

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 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

LAB CHRONICLE

OrderID:	Q1405	OrderDate:	2/21/2025 11:42:00 AM
Client:	TechLaw Consultants, Inc	Project:	REAC Commodore
Contact:	Jonathan Dziekan	Location:	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1405-01	MW-01-021325	Water	VOC-TCLVOA-10	8260-Low	02/13/25		02/21/25	02/21/25
Q1405-02	MW-04-021325	Water	VOC-TCLVOA-10	8260-Low	02/13/25		02/21/25	02/21/25
Q1405-02DL	MW-04-021325DL	Water	VOC-TCLVOA-10	8260-Low	02/13/25		02/24/25	02/21/25
Q1405-03	MW-20D-021325	Water	VOC-TCLVOA-10	8260-Low	02/13/25		02/24/25	02/21/25
Q1405-04	MW-20D-FD-021325	Water	VOC-TCLVOA-10	8260-Low	02/13/25		02/24/25	02/21/25
Q1405-05	MW-22-021925	Water	VOC-TCLVOA-10	8260-Low	02/19/25		02/24/25	02/21/25
Q1405-06	MW-23-021425	Water	VOC-TCLVOA-10	8260-Low	02/14/25		02/22/25	02/21/25
Q1405-07	MW-26-021825	Water	VOC-TCLVOA-10	8260-Low	02/18/25		02/24/25	02/21/25
Q1405-08	MW-11R-021325	Water	VOC-TCLVOA-10	8260-Low	02/13/25		02/24/25	02/21/25
Q1405-09	MW-13-021925	Water	VOC-TCLVOA-10	8260-Low	02/19/25		02/24/25	02/21/25
Q1405-10	MW-30S-021825	Water	VOC-TCLVOA-10	8260-Low	02/18/25		02/24/25	02/21/25
Q1405-11	TB-02-021325	Water			02/13/25			02/21/25

LAB CHRONICLE

VOC-TCLVOA-10

8260-Low

02/24/25

Hit Summary Sheet SW-846

SDG No.: Q1405

Client: TechLaw Consultants, Inc

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	MW-01-021325							
Q1405-01	MW-01-021325	Water	Chloromethane	0.38	J	0.35	1.00	ug/L
Q1405-01	MW-01-021325	Water	Acetone	2.50	J	1.40	5.00	ug/L
Q1405-01	MW-01-021325	Water	Methyl Acetate	0.75	J	0.60	1.00	ug/L
Q1405-01	MW-01-021325	Water	cis-1,2-Dichloroethene	11.7		0.25	1.00	ug/L
Q1405-01	MW-01-021325	Water	Trichloroethene	5.70		0.32	1.00	ug/L
			Total Voc :			21.0		
			Total Concentration:			21.0		
Client ID:	MW-04-021325							
Q1405-02	MW-04-021325	Water	Vinyl Chloride	1.20		0.34	1.00	ug/L
Q1405-02	MW-04-021325	Water	1,1-Dichloroethene	60.2		0.26	1.00	ug/L
Q1405-02	MW-04-021325	Water	trans-1,2-Dichloroethene	13.3		0.25	1.00	ug/L
Q1405-02	MW-04-021325	Water	1,1-Dichloroethane	7.70		0.23	1.00	ug/L
Q1405-02	MW-04-021325	Water	cis-1,2-Dichloroethene	1700	E	0.25	1.00	ug/L
Q1405-02	MW-04-021325	Water	Chloroform	0.94	J	0.26	1.00	ug/L
Q1405-02	MW-04-021325	Water	1,1,1-Trichloroethane	13.6		0.19	1.00	ug/L
Q1405-02	MW-04-021325	Water	Benzene	0.78	J	0.16	1.00	ug/L
Q1405-02	MW-04-021325	Water	Trichloroethene	6200	E	0.32	1.00	ug/L
Q1405-02	MW-04-021325	Water	Tetrachloroethene	4.10		0.25	1.00	ug/L
			Total Voc :			8000		
Q1405-02	MW-04-021325	Water	2-Chlorotoluene	* 7.50	J	0.16	1.00	ug/L
Q1405-02	MW-04-021325	Water	1,4-Dioxane	* 24.7	J	6.50	100	ug/L
			Total Tics :			32.2		
			Total Concentration:			8030		
Client ID:	MW-04-021325DL							
Q1405-02DL	MW-04-021325DL	Water	cis-1,2-Dichloroethene	1600	D	62.5	250	ug/L
Q1405-02DL	MW-04-021325DL	Water	Trichloroethene	8200	D	80.0	250	ug/L
			Total Voc :			9800		
			Total Concentration:			9800		
Client ID:	MW-20D-021325							
Q1405-03	MW-20D-021325	Water	cis-1,2-Dichloroethene	1.60		0.25	1.00	ug/L
Q1405-03	MW-20D-021325	Water	Trichloroethene	3.30		0.32	1.00	ug/L
Q1405-03	MW-20D-021325	Water	Tetrachloroethene	0.97	J	0.25	1.00	ug/L
			Total Voc :			5.87		
			Total Concentration:			5.87		
Client ID:	MW-20D-FD-021325							
Q1405-04	MW-20D-FD-021325	Water	1,1,2-Trichlorotrifluoroethane	1.00		0.25	1.00	ug/L
Q1405-04	MW-20D-FD-021325	Water	cis-1,2-Dichloroethene	1.60		0.25	1.00	ug/L

