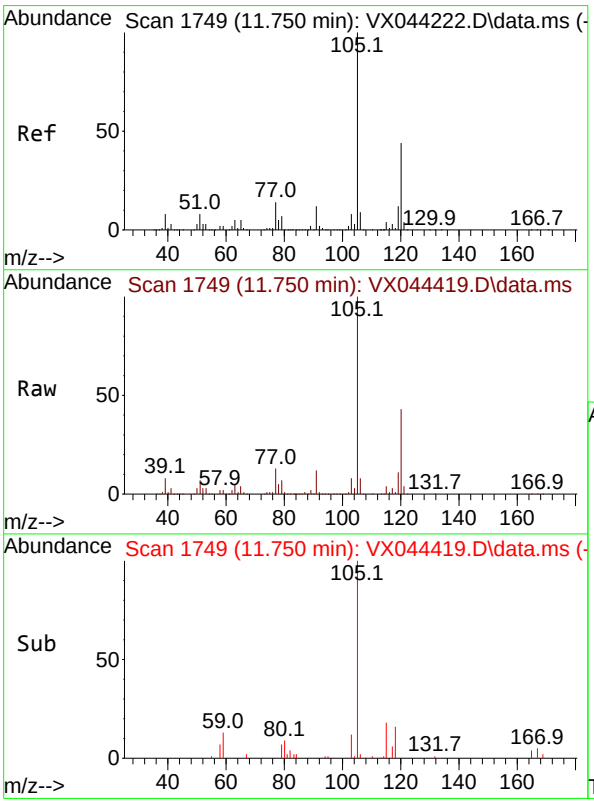
#83
tert-Butylbenzene
Concen: 48.951 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 262462

Ion	Ratio	Lower	Upper
119	100		
91	60.4	30.9	92.5
134	23.5	11.5	34.4

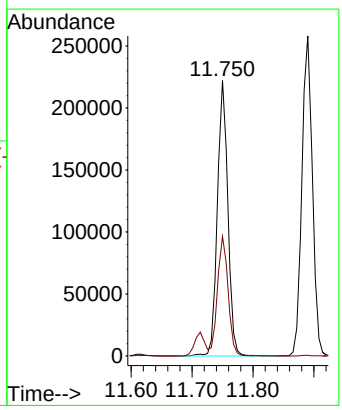


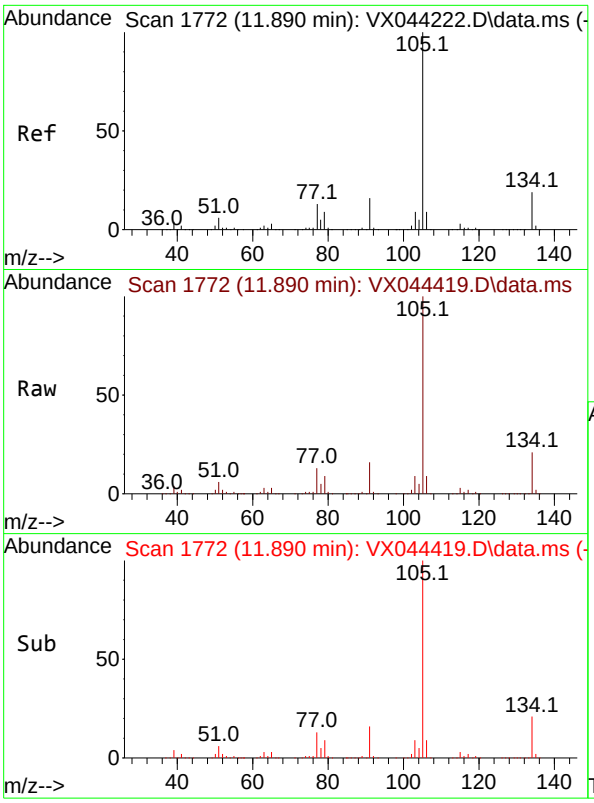


#84
1,2,4-Trimethylbenzene
Concen: 49.728 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:105 Resp: 264960

Ion	Ratio	Lower	Upper
105	100		
120	44.3	21.7	65.1



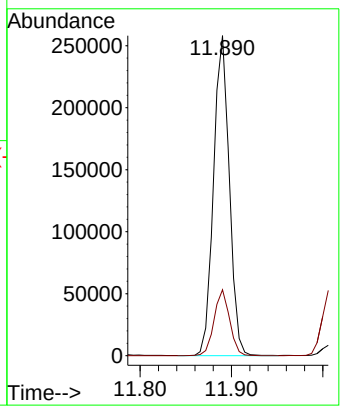


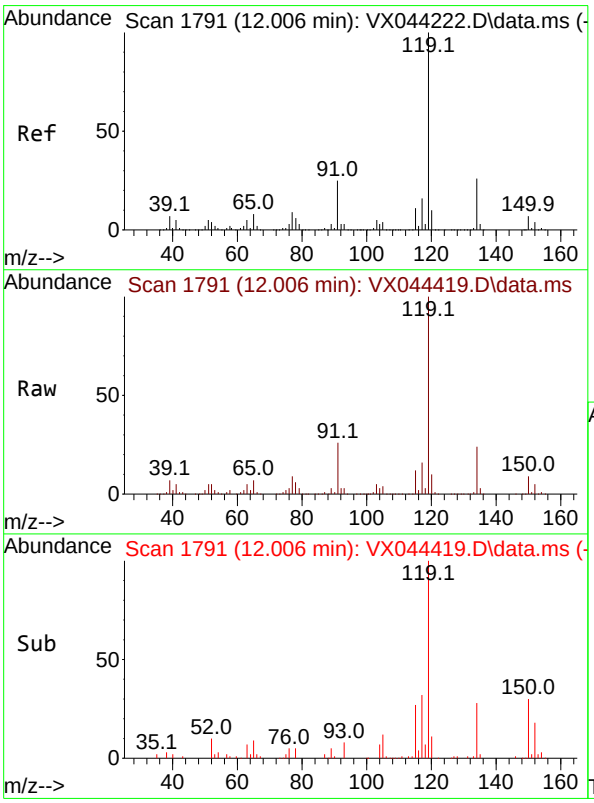
#85
sec-Butylbenzene
Concen: 47.411 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 308602

Ion	Ratio	Lower	Upper
105	100		
134	20.3	9.8	29.4

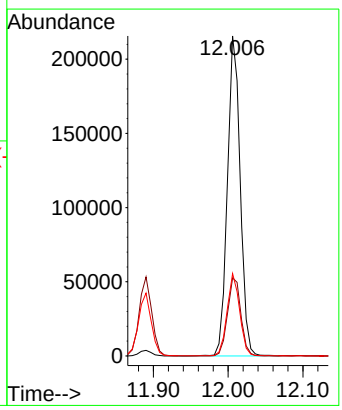


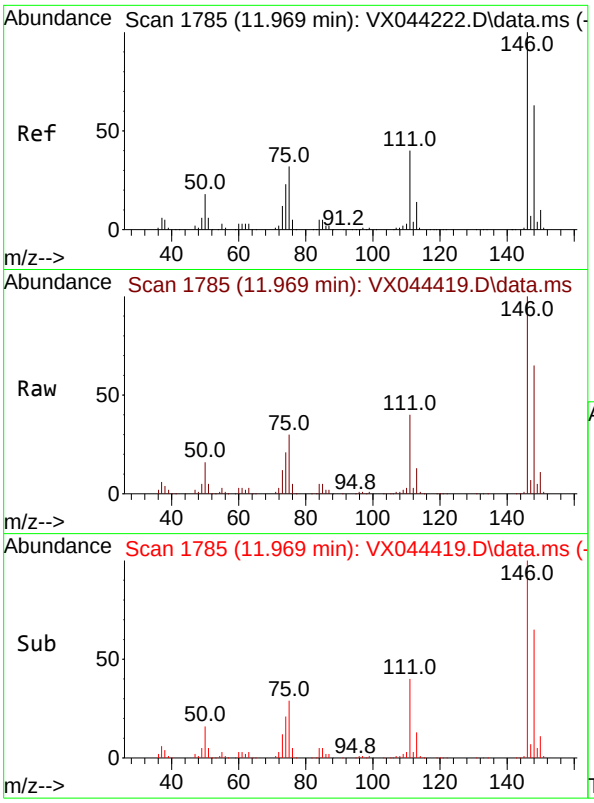


#86
p-Isopropyltoluene
Concen: 47.558 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:119 Resp: 257648

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.8	38.4
91	25.0	13.0	39.0



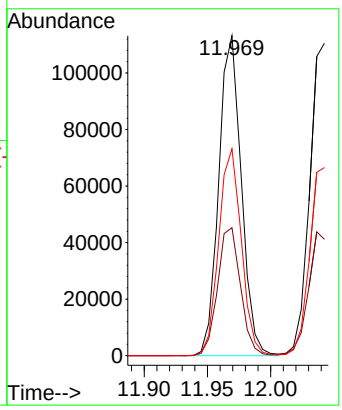


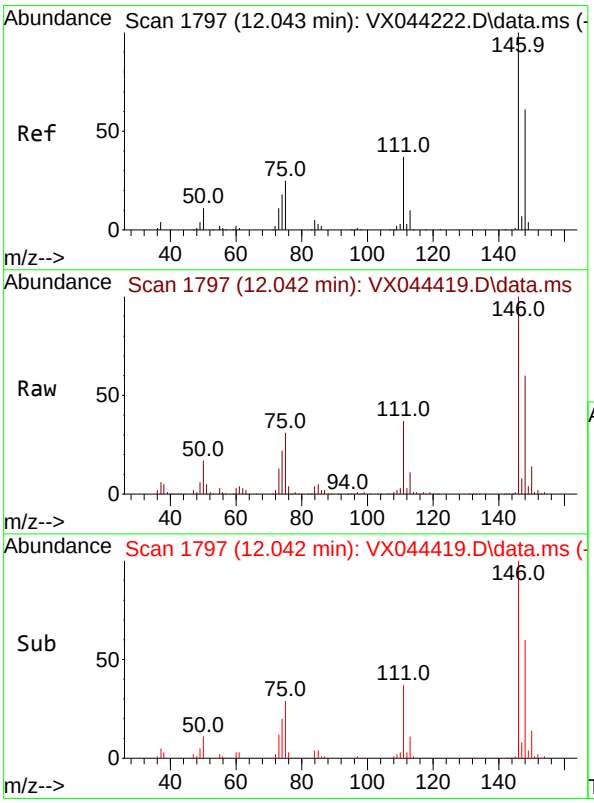
#87
1,3-Dichlorobenzene
Concen: 50.634 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 140315

Ion	Ratio	Lower	Upper
146	100		
111	40.8	21.4	64.2
148	64.8	31.7	95.1

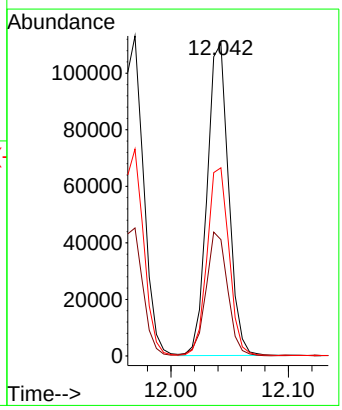


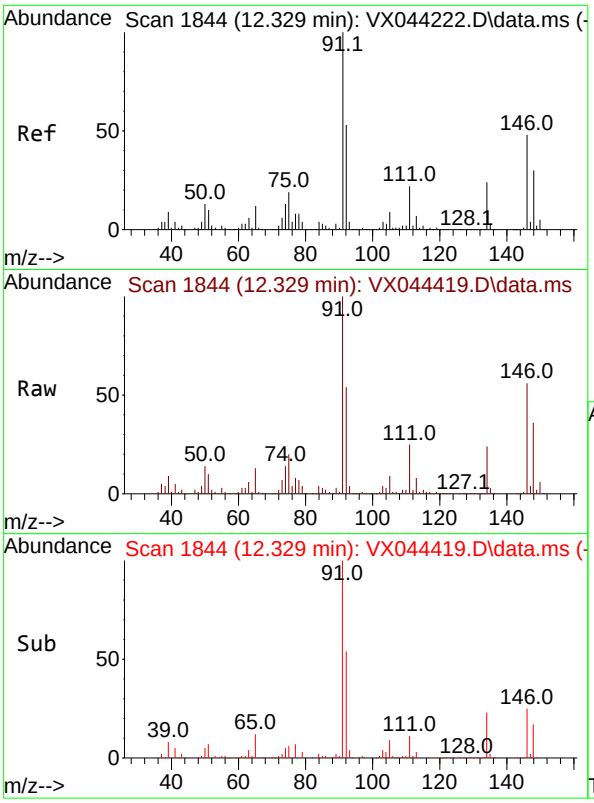


#88
1,4-Dichlorobenzene
Concen: 49.148 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:146 Resp: 140008

Ion	Ratio	Lower	Upper
146	100		
111	40.1	21.0	63.0
148	62.5	32.3	96.8



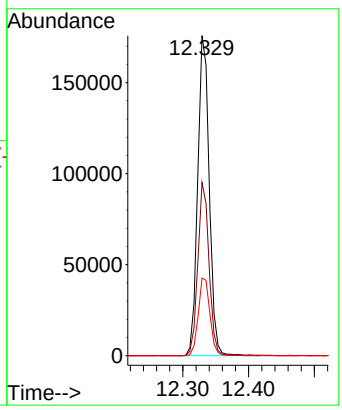


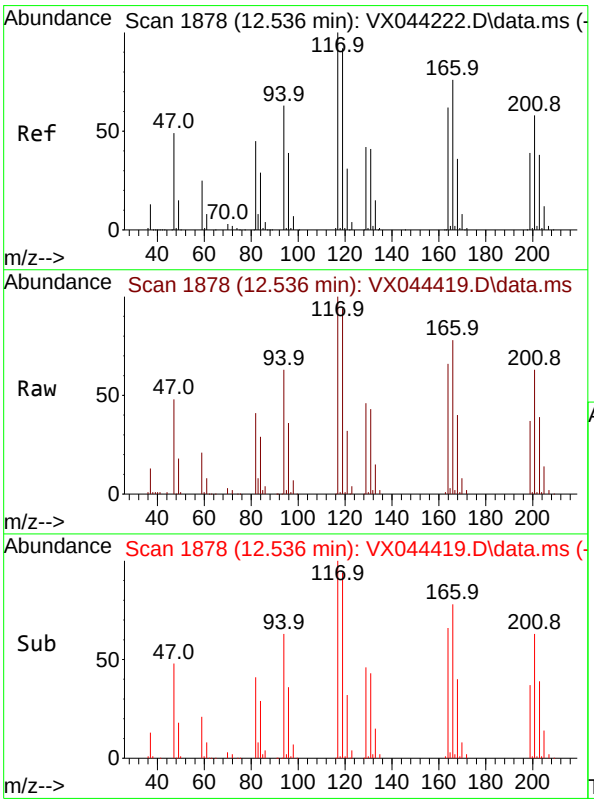
#89
n-Butylbenzene
Concen: 47.053 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 ...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 214353

Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.6	79.7
134	24.5	12.6	37.8

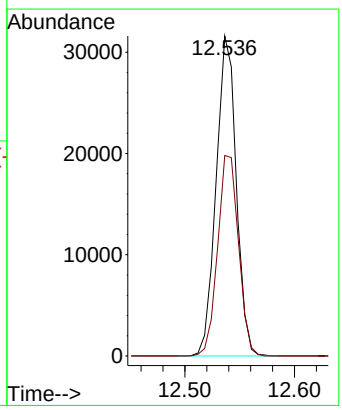


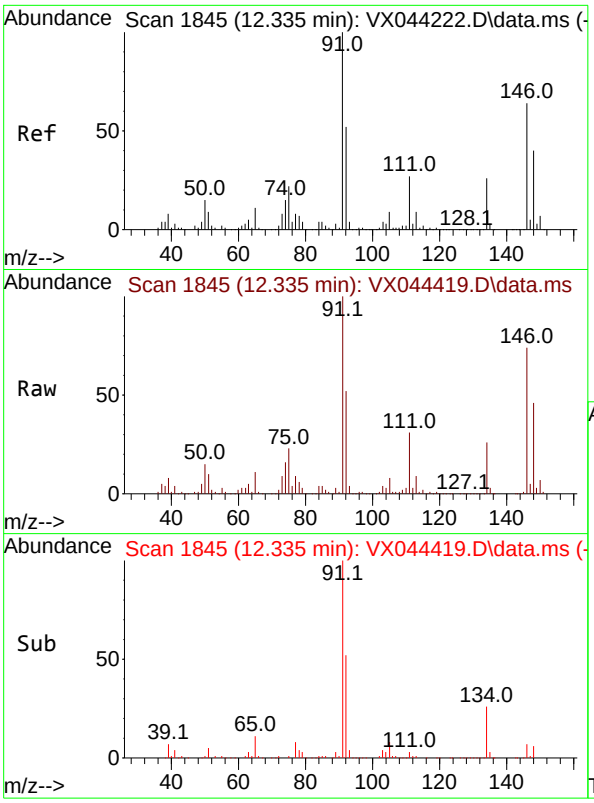


#90
Hexachloroethane
Concen: 51.057 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:117 Resp: 40378

Ion	Ratio	Lower	Upper
117	100		
201	65.2	31.4	94.2



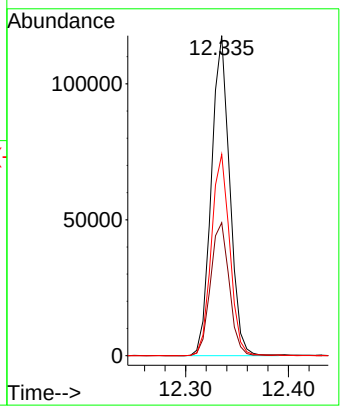


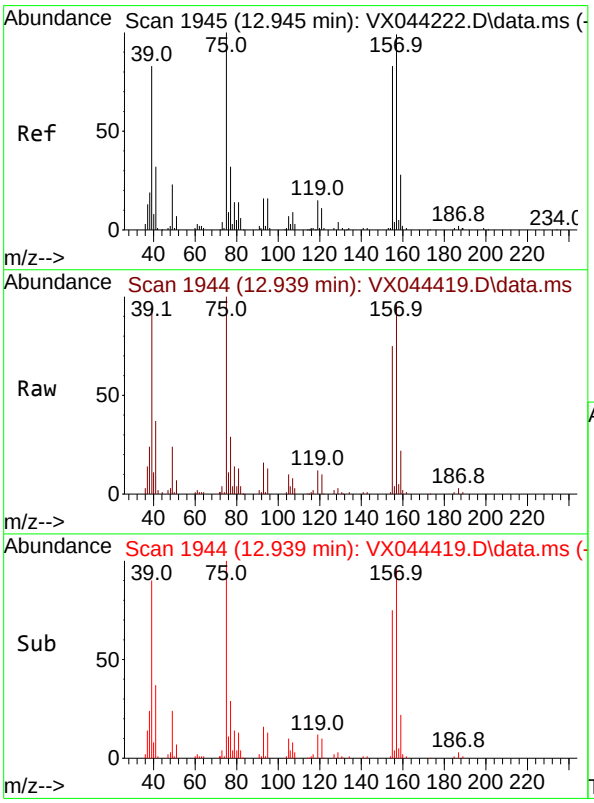
#91
1,2-Dichlorobenzene
Concen: 50.596 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a...

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 145586

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.4	64.3
148	63.2	31.6	95.0

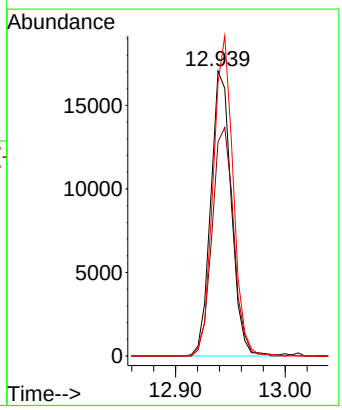


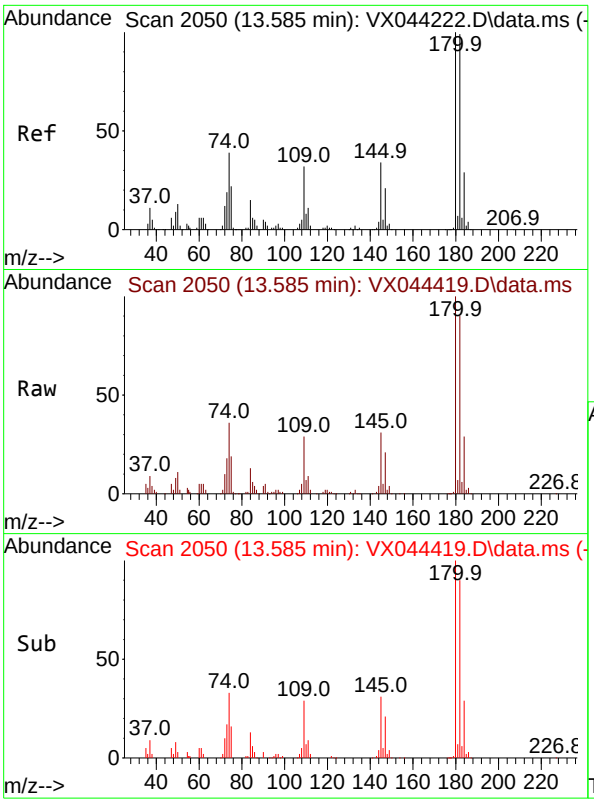


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.364 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion: 75 Resp: 22216

Ion	Ratio	Lower	Upper
75	100		
155	83.9	38.1	114.3
157	109.0	47.2	141.6



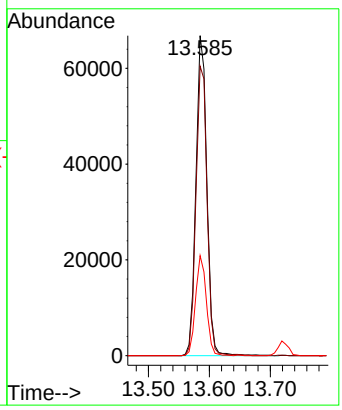


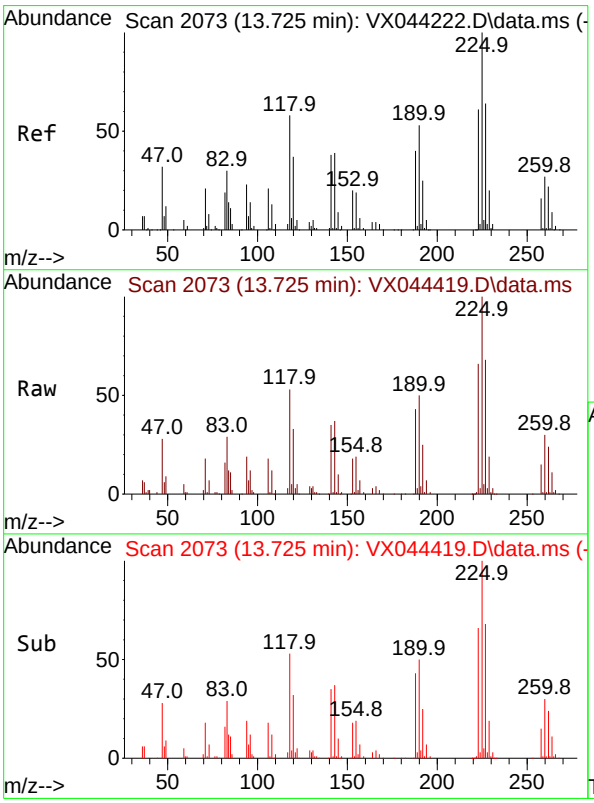
#93
1,2,4-Trichlorobenzene
Concen: 52.638 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 83037

Ion	Ratio	Lower	Upper
180	100		
182	91.4	48.0	144.2
145	30.9	16.6	49.7

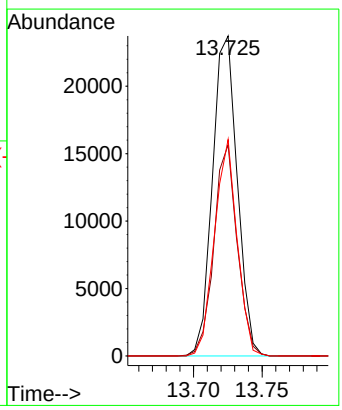


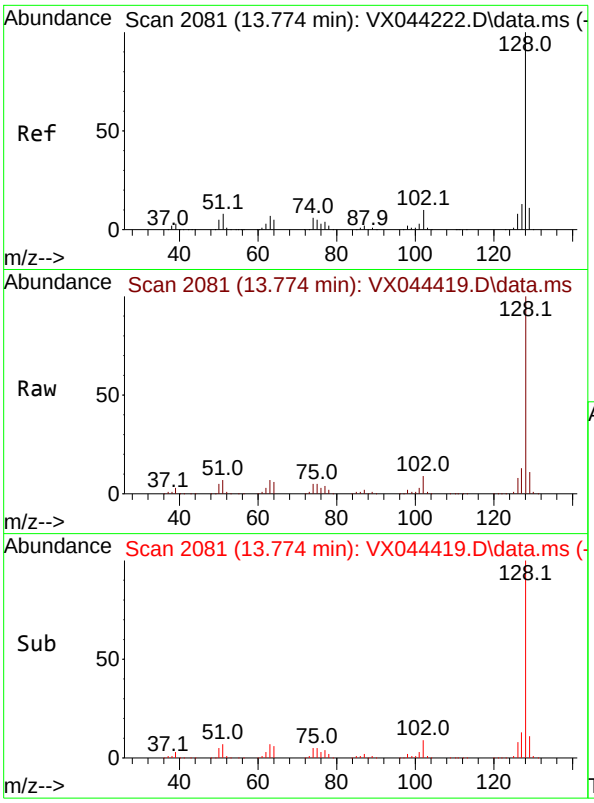


#94
Hexachlorobutadiene
Concen: 47.098 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:225 Resp: 29885

Ion	Ratio	Lower	Upper
225	100		
223	62.1	30.8	92.4
227	61.8	32.1	96.3



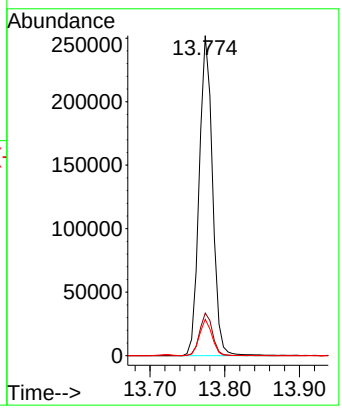


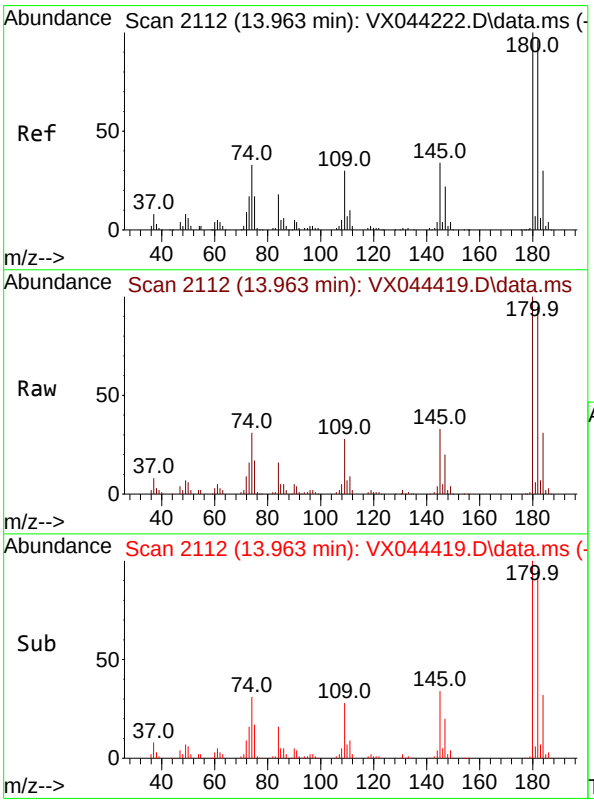
#95
Naphthalene
Concen: 50.581 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 a

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 311462

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.8	9.0	13.4

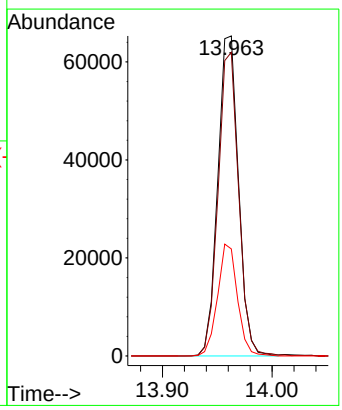




#96
1,2,3-Trichlorobenzene
Concen: 51.233 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044419.D
Acq: 19 Dec 2024 07:14 am

Tgt Ion:180 Resp: 85722

Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.0	144.0
145	33.7	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	136445	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	226018	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	197543	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95339	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	114063	47.679	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.360%			
35) Dibromofluoromethane	5.379	113	88578	56.586	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.180%			
50) Toluene-d8	8.647	98	297779	56.385	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 112.780%			
62) 4-Bromofluorobenzene	11.079	95	102676	55.640	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.280%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	116500	55.219	ug/l	95
3) Chloromethane	1.294	50	106640	52.856	ug/l	99
4) Vinyl Chloride	1.374	62	108930	51.825	ug/l	96
5) Bromomethane	1.593	94	72530	48.640	ug/l	100
6) Chloroethane	1.666	64	64589	49.350	ug/l	100
7) Trichlorofluoromethane	1.867	101	202222	49.144	ug/l	98
8) Diethyl Ether	2.136	74	65414	46.573	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	92304	55.436	ug/l	97
10) Methyl Iodide	2.441	142	117927	53.737	ug/l	96
11) Tert butyl alcohol	2.995	59	69873	207.237	ug/l	99
12) 1,1-Dichloroethene	2.306	96	85110	55.650	ug/l	93
13) Acrolein	2.239	56	105437	216.034	ug/l	99
14) Allyl chloride	2.654	41	131432	51.595	ug/l	96
15) Acrylonitrile	3.069	53	228880	245.064	ug/l	99
16) Acetone	2.386	43	198245	203.262	ug/l	97
17) Carbon Disulfide	2.502	76	150886	51.902	ug/l	100
18) Methyl Acetate	2.703	43	122242	48.611	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	285547	47.845	ug/l	98
20) Methylene Chloride	2.782	84	94061	51.347	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	85292	52.474	ug/l	96
22) Diisopropyl ether	3.764	45	281255	49.031	ug/l	95
23) Vinyl Acetate	3.721	43	1209209	259.287	ug/l	99
24) 1,1-Dichloroethane	3.605	63	164103	51.322	ug/l	98
25) 2-Butanone	4.562	43	312065	225.066	ug/l	97
26) 2,2-Dichloropropane	4.471	77	135023	51.979	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	103072	49.931	ug/l	97
28) Bromochloromethane	4.891	49	75463	48.128	ug/l	100
29) Tetrahydrofuran	5.001	42	202559	227.599	ug/l	99
30) Chloroform	5.086	83	172568	48.035	ug/l	98
31) Cyclohexane	5.458	56	136432	52.839	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	149993	50.298	ug/l	99
36) 1,1-Dichloropropene	5.684	75	111706	55.205	ug/l	98
37) Ethyl Acetate	4.715	43	125607	50.217	ug/l	99
38) Carbon Tetrachloride	5.672	117	120478	55.304	ug/l	96
39) Methylcyclohexane	7.373	83	146379	60.512	ug/l	97
40) Benzene	6.031	78	345635	56.259	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	66821	50.310	ug/l		96
42) 1,2-Dichloroethane	6.080	62	132516	52.362	ug/l		97
43) Isopropyl Acetate	6.342	43	199677	51.076	ug/l		98
44) Trichloroethene	7.117	130	87763	57.285	ug/l		98
45) 1,2-Dichloropropane	7.427	63	83393	53.131	ug/l		98
46) Dibromomethane	7.580	93	67796	55.676	ug/l		95
47) Bromodichloromethane	7.818	83	118614	56.402	ug/l		100
48) Methyl methacrylate	7.690	41	94040	49.554	ug/l		95
49) 1,4-Dioxane	7.665	88	28510	906.120	ug/l	#	82
51) 4-Methyl-2-Pentanone	8.574	43	647258	257.494	ug/l		99
52) Toluene	8.714	92	208798	54.120	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	116841	51.640	ug/l		95
54) cis-1,3-Dichloropropene	8.360	75	130320	56.913	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	84487	55.124	ug/l		98
56) Ethyl methacrylate	9.116	69	130175	53.800	ug/l		98
57) 1,3-Dichloropropane	9.305	76	143590	53.824	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	307620	252.070	ug/l		99
59) 2-Hexanone	9.427	43	467347	256.860	ug/l		97
60) Dibromochloromethane	9.519	129	86207	52.901	ug/l		99
61) 1,2-Dibromoethane	9.604	107	86930	55.721	ug/l		99
64) Tetrachloroethene	9.269	164	74735	57.001	ug/l		96
65) Chlorobenzene	10.079	112	234513	55.402	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	77487	56.959	ug/l		98
67) Ethyl Benzene	10.189	91	401792	54.936	ug/l		99
68) m/p-Xylenes	10.299	106	308013	114.771	ug/l		94
69) o-Xylene	10.640	106	147688	54.389	ug/l		98
70) Styrene	10.653	104	251875	57.862	ug/l		96
71) Bromoform	10.799	173	52602	54.671	ug/l	#	98
73) Isopropylbenzene	10.957	105	390438	53.495	ug/l		100
74) N-amyl acetate	10.842	43	171638	50.885	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	132190	52.145	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	139014	65.305	ug/l		84
77) Bromobenzene	11.195	156	95489	53.953	ug/l		95
78) n-propylbenzene	11.299	91	441589	54.741	ug/l		98
79) 2-Chlorotoluene	11.360	91	267690	51.311	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	322510	53.284	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	35051	47.498	ug/l		98
82) 4-Chlorotoluene	11.451	91	305777	52.929	ug/l		99
83) tert-Butylbenzene	11.713	119	320615	53.600	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	327657	55.123	ug/l		98
85) sec-Butylbenzene	11.890	105	399310	54.989	ug/l		99
86) p-Isopropyltoluene	12.006	119	336593	55.691	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	172628	55.839	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	169778	53.422	ug/l		98
89) n-Butylbenzene	12.329	91	292244	57.503	ug/l		99
90) Hexachloroethane	12.536	117	50629	57.385	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	173478	54.042	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	24124	49.022	ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	104720	59.504	ug/l		100
94) Hexachlorobutadiene	13.725	225	43140	60.942	ug/l		97
95) Naphthalene	13.774	128	369385	53.772	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	108667	58.216	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

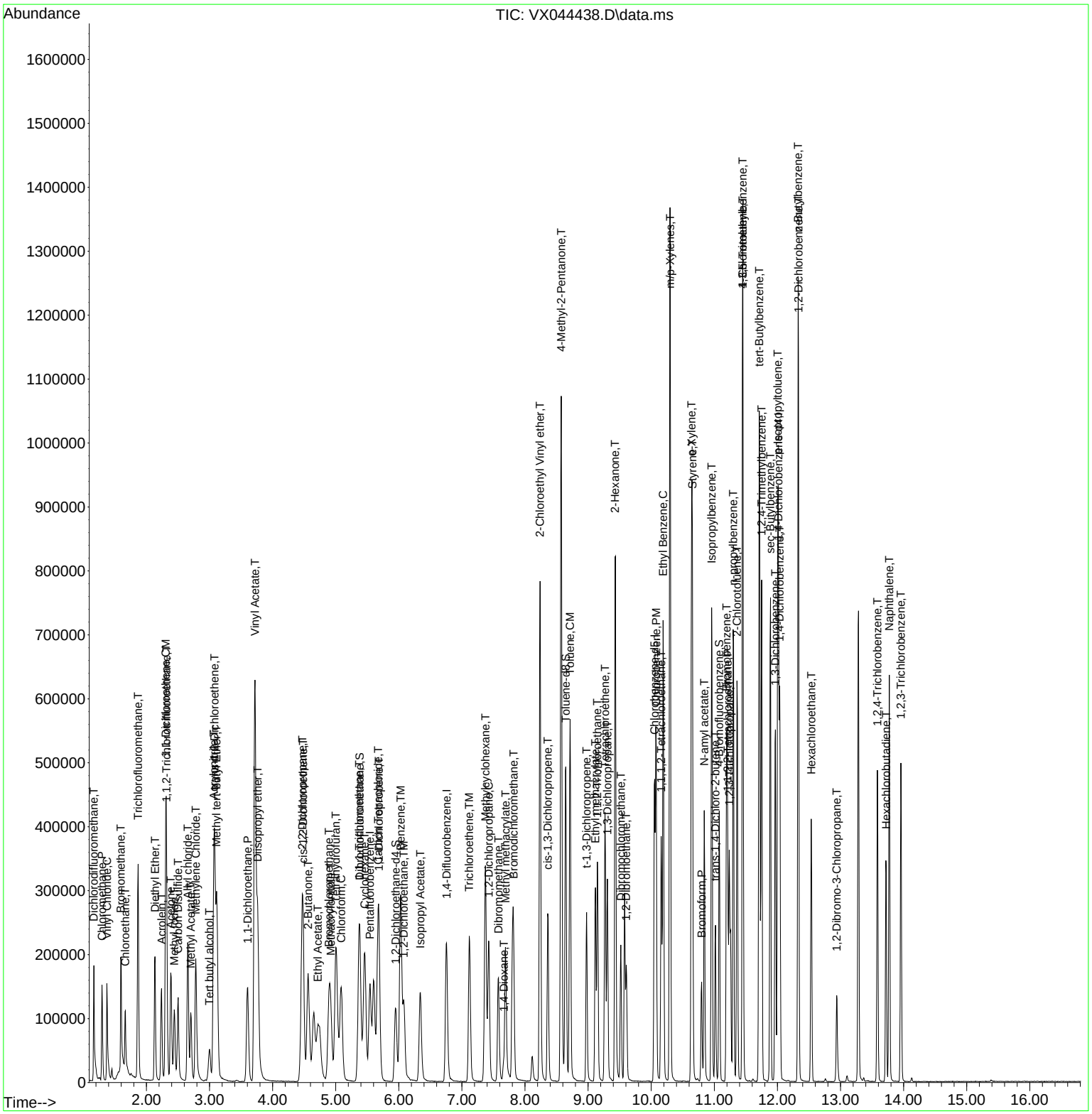
(#) = qualifier out of range (m) = manual integration (+) = signals summed

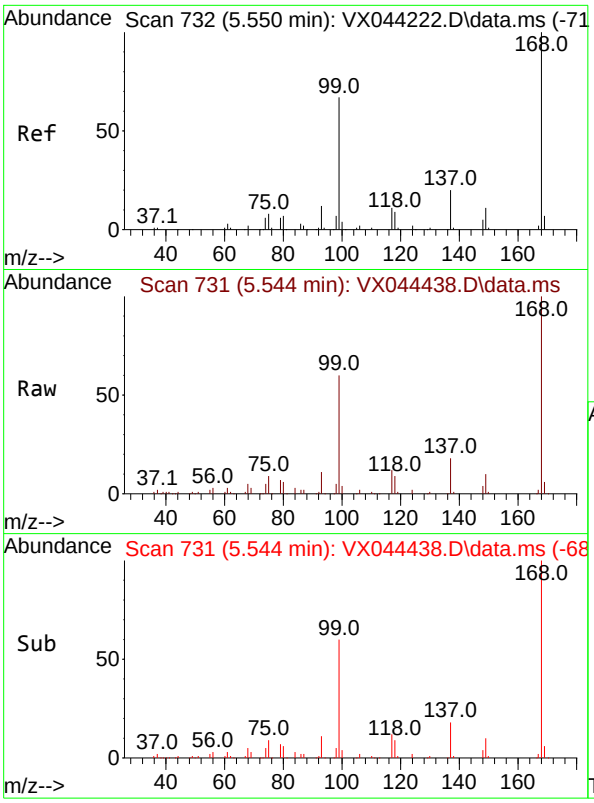
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



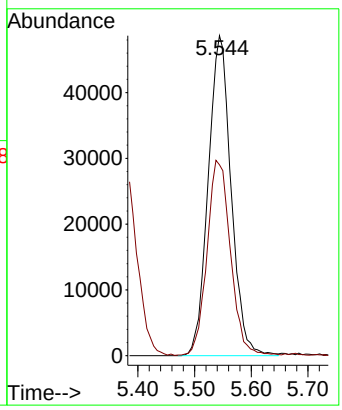


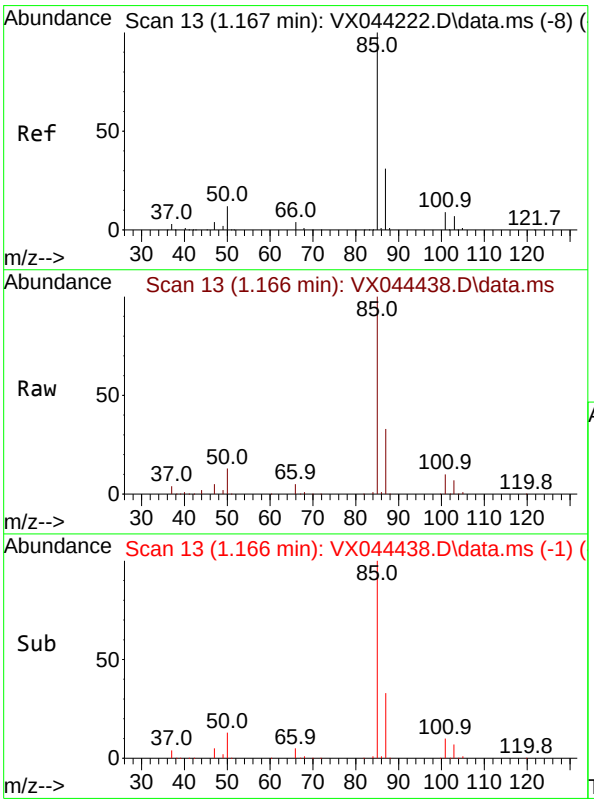
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 136445

Ion	Ratio	Lower	Upper
168	100		
99	59.5	53.4	80.0

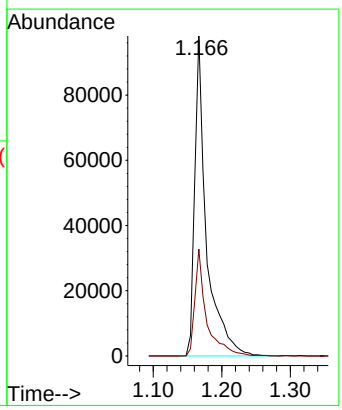


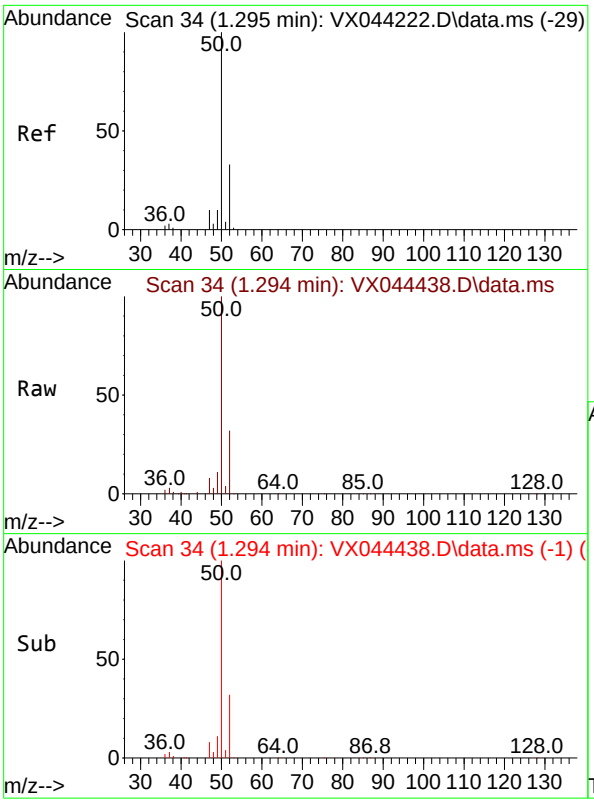


#2
Dichlorodifluoromethane
Concen: 55.219 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 85 Resp: 116500

Ion	Ratio	Lower	Upper
85	100		
87	33.4	15.4	46.4



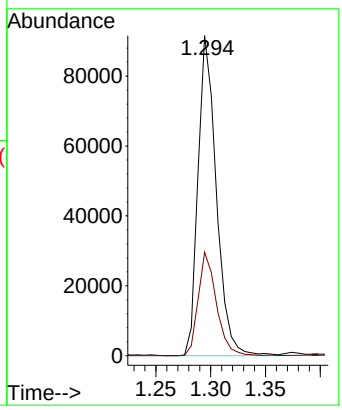


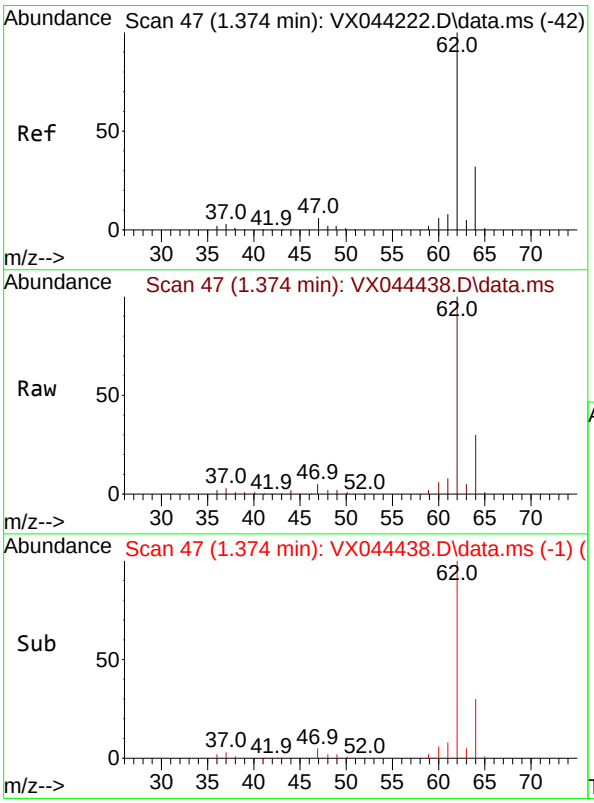
#3
Chloromethane
Concen: 52.856 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 106640

Ion	Ratio	Lower	Upper
50	100		
52	32.3	26.5	39.7

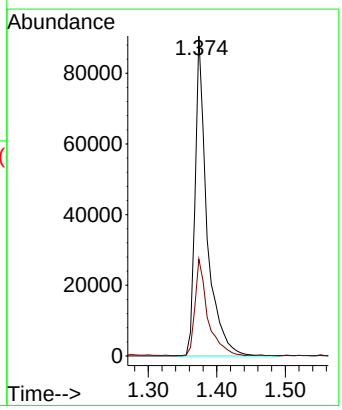


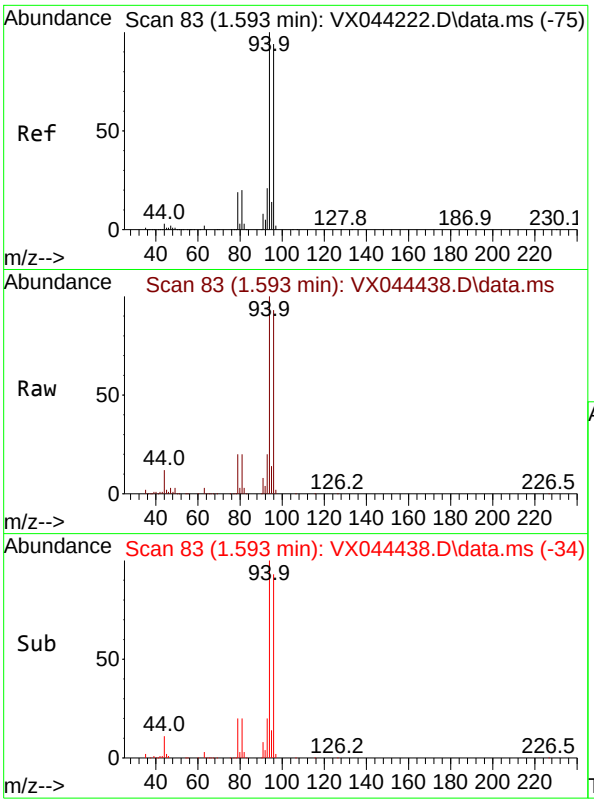


#4
Vinyl Chloride
Concen: 51.825 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 62 Resp: 108930

Ion	Ratio	Lower	Upper
62	100		
64	30.1	25.7	38.5



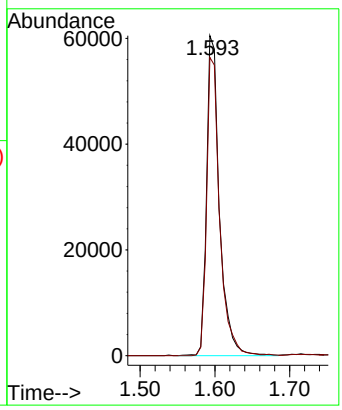


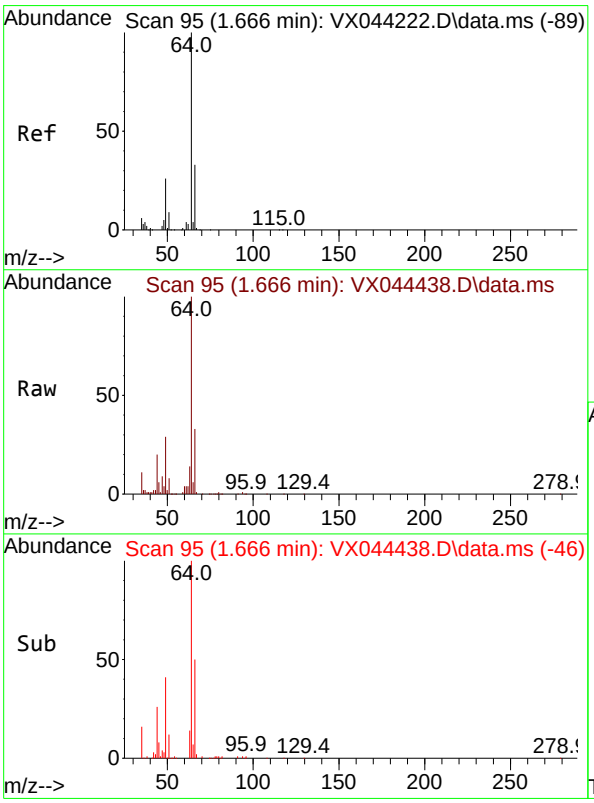
#5
Bromomethane
Concen: 48.640 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 72530

Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.9	112.3

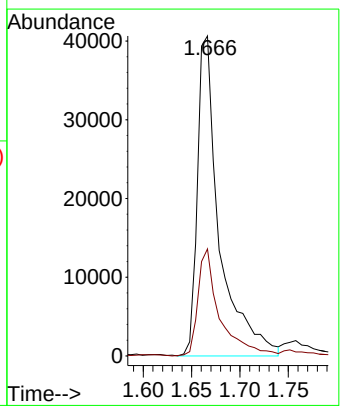


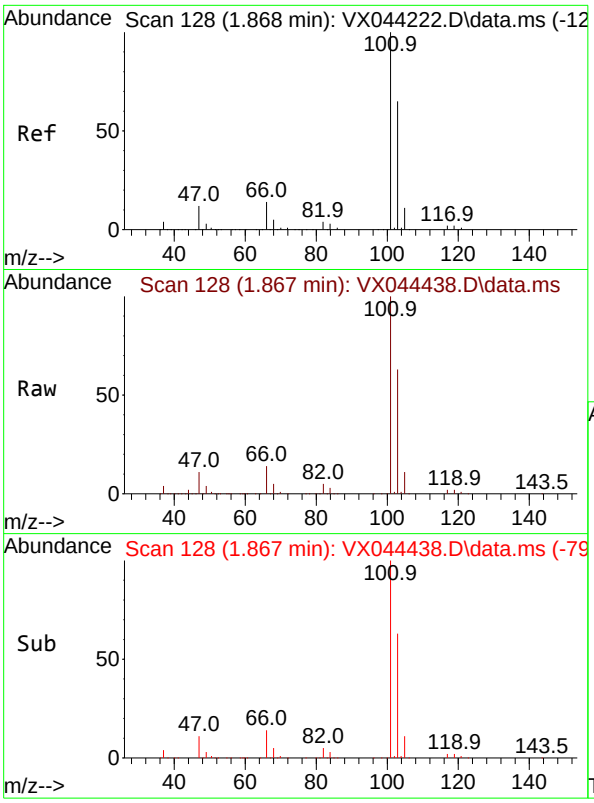


#6
Chloroethane
Concen: 49.350 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 64 Resp: 64589

Ion	Ratio	Lower	Upper
64	100		
66	33.3	26.6	39.8



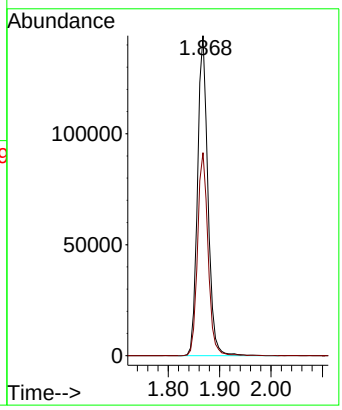


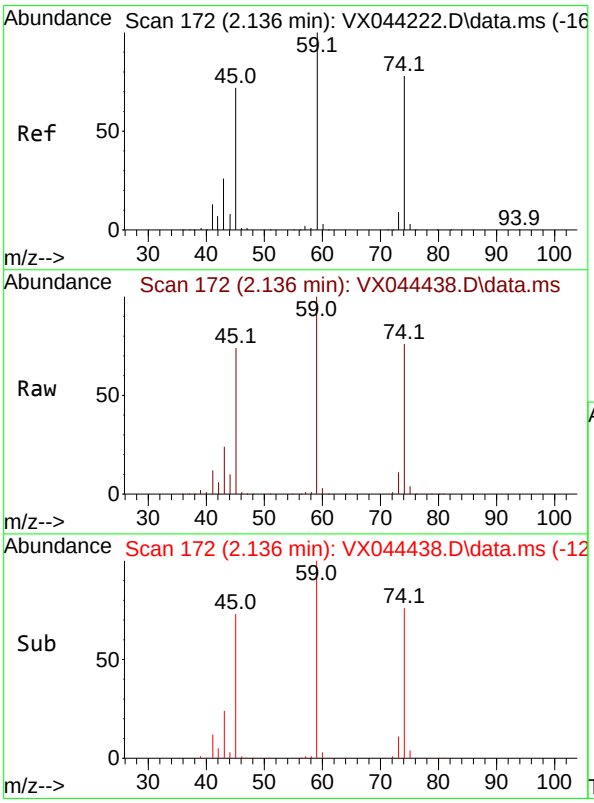
#7
Trichlorofluoromethane
Concen: 49.144 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 202222

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.8	77.8

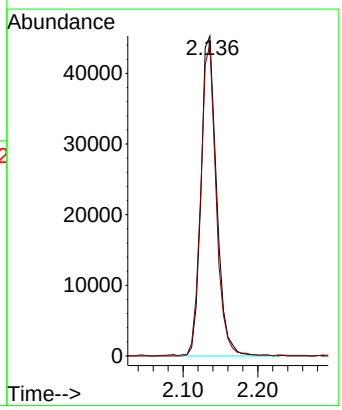


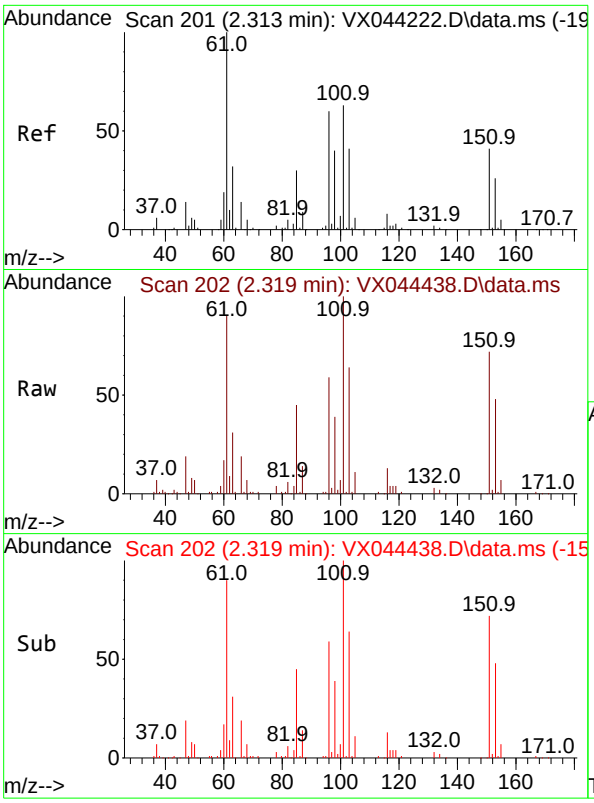


#8
Diethyl Ether
Concen: 46.573 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 74 Resp: 65414

Ion	Ratio	Lower	Upper
74	100		
45	96.6	48.4	145.0



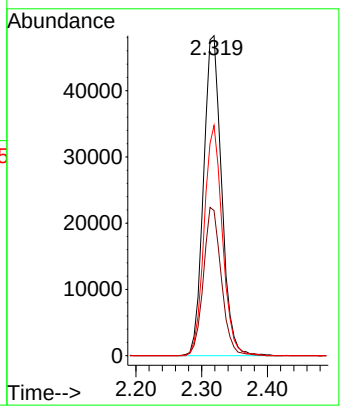


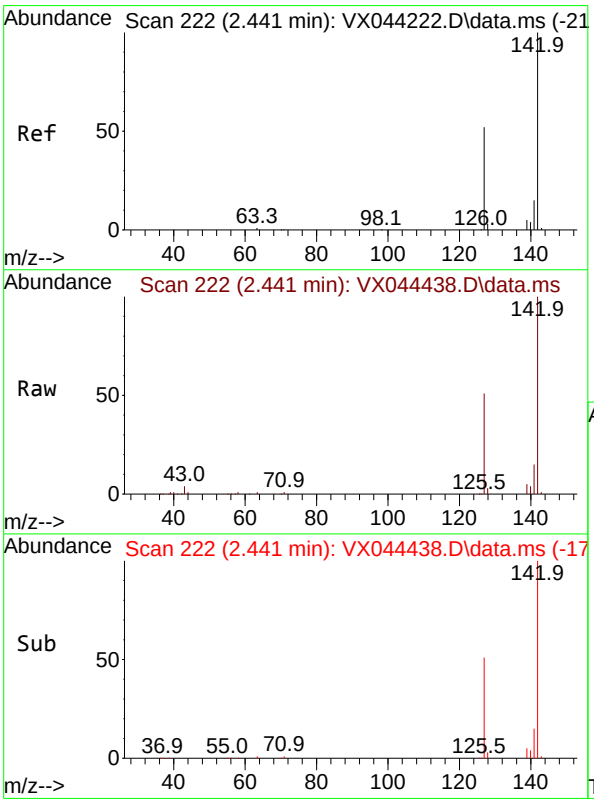
#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.436 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 92304

Ion	Ratio	Lower	Upper
101	100		
85	46.0	38.5	57.7
151	72.5	55.8	83.6

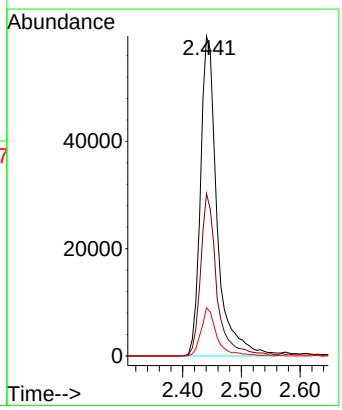


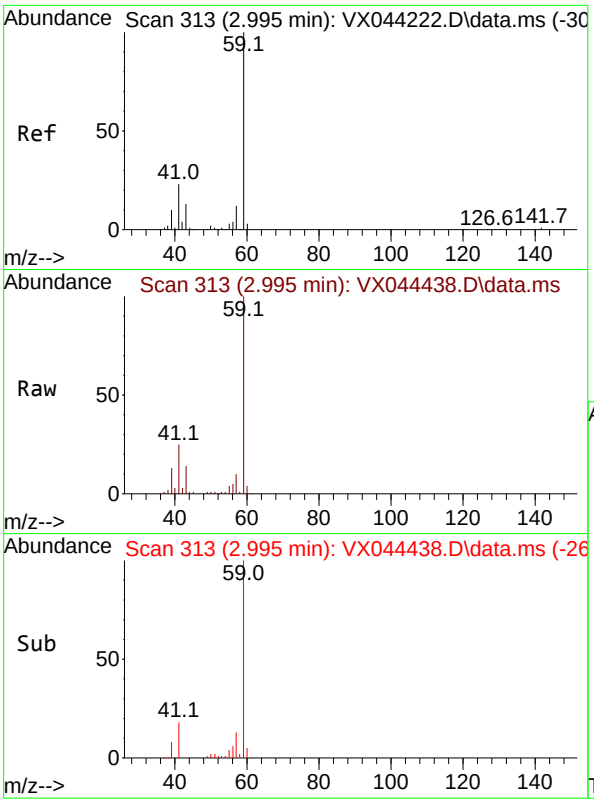


#10
Methyl Iodide
Concen: 53.737 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:142 Resp: 117927

Ion	Ratio	Lower	Upper
142	100		
127	49.2	41.8	62.8
141	14.2	11.5	17.3



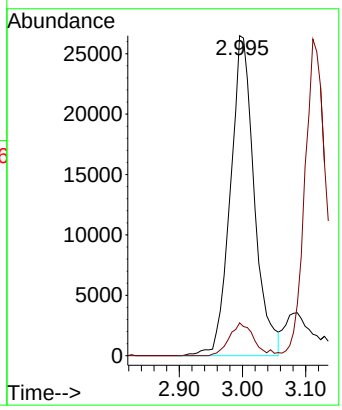


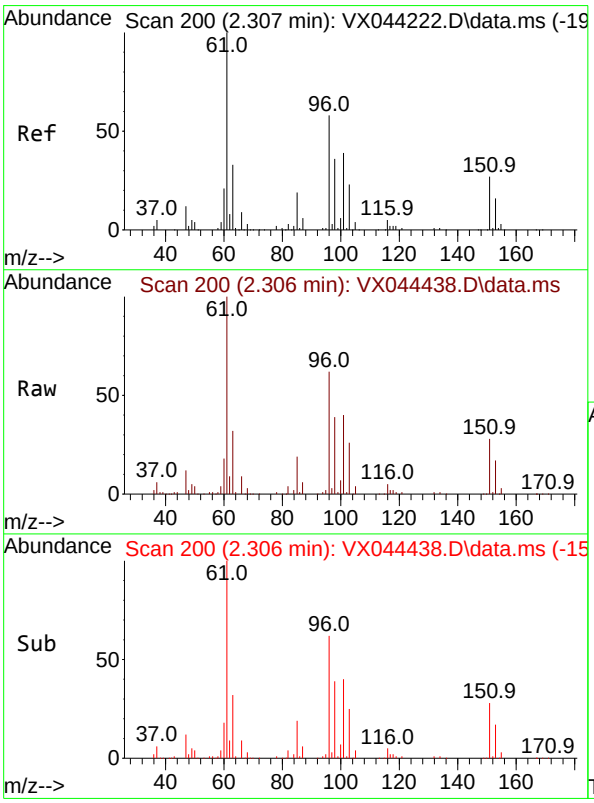
#11
Tert butyl alcohol
Concen: 207.237 ug/l
RT: 2.995 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 69873

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.8	13.2

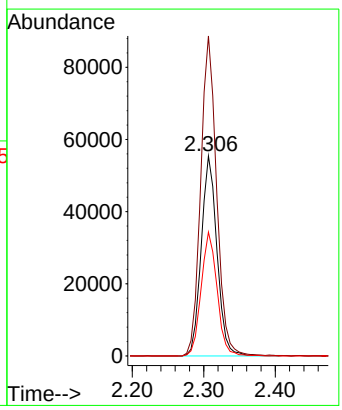


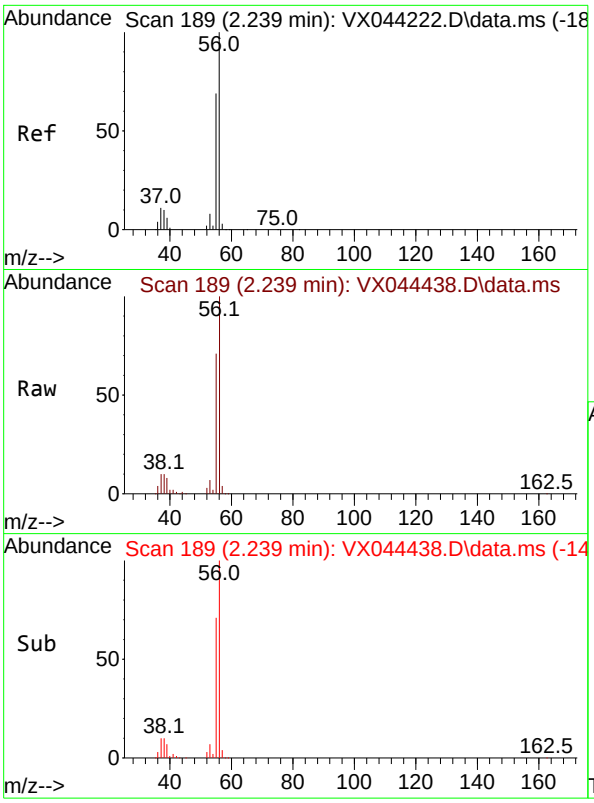


#12
1,1-Dichloroethene
Concen: 55.650 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 96 Resp: 85110

Ion	Ratio	Lower	Upper
96	100		
61	160.0	138.0	207.0
98	62.0	50.0	75.0



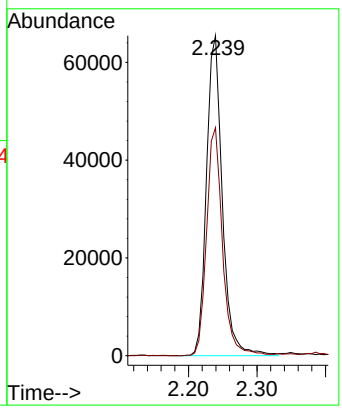


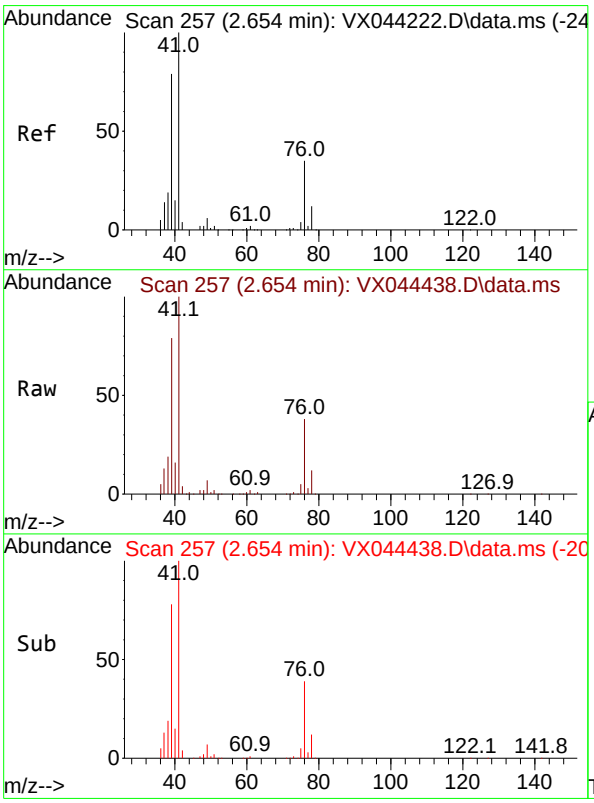
#13
Acrolein
Concen: 216.034 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 105437

Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.6	84.8

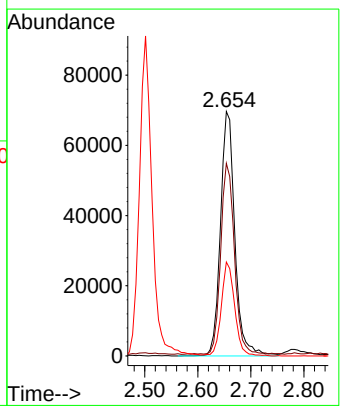


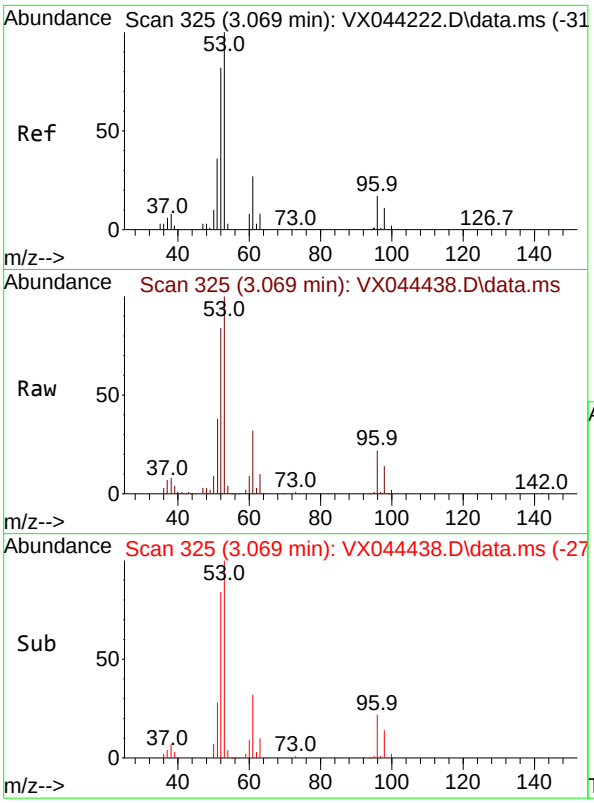


#14
Allyl chloride
Concen: 51.595 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 41 Resp: 131432

Ion	Ratio	Lower	Upper
41	100		
39	73.8	61.9	92.9
76	35.5	27.4	41.2



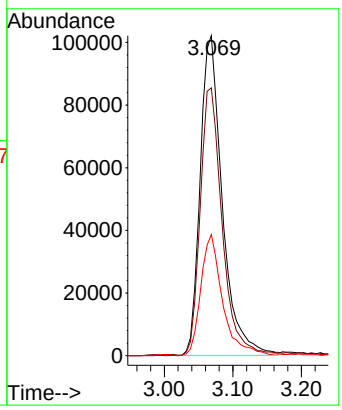


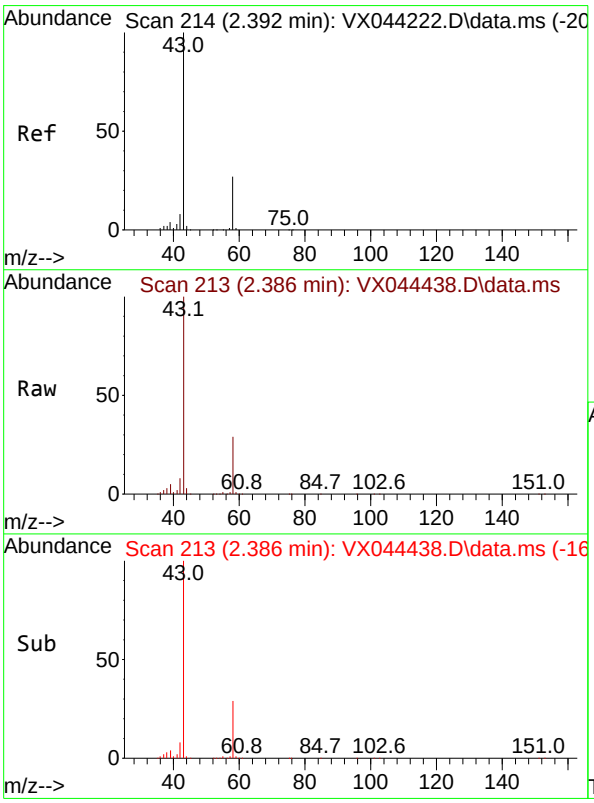
#15
Acrylonitrile
Concen: 245.064 ug/l
RT: 3.069 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 228880

Ion	Ratio	Lower	Upper
53	100		
52	83.6	67.4	101.0
51	37.1	30.3	45.5

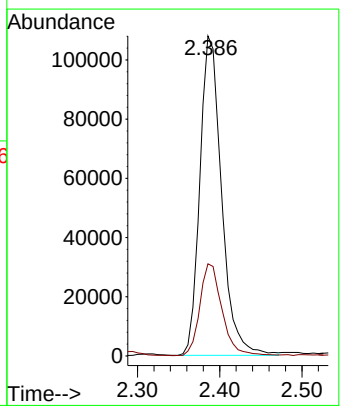


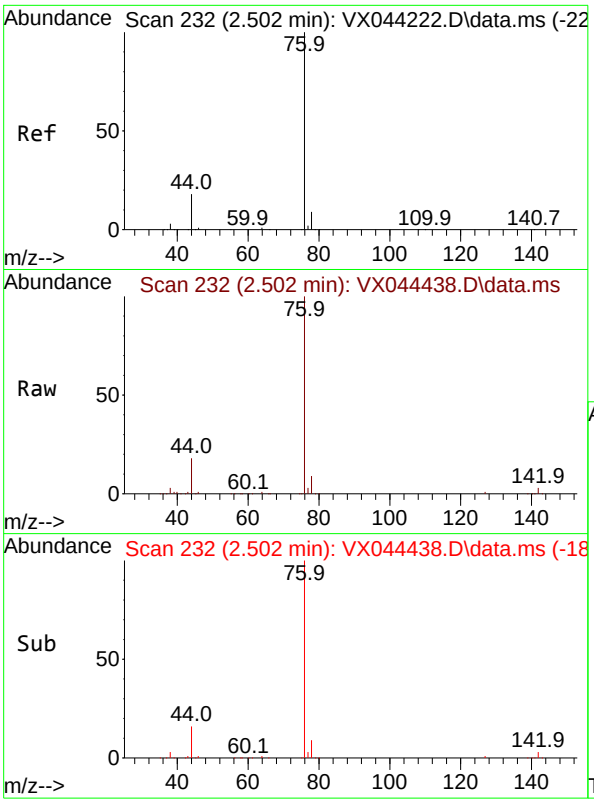


#16
Acetone
Concen: 203.262 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 198245

Ion	Ratio	Lower	Upper
43	100		
58	28.7	21.6	32.4



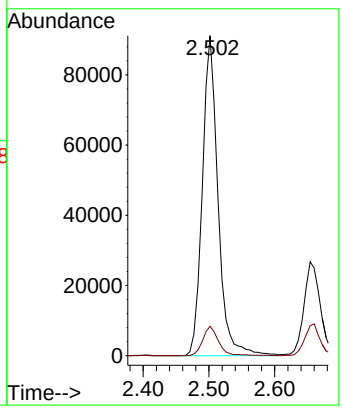


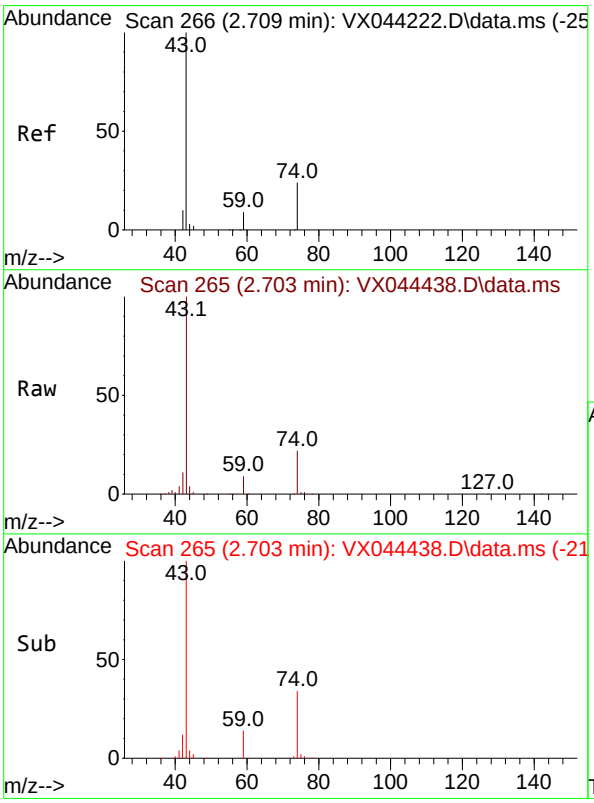
#17
Carbon Disulfide
Concen: 51.902 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 150886

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

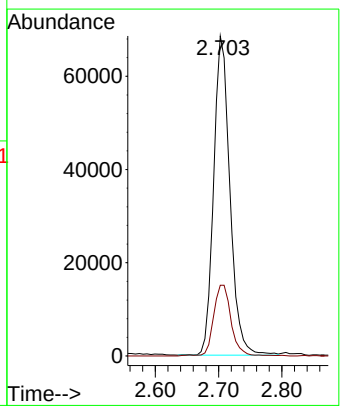


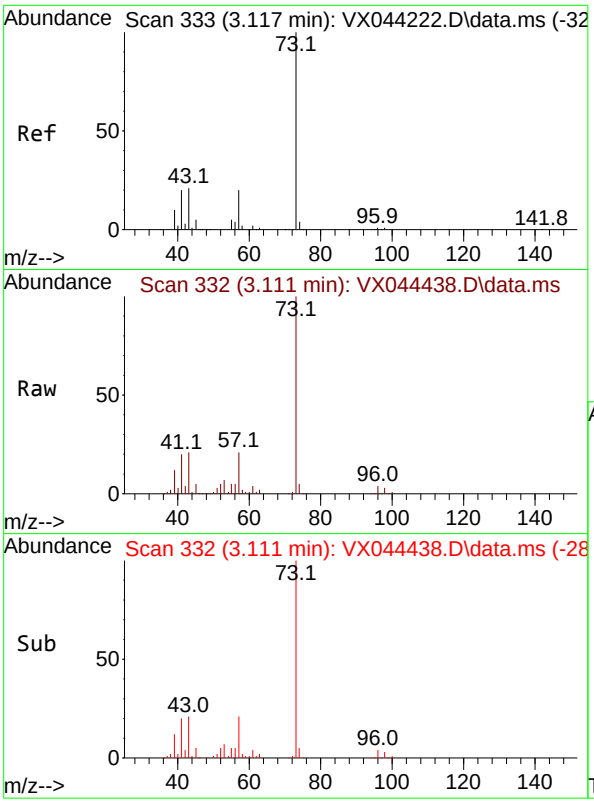


#18
Methyl Acetate
Concen: 48.611 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 122242

Ion	Ratio	Lower	Upper
43	100		
74	23.7	17.7	26.5



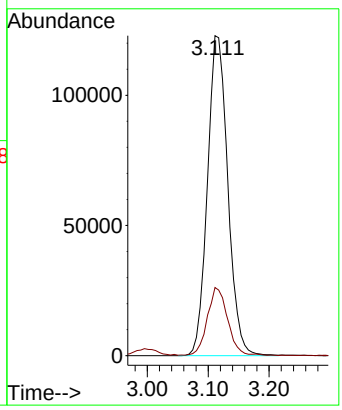


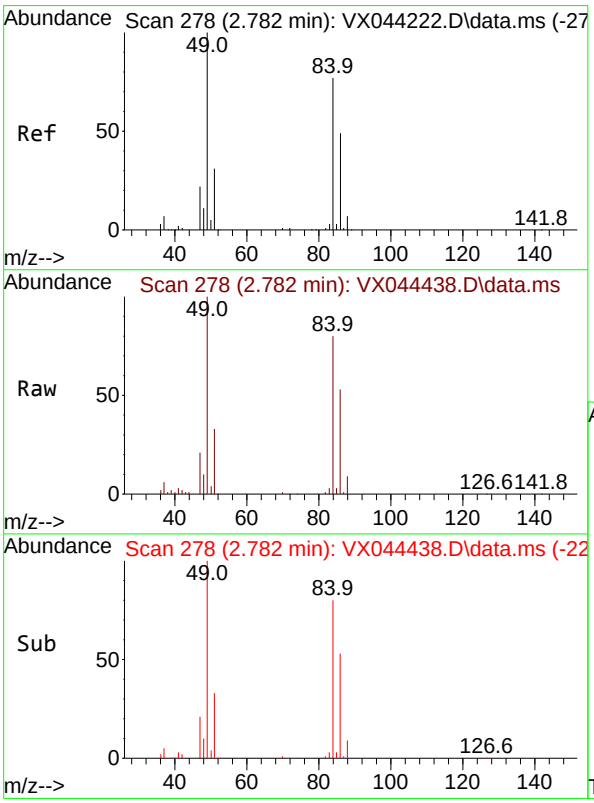
#19
Methyl tert-butyl Ether
Concen: 47.845 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 285547

Ion	Ratio	Lower	Upper
73	100		
57	21.2	16.2	24.4

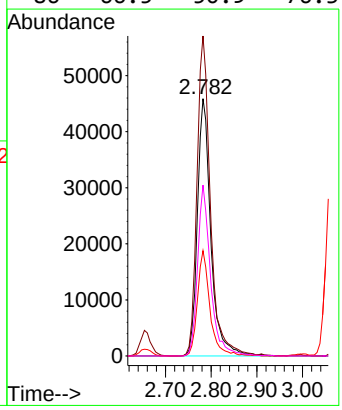


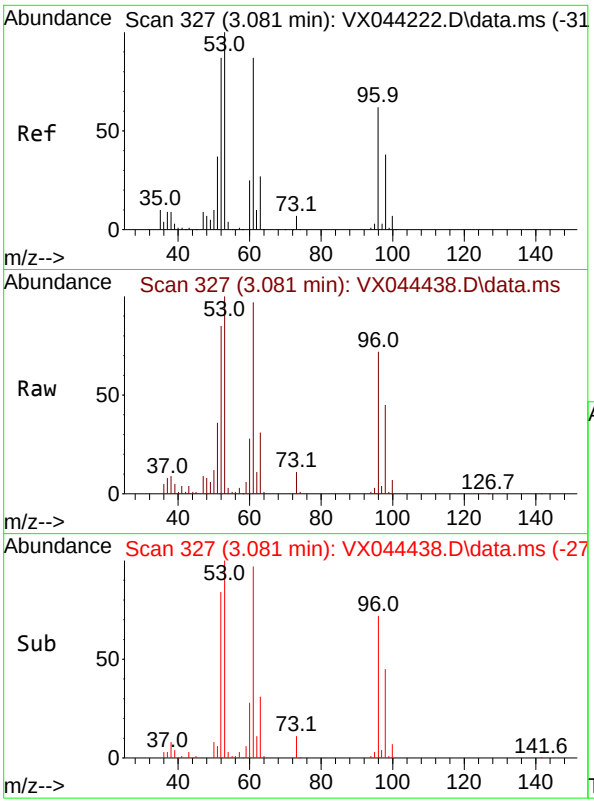


#20
Methylene Chloride
Concen: 51.347 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 84 Resp: 94061

Ion	Ratio	Lower	Upper
84	100		
49	124.4	104.2	156.4
51	40.9	32.2	48.4
86	66.5	50.9	76.3



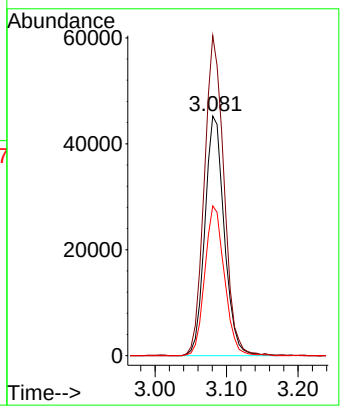


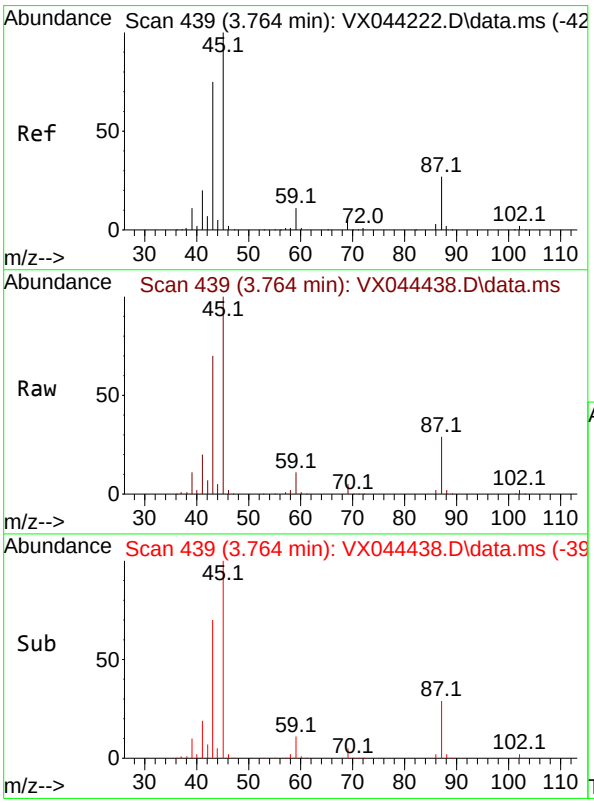
#21
trans-1,2-Dichloroethene
Concen: 52.474 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 85292

Ion	Ratio	Lower	Upper
96	100		
61	133.6	112.0	168.0
98	62.5	48.8	73.2

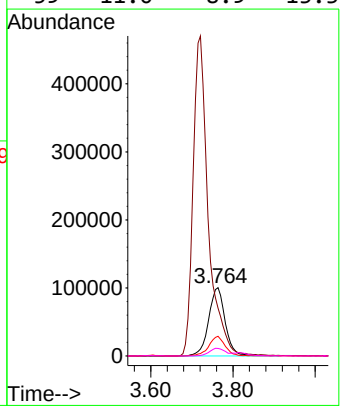


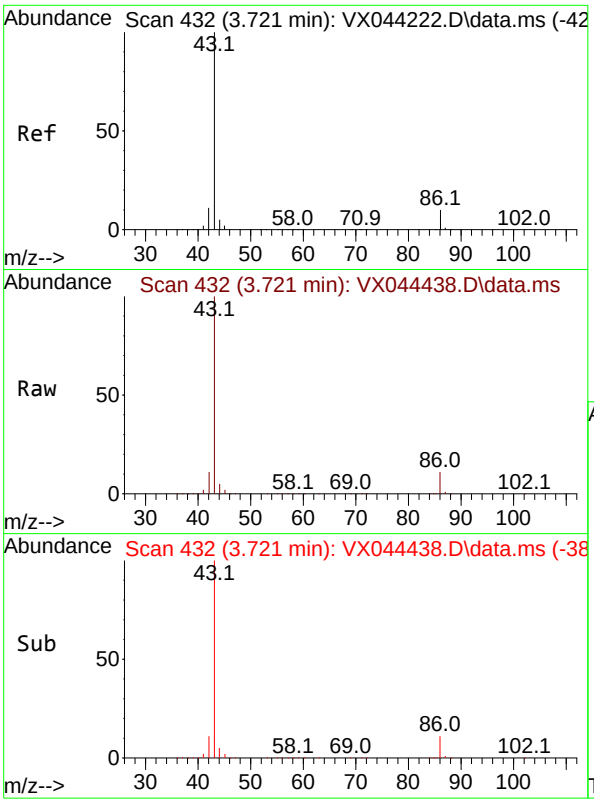


#22
Diisopropyl ether
Concen: 49.031 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 45 Resp: 281255

Ion	Ratio	Lower	Upper
45	100		
43	69.9	60.2	90.2
87	28.8	21.2	31.8
59	11.0	8.9	13.3



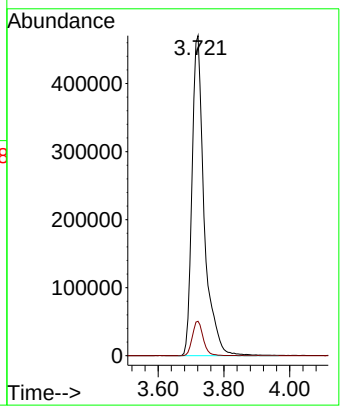


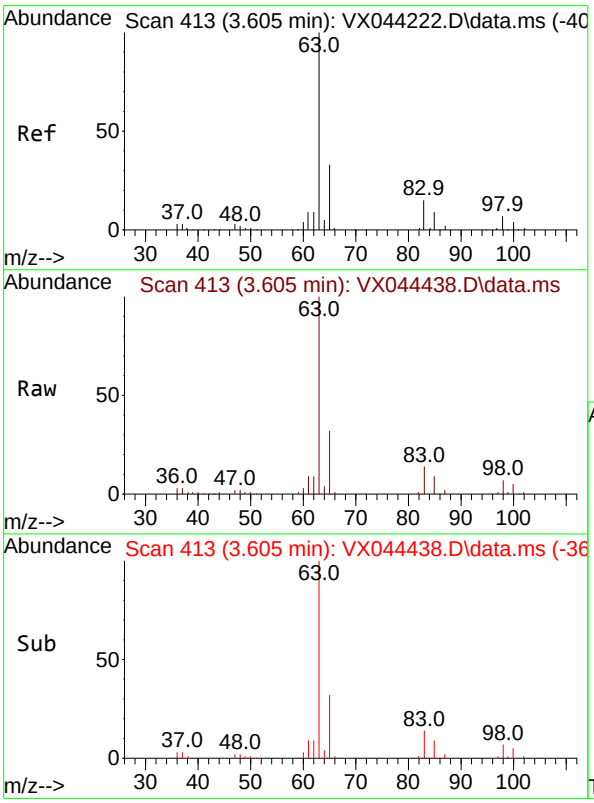
#23
Vinyl Acetate
Concen: 259.287 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1209209

Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.2	12.2

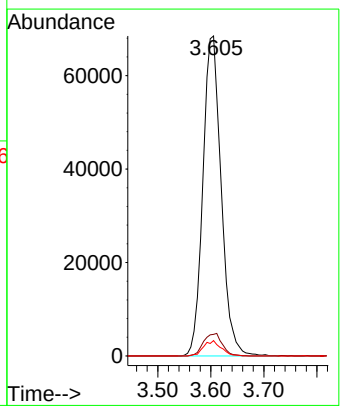


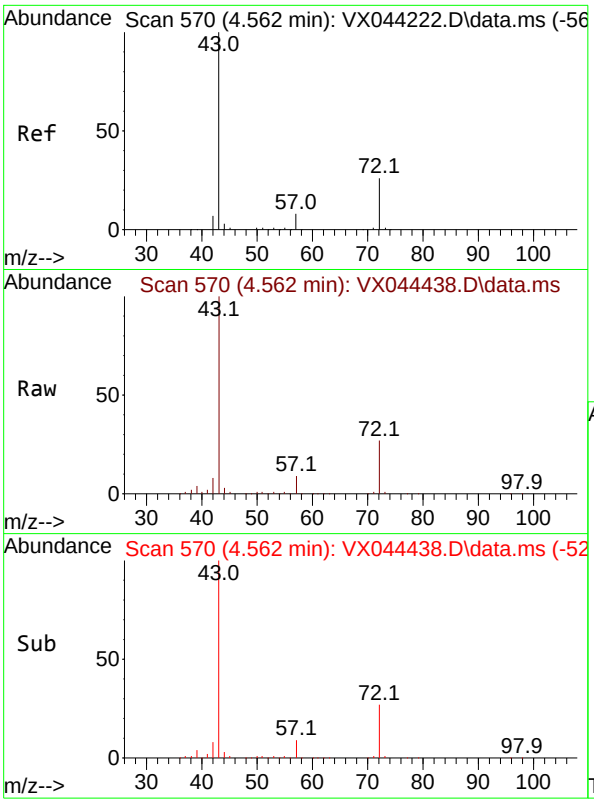


#24
1,1-Dichloroethane
Concen: 51.322 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 63 Resp: 164103

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.6	10.8
100	4.8	2.1	6.3



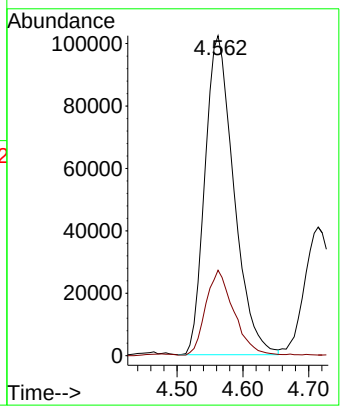


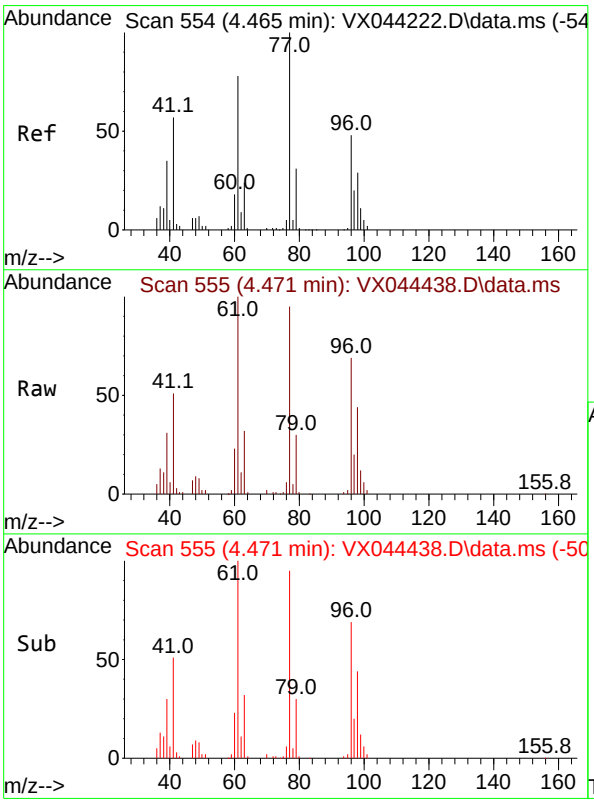
#25
2-Butanone
Concen: 225.066 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 312065

Ion	Ratio	Lower	Upper
43	100		
72	26.6	20.2	30.4

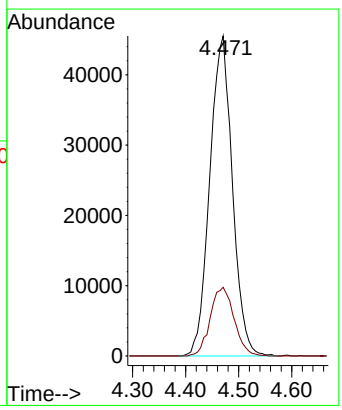


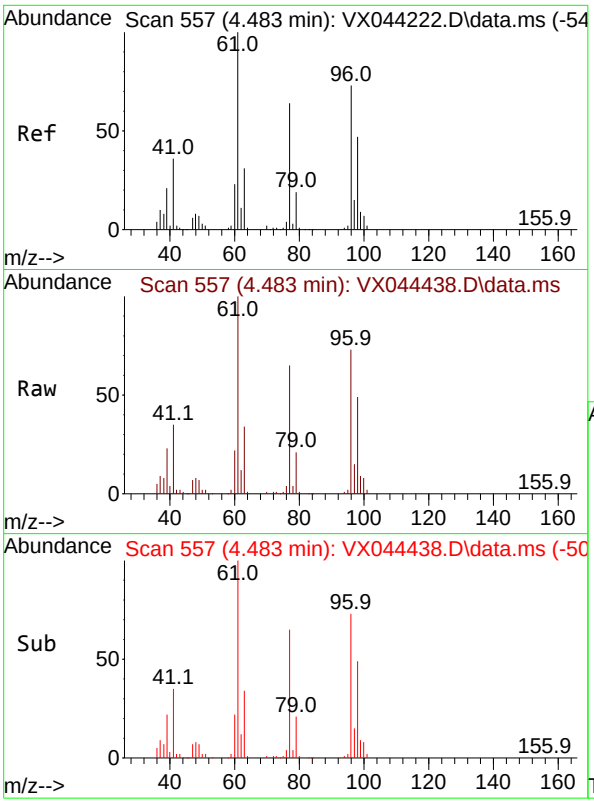


#26
2,2-Dichloropropane
Concen: 51.979 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 77 Resp: 135023

Ion	Ratio	Lower	Upper
77	100		
97	22.6	10.7	32.1



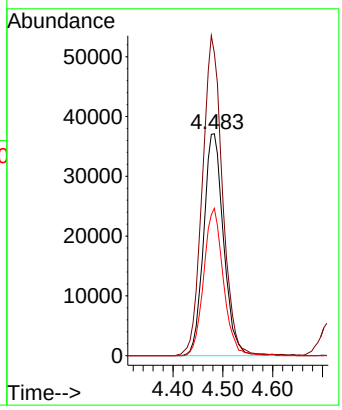


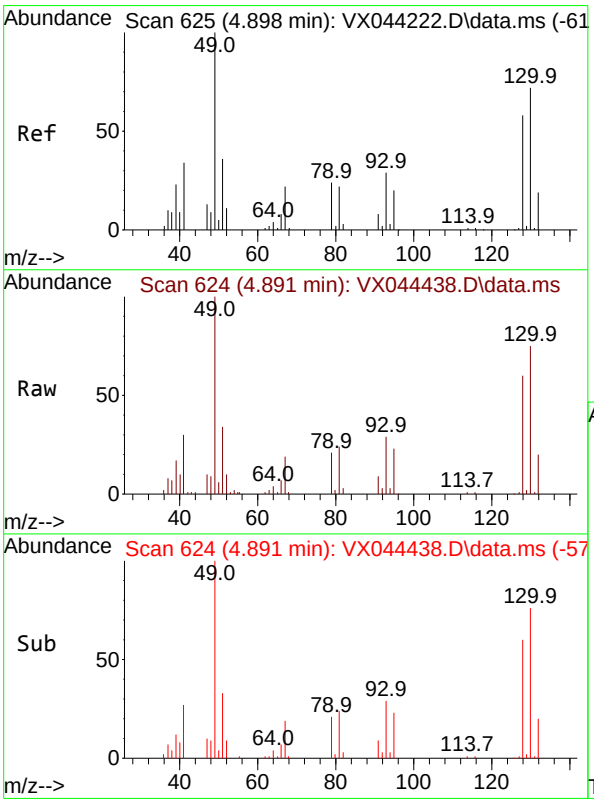
#27
cis-1,2-Dichloroethene
Concen: 49.931 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 103072

Ion	Ratio	Lower	Upper
96	100		
61	144.7	0.0	299.0
98	65.2	0.0	129.0

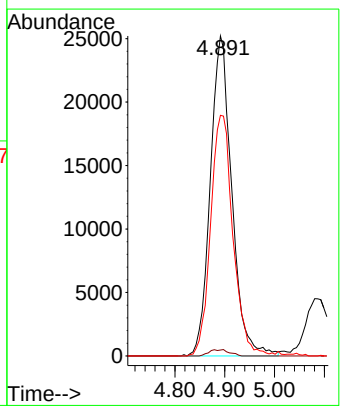


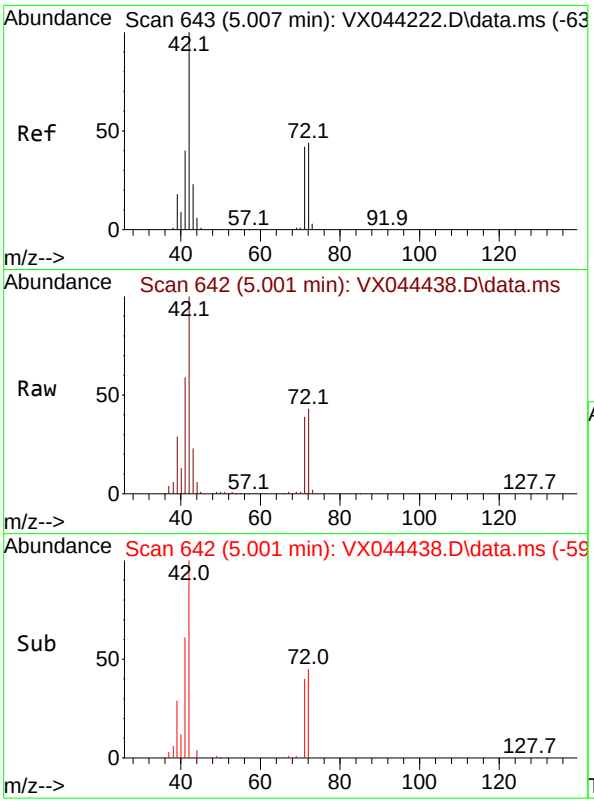


#28
Bromochloromethane
Concen: 48.128 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 49 Resp: 75463

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.2
130	78.0	62.1	93.1



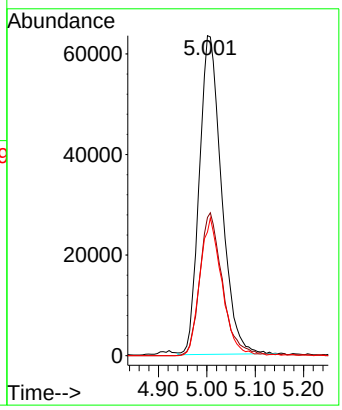


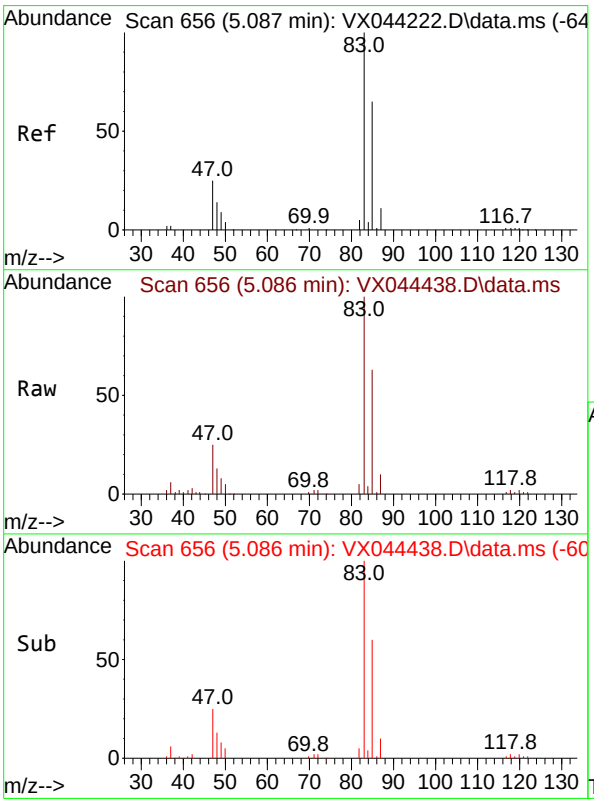
#29
Tetrahydrofuran
Concen: 227.599 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 202559

Ion	Ratio	Lower	Upper
42	100		
72	45.7	37.0	55.6
71	42.9	33.6	50.4

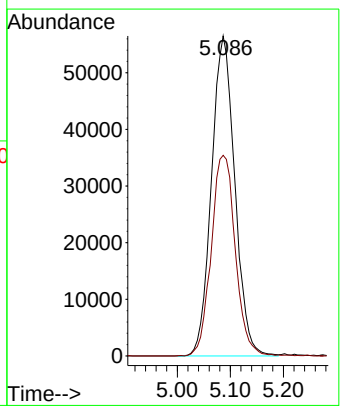


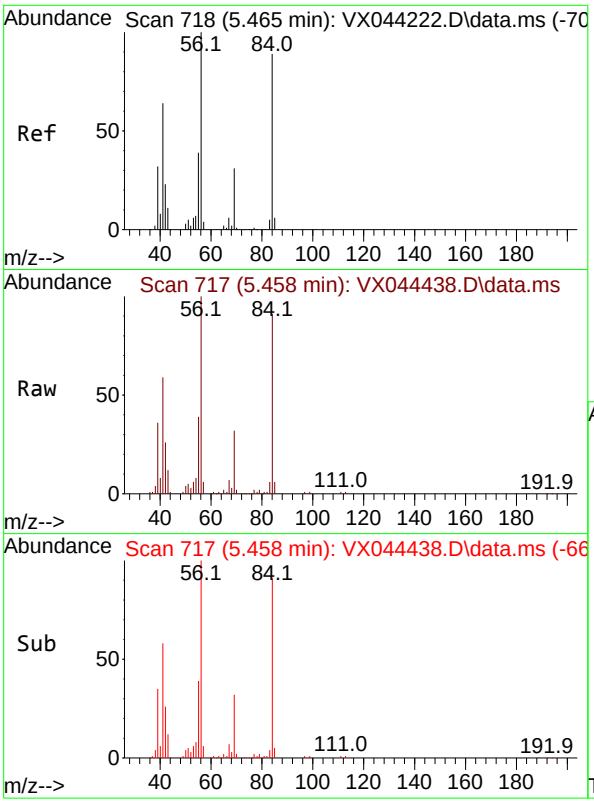


#30
Chloroform
Concen: 48.035 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 83 Resp: 172568

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.6	77.4



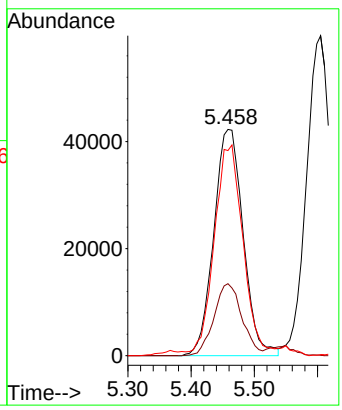


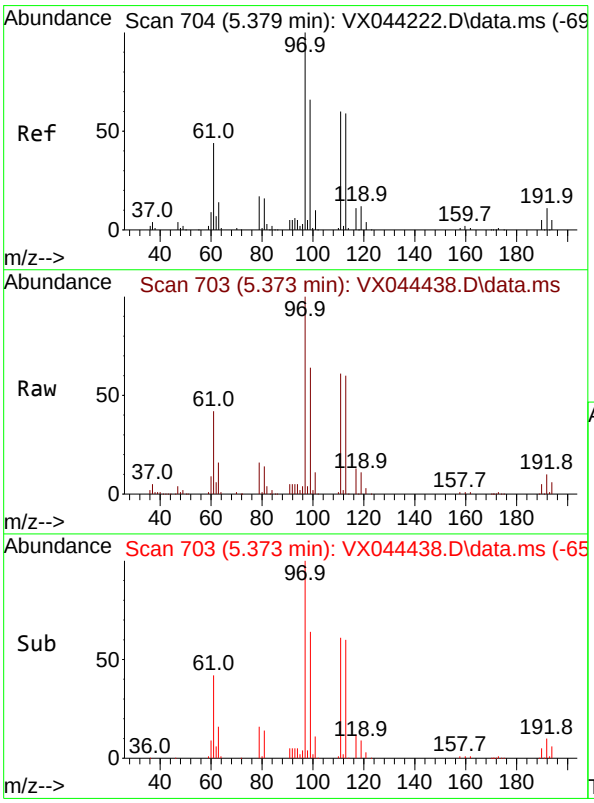
#31
Cyclohexane
Concen: 52.839 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 136432

Ion	Ratio	Lower	Upper
56	100		
69	31.9	24.7	37.1
84	89.0	71.0	106.6

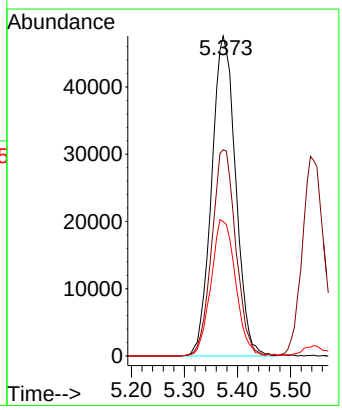


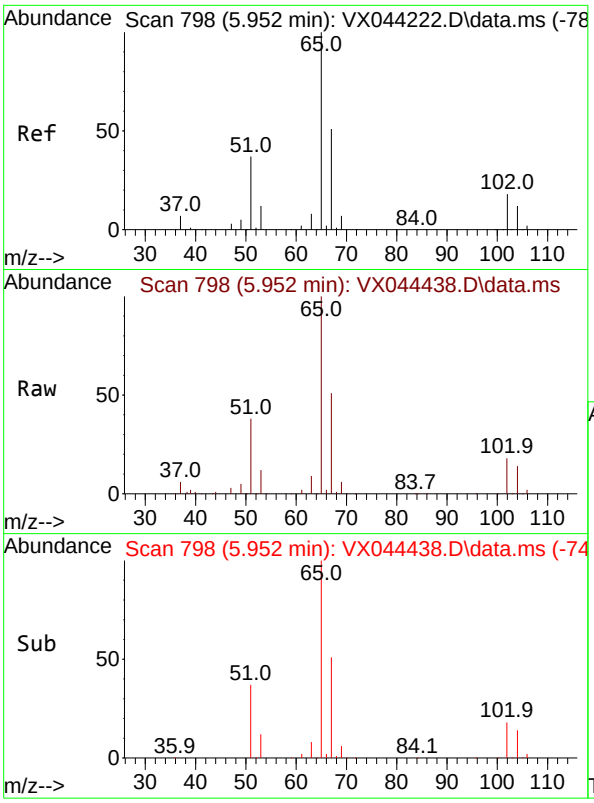


#32
1,1,1-Trichloroethane
Concen: 50.298 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 97 Resp: 149993

Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.8	76.2
61	43.5	35.2	52.8



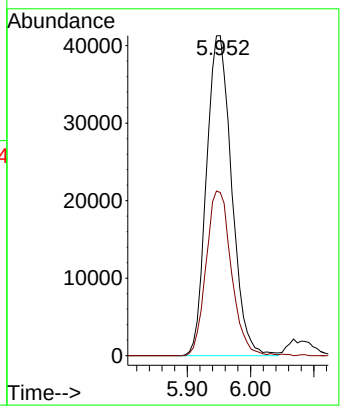


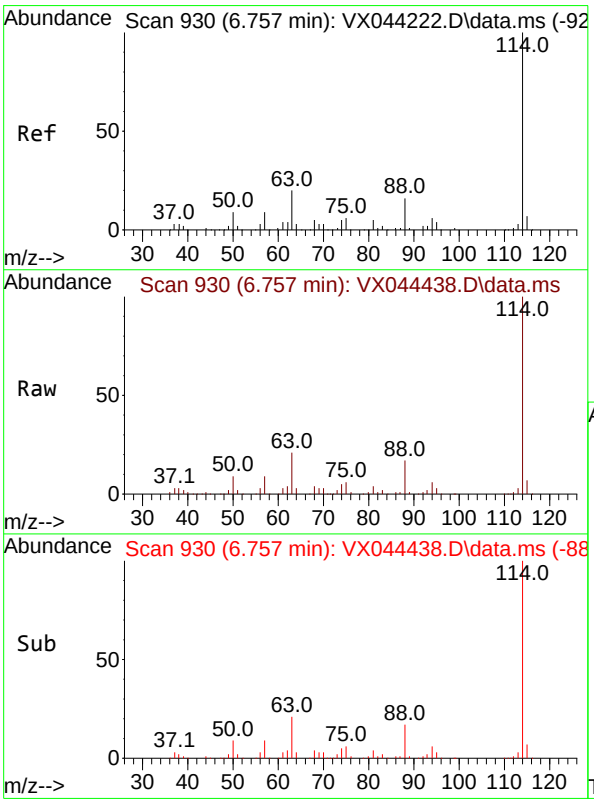
#33
1,2-Dichloroethane-d4
Concen: 47.679 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 114063

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	101.6

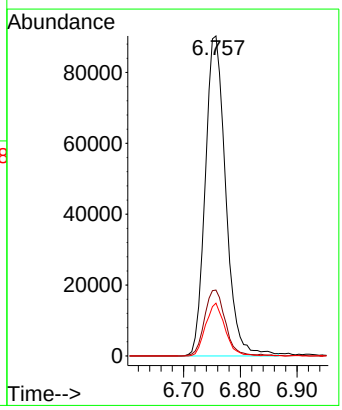


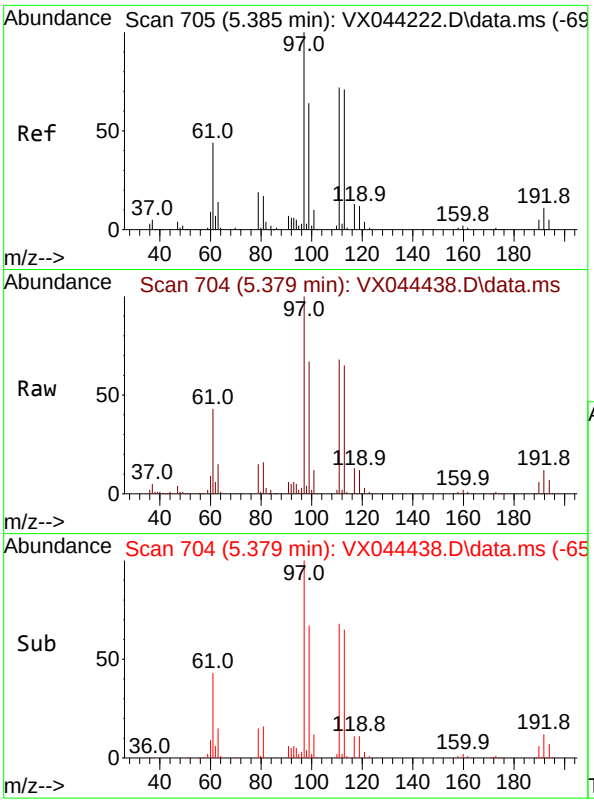


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:114 Resp: 226018

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.6
88	16.5	0.0	31.8



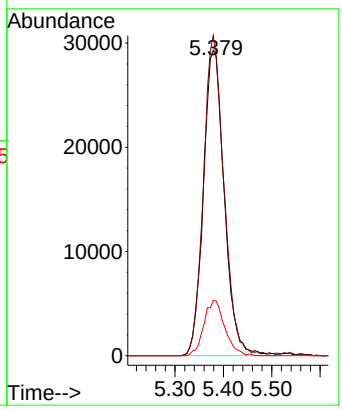


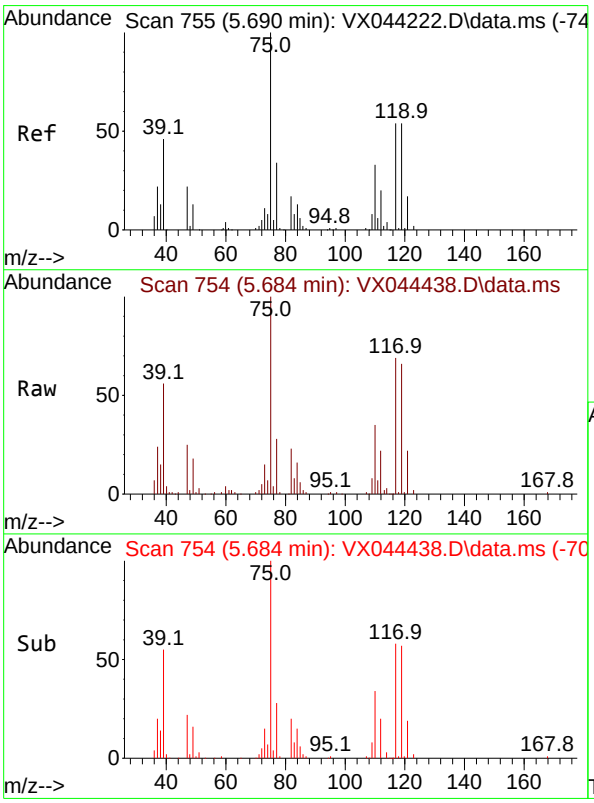
#35
Dibromofluoromethane
Concen: 56.586 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 88578

Ion	Ratio	Lower	Upper
113	100		
111	101.0	80.4	120.6
192	18.0	13.3	19.9

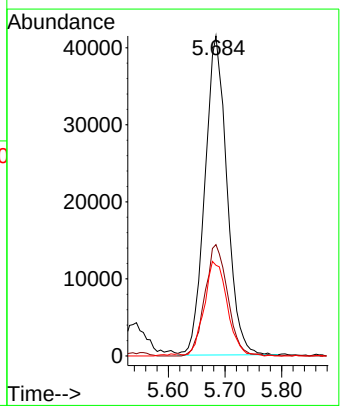


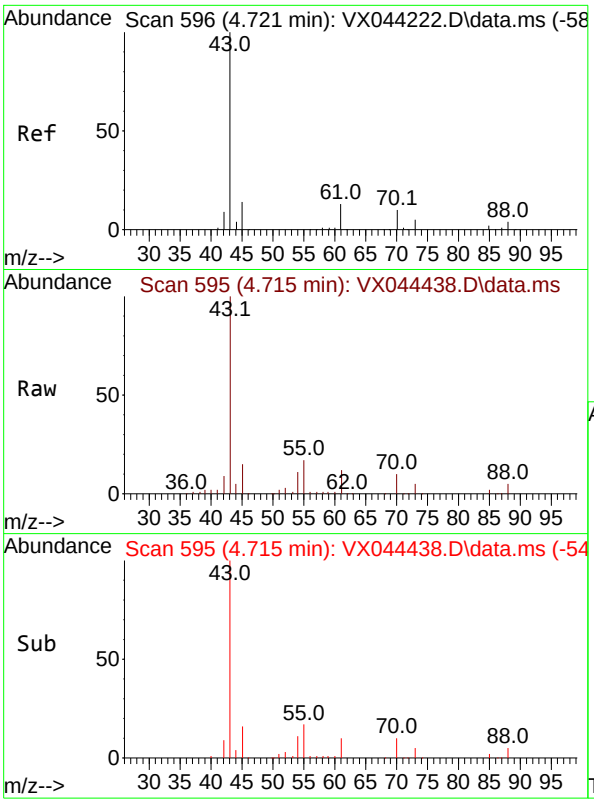


#36
1,1-Dichloropropene
Concen: 55.205 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 111706

Ion	Ratio	Lower	Upper
75	100		
110	36.3	17.3	51.7
77	31.1	25.4	38.0



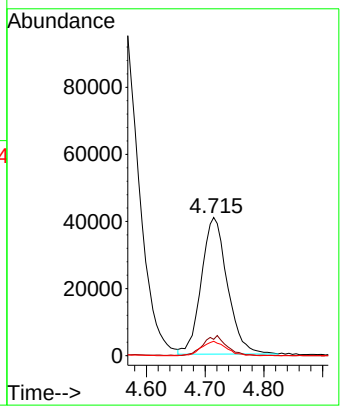


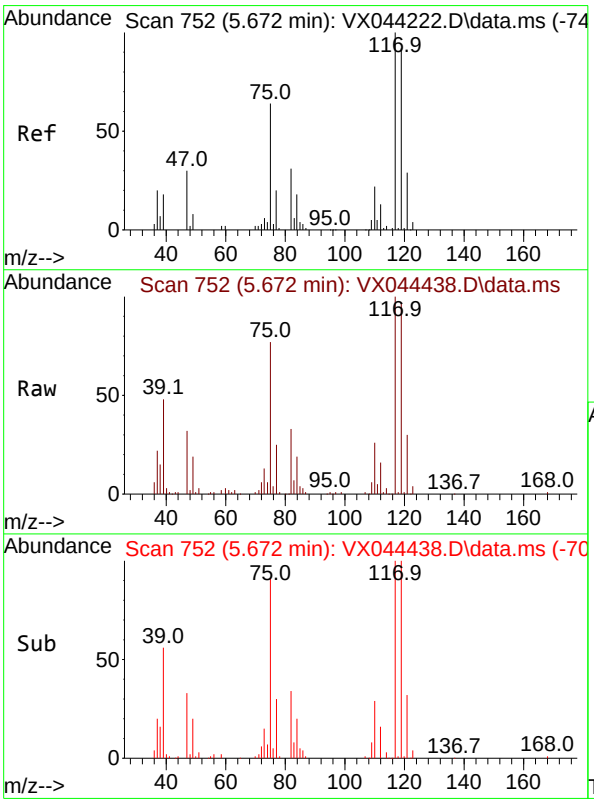
#37
Ethyl Acetate
Concen: 50.217 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 125607

Ion	Ratio	Lower	Upper
43	100		
61	12.7	9.8	14.8
70	10.0	7.7	11.5

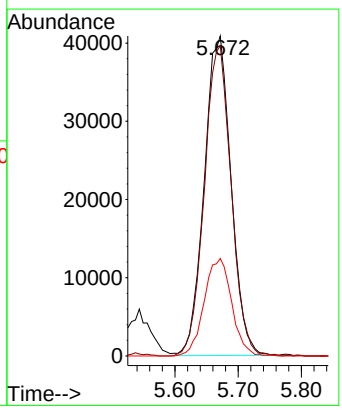


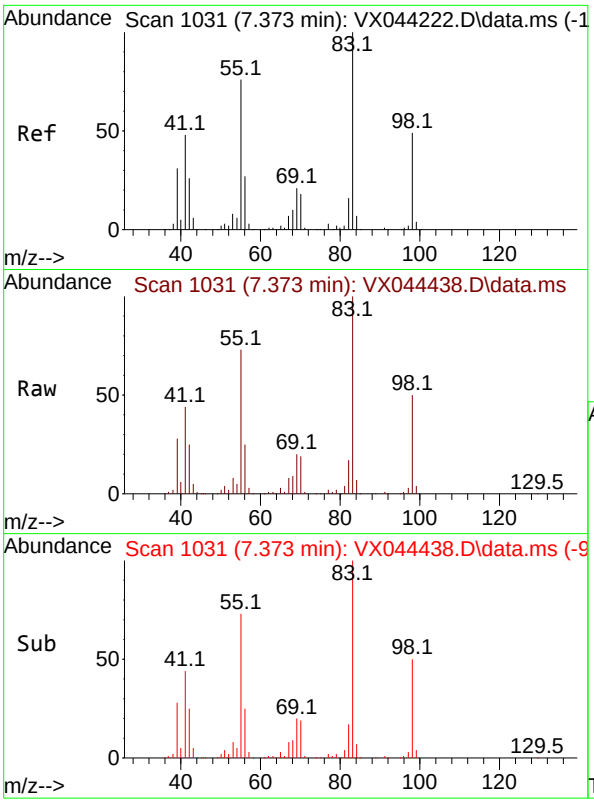


#38
Carbon Tetrachloride
Concen: 55.304 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:117 Resp: 120478

Ion	Ratio	Lower	Upper
117	100		
119	96.8	74.2	111.4
121	30.5	23.0	34.6



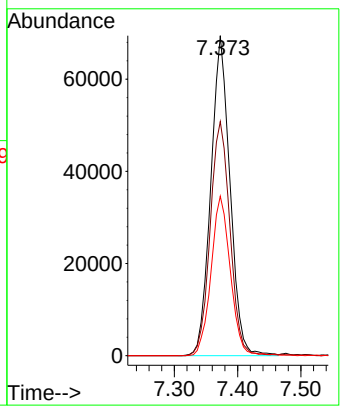


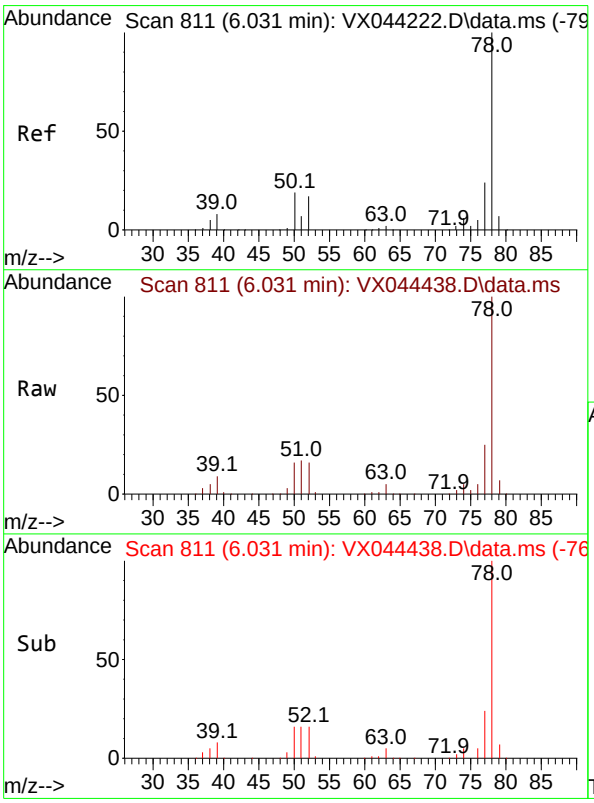
#39
Methylcyclohexane
Concen: 60.512 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 146379

Ion	Ratio	Lower	Upper
83	100		
55	73.1	60.7	91.1
98	49.8	38.9	58.3

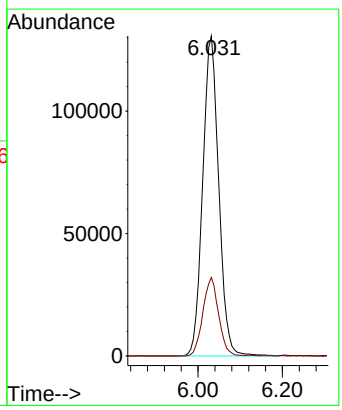


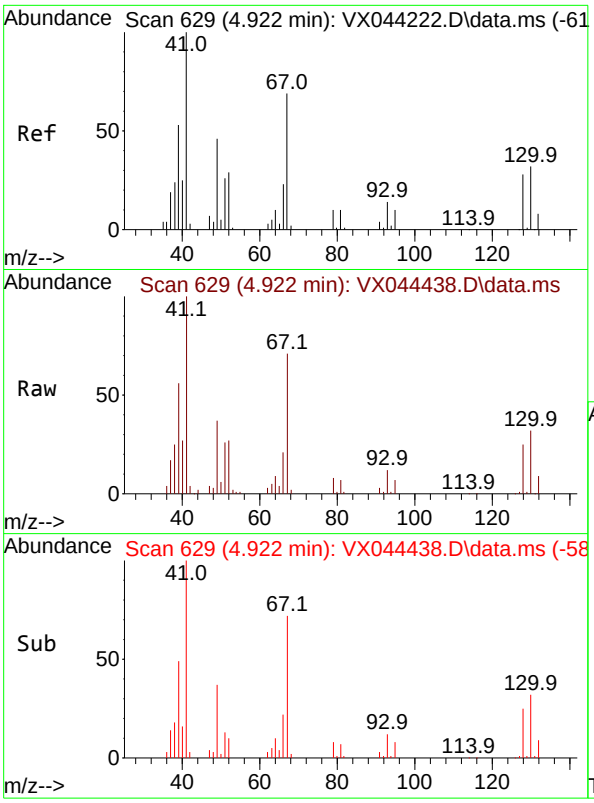


#40
Benzene
Concen: 56.259 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 78 Resp: 345635

Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.3	28.9



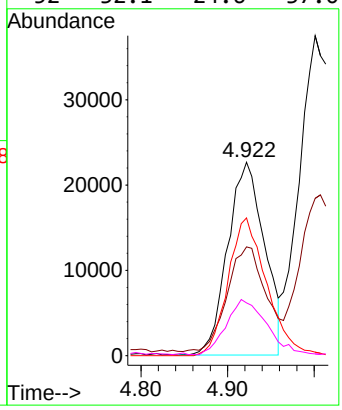


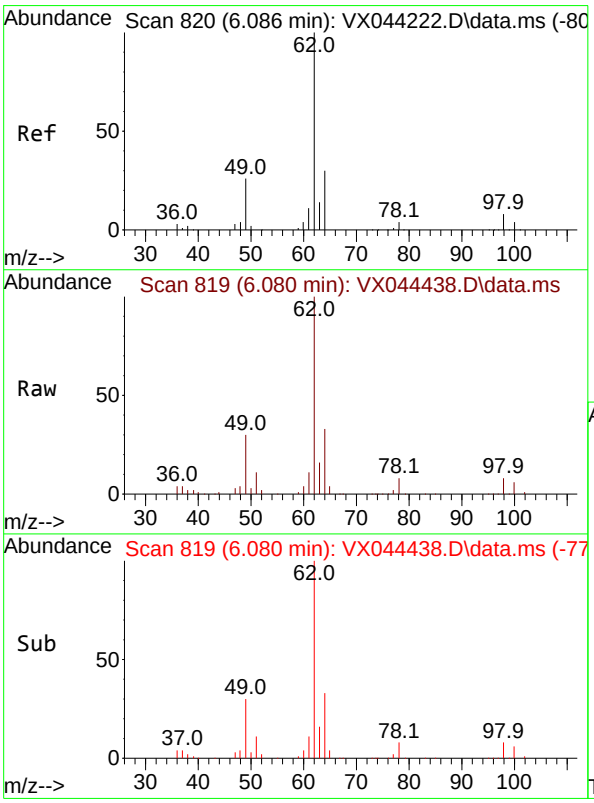
#41
Methacrylonitrile
Concen: 50.310 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 66821

Ion	Ratio	Lower	Upper
41	100		
39	58.0	44.2	66.4
67	74.9	57.2	85.8
52	32.1	24.6	37.0

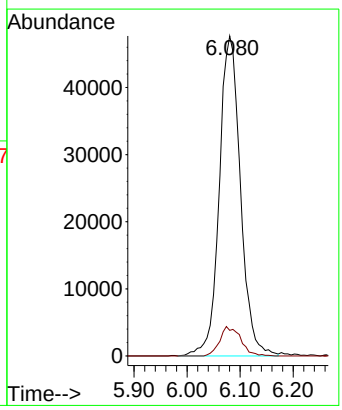


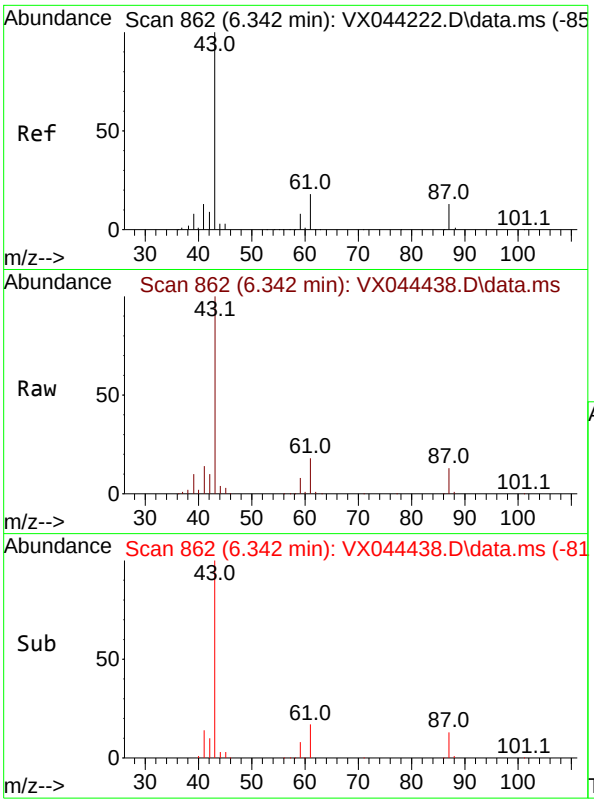


#42
1,2-Dichloroethane
Concen: 52.362 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 62 Resp: 132516

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	15.8



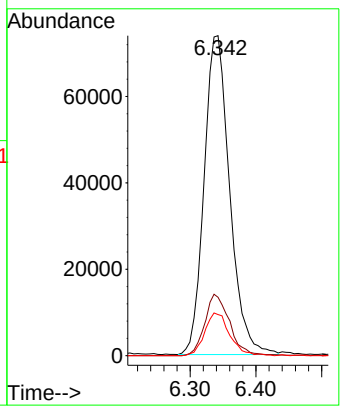


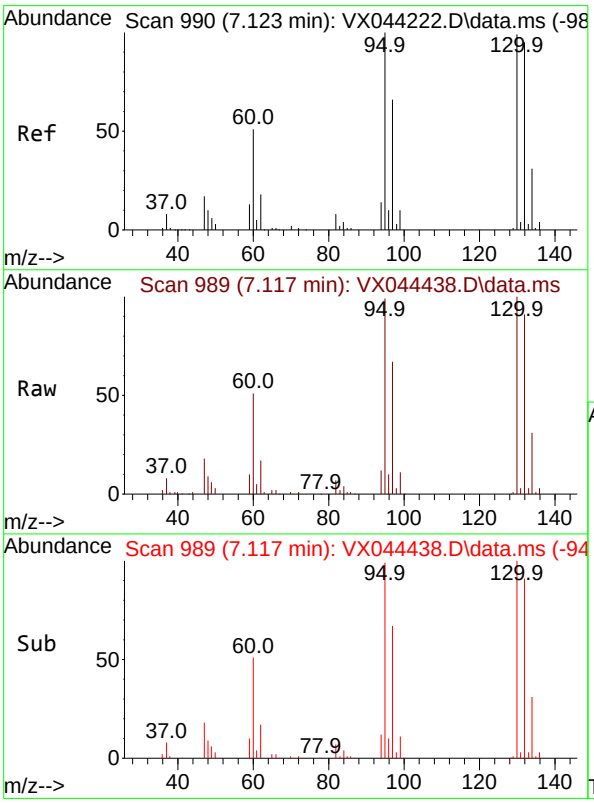
#43
Isopropyl Acetate
Concen: 51.076 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 199677

Ion	Ratio	Lower	Upper
43	100		
61	18.8	14.2	21.2
87	13.1	10.2	15.2

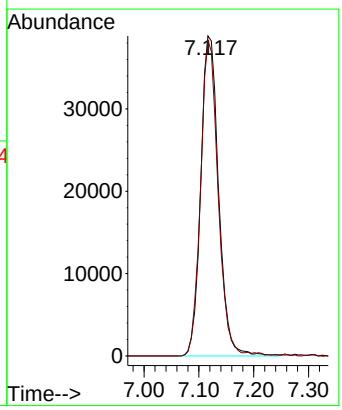


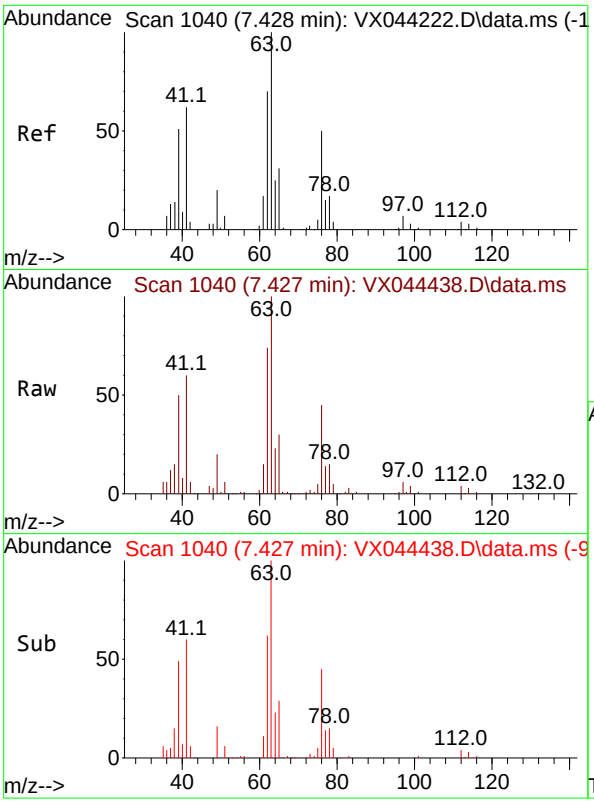


#44
Trichloroethene
Concen: 57.285 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:130 Resp: 87763

Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	201.4



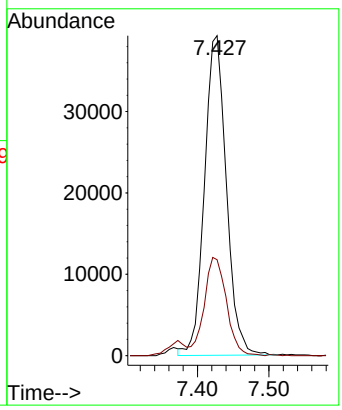


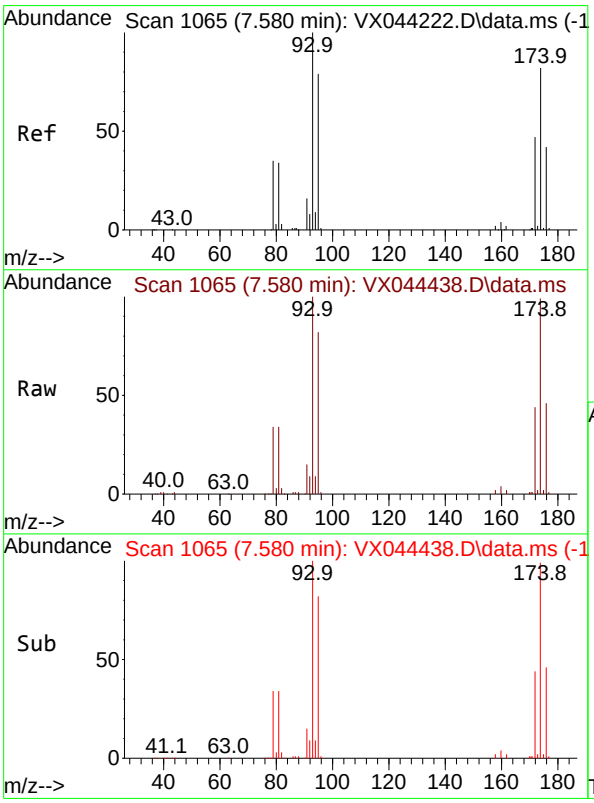
#45
1,2-Dichloropropane
Concen: 53.131 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 83393

Ion	Ratio	Lower	Upper
63	100		
65	29.9	24.6	37.0

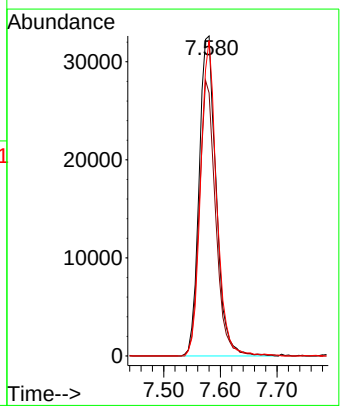


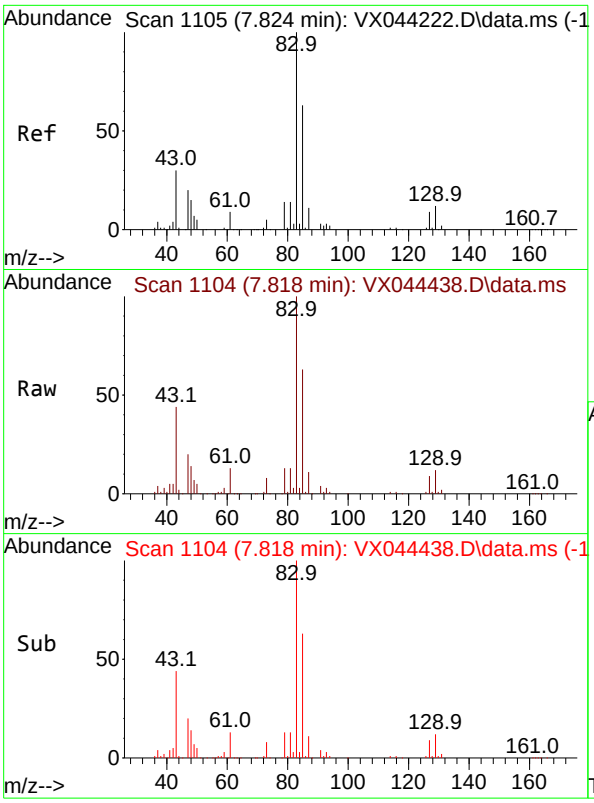


#46
Dibromomethane
Concen: 55.676 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 93 Resp: 67796

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.4	98.2
174	93.2	67.9	101.9



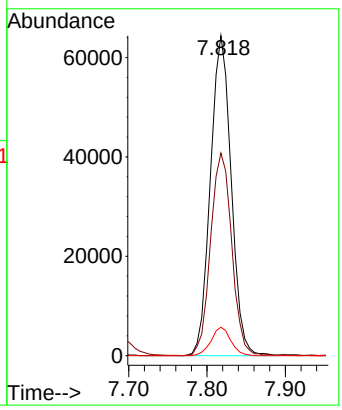


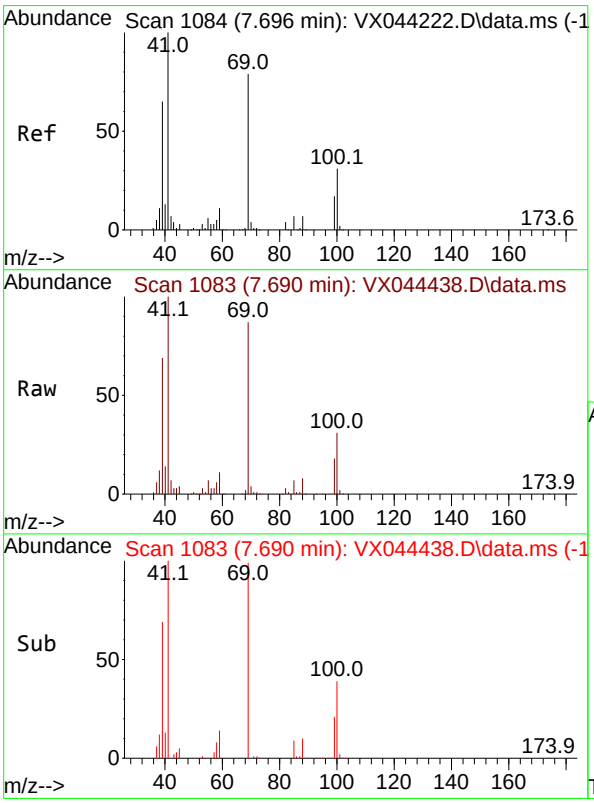
#47
Bromodichloromethane
Concen: 56.402 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 118614

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	8.9	7.3	10.9

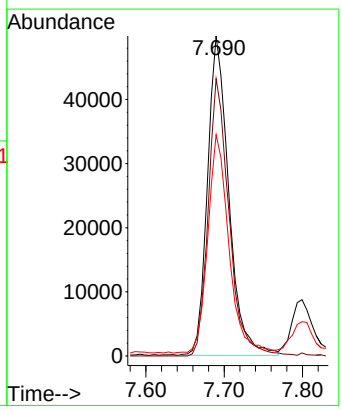


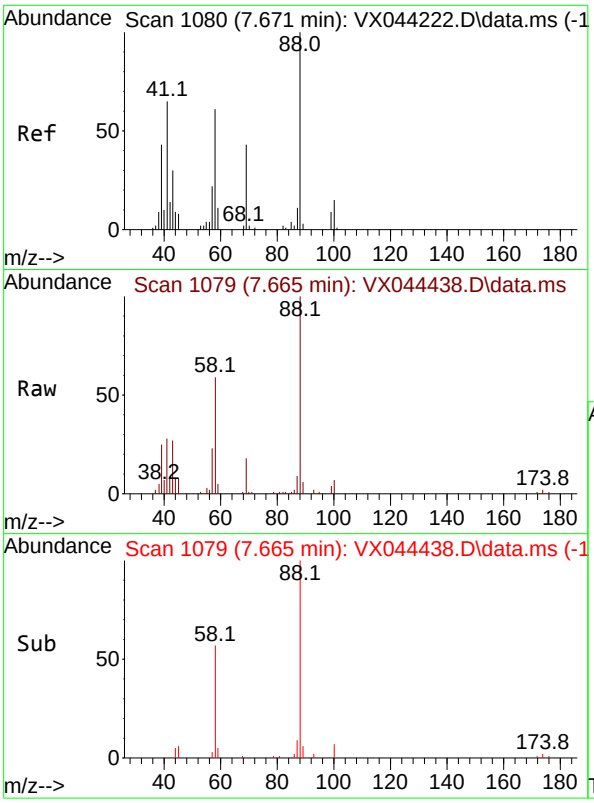


#48
Methyl methacrylate
Concen: 49.554 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 41 Resp: 94040

Ion	Ratio	Lower	Upper
41	100		
69	85.0	62.4	93.6
39	67.5	53.3	79.9



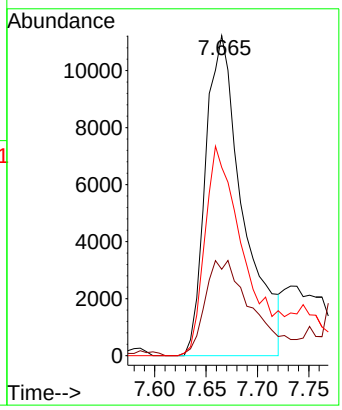


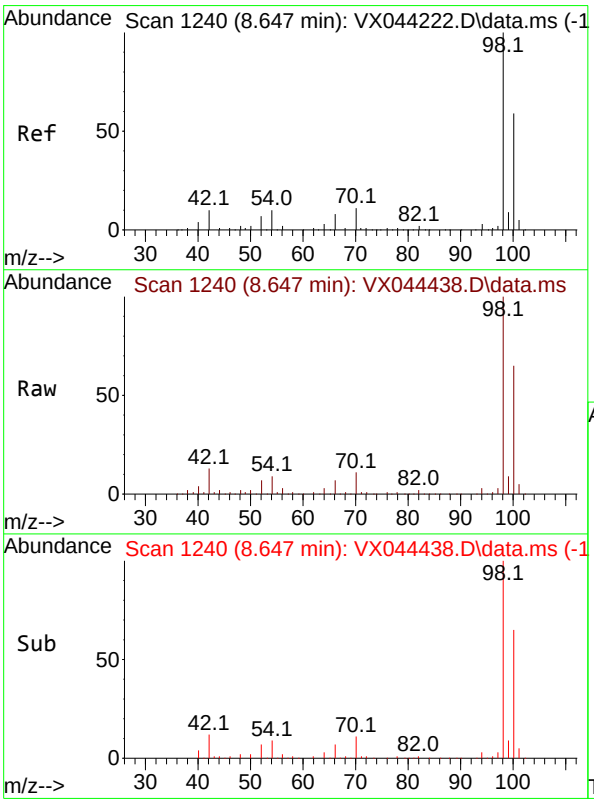
#49
1,4-Dioxane
Concen: 906.120 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 28510

Ion	Ratio	Lower	Upper
88	100		
43	37.0	27.1	40.7
58	69.1	41.0	61.4#

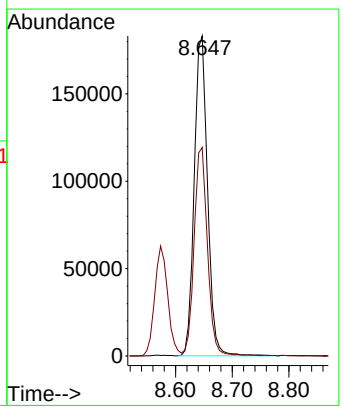


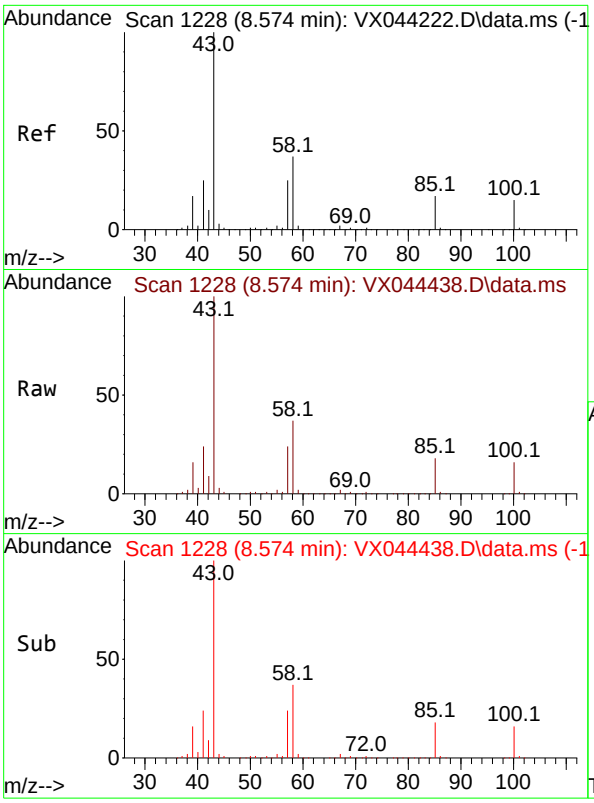


#50
Toluene-d8
Concen: 56.385 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 98 Resp: 297779

Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.5	77.3



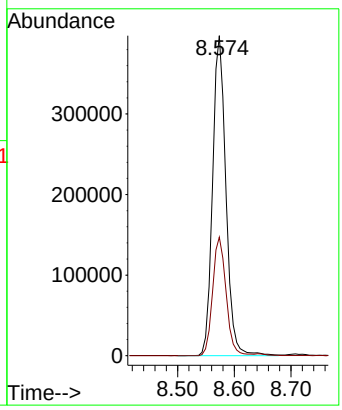


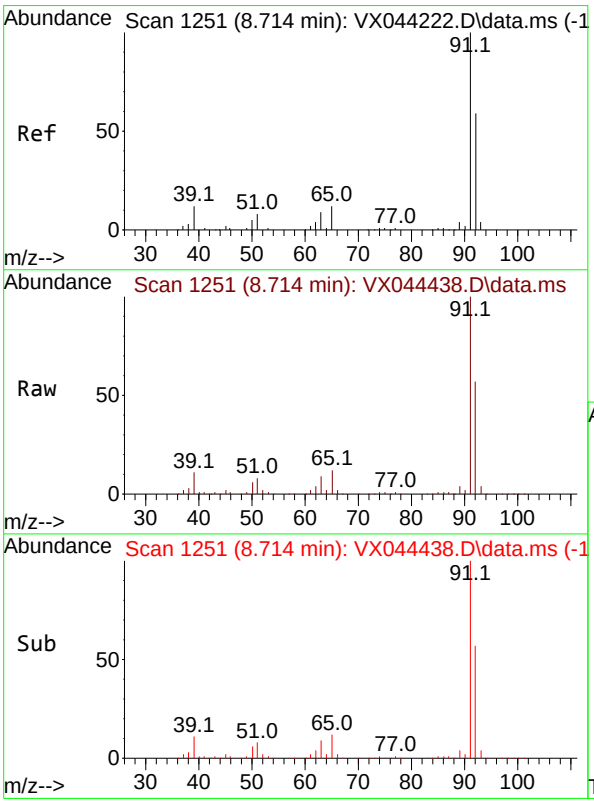
#51
4-Methyl-2-Pentanone
Concen: 257.494 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 647258

Ion	Ratio	Lower	Upper
43	100		
58	37.4	29.4	44.0

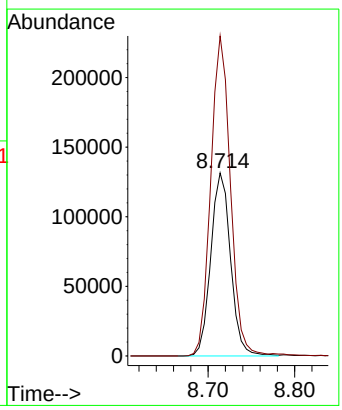


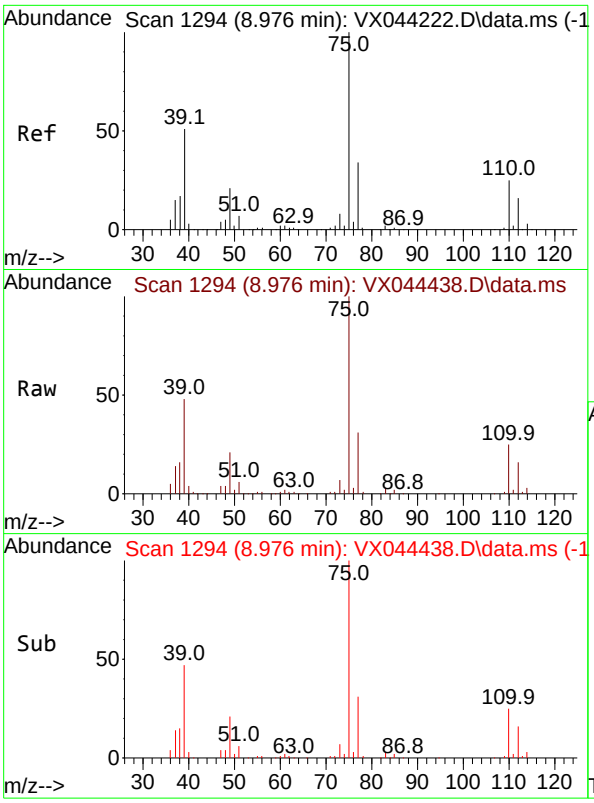


#52
Toluene
Concen: 54.120 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 92 Resp: 208798

Ion	Ratio	Lower	Upper
92	100		
91	174.6	137.0	205.6



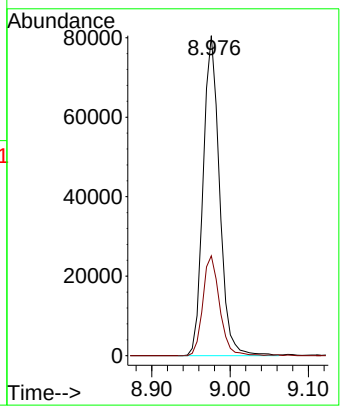


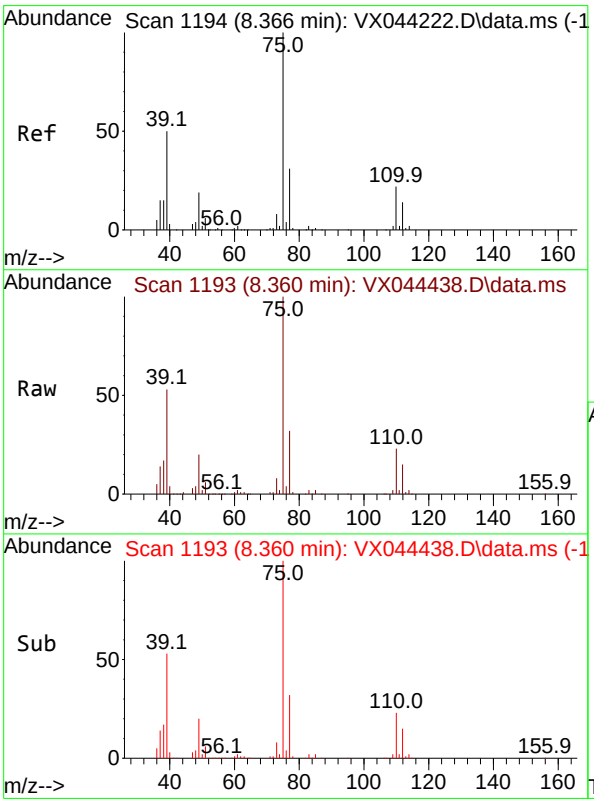
#53
t-1,3-Dichloropropene
Concen: 51.640 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 116841

Ion	Ratio	Lower	Upper
75	100		
77	31.2	27.2	40.8

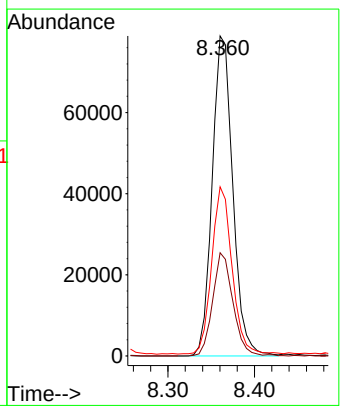


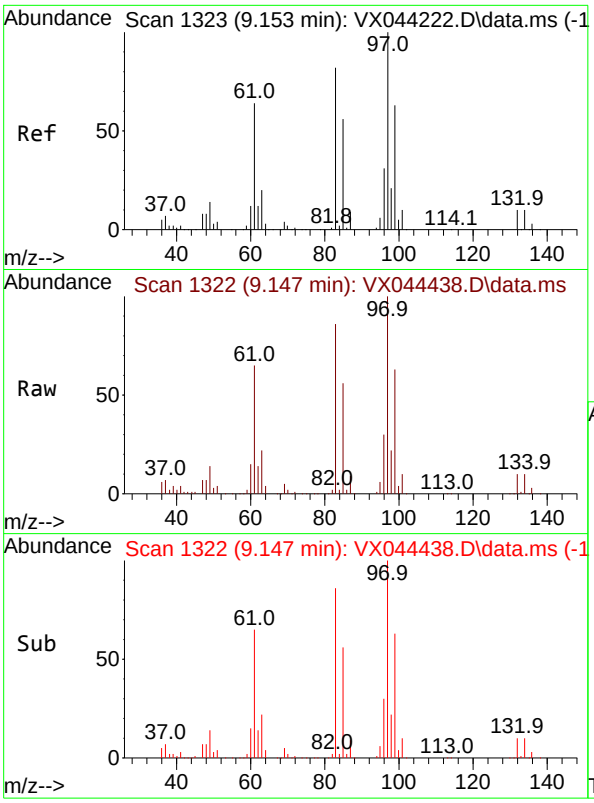


#54
cis-1,3-Dichloropropene
Concen: 56.913 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 130320

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.7	37.1
39	52.3	40.3	60.5



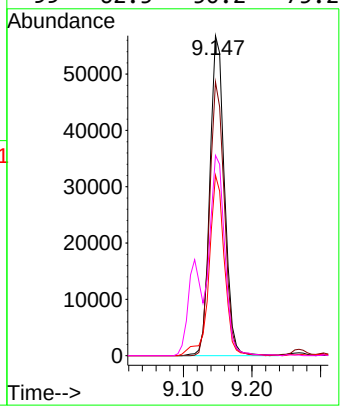


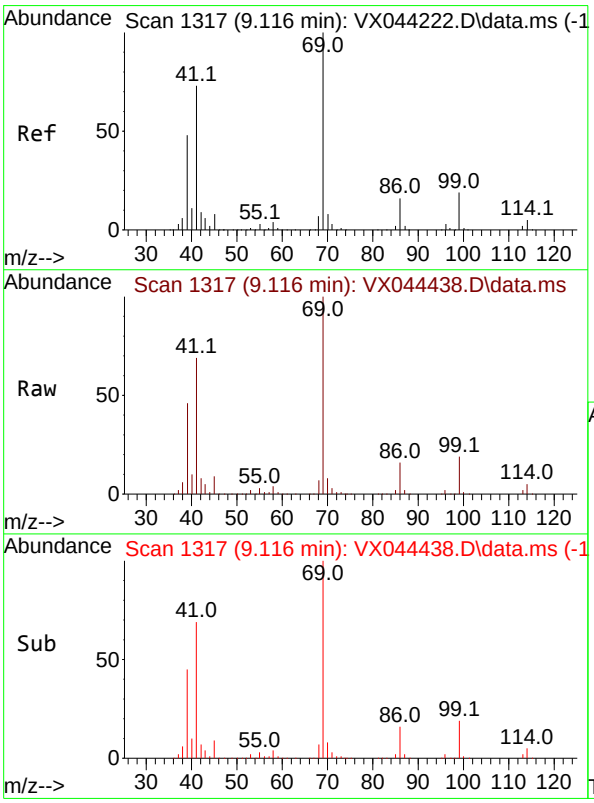
#55
1,1,2-Trichloroethane
Concen: 55.124 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 84487

Ion	Ratio	Lower	Upper
97	100		
83	85.6	65.3	97.9
85	56.4	44.6	67.0
99	62.5	50.2	75.2

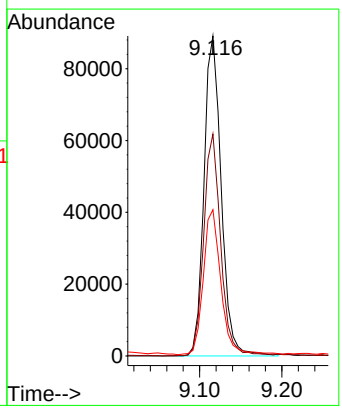


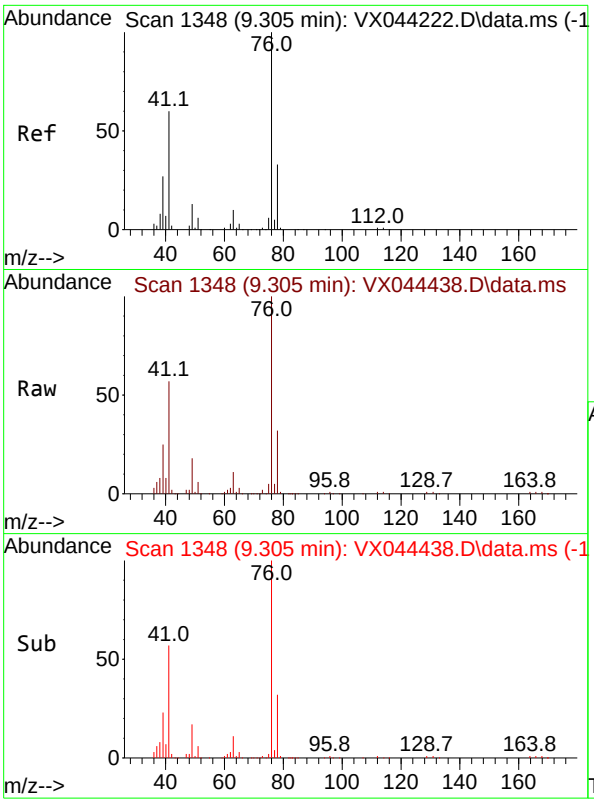


#56
Ethyl methacrylate
Concen: 53.800 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 69 Resp: 130175

Ion	Ratio	Lower	Upper
69	100		
41	68.3	56.6	85.0
39	46.2	37.4	56.0



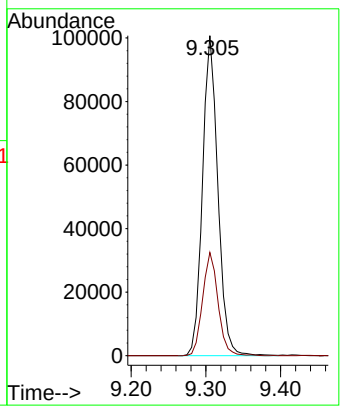


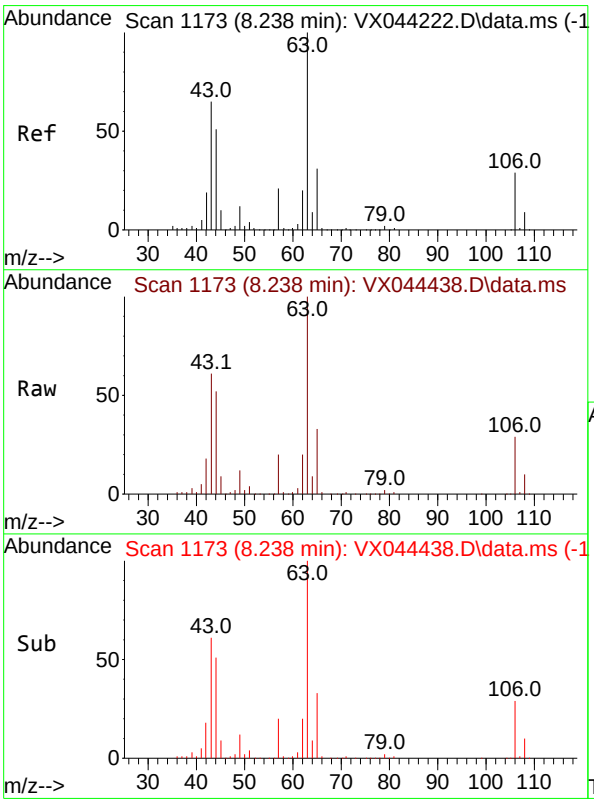
#57
1,3-Dichloropropane
Concen: 53.824 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 143590

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.5	39.7

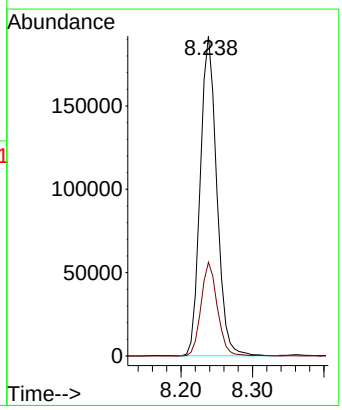


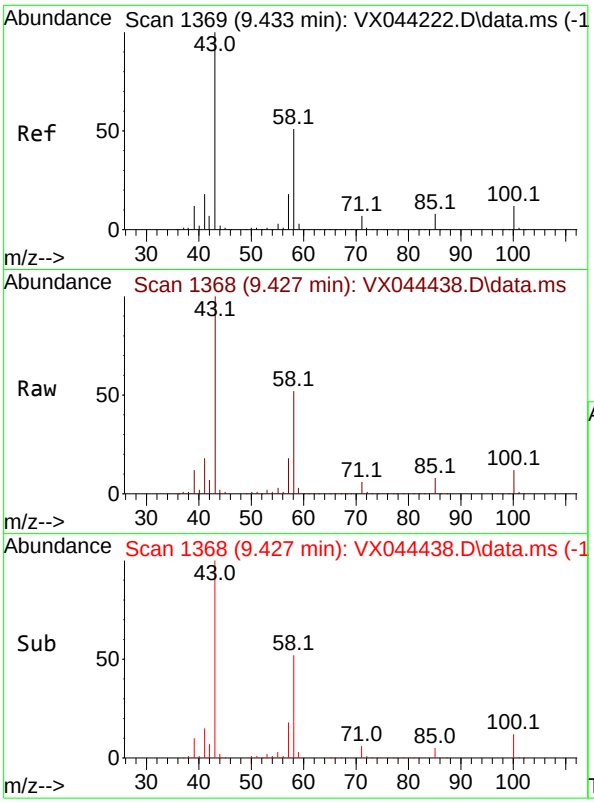


#58
2-Chloroethyl Vinyl ether
Concen: 252.070 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 63 Resp: 307620

Ion	Ratio	Lower	Upper
63	100		
106	29.0	22.8	34.2



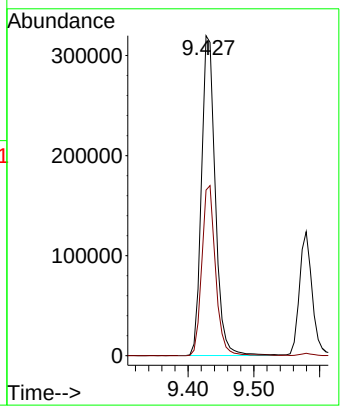


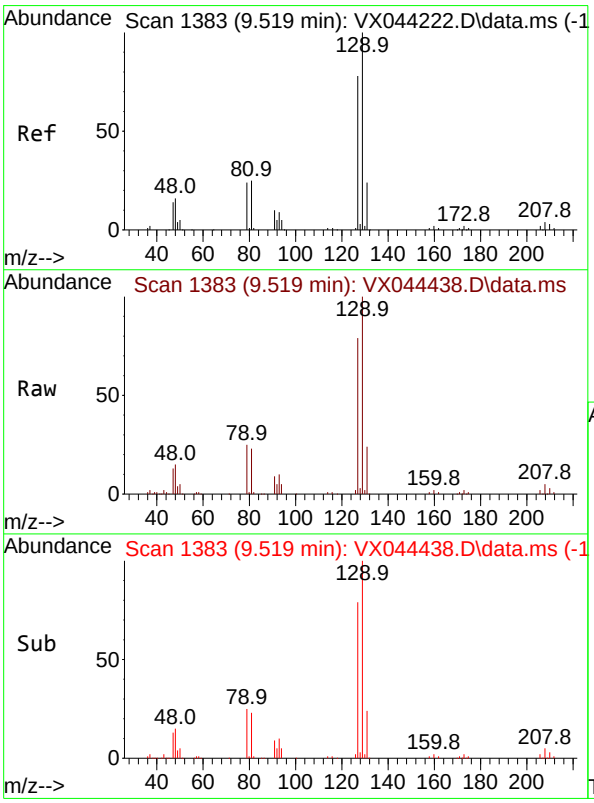
#59
2-Hexanone
Concen: 256.860 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 467347

Ion	Ratio	Lower	Upper
43	100		
58	53.0	25.7	77.0

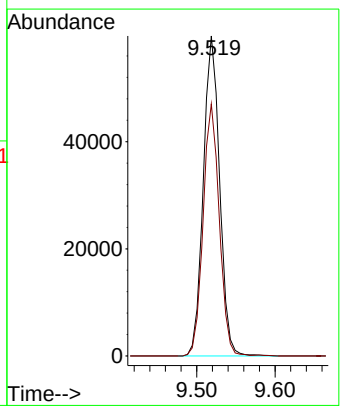


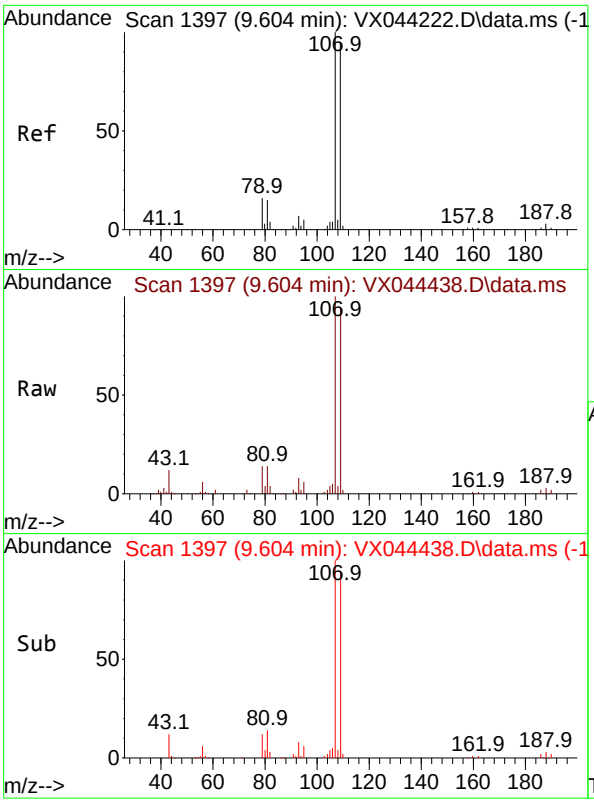


#60
Dibromochloromethane
Concen: 52.901 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:129 Resp: 86207

Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.5	115.3



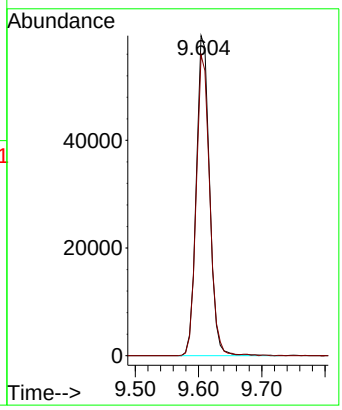


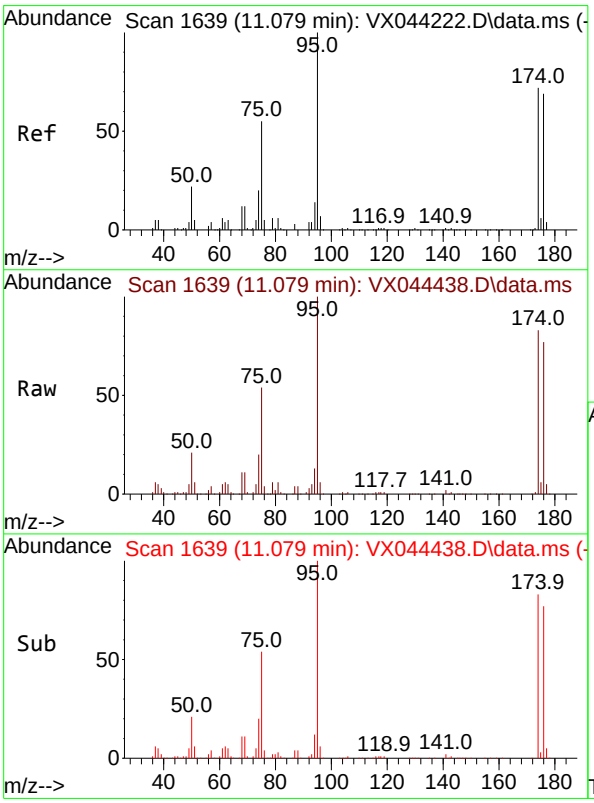
#61
1,2-Dibromoethane
Concen: 55.721 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 86930

Ion	Ratio	Lower	Upper
107	100		
109	95.3	77.0	115.4

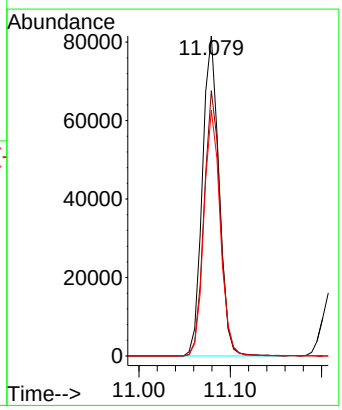


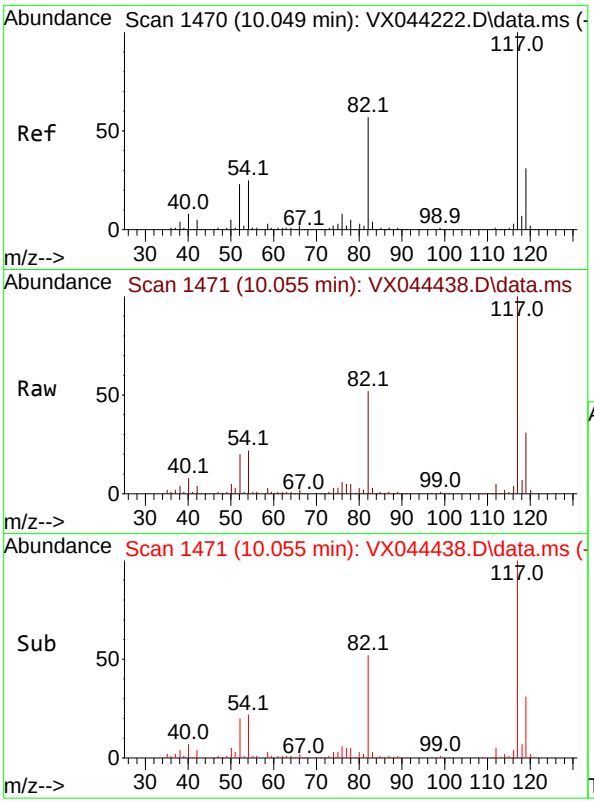


#62
4-Bromofluorobenzene
Concen: 55.640 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 95 Resp: 102676

Ion	Ratio	Lower	Upper
95	100		
174	81.4	0.0	145.8
176	75.6	0.0	137.8



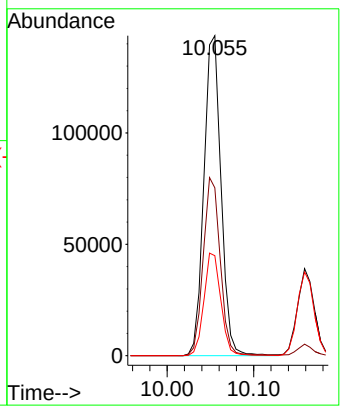


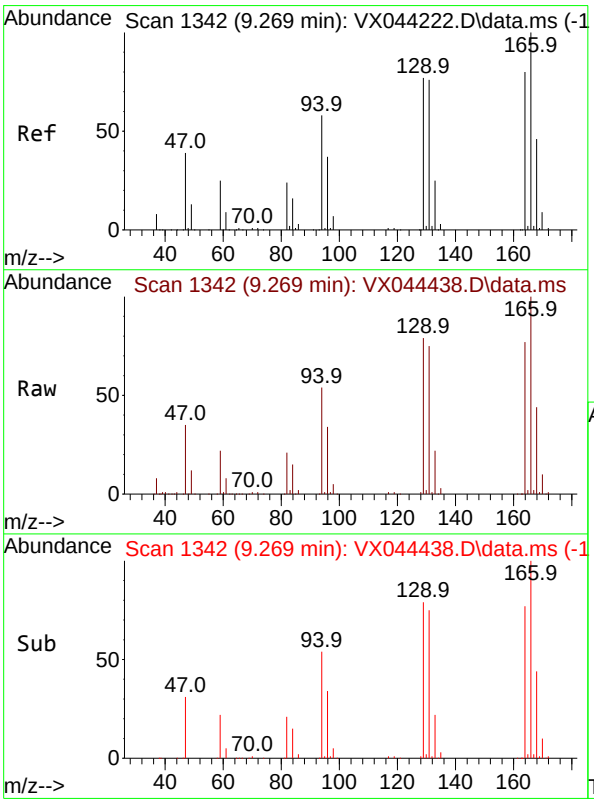
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 197543

Ion	Ratio	Lower	Upper
117	100		
82	52.5	45.8	68.8
119	31.3	25.0	37.4

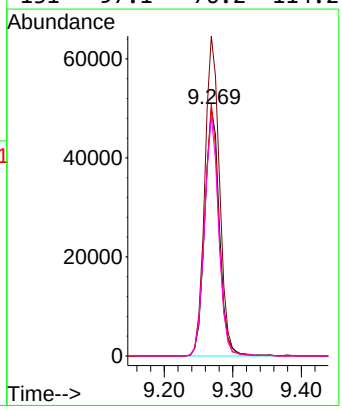


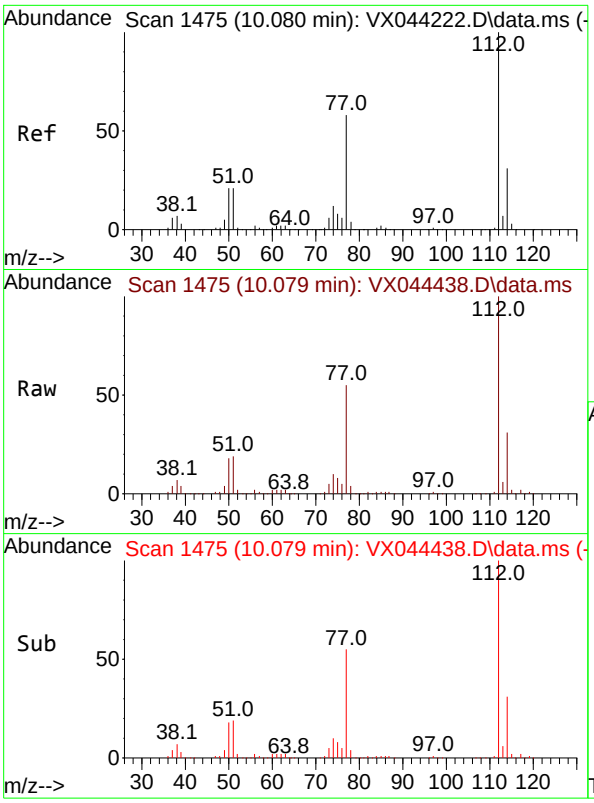


#64
Tetrachloroethene
Concen: 57.001 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:164 Resp: 74735

Ion	Ratio	Lower	Upper
164	100		
166	129.3	100.4	150.6
129	101.8	77.2	115.8
131	97.1	76.2	114.2



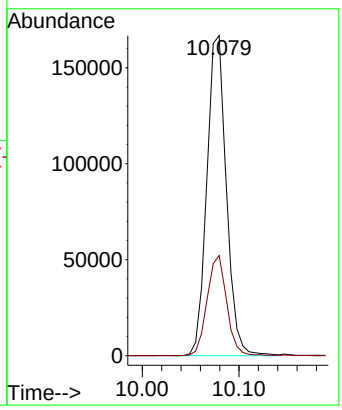


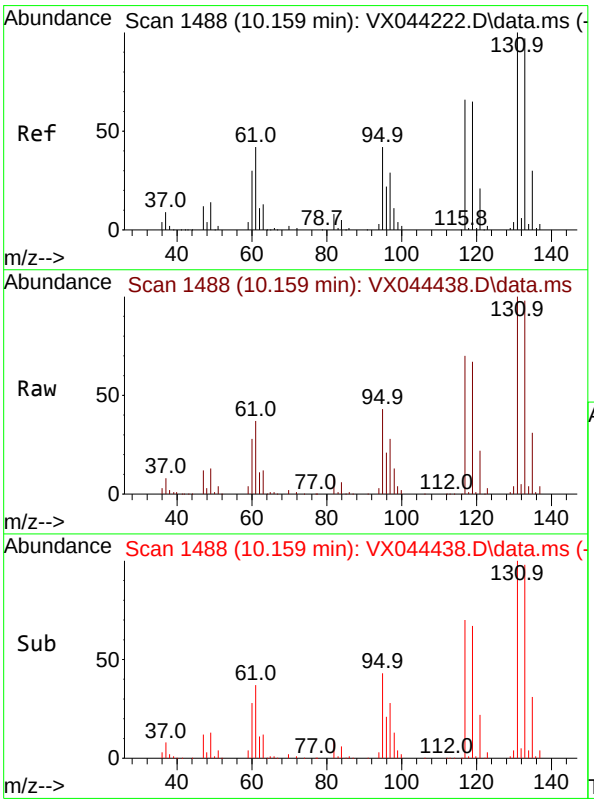
#65
Chlorobenzene
Concen: 55.402 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 234513

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6

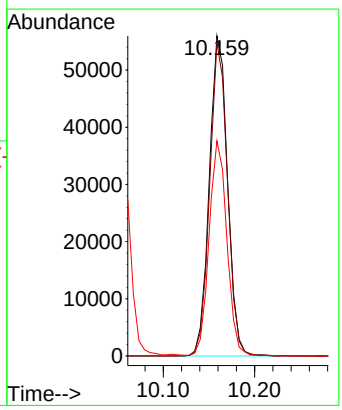


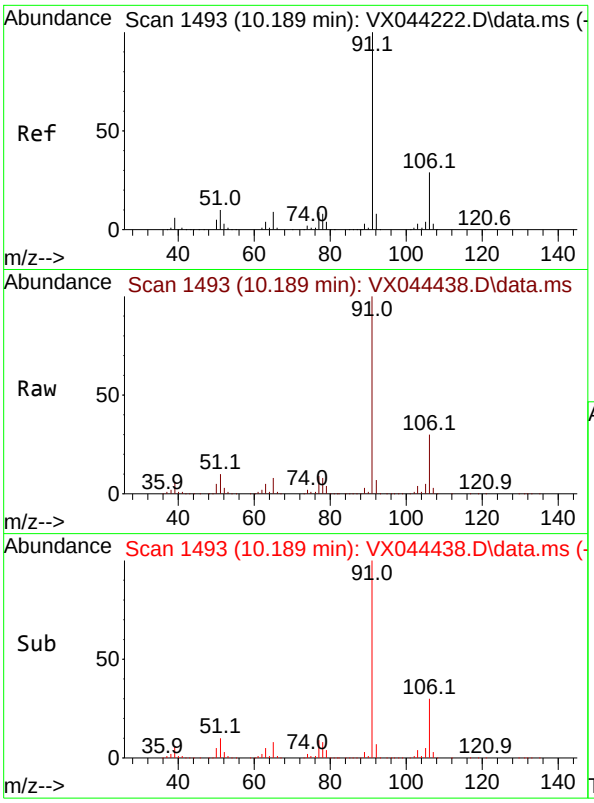


#66
1,1,1,2-Tetrachloroethane
Concen: 56.959 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:131 Resp: 77487

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.3	141.8
119	65.6	31.6	95.0



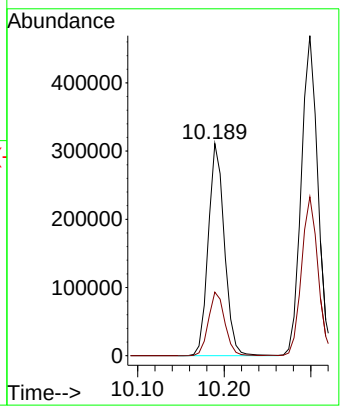


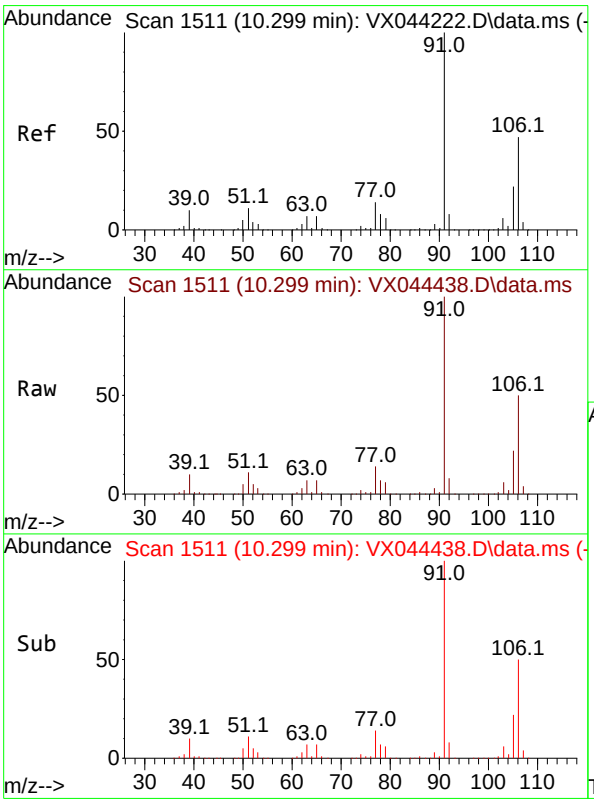
#67
Ethyl Benzene
Concen: 54.936 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 401792

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.5	35.3

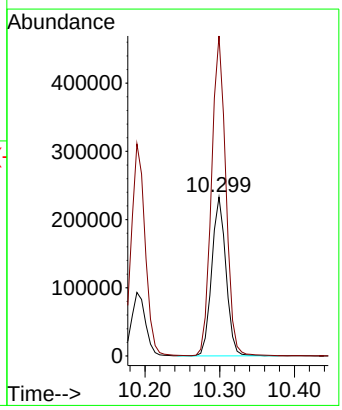


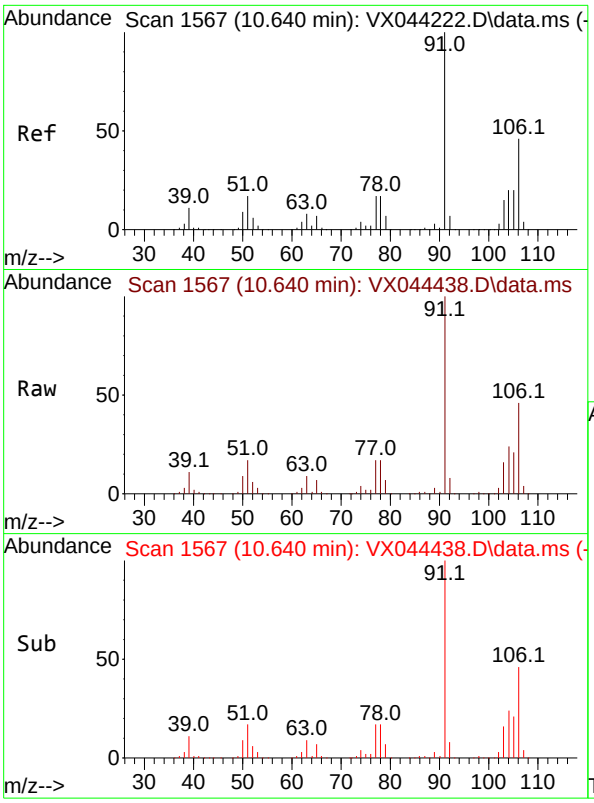


#68
m/p-Xylenes
Concen: 114.771 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:106 Resp: 308013