Hit Summary Sheet
SW-846

SDG No.: Q1405

Client: TechLaw Consultants, Inc

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1405-04	MW-20D-FD-0213	Water	Trichloroethene	3.20		0.32	1.00	ug/L
Q1405-04	MW-20D-FD-0213	Water	Tetrachloroethene	0.91	J	0.25	1.00	ug/L
Total Voc :				6.71				
Total Concentration:				6.71				
Client ID:	MW-22-021925							
Q1405-05	MW-22-021925	Water	Carbon Tetrachloride	2.00		0.25	1.00	ug/L
Q1405-05	MW-22-021925	Water	Chloroform	1.30		0.26	1.00	ug/L
Total Voc :				3.30				
Total Concentration:				3.30				
Client ID:	MW-23-021425							
Q1405-06	MW-23-021425	Water	1,1,2-Trichlorotrifluoroethane	3.90		0.25	1.00	ug/L
Q1405-06	MW-23-021425	Water	1,1-Dichloroethene	0.35	J	0.26	1.00	ug/L
Q1405-06	MW-23-021425	Water	Trichloroethene	4.20		0.32	1.00	ug/L
Total Voc :				8.45				
Total Concentration:				8.45				
Client ID:	MW-26-021825							
Q1405-07	MW-26-021825	Water	Chloroform	1.20		0.26	1.00	ug/L
Total Voc :				1.20				
Total Concentration:				1.20				
Client ID:	MW-11R-021325							
Q1405-08	MW-11R-021325	Water	1,1,2-Trichlorotrifluoroethane	2.00		0.25	1.00	ug/L
Q1405-08	MW-11R-021325	Water	1,1-Dichloroethene	1.10		0.26	1.00	ug/L
Q1405-08	MW-11R-021325	Water	cis-1,2-Dichloroethene	5.60		0.25	1.00	ug/L
Q1405-08	MW-11R-021325	Water	Trichloroethene	6.40		0.32	1.00	ug/L
Q1405-08	MW-11R-021325	Water	Tetrachloroethene	6.30		0.25	1.00	ug/L
Total Voc :				21.4				
Total Concentration:				21.4				
Client ID:	MW-13-021925							
Q1405-09	MW-13-021925	Water	Trichlorofluoromethane	2.80		0.34	1.00	ug/L
Q1405-09	MW-13-021925	Water	cis-1,2-Dichloroethene	0.78	J	0.25	1.00	ug/L
Q1405-09	MW-13-021925	Water	Trichloroethene	1.40		0.32	1.00	ug/L
Q1405-09	MW-13-021925	Water	Tetrachloroethene	2.30		0.25	1.00	ug/L
Total Voc :				7.28				
Total Concentration:				7.28				
Client ID:	MW-30S-021825							
Q1405-10	MW-30S-021825	Water	1,1-Dichloroethene	1.10		0.26	1.00	ug/L
Q1405-10	MW-30S-021825	Water	cis-1,2-Dichloroethene	4.00		0.25	1.00	ug/L
Q1405-10	MW-30S-021825	Water	Trichloroethene	13.1		0.32	1.00	ug/L
Total Voc :				18.2				
Total Concentration:				18.2				

Hit Summary Sheet
SW-846

SDG No.: Q1405

Client: TechLaw Consultants, Inc

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units



QC SUMMARY

Surrogate Summary

SDG No.: **Q1405**

Client: **TechLaw Consultants, Inc**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1405-01	MW-01-021325	1,2-Dichloroethane-d4	50	58.5	117	74	125
		Dibromofluoromethane	50	53.5	107	75	124
		Toluene-d8	50	49.9	100	86	113
		4-Bromofluorobenzene	50	44.4	89	77	121
Q1405-02	MW-04-021325	1,2-Dichloroethane-d4	50	52.0	104	74	125
		Dibromofluoromethane	50	52.4	105	75	124
		Toluene-d8	50	50.0	100	86	113
		4-Bromofluorobenzene	50	45.8	92	77	121
Q1405-02DL	MW-04-021325DL	1,2-Dichloroethane-d4	50	55.1	110	74	125
		Dibromofluoromethane	50	52.1	104	75	124
		Toluene-d8	50	47.5	95	86	113
		4-Bromofluorobenzene	50	40.3	81	77	121
Q1405-03	MW-20D-021325	1,2-Dichloroethane-d4	50	56.7	113	74	125
		Dibromofluoromethane	50	52.8	105	75	124
		Toluene-d8	50	48.0	96	86	113
		4-Bromofluorobenzene	50	43.6	87	77	121
Q1405-04	MW-20D-FD-021325	1,2-Dichloroethane-d4	50	59.6	119	74	125
		Dibromofluoromethane	50	52.9	106	75	124
		Toluene-d8	50	48.2	96	86	113
		4-Bromofluorobenzene	50	42.7	85	77	121
Q1405-05	MW-22-021925	1,2-Dichloroethane-d4	50	59.8	120	74	125
		Dibromofluoromethane	50	54.5	109	75	124
		Toluene-d8	50	49.1	98	86	113
		4-Bromofluorobenzene	50	41.0	82	77	121
Q1405-06	MW-23-021425	1,2-Dichloroethane-d4	50	57.9	116	74	125
		Dibromofluoromethane	50	53.3	107	75	124
		Toluene-d8	50	49.8	100	86	113
		4-Bromofluorobenzene	50	45.2	90	77	121
Q1405-07	MW-26-021825	1,2-Dichloroethane-d4	50	62.2	124	74	125
		Dibromofluoromethane	50	56.8	114	75	124
		Toluene-d8	50	50.0	100	86	113
		4-Bromofluorobenzene	50	44.4	89	77	121
Q1405-08	MW-11R-021325	1,2-Dichloroethane-d4	50	60.7	121	74	125
		Dibromofluoromethane	50	55.0	110	75	124
		Toluene-d8	50	49.7	99	86	113
		4-Bromofluorobenzene	50	44.1	88	77	121
Q1405-09	MW-13-021925	1,2-Dichloroethane-d4	50	61.5	123	74	125
		Dibromofluoromethane	50	55.7	111	75	124
		Toluene-d8	50	49.9	100	86	113
		4-Bromofluorobenzene	50	41.5	83	77	121
Q1405-10	MW-30S-021825	1,2-Dichloroethane-d4	50	61.0	122	74	125
		Dibromofluoromethane	50	55.2	110	75	124
		Toluene-d8	50	49.4	99	86	113
		4-Bromofluorobenzene	50	42.5	85	77	121
Q1405-11	TB-02-021325	1,2-Dichloroethane-d4	50	61.3	123	74	125
		Dibromofluoromethane	50	54.9	110	75	124
		Toluene-d8	50	50.1	100	86	113
		4-Bromofluorobenzene	50	44.6	89	77	121
VN0221WBL01	VN0221WBL01	1,2-Dichloroethane-d4	50	60.2	120	74	125
		Dibromofluoromethane	50	57.2	114	75	124