Ion	Ratio	Lower	Upper
106	100		
91	202.5	170.2	255.2



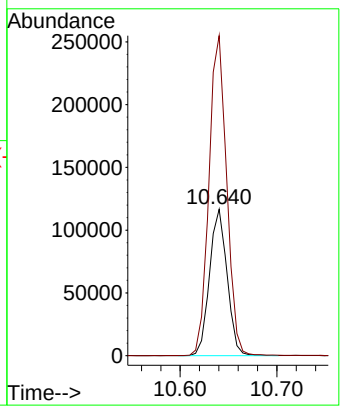


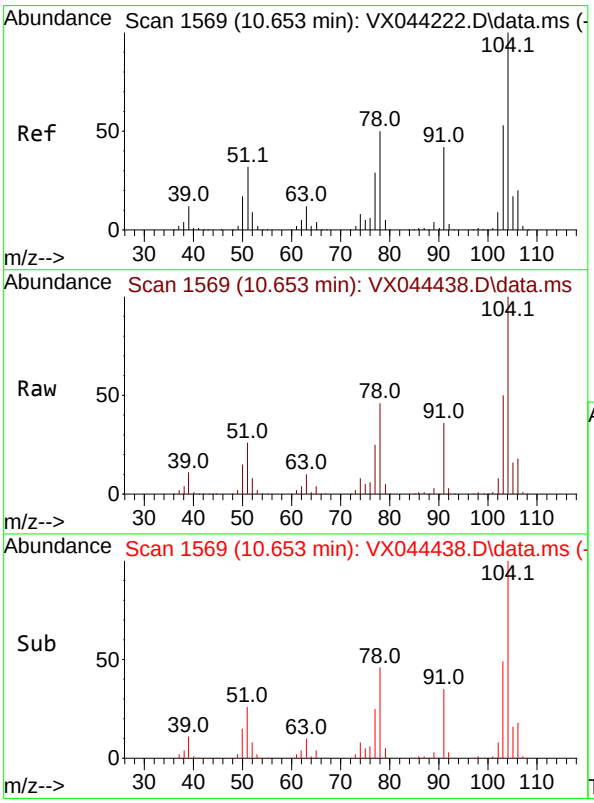
#69
o-Xylene
Concen: 54.389 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 147688

Ion	Ratio	Lower	Upper
106	100		
91	220.8	112.3	337.0

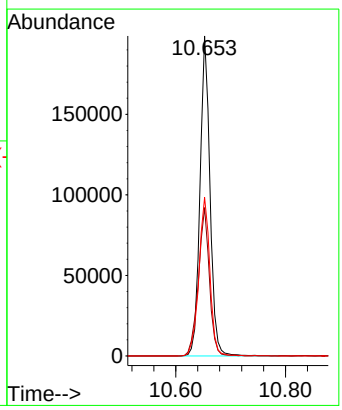


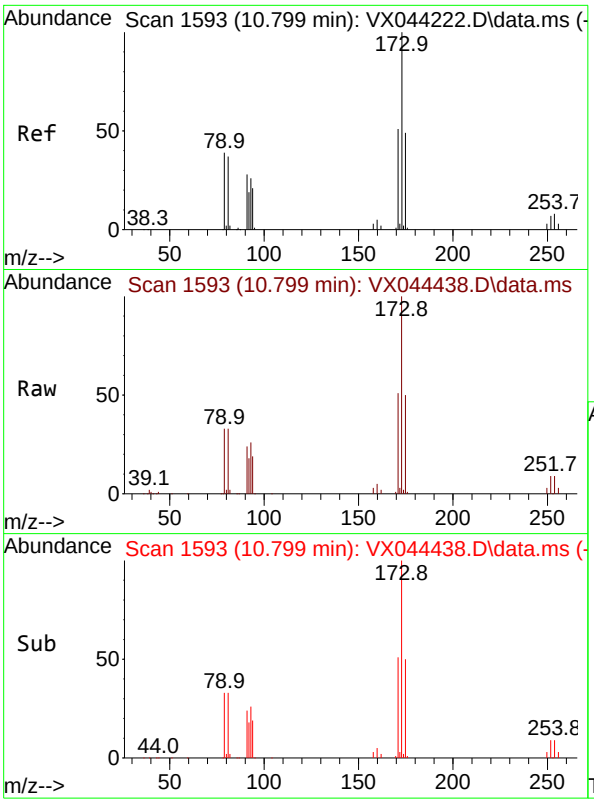


#70
Styrene
Concen: 57.862 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:104 Resp: 251875

Ion	Ratio	Lower	Upper
104	100		
78	51.5	44.6	67.0
103	54.8	45.4	68.0



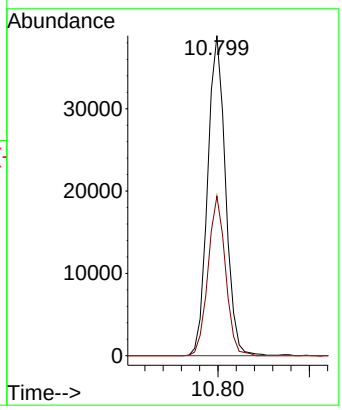


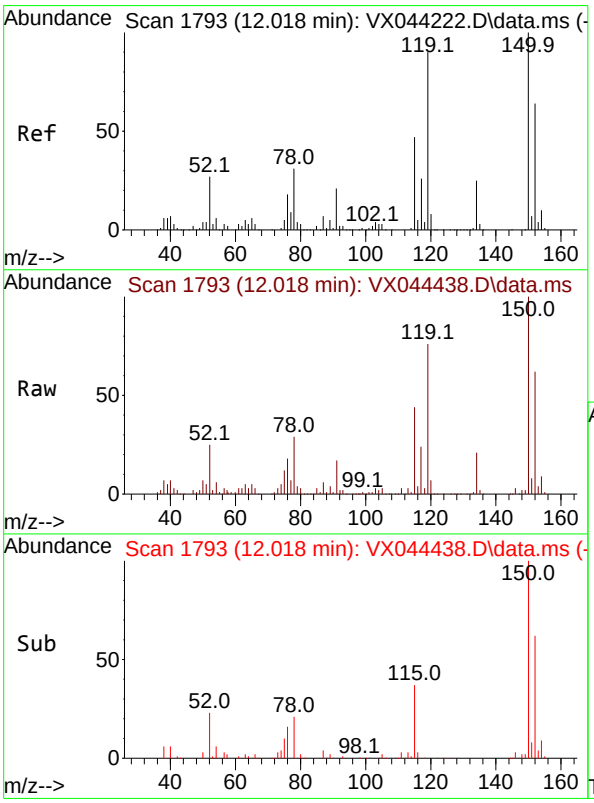
#71
Bromoform
Concen: 54.671 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 52602

Ion	Ratio	Lower	Upper
173	100		
175	48.7	23.8	71.4
254	0.0	0.0	0.0

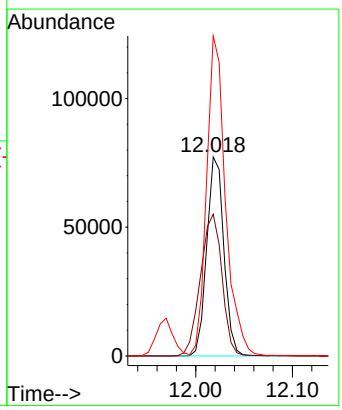


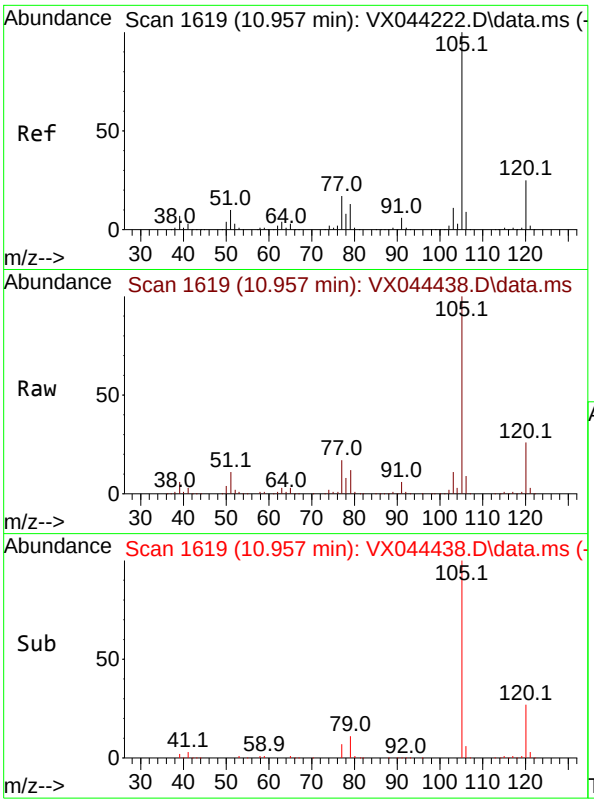


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:152 Resp: 95339

Ion	Ratio	Lower	Upper
152	100		
115	89.6	44.5	133.3
150	177.4	0.0	353.8



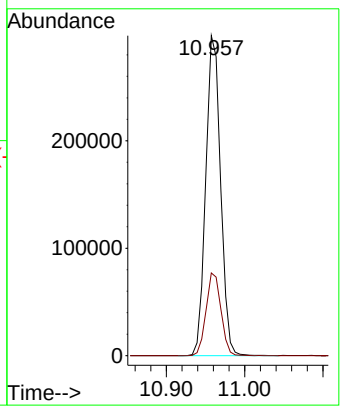


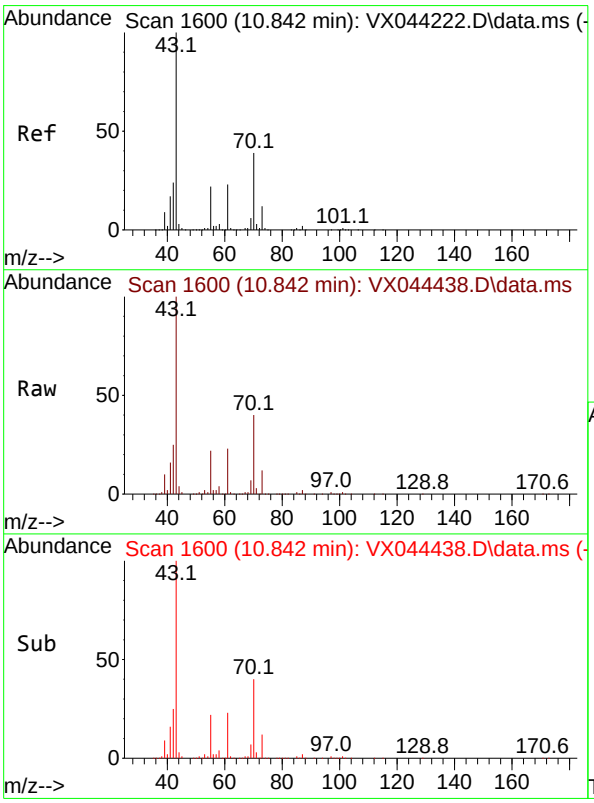
#73
Isopropylbenzene
Concen: 53.495 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 390438

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.3

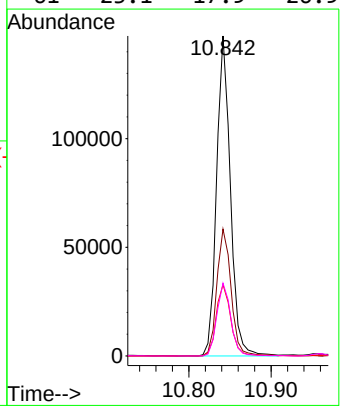


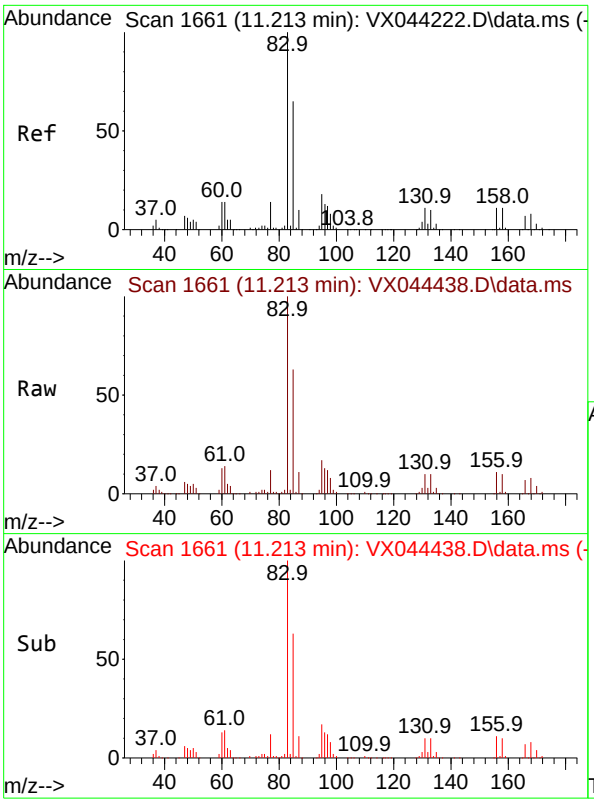


#74
N-amyl acetate
Concen: 50.885 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 171638

Ion	Ratio	Lower	Upper
43	100		
70	41.1	31.9	47.9
55	23.7	17.9	26.9
61	23.1	17.9	26.9



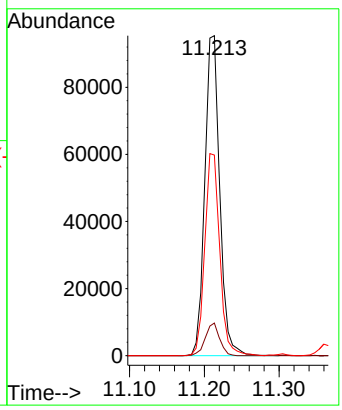


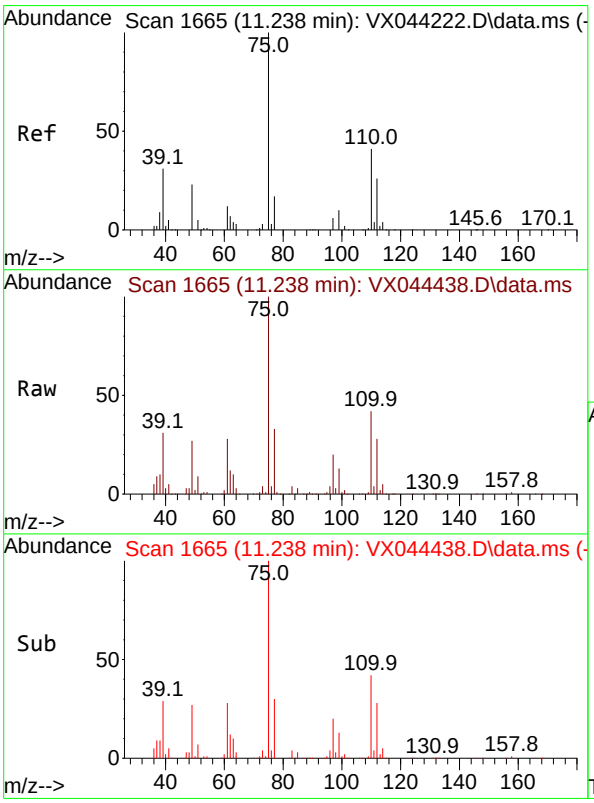
#75
1,1,2,2-Tetrachloroethane
Concen: 52.145 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 132190

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.4
85	63.4	32.5	97.4

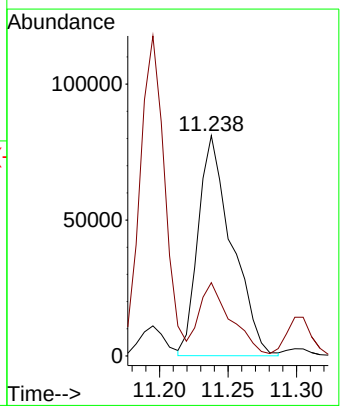


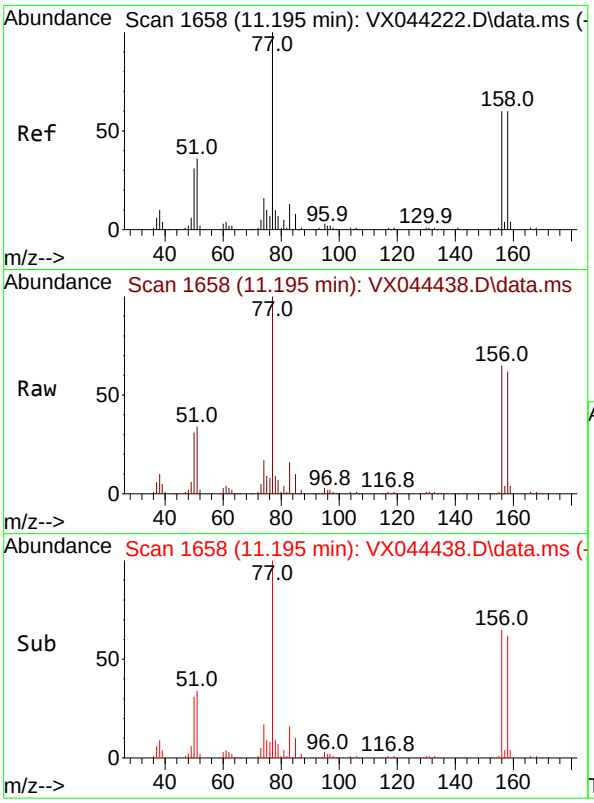


#76
1,2,3-Trichloropropane
Concen: 65.305 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 139014

Ion	Ratio	Lower	Upper
75	100		
77	31.7	20.9	62.7



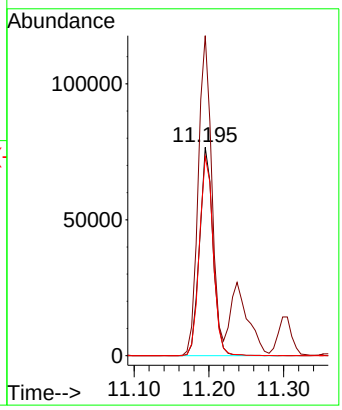


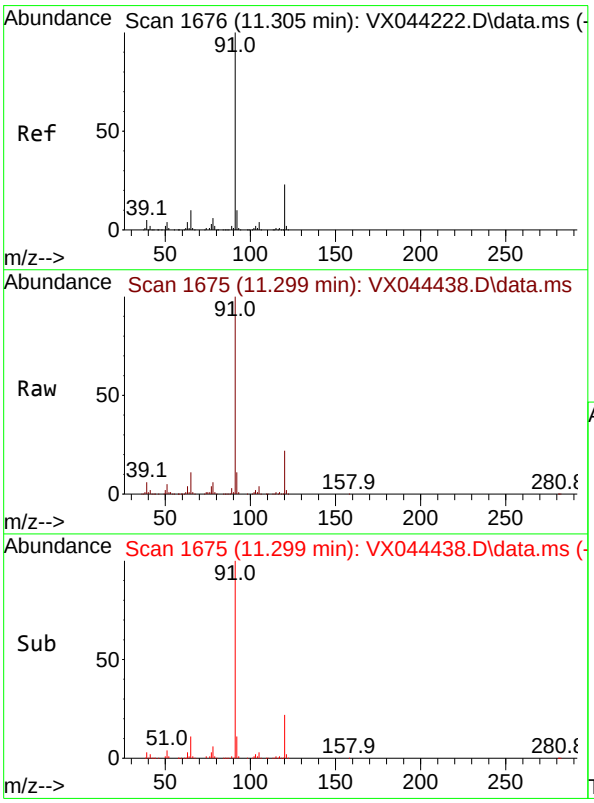
#77
Bromobenzene
Concen: 53.953 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 95489

Ion	Ratio	Lower	Upper
156	100		
77	155.1	82.6	247.8
158	98.5	48.8	146.4

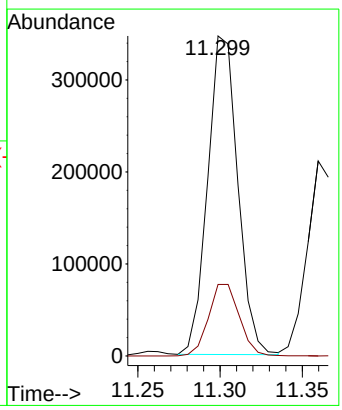


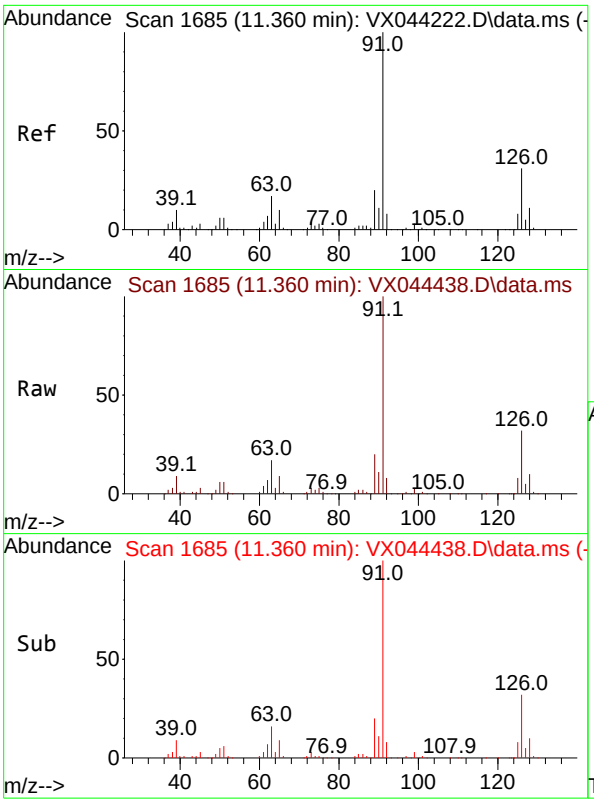


#78
n-propylbenzene
Concen: 54.741 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 91 Resp: 441589

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.0	33.0



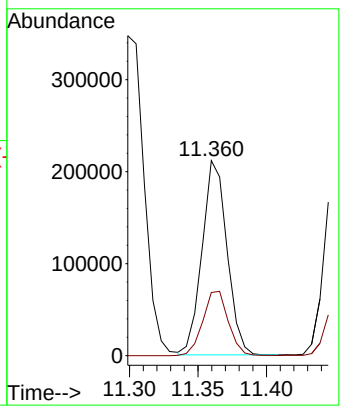


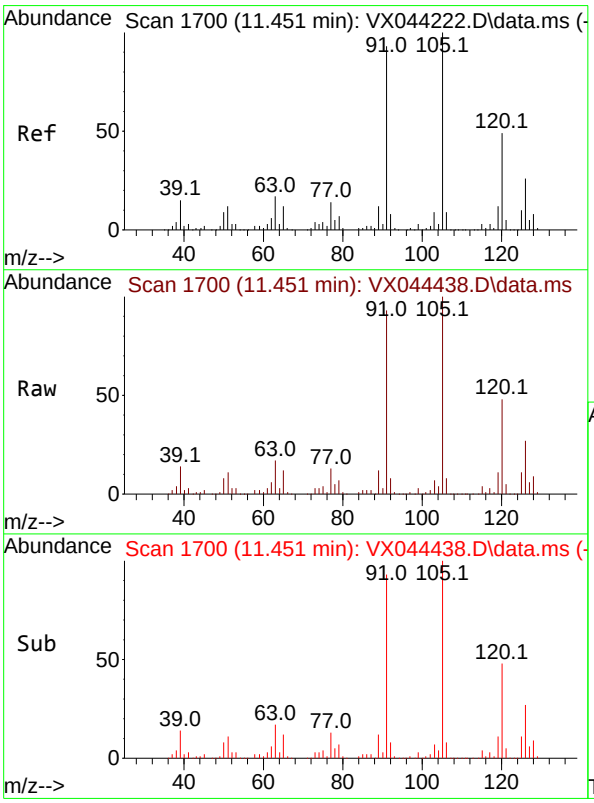
#79
2-Chlorotoluene
Concen: 51.311 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 267690

Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.4	49.1

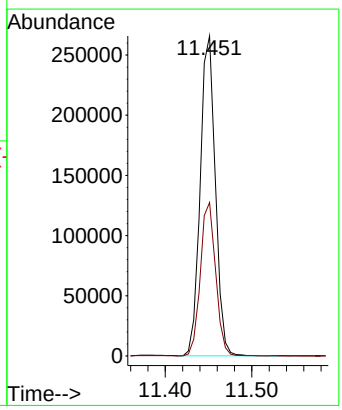


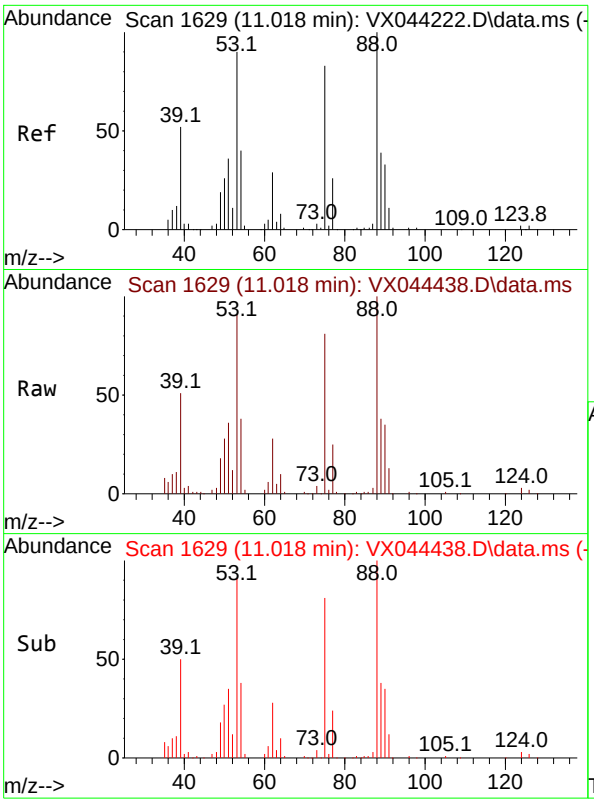


#80
1,3,5-Trimethylbenzene
Concen: 53.284 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:105 Resp: 322510

Ion	Ratio	Lower	Upper
105	100		
120	48.5	23.8	71.4



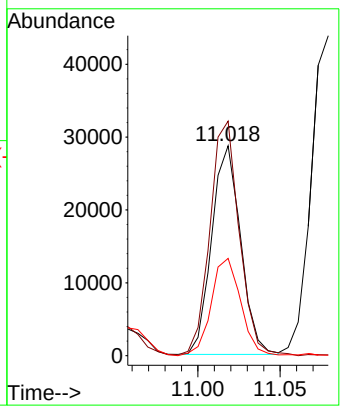


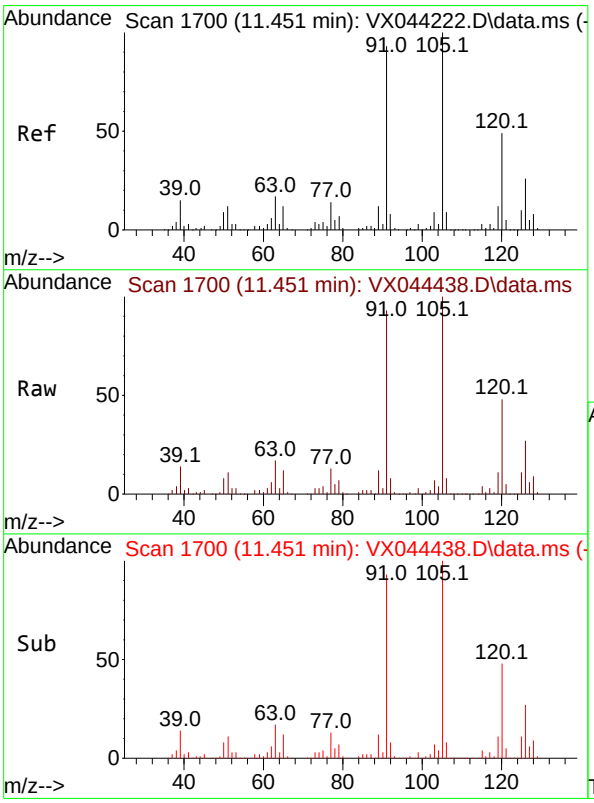
#81
trans-1,4-Dichloro-2-butene
Concen: 47.498 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 35051

Ion	Ratio	Lower	Upper
75	100		
53	114.3	93.6	140.4
89	47.8	37.3	55.9

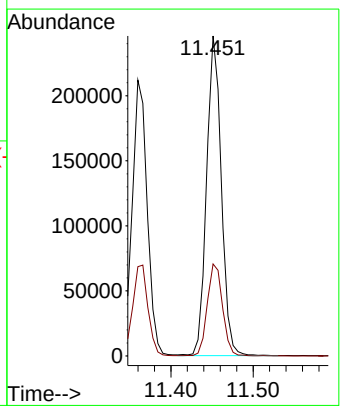


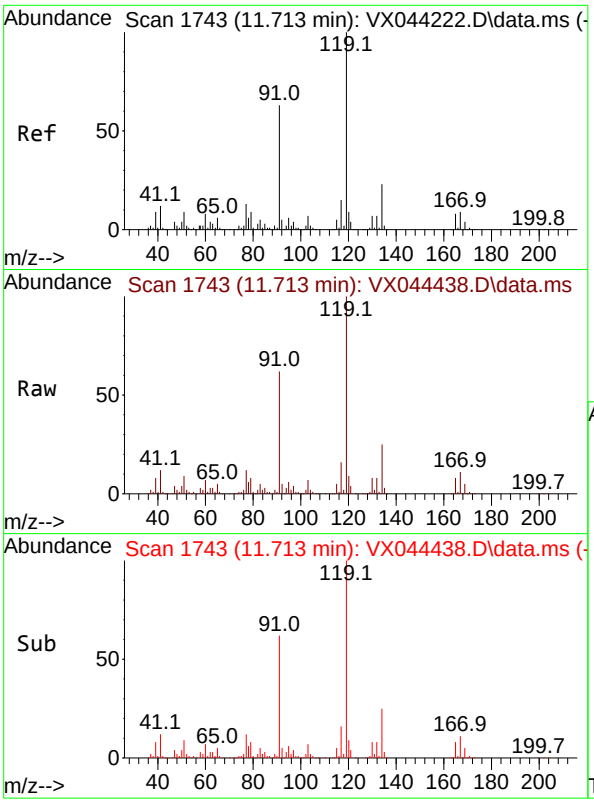


#82
4-Chlorotoluene
Concen: 52.929 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 91 Resp: 305777

Ion	Ratio	Lower	Upper
91	100		
126	29.7	14.5	43.5



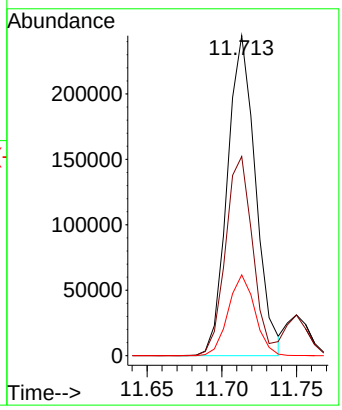


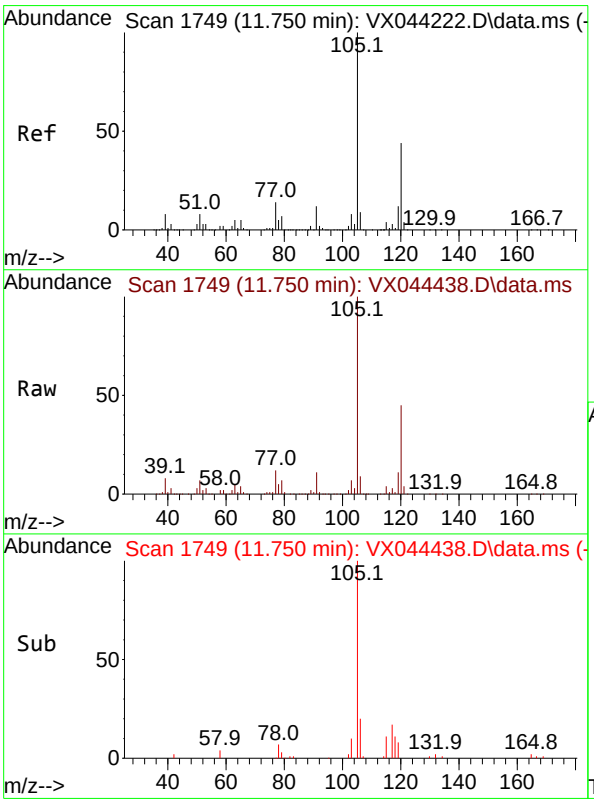
#83
tert-Butylbenzene
Concen: 53.600 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 320615

Ion	Ratio	Lower	Upper
119	100		
91	59.4	30.9	92.5
134	24.0	11.5	34.4

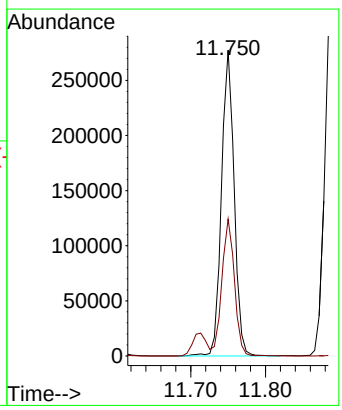


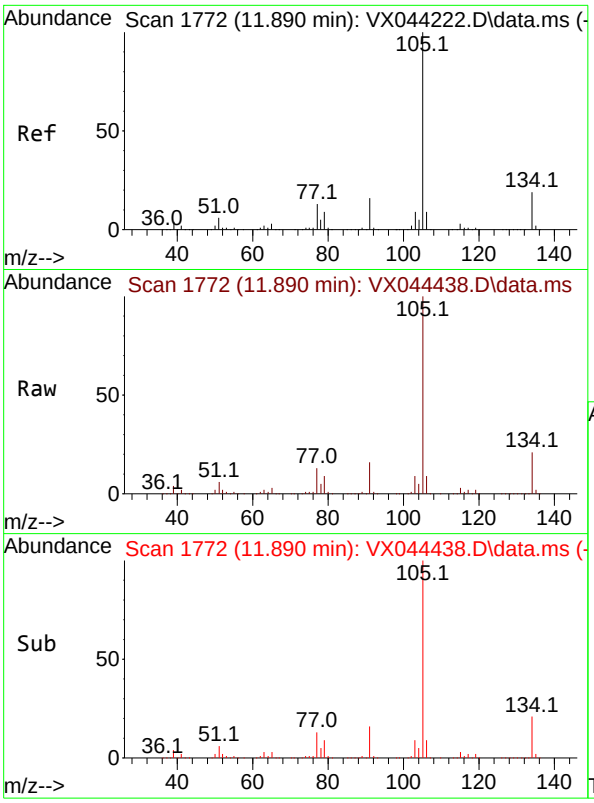


#84
1,2,4-Trimethylbenzene
Concen: 55.123 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:105 Resp: 327657

Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.7	65.1



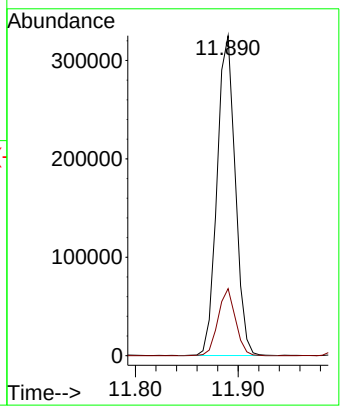


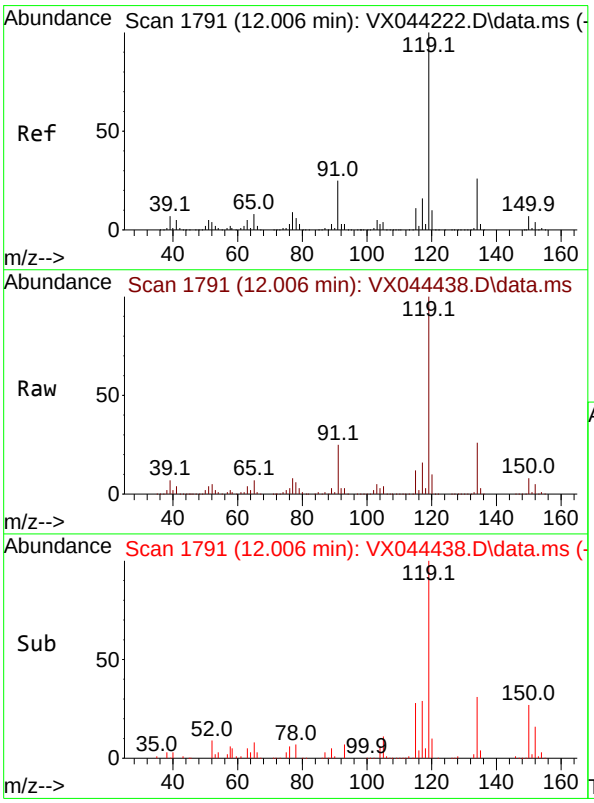
#85
sec-Butylbenzene
Concen: 54.989 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 399310

Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.8	29.4

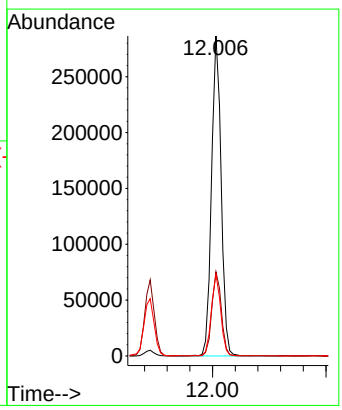


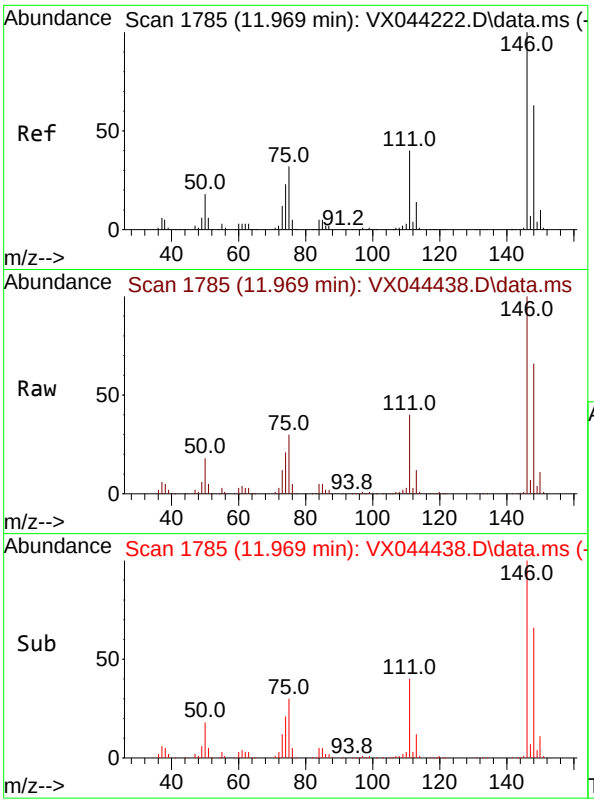


#86
p-Isopropyltoluene
Concen: 55.691 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:119 Resp: 336593

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	24.8	13.0	39.0



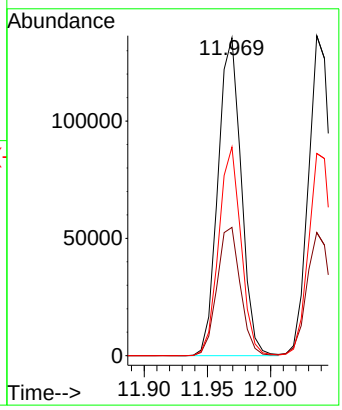


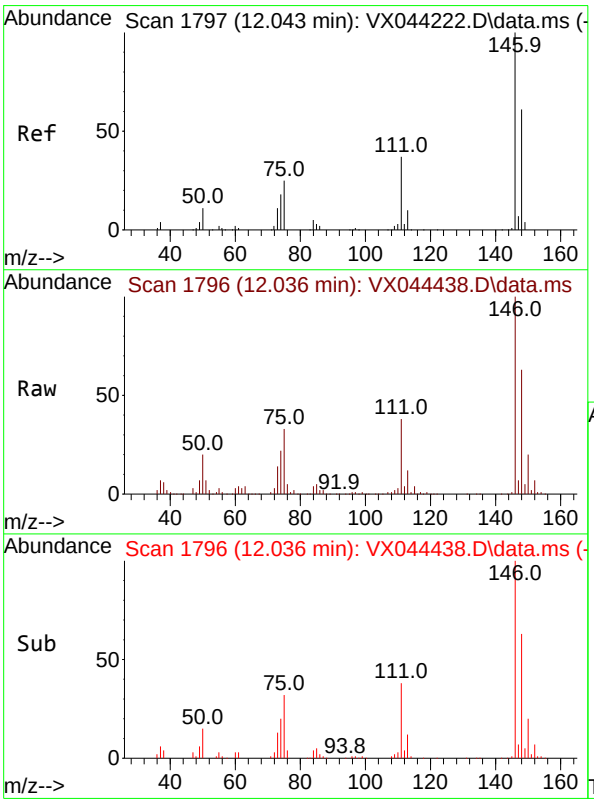
#87
1,3-Dichlorobenzene
Concen: 55.839 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 172628

Ion	Ratio	Lower	Upper
146	100		
111	40.7	21.4	64.2
148	63.2	31.7	95.1

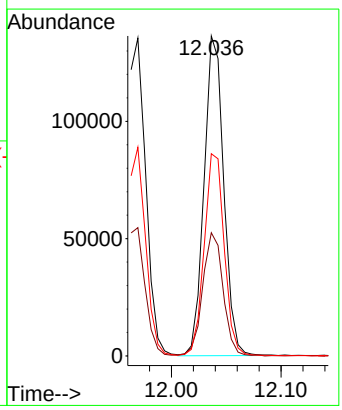


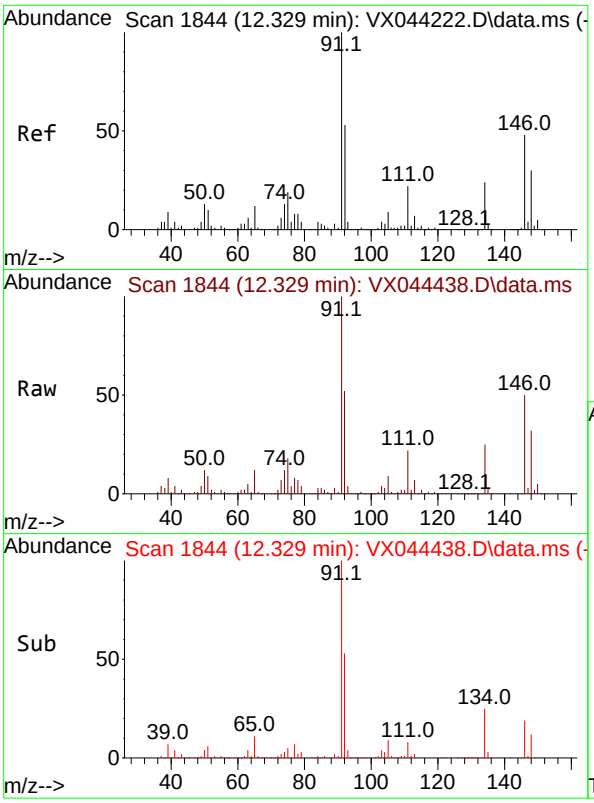


#88
1,4-Dichlorobenzene
Concen: 53.422 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:146 Resp: 169778

Ion	Ratio	Lower	Upper
146	100		
111	39.9	21.0	63.0
148	65.0	32.3	96.8



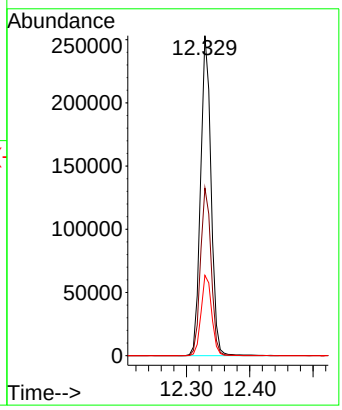


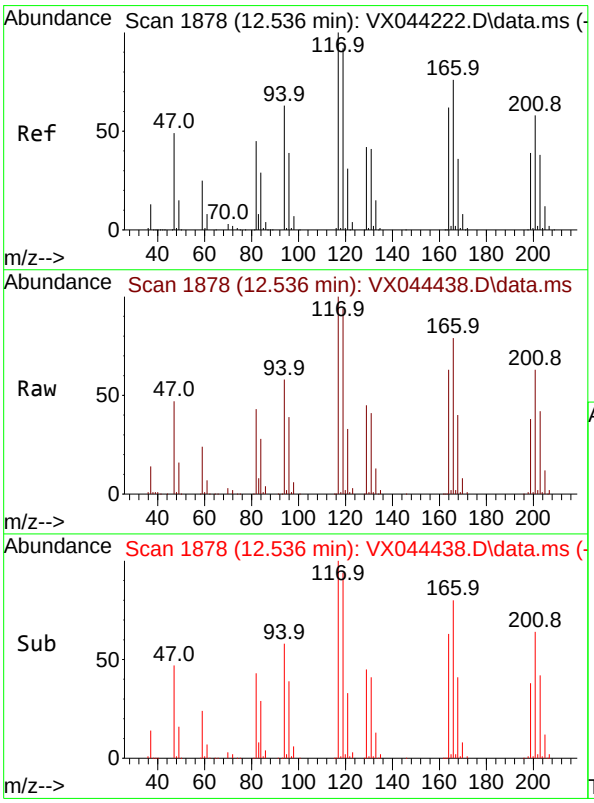
#89
n-Butylbenzene
Concen: 57.503 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 292244

Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.6	79.7
134	25.5	12.6	37.8

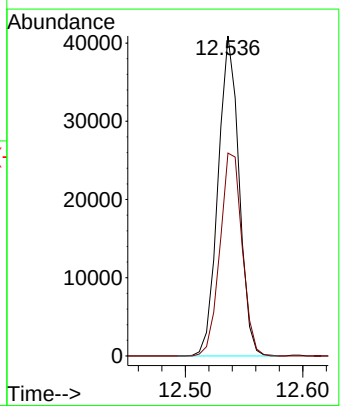


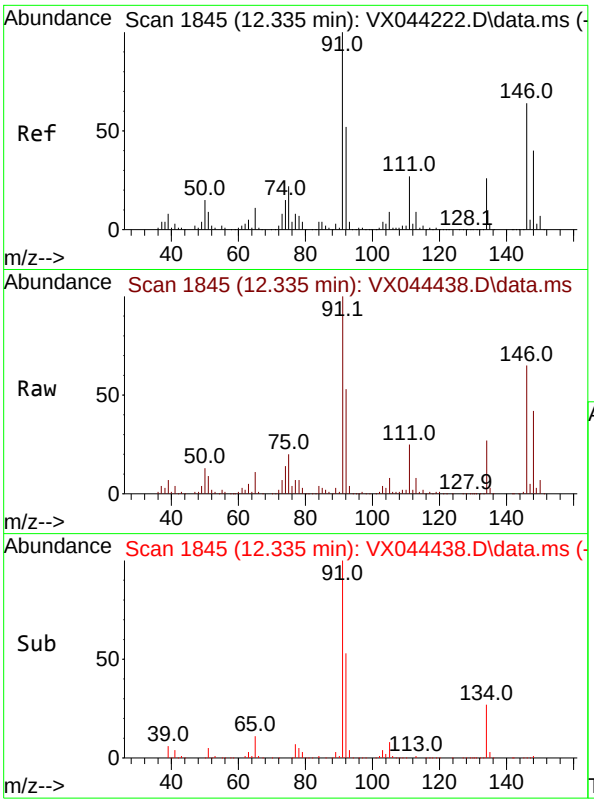


#90
Hexachloroethane
Concen: 57.385 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:117 Resp: 50629

Ion	Ratio	Lower	Upper
117	100		
201	67.2	31.4	94.2



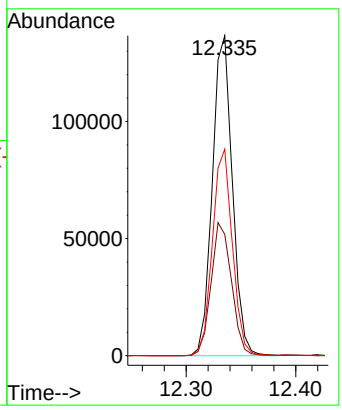


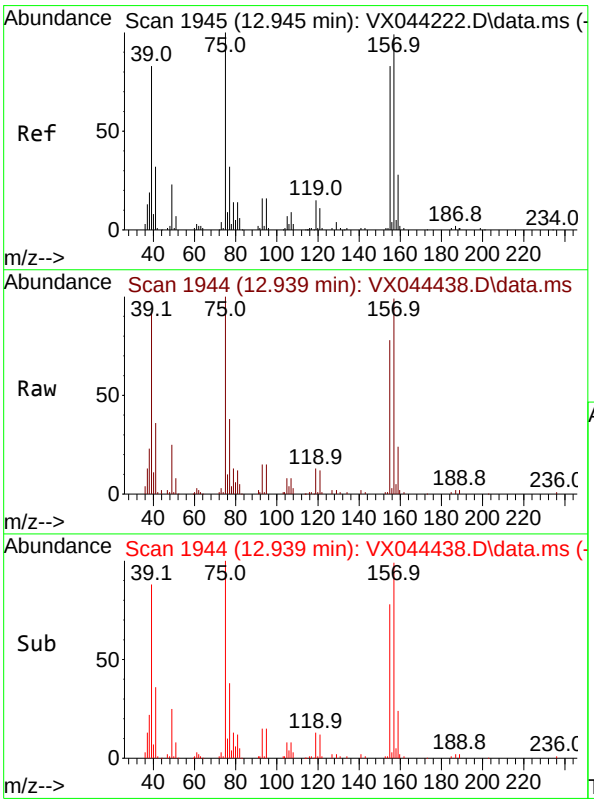
#91
1,2-Dichlorobenzene
Concen: 54.042 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 173478

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.4	64.3
148	64.2	31.6	95.0

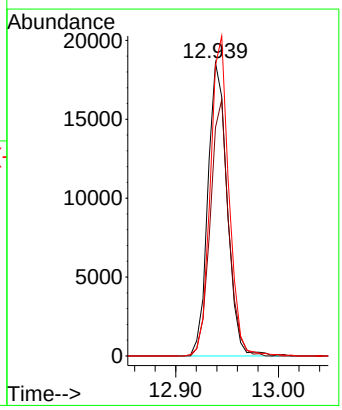


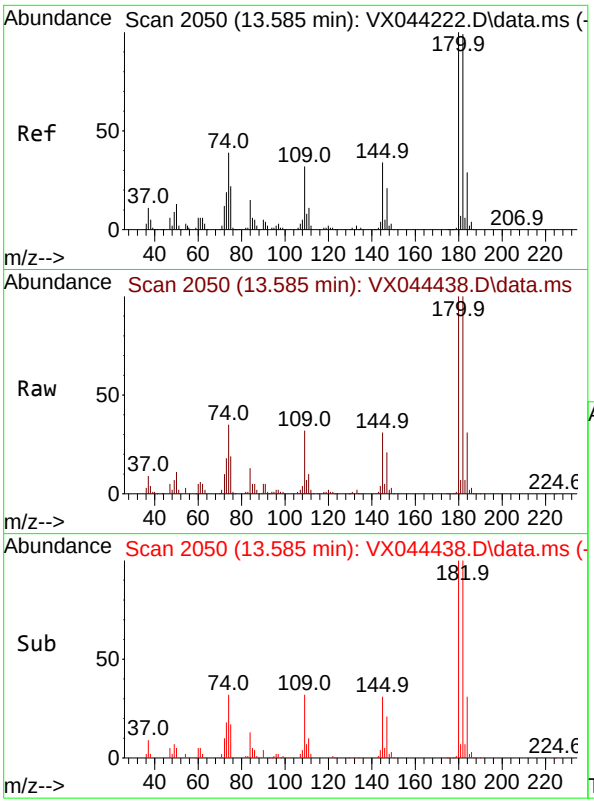


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.022 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 24124

Ion	Ratio	Lower	Upper
75	100		
155	83.8	38.1	114.3
157	105.4	47.2	141.6



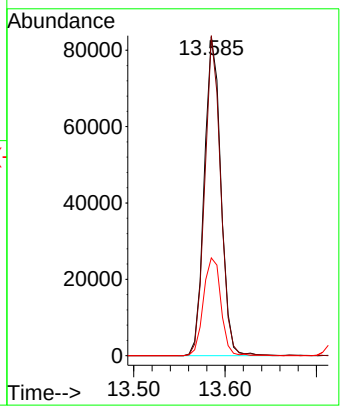


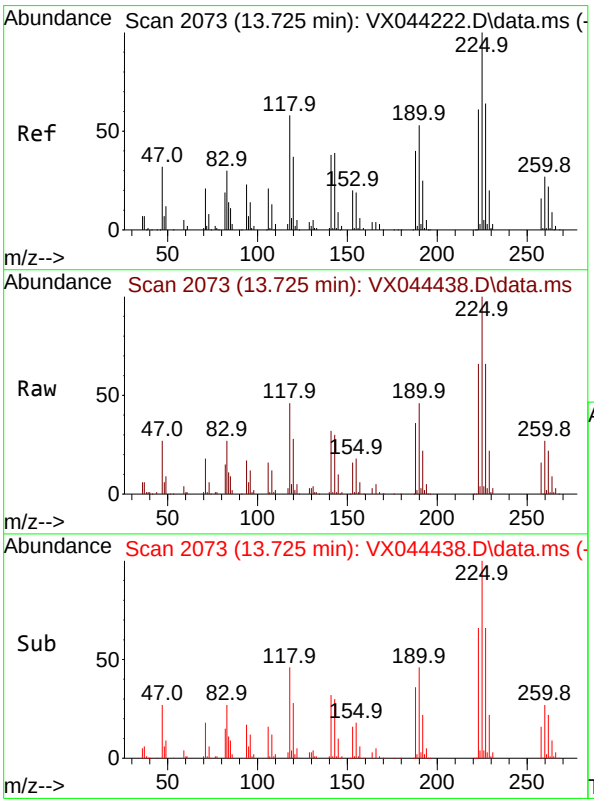
#93
1,2,4-Trichlorobenzene
Concen: 59.504 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 104720

Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.0	144.2
145	32.4	16.6	49.7

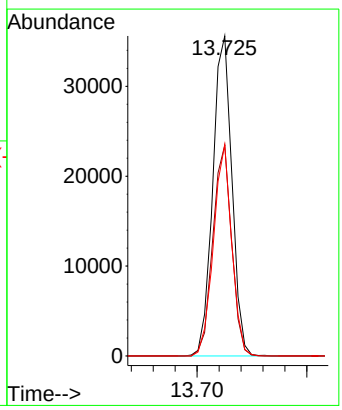


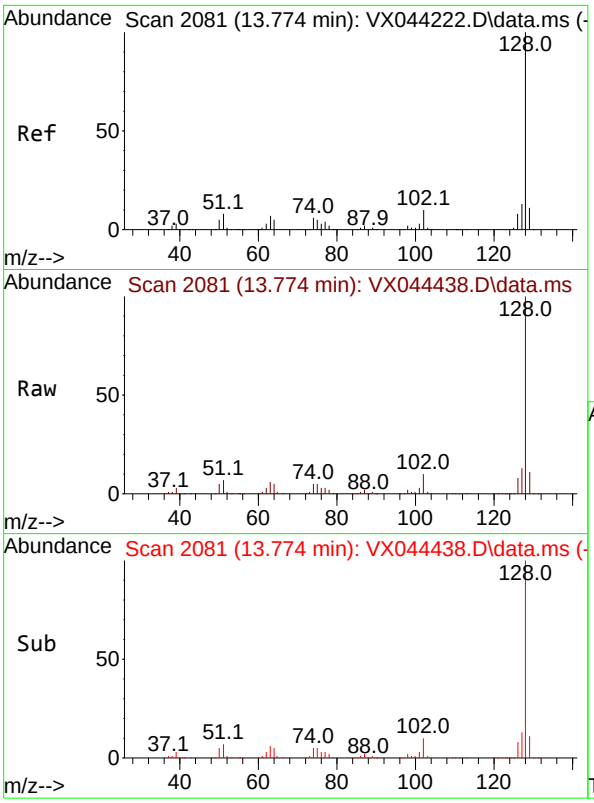


#94
Hexachlorobutadiene
Concen: 60.942 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:225 Resp: 43140

Ion	Ratio	Lower	Upper
225	100		
223	64.7	30.8	92.4
227	63.1	32.1	96.3



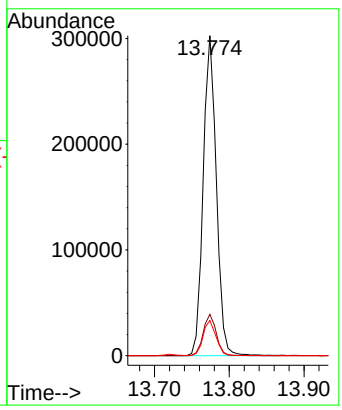


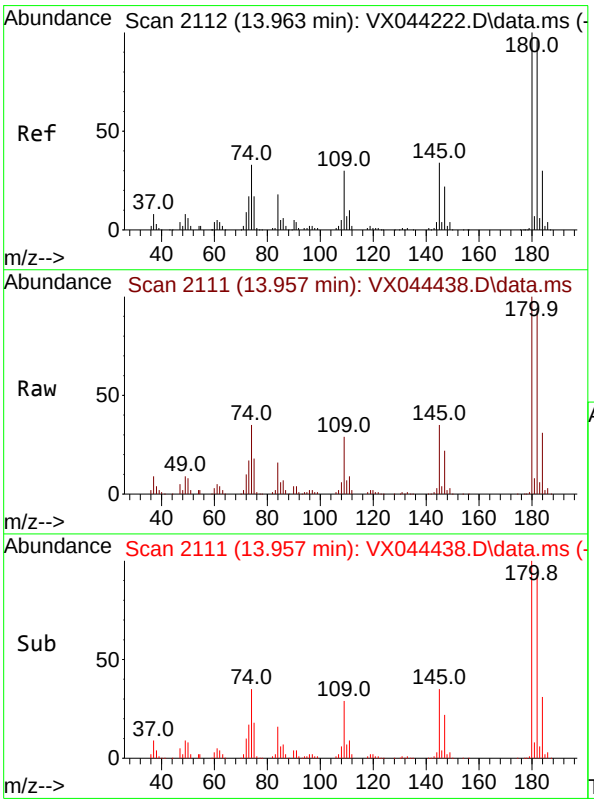
#95
Naphthalene
Concen: 53.772 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 369385

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.9	9.0	13.4

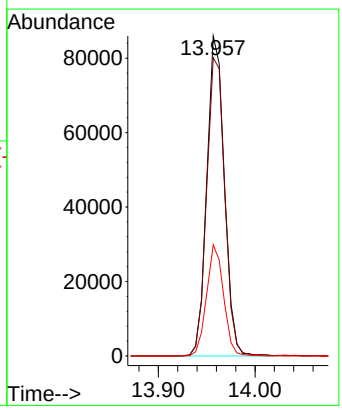




#96
1,2,3-Trichlorobenzene
Concen: 58.216 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:180 Resp: 108667

Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.0
145	33.6	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	146515	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	249173	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	212384	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	96885	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	109691	42.700	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 85.400%			
35) Dibromofluoromethane	5.379	113	83769	48.541	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.080%			
50) Toluene-d8	8.647	98	283358	48.669	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.340%			
62) 4-Bromofluorobenzene	11.079	95	94485	46.443	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.880%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	41893	18.492	ug/l	95
3) Chloromethane	1.294	50	40546	18.715	ug/l	99
4) Vinyl Chloride	1.374	62	40370	17.887	ug/l	97
5) Bromomethane	1.599	94	30109	18.804	ug/l	96
6) Chloroethane	1.666	64	27776	19.764	ug/l	99
7) Trichlorofluoromethane	1.874	101	67604	15.300	ug/l	99
8) Diethyl Ether	2.136	74	26079	17.291	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	33030	18.474	ug/l	94
10) Methyl Iodide	2.447	142	45795	19.434	ug/l	96
11) Tert butyl alcohol	2.989	59	33237	91.803	ug/l	96
12) 1,1-Dichloroethene	2.312	96	30995	18.873	ug/l	96
13) Acrolein	2.239	56	44044	84.041	ug/l	96
14) Allyl chloride	2.660	41	49108	17.953	ug/l	96
15) Acrylonitrile	3.068	53	90872	90.610	ug/l	99
16) Acetone	2.386	43	79327	75.745	ug/l	91
17) Carbon Disulfide	2.501	76	51100	16.369	ug/l	100
18) Methyl Acetate	2.703	43	47831	17.713	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	112975	17.629	ug/l	97
20) Methylene Chloride	2.782	84	37654	19.142	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	32618	18.688	ug/l	96
22) Diisopropyl ether	3.763	45	110674	17.968	ug/l	97
23) Vinyl Acetate	3.721	43	456052	91.069	ug/l	99
24) 1,1-Dichloroethane	3.605	63	64973	18.923	ug/l	98
25) 2-Butanone	4.562	43	124008	83.289	ug/l	98
26) 2,2-Dichloropropane	4.471	77	51269	18.380	ug/l	98
27) cis-1,2-Dichloroethene	4.489	96	39842	17.974	ug/l	97
28) Bromochloromethane	4.891	49	26535	15.760	ug/l	97
29) Tetrahydrofuran	5.007	42	81181	84.947	ug/l	99
30) Chloroform	5.092	83	68227	17.686	ug/l	99
31) Cyclohexane	5.470	56	48875	17.628	ug/l	93
32) 1,1,1-Trichloroethane	5.373	97	55907	17.459	ug/l	98
36) 1,1-Dichloropropene	5.690	75	41416	18.566	ug/l	97
37) Ethyl Acetate	4.721	43	48014	17.412	ug/l	96
38) Carbon Tetrachloride	5.672	117	45386	18.898	ug/l	93
39) Methylcyclohexane	7.373	83	51554	19.332	ug/l	98
40) Benzene	6.031	78	137885	20.358	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	26859	18.343	ug/l		98
42) 1,2-Dichloroethane	6.086	62	53588	19.207	ug/l		97
43) Isopropyl Acetate	6.342	43	79207	18.378	ug/l		99
44) Trichloroethene	7.123	130	33615	19.902	ug/l		88
45) 1,2-Dichloropropane	7.427	63	33011	19.077	ug/l		97
46) Dibromomethane	7.580	93	26495	19.737	ug/l		95
47) Bromodichloromethane	7.818	83	44357	19.132	ug/l		98
48) Methyl methacrylate	7.690	41	36154	17.281	ug/l		94
49) 1,4-Dioxane	7.671	88	10158	292.846	ug/l	#	79
51) 4-Methyl-2-Pentanone	8.574	43	255984	92.373	ug/l		99
52) Toluene	8.714	92	82957	19.504	ug/l		97
53) t-1,3-Dichloropropene	8.976	75	41417	17.860	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	48359	19.157	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	35148	20.801	ug/l		96
56) Ethyl methacrylate	9.116	69	48642	18.235	ug/l		100
57) 1,3-Dichloropropane	9.305	76	56644	19.260	ug/l		97
58) 2-Chloroethyl Vinyl ether	8.238	63	109022	81.033	ug/l		99
59) 2-Hexanone	9.433	43	181241	90.356	ug/l		99
60) Dibromochloromethane	9.518	129	31411	18.848	ug/l		99
61) 1,2-Dibromoethane	9.610	107	34801	20.234	ug/l		100
64) Tetrachloroethene	9.269	164	29267	20.762	ug/l		96
65) Chlorobenzene	10.079	112	90589	19.906	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	30193	20.643	ug/l		99
67) Ethyl Benzene	10.189	91	151105	19.217	ug/l		100
68) m/p-Xylenes	10.299	106	114910	39.825	ug/l		97
69) o-Xylene	10.640	106	57794	19.797	ug/l		95
70) Styrene	10.652	104	92784	19.825	ug/l		96
71) Bromoform	10.799	173	17659	19.275	ug/l	#	97
73) Isopropylbenzene	10.963	105	147393	19.872	ug/l		99
74) N-amyl acetate	10.841	43	61829	18.038	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.213	83	50416	19.570	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	49769	23.007	ug/l		88
77) Bromobenzene	11.195	156	36233	20.145	ug/l		95
78) n-propylbenzene	11.299	91	162028	19.765	ug/l		98
79) 2-Chlorotoluene	11.360	91	102209	19.279	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	121225	19.709	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	11072	18.609	ug/l		91
82) 4-Chlorotoluene	11.451	91	112263	19.122	ug/l		97
83) tert-Butylbenzene	11.713	119	120518	19.827	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	121322	20.085	ug/l		98
85) sec-Butylbenzene	11.890	105	143732	19.477	ug/l		100
86) p-Isopropyltoluene	12.006	119	120356	19.596	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	63016	20.058	ug/l		98
88) 1,4-Dichlorobenzene	12.042	146	64444	19.954	ug/l		98
89) n-Butylbenzene	12.329	91	94402	18.279	ug/l		97
90) Hexachloroethane	12.536	117	16712	18.640	ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	64584	19.798	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8263	16.523	ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	34820	19.470	ug/l		97
94) Hexachlorobutadiene	13.725	225	15232	21.174	ug/l		99
95) Naphthalene	13.774	128	124472	17.830	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	36757	19.378	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

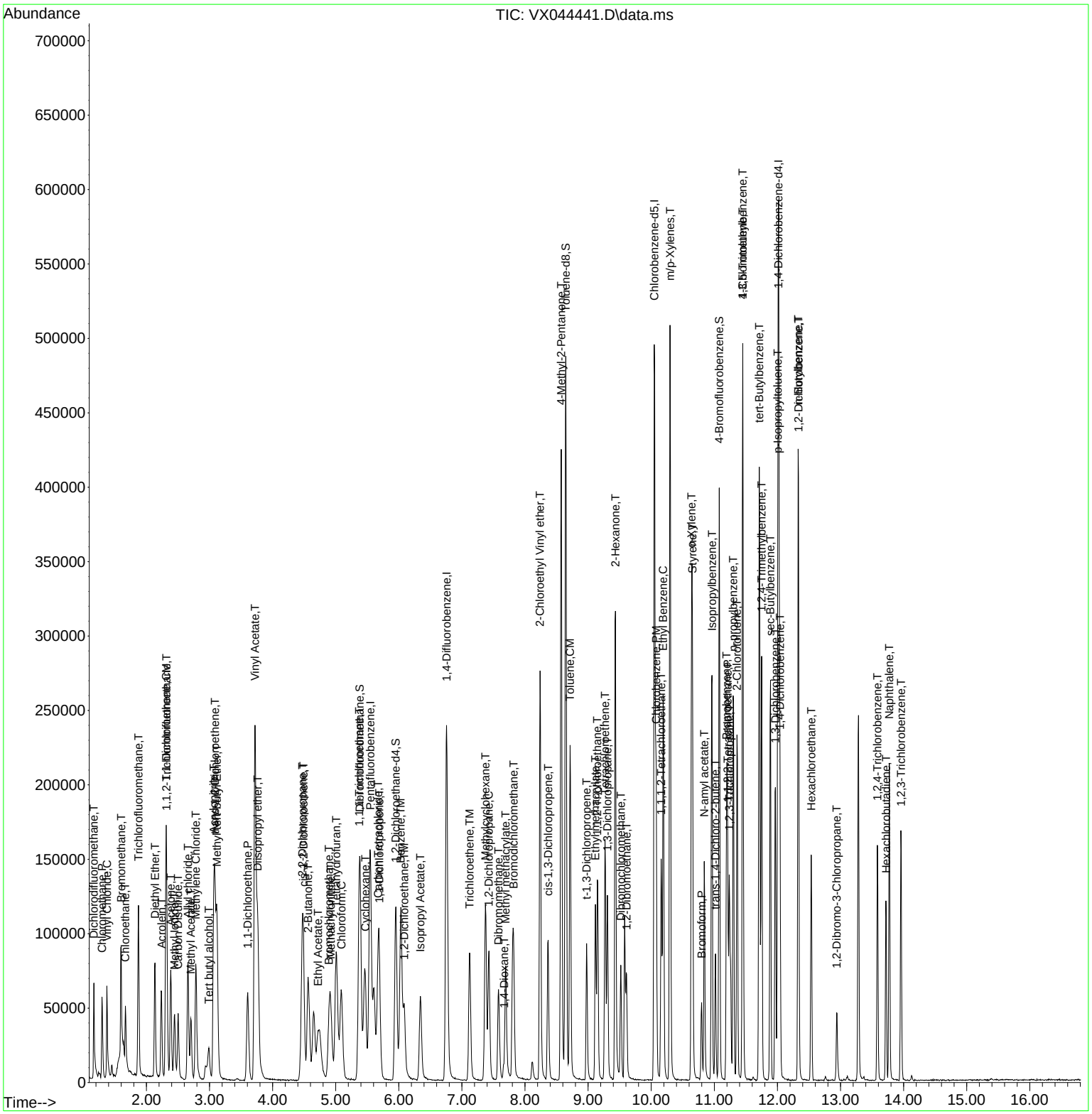
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

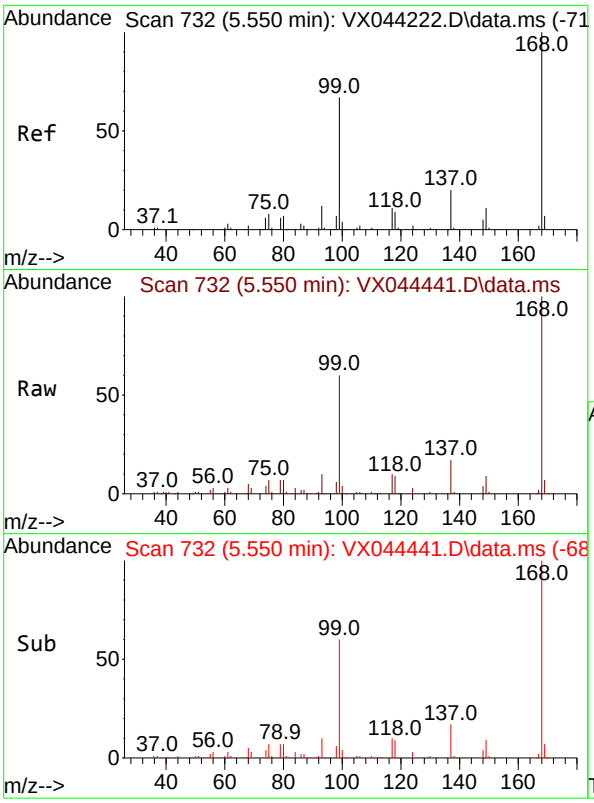
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



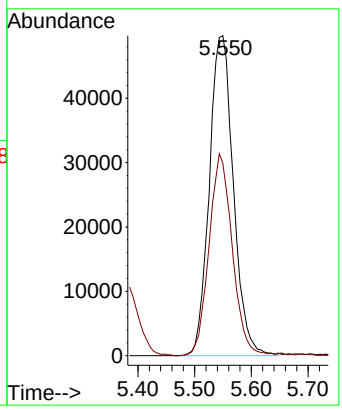


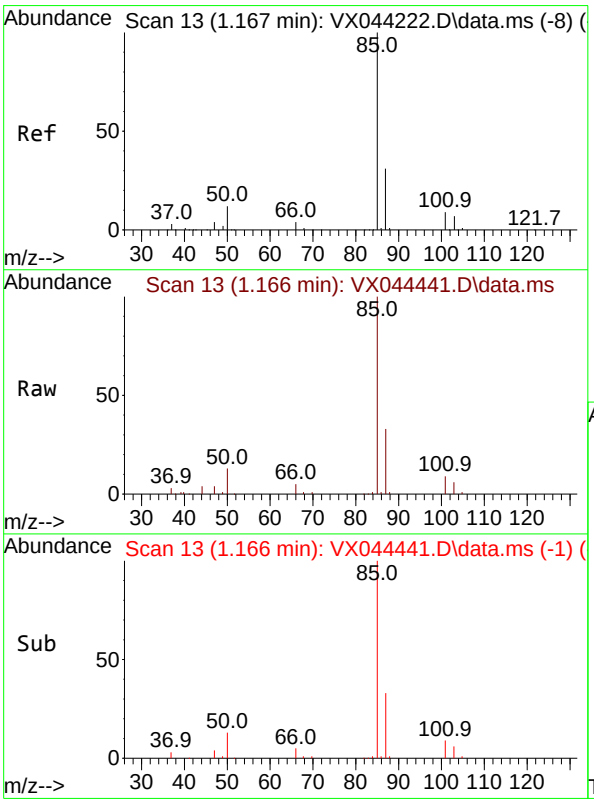
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:168 Resp: 146515

Ion	Ratio	Lower	Upper
168	100		
99	60.1	53.4	80.0

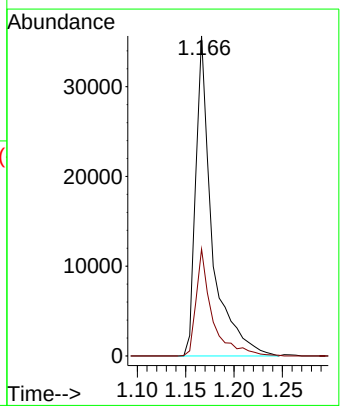


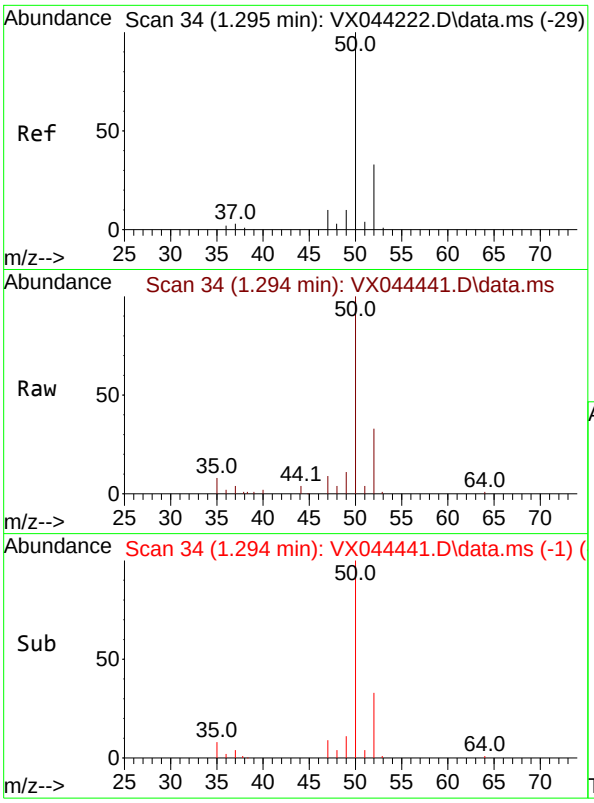


#2
Dichlorodifluoromethane
Concen: 18.492 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 85 Resp: 41893

Ion	Ratio	Lower	Upper
85	100		
87	33.4	15.4	46.4



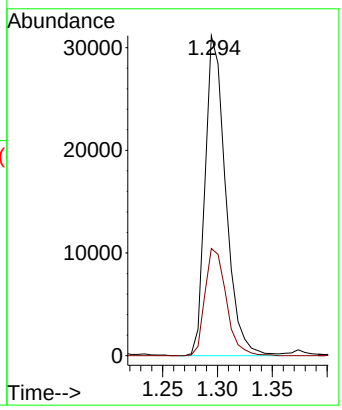


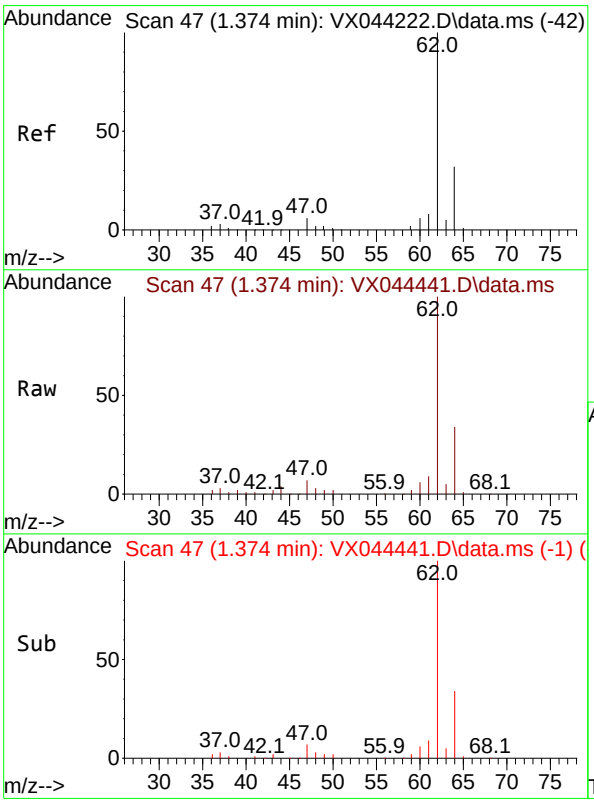
#3
Chloromethane
Concen: 18.715 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 50 Resp: 40546

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.5	39.7

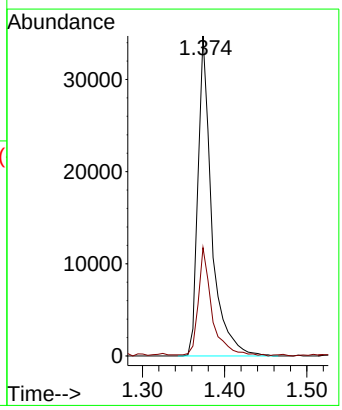


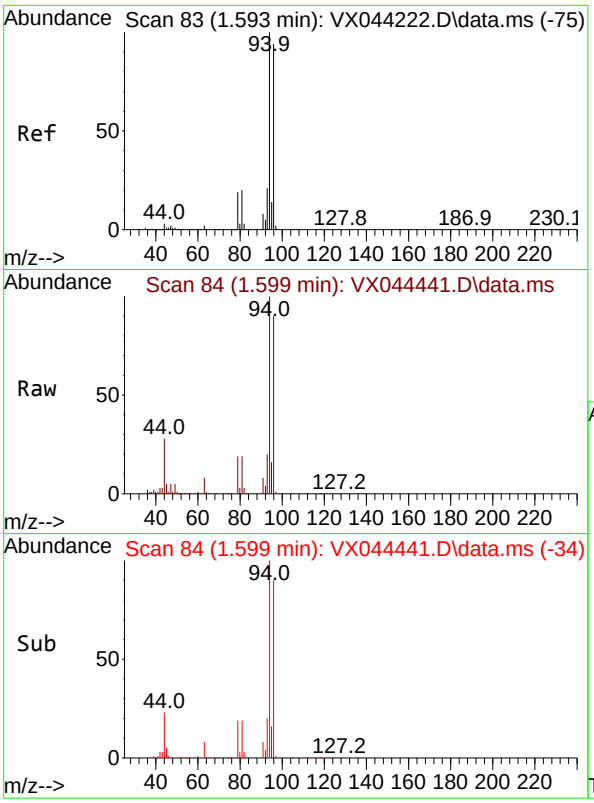


#4
Vinyl Chloride
Concen: 17.887 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 62 Resp: 40370

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.7	38.5



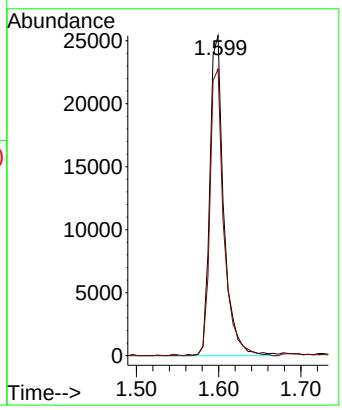


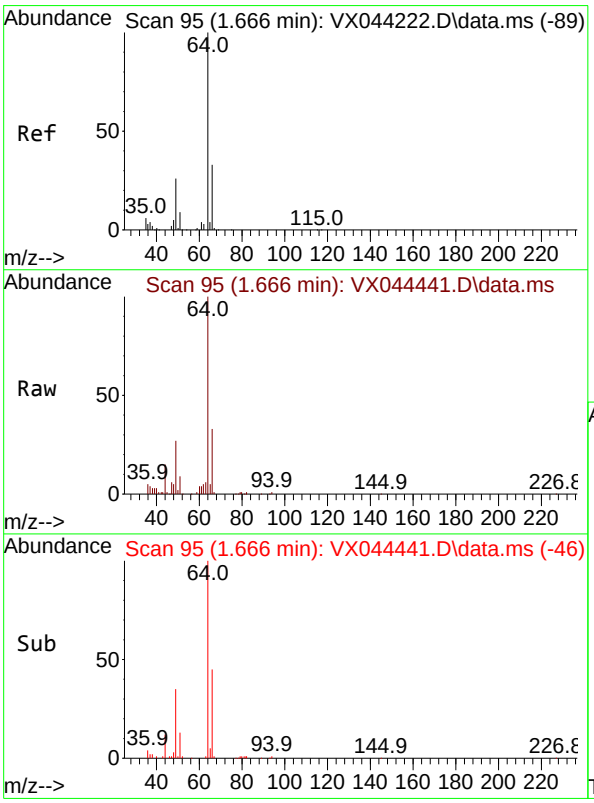
#5
Bromomethane
Concen: 18.804 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 94 Resp: 30109

Ion	Ratio	Lower	Upper
94	100		
96	89.5	74.9	112.3

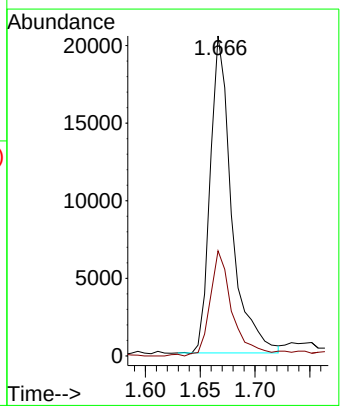


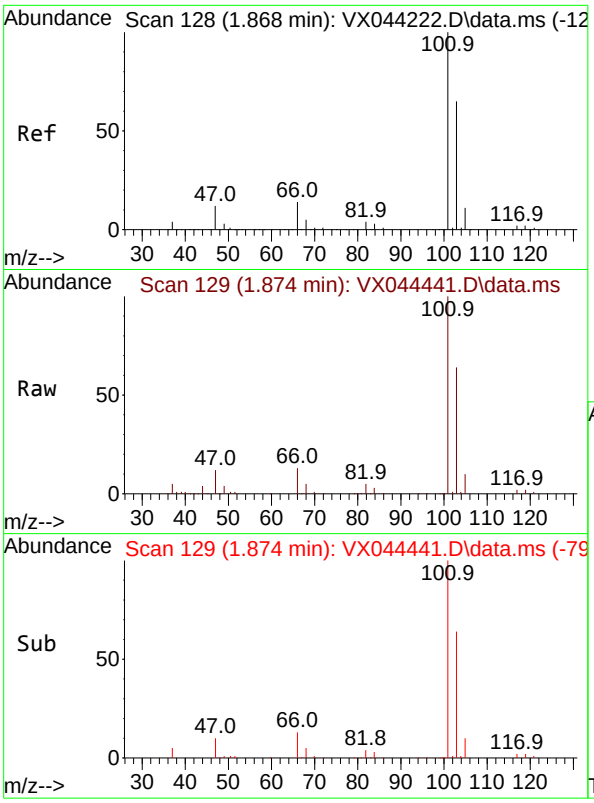


#6
Chloroethane
Concen: 19.764 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 64 Resp: 27776

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.6	39.8



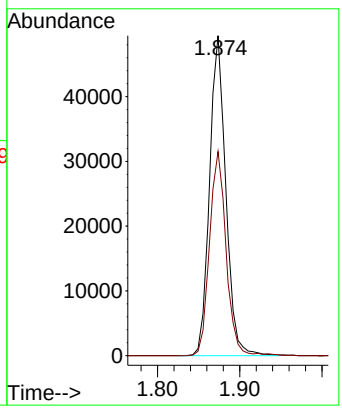


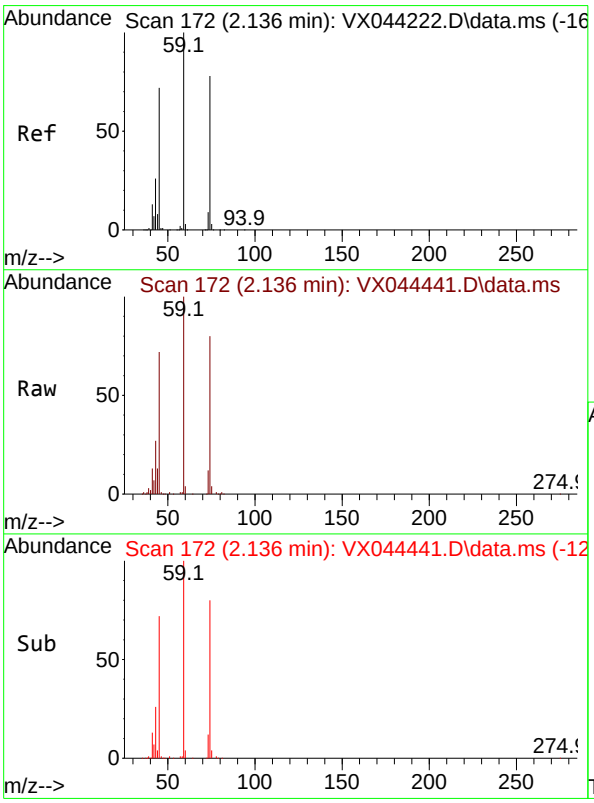
#7
Trichlorofluoromethane
Concen: 15.300 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:101 Resp: 67604

Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.8	77.8

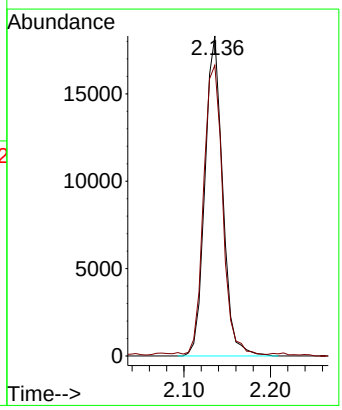


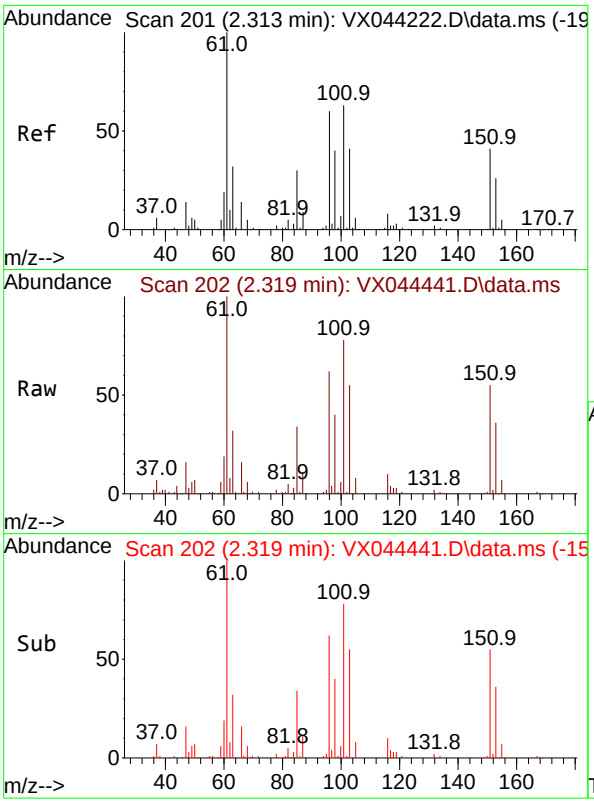


#8
Diethyl Ether
Concen: 17.291 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 74 Resp: 26079

Ion	Ratio	Lower	Upper
74	100		
45	96.3	48.4	145.0



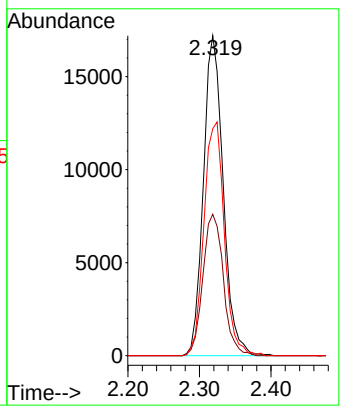


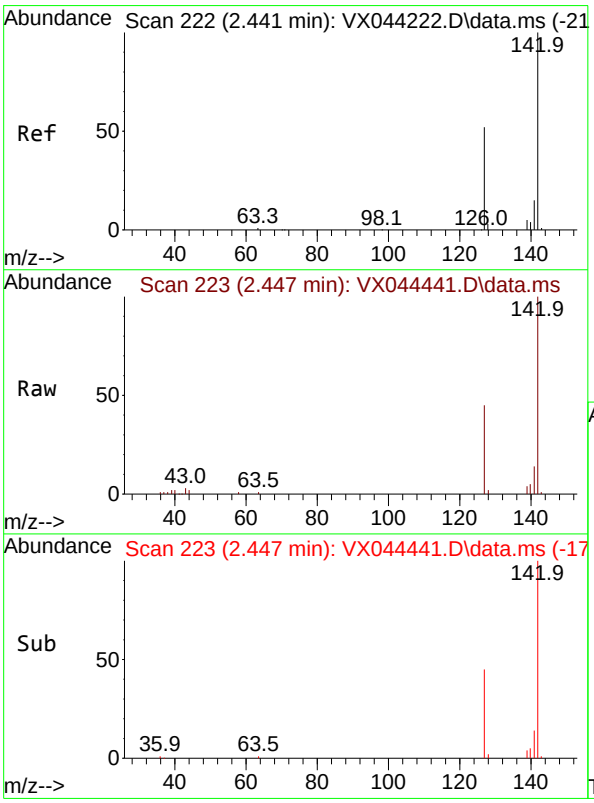
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.474 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:101 Resp: 33030

Ion	Ratio	Lower	Upper
101	100		
85	45.8	38.5	57.7
151	75.4	55.8	83.6

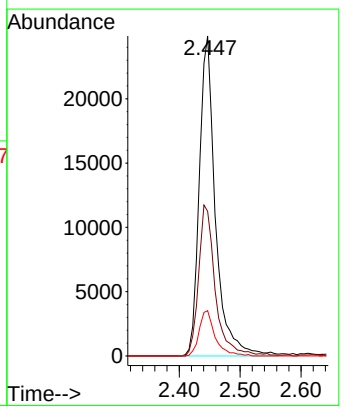


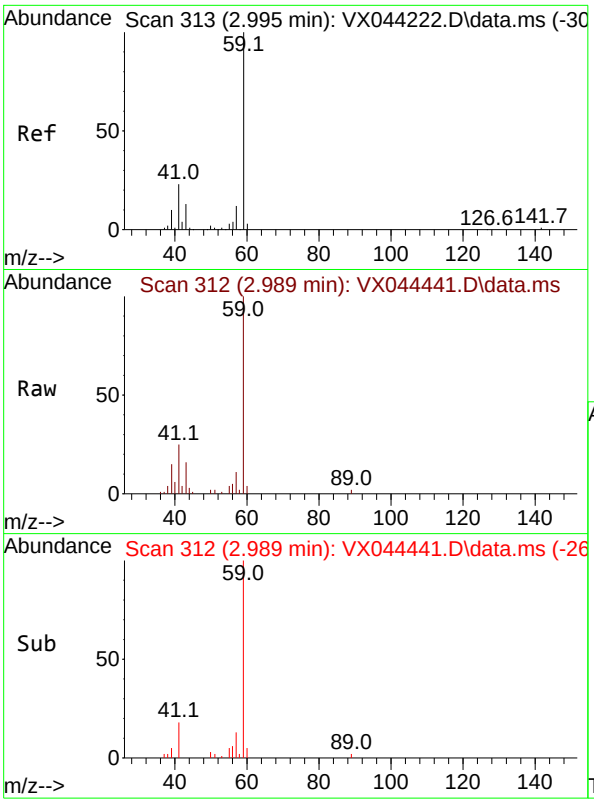


#10
Methyl Iodide
Concen: 19.434 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:142 Resp: 45795

Ion	Ratio	Lower	Upper
142	100		
127	48.9	41.8	62.8
141	14.0	11.5	17.3



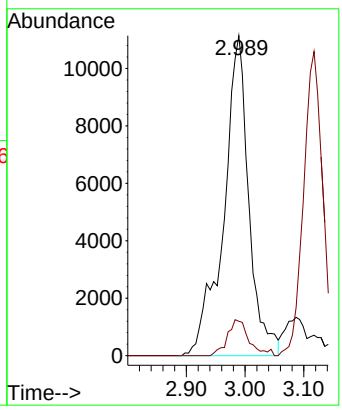


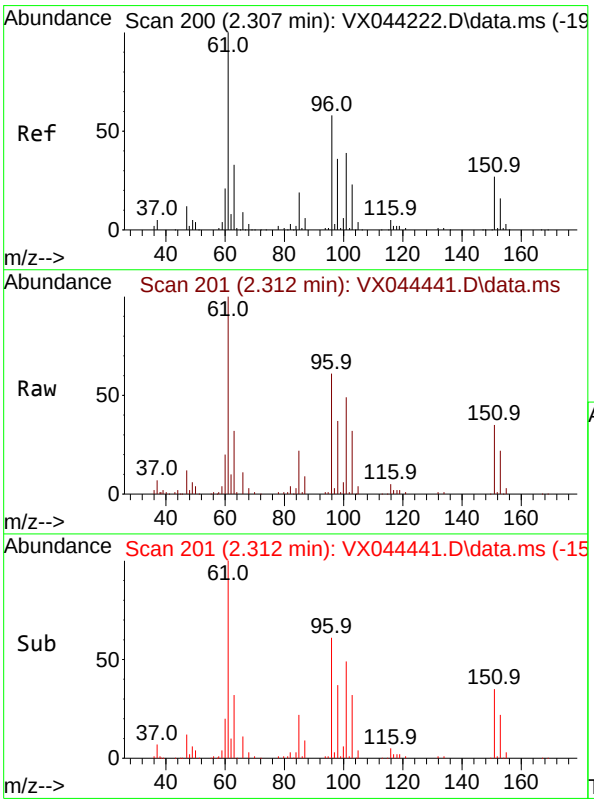
#11
Tert butyl alcohol
Concen: 91.803 ug/l
RT: 2.989 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 59 Resp: 33237

Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.8	13.2

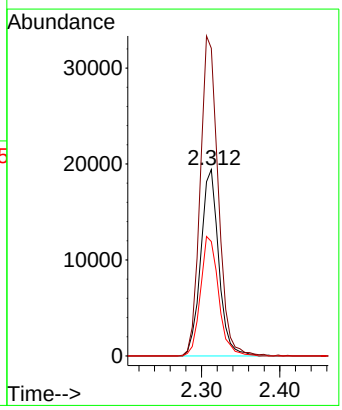


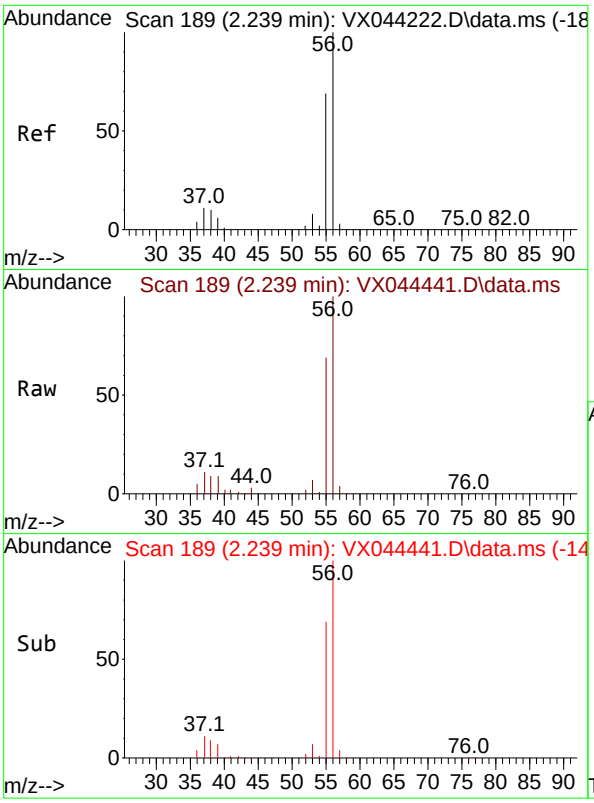


#12
1,1-Dichloroethene
Concen: 18.873 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 96 Resp: 30995

Ion	Ratio	Lower	Upper
96	100		
61	165.0	138.0	207.0
98	61.4	50.0	75.0



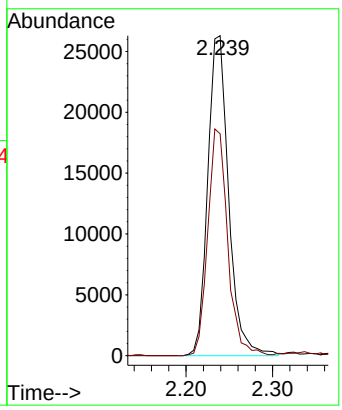


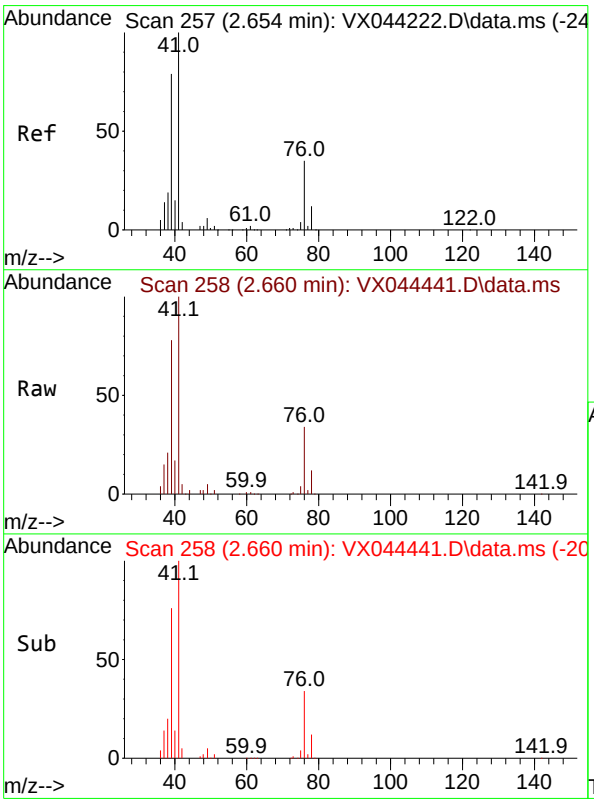
#13
Acrolein
Concen: 84.041 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 56 Resp: 44044

Ion	Ratio	Lower	Upper
56	100		
55	67.7	56.6	84.8

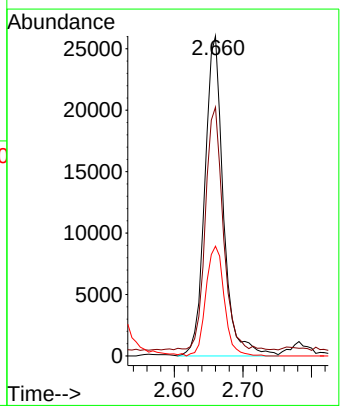


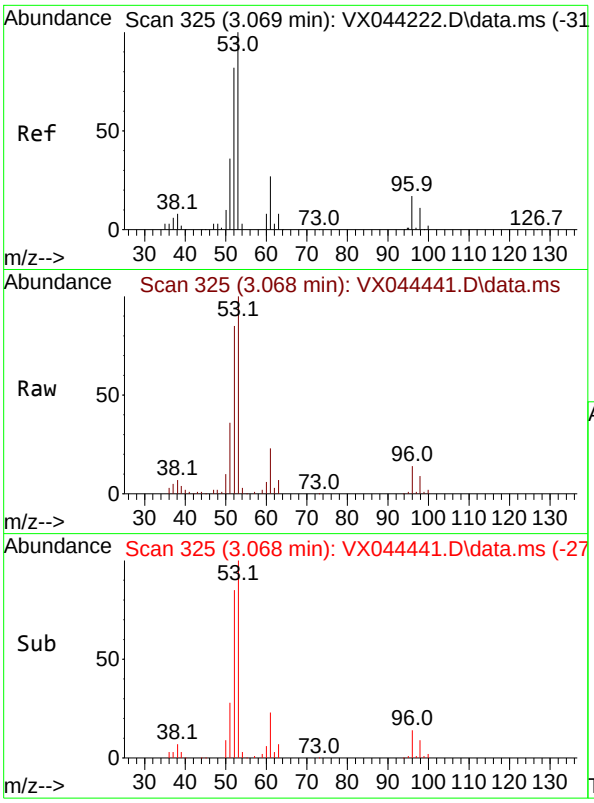


#14
Allyl chloride
Concen: 17.953 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 41 Resp: 49108

Ion	Ratio	Lower	Upper
41	100		
39	73.3	61.9	92.9
76	33.9	27.4	41.2



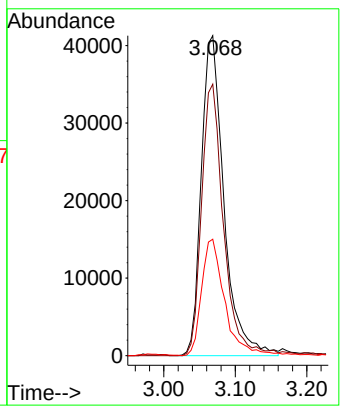


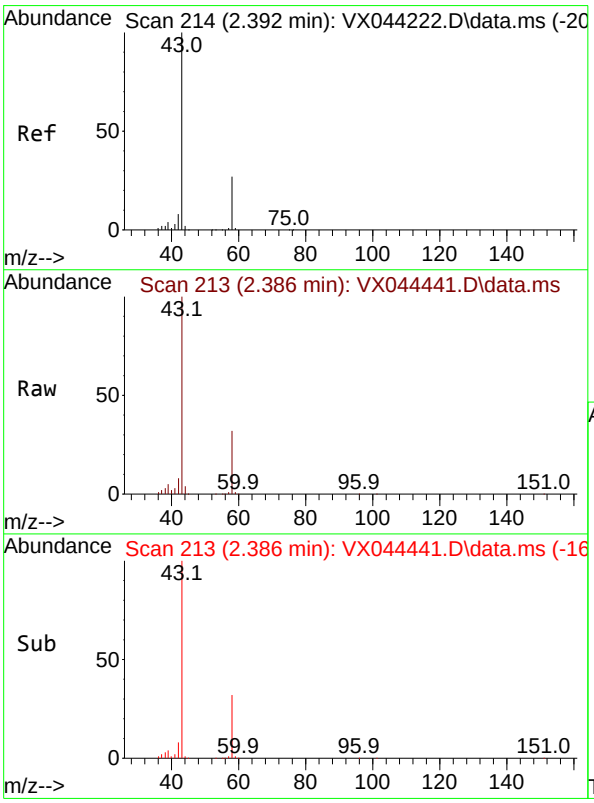
#15
Acrylonitrile
Concen: 90.610 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 53 Resp: 90872

Ion	Ratio	Lower	Upper
53	100		
52	82.8	67.4	101.0
51	37.6	30.3	45.5

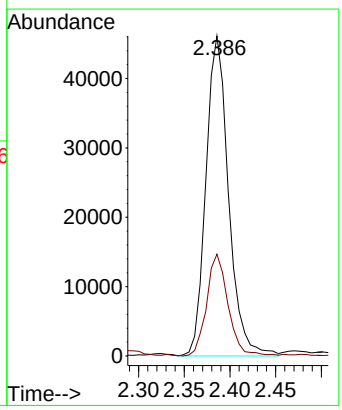


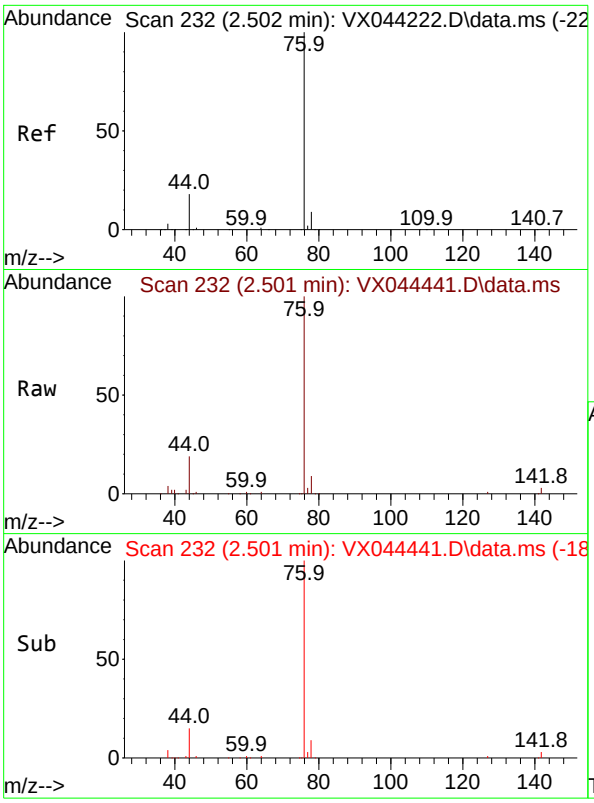


#16
Acetone
Concen: 75.745 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 79327

Ion	Ratio	Lower	Upper
43	100		
58	31.7	21.6	32.4



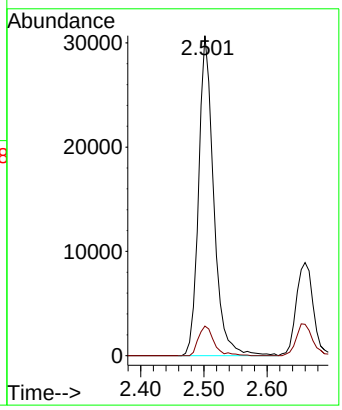


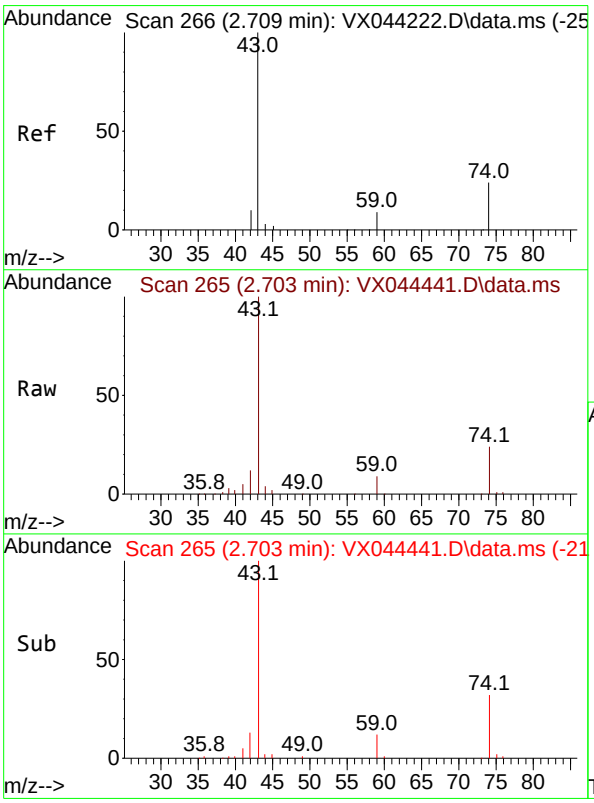
#17
Carbon Disulfide
Concen: 16.369 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 76 Resp: 51100

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

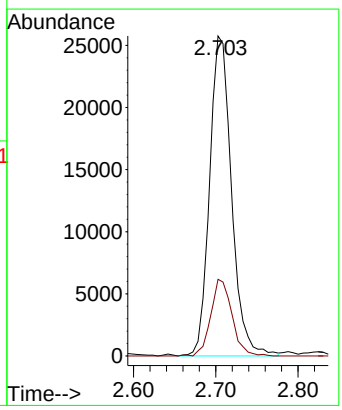


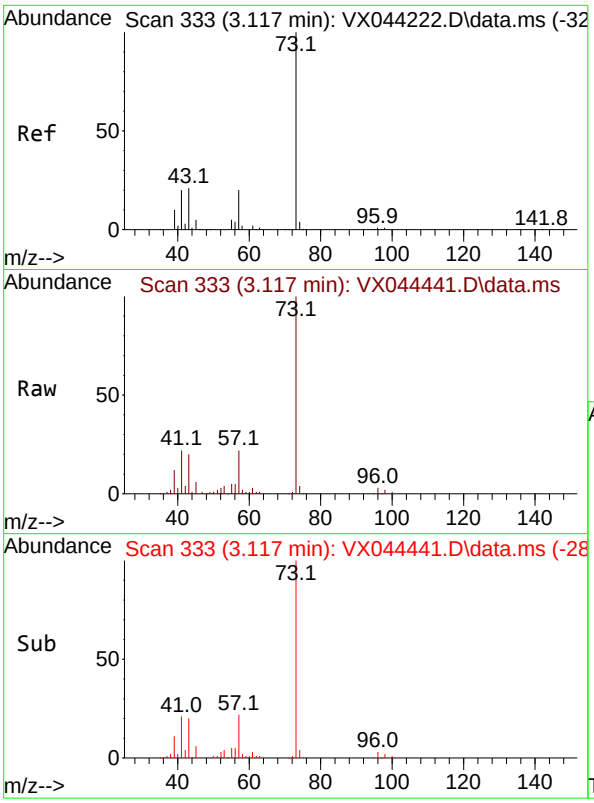


#18
Methyl Acetate
Concen: 17.713 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 47831

Ion	Ratio	Lower	Upper
43	100		
74	23.1	17.7	26.5



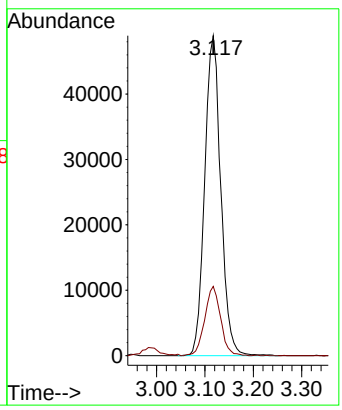


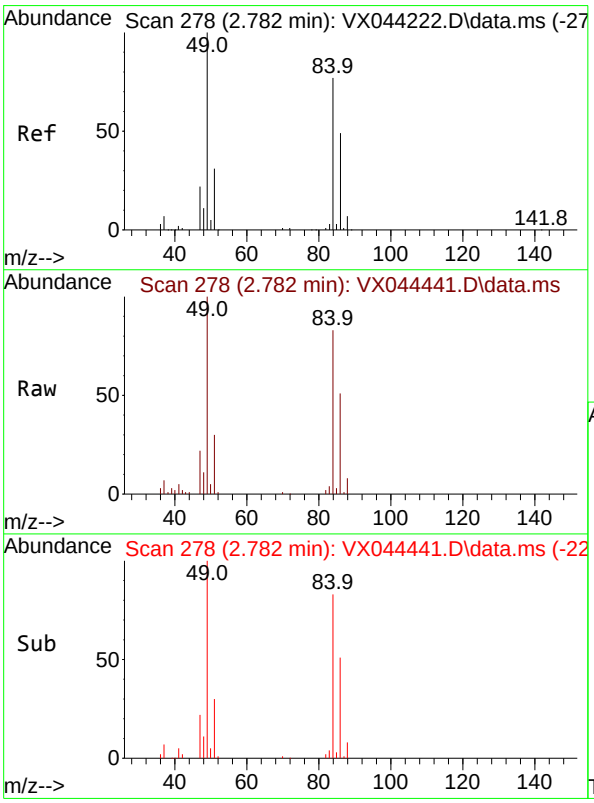
#19
Methyl tert-butyl Ether
Concen: 17.629 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 73 Resp: 112975

Ion	Ratio	Lower	Upper
73	100		
57	21.6	16.2	24.4

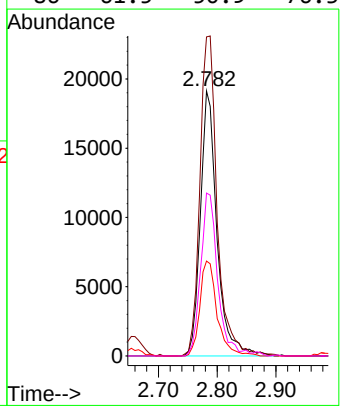


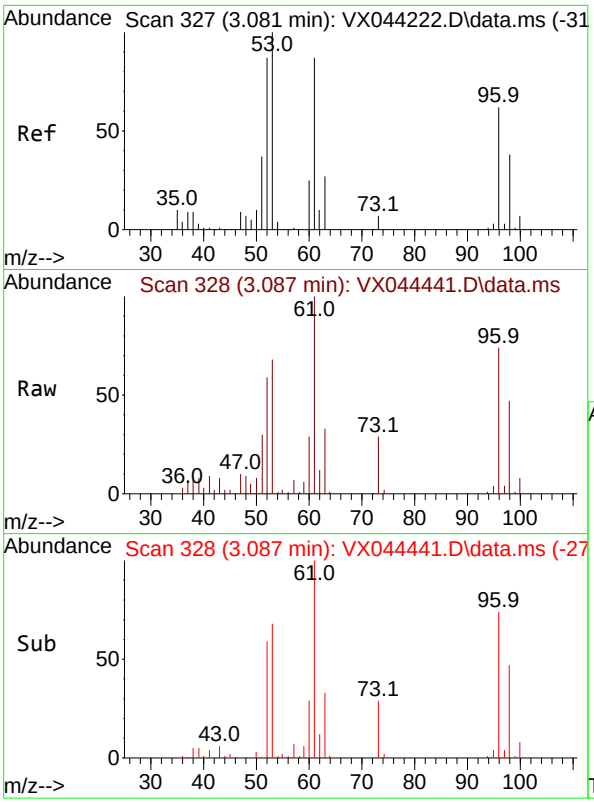


#20
Methylene Chloride
Concen: 19.142 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 84 Resp: 37654

Ion	Ratio	Lower	Upper
84	100		
49	120.5	104.2	156.4
51	35.8	32.2	48.4
86	61.5	50.9	76.3



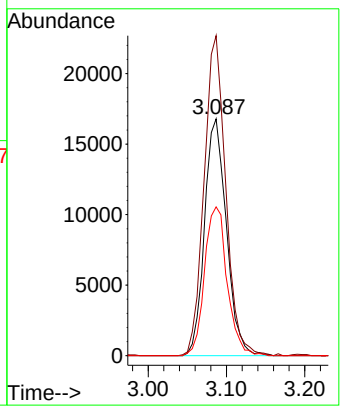


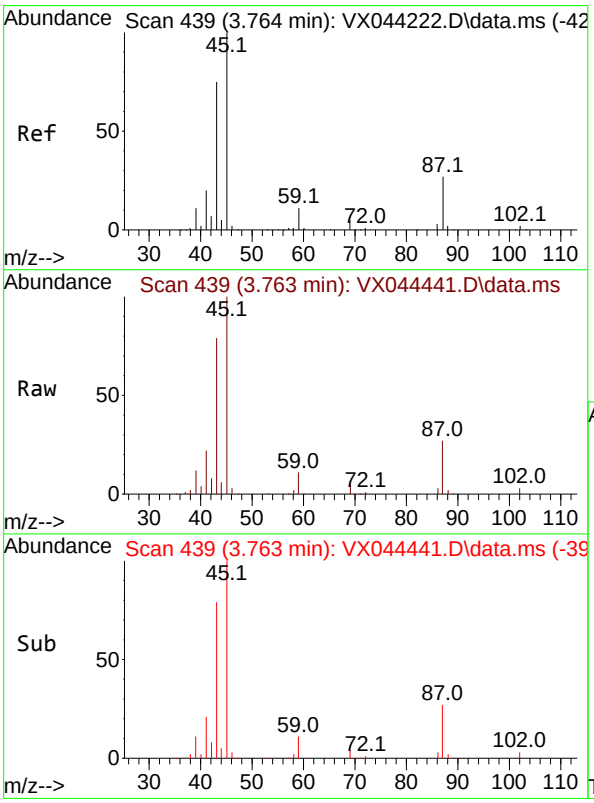
#21
trans-1,2-Dichloroethene
Concen: 18.688 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 96 Resp: 32618

Ion	Ratio	Lower	Upper
96	100		
61	135.2	112.0	168.0
98	62.9	48.8	73.2

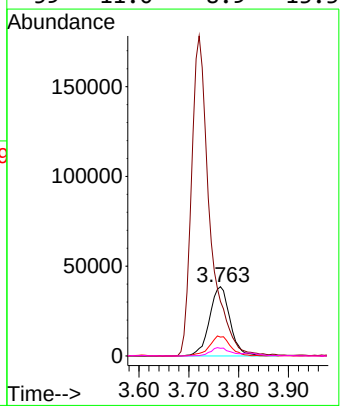


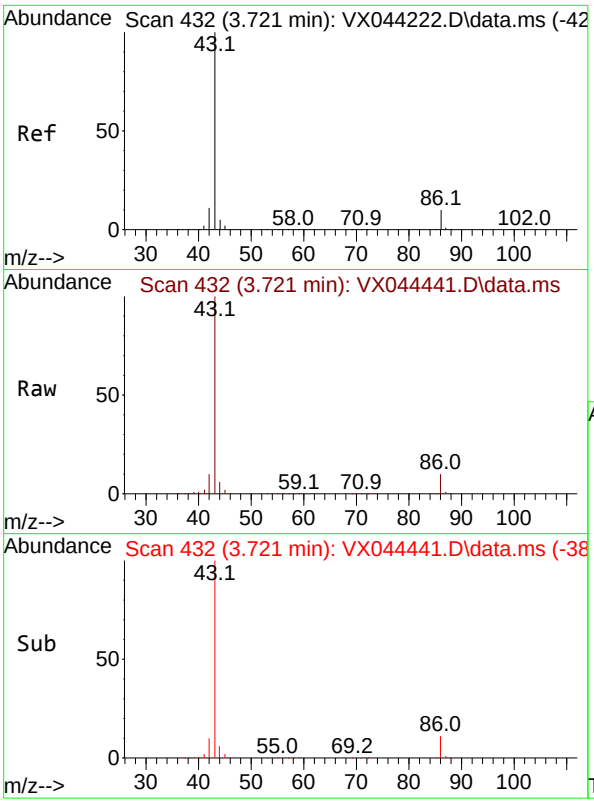


#22
Diisopropyl ether
Concen: 17.968 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 45 Resp: 110674

Ion	Ratio	Lower	Upper
45	100		
43	77.9	60.2	90.2
87	27.4	21.2	31.8
59	11.0	8.9	13.3



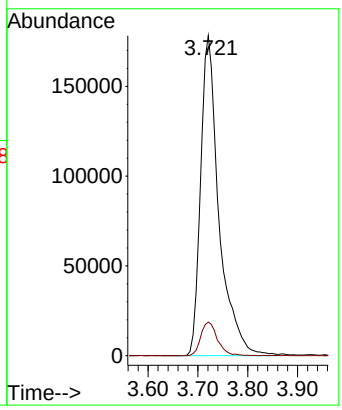


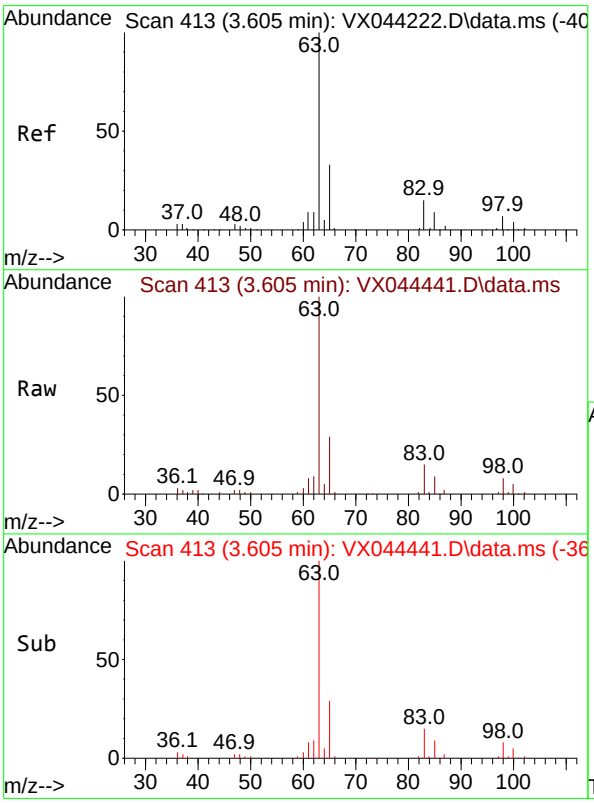
#23
Vinyl Acetate
Concen: 91.069 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 43 Resp: 456052

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.2

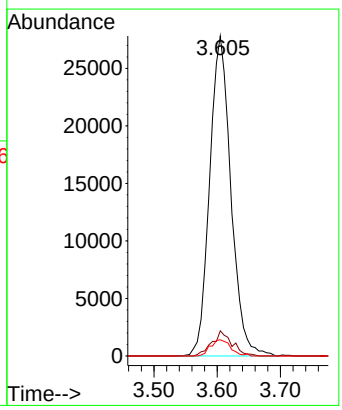


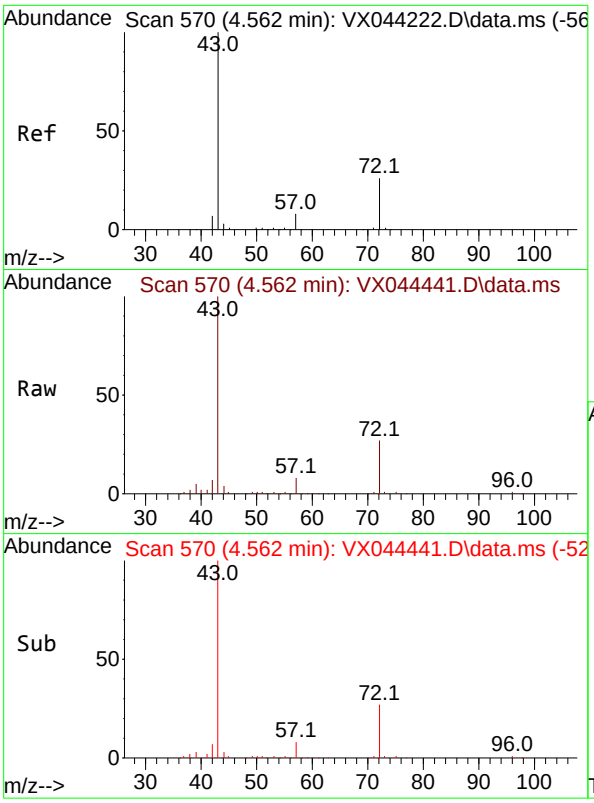


#24
1,1-Dichloroethane
Concen: 18.923 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 63 Resp: 64973

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.6	10.8
100	5.0	2.1	6.3



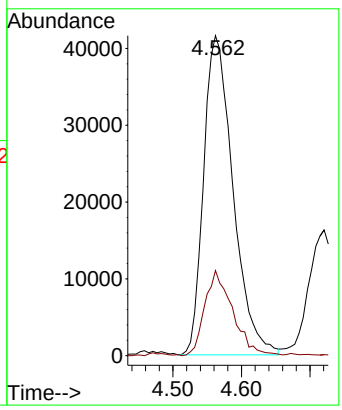


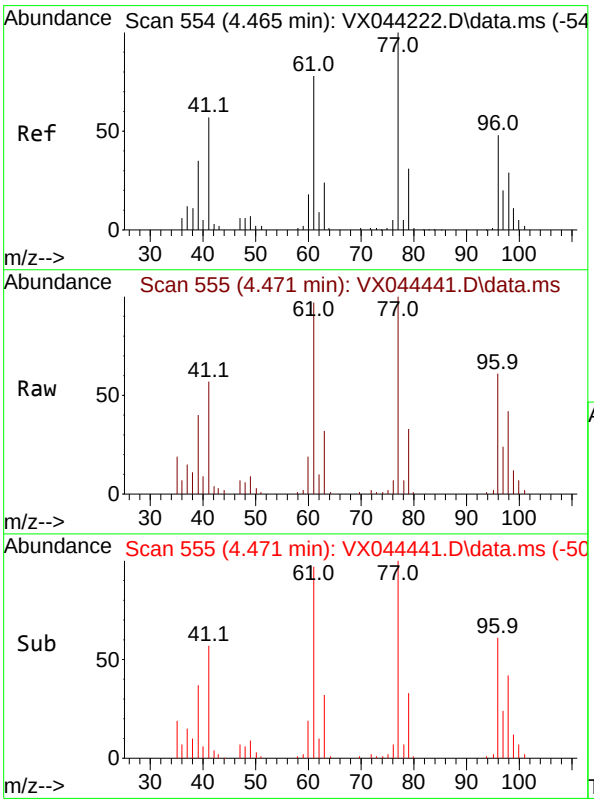
#25
2-Butanone
Concen: 83.289 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 43 Resp: 124008

Ion	Ratio	Lower	Upper
43	100		
72	26.3	20.2	30.4

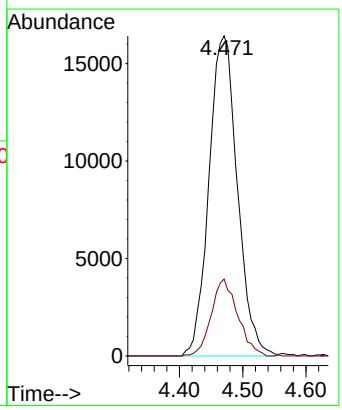


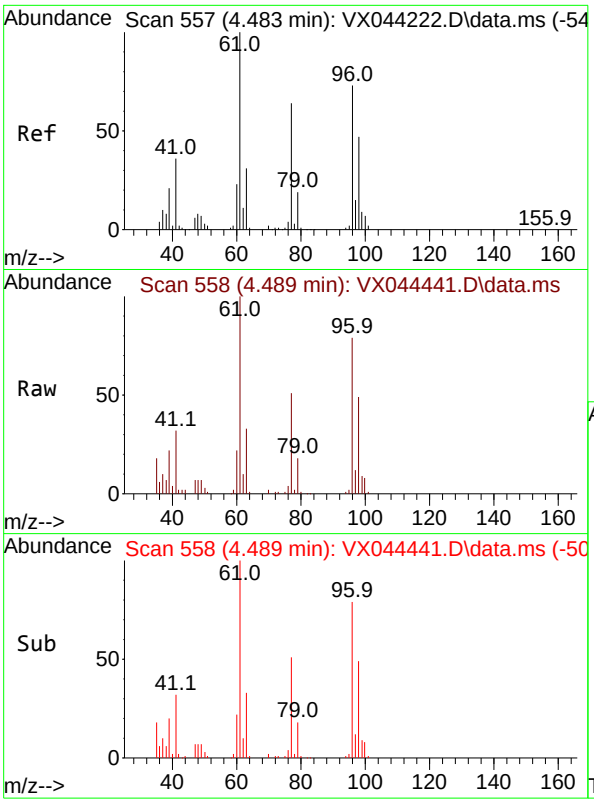


#26
2,2-Dichloropropane
Concen: 18.380 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 77 Resp: 51269

Ion	Ratio	Lower	Upper
77	100		
97	22.3	10.7	32.1



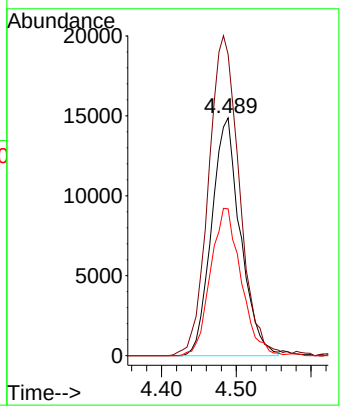


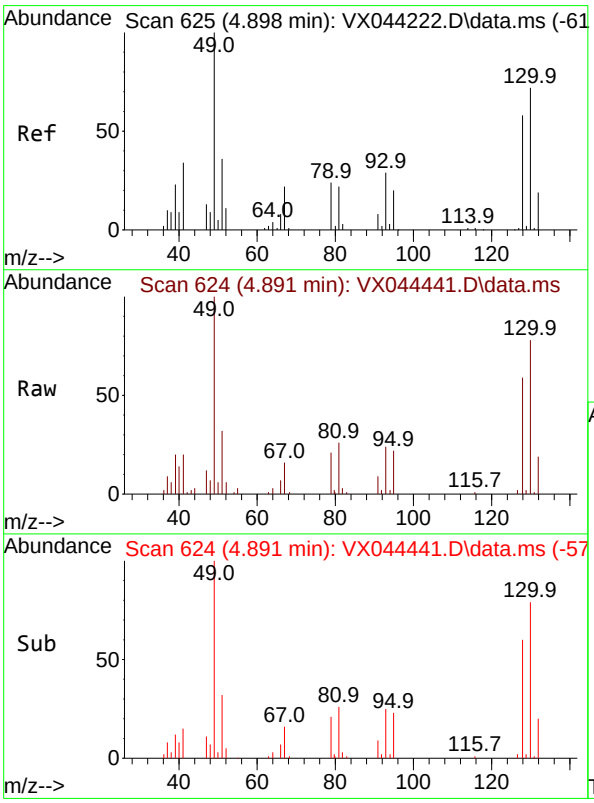
#27
cis-1,2-Dichloroethene
Concen: 17.974 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 96 Resp: 39842

Ion	Ratio	Lower	Upper
96	100		
61	144.2	0.0	299.0
98	65.7	0.0	129.0

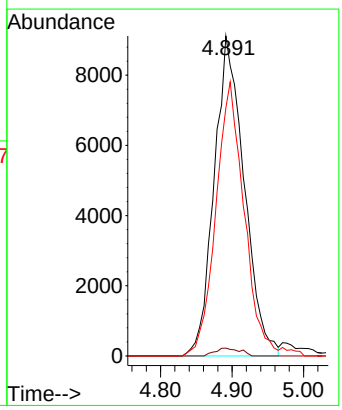


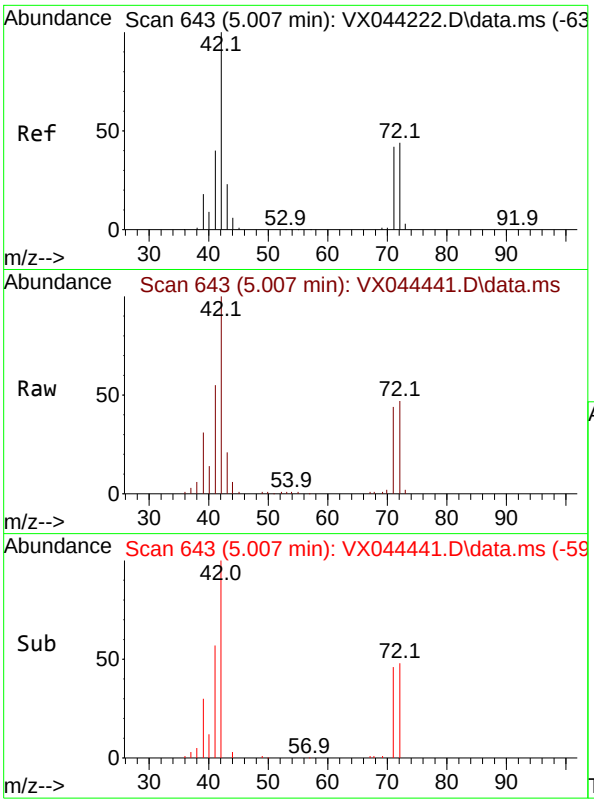


#28
Bromochloromethane
Concen: 15.760 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 49 Resp: 26535

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	80.3	62.1	93.1



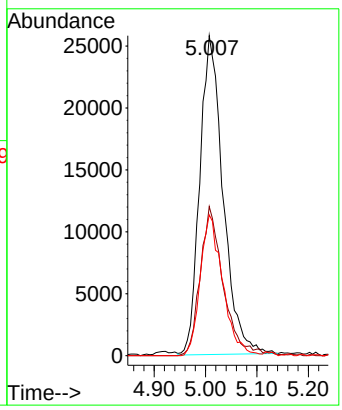


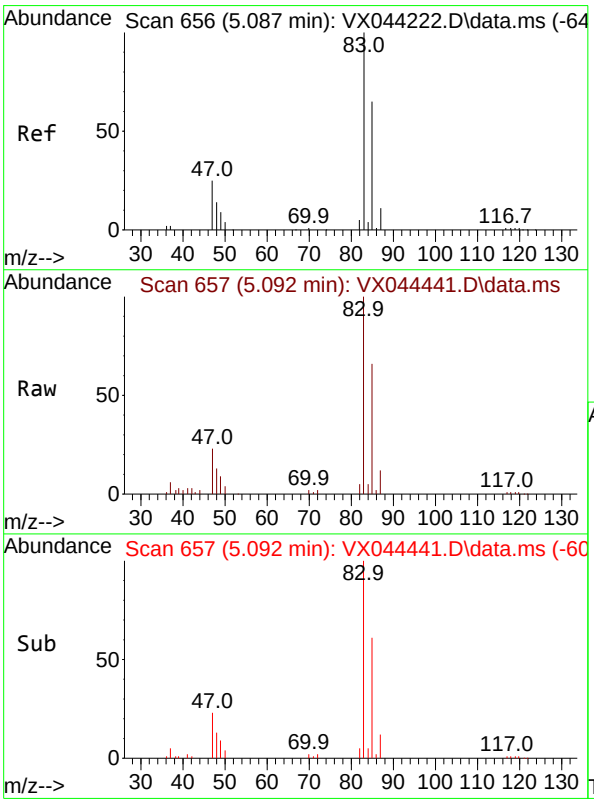
#29
Tetrahydrofuran
Concen: 84.947 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 42 Resp: 81181

Ion	Ratio	Lower	Upper
42	100		
72	45.9	37.0	55.6
71	42.5	33.6	50.4

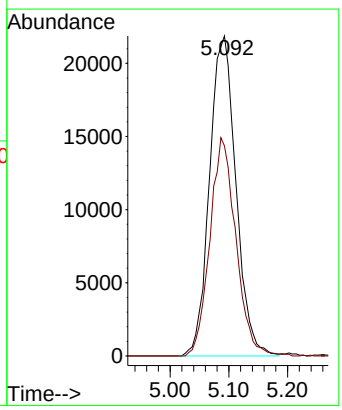


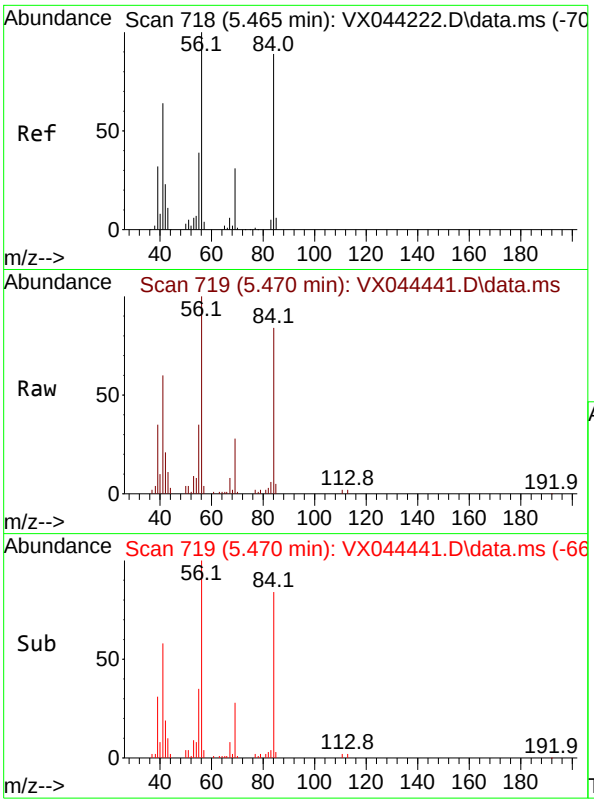


#30
Chloroform
Concen: 17.686 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 83 Resp: 68227

Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.6	77.4



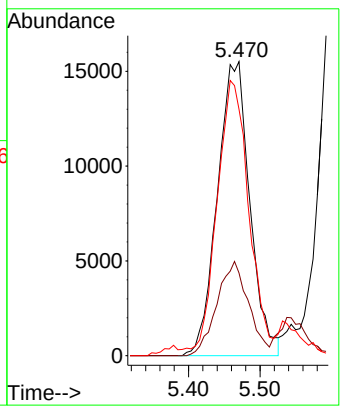


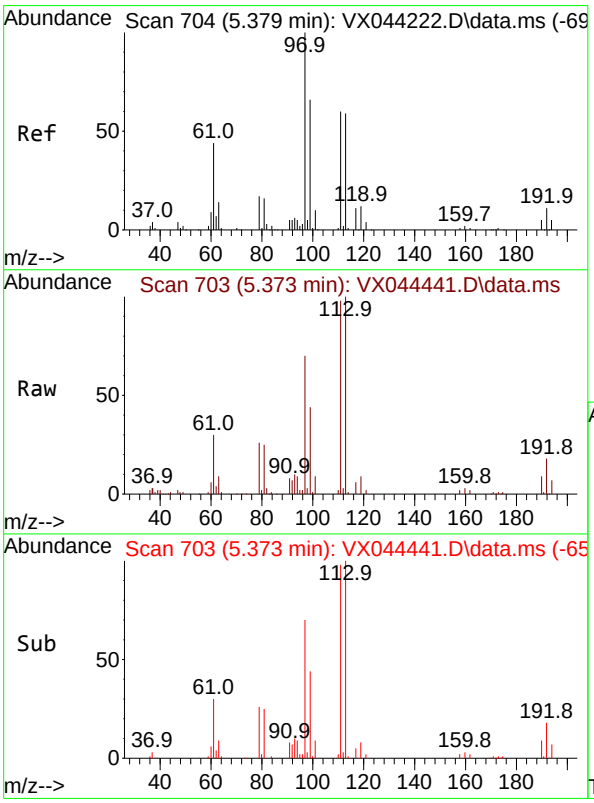
#31
Cyclohexane
Concen: 17.628 ug/l
RT: 5.470 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 56 Resp: 48875

Ion	Ratio	Lower	Upper
56	100		
69	28.1	24.7	37.1
84	81.7	71.0	106.6

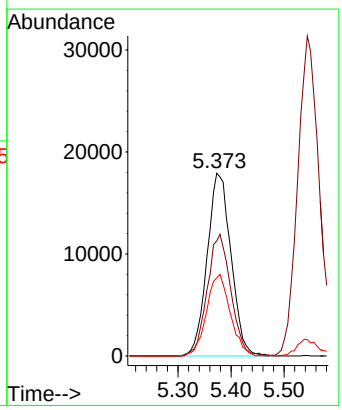


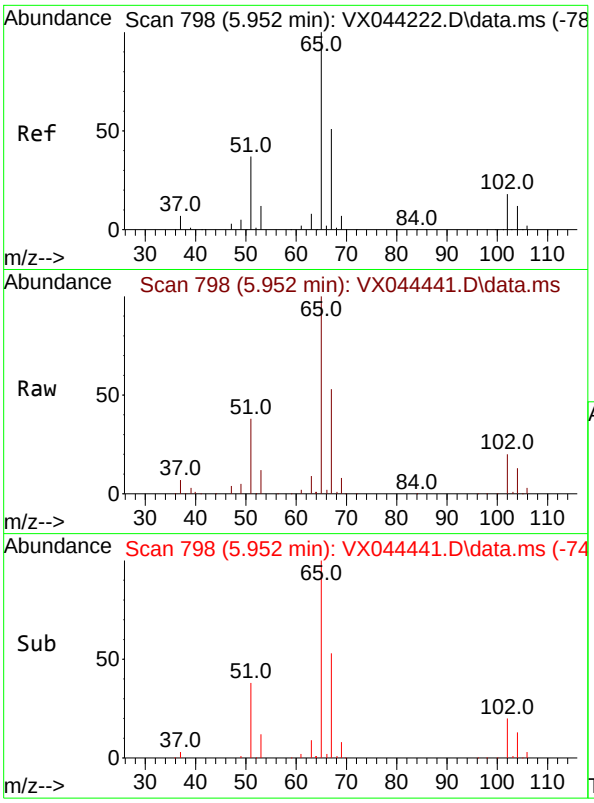


#32
1,1,1-Trichloroethane
Concen: 17.459 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 97 Resp: 55907

Ion	Ratio	Lower	Upper
97	100		
99	65.6	50.8	76.2
61	44.3	35.2	52.8



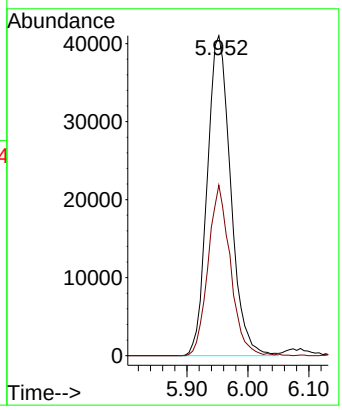


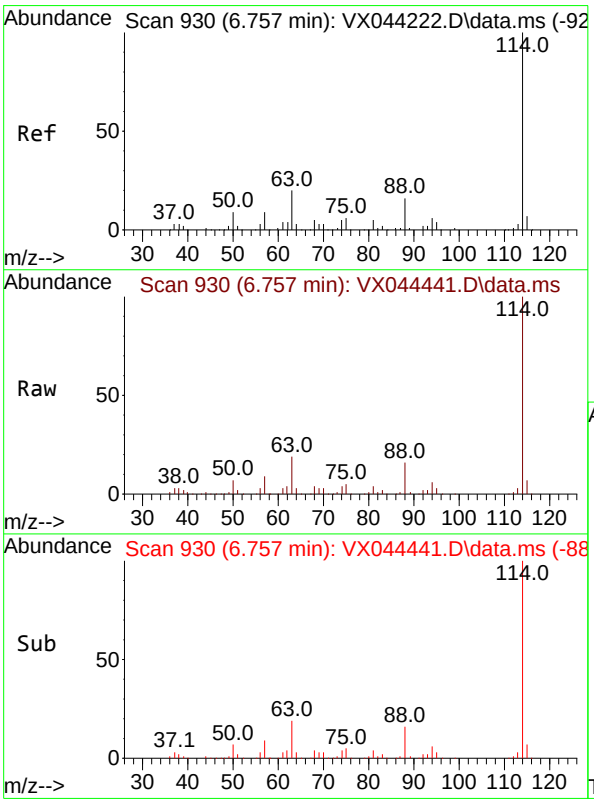
#33
1,2-Dichloroethane-d4
Concen: 42.700 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 65 Resp: 109691

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	101.6

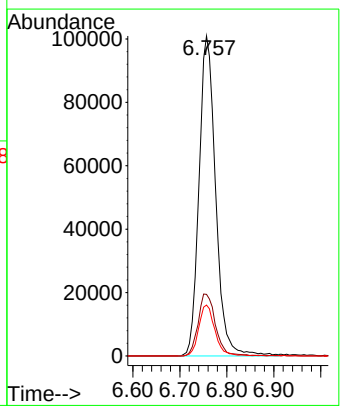


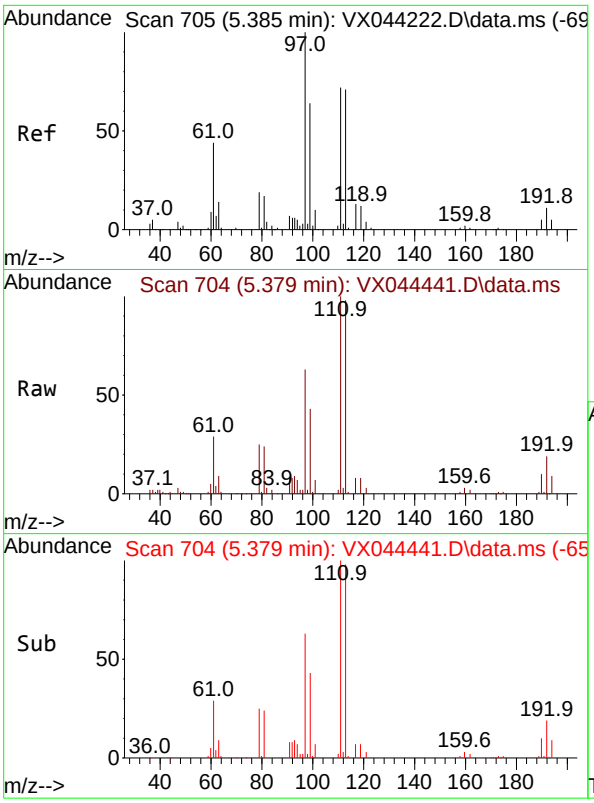


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:114 Resp: 249173

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	40.6
88	15.9	0.0	31.8



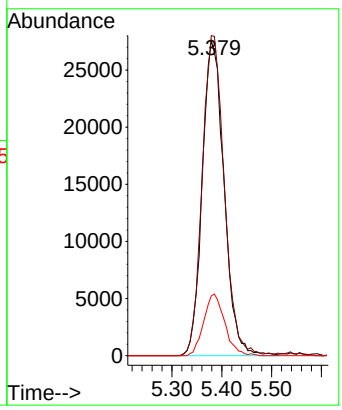


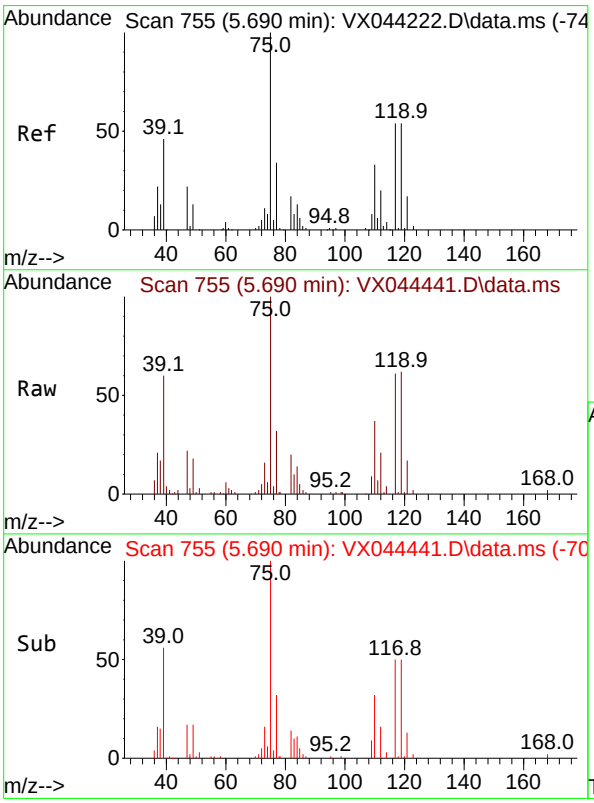
#35
Dibromofluoromethane
Concen: 48.541 ug/l
RT: 5.379 min Scan# 7(
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:113 Resp: 83769

Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.4	120.6
192	18.9	13.3	19.9

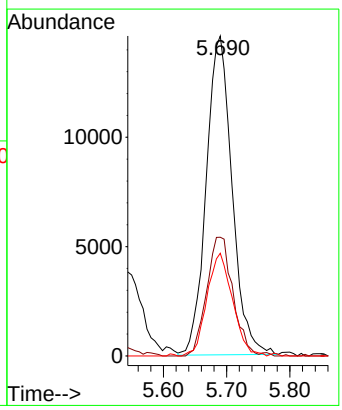


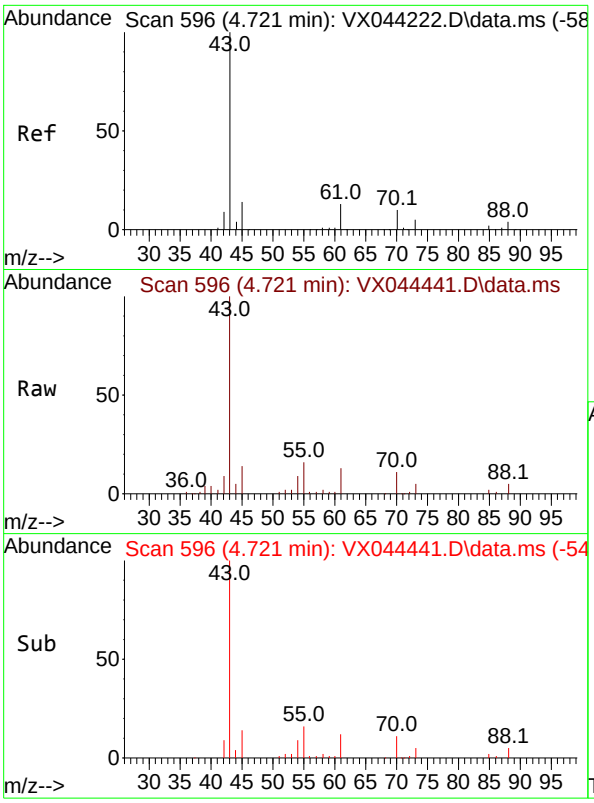


#36
1,1-Dichloropropene
Concen: 18.566 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 41416

Ion	Ratio	Lower	Upper
75	100		
110	37.6	17.3	51.7
77	31.9	25.4	38.0



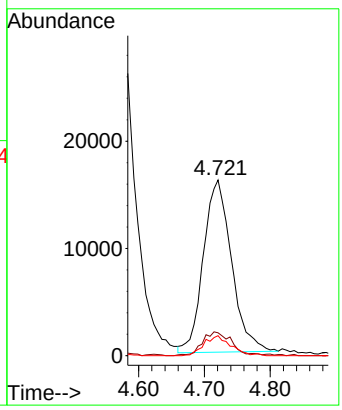


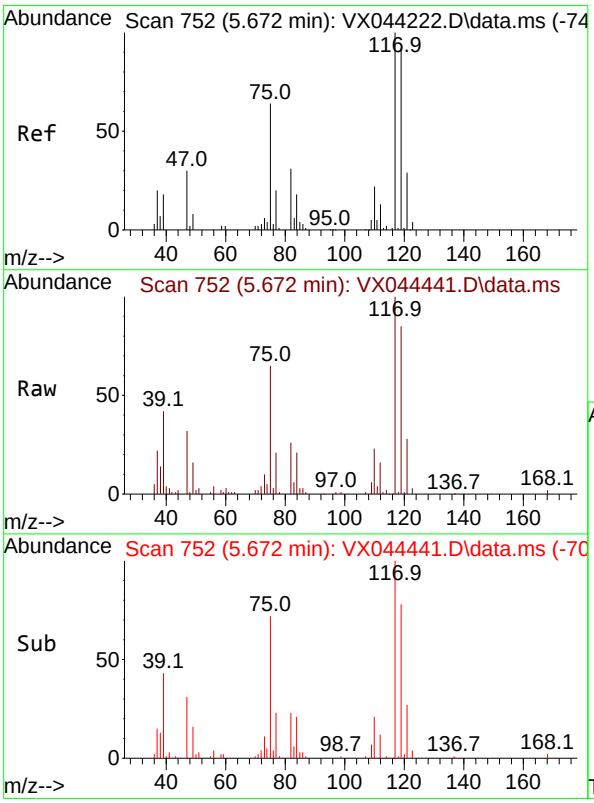
#37
Ethyl Acetate
Concen: 17.412 ug/l
RT: 4.721 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 43 Resp: 48014

Ion	Ratio	Lower	Upper
43	100		
61	14.3	9.8	14.8
70	11.0	7.7	11.5

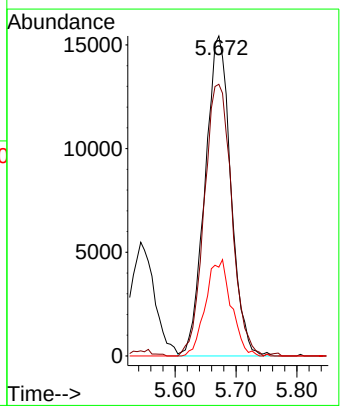


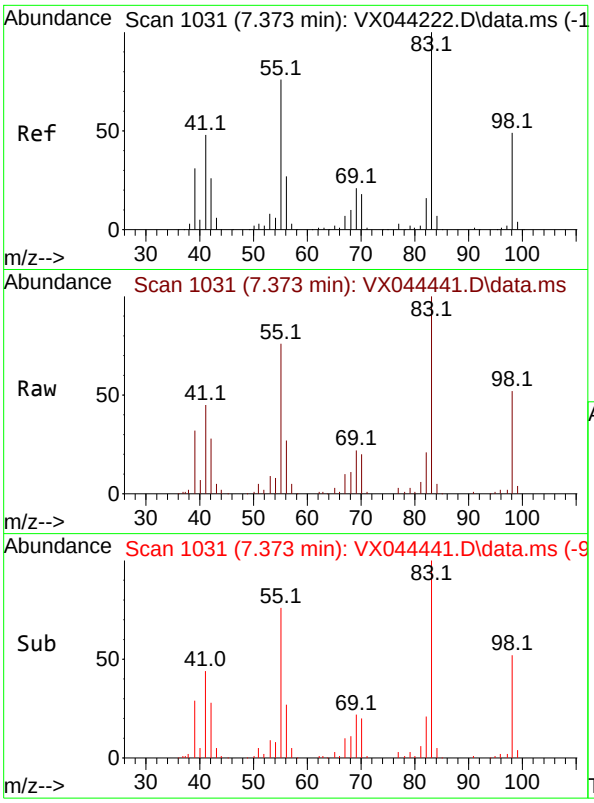


#38
Carbon Tetrachloride
Concen: 18.898 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:117 Resp: 45386

Ion	Ratio	Lower	Upper
117	100		
119	84.9	74.2	111.4
121	27.7	23.0	34.6



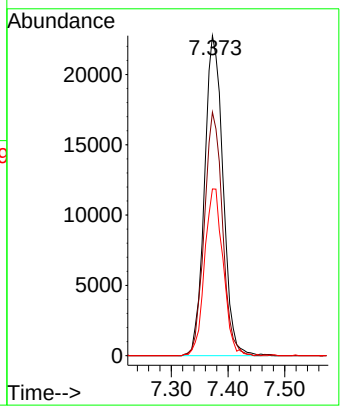


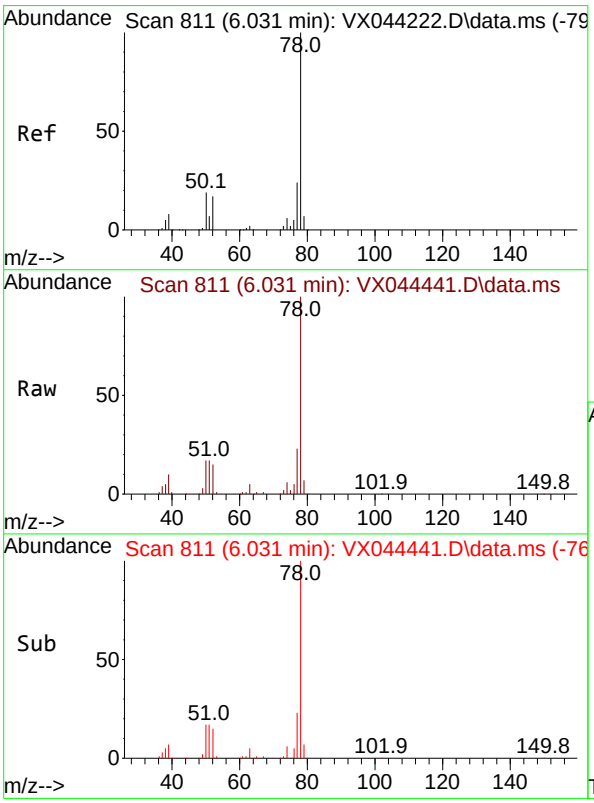
#39
Methylcyclohexane
Concen: 19.332 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 83 Resp: 51554

Ion	Ratio	Lower	Upper
83	100		
55	76.1	60.7	91.1
98	52.1	38.9	58.3

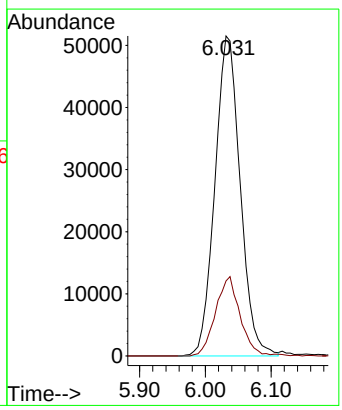


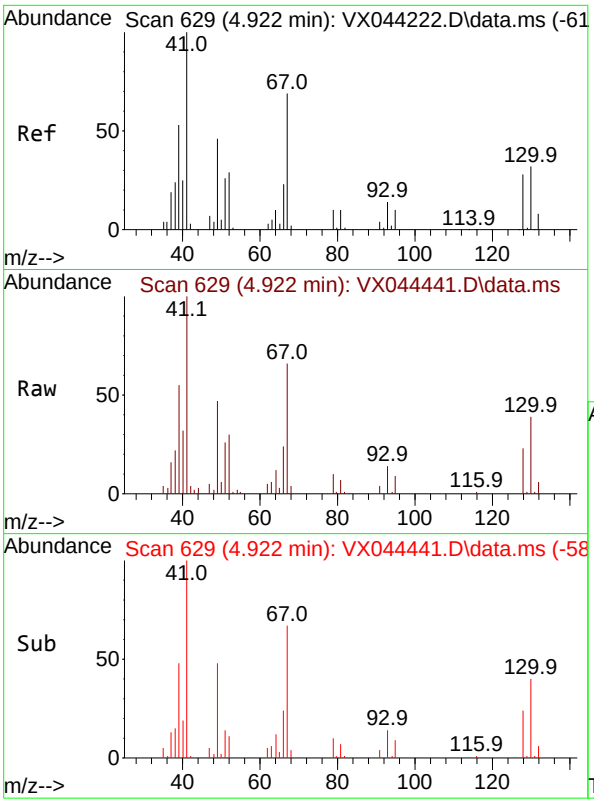


#40
Benzene
Concen: 20.358 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 78 Resp: 137885

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.3	28.9



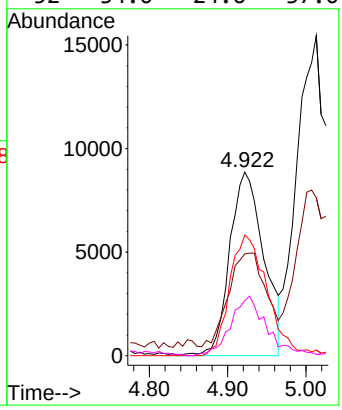


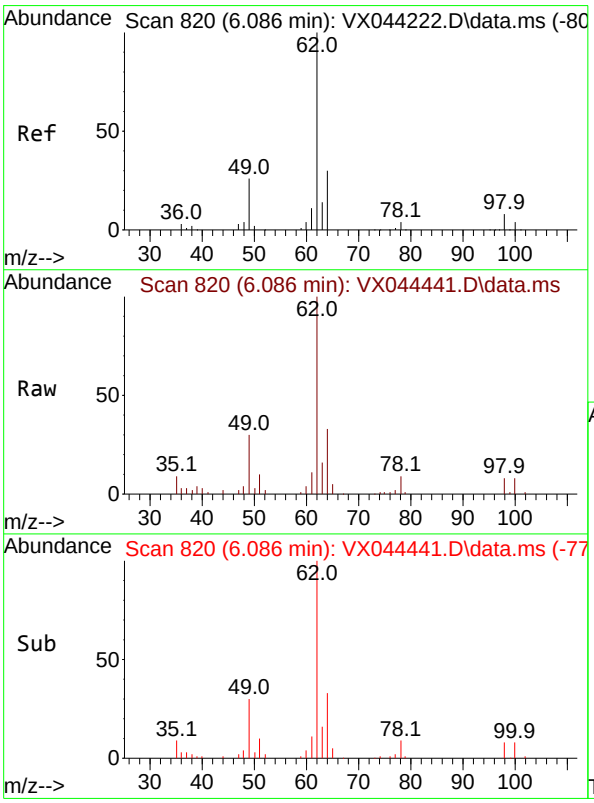
#41
Methacrylonitrile
Concen: 18.343 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 41 Resp: 26859

Ion	Ratio	Lower	Upper
41	100		
39	56.0	44.2	66.4
67	72.8	57.2	85.8
52	34.0	24.6	37.0

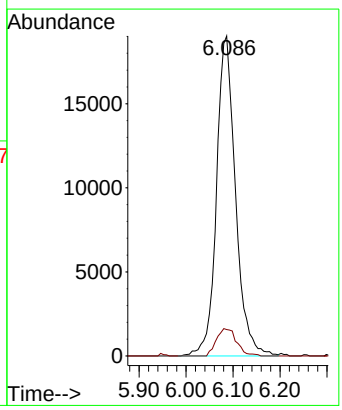


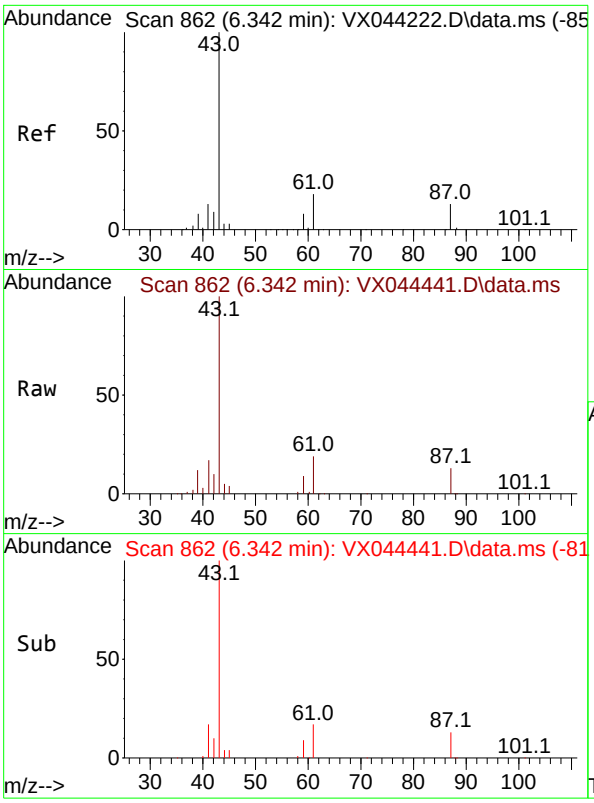


#42
1,2-Dichloroethane
Concen: 19.207 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 62 Resp: 53588

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	15.8



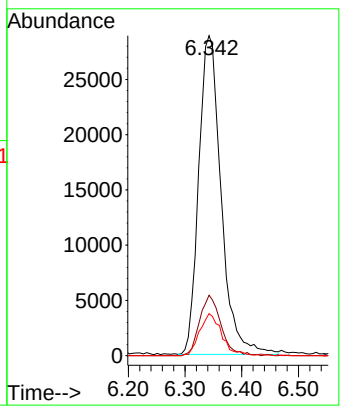


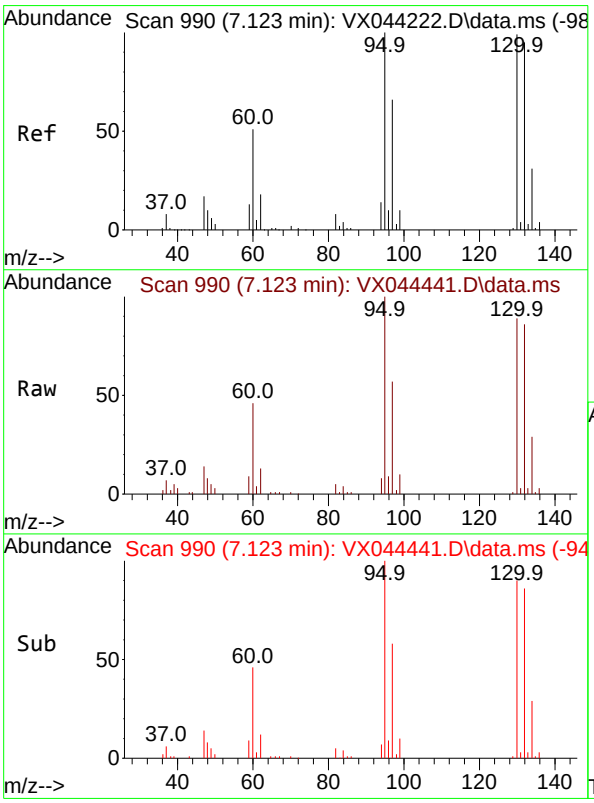
#43
Isopropyl Acetate
Concen: 18.378 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 43 Resp: 79207

Ion	Ratio	Lower	Upper
43	100		
61	18.0	14.2	21.2
87	12.9	10.2	15.2

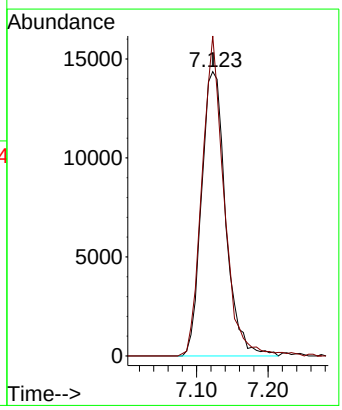


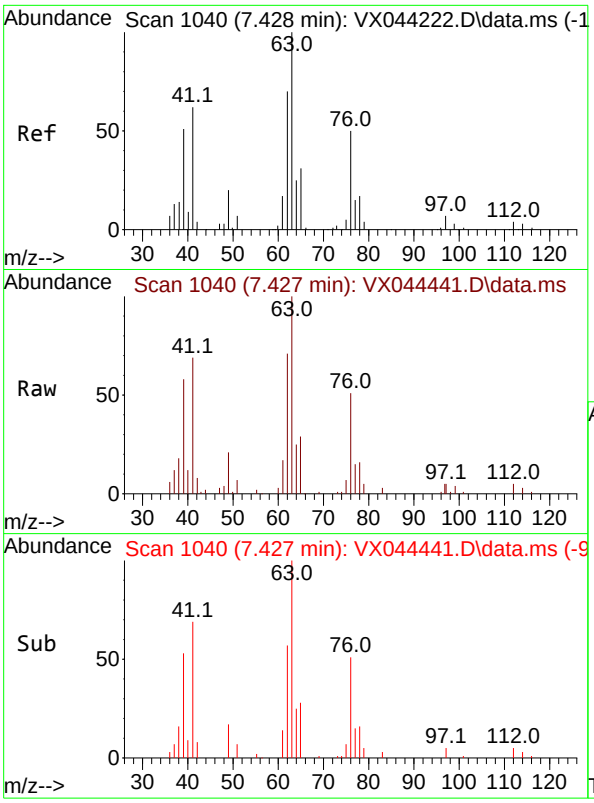


#44
Trichloroethene
Concen: 19.902 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:130 Resp: 33615

Ion	Ratio	Lower	Upper
130	100		
95	112.5	0.0	201.4



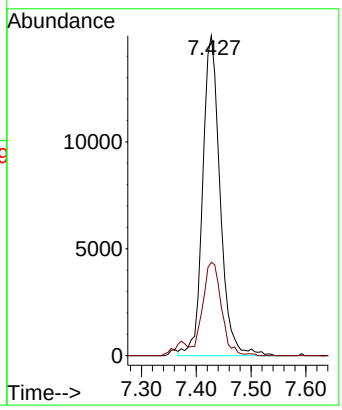


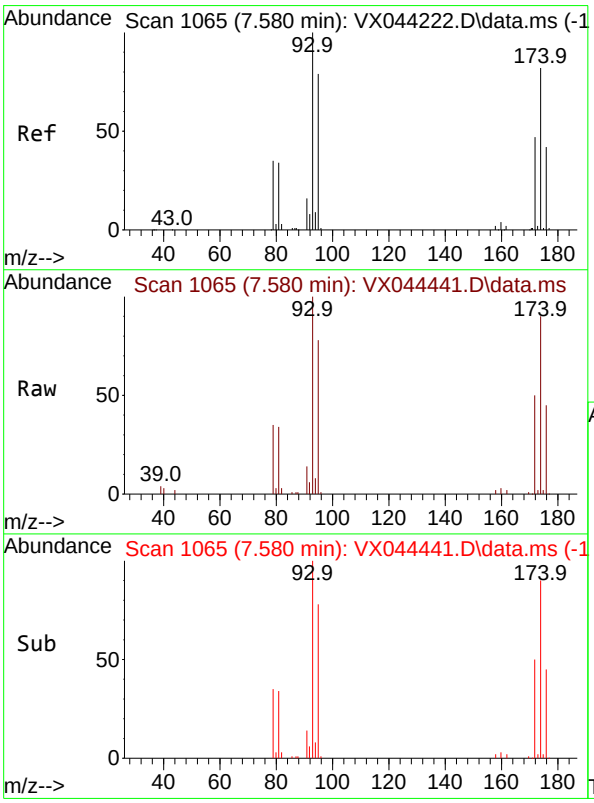
#45
1,2-Dichloropropane
Concen: 19.077 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 63 Resp: 33011

Ion	Ratio	Lower	Upper
63	100		
65	29.1	24.6	37.0

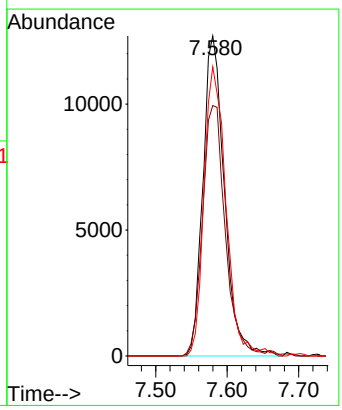


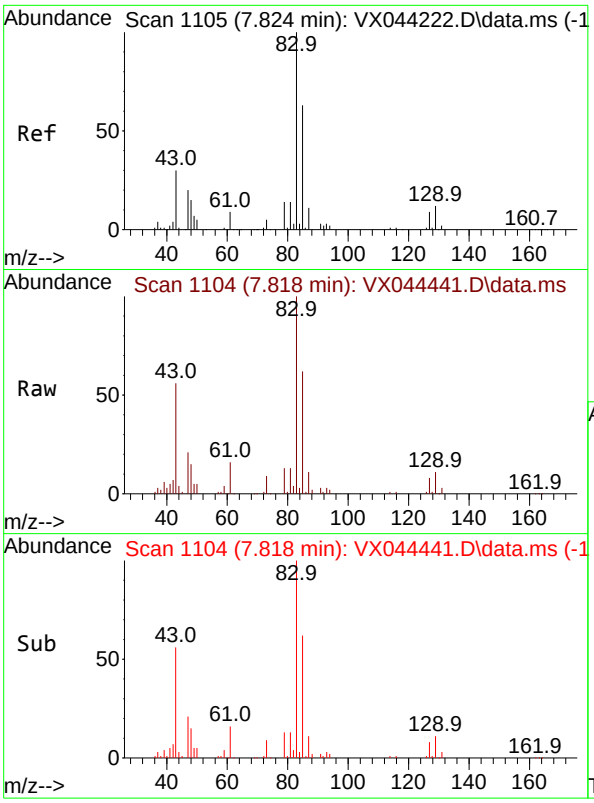


#46
Dibromomethane
Concen: 19.737 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 93 Resp: 26495

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.4	98.2
174	92.4	67.9	101.9



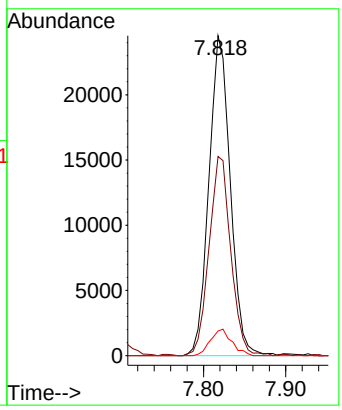


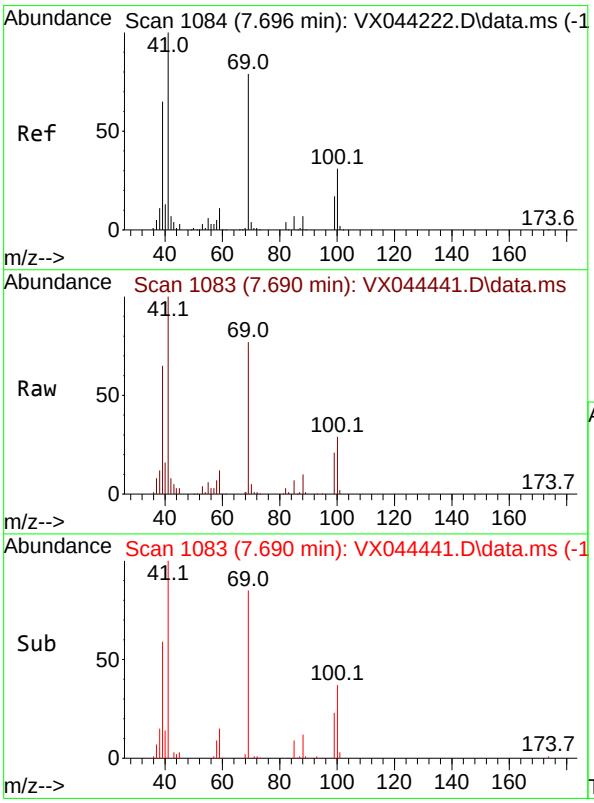
#47
Bromodichloromethane
Concen: 19.132 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 83 Resp: 44357

Ion	Ratio	Lower	Upper
83	100		
85	62.2	50.6	75.8
127	7.7	7.3	10.9

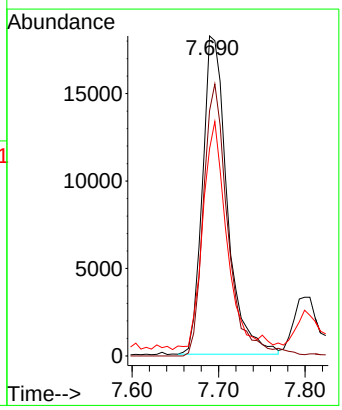


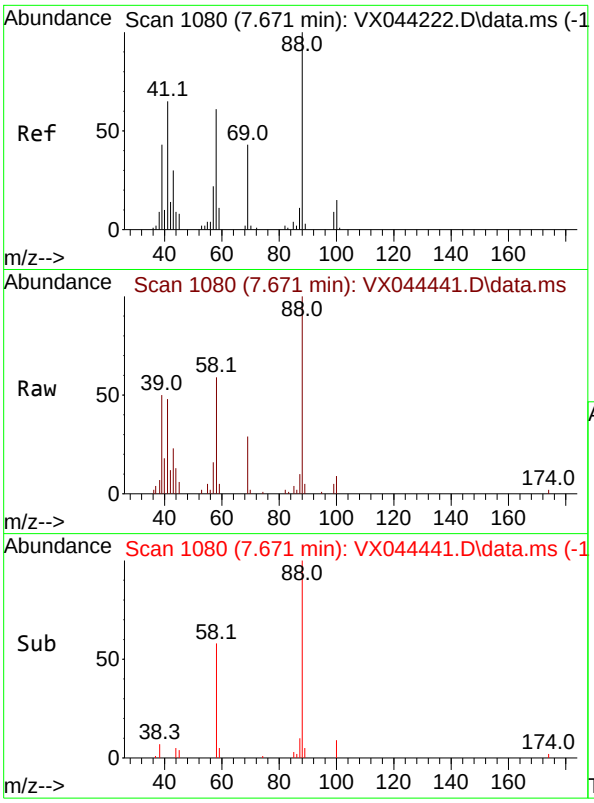


#48
Methyl methacrylate
Concen: 17.281 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 41 Resp: 36154

Ion	Ratio	Lower	Upper
41	100		
69	84.8	62.4	93.6
39	70.2	53.3	79.9



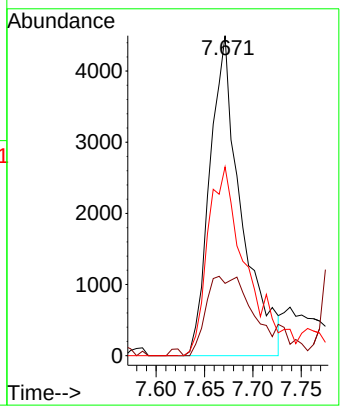


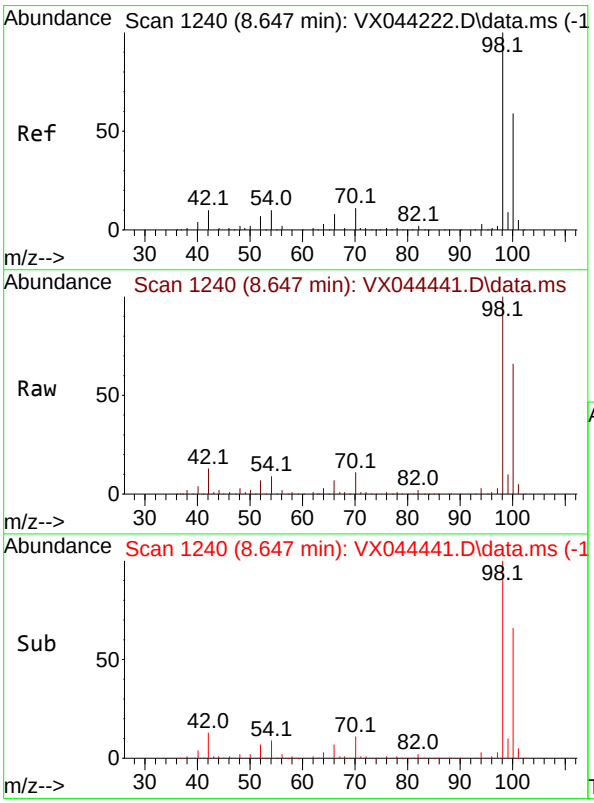
#49
1,4-Dioxane
Concen: 292.846 ug/l
RT: 7.671 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 88 Resp: 10158

Ion	Ratio	Lower	Upper
88	100		
43	36.0	27.1	40.7
58	73.5	41.0	61.4#

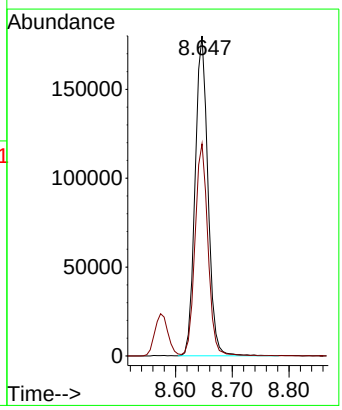


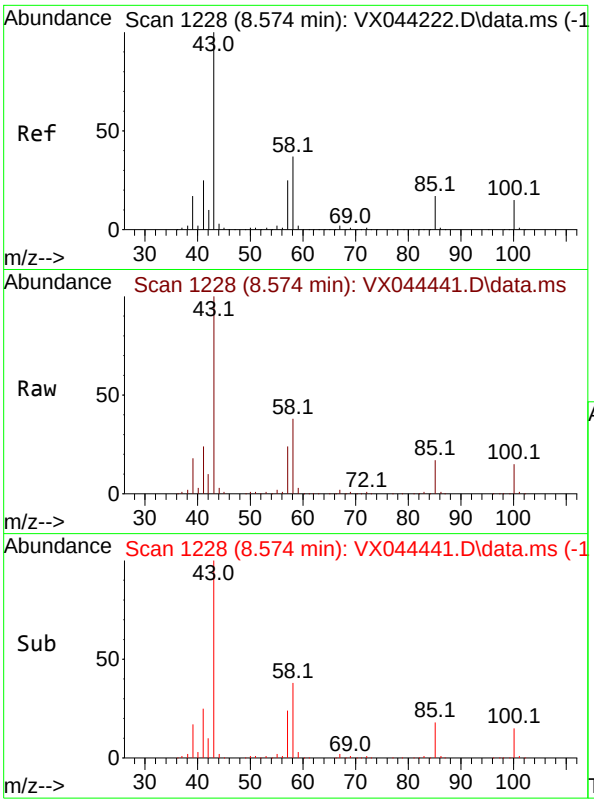


#50
Toluene-d8
Concen: 48.669 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 98 Resp: 283358

Ion	Ratio	Lower	Upper
98	100		
100	66.4	51.5	77.3



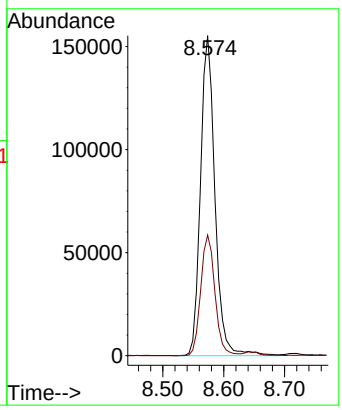


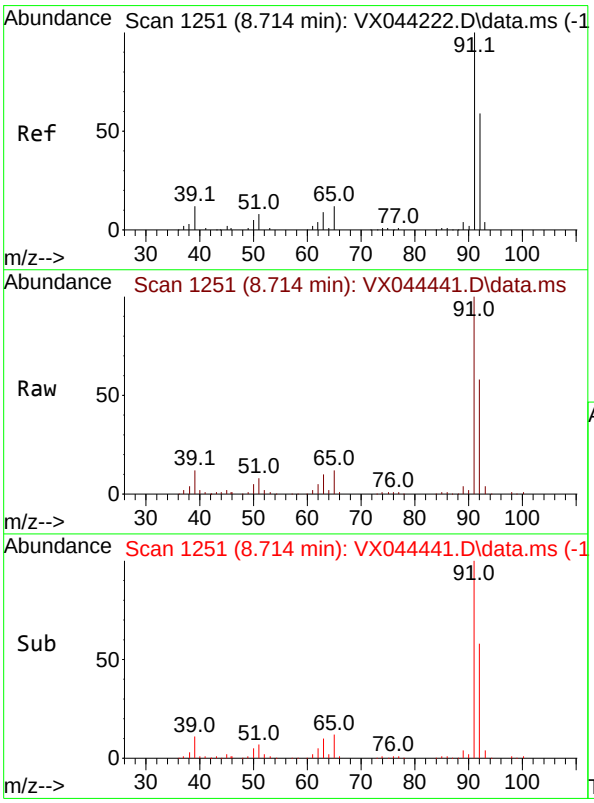
#51
4-Methyl-2-Pentanone
Concen: 92.373 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 43 Resp: 255984

Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.4	44.0

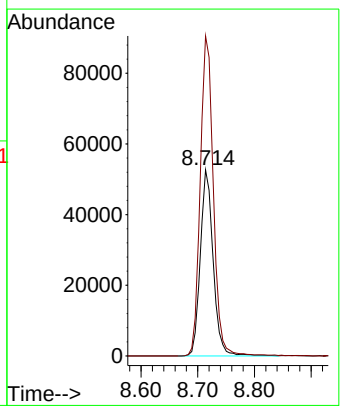


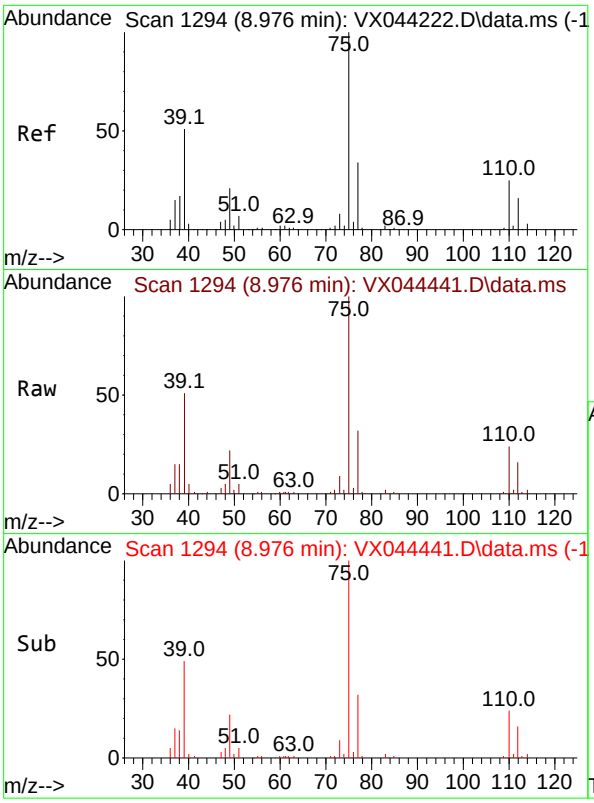


#52
Toluene
Concen: 19.504 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 92 Resp: 82957

Ion	Ratio	Lower	Upper
92	100		
91	175.4	137.0	205.6



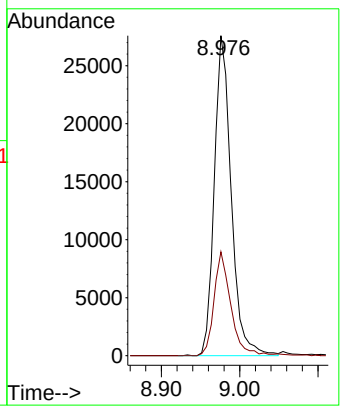


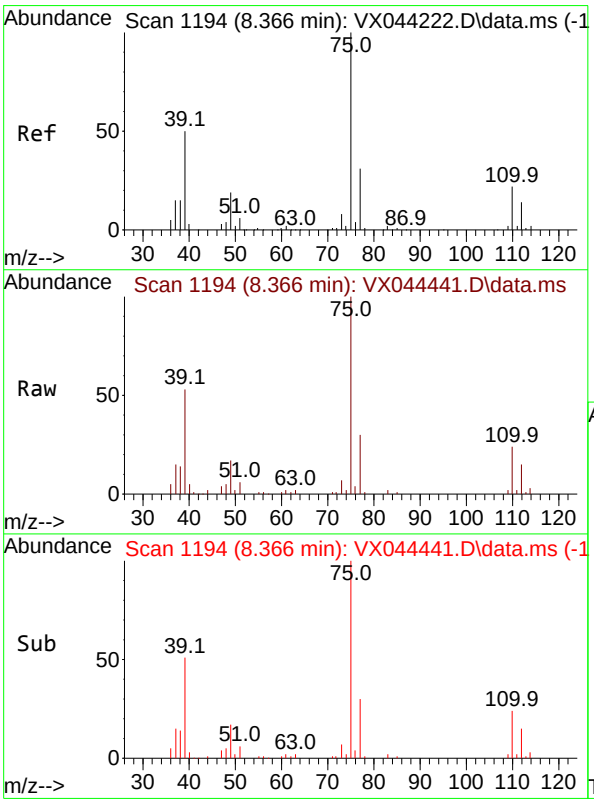
#53
t-1,3-Dichloropropene
Concen: 17.860 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 75 Resp: 41417

Ion	Ratio	Lower	Upper
75	100		
77	32.4	27.2	40.8

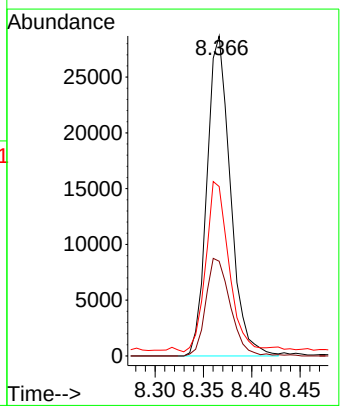


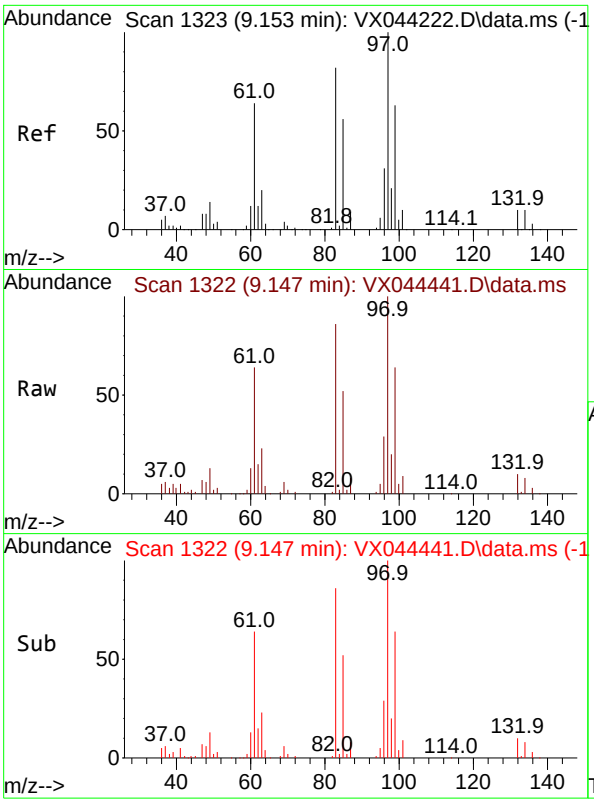


#54
cis-1,3-Dichloropropene
Concen: 19.157 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 48359

Ion	Ratio	Lower	Upper
75	100		
77	29.6	24.7	37.1
39	51.1	40.3	60.5



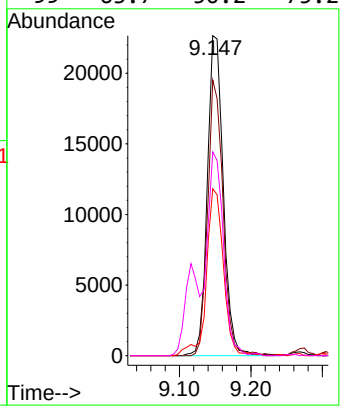


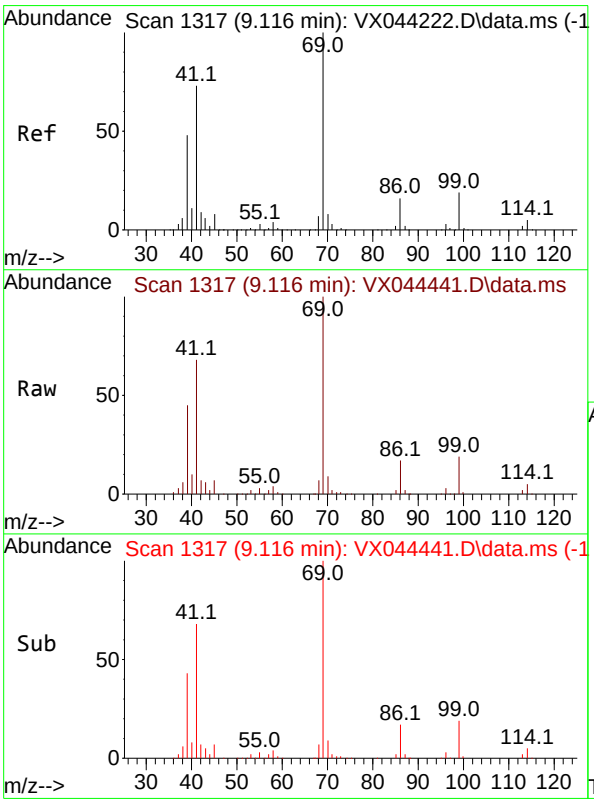
#55
1,1,2-Trichloroethane
Concen: 20.801 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 97 Resp: 35148

Ion	Ratio	Lower	Upper
97	100		
83	86.1	65.3	97.9
85	51.7	44.6	67.0
99	63.7	50.2	75.2

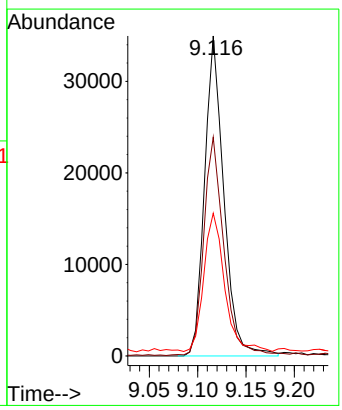


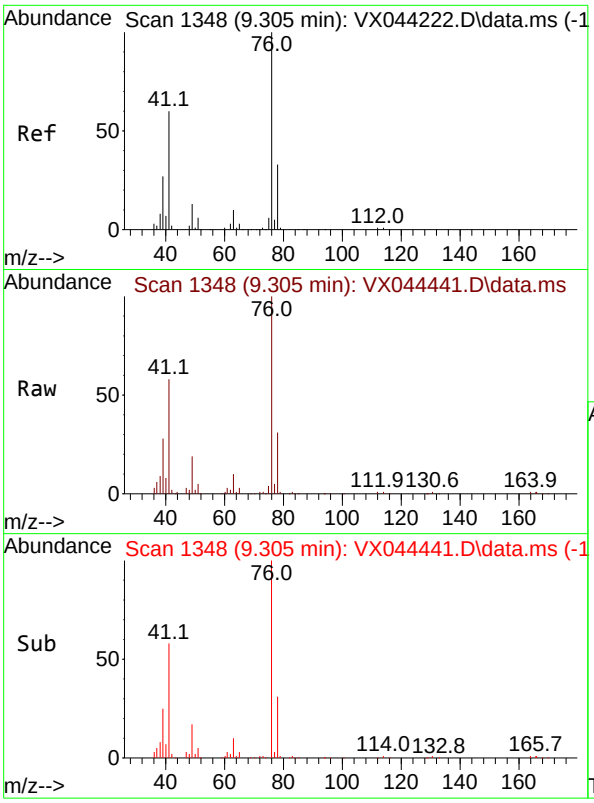


#56
Ethyl methacrylate
Concen: 18.235 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 69 Resp: 48642

Ion	Ratio	Lower	Upper
69	100		
41	71.0	56.6	85.0
39	46.3	37.4	56.0



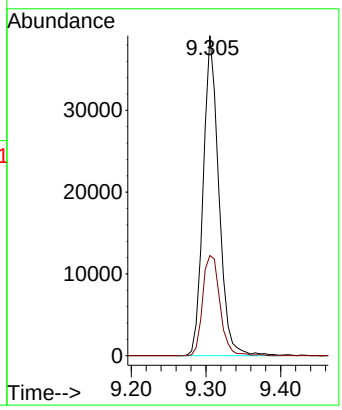


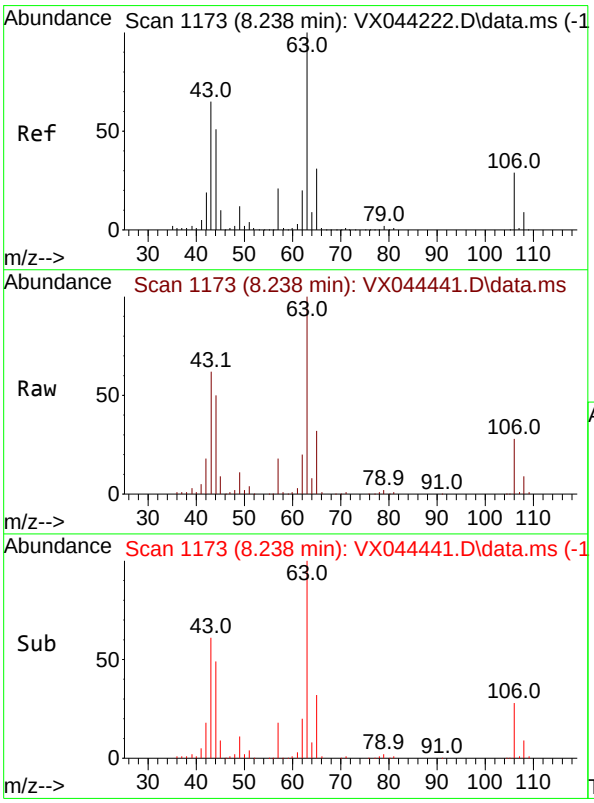
#57
1,3-Dichloropropane
Concen: 19.260 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 76 Resp: 56644

Ion	Ratio	Lower	Upper
76	100		
78	34.8	26.5	39.7

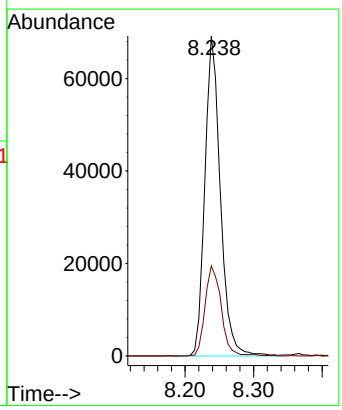


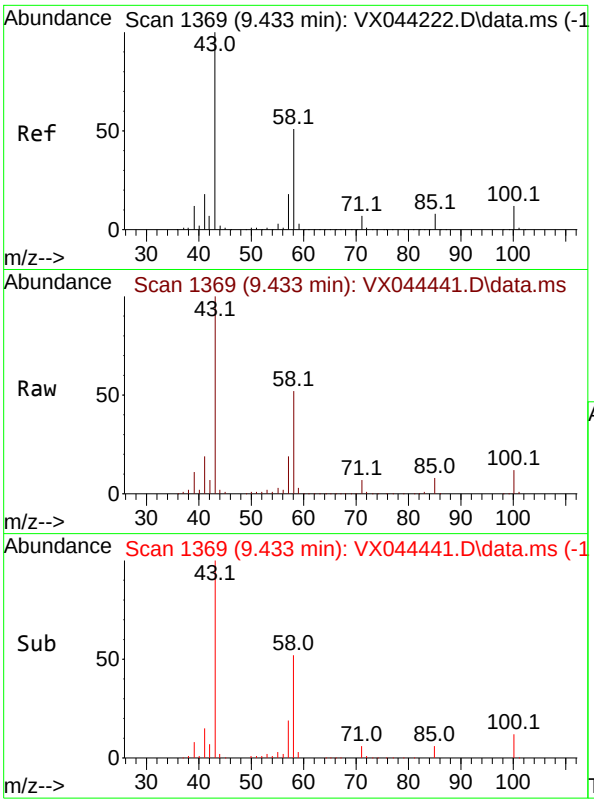


#58
2-Chloroethyl Vinyl ether
Concen: 81.033 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 63 Resp: 109022

Ion	Ratio	Lower	Upper
63	100		
106	29.3	22.8	34.2



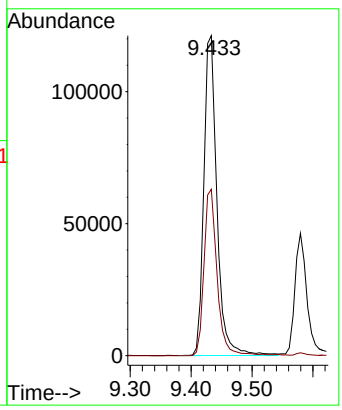


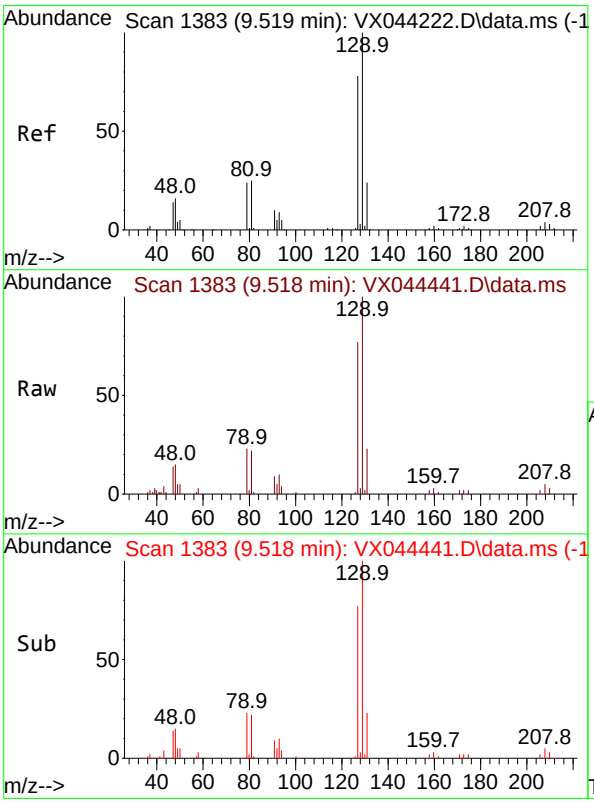
#59
2-Hexanone
Concen: 90.356 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 43 Resp: 181241

Ion	Ratio	Lower	Upper
43	100		
58	52.2	25.7	77.0

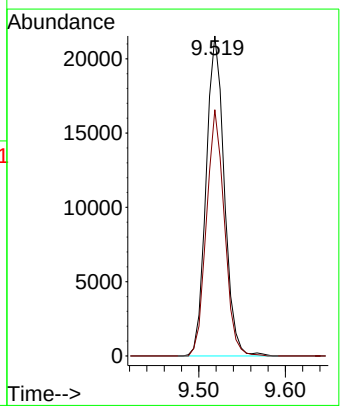


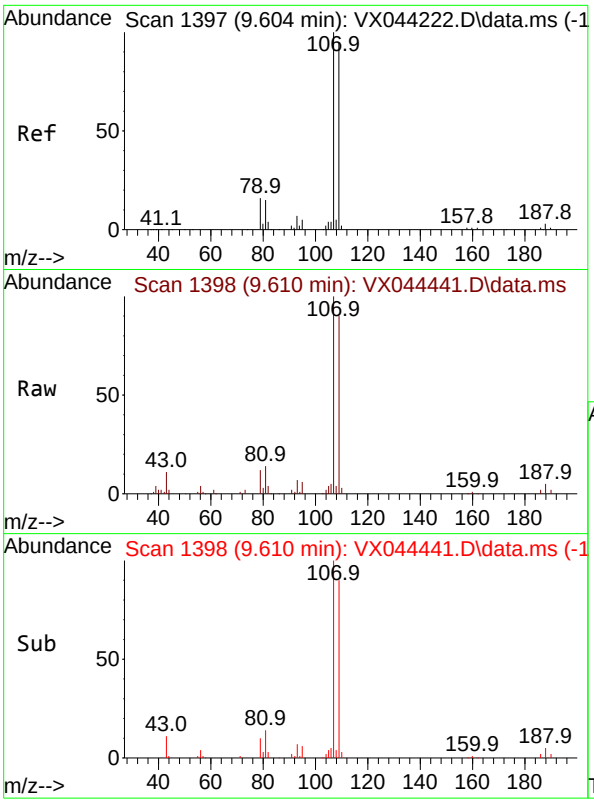


#60
Dibromochloromethane
Concen: 18.848 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:129 Resp: 31411

Ion	Ratio	Lower	Upper
129	100		
127	75.9	38.5	115.3



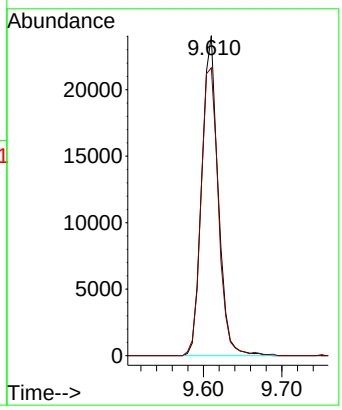


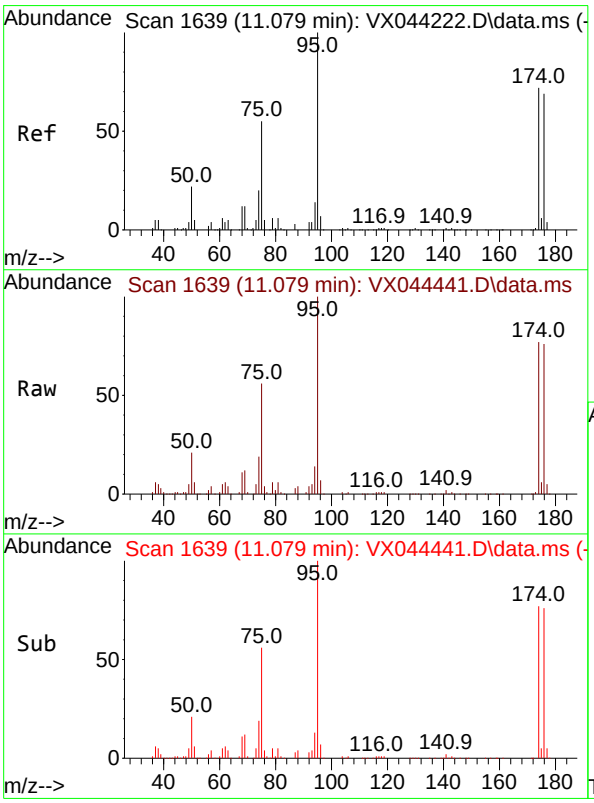
#61
1,2-Dibromoethane
Concen: 20.234 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:107 Resp: 34801

Ion	Ratio	Lower	Upper
107	100		
109	96.1	77.0	115.4

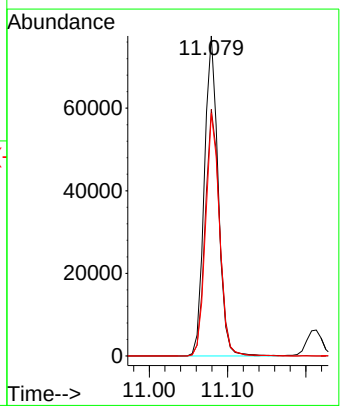


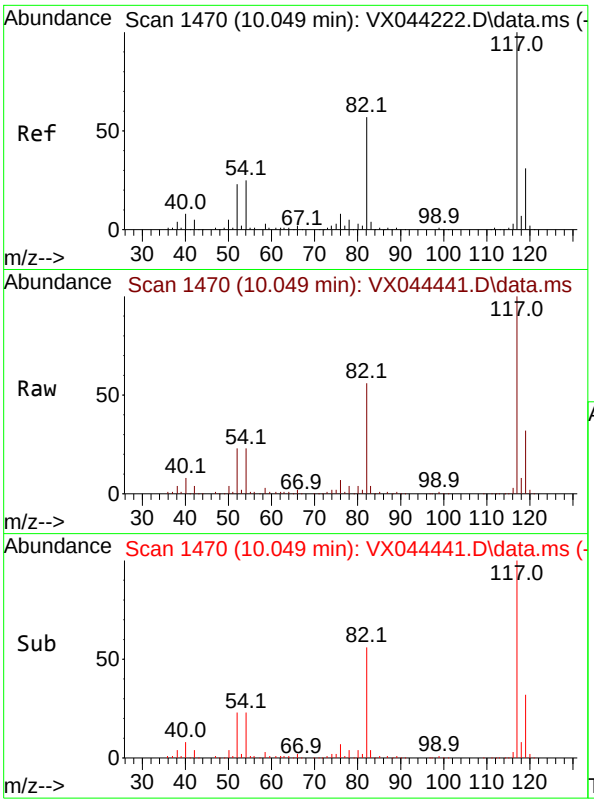


#62
4-Bromofluorobenzene
Concen: 46.443 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 95 Resp: 94485

Ion	Ratio	Lower	Upper
95	100		
174	79.5	0.0	145.8
176	76.2	0.0	137.8



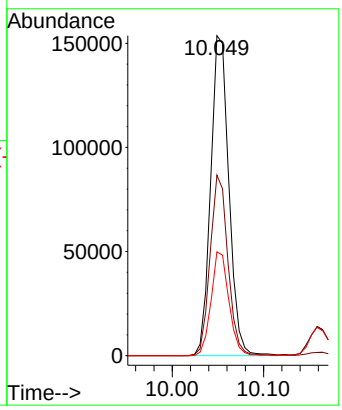


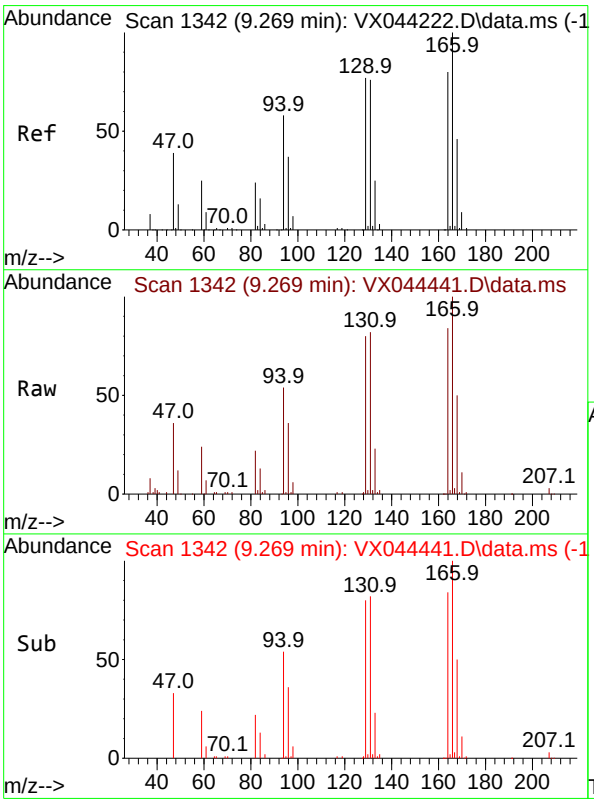
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:117 Resp: 212384

Ion	Ratio	Lower	Upper
117	100		
82	56.4	45.8	68.8
119	32.5	25.0	37.4

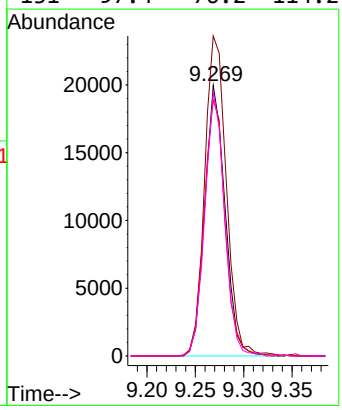


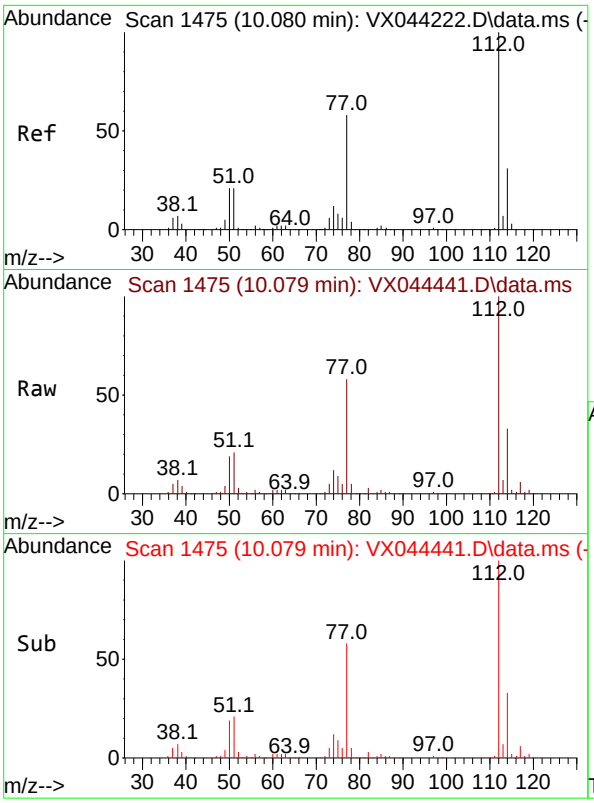


#64
Tetrachloroethene
Concen: 20.762 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:164 Resp: 29267

Ion	Ratio	Lower	Upper
164	100		
166	118.4	100.4	150.6
129	94.7	77.2	115.8
131	97.4	76.2	114.2



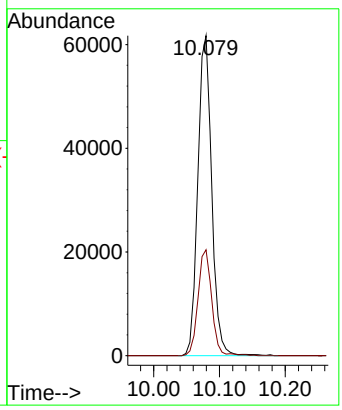


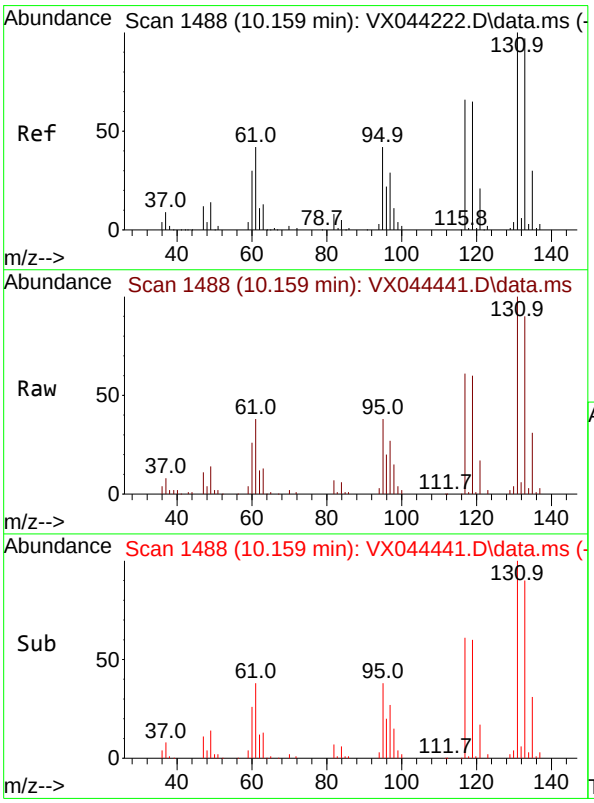
#65
Chlorobenzene
Concen: 19.906 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:112 Resp: 90589

Ion	Ratio	Lower	Upper
112	100		
114	33.1	25.0	37.6

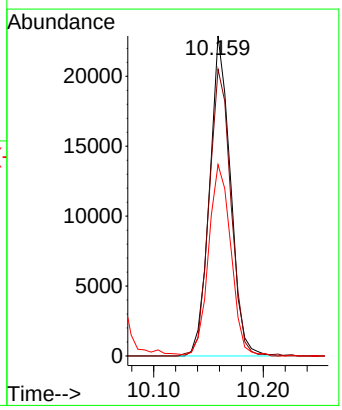


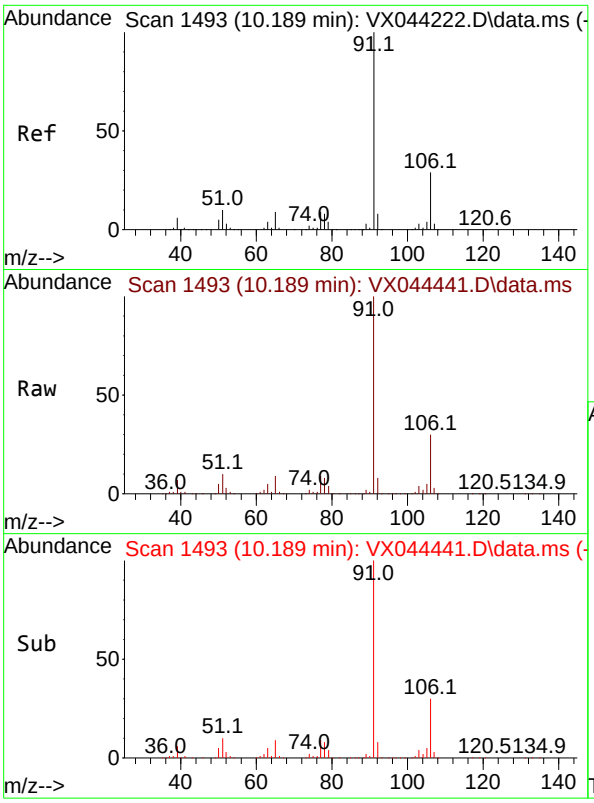


#66
1,1,1,2-Tetrachloroethane
Concen: 20.643 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:131 Resp: 30193

Ion	Ratio	Lower	Upper
131	100		
133	93.9	47.3	141.8
119	63.9	31.6	95.0



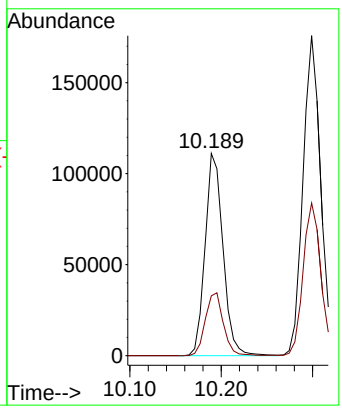


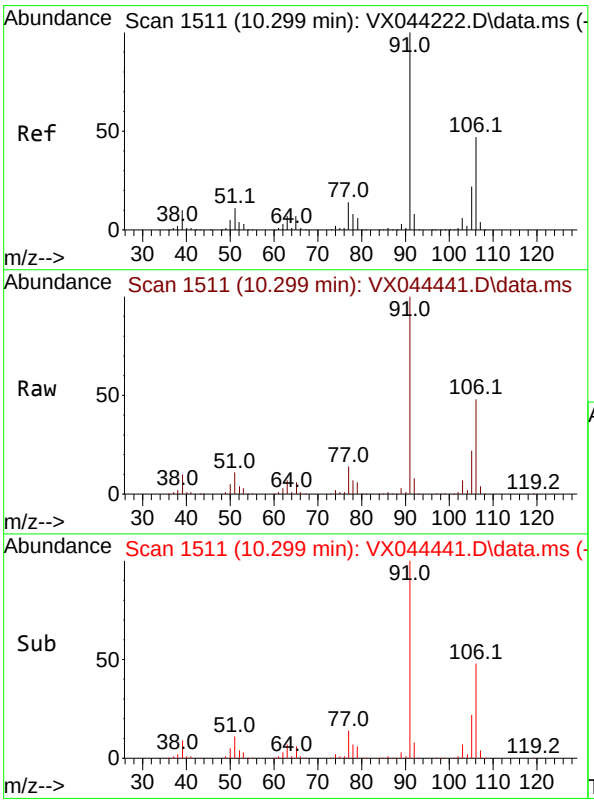
#67
Ethyl Benzene
Concen: 19.217 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 91 Resp: 151105

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.5	35.3

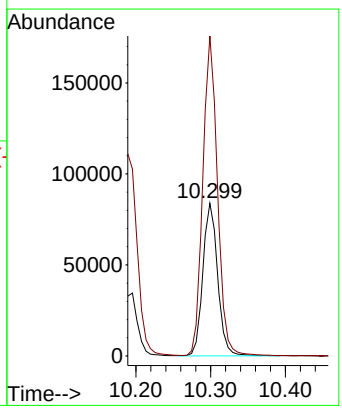


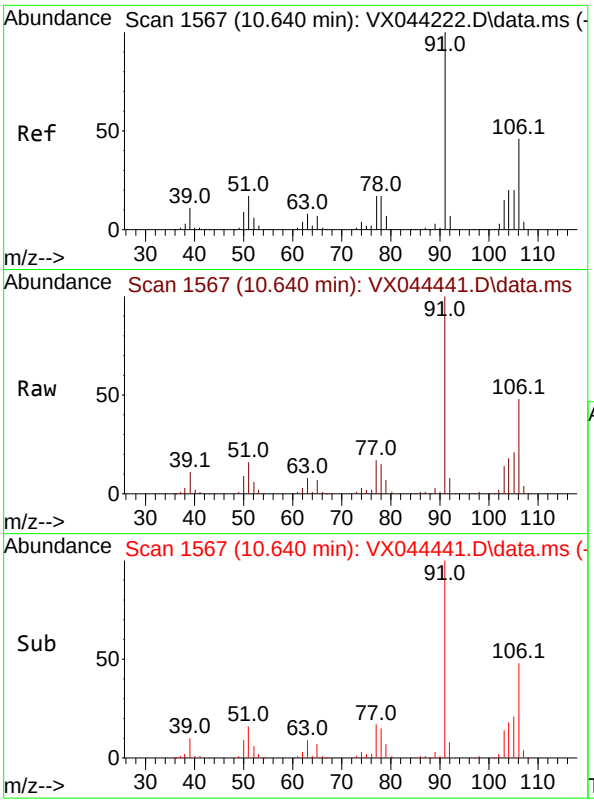


#68
m/p-Xylenes
Concen: 39.825 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:106 Resp: 114910

Ion	Ratio	Lower	Upper
106	100		
91	208.6	170.2	255.2



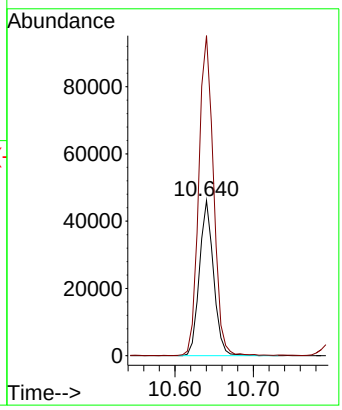


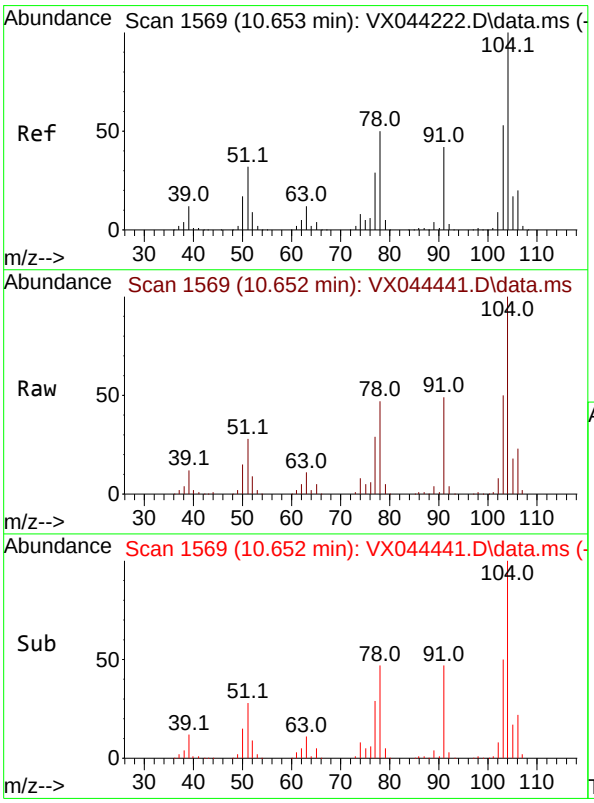
#69
o-Xylene
Concen: 19.797 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:106 Resp: 57794

Ion	Ratio	Lower	Upper
106	100		
91	216.0	112.3	337.0

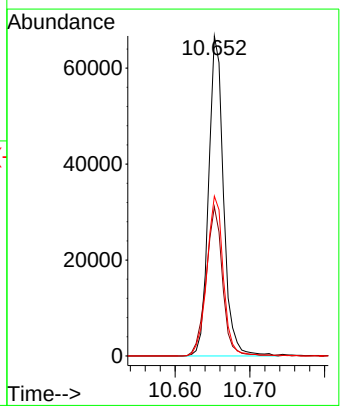


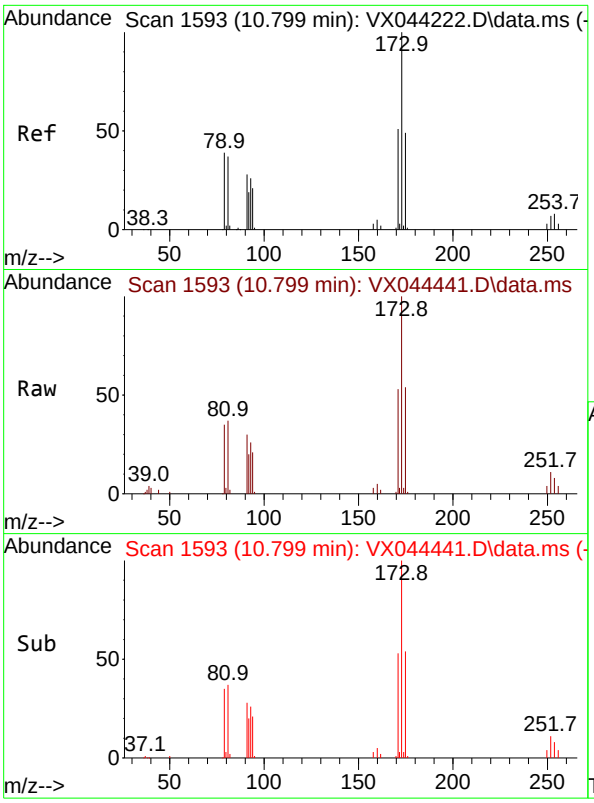


#70
Styrene
Concen: 19.825 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:104 Resp: 92784

Ion	Ratio	Lower	Upper
104	100		
78	51.2	44.6	67.0
103	55.0	45.4	68.0



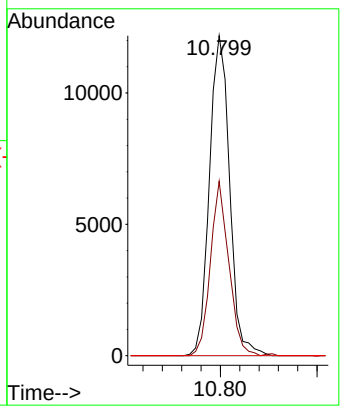


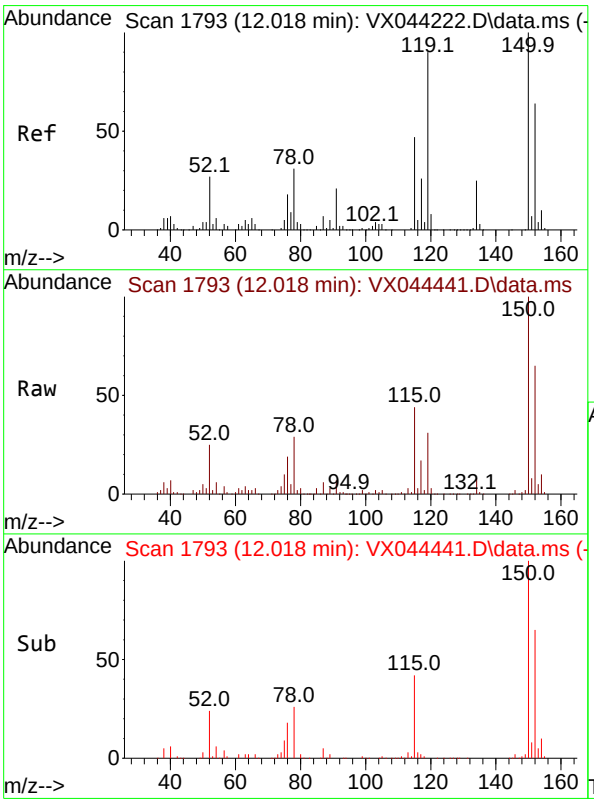
#71
Bromoform
Concen: 19.275 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:173 Resp: 17659

Ion	Ratio	Lower	Upper
173	100		
175	49.7	23.8	71.4
254	0.0	0.0	0.0

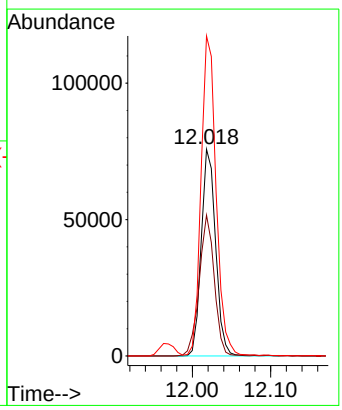


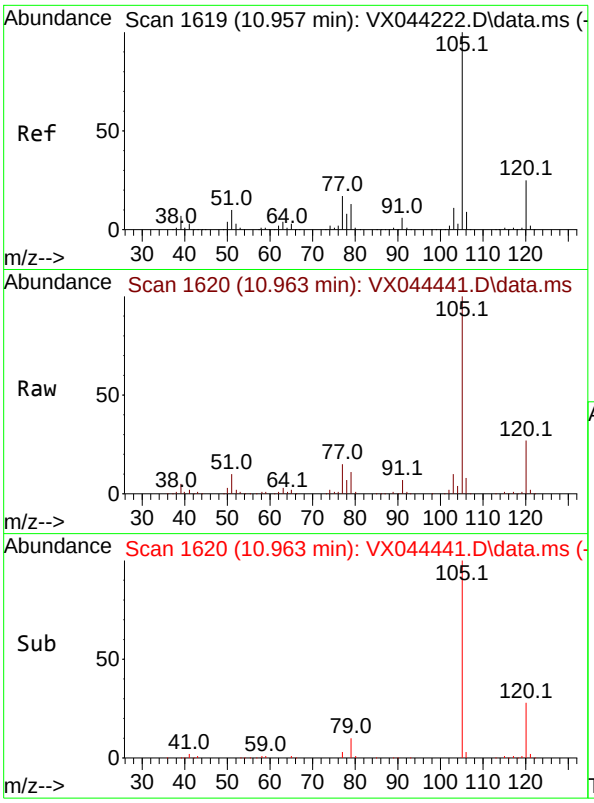


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:152 Resp: 96885

Ion	Ratio	Lower	Upper
152	100		
115	71.2	44.5	133.3
150	160.7	0.0	353.8



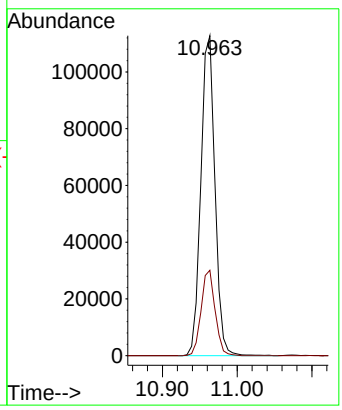


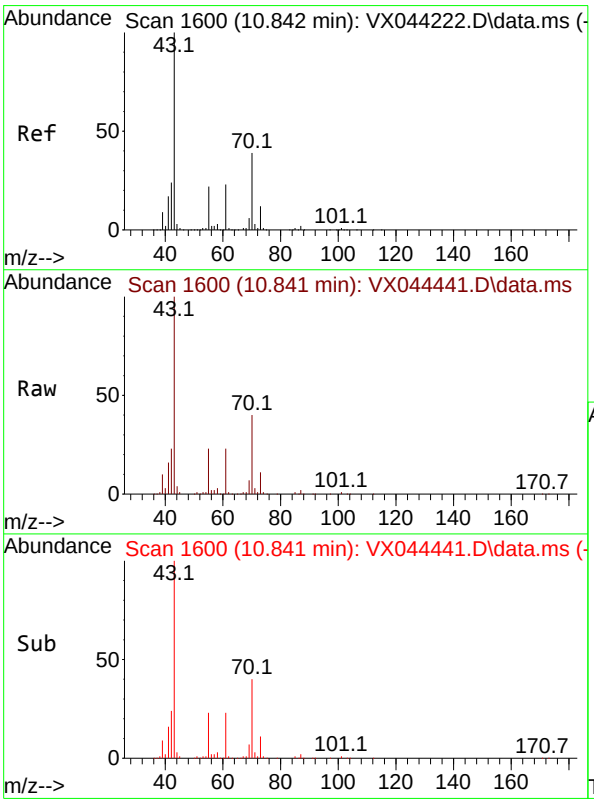
#73
Isopropylbenzene
Concen: 19.872 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:105 Resp: 147393

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.1	39.3

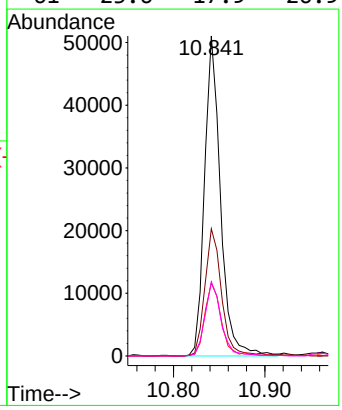


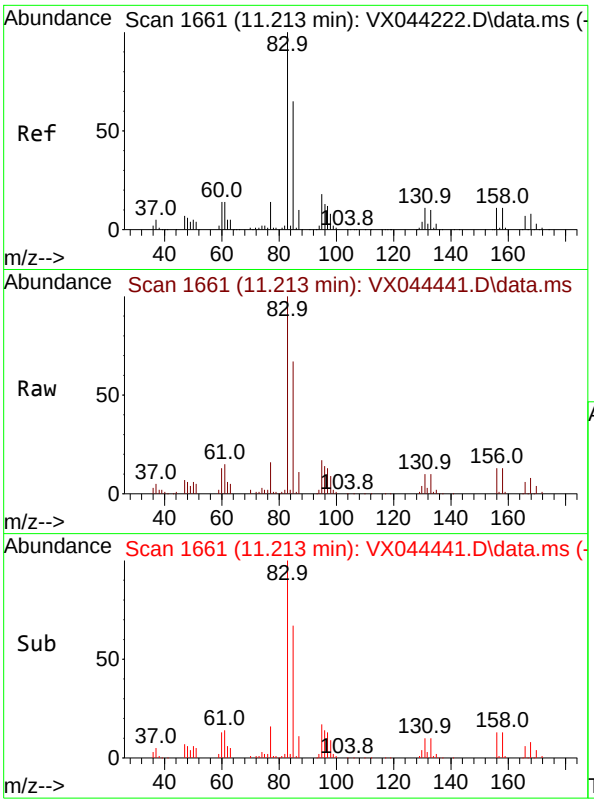


#74
N-amyl acetate
Concen: 18.038 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 61829

Ion	Ratio	Lower	Upper
43	100		
70	41.5	31.9	47.9
55	23.7	17.9	26.9
61	23.6	17.9	26.9



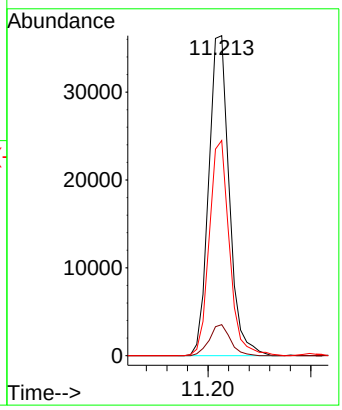


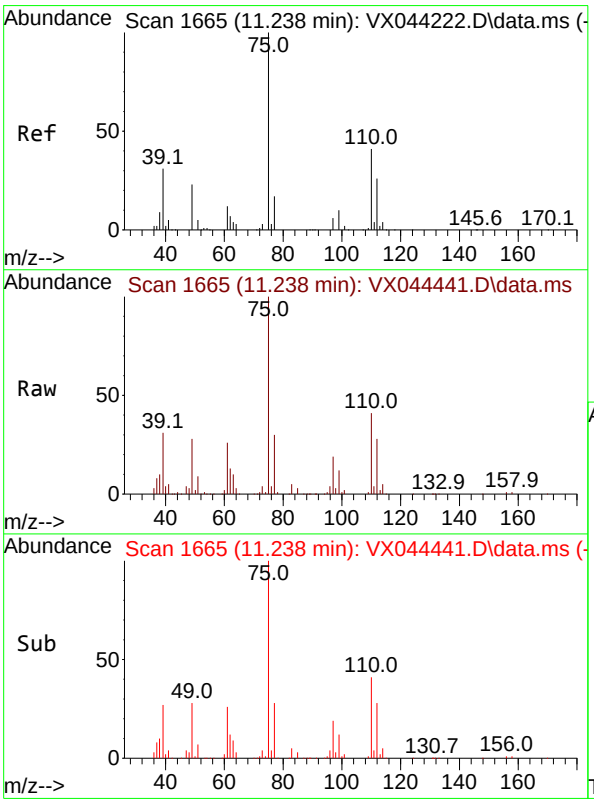
#75
1,1,2,2-Tetrachloroethane
Concen: 19.570 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 83 Resp: 50416

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	65.9	32.5	97.4

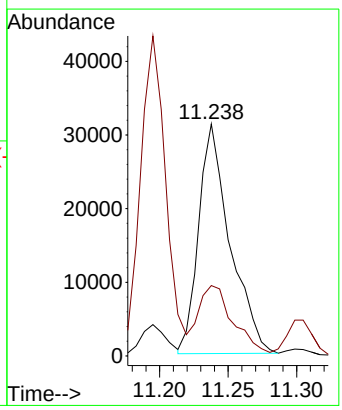


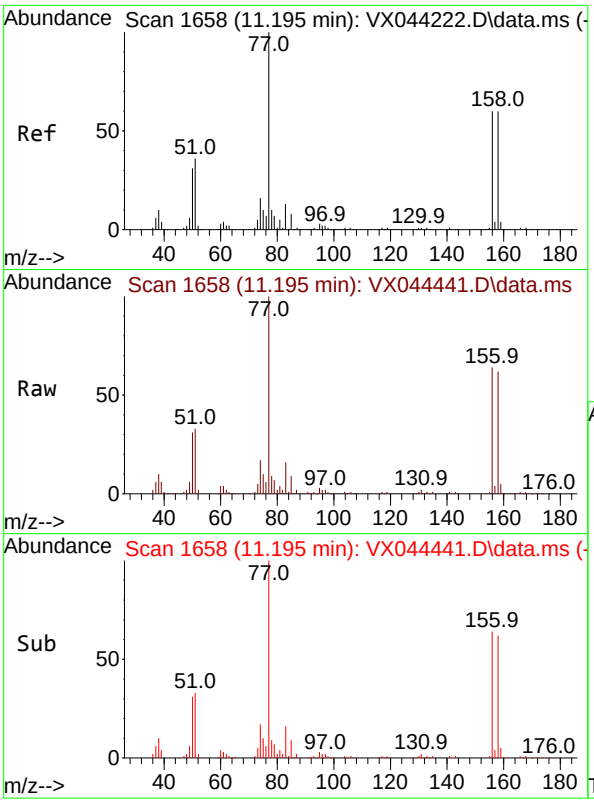


#76
1,2,3-Trichloropropane
Concen: 23.007 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 49769

Ion	Ratio	Lower	Upper
75	100		
77	34.3	20.9	62.7



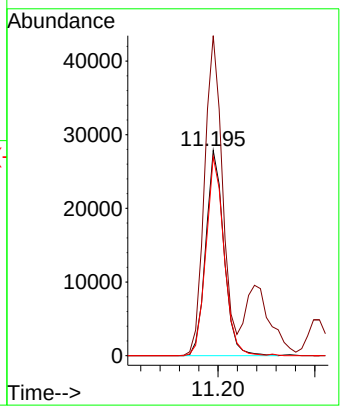


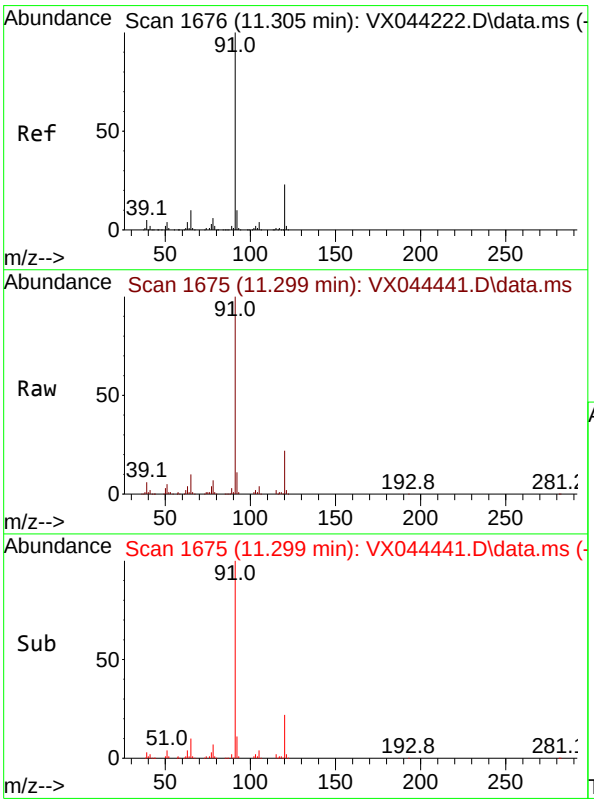
#77
Bromobenzene
Concen: 20.145 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:156 Resp: 36233

Ion	Ratio	Lower	Upper
156	100		
77	155.2	82.6	247.8
158	96.9	48.8	146.4

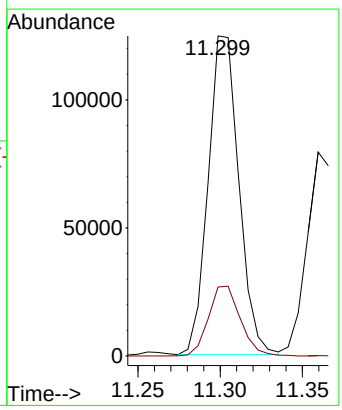


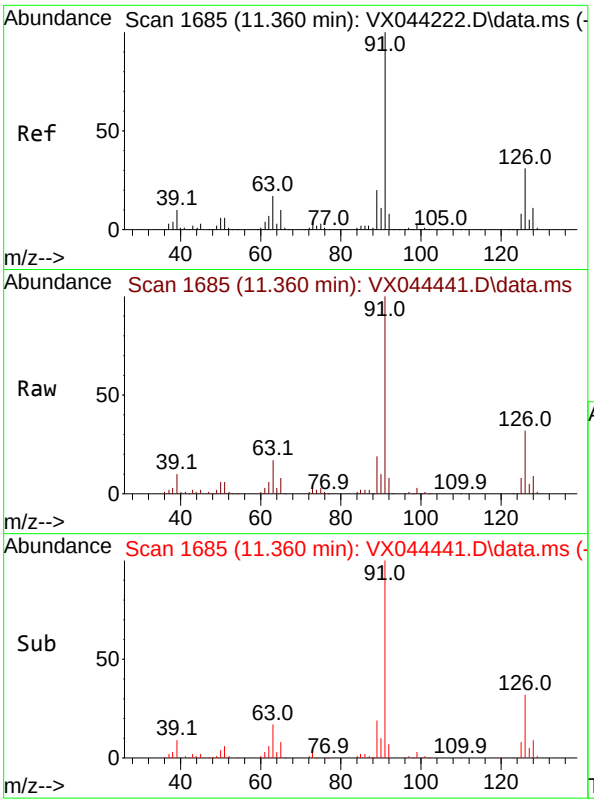


#78
n-propylbenzene
Concen: 19.765 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 162028

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.0	33.0



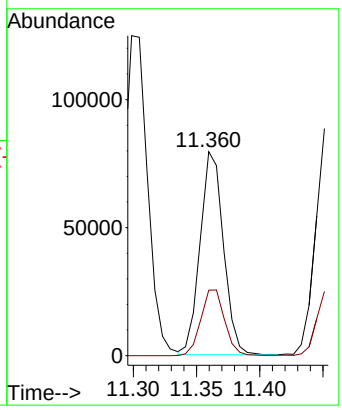


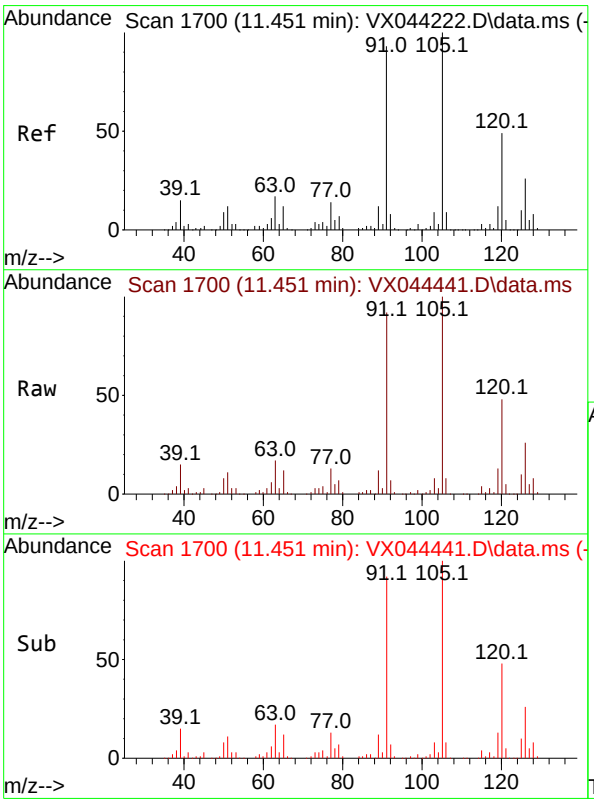
#79
2-Chlorotoluene
Concen: 19.279 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 91 Resp: 102209

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.1

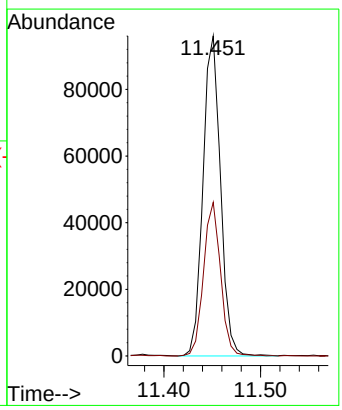


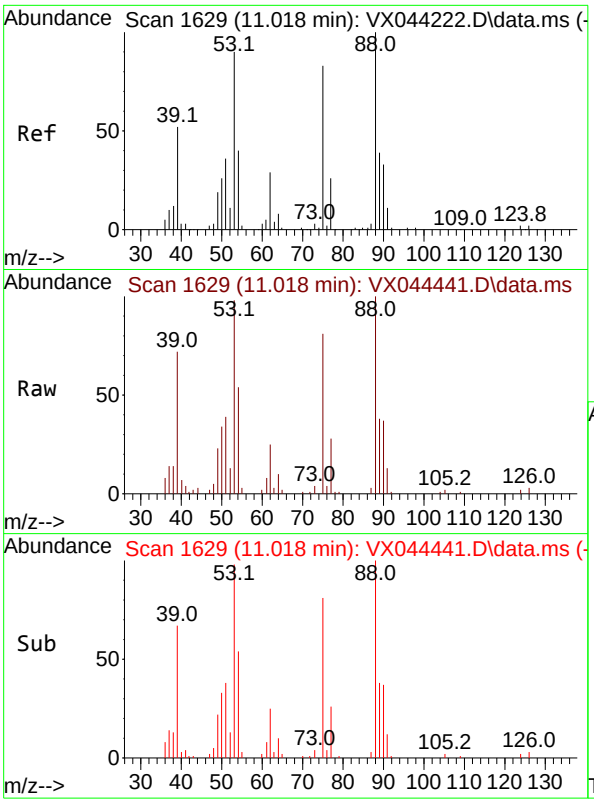


#80
1,3,5-Trimethylbenzene
Concen: 19.709 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:105 Resp: 121225

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.8	71.4



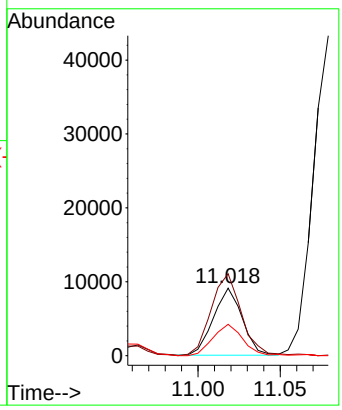


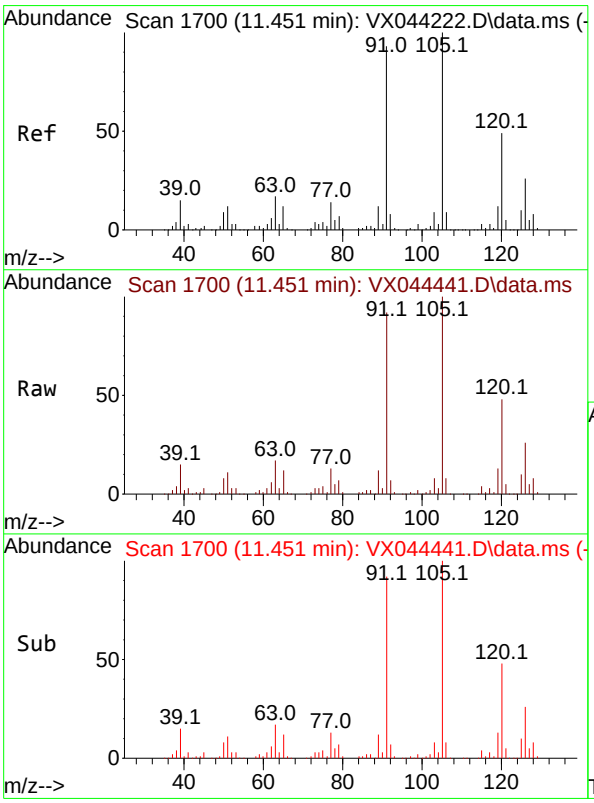
#81
trans-1,4-Dichloro-2-butene
Concen: 18.609 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 75 Resp: 11072

Ion	Ratio	Lower	Upper
75	100		
53	129.5	93.6	140.4
89	48.5	37.3	55.9

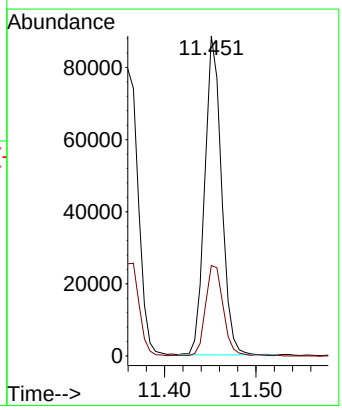


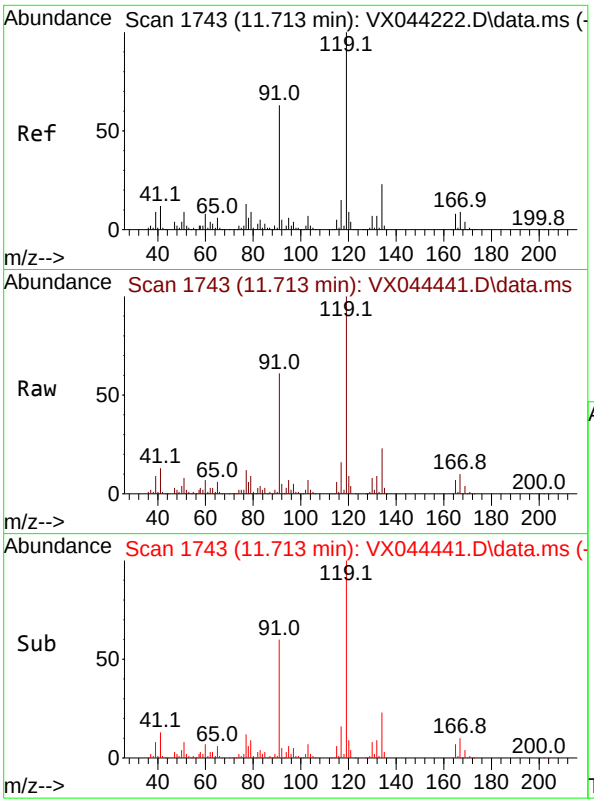


#82
4-Chlorotoluene
Concen: 19.122 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 112263

Ion	Ratio	Lower	Upper
91	100		
126	30.4	14.5	43.5



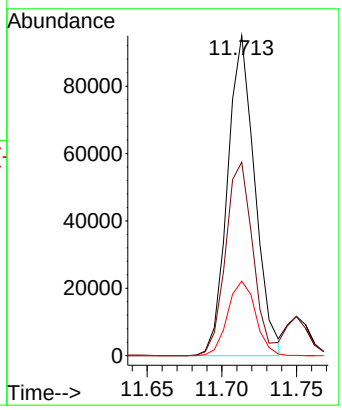


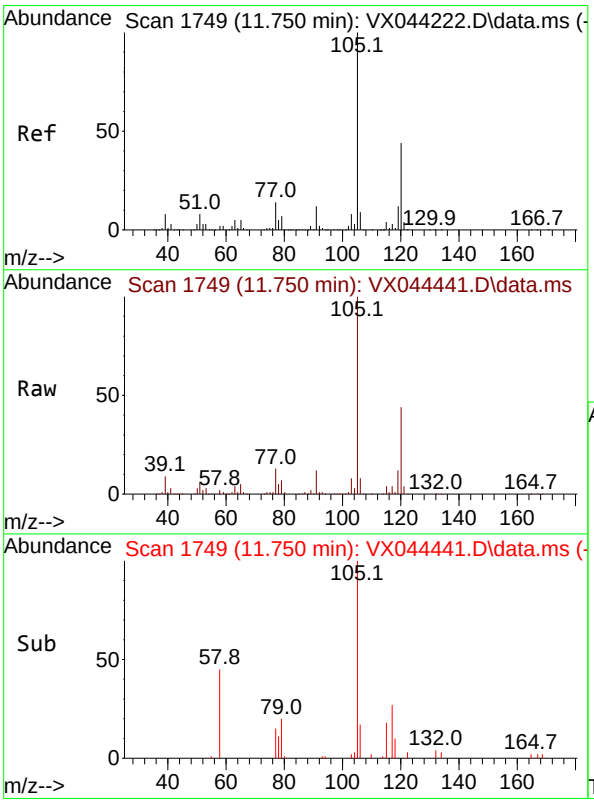
#83
tert-Butylbenzene
Concen: 19.827 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:119 Resp: 120518

Ion	Ratio	Lower	Upper
119	100		
91	61.1	30.9	92.5
134	23.9	11.5	34.4

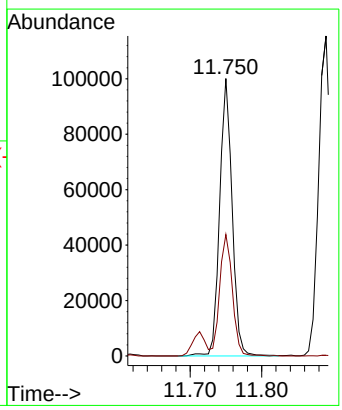


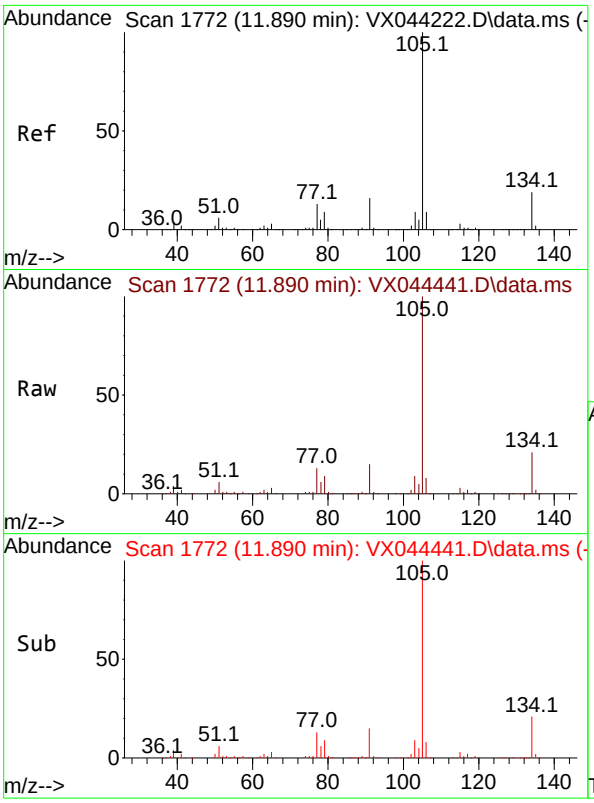


#84
1,2,4-Trimethylbenzene
Concen: 20.085 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:105 Resp: 121322

Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.7	65.1



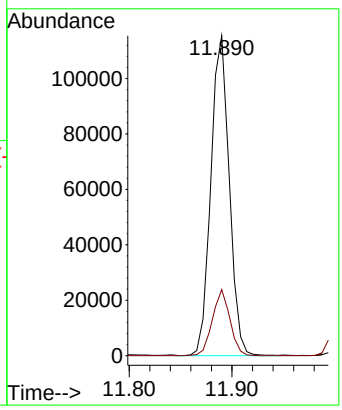


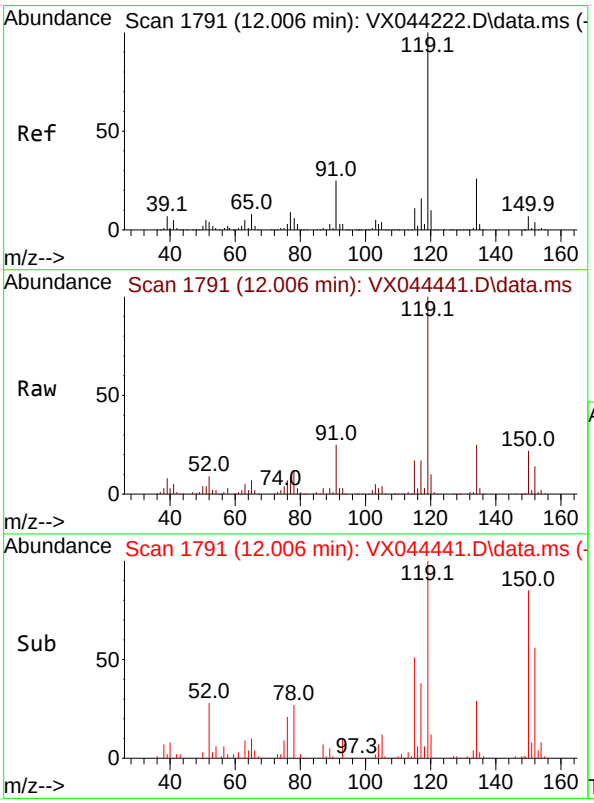
#85
sec-Butylbenzene
Concen: 19.477 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:105 Resp: 143732

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.4

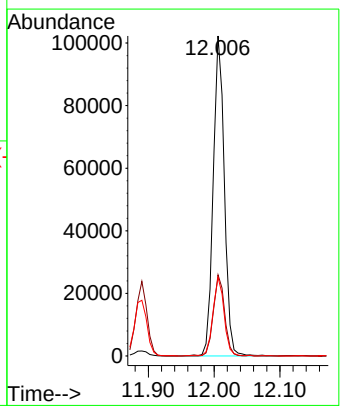


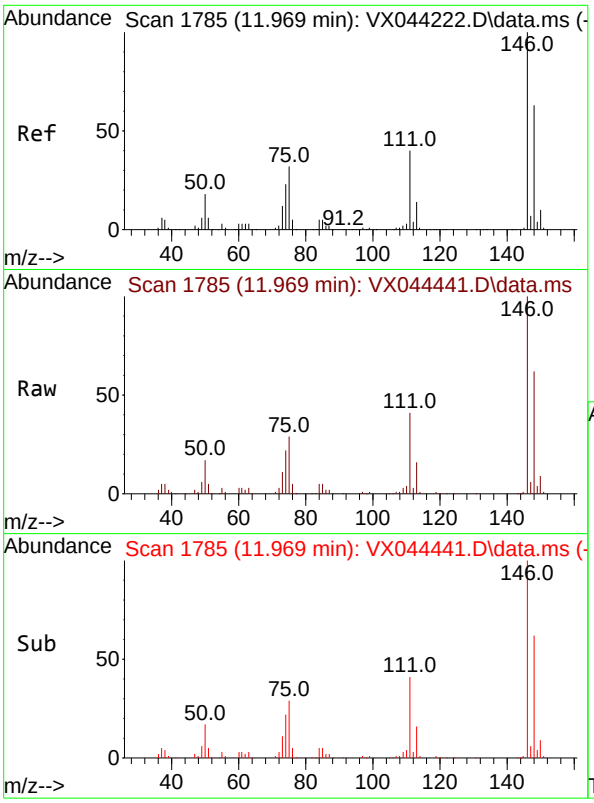


#86
p-Isopropyltoluene
Concen: 19.596 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:119 Resp: 120356

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.8	38.4
91	24.7	13.0	39.0



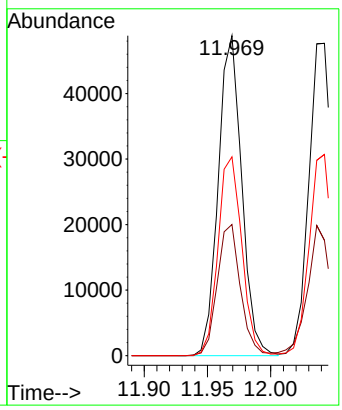


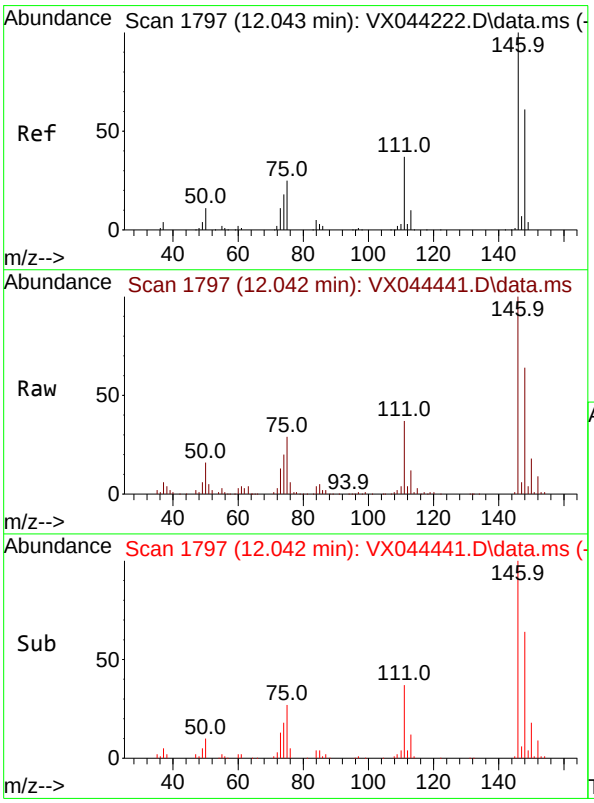
#87
1,3-Dichlorobenzene
Concen: 20.058 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:146 Resp: 63016

Ion	Ratio	Lower	Upper
146	100		
111	40.6	21.4	64.2
148	63.0	31.7	95.1

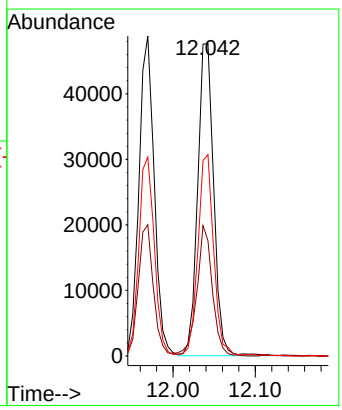


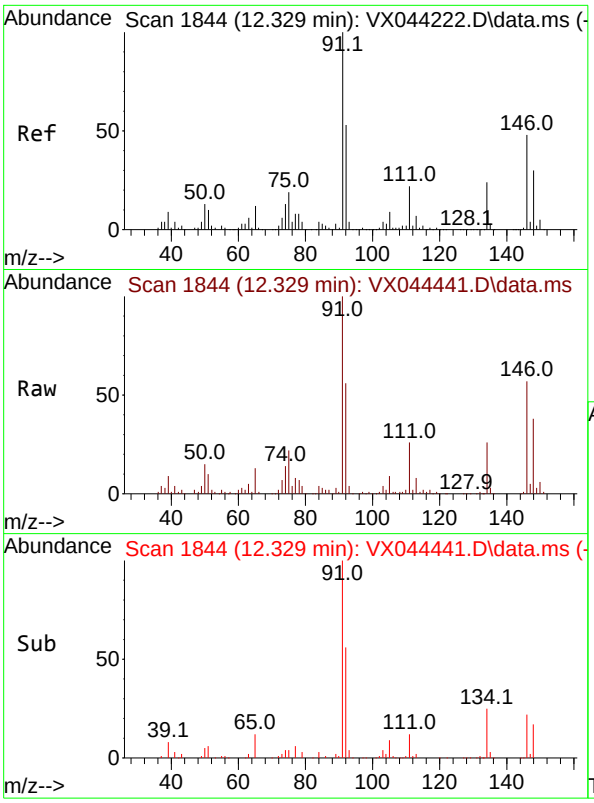


#88
1,4-Dichlorobenzene
Concen: 19.954 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:146 Resp: 64444

Ion	Ratio	Lower	Upper
146	100		
111	40.5	21.0	63.0
148	63.0	32.3	96.8



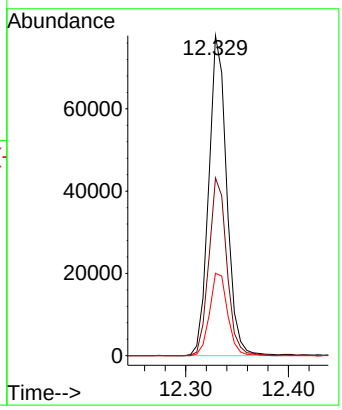


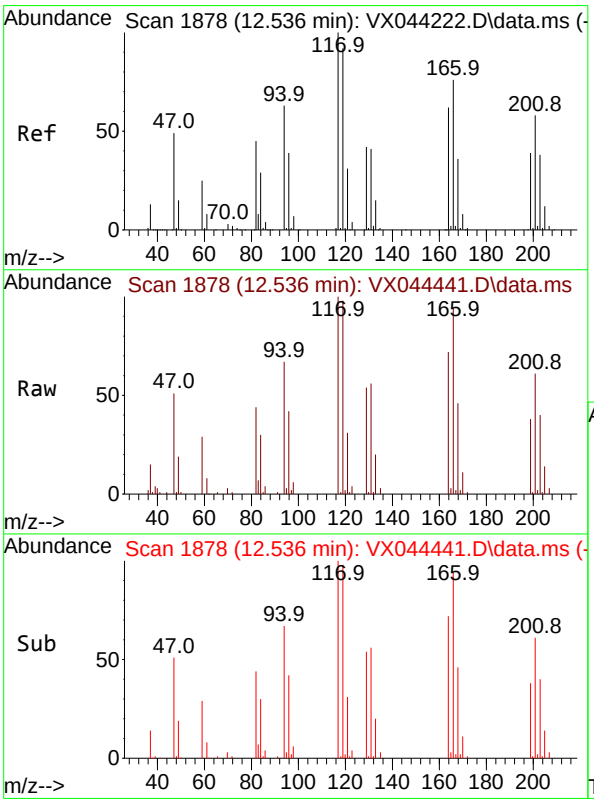
#89
n-Butylbenzene
Concen: 18.279 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 91 Resp: 94402

Ion	Ratio	Lower	Upper
91	100		
92	55.5	26.6	79.7
134	25.9	12.6	37.8

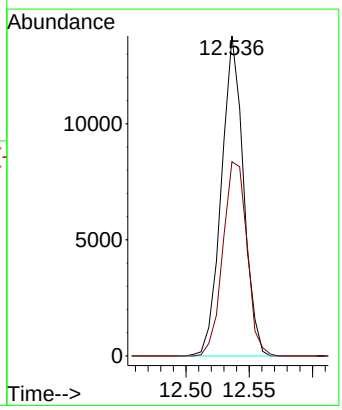


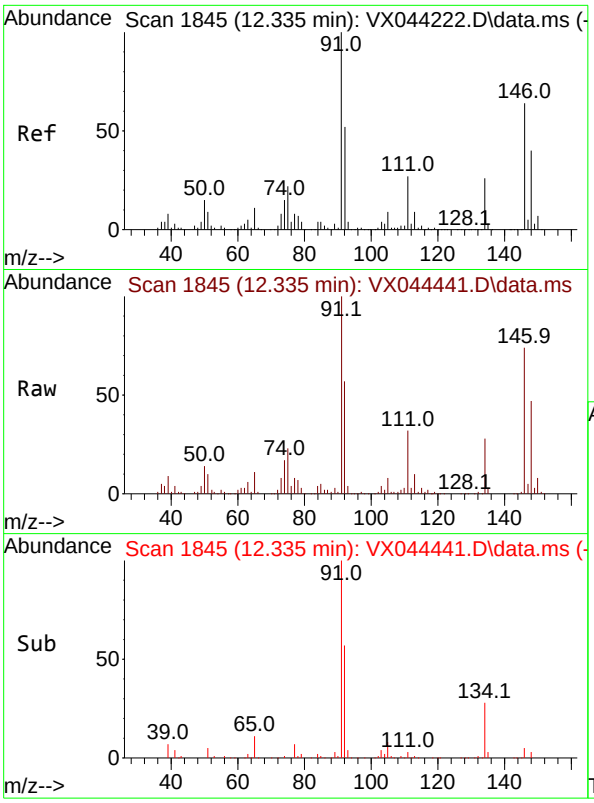


#90
Hexachloroethane
Concen: 18.640 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:117 Resp: 16712

Ion	Ratio	Lower	Upper
117	100		
201	66.5	31.4	94.2



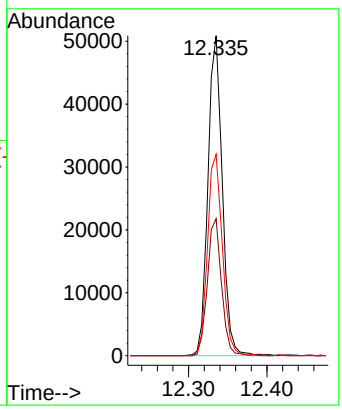


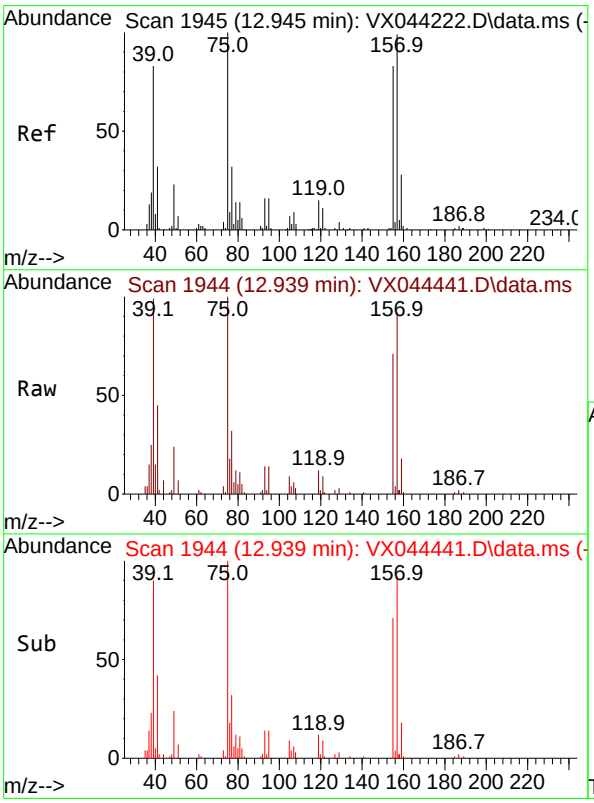
#91
1,2-Dichlorobenzene
Concen: 19.798 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:146 Resp: 64584

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.4	64.3
148	64.8	31.6	95.0

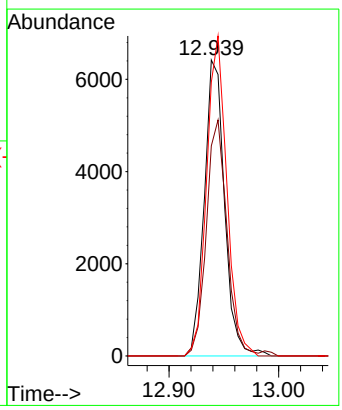


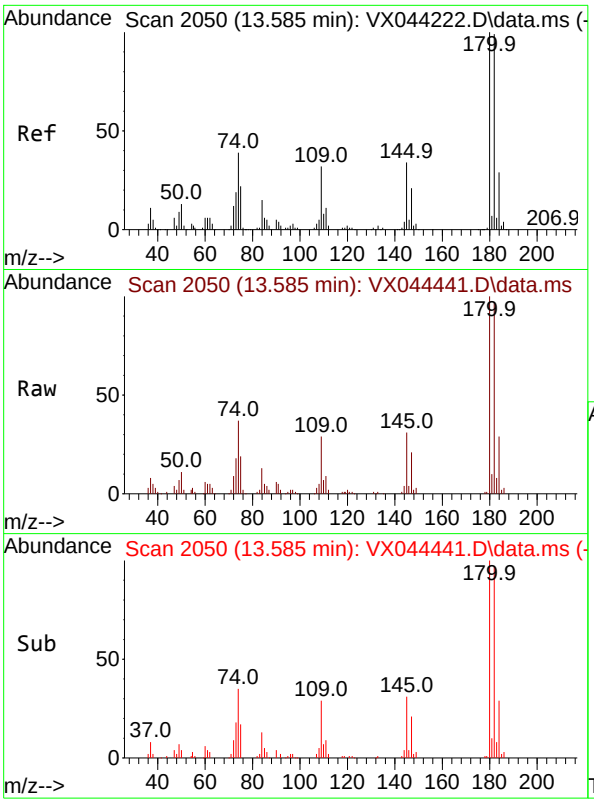


#92
1,2-Dibromo-3-Chloropropane
Concen: 16.523 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 8263

Ion	Ratio	Lower	Upper
75	100		
155	81.6	38.1	114.3
157	107.5	47.2	141.6



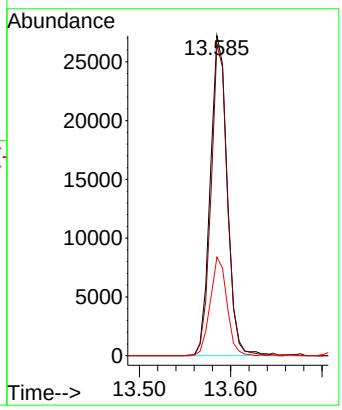


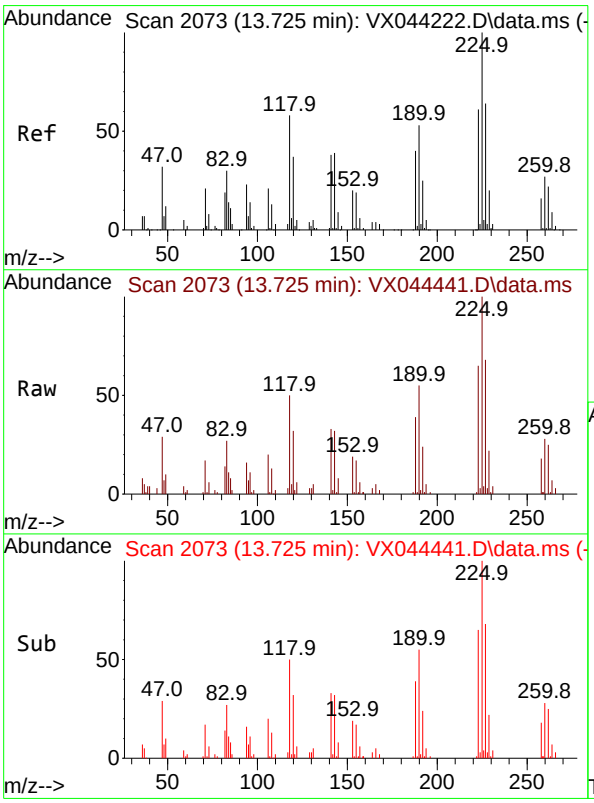
#93
1,2,4-Trichlorobenzene
Concen: 19.470 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:180 Resp: 34820

Ion	Ratio	Lower	Upper
180	100		
182	94.3	48.0	144.2
145	30.4	16.6	49.7

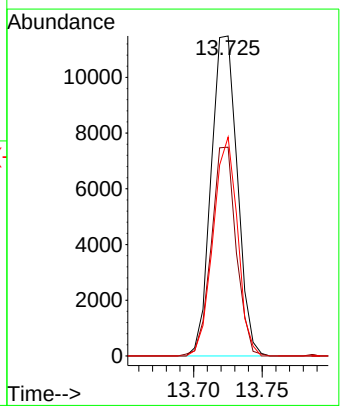


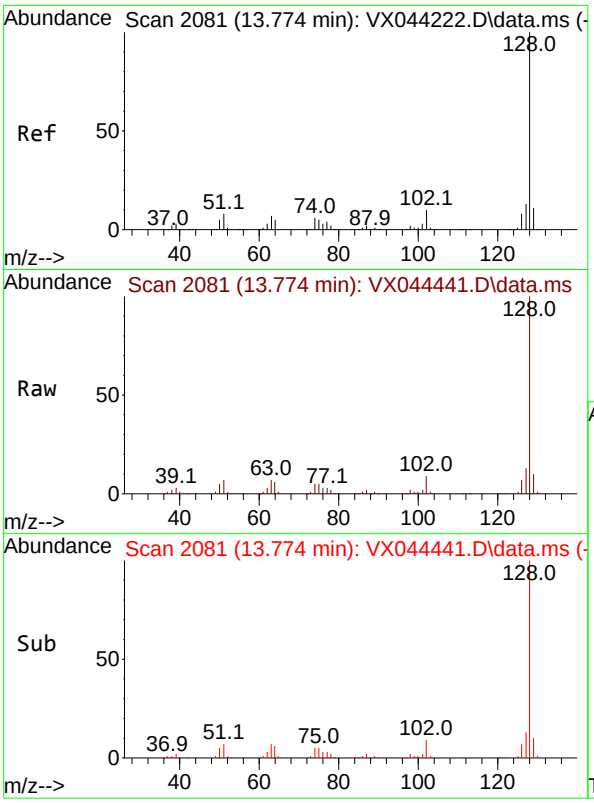


#94
Hexachlorobutadiene
Concen: 21.174 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:225 Resp: 15232

Ion	Ratio	Lower	Upper
225	100		
223	62.0	30.8	92.4
227	63.6	32.1	96.3



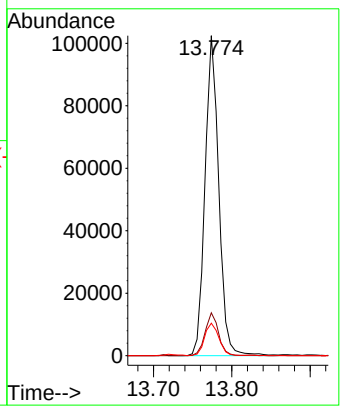


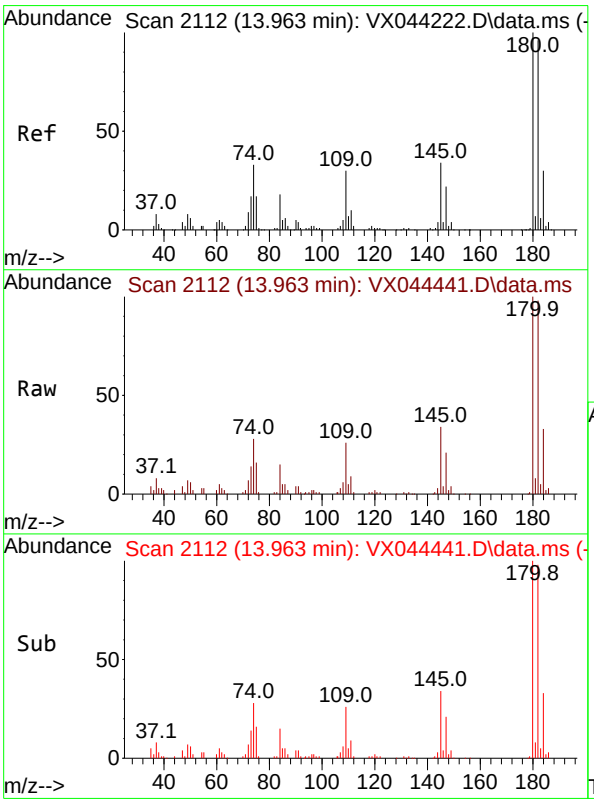
#95
Naphthalene
Concen: 17.830 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:128 Resp: 124472

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.7	9.0	13.4

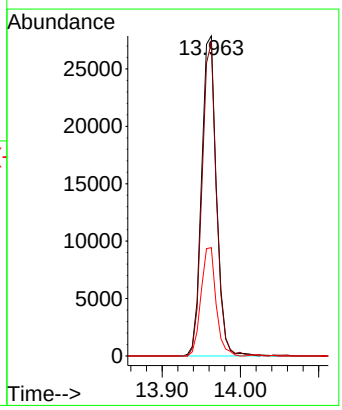




#96
1,2,3-Trichlorobenzene
Concen: 19.378 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:180 Resp: 36757

Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.0	144.0
145	34.2	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044452.D
Acq On : 20 Dec 2024 15:09
Operator : JC/MD
Sample : P5317-03RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Quant Time: Dec 20 22:26:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

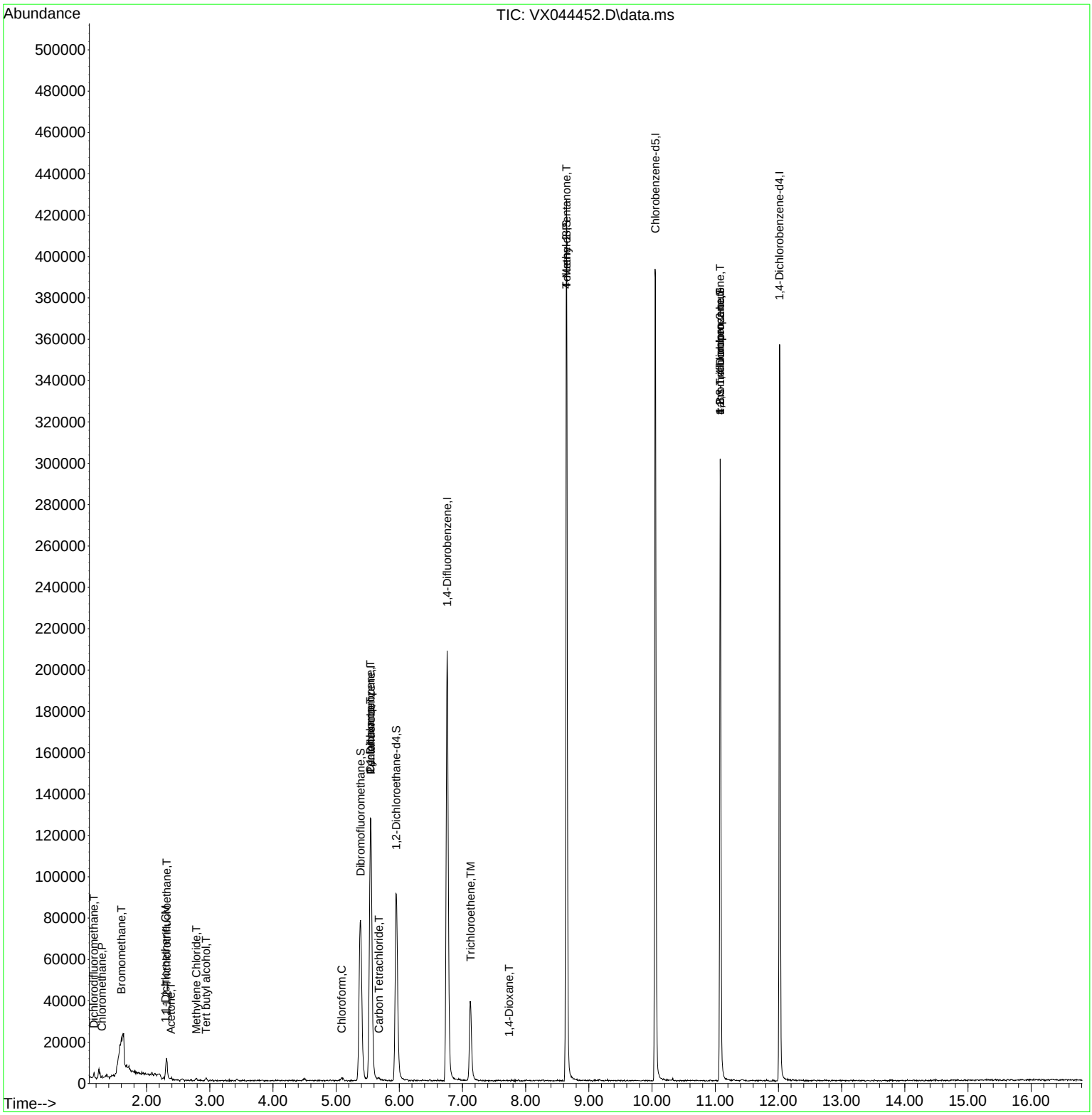
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	118996	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	210803	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	181303	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	72773	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	88475	42.406	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 84.820%			
35) Dibromofluoromethane	5.385	113	68921	47.206	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.420%			
50) Toluene-d8	8.647	98	248897	50.531	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.060%			
62) 4-Bromofluorobenzene	11.079	95	79060	45.935	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.860%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	1489	0.809	ug/l	94
3) Chloromethane	1.295	50	621	0.353	ug/l #	78
5) Bromomethane	1.599	94	506	0.389	ug/l #	42
9) 1,1,2-Trichlorotrifluo...	2.319	101	3044	2.096	ug/l	93
11) Tert butyl alcohol	2.941	59	357	1.214	ug/l #	71
12) 1,1-Dichloroethene	2.300	96	945	0.709	ug/l #	93
16) Acetone	2.386	43	833	0.979	ug/l	92
20) Methylene Chloride	2.788	84	575	0.360	ug/l #	64
30) Chloroform	5.087	83	1103	0.352	ug/l	86
31) Cyclohexane	5.544	56	3071	1.364	ug/l #	40
36) 1,1-Dichloropropene	5.544	75	10064	5.333	ug/l #	50
38) Carbon Tetrachloride	5.678	117	710	0.349	ug/l #	88
44) Trichloroethene	7.129	130	15656	10.957	ug/l	98
49) 1,4-Dioxane	7.738	88	20	0.682	ug/l #	32
51) 4-Methyl-2-Pentanone	8.647	43	1346	0.574	ug/l #	1
76) 1,2,3-Trichloropropane	11.079	75	41249	25.386	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	41249	70.207	ug/l #	4

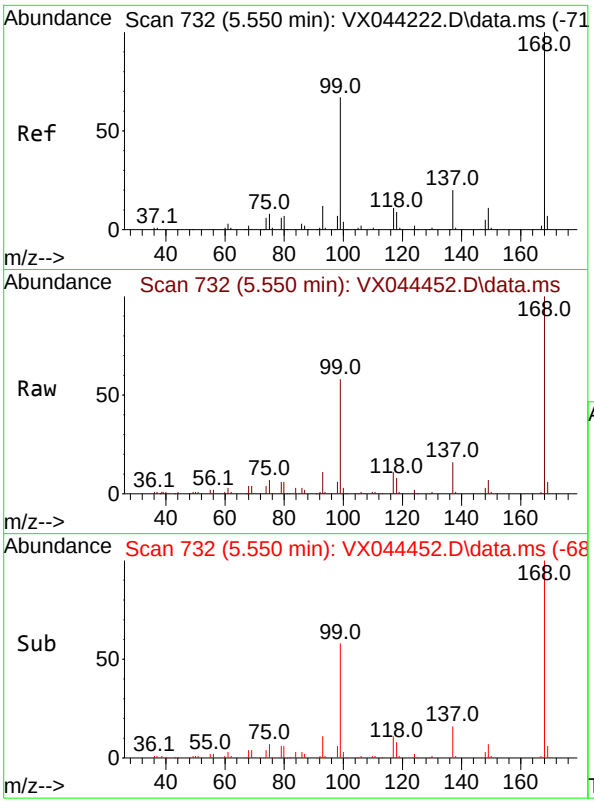
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044452.D
Acq On : 20 Dec 2024 15:09
Operator : JC/MD
Sample : P5317-03RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Quant Time: Dec 20 22:26:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



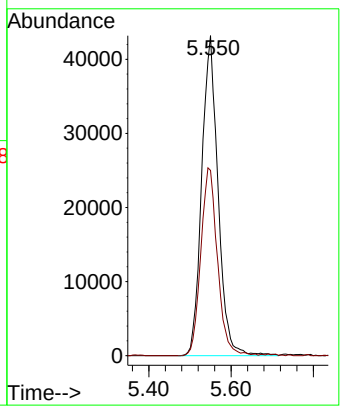


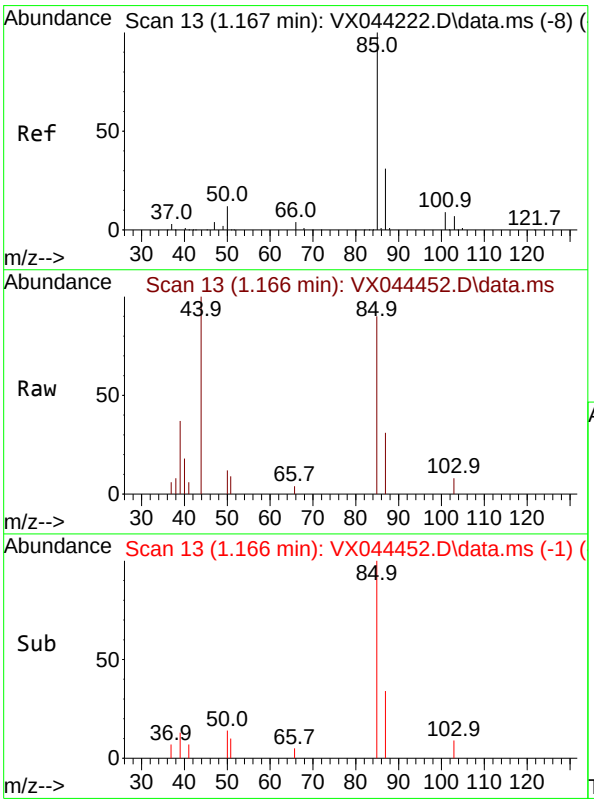
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Tgt Ion:168 Resp: 118996

Ion	Ratio	Lower	Upper
168	100		
99	57.9	53.4	80.0

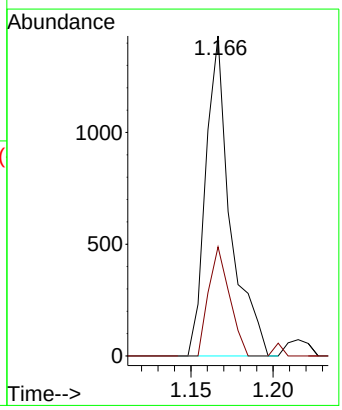


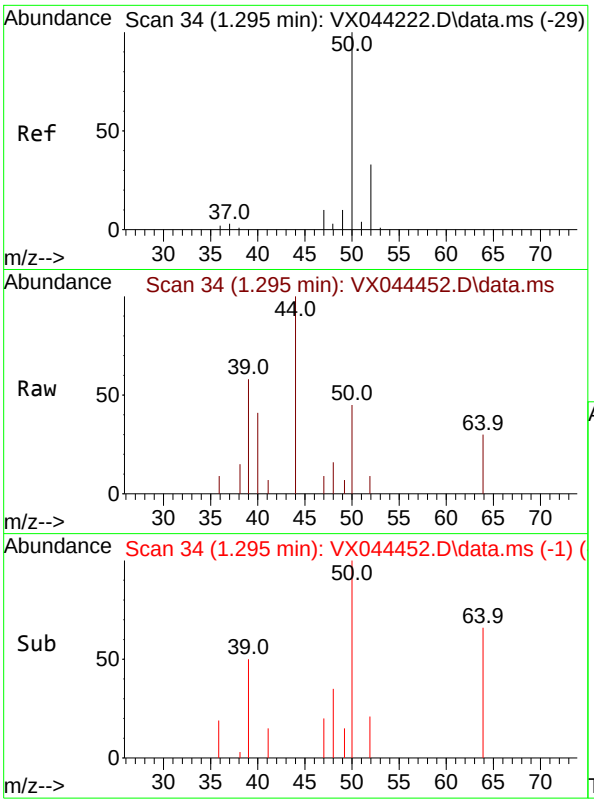


#2
Dichlorodifluoromethane
Concen: 0.809 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 85 Resp: 1489

Ion	Ratio	Lower	Upper
85	100		
87	34.1	15.4	46.4



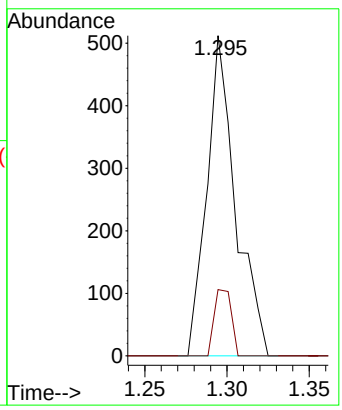


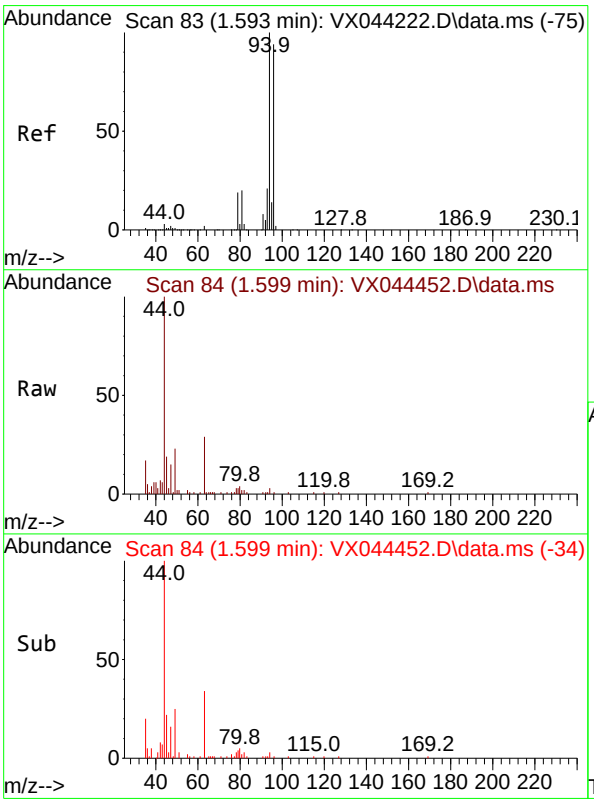
#3
Chloromethane
Concen: 0.353 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Tgt Ion: 50 Resp: 621

Ion	Ratio	Lower	Upper
50	100		
52	20.7	26.5	39.7#

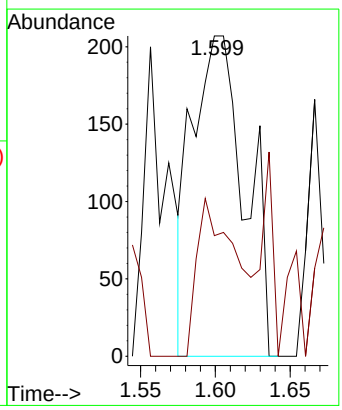


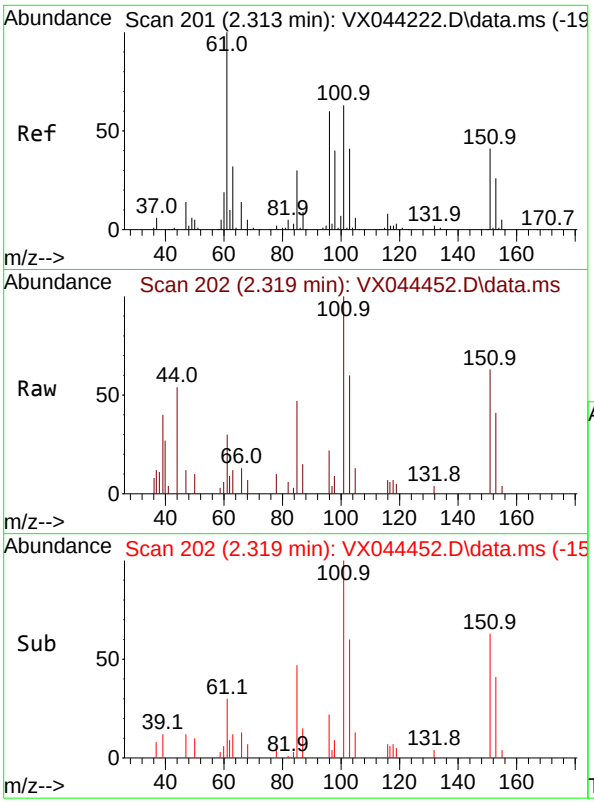


#5
Bromomethane
Concen: 0.389 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 94 Resp: 506

Ion	Ratio	Lower	Upper
94	100		
96	37.7	74.9	112.3#



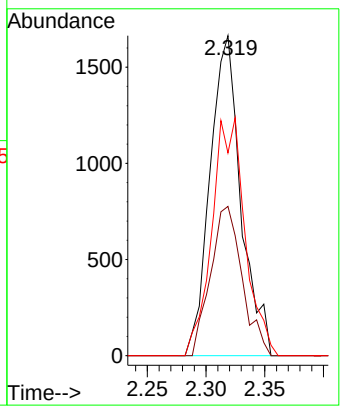


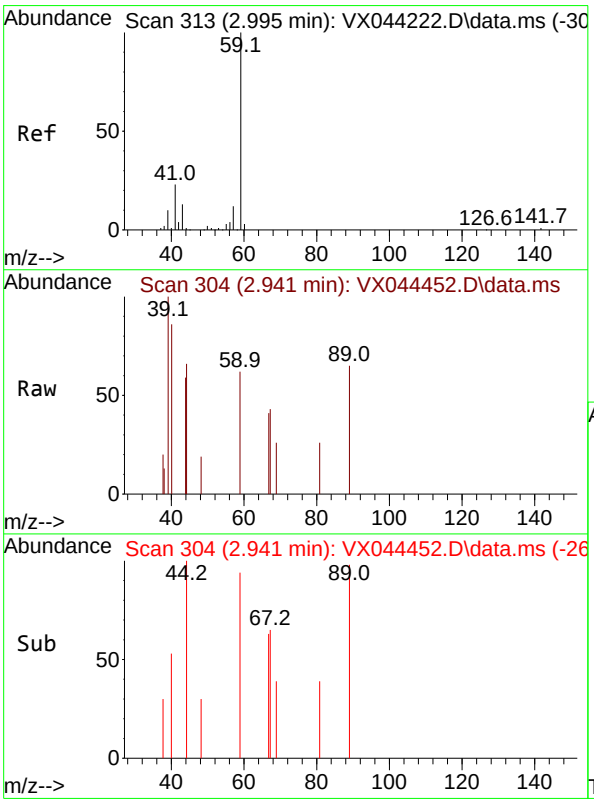
#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.096 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Tgt Ion:101 Resp: 3044

Ion	Ratio	Lower	Upper
101	100		
85	47.7	38.5	57.7
151	79.6	55.8	83.6

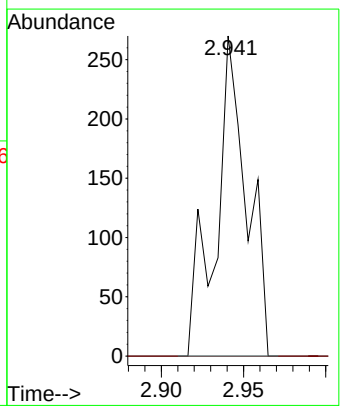


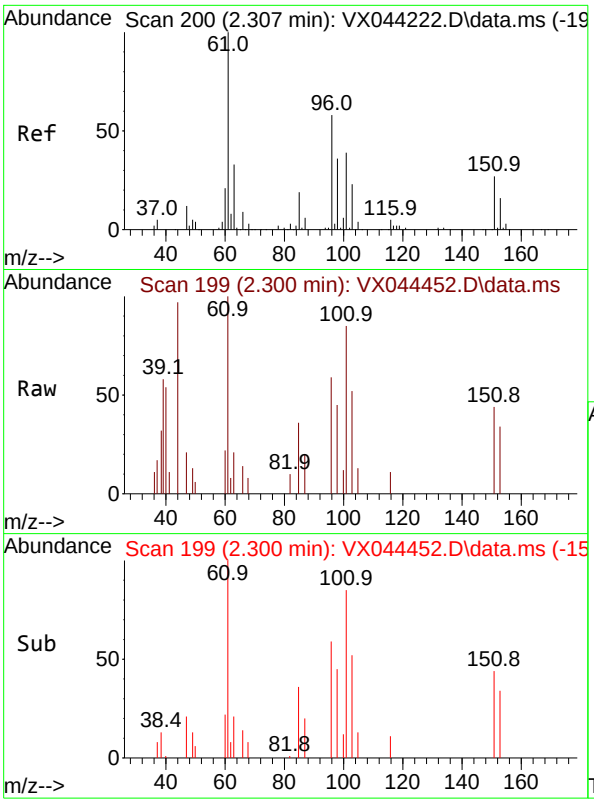


#11
Tert butyl alcohol
Concen: 1.214 ug/l
RT: 2.941 min Scan# 304
Delta R.T. -0.055 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 59 Resp: 357

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.8	13.2#



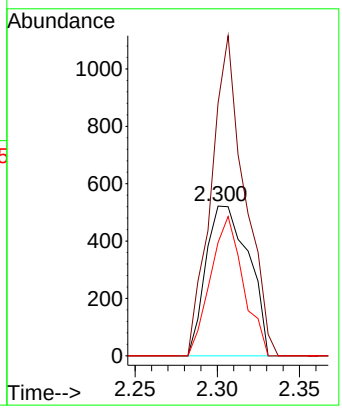


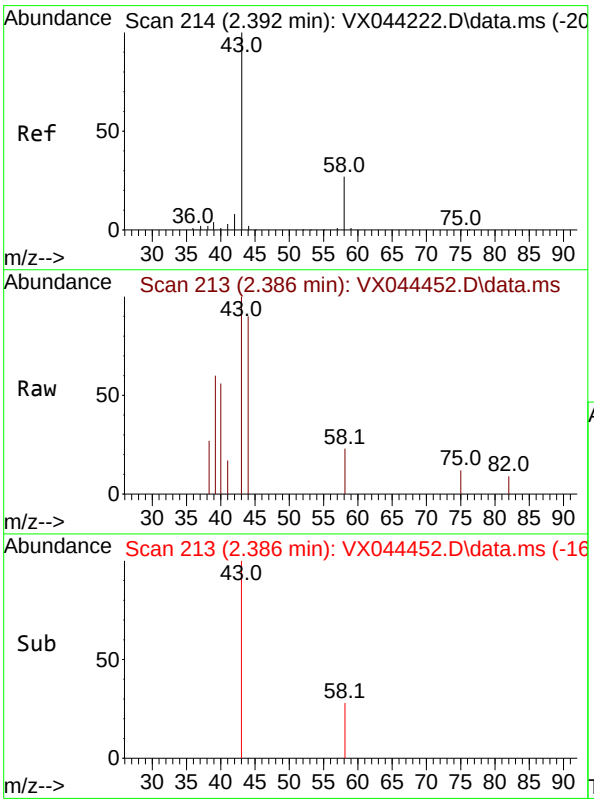
#12
1,1-Dichloroethene
Concen: 0.709 ug/l
RT: 2.300 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Tgt Ion: 96 Resp: 945

Ion	Ratio	Lower	Upper
96	100		
61	168.6	138.0	207.0
98	75.7	50.0	75.0#

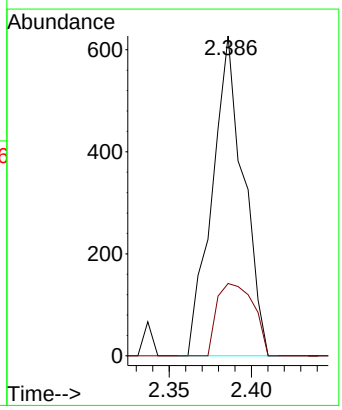


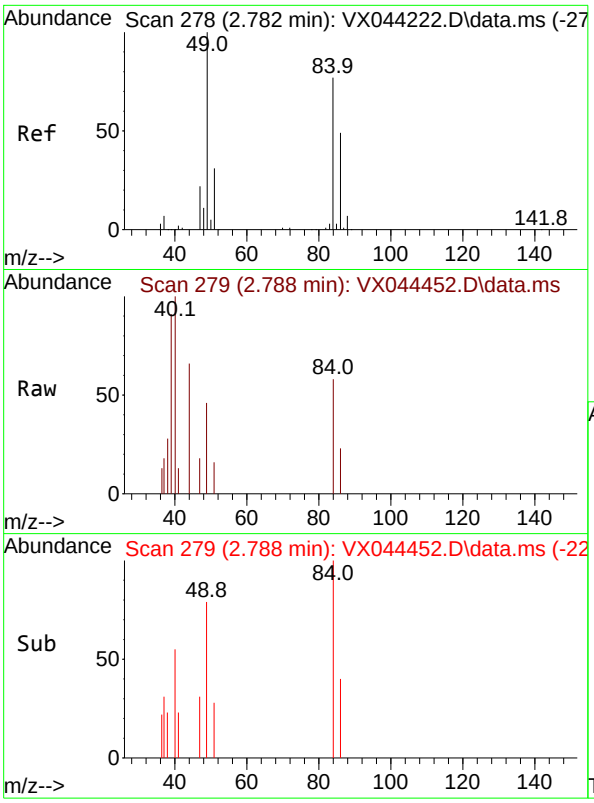


#16
Acetone
Concen: 0.979 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 43 Resp: 833

Ion	Ratio	Lower	Upper
43	100		
58	22.6	21.6	32.4



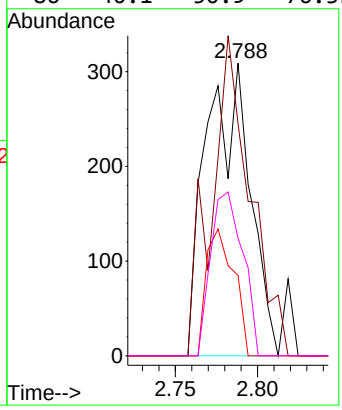


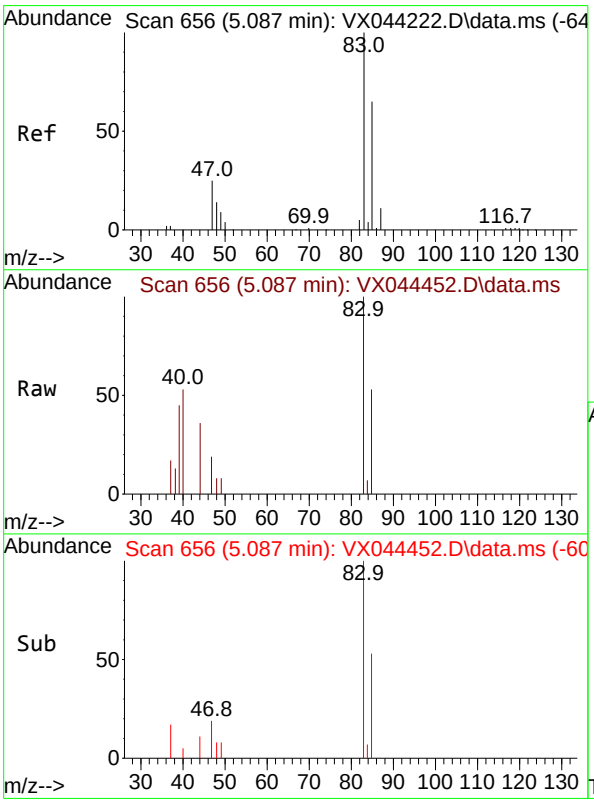
#20
Methylene Chloride
Concen: 0.360 ug/l
RT: 2.788 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Tgt Ion: 84 Resp: 575

Ion	Ratio	Lower	Upper
84	100		
49	79.3	104.2	156.4#
51	27.5	32.2	48.4#
86	40.1	50.9	76.3#

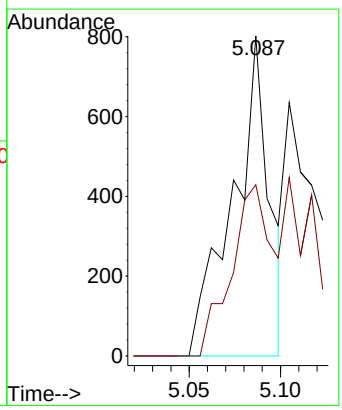


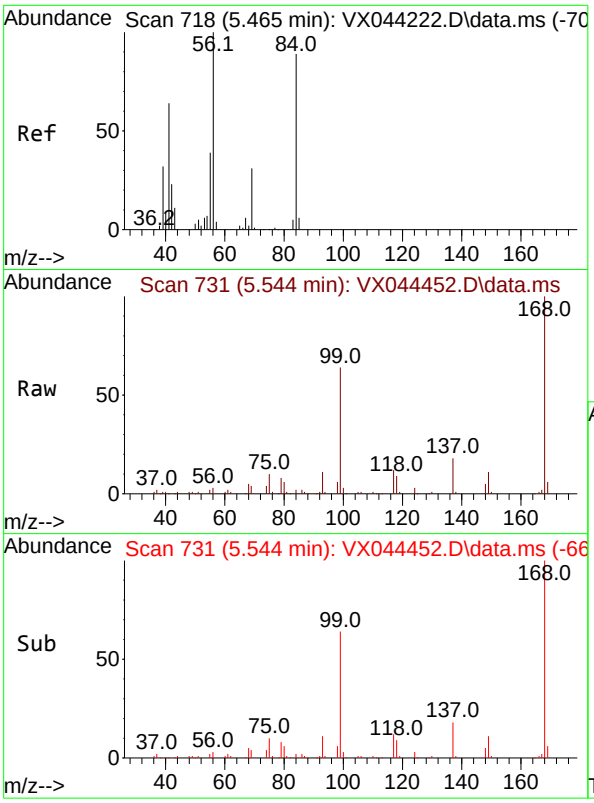


#30
Chloroform
Concen: 0.352 ug/l
RT: 5.087 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 83 Resp: 1103

Ion	Ratio	Lower	Upper
83	100		
85	53.5	51.6	77.4



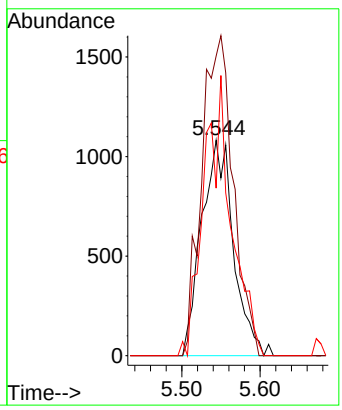


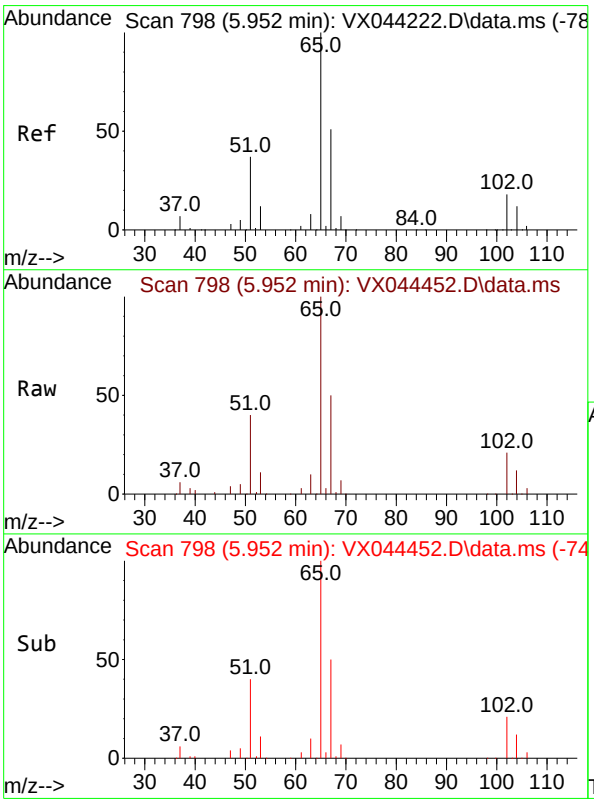
#31
Cyclohexane
Concen: 1.364 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.079 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Tgt Ion: 56 Resp: 3071

Ion	Ratio	Lower	Upper
56	100		
69	139.0	24.7	37.1#
84	77.7	71.0	106.6

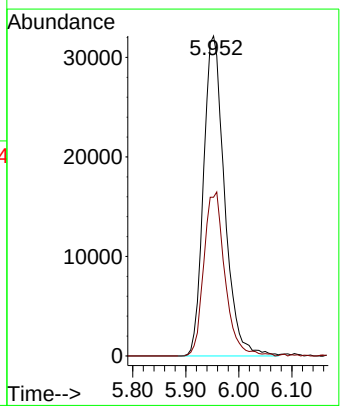


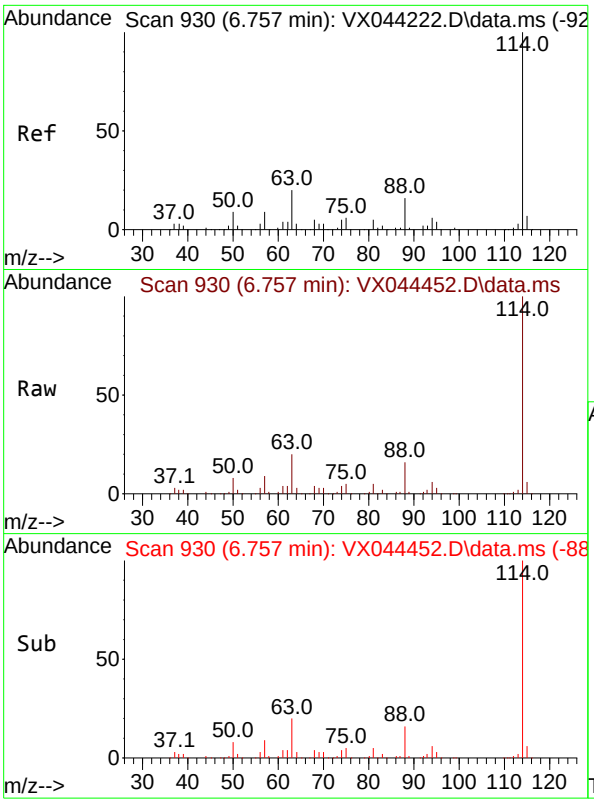


#33
1,2-Dichloroethane-d4
Concen: 42.406 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 65 Resp: 88475

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	101.6



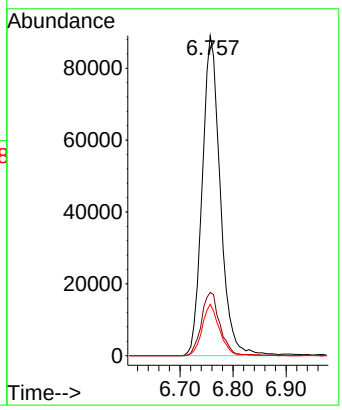


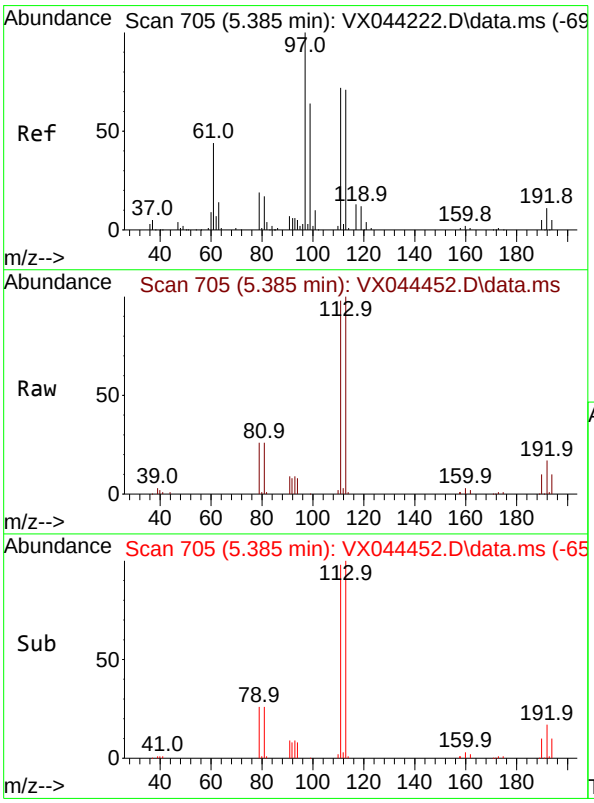
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Tgt Ion:114 Resp: 210803

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	40.6
88	16.0	0.0	31.8

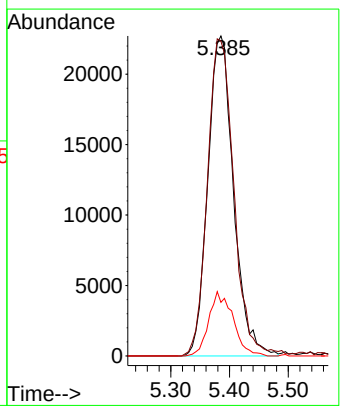


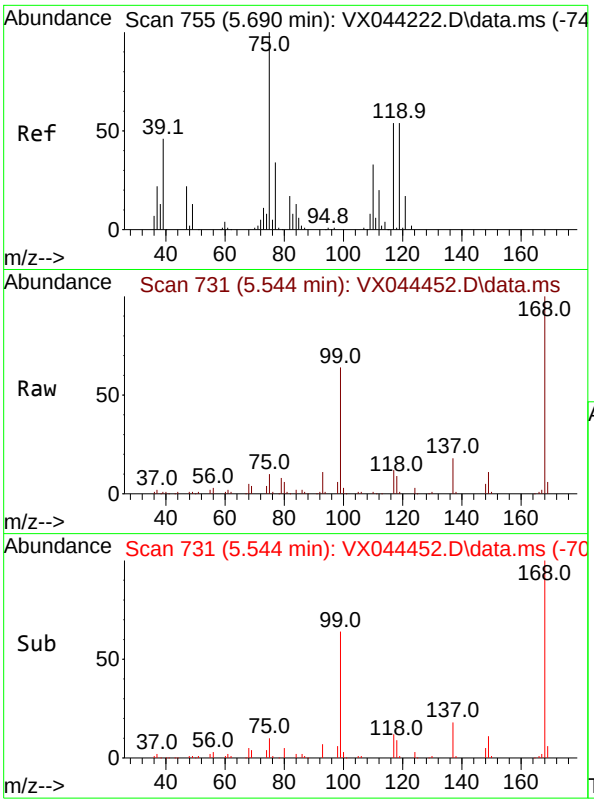


#35
Dibromofluoromethane
Concen: 47.206 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion:113 Resp: 68921

Ion	Ratio	Lower	Upper
113	100		
111	102.0	80.4	120.6
192	19.0	13.3	19.9



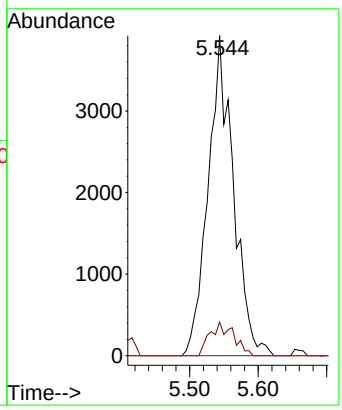


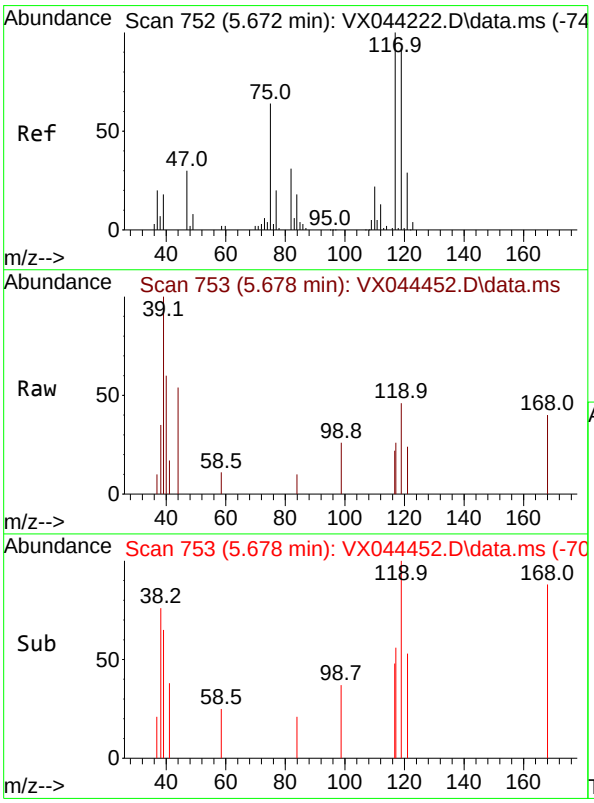
#36
1,1-Dichloropropene
Concen: 5.333 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.146 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Tgt Ion: 75 Resp: 10064

Ion	Ratio	Lower	Upper
75	100		
110	9.8	17.3	51.7#
77	0.0	25.4	38.0#

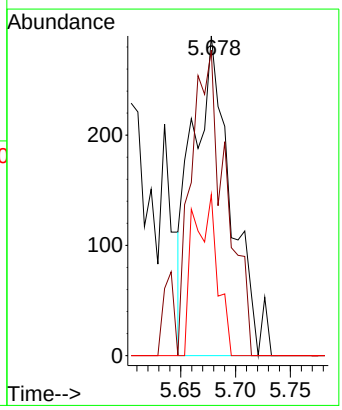


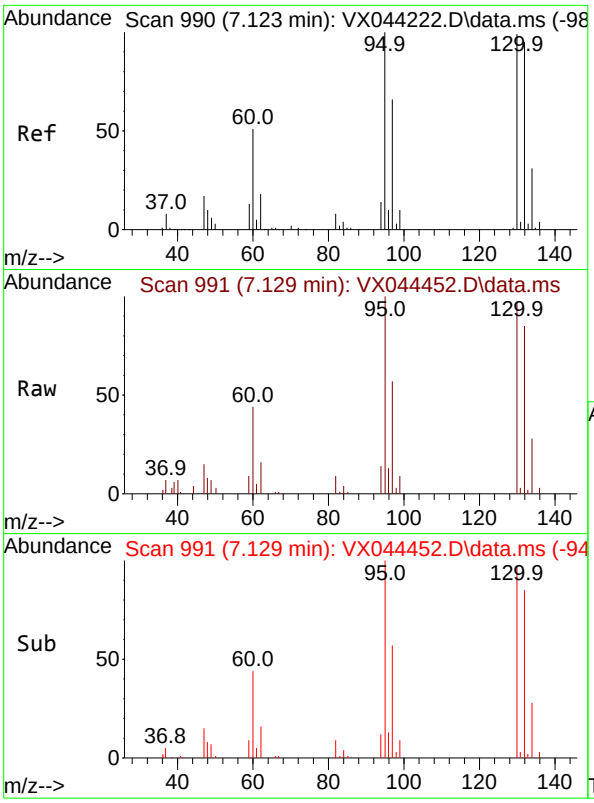


#38
Carbon Tetrachloride
Concen: 0.349 ug/l
RT: 5.678 min Scan# 753
Delta R.T. 0.006 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion:117 Resp: 710

Ion	Ratio	Lower	Upper
117	100		
119	95.5	74.2	111.4
121	50.3	23.0	34.6#



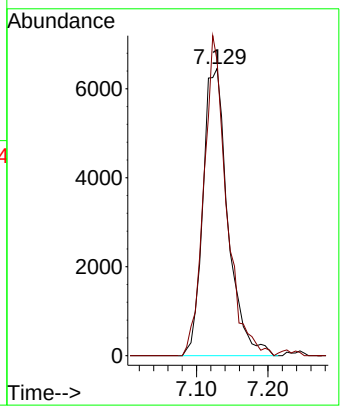


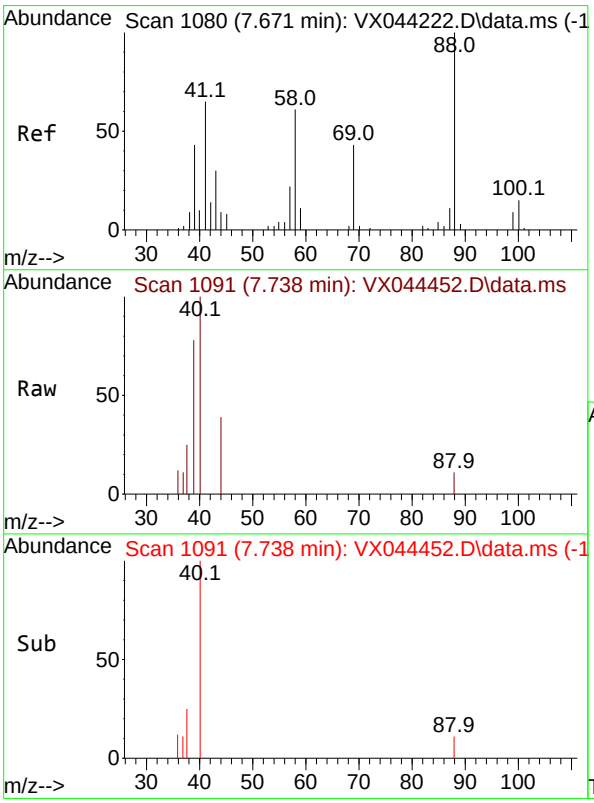
#44
Trichloroethene
Concen: 10.957 ug/l
RT: 7.129 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Tgt Ion:130 Resp: 15656

Ion	Ratio	Lower	Upper
130	100		
95	102.7	0.0	201.4

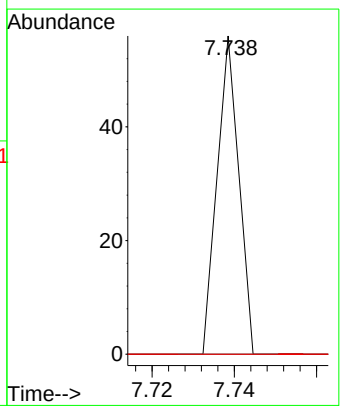


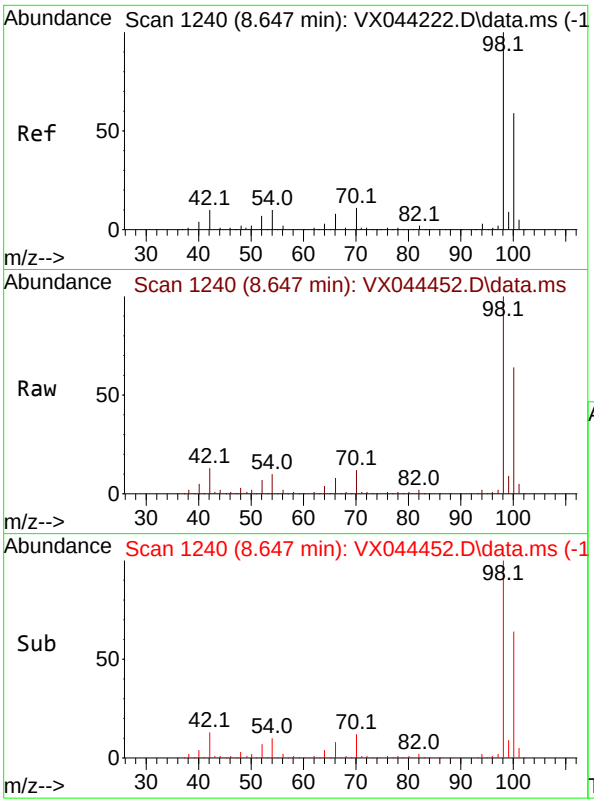


#49
1,4-Dioxane
Concen: 0.682 ug/l
RT: 7.738 min Scan# 1091
Delta R.T. 0.067 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 88 Resp: 20

Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.1	40.7#
58	0.0	41.0	61.4#



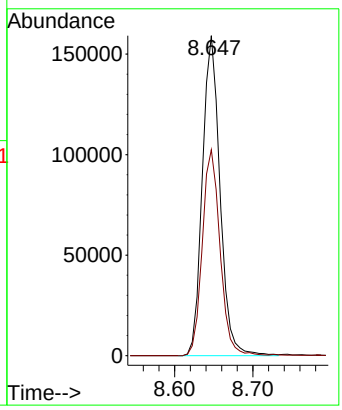


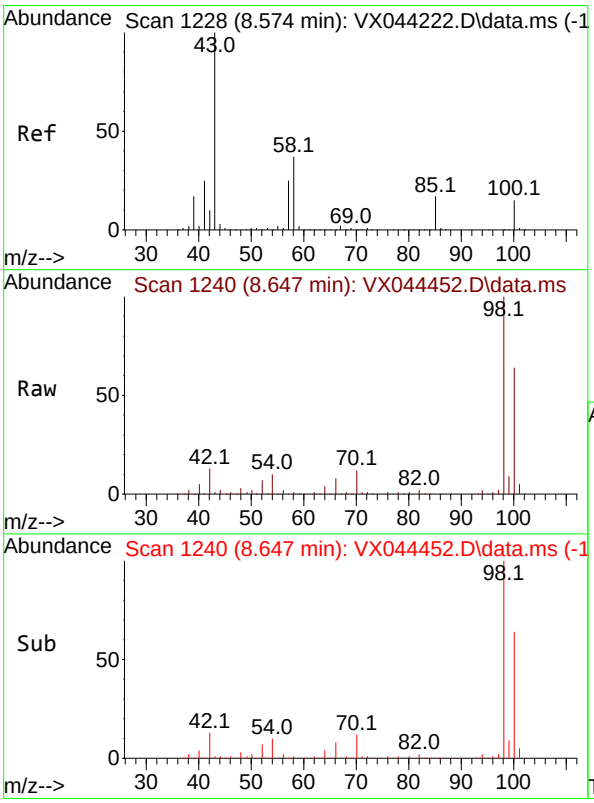
#50
Toluene-d8
Concen: 50.531 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Tgt Ion: 98 Resp: 248897

Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.5	77.3

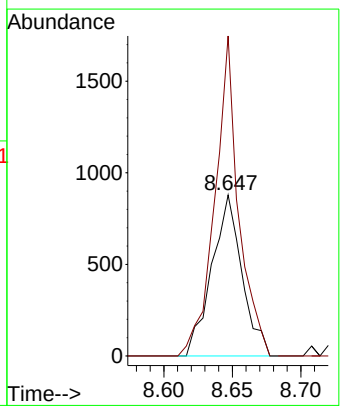


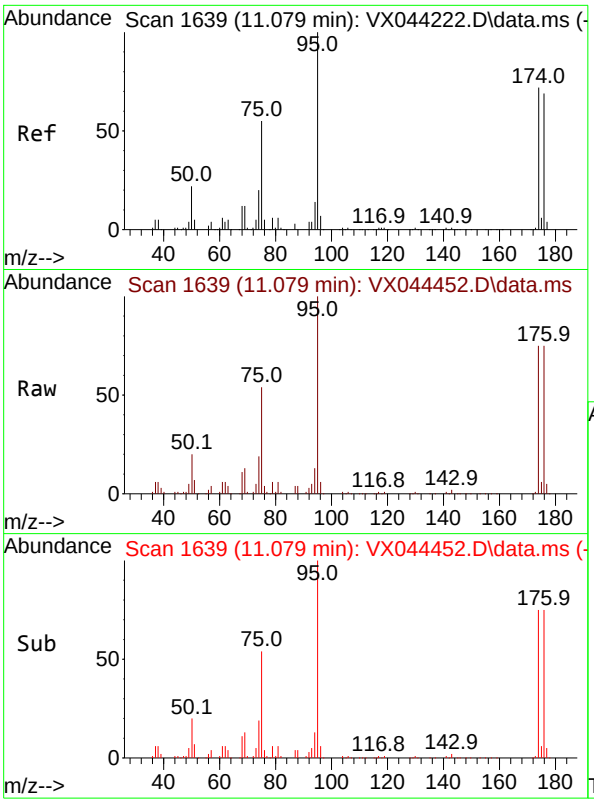


#51
4-Methyl-2-Pentanone
Concen: 0.574 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.073 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 43 Resp: 1346

Ion	Ratio	Lower	Upper
43	100		
58	157.2	29.4	44.0#



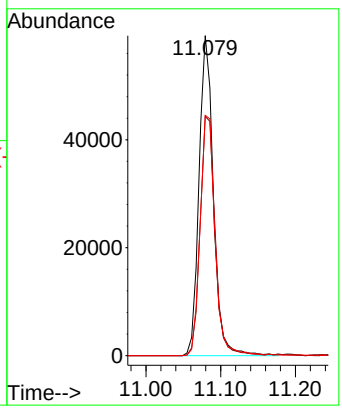


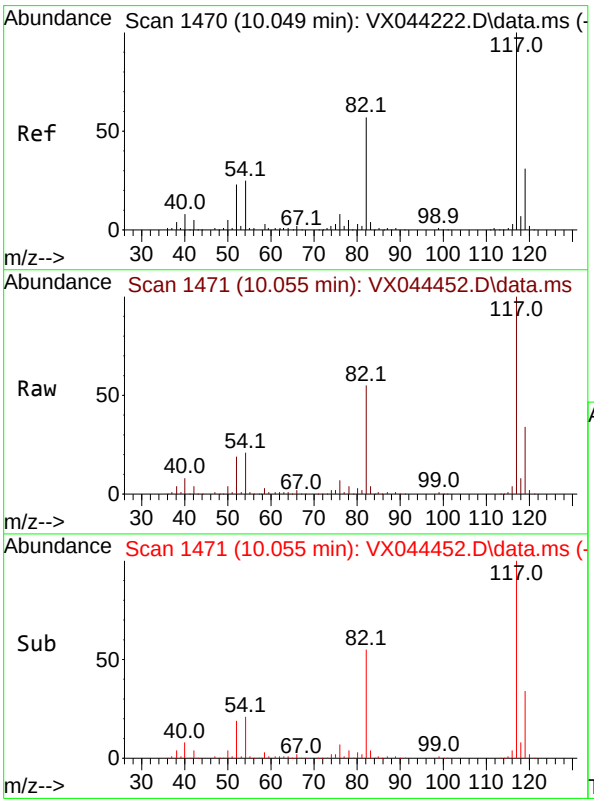
#62
4-Bromofluorobenzene
Concen: 45.935 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Tgt Ion: 95 Resp: 79060

Ion	Ratio	Lower	Upper
95	100		
174	78.1	0.0	145.8
176	77.8	0.0	137.8

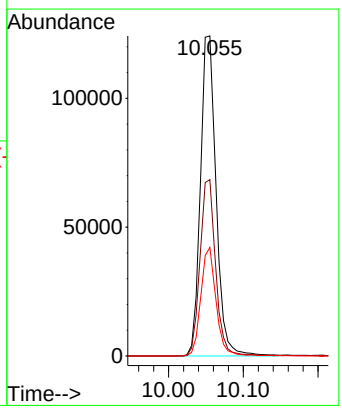


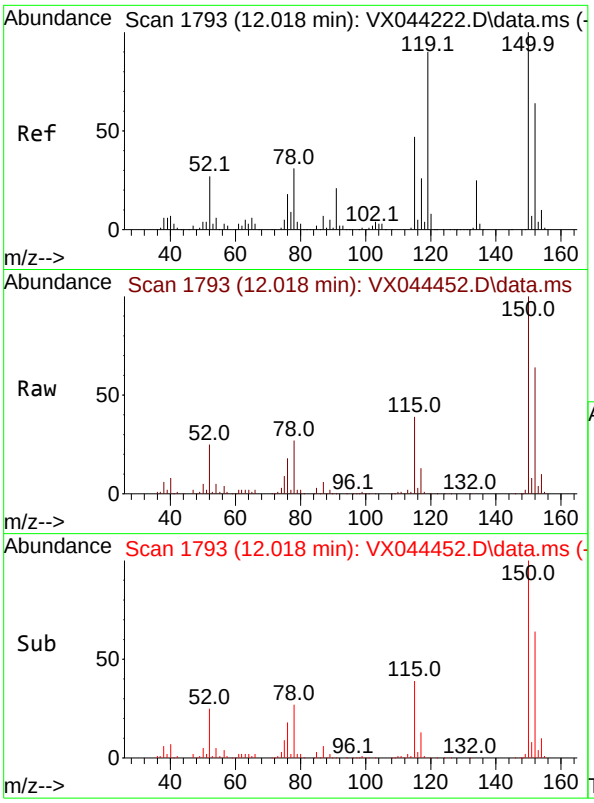


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion:117 Resp: 181303

Ion	Ratio	Lower	Upper
117	100		
82	55.1	45.8	68.8
119	33.9	25.0	37.4



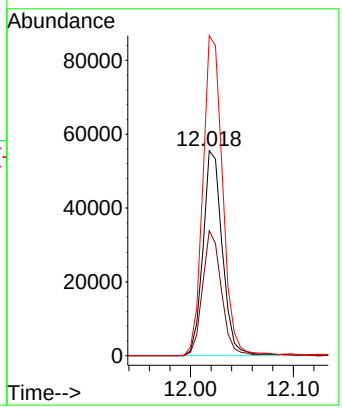


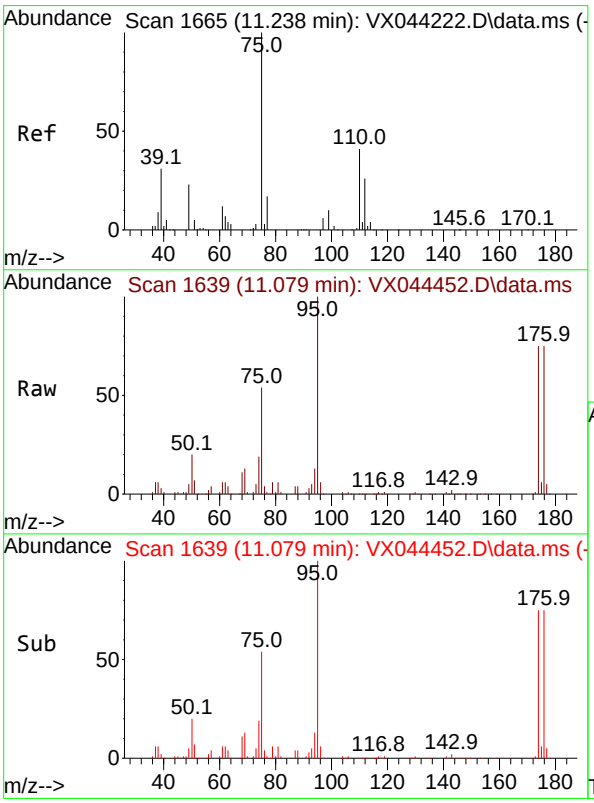
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Tgt Ion:152 Resp: 72773

Ion	Ratio	Lower	Upper
152	100		
115	59.2	44.5	133.3
150	159.3	0.0	353.8

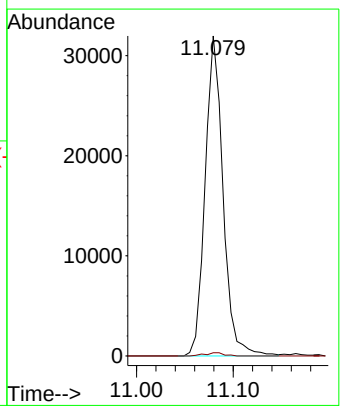


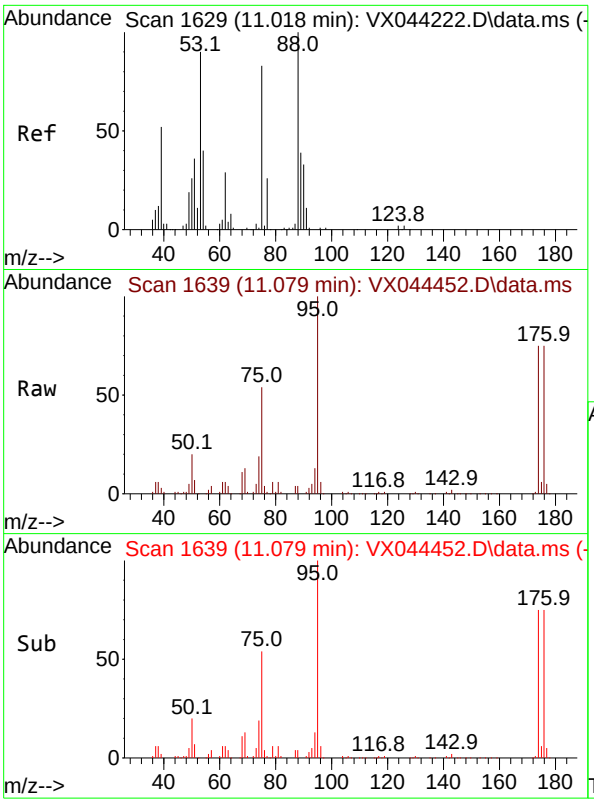


#76
1,2,3-Trichloropropane
Concen: 25.386 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Tgt Ion: 75 Resp: 41249

Ion	Ratio	Lower	Upper
75	100		
77	1.1	20.9	62.7#



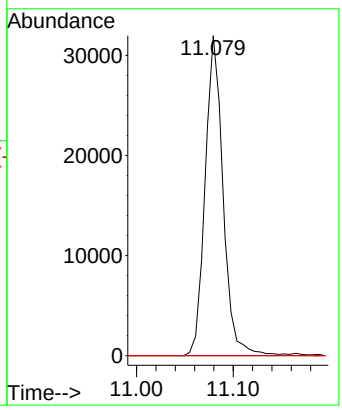


#81
trans-1,4-Dichloro-2-butene
Concen: 70.207 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX044452.D
Acq: 20 Dec 2024 15:09

Instrument :
MSVOA_X
ClientSampleId :
TT191D1-20241216

Tgt Ion: 75 Resp: 41249

Ion	Ratio	Lower	Upper
75	100		
53	0.0	93.6	140.4#
89	0.0	37.3	55.9#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	140284	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	239068	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	206477	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	97831	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	109103	44.357	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 88.720%			
35) Dibromofluoromethane	5.379	113	86675	52.347	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.700%			
50) Toluene-d8	8.647	98	290046	51.923	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.840%			
62) 4-Bromofluorobenzene	11.079	95	99862	51.161	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	104302	48.084	ug/l	95
3) Chloromethane	1.294	50	97601	47.052	ug/l	99
4) Vinyl Chloride	1.374	62	102407	47.388	ug/l	96
5) Bromomethane	1.593	94	69880	45.581	ug/l	98
6) Chloroethane	1.666	64	71114	52.848	ug/l	97
7) Trichlorofluoromethane	1.868	101	168610	39.855	ug/l	98
8) Diethyl Ether	2.136	74	61643	42.687	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.313	101	82704	48.311	ug/l	96
10) Methyl Iodide	2.441	142	113213	50.177	ug/l	98
11) Tert butyl alcohol	2.989	59	71333	205.778	ug/l	100
12) 1,1-Dichloroethene	2.306	96	78622	50.001	ug/l	95
13) Acrolein	2.239	56	111786	222.774	ug/l	98
14) Allyl chloride	2.654	41	124514	47.541	ug/l	97
15) Acrylonitrile	3.062	53	217189	226.182	ug/l	98
16) Acetone	2.386	43	189212	188.692	ug/l	95
17) Carbon Disulfide	2.502	76	152826	51.130	ug/l	100
18) Methyl Acetate	2.709	43	120686	46.678	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	276668	45.089	ug/l	99
20) Methylene Chloride	2.782	84	89276	47.401	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	81078	48.517	ug/l	99
22) Diisopropyl ether	3.764	45	265503	45.018	ug/l	98
23) Vinyl Acetate	3.721	43	1167584	243.510	ug/l	98
24) 1,1-Dichloroethane	3.605	63	157858	48.018	ug/l	99
25) 2-Butanone	4.562	43	303982	213.237	ug/l	98
26) 2,2-Dichloropropane	4.471	77	116211	43.513	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	100836	47.511	ug/l	95
28) Bromochloromethane	4.891	49	71526	44.369	ug/l	95
29) Tetrahydrofuran	5.007	42	194494	212.557	ug/l	99
30) Chloroform	5.093	83	166909	45.189	ug/l	99
31) Cyclohexane	5.464	56	122203	46.033	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	144394	47.095	ug/l	99
36) 1,1-Dichloropropene	5.684	75	104911	49.017	ug/l	97
37) Ethyl Acetate	4.721	43	127468	48.180	ug/l	100
38) Carbon Tetrachloride	5.666	117	118357	51.365	ug/l	99
39) Methylcyclohexane	7.373	83	131438	51.370	ug/l	96
40) Benzene	6.031	78	333117	51.262	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	66592	47.401	ug/l		98
42) 1,2-Dichloroethane	6.080	62	127634	47.680	ug/l		98
43) Isopropyl Acetate	6.342	43	198680	48.047	ug/l		98
44) Trichloroethene	7.117	130	86021	53.083	ug/l		93
45) 1,2-Dichloropropane	7.428	63	82383	49.622	ug/l		96
46) Dibromomethane	7.574	93	65924	51.184	ug/l		94
47) Bromodichloromethane	7.818	83	117278	52.723	ug/l		100
48) Methyl methacrylate	7.690	41	94575	47.115	ug/l		96
49) 1,4-Dioxane	7.659	88	33398	1003.530	ug/l		93
51) 4-Methyl-2-Pentanone	8.574	43	625919	235.413	ug/l		99
52) Toluene	8.714	92	204328	50.071	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	115268	48.388	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	127004	52.437	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	82378	50.814	ug/l		96
56) Ethyl methacrylate	9.116	69	131845	51.516	ug/l		95
57) 1,3-Dichloropropane	9.305	76	140522	49.799	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	314516	243.652	ug/l		98
59) 2-Hexanone	9.433	43	454909	236.376	ug/l		99
60) Dibromochloromethane	9.519	129	86219	50.206	ug/l		99
61) 1,2-Dibromoethane	9.604	107	87547	53.053	ug/l		98
64) Tetrachloroethene	9.269	164	70888	51.727	ug/l		97
65) Chlorobenzene	10.079	112	225888	51.056	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	79060	55.601	ug/l		99
67) Ethyl Benzene	10.189	91	385756	50.462	ug/l		96
68) m/p-Xylenes	10.299	106	294612	105.028	ug/l		95
69) o-Xylene	10.640	106	146149	51.494	ug/l		93
70) Styrene	10.653	104	240058	52.761	ug/l		96
71) Bromoform	10.799	173	51823	51.900	ug/l	#	99
73) Isopropylbenzene	10.957	105	374548	50.011	ug/l		100
74) N-amyl acetate	10.842	43	168135	48.576	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	125030	48.065	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	131971	60.417	ug/l		84
77) Bromobenzene	11.195	156	94262	51.903	ug/l		94
78) n-propylbenzene	11.305	91	417465	50.432	ug/l		98
79) 2-Chlorotoluene	11.360	91	253139	47.285	ug/l		96
80) 1,3,5-Trimethylbenzene	11.451	105	309218	49.787	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	32407	43.348	ug/l		95
82) 4-Chlorotoluene	11.451	91	289306	48.802	ug/l		98
83) tert-Butylbenzene	11.713	119	312731	50.950	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	308415	50.564	ug/l		98
85) sec-Butylbenzene	11.890	105	376639	50.546	ug/l		99
86) p-Isopropyltoluene	12.006	119	319422	51.504	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	163311	51.480	ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	161681	49.579	ug/l		98
89) n-Butylbenzene	12.329	91	261860	50.212	ug/l		99
90) Hexachloroethane	12.536	117	47928	52.940	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	167214	50.764	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	23250	46.042	ug/l		87
93) 1,2,4-Trichlorobenzene	13.585	180	97858	54.188	ug/l		98
94) Hexachlorobutadiene	13.725	225	40506	55.763	ug/l		98
95) Naphthalene	13.774	128	343151	48.680	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	101400	52.939	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

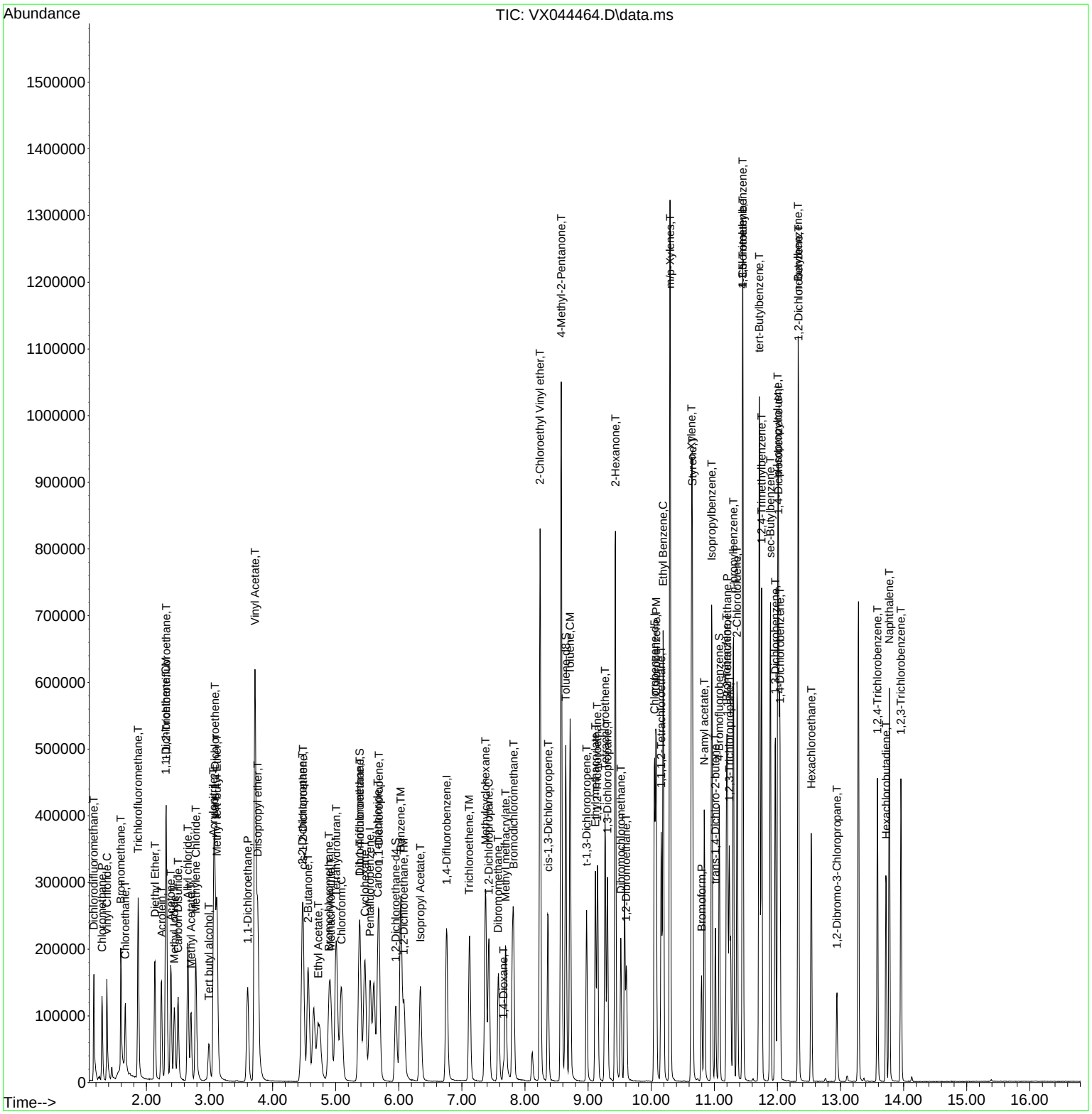
(#) = qualifier out of range (m) = manual integration (+) = signals summed

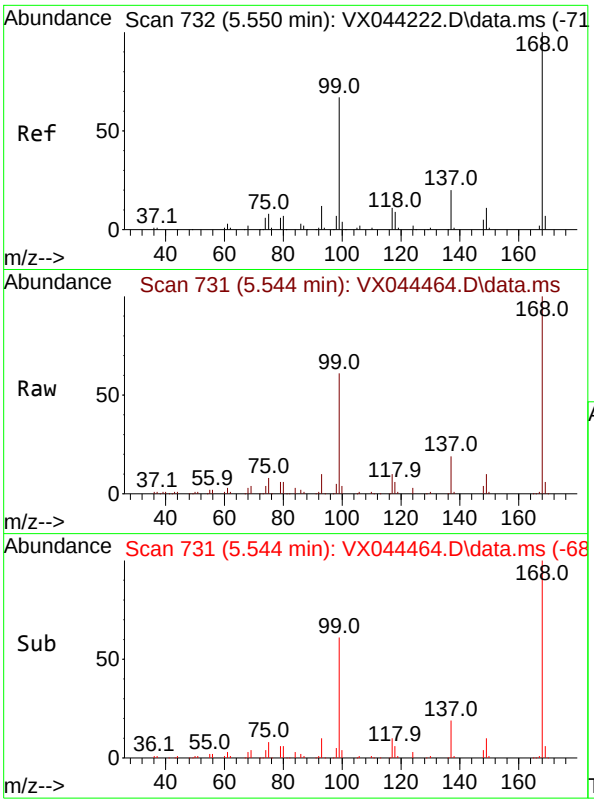
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



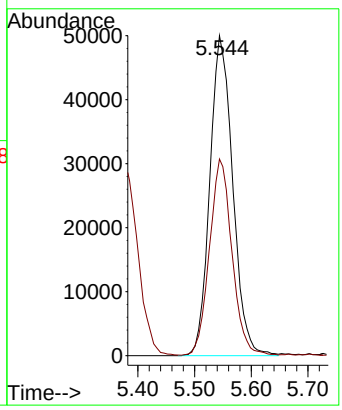


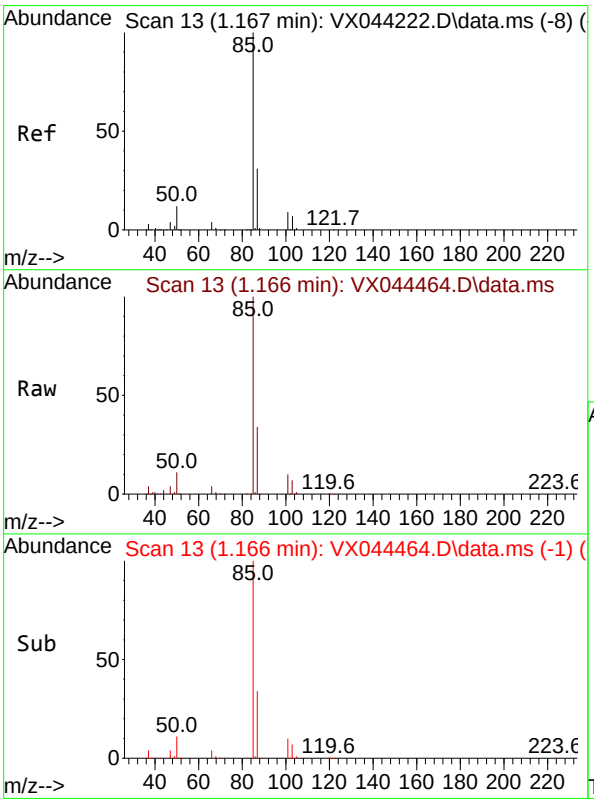
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 140284

Ion	Ratio	Lower	Upper
168	100		
99	61.2	53.4	80.0

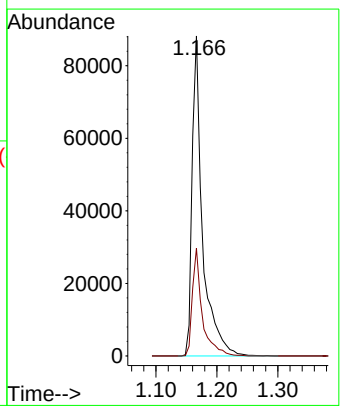


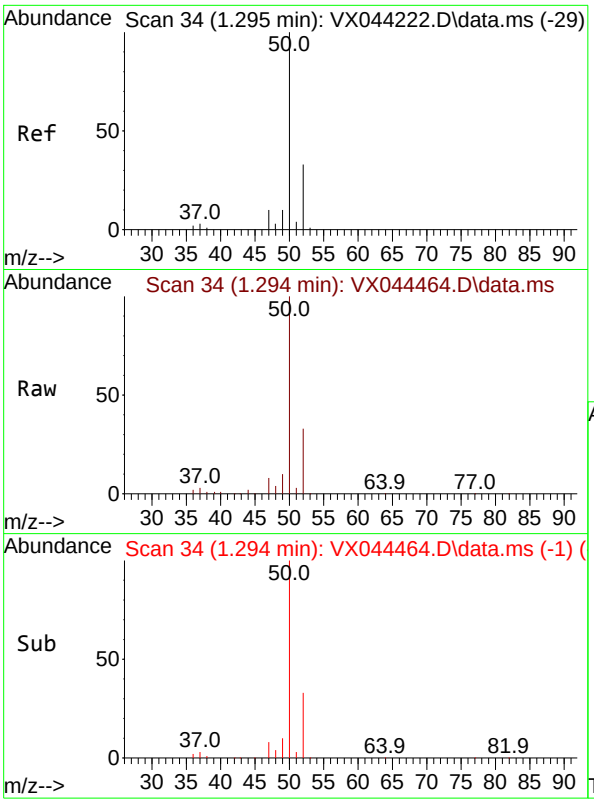


#2
Dichlorodifluoromethane
Concen: 48.084 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 85 Resp: 104302

Ion	Ratio	Lower	Upper
85	100		
87	33.7	15.4	46.4



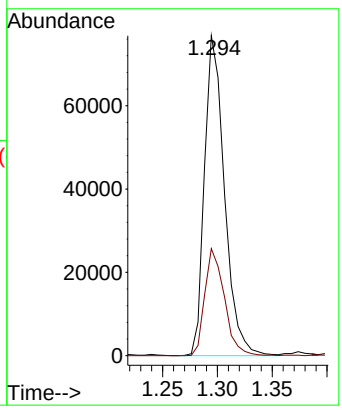


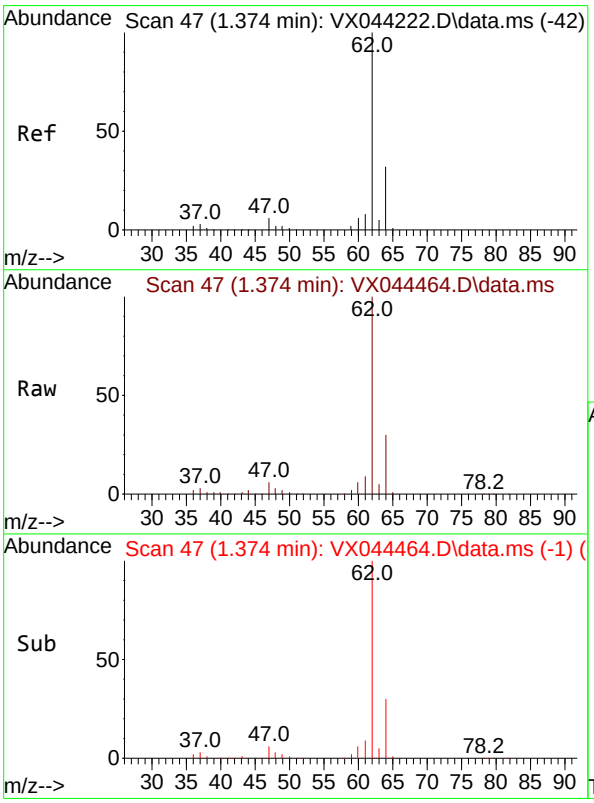
#3
Chloromethane
Concen: 47.052 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 97601

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.5	39.7

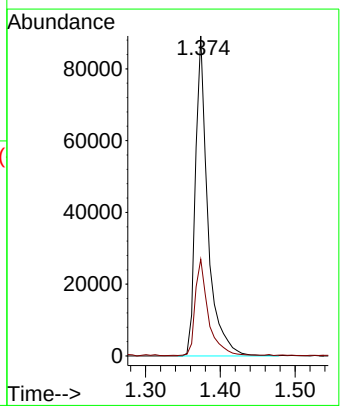


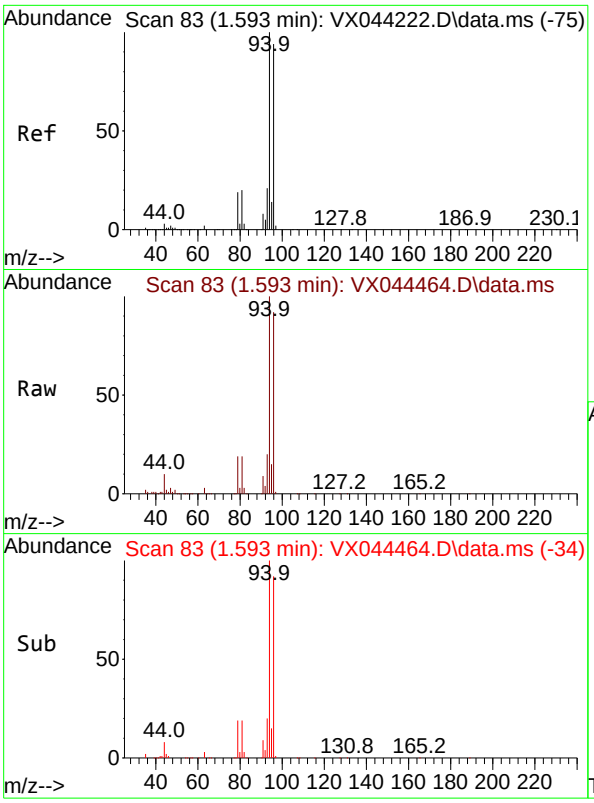


#4
Vinyl Chloride
Concen: 47.388 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 62 Resp: 102407

Ion	Ratio	Lower	Upper
62	100		
64	30.0	25.7	38.5



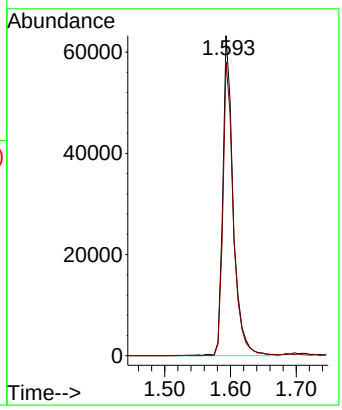


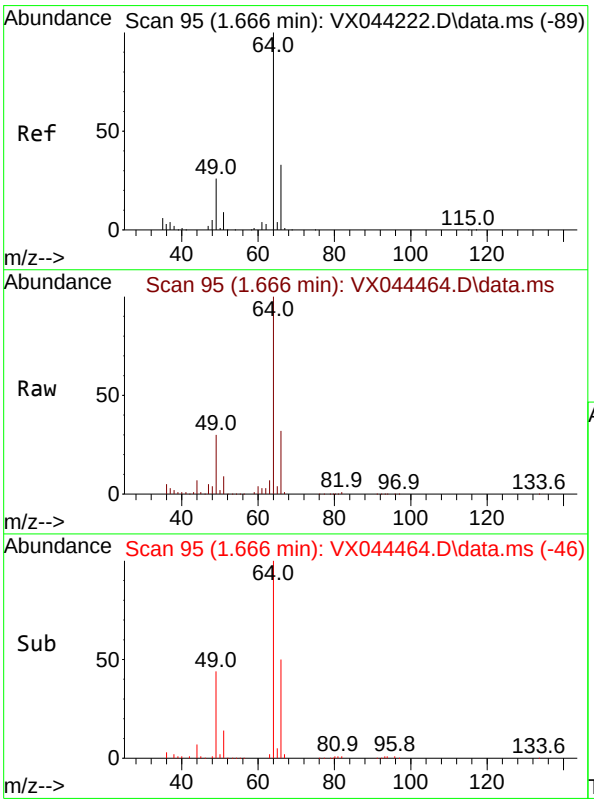
#5
Bromomethane
Concen: 45.581 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 69880

Ion	Ratio	Lower	Upper
94	100		
96	91.7	74.9	112.3

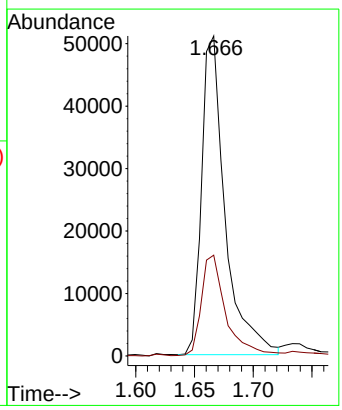


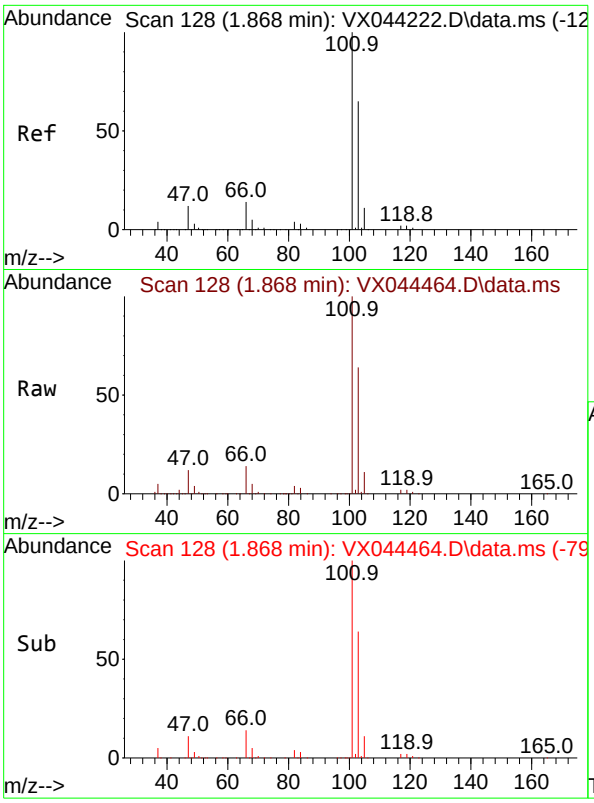


#6
Chloroethane
Concen: 52.848 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 64 Resp: 71114

Ion	Ratio	Lower	Upper
64	100		
66	31.5	26.6	39.8



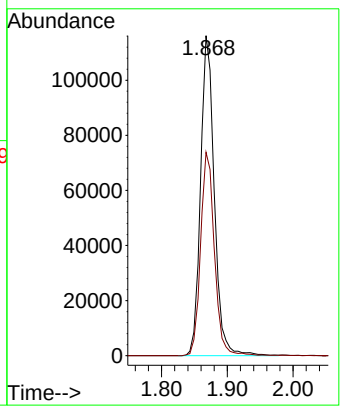


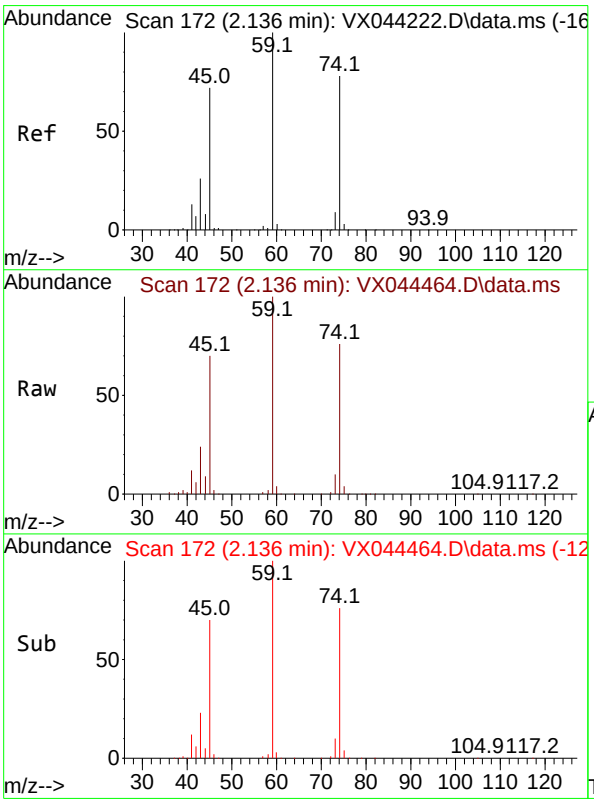
#7
Trichlorofluoromethane
Concen: 39.855 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 168610

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.8	77.8

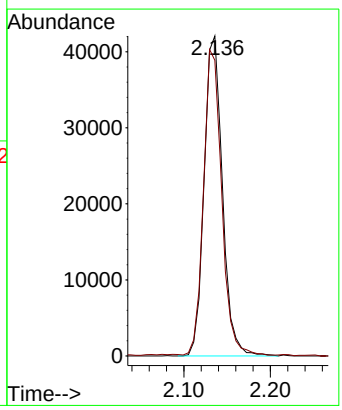


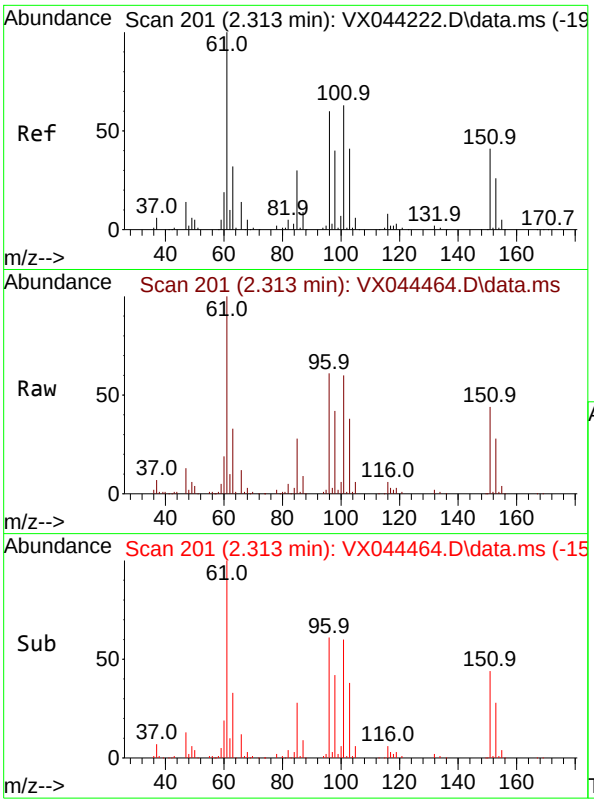


#8
Diethyl Ether
Concen: 42.687 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 74 Resp: 61643

Ion	Ratio	Lower	Upper
74	100		
45	94.9	48.4	145.0



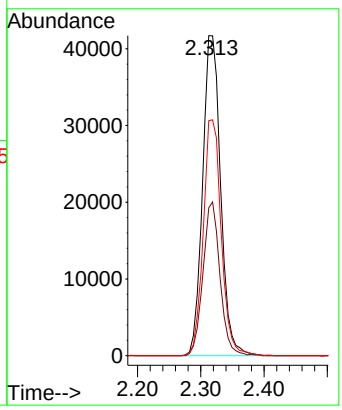


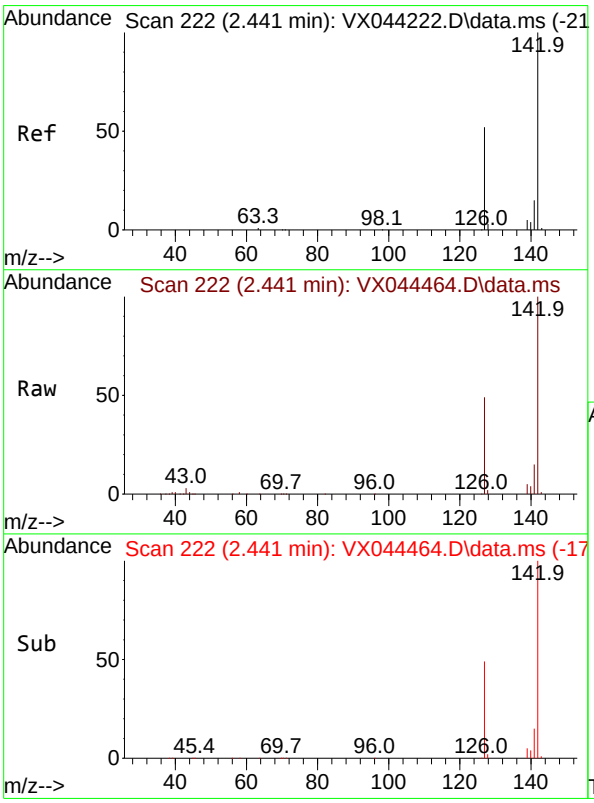
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.311 ug/l
RT: 2.313 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 82704

Ion	Ratio	Lower	Upper
101	100		
85	45.4	38.5	57.7
151	73.6	55.8	83.6

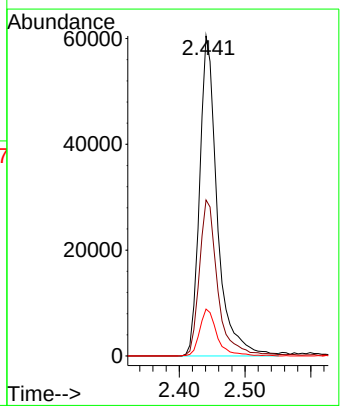


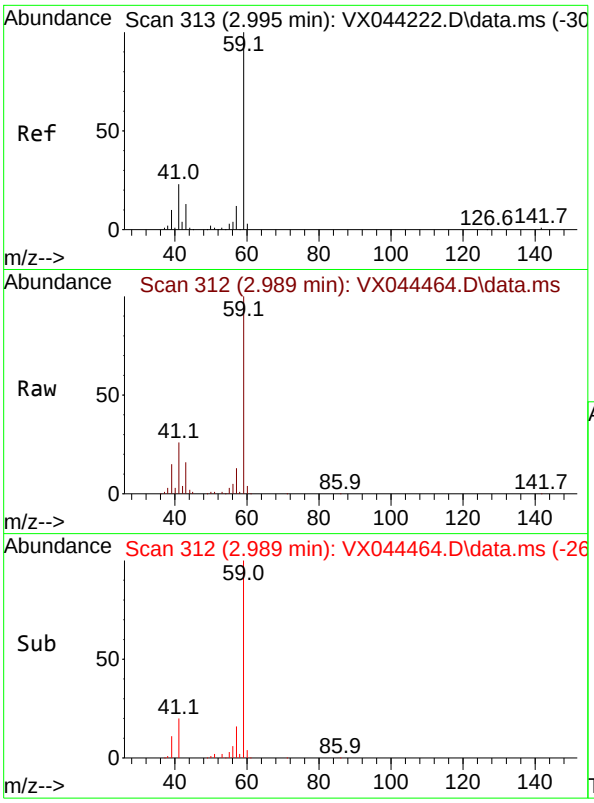


#10
Methyl Iodide
Concen: 50.177 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:142 Resp: 113213

Ion	Ratio	Lower	Upper
142	100		
127	50.5	41.8	62.8
141	14.5	11.5	17.3



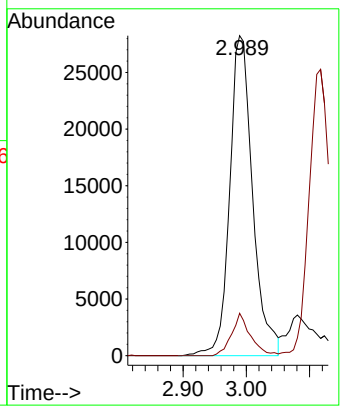


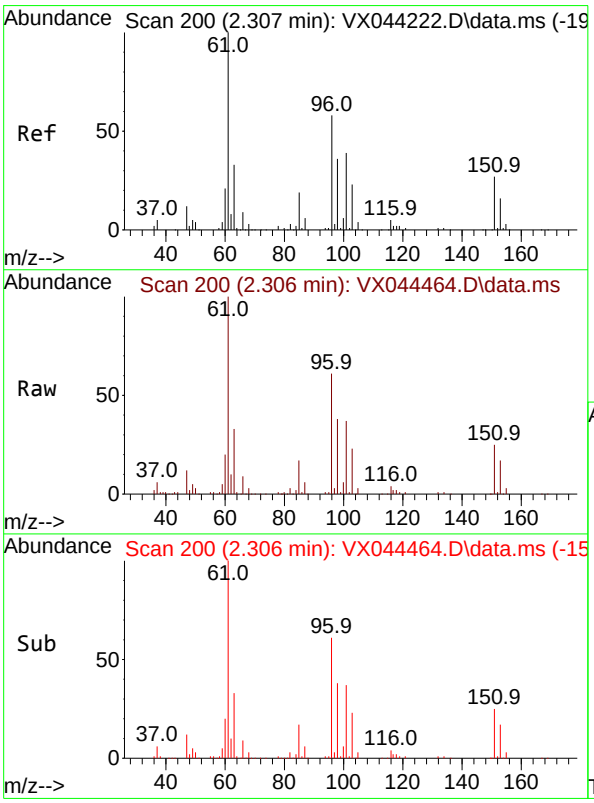
#11
Tert butyl alcohol
Concen: 205.778 ug/l
RT: 2.989 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 71333

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.8	13.2

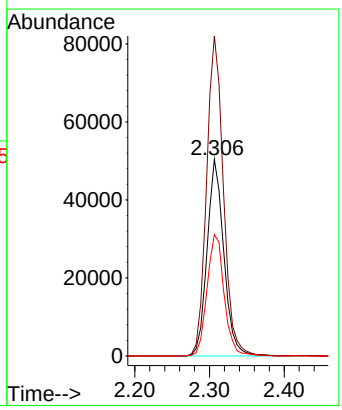


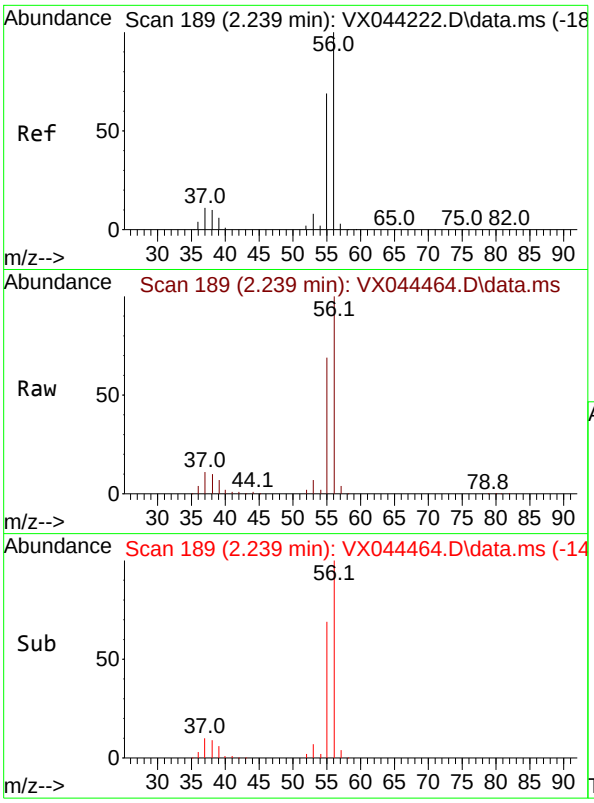


#12
1,1-Dichloroethene
Concen: 50.001 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 96 Resp: 78622

Ion	Ratio	Lower	Upper
96	100		
61	162.8	138.0	207.0
98	61.8	50.0	75.0



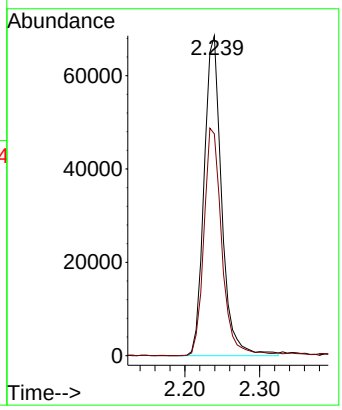


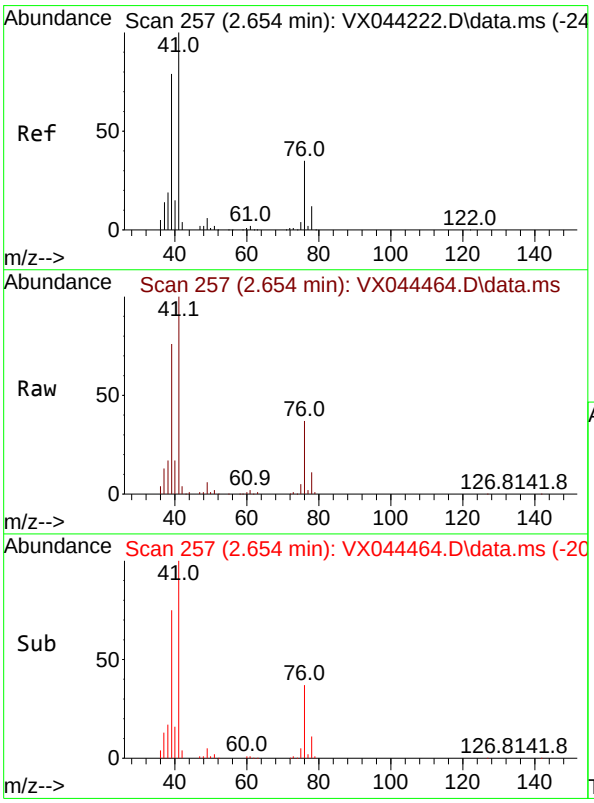
#13
Acrolein
Concen: 222.774 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 111786

Ion	Ratio	Lower	Upper
56	100		
55	72.3	56.6	84.8

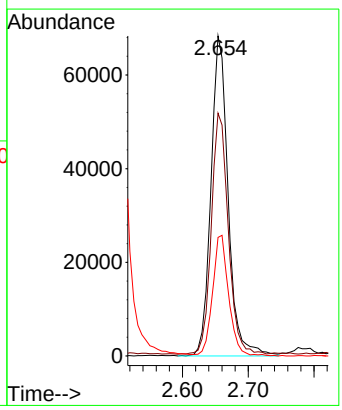


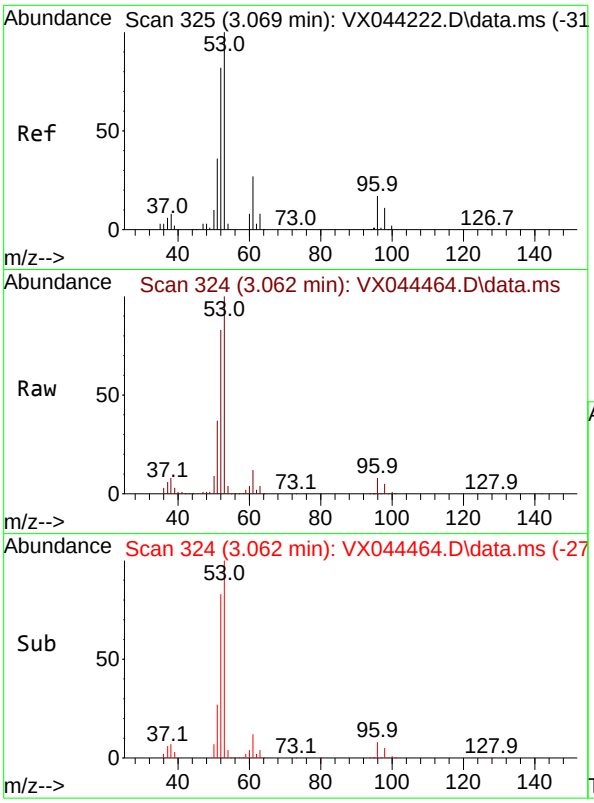


#14
Allyl chloride
Concen: 47.541 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 41 Resp: 124514

Ion	Ratio	Lower	Upper
41	100		
39	74.1	61.9	92.9
76	35.4	27.4	41.2



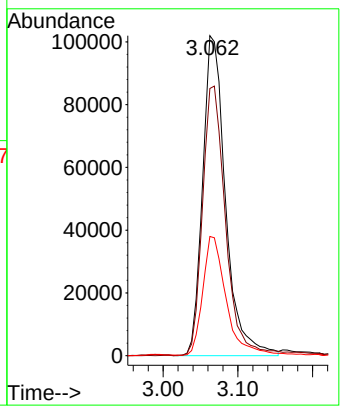


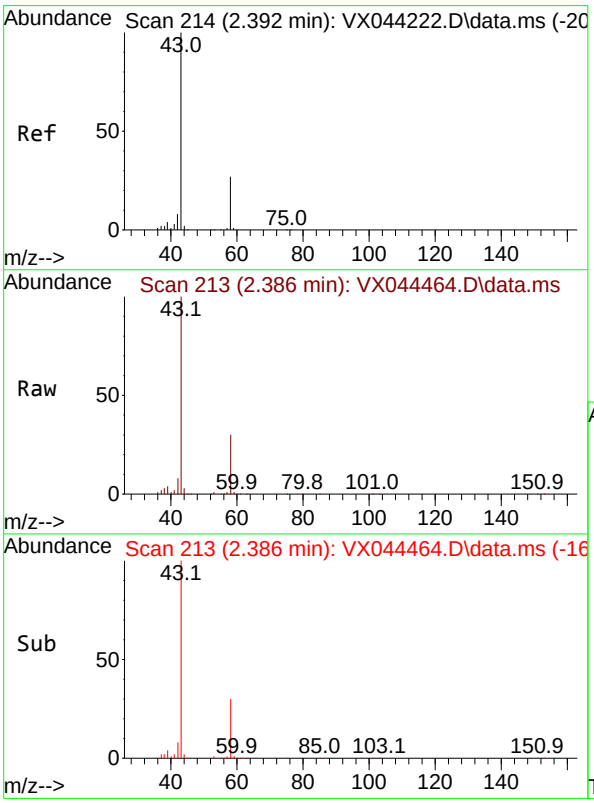
#15
Acrylonitrile
Concen: 226.182 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 217189

Ion	Ratio	Lower	Upper
53	100		
52	86.6	67.4	101.0
51	38.5	30.3	45.5

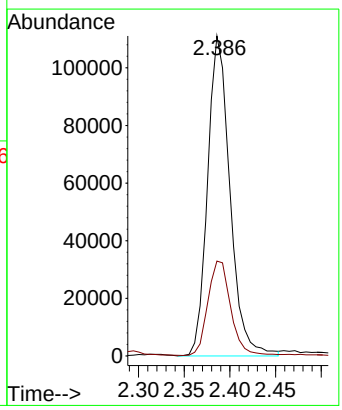


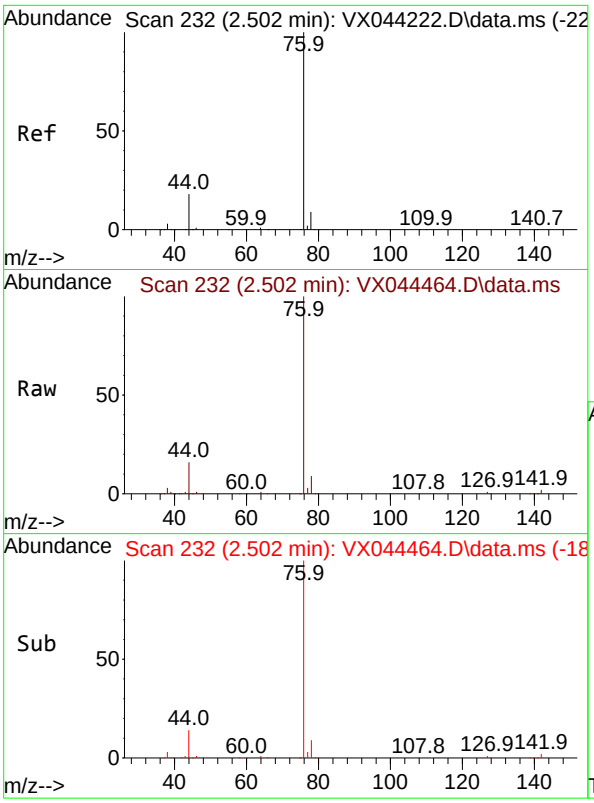


#16
Acetone
Concen: 188.692 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 189212

Ion	Ratio	Lower	Upper
43	100		
58	29.4	21.6	32.4



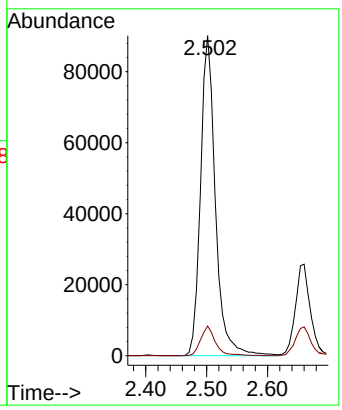


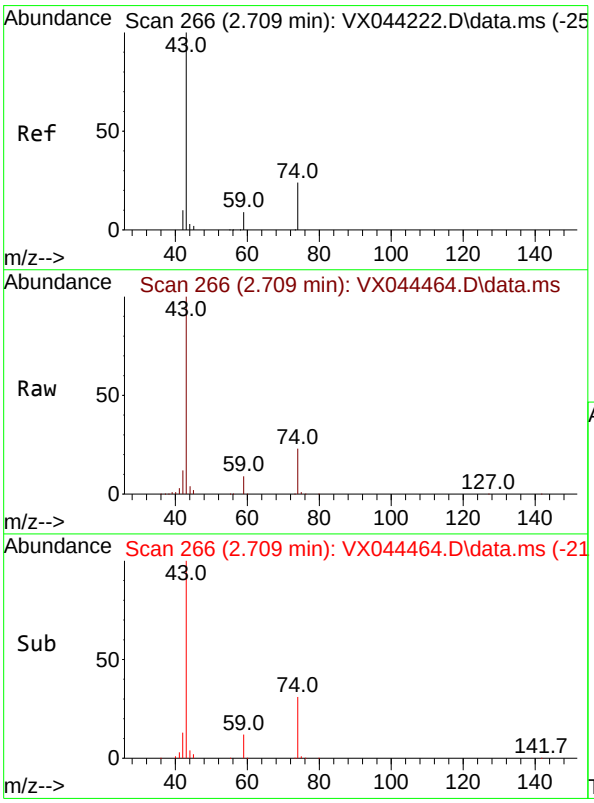
#17
Carbon Disulfide
Concen: 51.130 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 152826

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

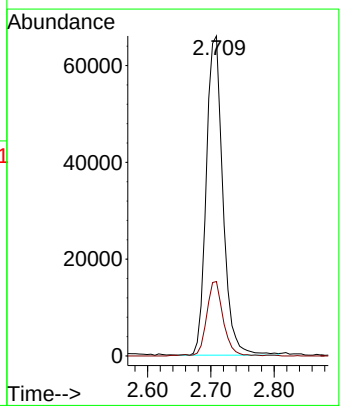


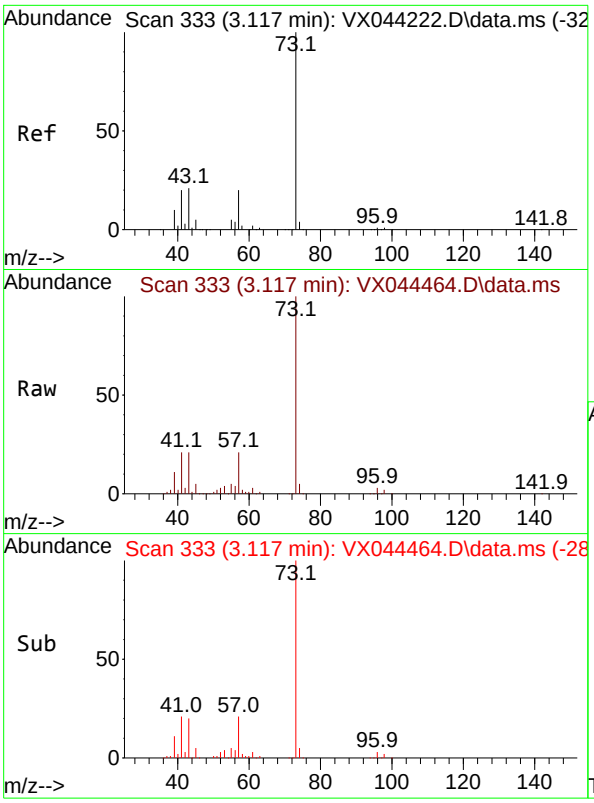


#18
Methyl Acetate
Concen: 46.678 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 120686

Ion	Ratio	Lower	Upper
43	100		
74	23.4	17.7	26.5



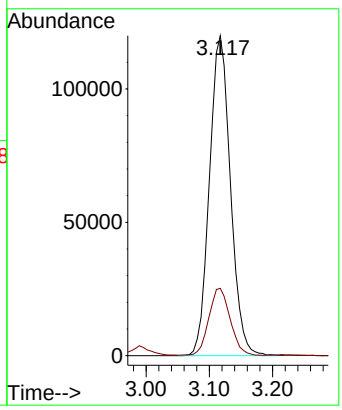


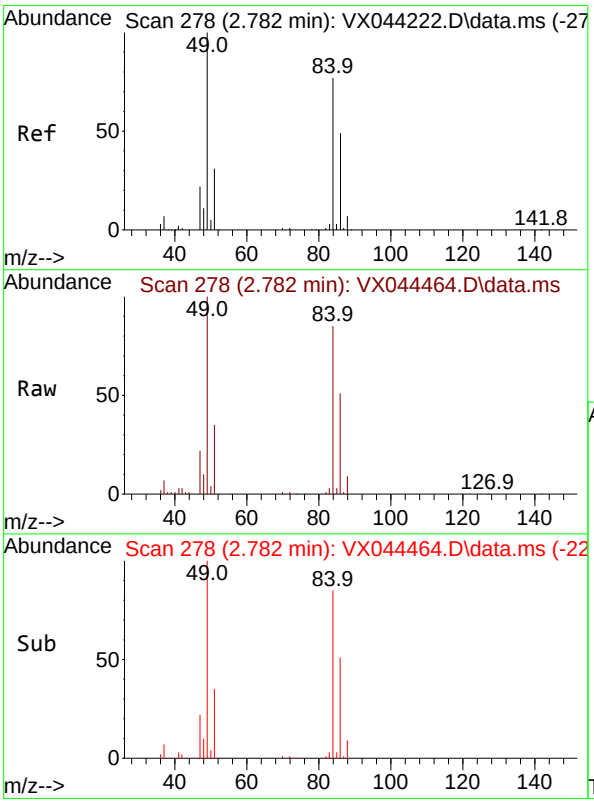
#19
Methyl tert-butyl Ether
Concen: 45.089 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 276668

Ion	Ratio	Lower	Upper
73	100		
57	21.0	16.2	24.4

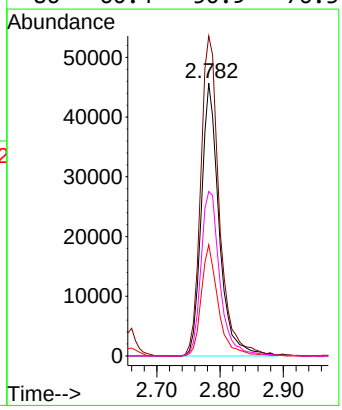


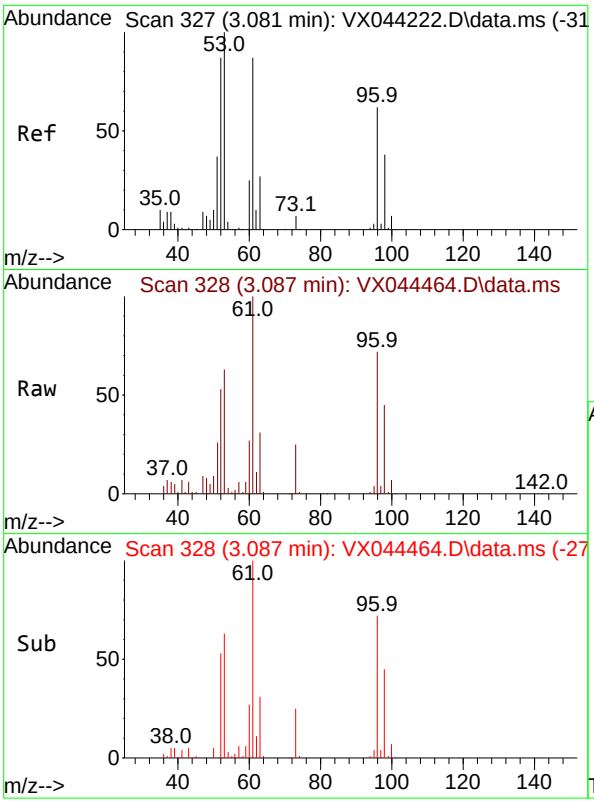


#20
Methylene Chloride
Concen: 47.401 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 84 Resp: 89276

Ion	Ratio	Lower	Upper
84	100		
49	117.4	104.2	156.4
51	40.8	32.2	48.4
86	60.4	50.9	76.3



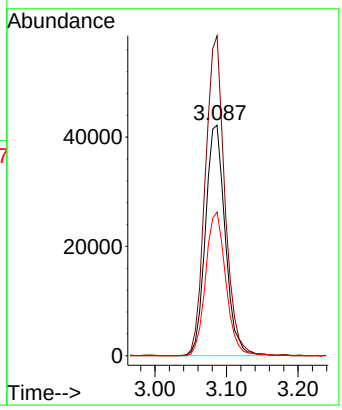


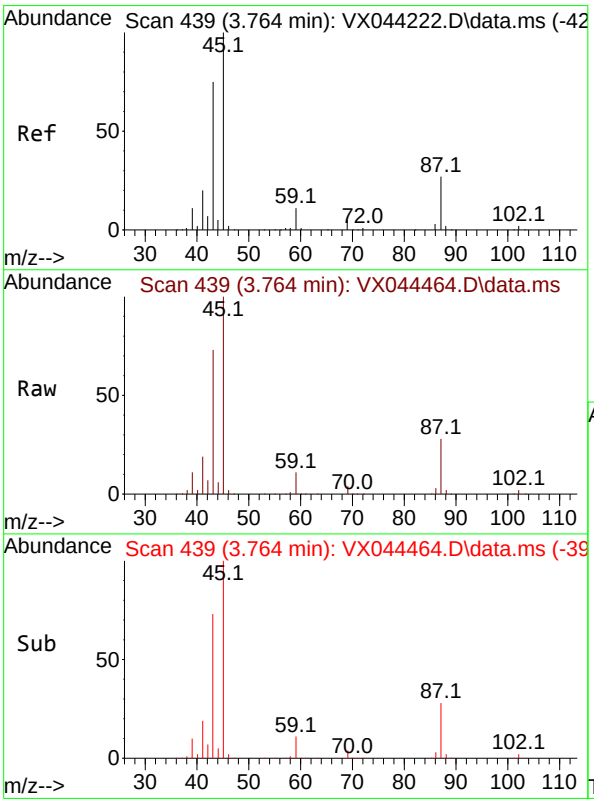
#21
trans-1,2-Dichloroethene
Concen: 48.517 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 81078

Ion	Ratio	Lower	Upper
96	100		
61	138.9	112.0	168.0
98	62.4	48.8	73.2

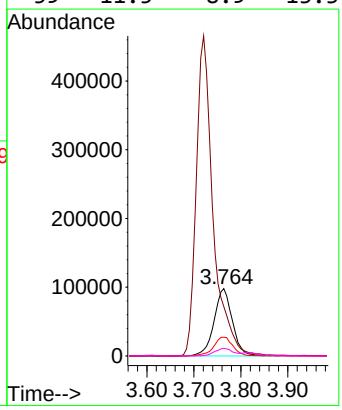


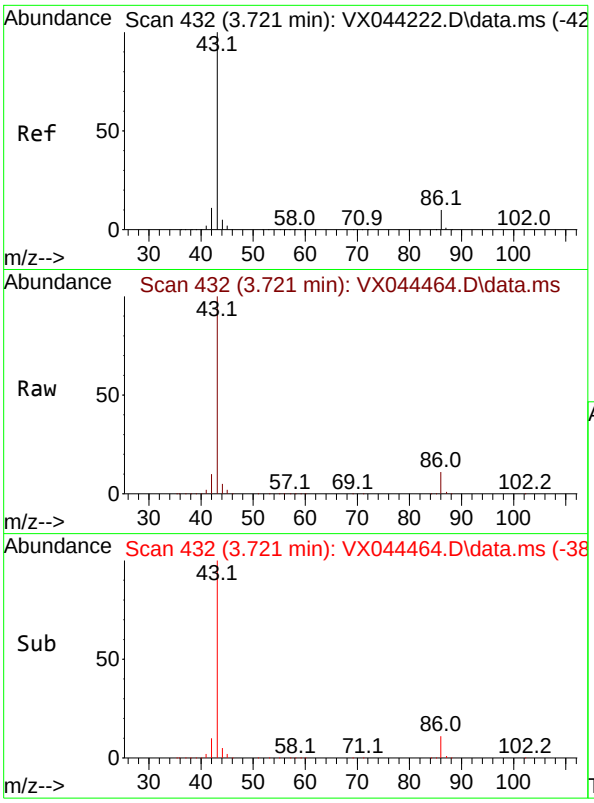


#22
Diisopropyl ether
Concen: 45.018 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 45 Resp: 265503

Ion	Ratio	Lower	Upper
45	100		
43	73.3	60.2	90.2
87	27.7	21.2	31.8
59	11.5	8.9	13.3



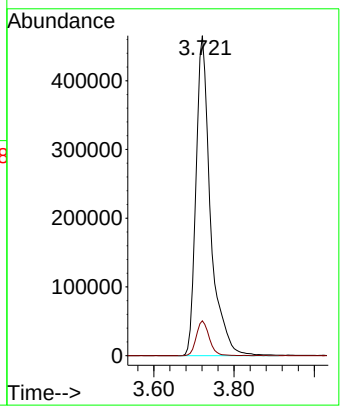


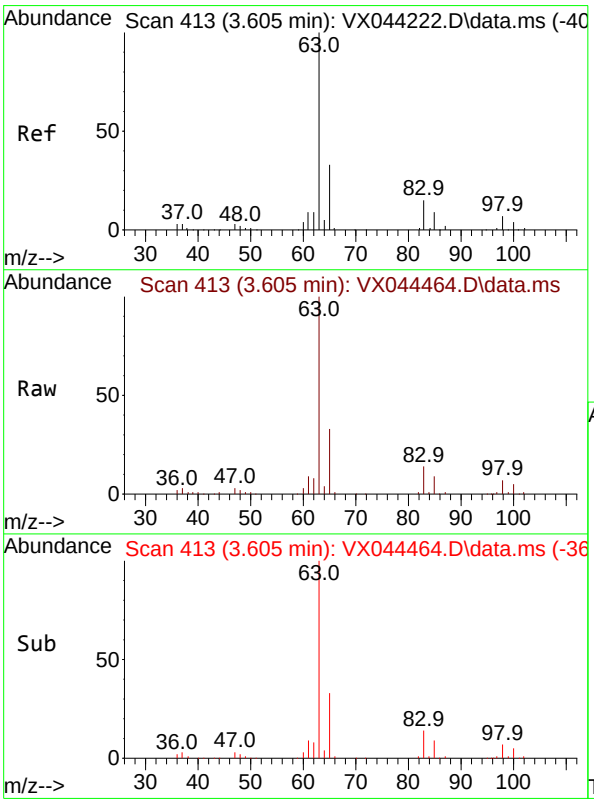
#23
Vinyl Acetate
Concen: 243.510 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1167584

Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.2	12.2

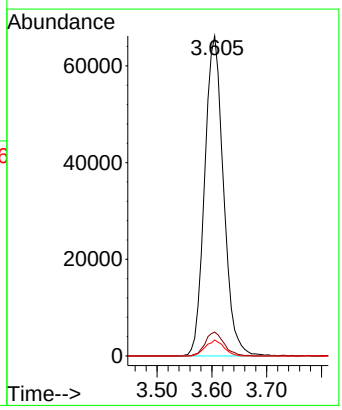


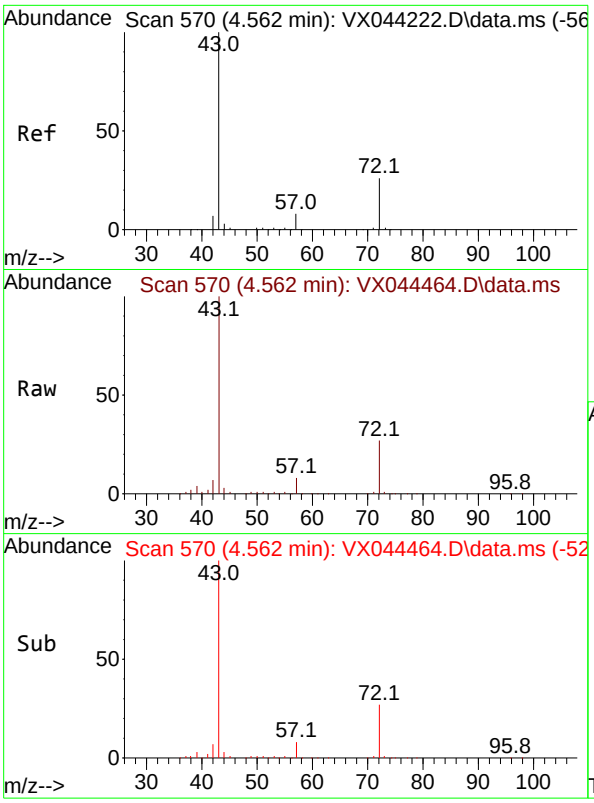


#24
1,1-Dichloroethane
Concen: 48.018 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 63 Resp: 157858

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	5.0	2.1	6.3



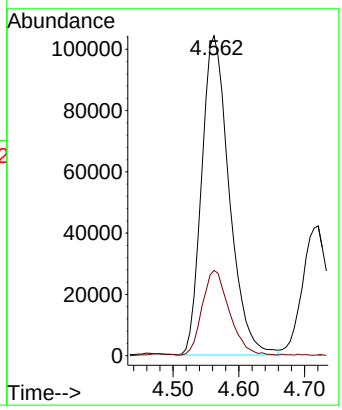


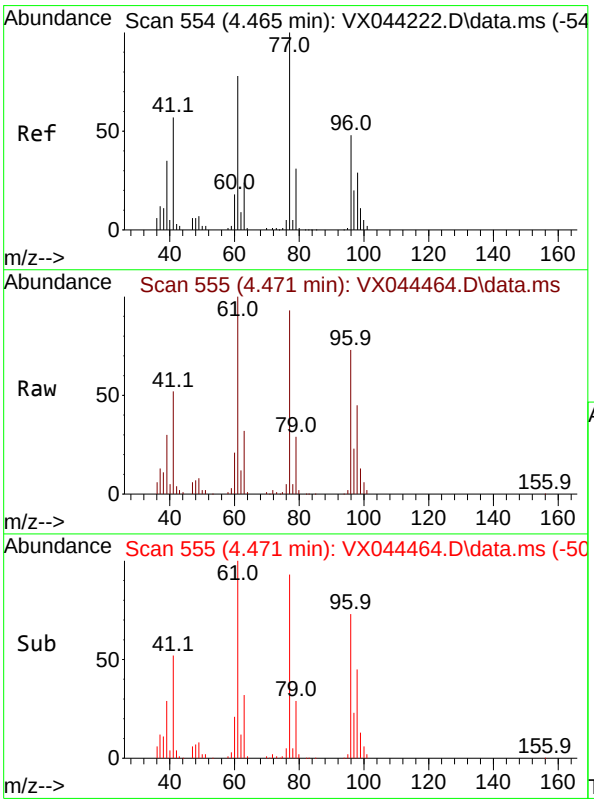
#25
2-Butanone
Concen: 213.237 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 303982

Ion	Ratio	Lower	Upper
43	100		
72	26.5	20.2	30.4

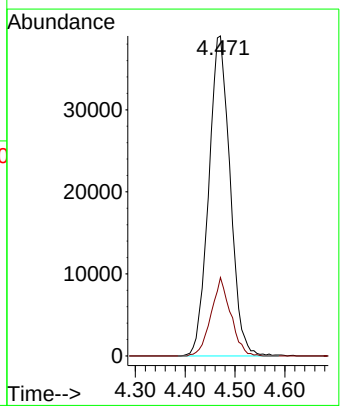


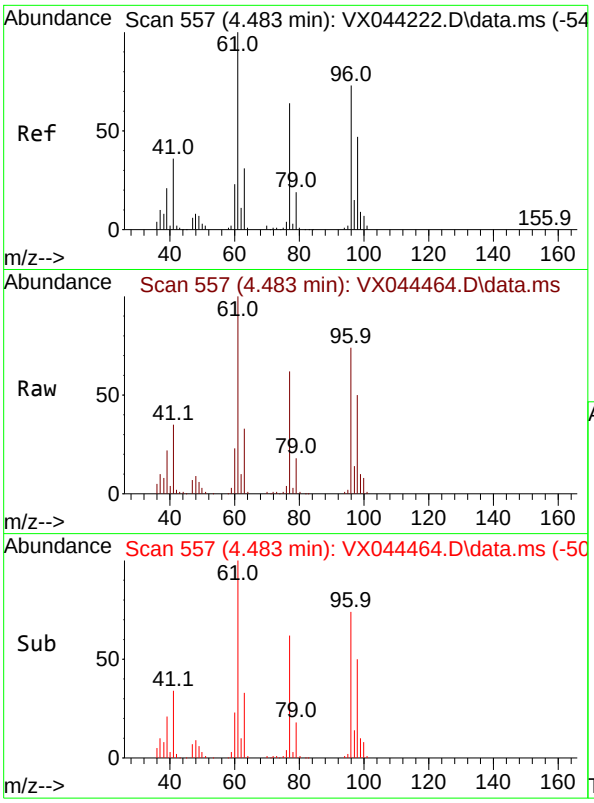


#26
2,2-Dichloropropane
Concen: 43.513 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 77 Resp: 116211

Ion	Ratio	Lower	Upper
77	100		
97	22.5	10.7	32.1



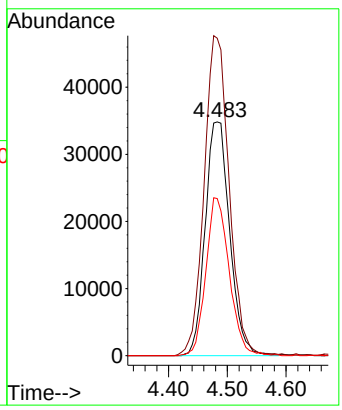


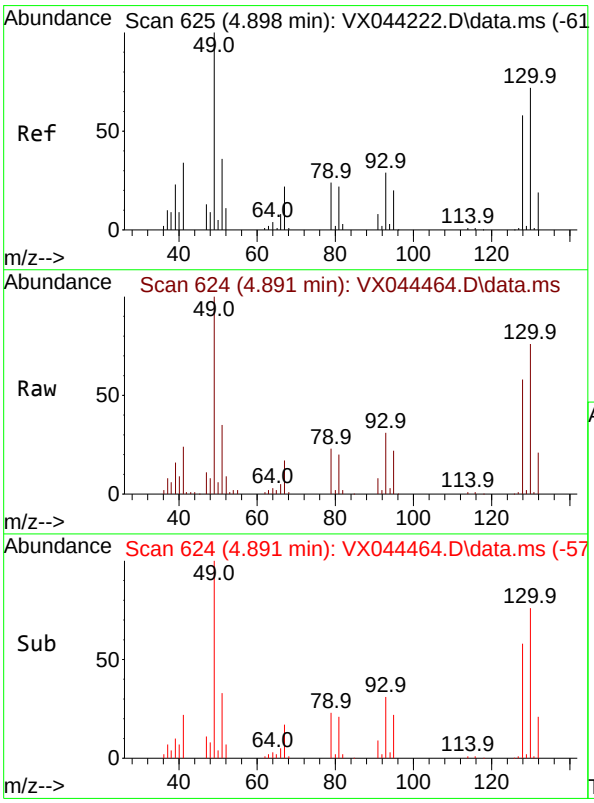
#27
cis-1,2-Dichloroethene
Concen: 47.511 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 100836

Ion	Ratio	Lower	Upper
96	100		
61	139.9	0.0	299.0
98	64.5	0.0	129.0

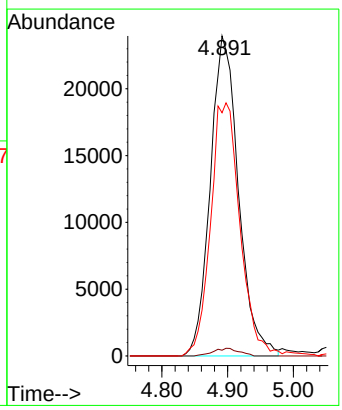


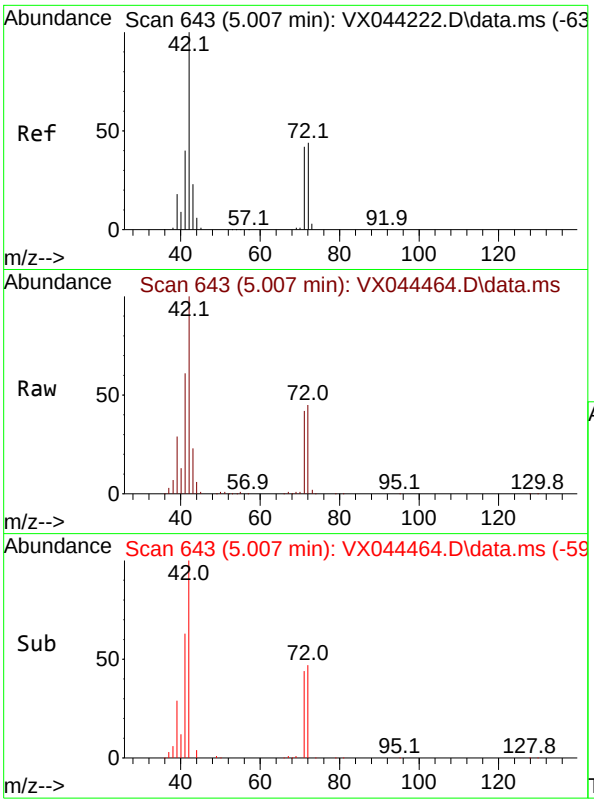


#28
Bromochloromethane
Concen: 44.369 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 49 Resp: 71526

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	82.1	62.1	93.1



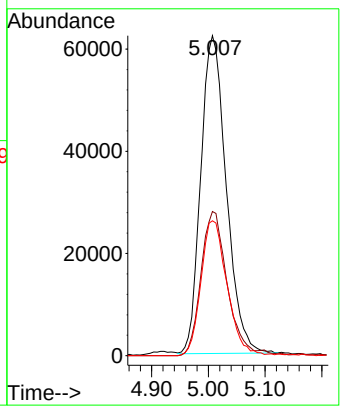


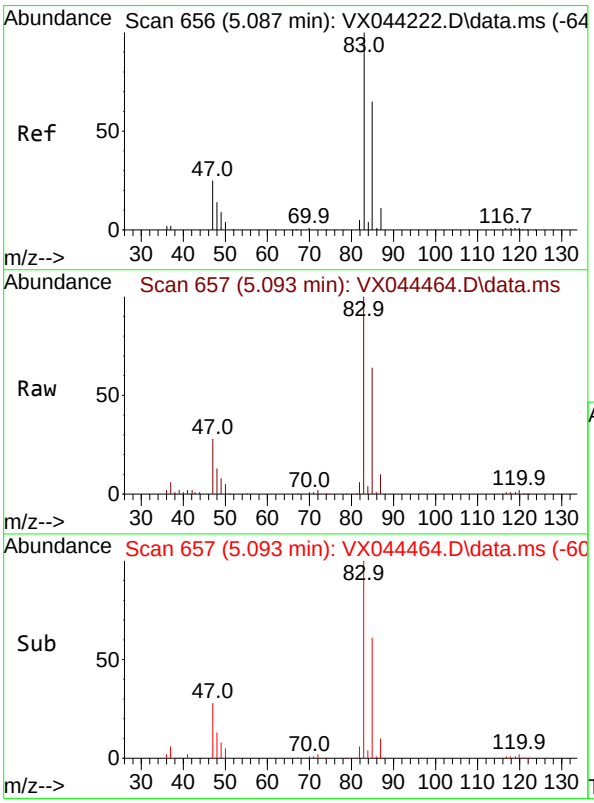
#29
Tetrahydrofuran
Concen: 212.557 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 194494

Ion	Ratio	Lower	Upper
42	100		
72	46.1	37.0	55.6
71	43.4	33.6	50.4

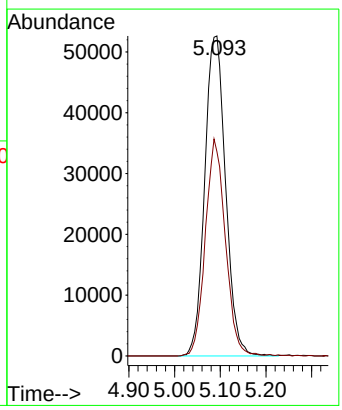


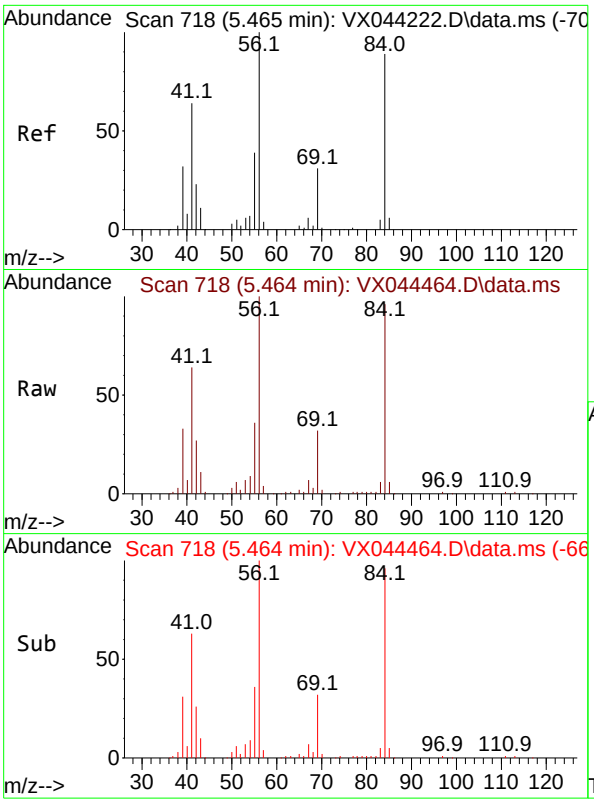


#30
Chloroform
Concen: 45.189 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 83 Resp: 166909

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.6	77.4



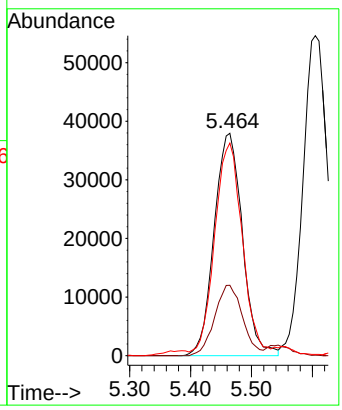


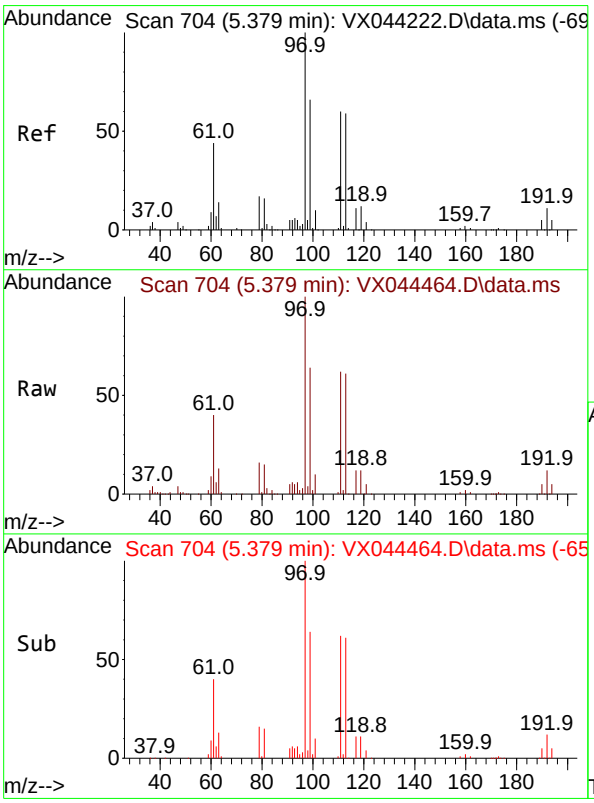
#31
Cyclohexane
Concen: 46.033 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 122203

Ion	Ratio	Lower	Upper
56	100		
69	31.7	24.7	37.1
84	93.5	71.0	106.6

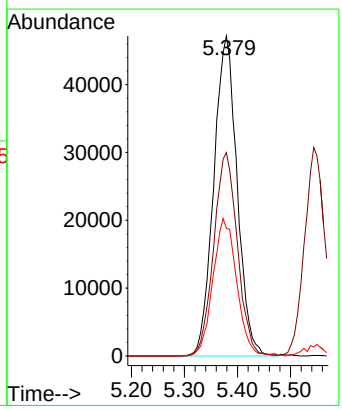


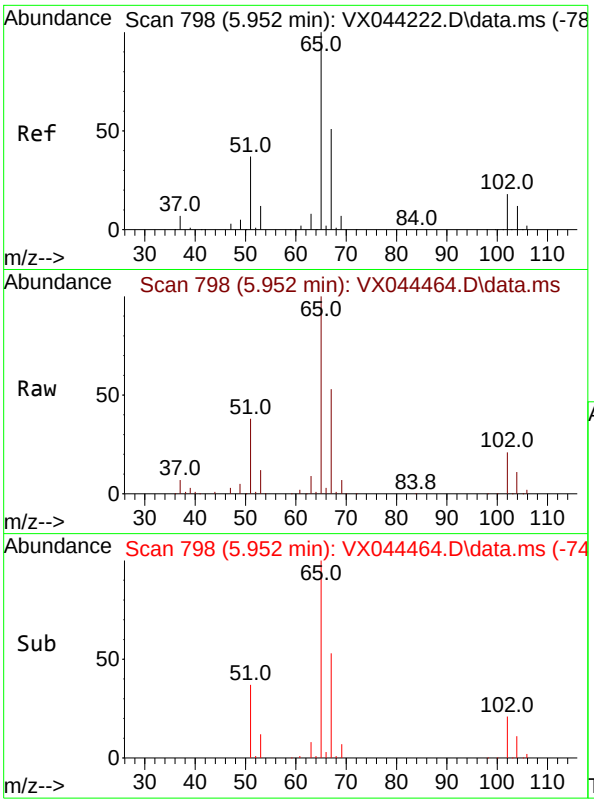


#32
1,1,1-Trichloroethane
Concen: 47.095 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 97 Resp: 144394

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.8	76.2
61	43.7	35.2	52.8



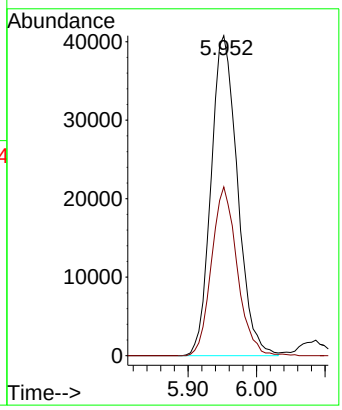


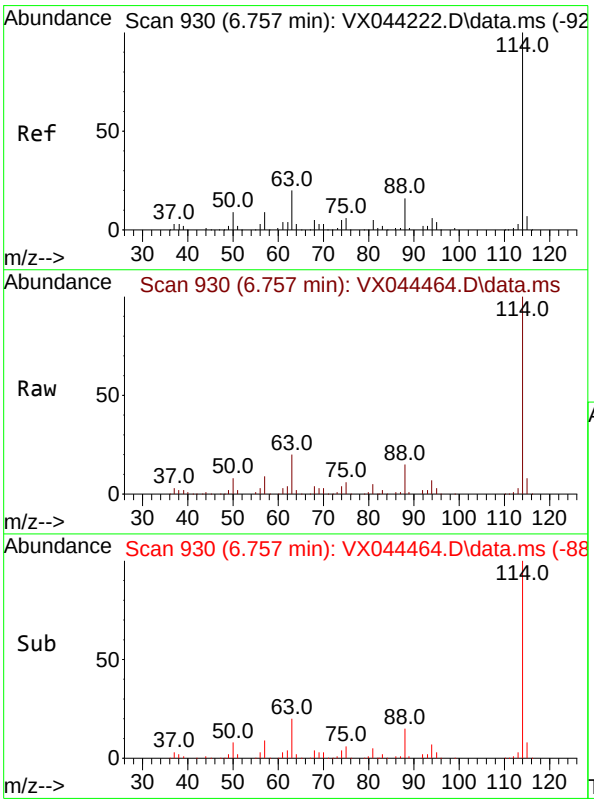
#33
1,2-Dichloroethane-d4
Concen: 44.357 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 109103

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	101.6

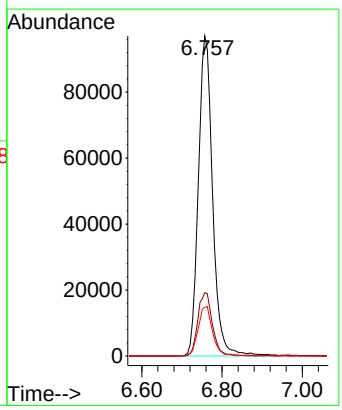


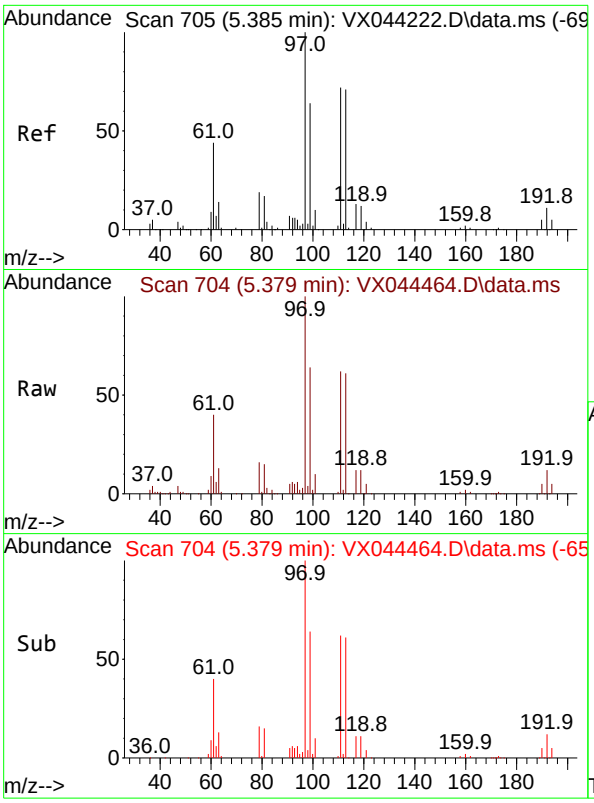


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:114 Resp: 239068

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	40.6
88	15.2	0.0	31.8



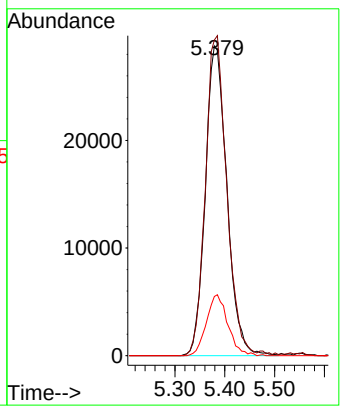


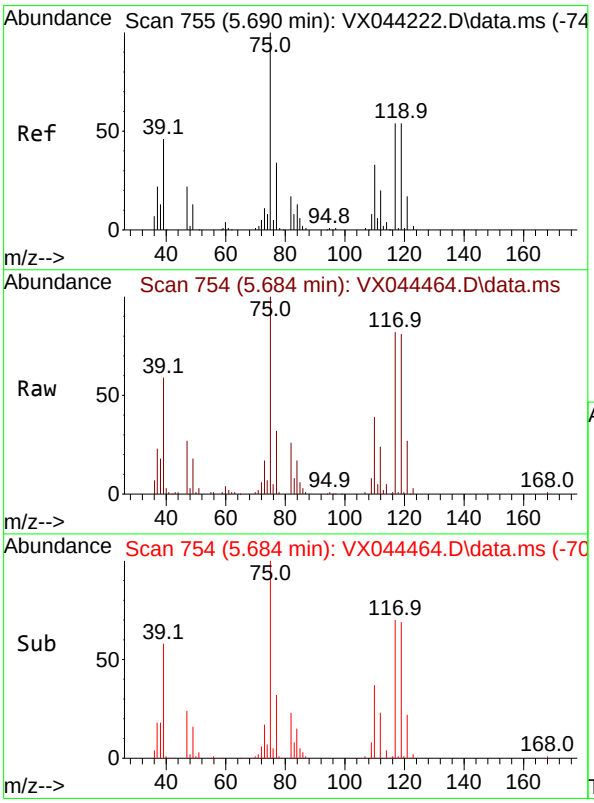
#35
Dibromofluoromethane
Concen: 52.347 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 86675

Ion	Ratio	Lower	Upper
113	100		
111	101.4	80.4	120.6
192	19.6	13.3	19.9

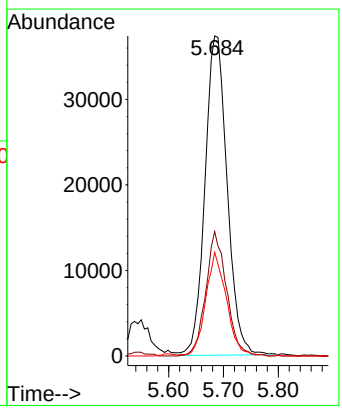


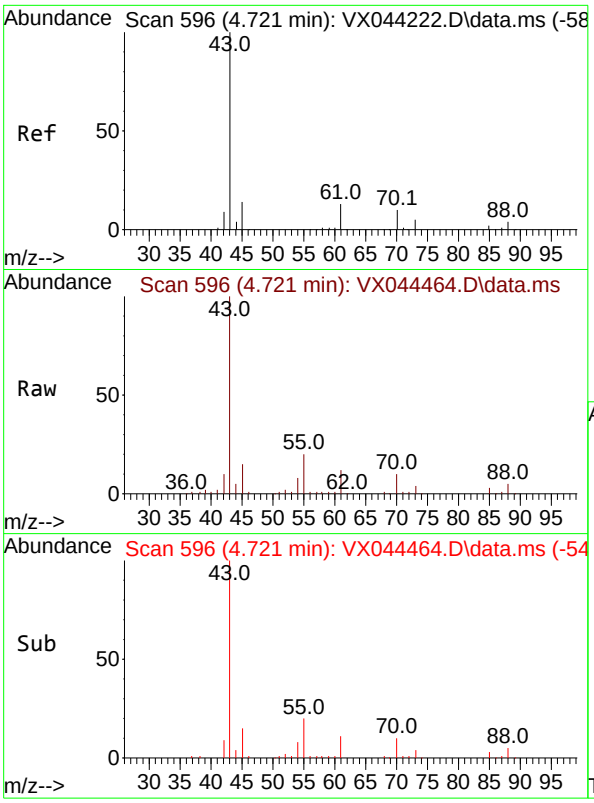


#36
1,1-Dichloropropene
Concen: 49.017 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 104911

Ion	Ratio	Lower	Upper
75	100		
110	36.5	17.3	51.7
77	30.4	25.4	38.0



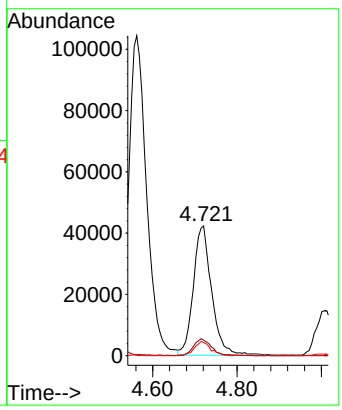


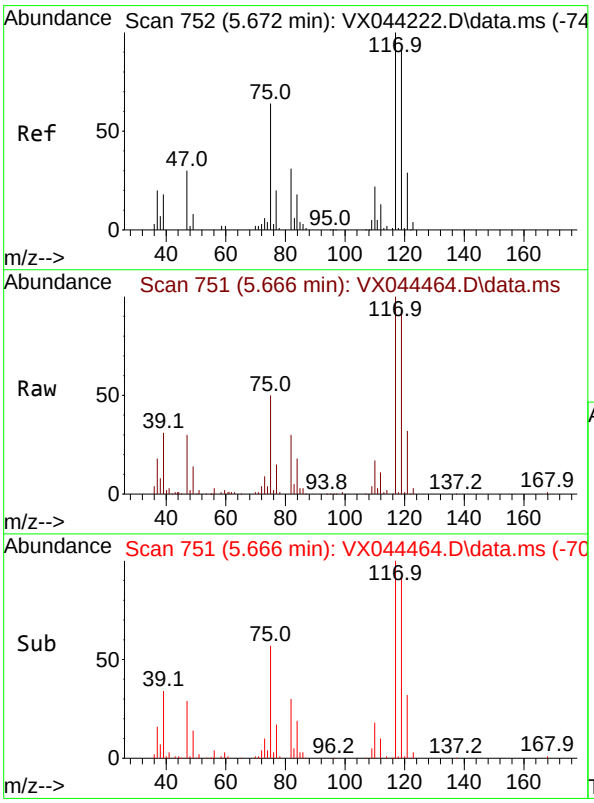
#37
Ethyl Acetate
Concen: 48.180 ug/l
RT: 4.721 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 127468

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.7	7.7	11.5

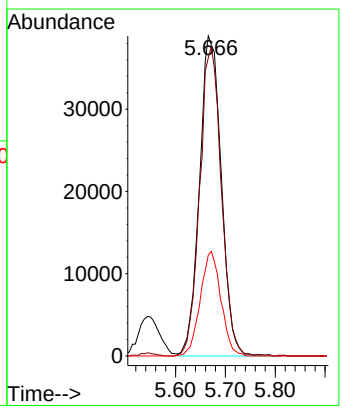


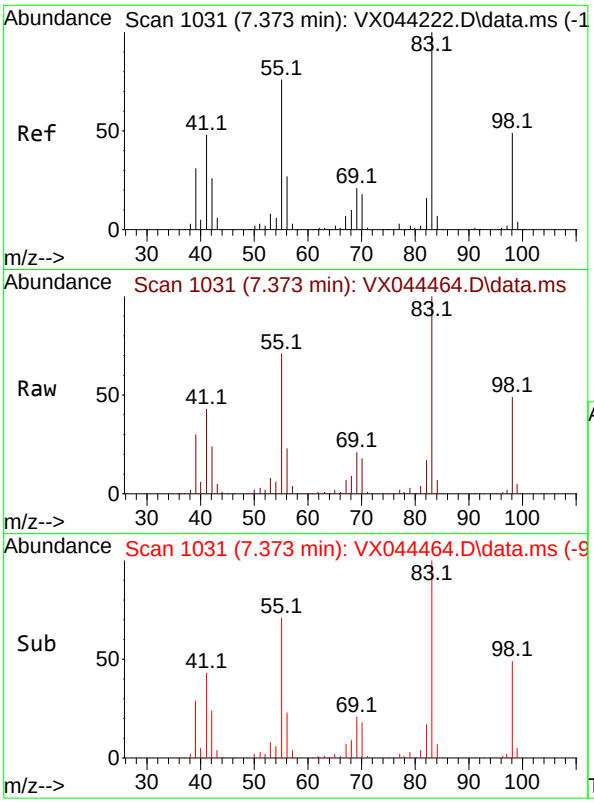


#38
Carbon Tetrachloride
Concen: 51.365 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:117 Resp: 118357

Ion	Ratio	Lower	Upper
117	100		
119	93.0	74.2	111.4
121	31.5	23.0	34.6



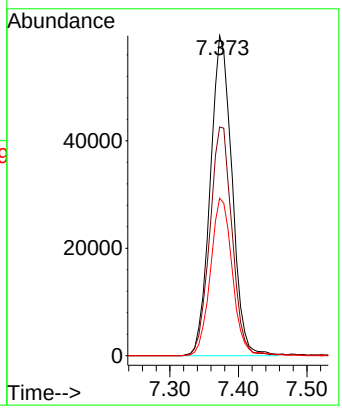


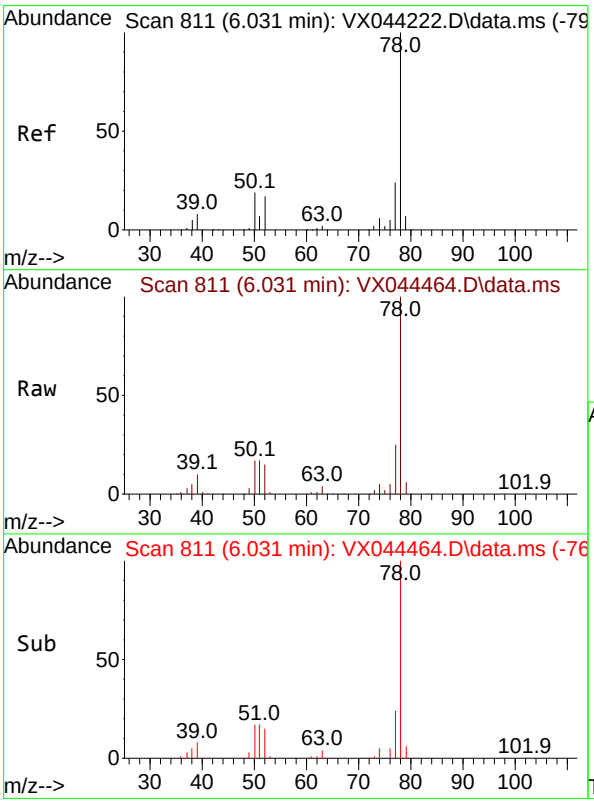
#39
Methylcyclohexane
Concen: 51.370 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 131438

Ion	Ratio	Lower	Upper
83	100		
55	71.4	60.7	91.1
98	49.2	38.9	58.3

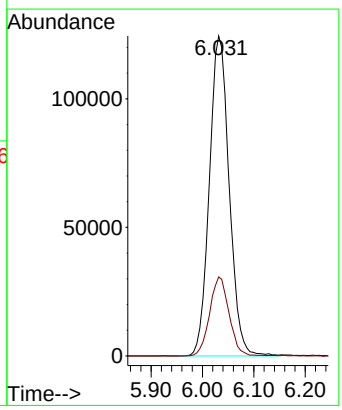


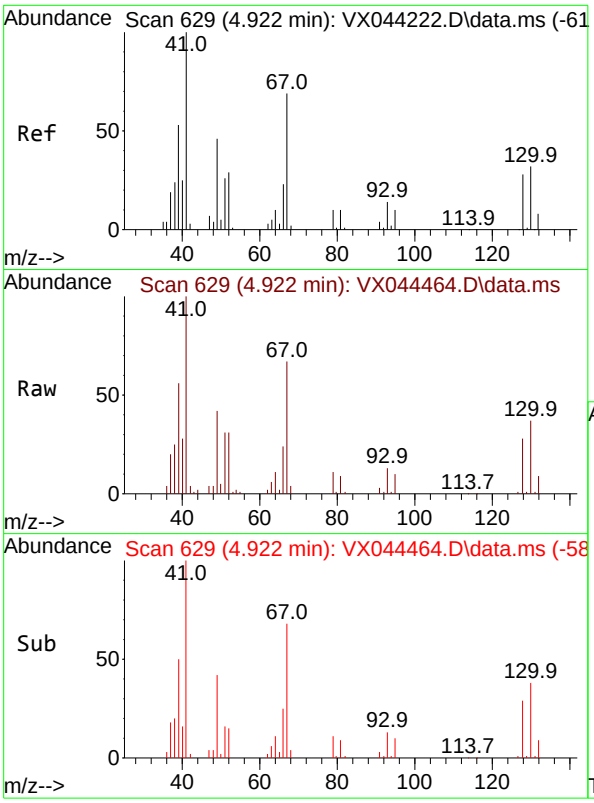


#40
Benzene
Concen: 51.262 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 78 Resp: 333117

Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.3	28.9



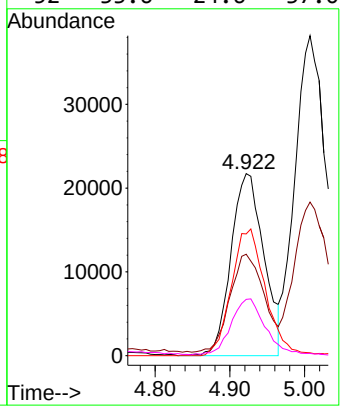


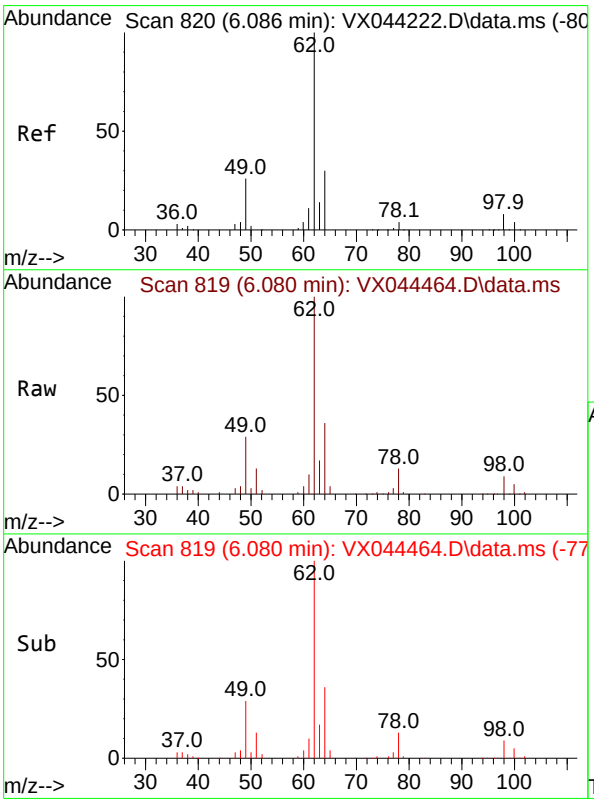
#41
Methacrylonitrile
Concen: 47.401 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 66592

Ion	Ratio	Lower	Upper
41	100		
39	55.8	44.2	66.4
67	72.7	57.2	85.8
52	33.6	24.6	37.0

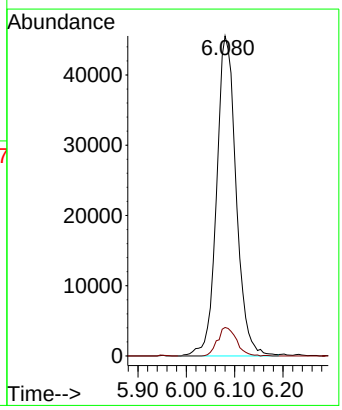


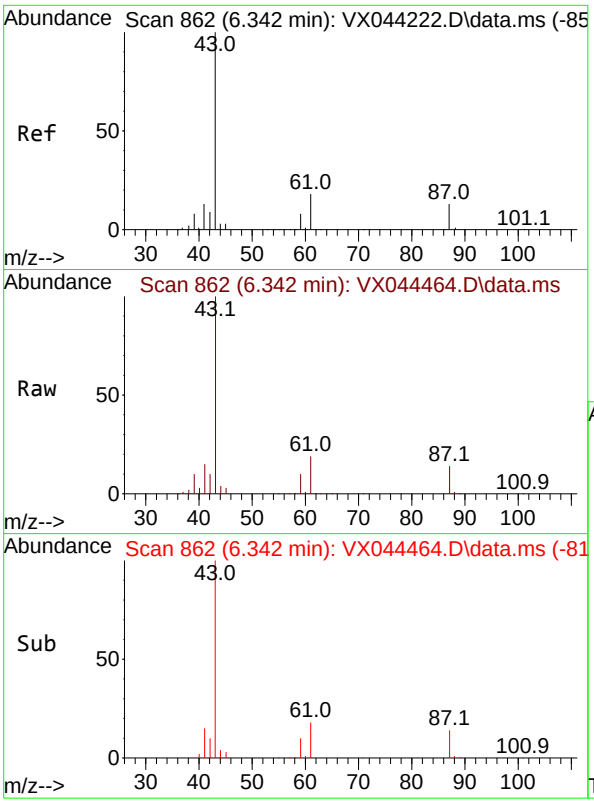


#42
1,2-Dichloroethane
Concen: 47.680 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 62 Resp: 127634

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	15.8



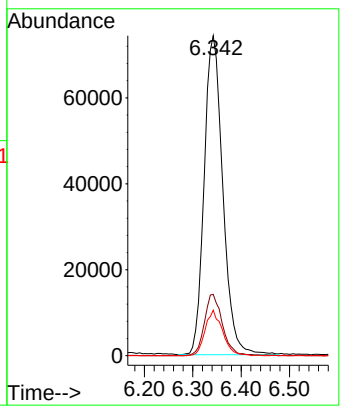


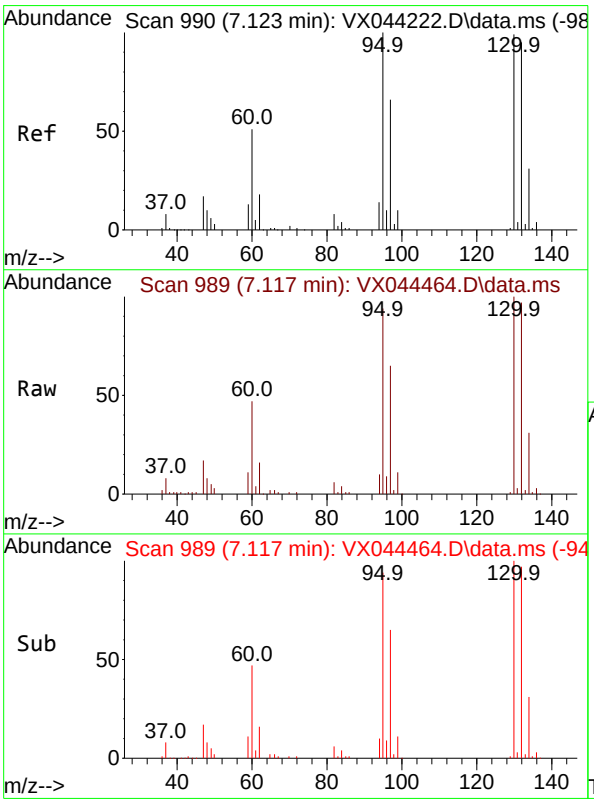
#43
Isopropyl Acetate
Concen: 48.047 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 198680

Ion	Ratio	Lower	Upper
43	100		
61	18.6	14.2	21.2
87	13.3	10.2	15.2

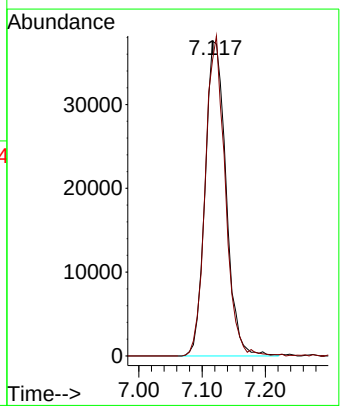


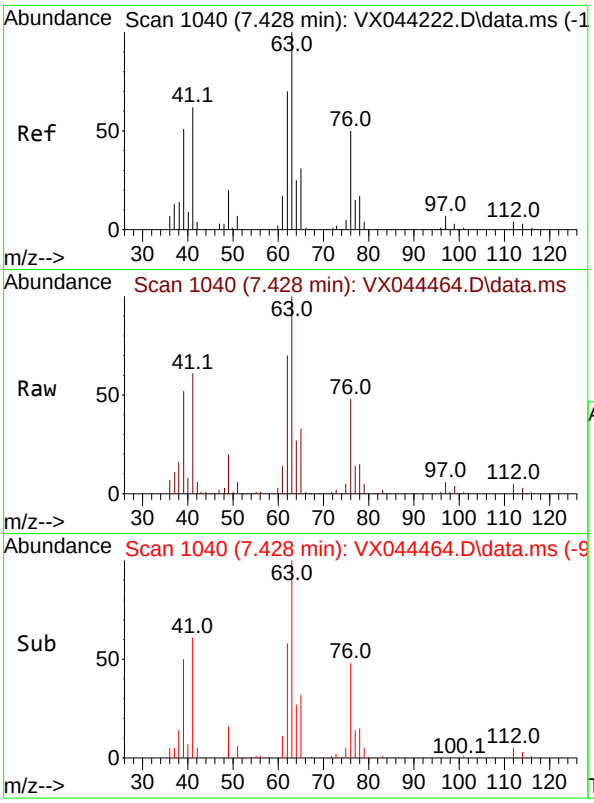


#44
Trichloroethene
Concen: 53.083 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:130 Resp: 86021

Ion	Ratio	Lower	Upper
130	100		
95	94.1	0.0	201.4



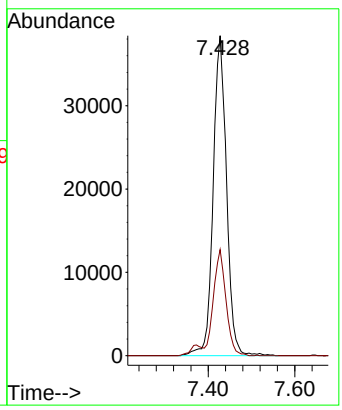


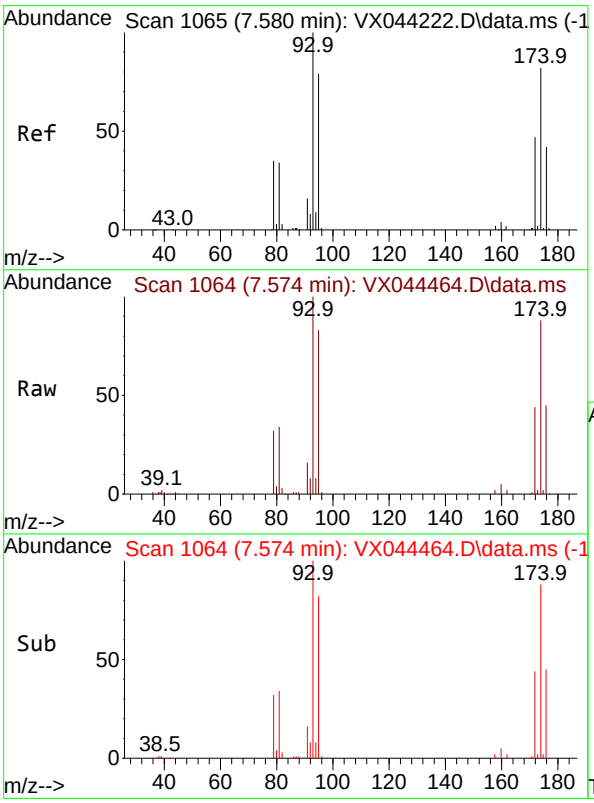
#45
1,2-Dichloropropane
Concen: 49.622 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 82383

Ion	Ratio	Lower	Upper
63	100		
65	33.1	24.6	37.0

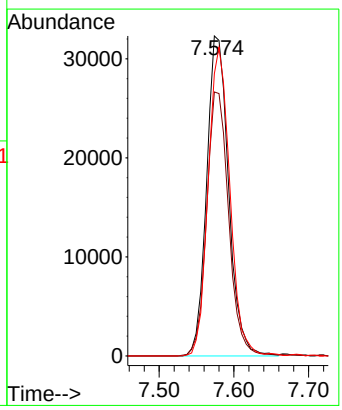


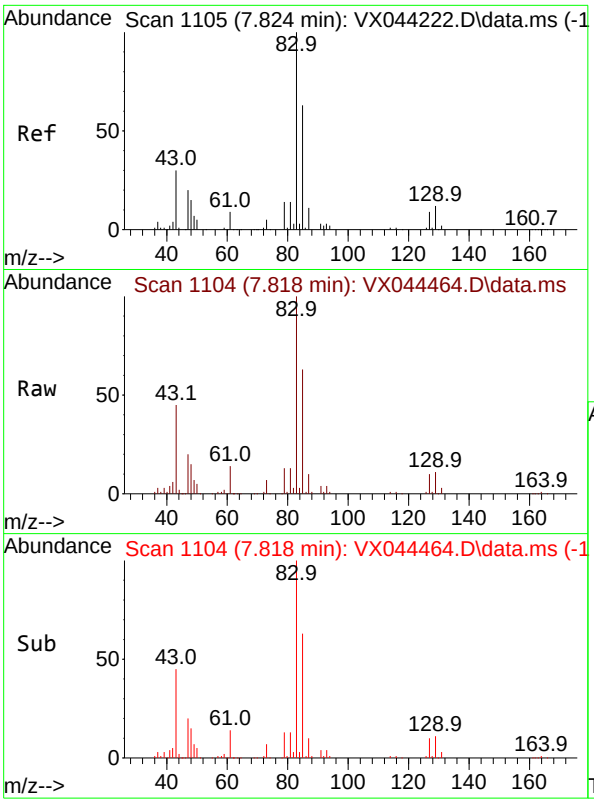


#46
Dibromomethane
Concen: 51.184 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 93 Resp: 65924

Ion	Ratio	Lower	Upper
93	100		
95	82.6	65.4	98.2
174	95.5	67.9	101.9



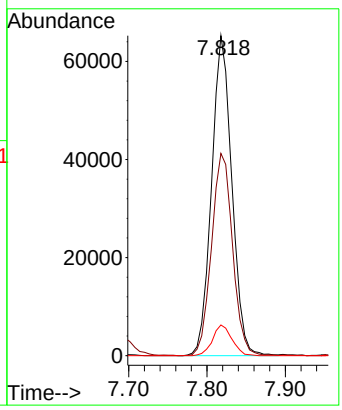


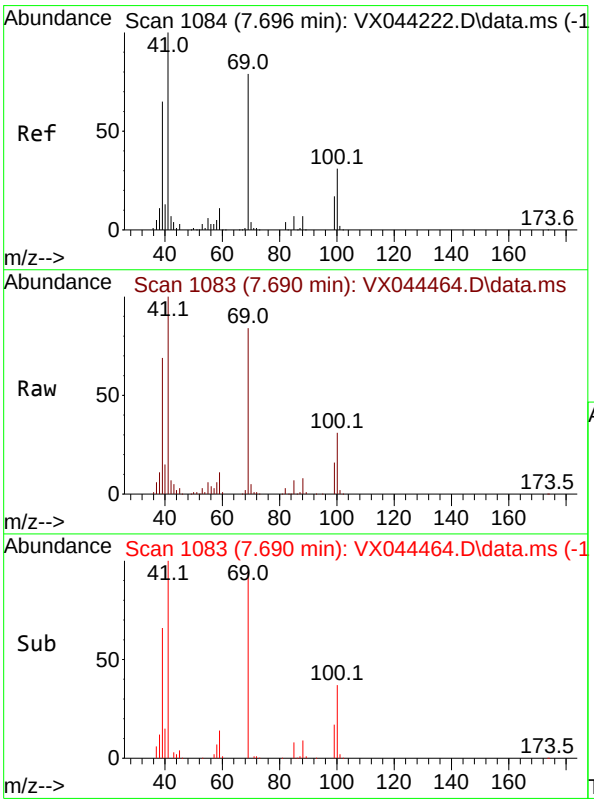
#47
Bromodichloromethane
Concen: 52.723 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 117278

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	9.6	7.3	10.9

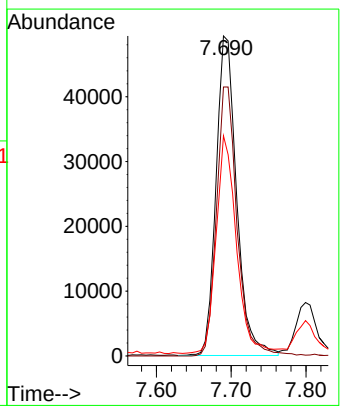


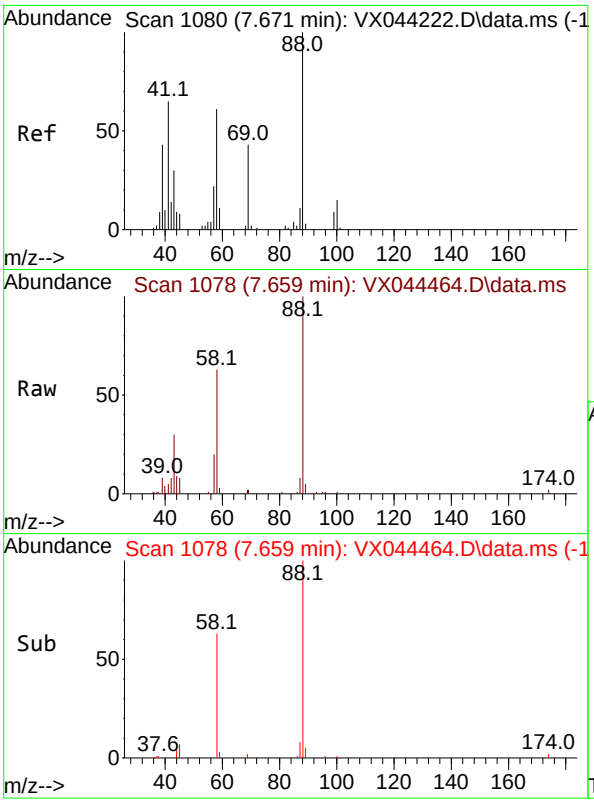


#48
Methyl methacrylate
Concen: 47.115 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 41 Resp: 94575

Ion	Ratio	Lower	Upper
41	100		
69	84.6	62.4	93.6
39	66.9	53.3	79.9



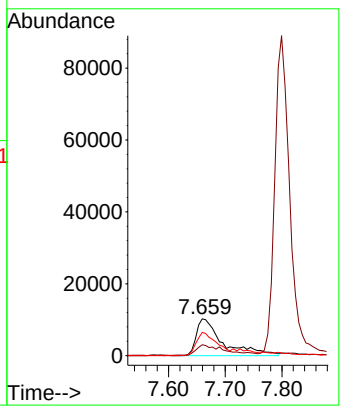


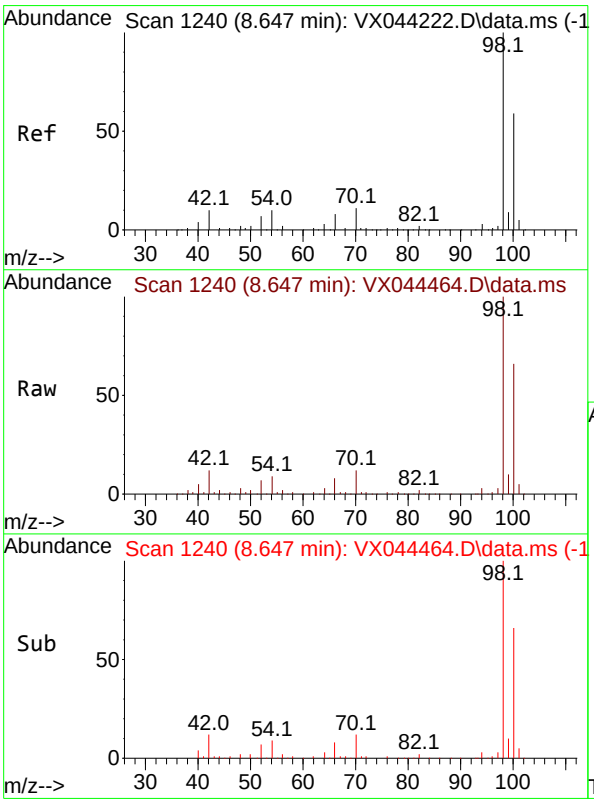
#49
1,4-Dioxane
Concen: 1003.530 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.012 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 33398

Ion	Ratio	Lower	Upper
88	100		
43	27.8	27.1	40.7
58	48.6	41.0	61.4

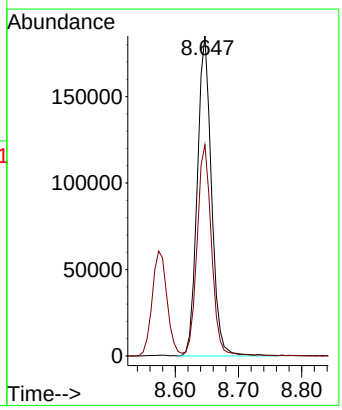


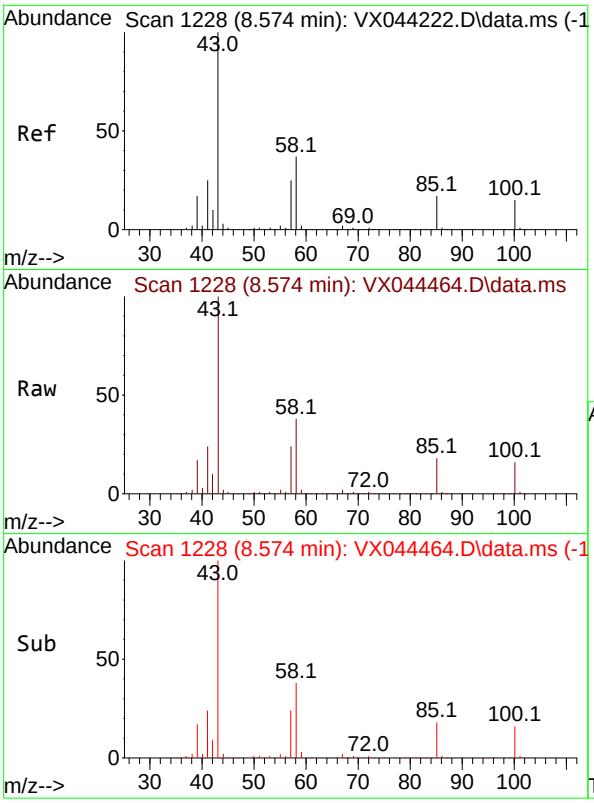


#50
Toluene-d8
Concen: 51.923 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 98 Resp: 290046

Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.5	77.3



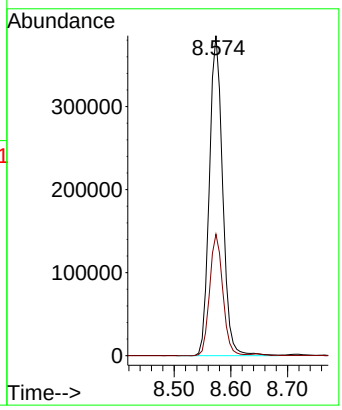


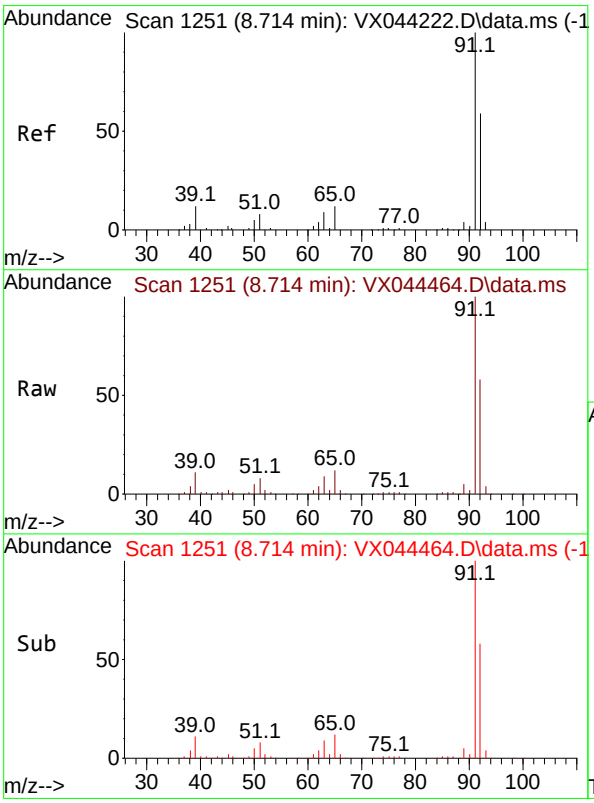
#51
4-Methyl-2-Pentanone
Concen: 235.413 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 625919

Ion	Ratio	Lower	Upper
43	100		
58	37.5	29.4	44.0

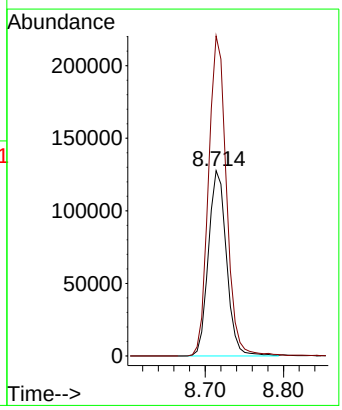


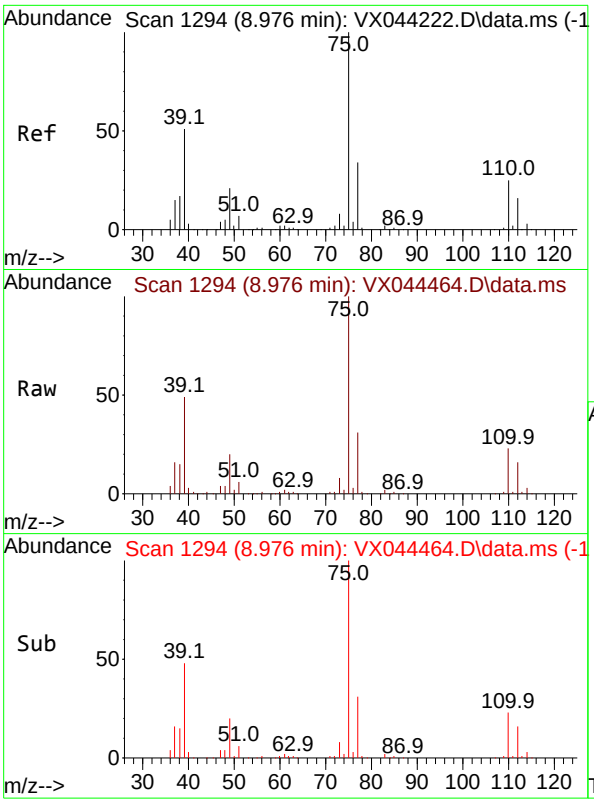


#52
Toluene
Concen: 50.071 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 92 Resp: 204328

Ion	Ratio	Lower	Upper
92	100		
91	171.3	137.0	205.6



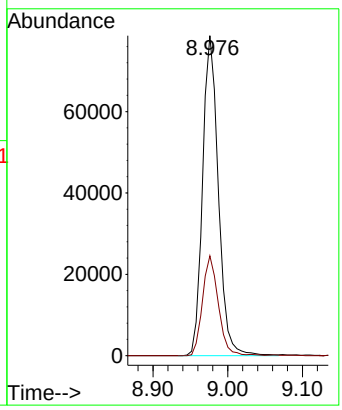


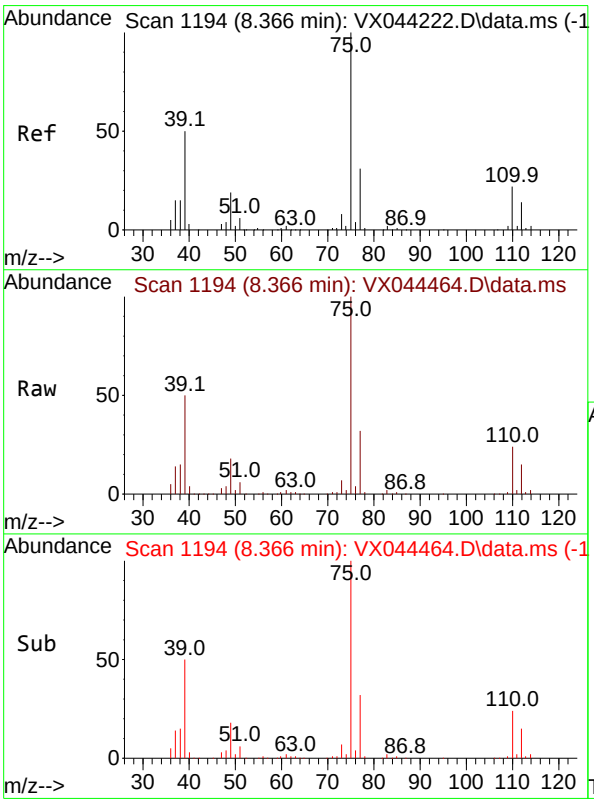
#53
t-1,3-Dichloropropene
Concen: 48.388 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 115268

Ion	Ratio	Lower	Upper
75	100		
77	31.2	27.2	40.8

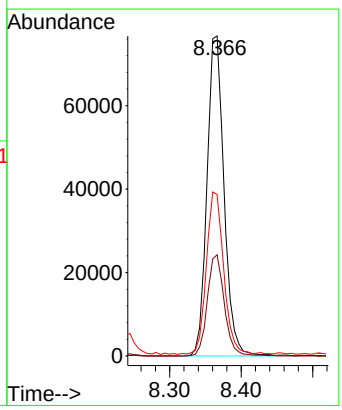


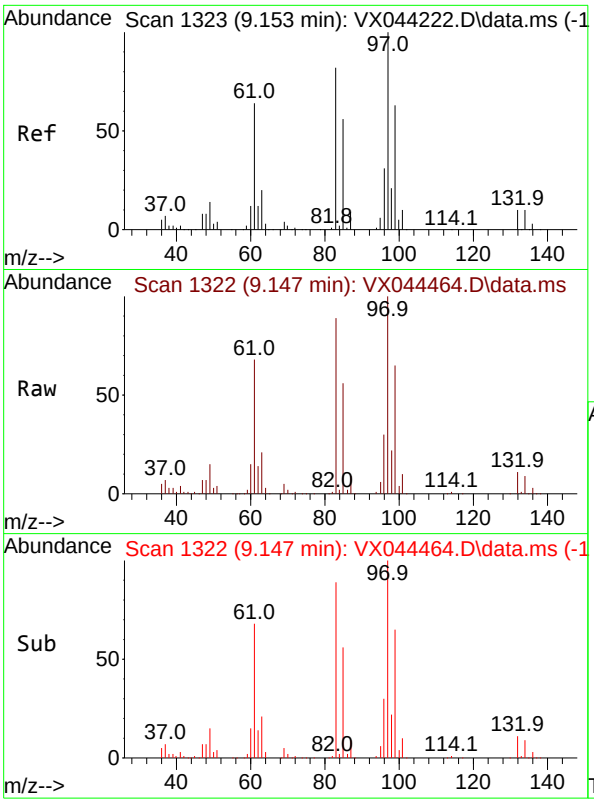


#54
cis-1,3-Dichloropropene
Concen: 52.437 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 127004

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.7	37.1
39	50.0	40.3	60.5



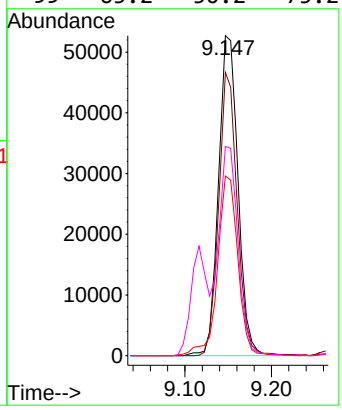


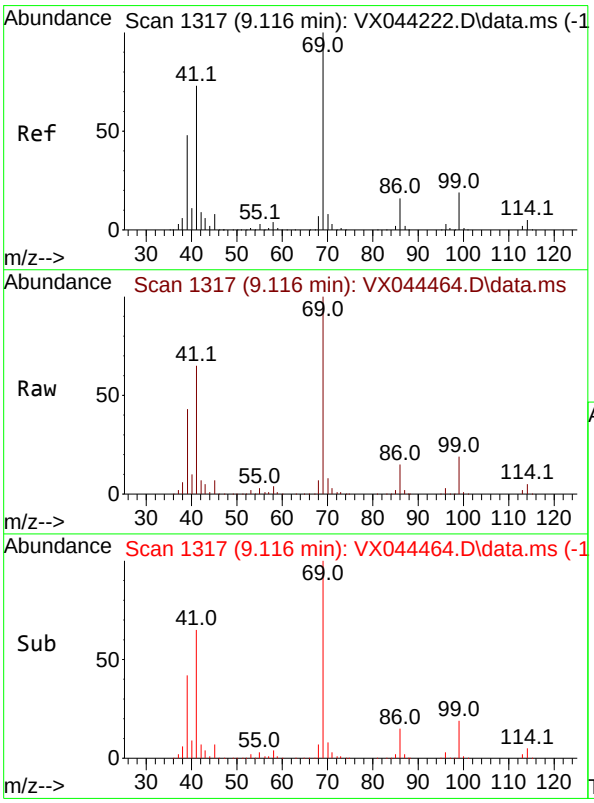
#55
1,1,2-Trichloroethane
Concen: 50.814 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 82378

Ion	Ratio	Lower	Upper
97	100		
83	88.5	65.3	97.9
85	56.0	44.6	67.0
99	65.2	50.2	75.2

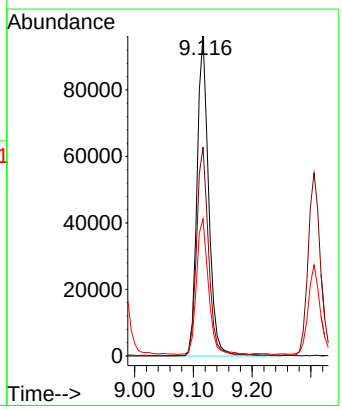


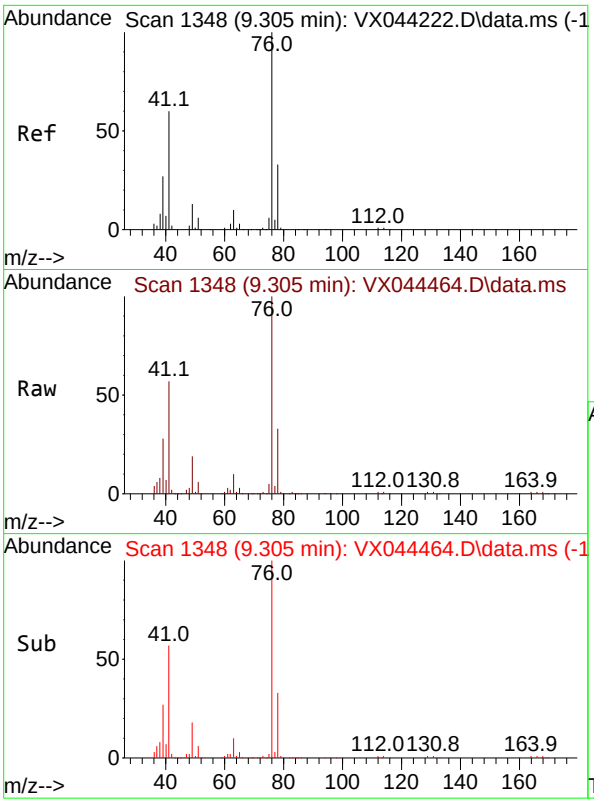


#56
Ethyl methacrylate
Concen: 51.516 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 69 Resp: 131845

Ion	Ratio	Lower	Upper
69	100		
41	66.5	56.6	85.0
39	43.7	37.4	56.0



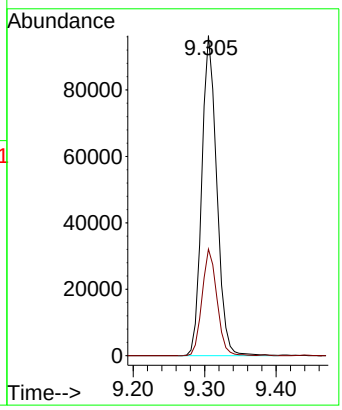


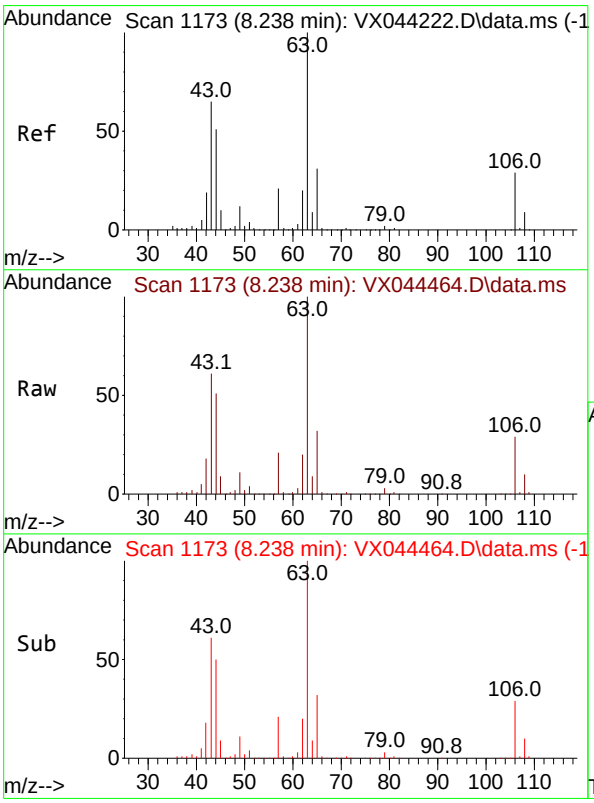
#57
1,3-Dichloropropane
Concen: 49.799 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 140522

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.5	39.7

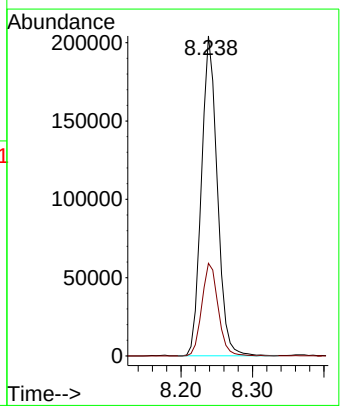


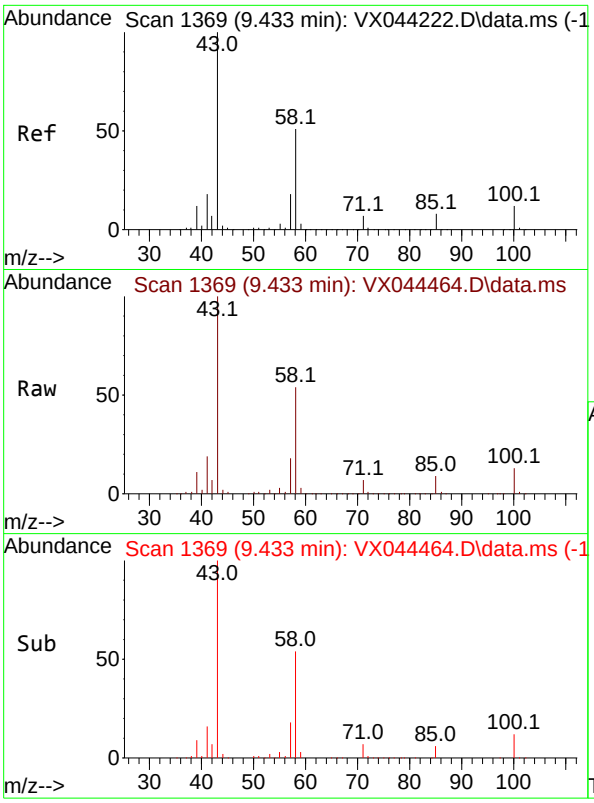


#58
2-Chloroethyl Vinyl ether
Concen: 243.652 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 63 Resp: 314516

Ion	Ratio	Lower	Upper
63	100		
106	29.8	22.8	34.2



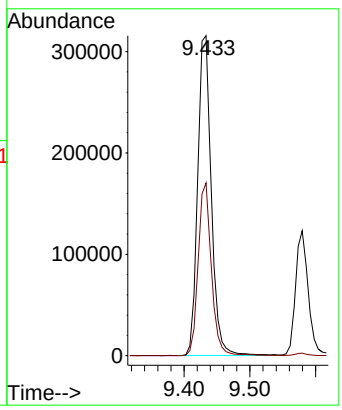


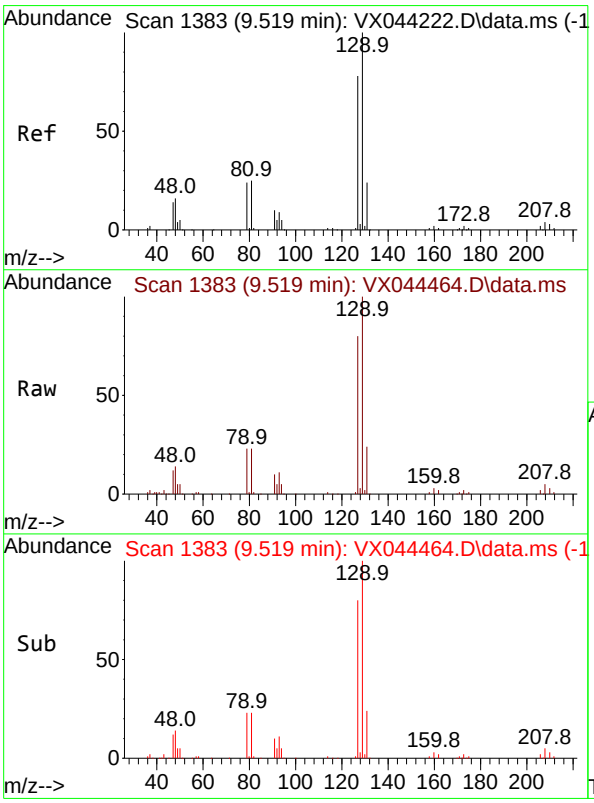
#59
2-Hexanone
Concen: 236.376 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 454909

Ion	Ratio	Lower	Upper
43	100		
58	52.3	25.7	77.0

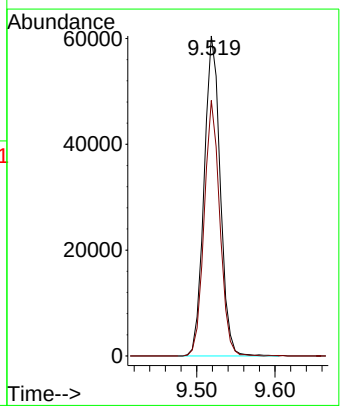


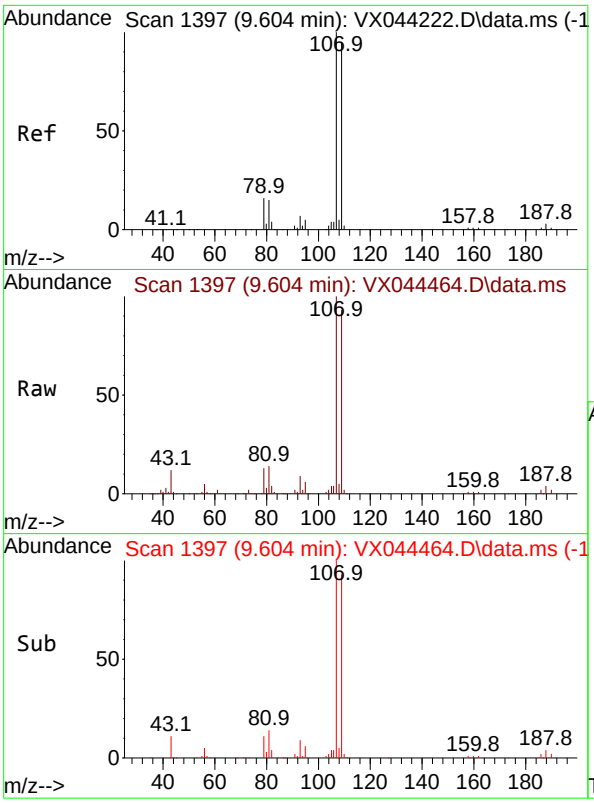


#60
Dibromochloromethane
Concen: 50.206 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:129 Resp: 86219

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.5	115.3



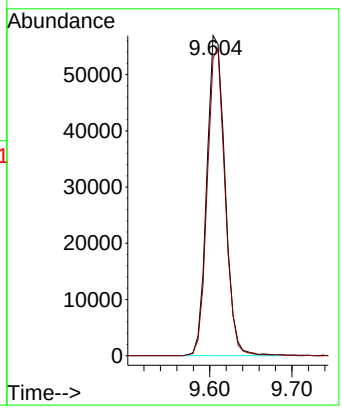


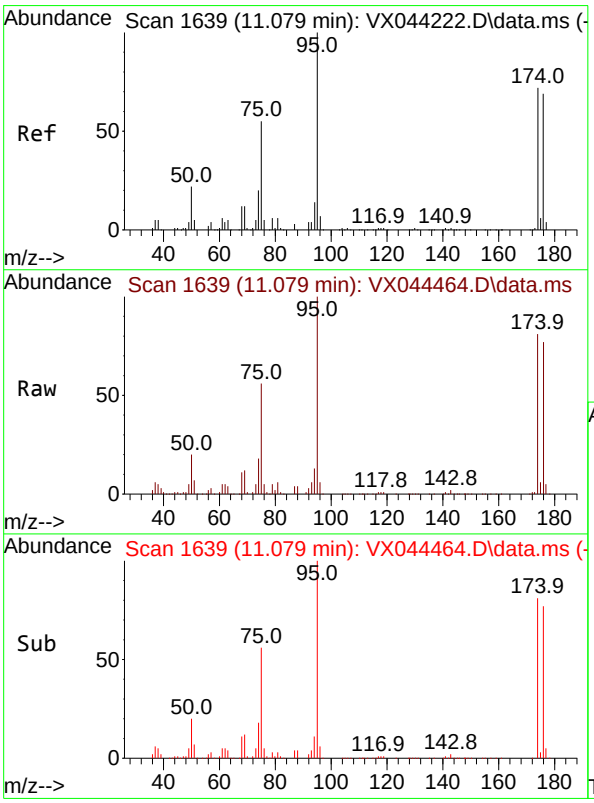
#61
1,2-Dibromoethane
Concen: 53.053 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 87547

Ion	Ratio	Lower	Upper
107	100		
109	94.1	77.0	115.4

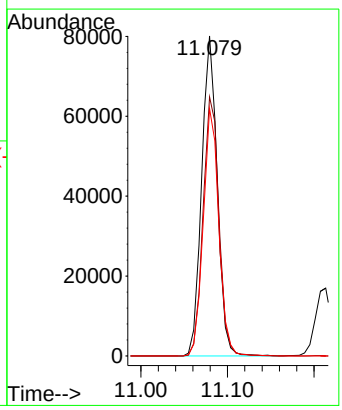


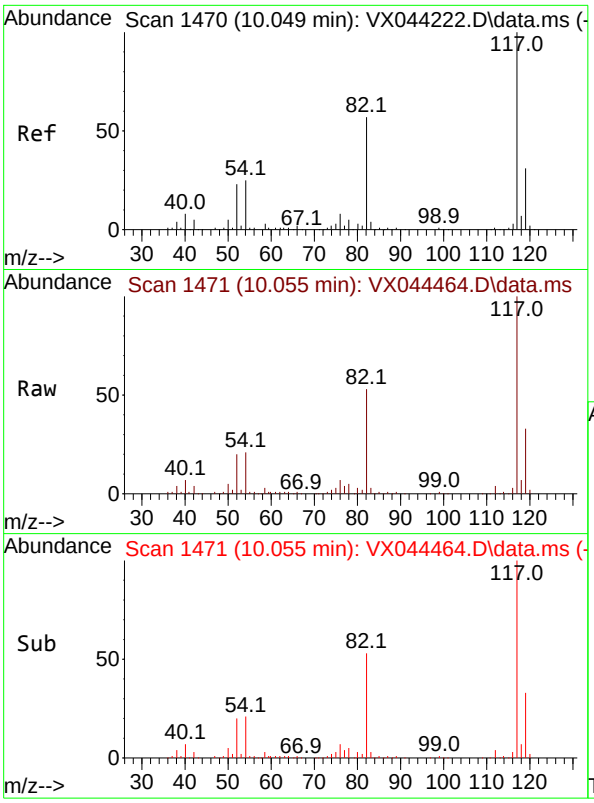


#62
4-Bromofluorobenzene
Concen: 51.161 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 95 Resp: 99862

Ion	Ratio	Lower	Upper
95	100		
174	83.0	0.0	145.8
176	77.6	0.0	137.8



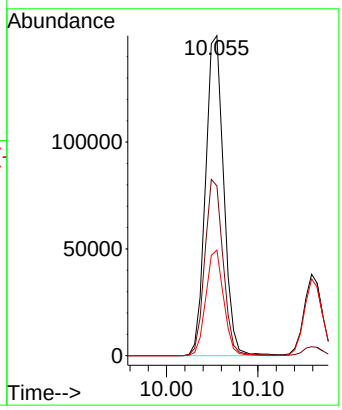


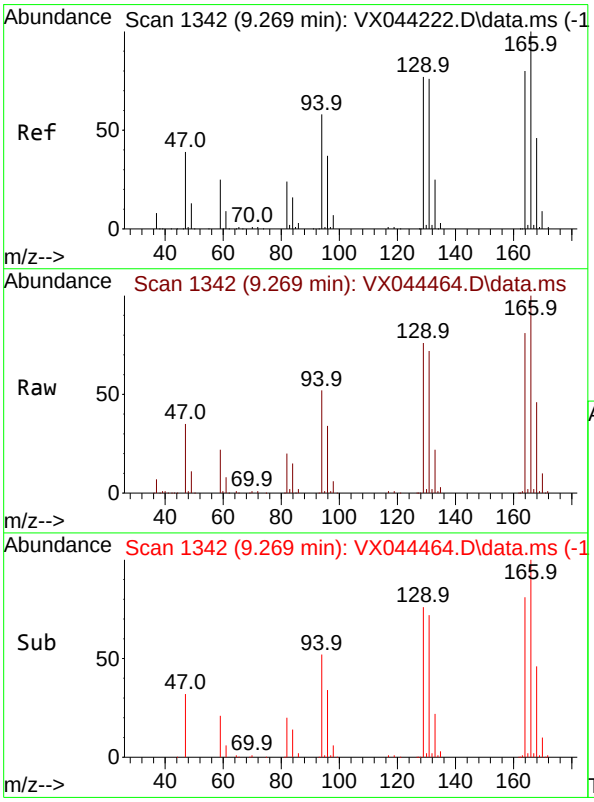
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 206477

Ion	Ratio	Lower	Upper
117	100		
82	53.0	45.8	68.8
119	33.0	25.0	37.4

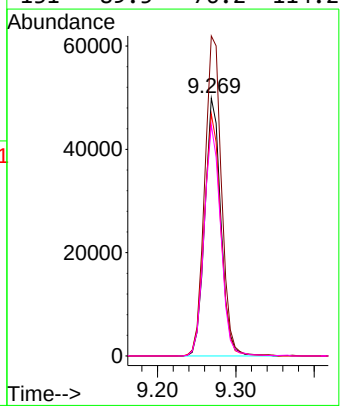


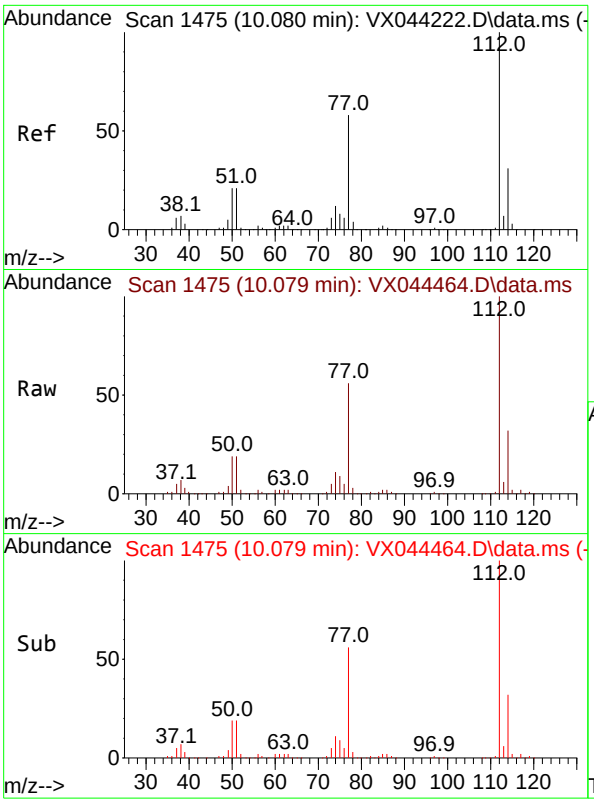


#64
Tetrachloroethene
Concen: 51.727 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:164 Resp: 70888

Ion	Ratio	Lower	Upper
164	100		
166	124.1	100.4	150.6
129	93.8	77.2	115.8
131	89.5	76.2	114.2



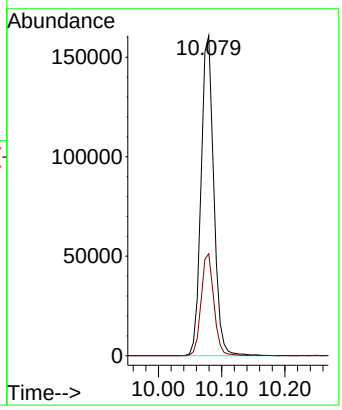


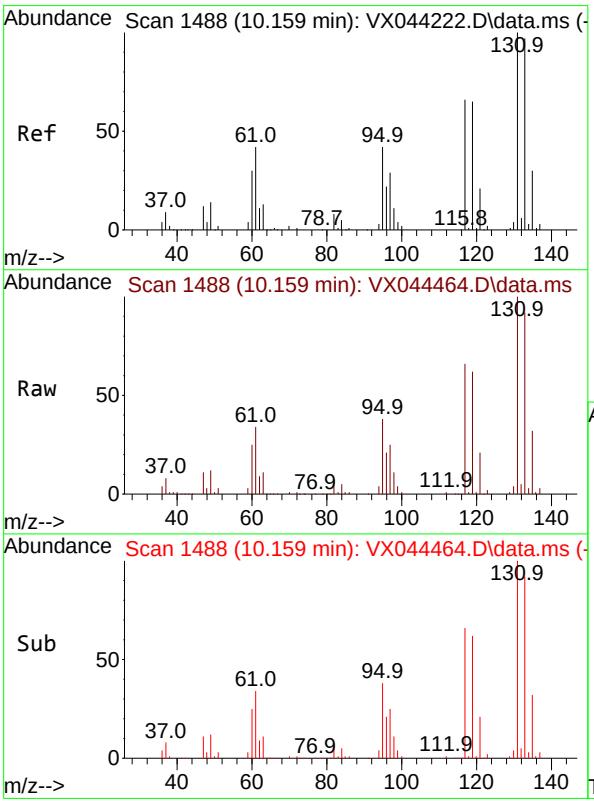
#65
Chlorobenzene
Concen: 51.056 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 225888

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.0	37.6

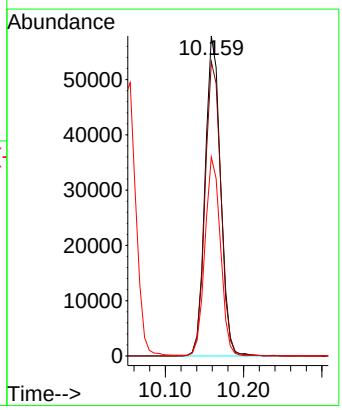


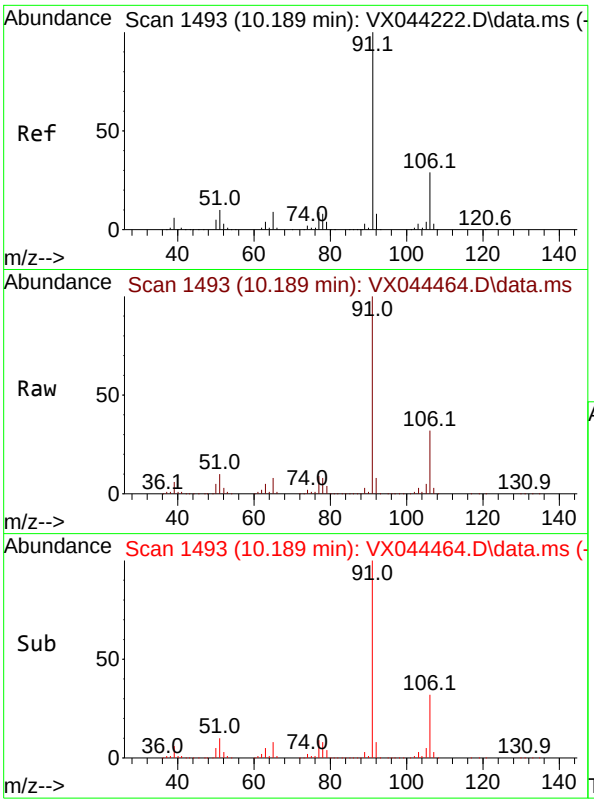


#66
1,1,1,2-Tetrachloroethane
Concen: 55.601 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:131 Resp: 79060

Ion	Ratio	Lower	Upper
131	100		
133	94.3	47.3	141.8
119	62.0	31.6	95.0



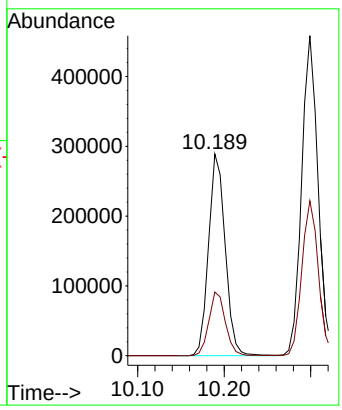


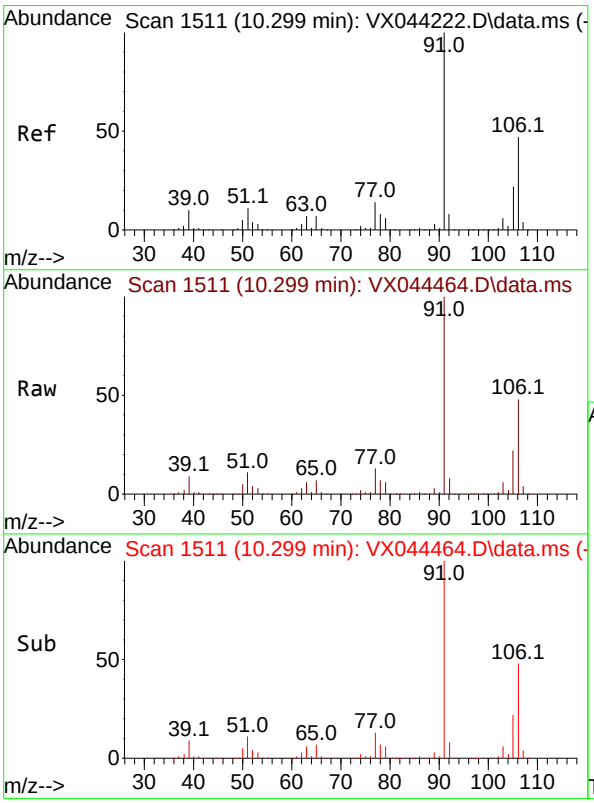
#67
Ethyl Benzene
Concen: 50.462 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 385756

Ion	Ratio	Lower	Upper
91	100		
106	31.6	23.5	35.3

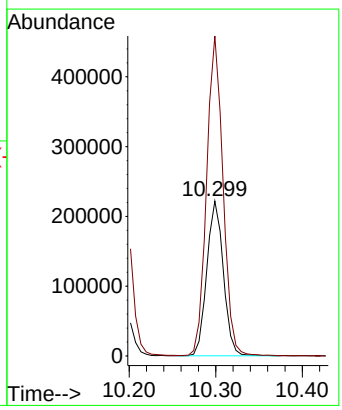


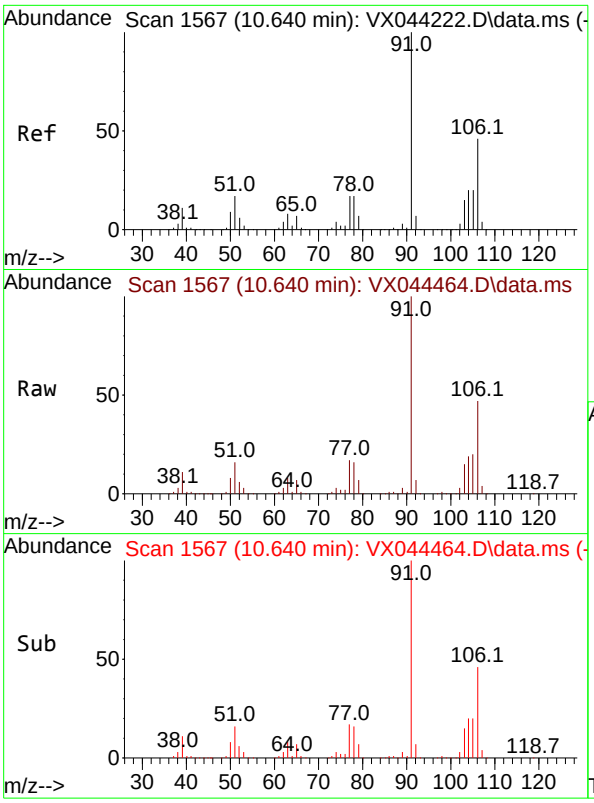


#68
m/p-Xylenes
Concen: 105.028 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:106 Resp: 294612

Ion	Ratio	Lower	Upper
106	100		
91	205.2	170.2	255.2



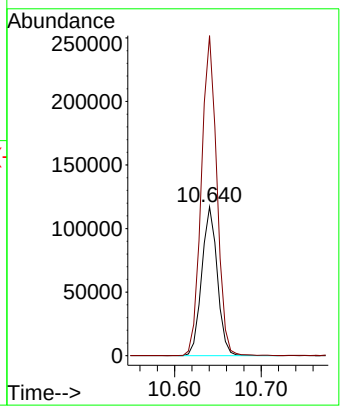


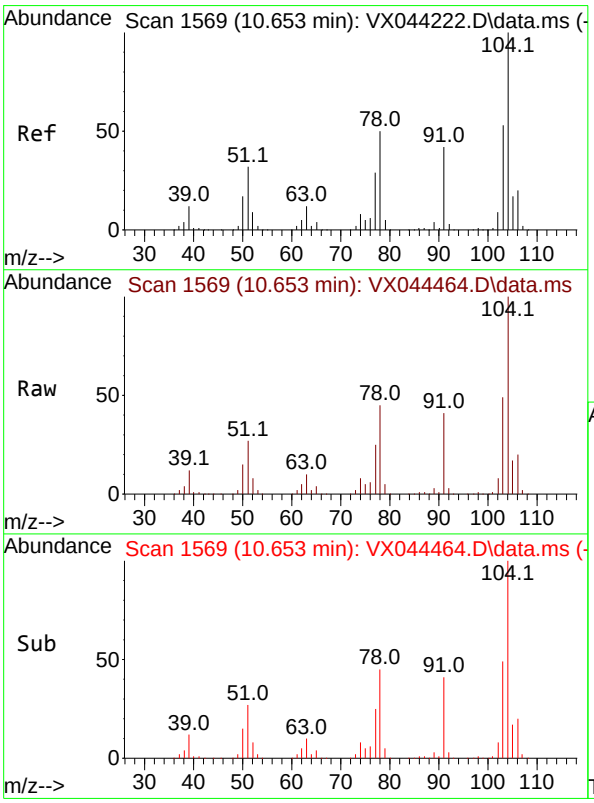
#69
o-Xylene
Concen: 51.494 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 146149

Ion	Ratio	Lower	Upper
106	100		
91	213.9	112.3	337.0

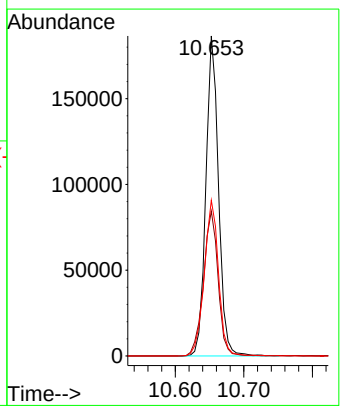


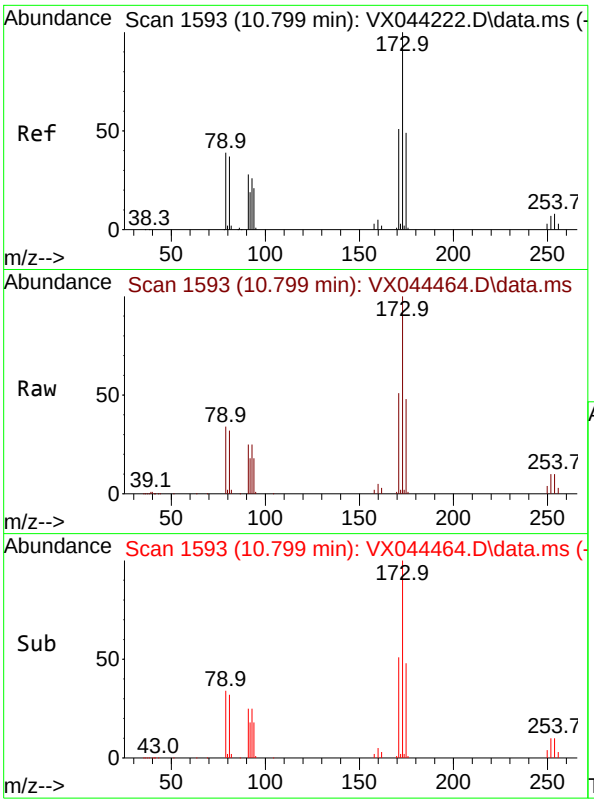


#70
Styrene
Concen: 52.761 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:104 Resp: 240058

Ion	Ratio	Lower	Upper
104	100		
78	52.3	44.6	67.0
103	55.0	45.4	68.0



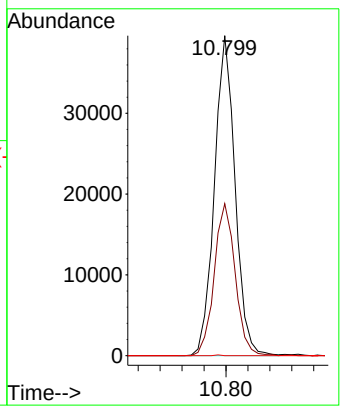


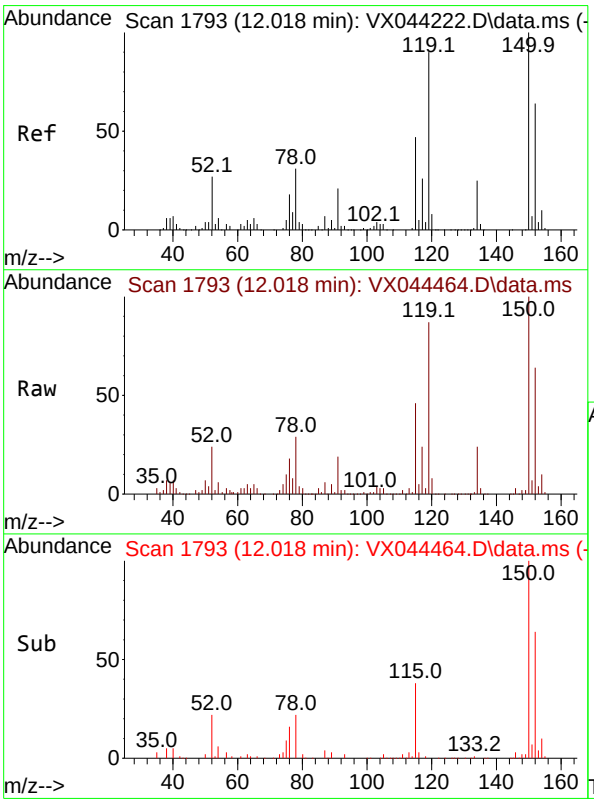
#71
Bromoform
Concen: 51.900 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 51823

Ion	Ratio	Lower	Upper
173	100		
175	48.4	23.8	71.4
254	0.1	0.0	0.0#

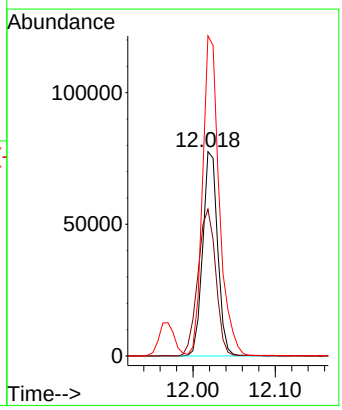


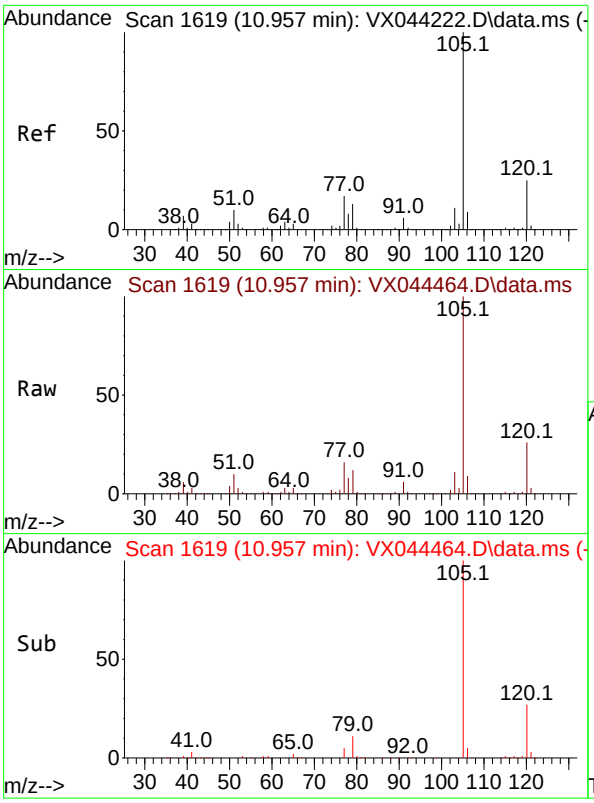


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:152 Resp: 97831

Ion	Ratio	Lower	Upper
152	100		
115	86.4	44.5	133.3
150	174.4	0.0	353.8



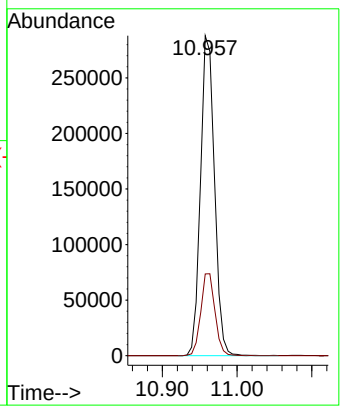


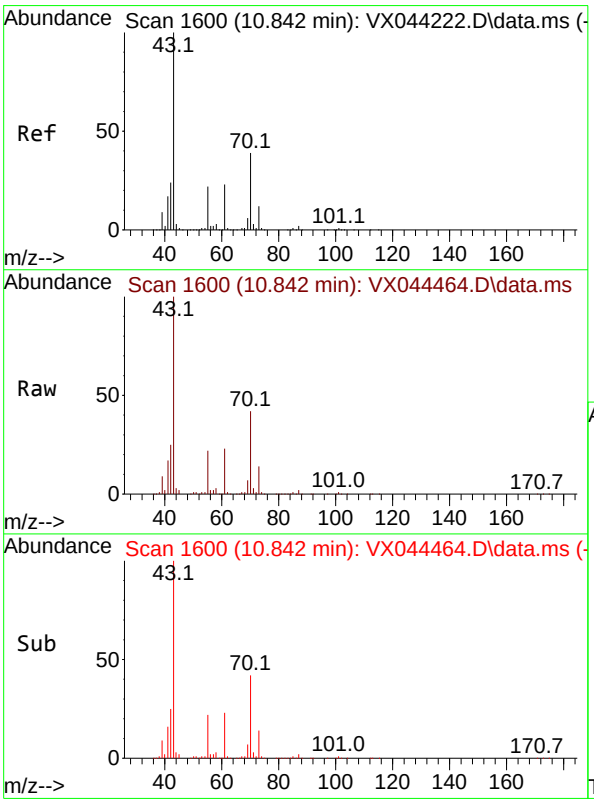
#73
Isopropylbenzene
Concen: 50.011 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 374548

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.3

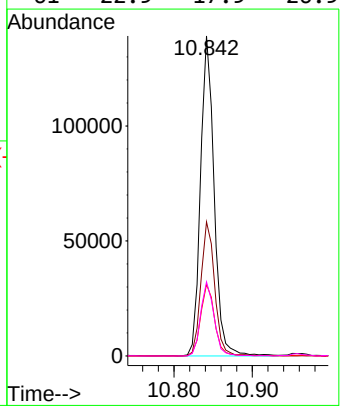


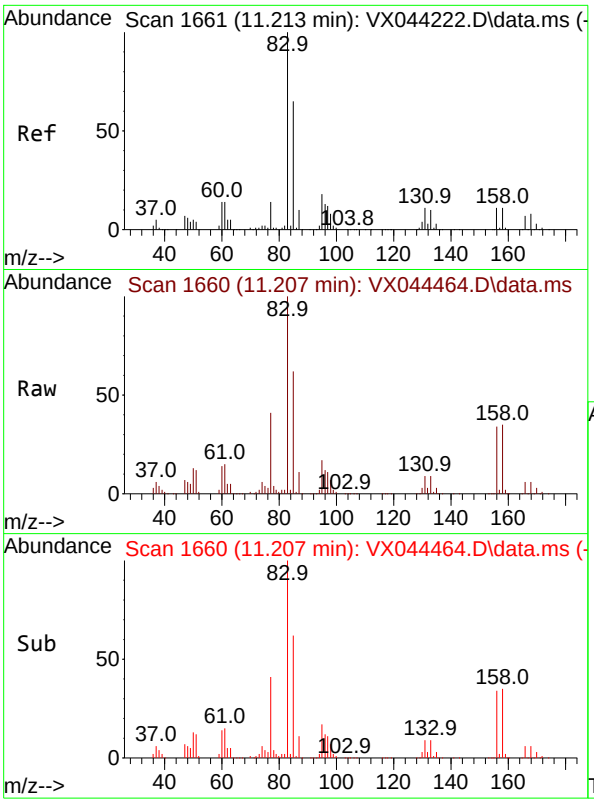


#74
N-amyl acetate
Concen: 48.576 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 168135

Ion	Ratio	Lower	Upper
43	100		
70	42.4	31.9	47.9
55	22.9	17.9	26.9
61	22.9	17.9	26.9



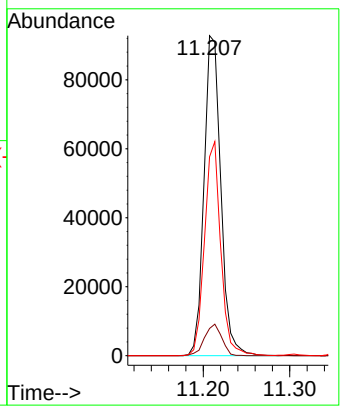


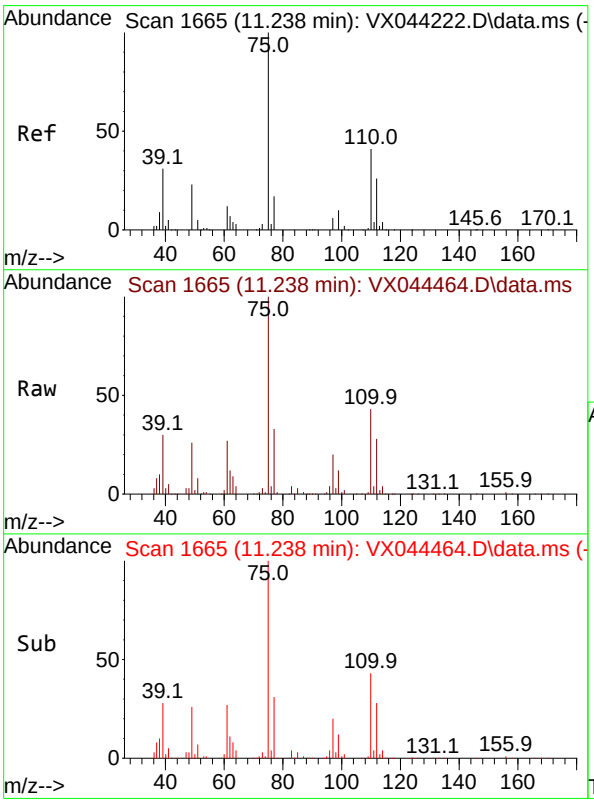
#75
1,1,2,2-Tetrachloroethane
Concen: 48.065 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 125030

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	64.6	32.5	97.4

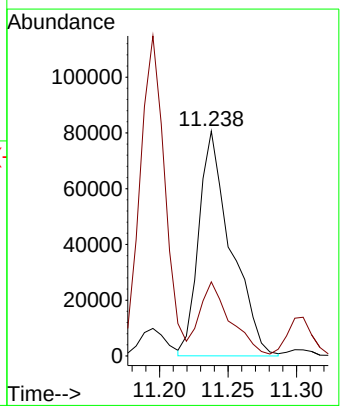


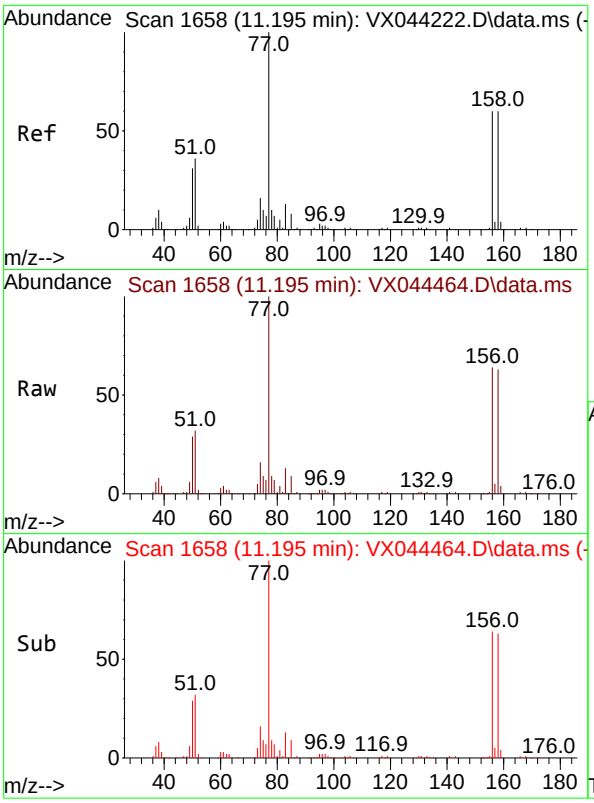


#76
1,2,3-Trichloropropane
Concen: 60.417 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 131971

Ion	Ratio	Lower	Upper
75	100		
77	31.7	20.9	62.7



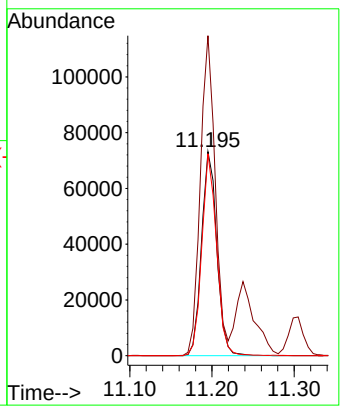


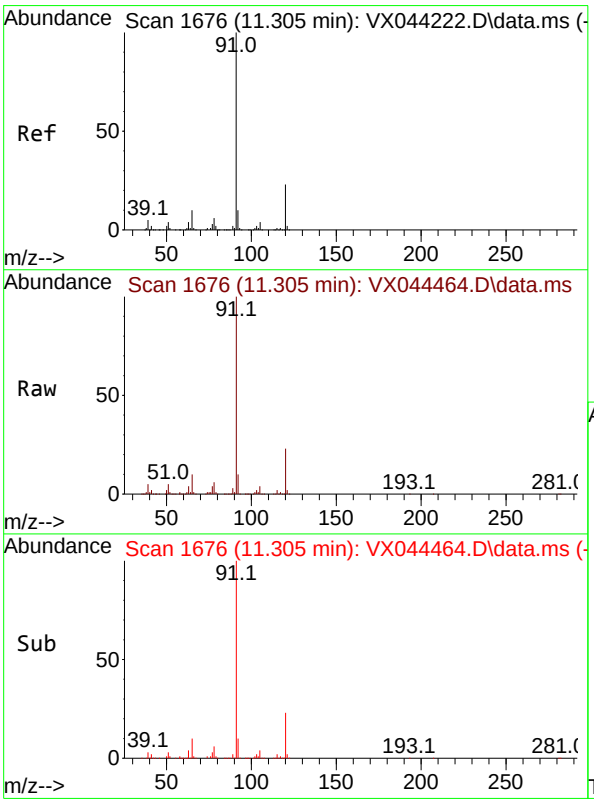
#77
Bromobenzene
Concen: 51.903 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 94262

Ion	Ratio	Lower	Upper
156	100		
77	153.3	82.6	247.8
158	95.8	48.8	146.4

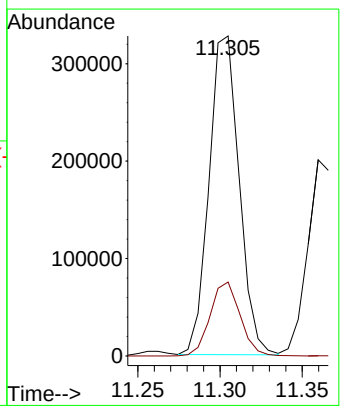


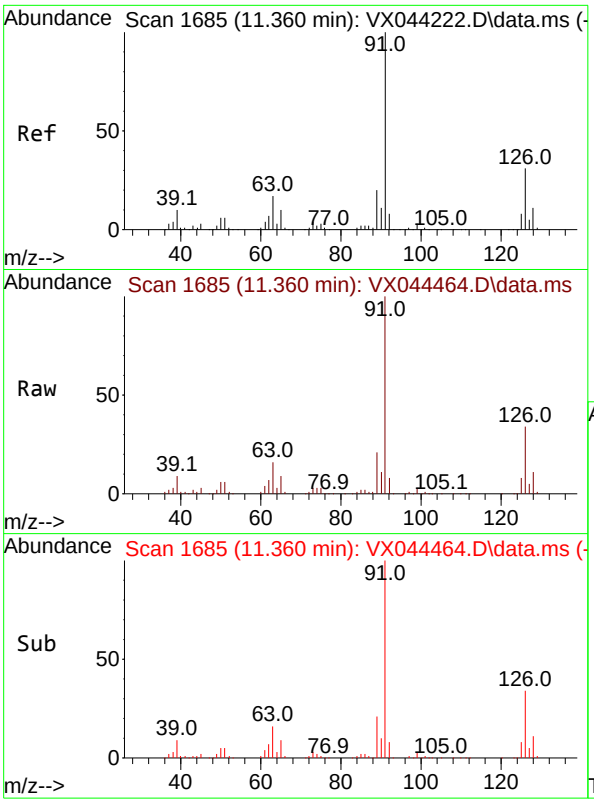


#78
n-propylbenzene
Concen: 50.432 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 91 Resp: 417465

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.0	33.0



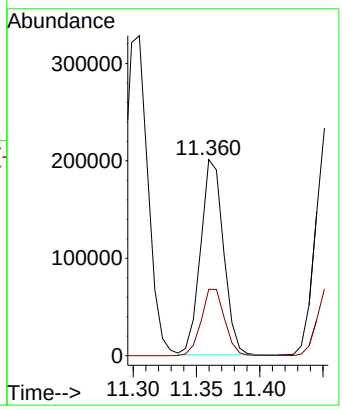


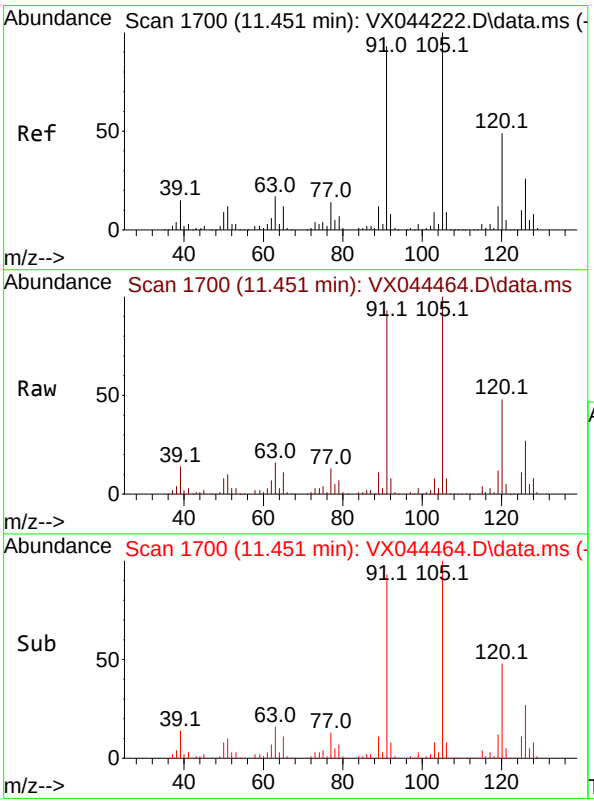
#79
2-Chlorotoluene
Concen: 47.285 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 253139

Ion	Ratio	Lower	Upper
91	100		
126	34.9	16.4	49.1

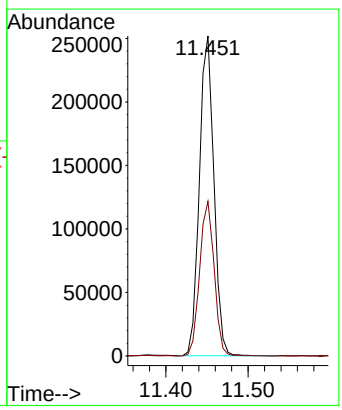


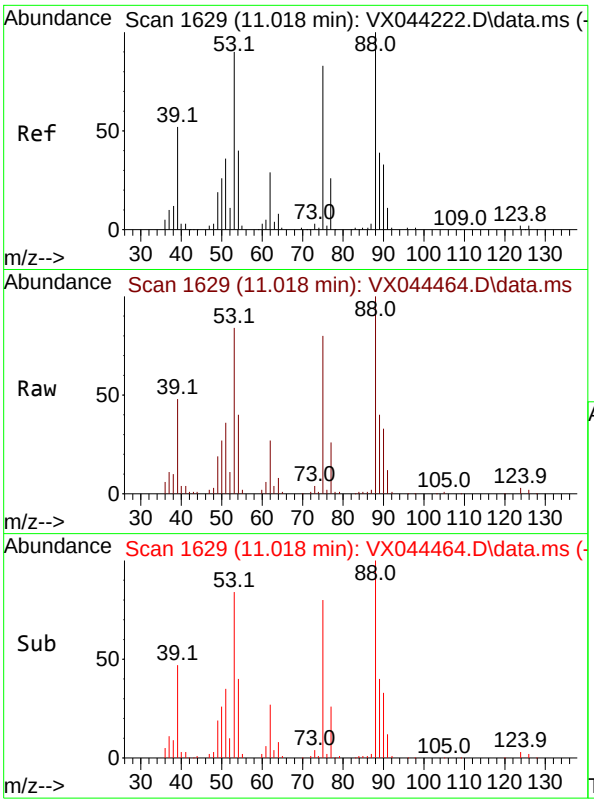


#80
1,3,5-Trimethylbenzene
Concen: 49.787 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:105 Resp: 309218

Ion	Ratio	Lower	Upper
105	100		
120	48.4	23.8	71.4



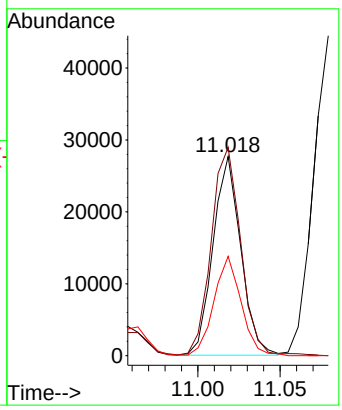


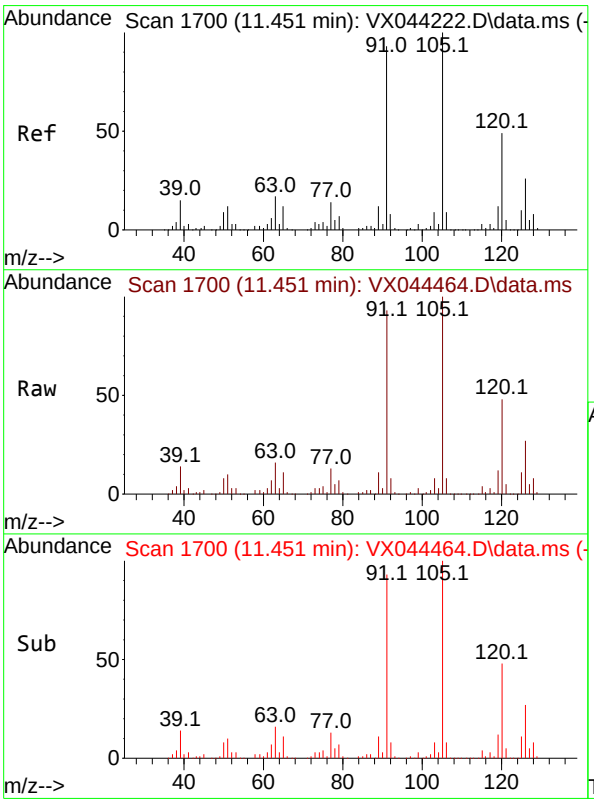
#81
trans-1,4-Dichloro-2-butene
Concen: 43.348 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 32407

Ion	Ratio	Lower	Upper
75	100		
53	111.6	93.6	140.4
89	49.1	37.3	55.9

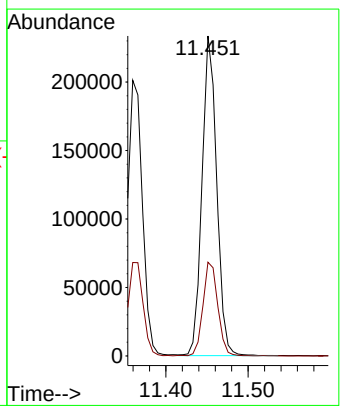


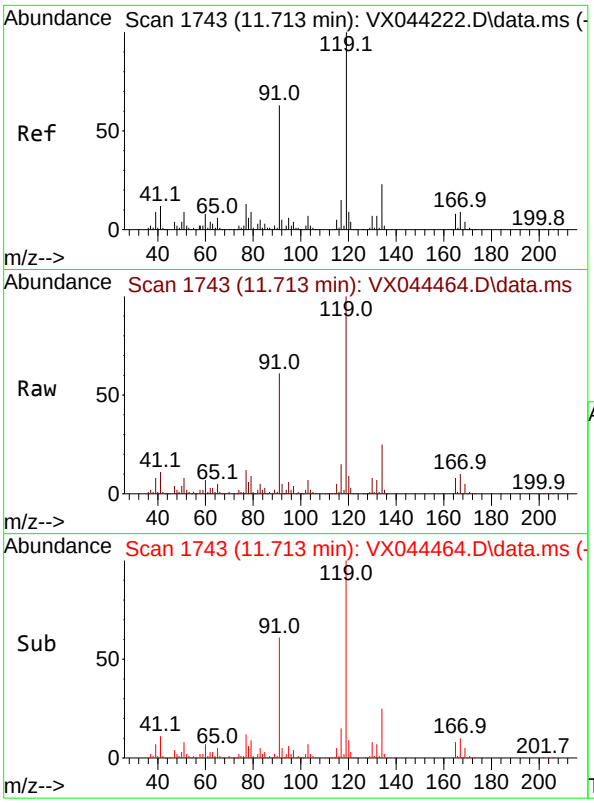


#82
4-Chlorotoluene
Concen: 48.802 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 91 Resp: 289306

Ion	Ratio	Lower	Upper
91	100		
126	29.8	14.5	43.5



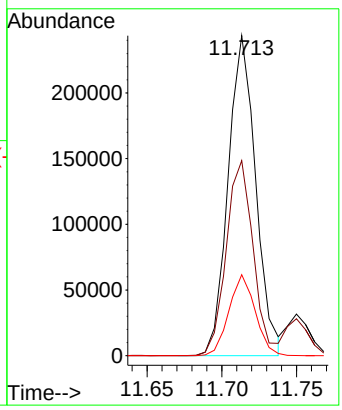


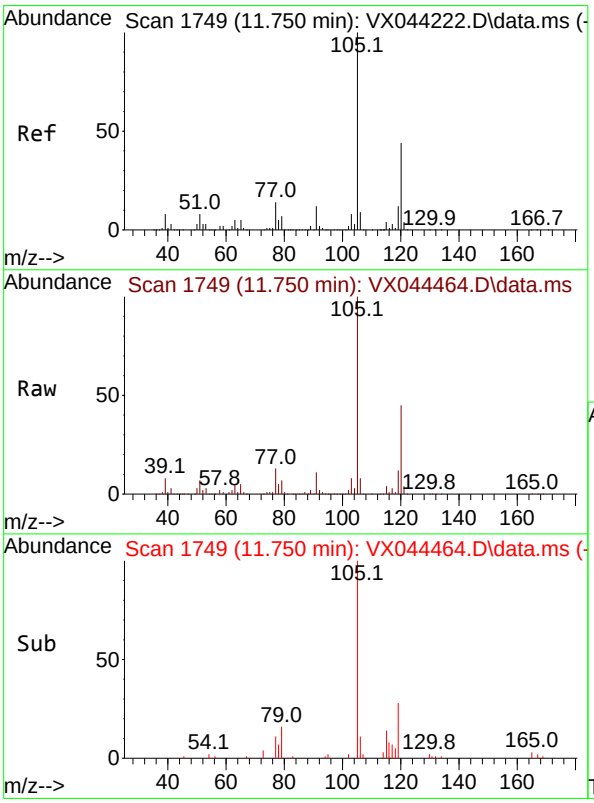
#83
tert-Butylbenzene
Concen: 50.950 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 312731

Ion	Ratio	Lower	Upper
119	100		
91	59.8	30.9	92.5
134	24.1	11.5	34.4

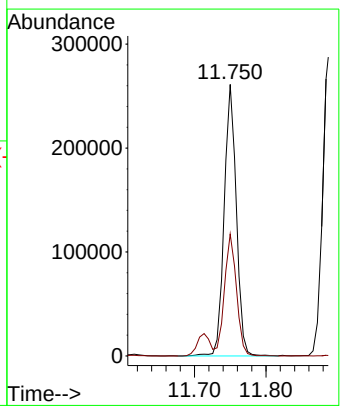


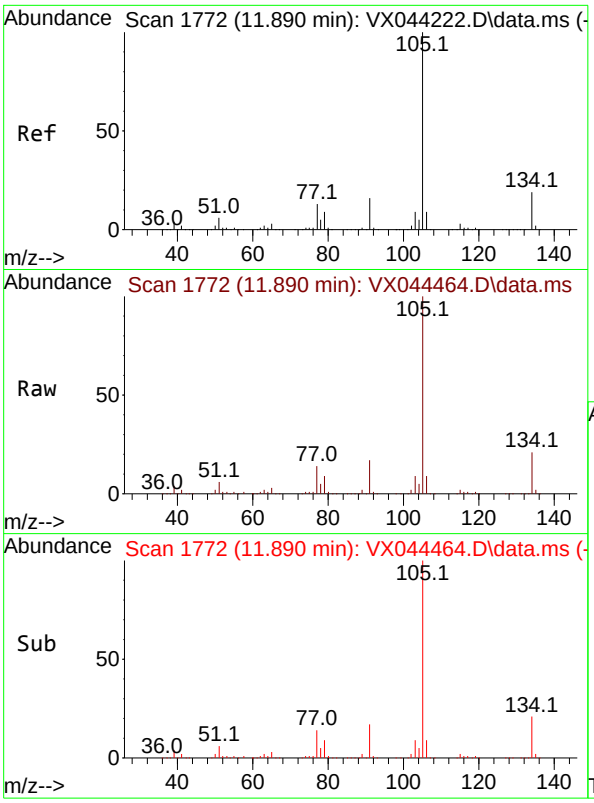


#84
1,2,4-Trimethylbenzene
Concen: 50.564 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:105 Resp: 308415

Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.7	65.1



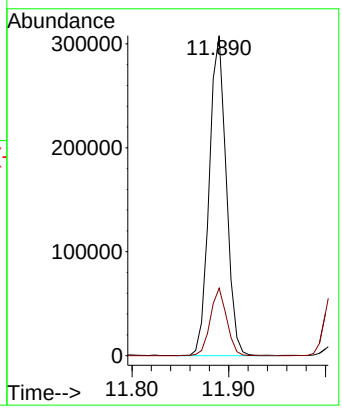


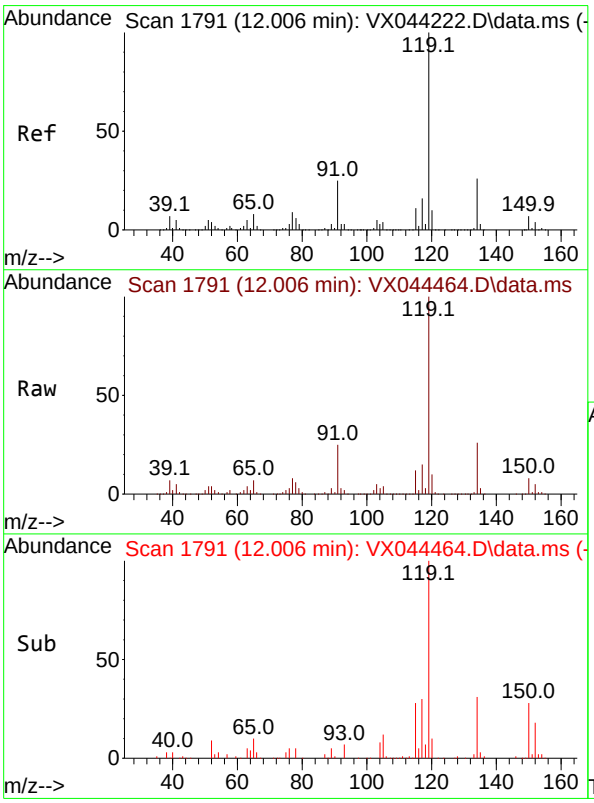
#85
sec-Butylbenzene
Concen: 50.546 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 376639

Ion	Ratio	Lower	Upper
105	100		
134	20.2	9.8	29.4

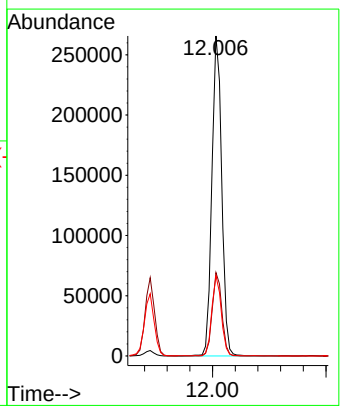


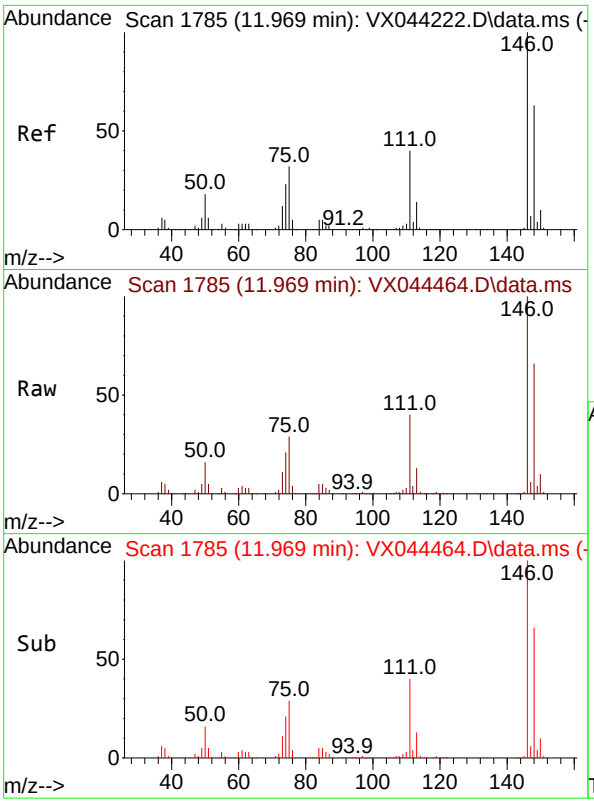


#86
p-Isopropyltoluene
Concen: 51.504 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:119 Resp: 319422

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.4
91	24.1	13.0	39.0



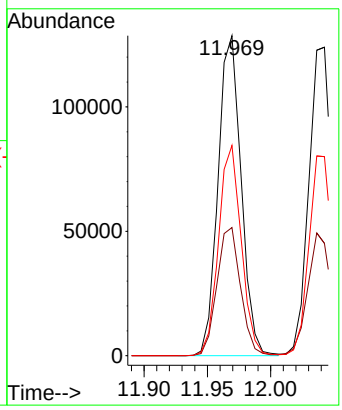


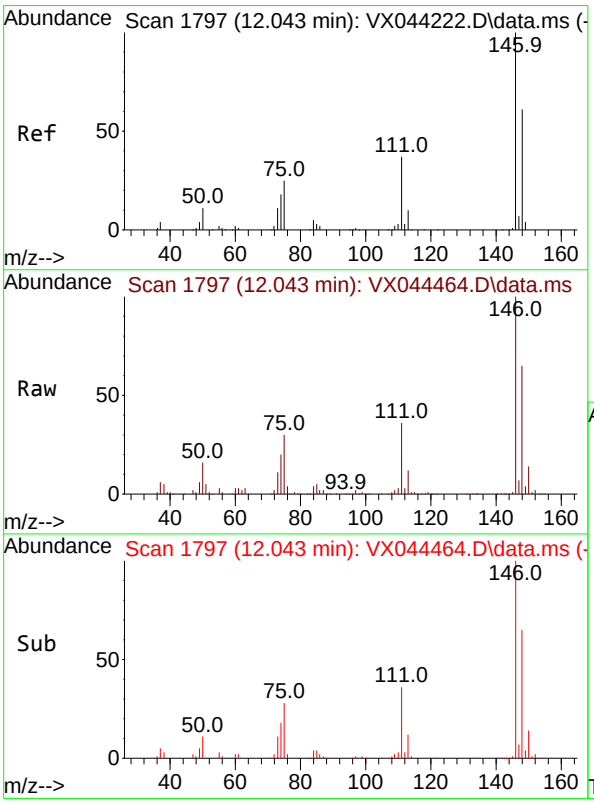
#87
1,3-Dichlorobenzene
Concen: 51.480 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 163311

Ion	Ratio	Lower	Upper
146	100		
111	40.9	21.4	64.2
148	64.7	31.7	95.1

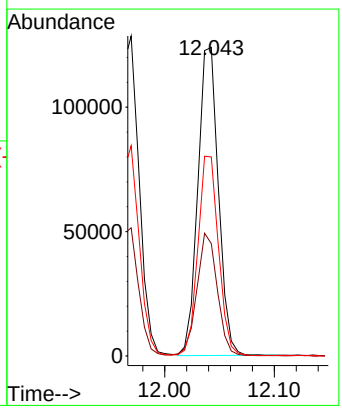


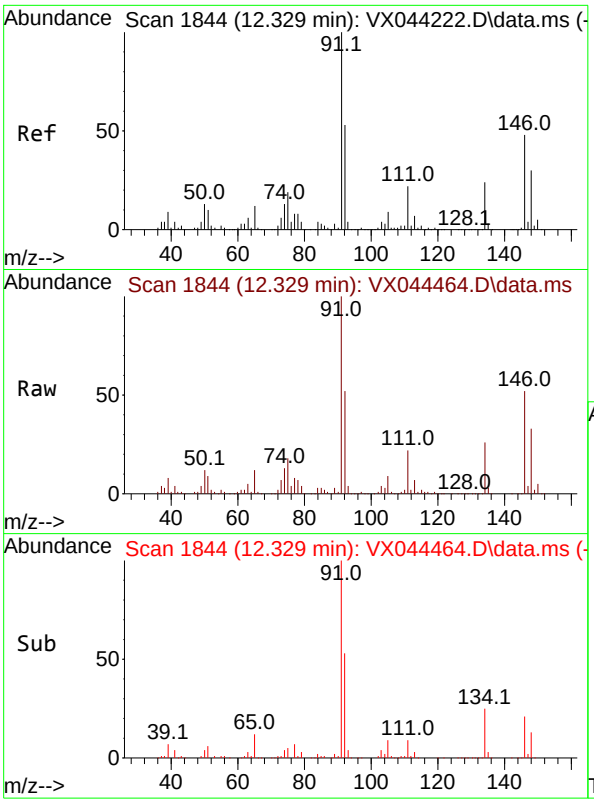


#88
1,4-Dichlorobenzene
Concen: 49.579 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:146 Resp: 161681

Ion	Ratio	Lower	Upper
146	100		
111	39.8	21.0	63.0
148	65.1	32.3	96.8



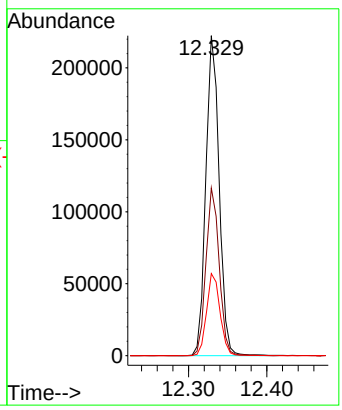


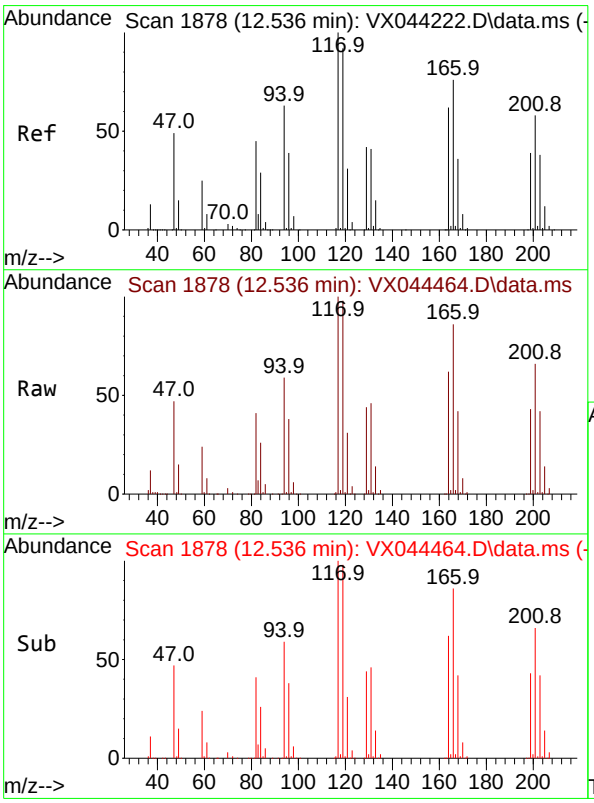
#89
n-Butylbenzene
Concen: 50.212 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 261860

Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.6	79.7
134	26.0	12.6	37.8

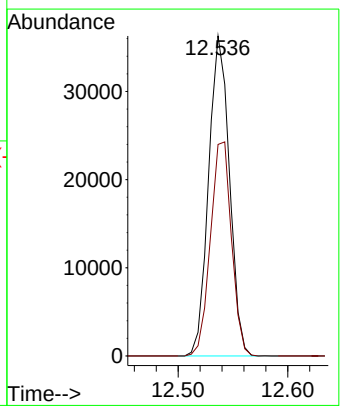


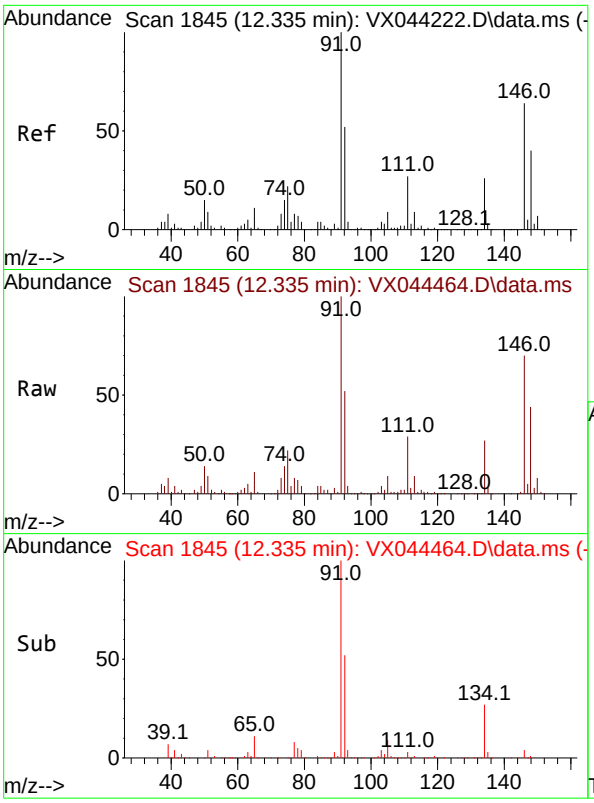


#90
Hexachloroethane
Concen: 52.940 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:117 Resp: 47928

Ion	Ratio	Lower	Upper
117	100		
201	67.8	31.4	94.2



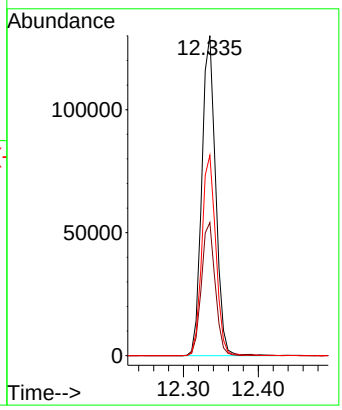


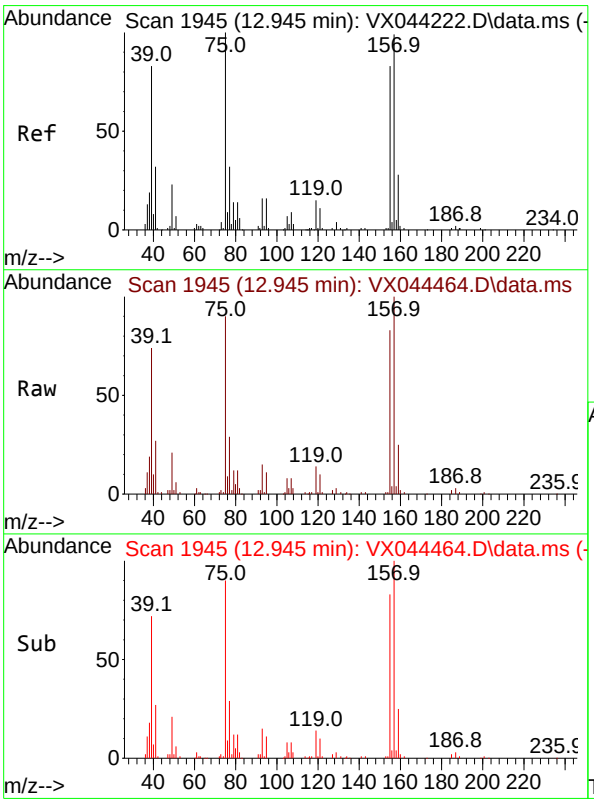
#91
1,2-Dichlorobenzene
Concen: 50.764 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 167214

Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.4	64.3
148	63.1	31.6	95.0

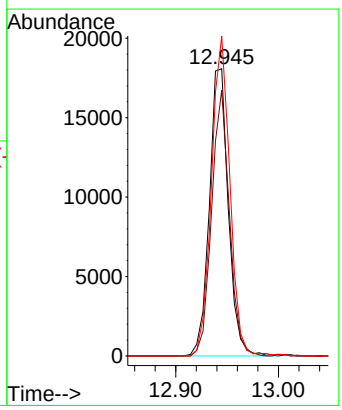


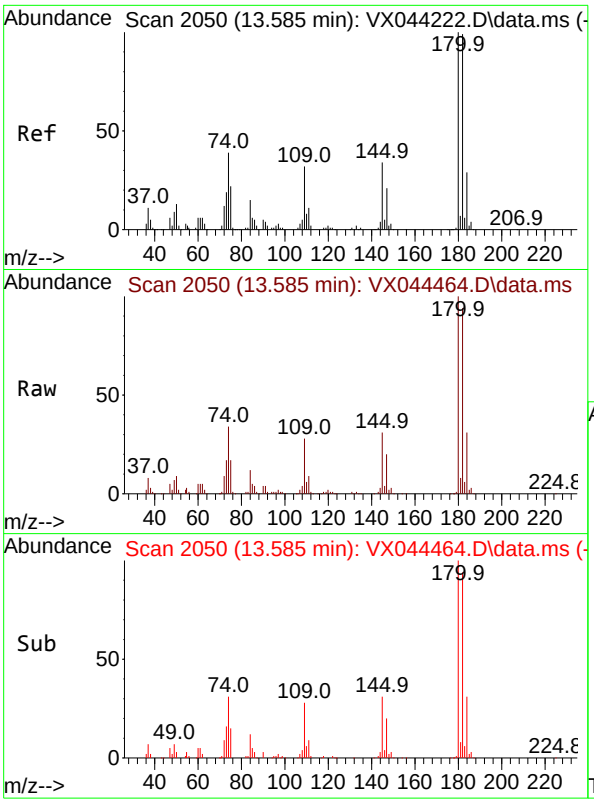


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.042 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 23250

Ion	Ratio	Lower	Upper
75	100		
155	86.4	38.1	114.3
157	107.8	47.2	141.6



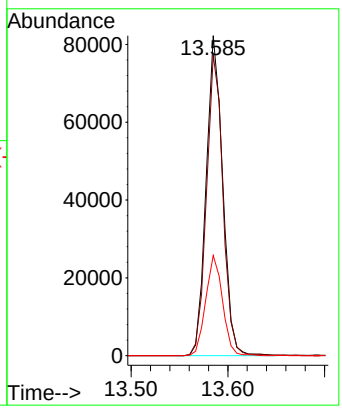


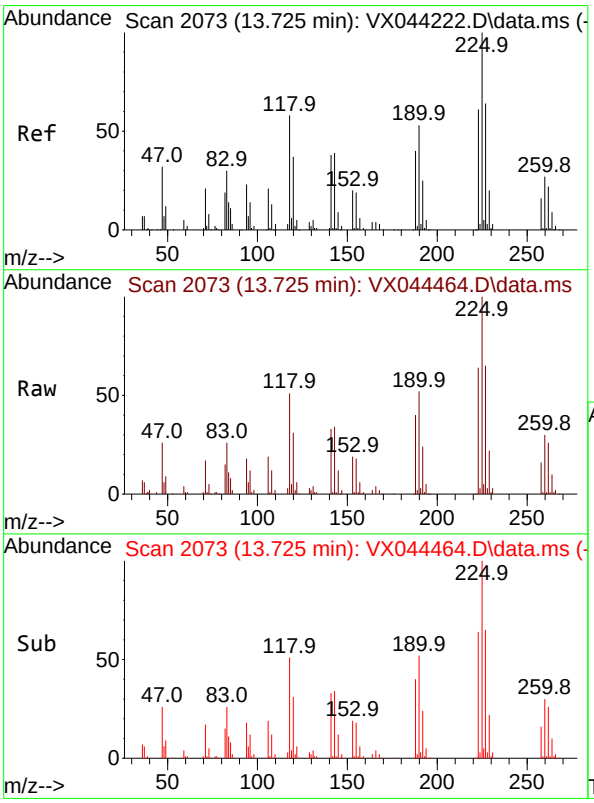
#93
1,2,4-Trichlorobenzene
Concen: 54.188 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 97858

Ion	Ratio	Lower	Upper
180	100		
182	93.8	48.0	144.2
145	31.9	16.6	49.7

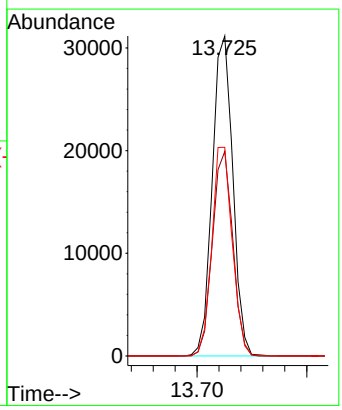


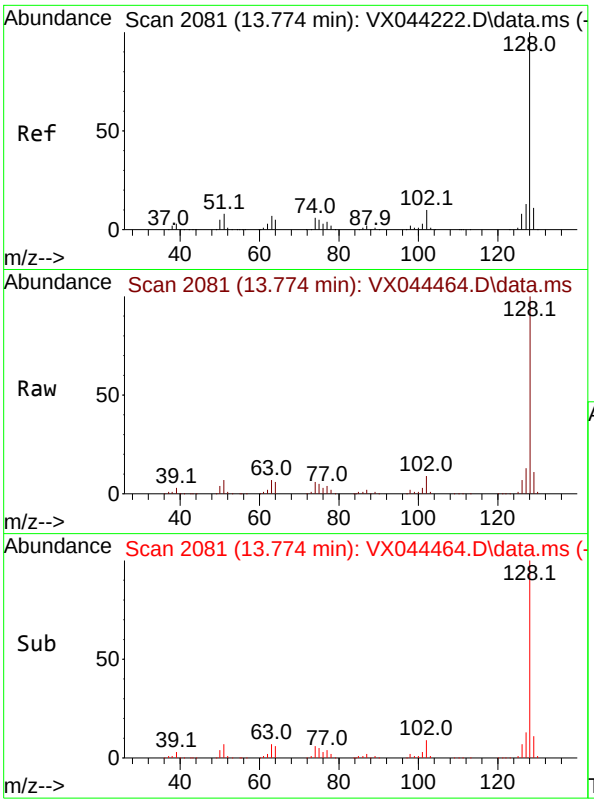


#94
Hexachlorobutadiene
Concen: 55.763 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:225 Resp: 40506

Ion	Ratio	Lower	Upper
225	100		
223	63.3	30.8	92.4
227	65.0	32.1	96.3



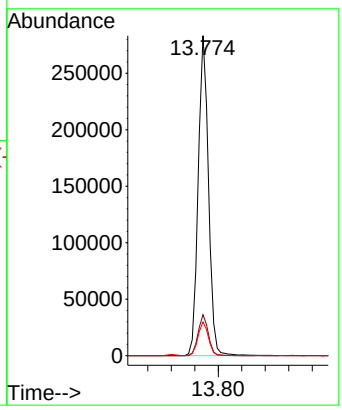


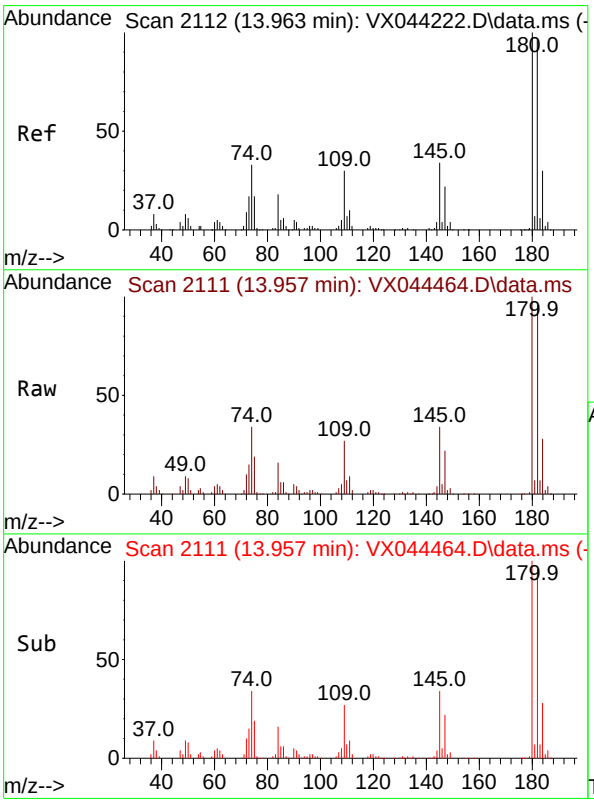
#95
Naphthalene
Concen: 48.680 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 343151

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.7	9.0	13.4





#96
1,2,3-Trichlorobenzene
Concen: 52.939 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:180 Resp: 101400

Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.0	144.0
145	31.9	17.7	53.1