Surrogate Summary

SDG No.: Q1405

Client: TechLaw Consultants, Inc

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
VN0221WBL01	VN0221WBL01	Toluene-d8	50	50.6	101	86	113
		4-Bromofluorobenzene	50	44.3	89	77	121
VN0221WBS01	VN0221WBS01	1,2-Dichloroethane-d4	50	52.4	105	74	125
		Dibromofluoromethane	50	54.6	109	75	124
		Toluene-d8	50	55.9	112	86	113
		4-Bromofluorobenzene	50	55.6	111	77	121
VN0221WBSD0	VN0221WBSD01	1,2-Dichloroethane-d4	50	53.2	106	74	125
		Dibromofluoromethane	50	54.9	110	75	124
		Toluene-d8	50	54.8	110	86	113
		4-Bromofluorobenzene	50	56.0	112	77	121
VN0224WBL01	VN0224WBL01	1,2-Dichloroethane-d4	50	60.2	120	74	125
		Dibromofluoromethane	50	54.9	110	75	124
		Toluene-d8	50	49.7	99	86	113
		4-Bromofluorobenzene	50	44.3	89	77	121
VN0224WBS01	VN0224WBS01	1,2-Dichloroethane-d4	50	48.5	97	74	125
		Dibromofluoromethane	50	48.1	96	75	124
		Toluene-d8	50	49.4	99	86	113
		4-Bromofluorobenzene	50	51.1	102	77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1405

Client: TechLaw Consultants, Inc

Analytical Method: SW8260-Low

Datafile : VN085805.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0221WBS01	Dichlorodifluoromethane	20	18.4	ug/L	92			69	116	
	Chloromethane	20	17.9	ug/L	90			65	116	
	Vinyl chloride	20	18.3	ug/L	92			65	117	
	Bromomethane	20	17.9	ug/L	90			58	125	
	Chloroethane	20	17.5	ug/L	88			56	128	
	Trichlorofluoromethane	20	17.9	ug/L	90			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.5	ug/L	98			80	112	
	1,1-Dichloroethene	20	18.0	ug/L	90			74	110	
	Acetone	100	96.0	ug/L	96			60	125	
	Carbon disulfide	20	16.7	ug/L	84			64	112	
	Methyl tert-butyl Ether	20	18.2	ug/L	91			78	114	
	Methyl Acetate	20	18.7	ug/L	94			67	125	
	Methylene Chloride	20	18.3	ug/L	92			72	114	
	trans-1,2-Dichloroethene	20	17.7	ug/L	89			75	108	
	1,1-Dichloroethane	20	18.4	ug/L	92			78	112	
	Cyclohexane	20	17.6	ug/L	88			75	110	
	2-Butanone	100	97.1	ug/L	97			65	122	
	Carbon Tetrachloride	20	18.9	ug/L	95			77	113	
	cis-1,2-Dichloroethene	20	18.0	ug/L	90			77	110	
	Bromochloromethane	20	21.3	ug/L	106			70	124	
	Chloroform	20	18.6	ug/L	93			79	113	
	1,1,1-Trichloroethane	20	18.4	ug/L	92			80	108	
	Methylcyclohexane	20	17.5	ug/L	88			72	115	
	Benzene	20	18.9	ug/L	95			82	109	
	1,2-Dichloroethane	20	19.4	ug/L	97			80	115	
	Trichloroethene	20	18.2	ug/L	91			77	113	
	1,2-Dichloropropane	20	19.1	ug/L	96			83	111	
	Bromodichloromethane	20	18.9	ug/L	95			83	110	
	4-Methyl-2-Pentanone	100	100	ug/L	100			74	118	
	Toluene	20	20.0	ug/L	100			82	110	
	t-1,3-Dichloropropene	20	19.4	ug/L	97			79	110	
	cis-1,3-Dichloropropene	20	19.1	ug/L	96			82	110	
	1,1,2-Trichloroethane	20	19.4	ug/L	97			83	112	
	2-Hexanone	100	110	ug/L	110			73	117	
	Dibromochloromethane	20	19.6	ug/L	98			82	110	
	1,2-Dibromoethane	20	19.5	ug/L	98			81	110	
	Tetrachloroethene	20	19.7	ug/L	99			67	123	
	Chlorobenzene	20	19.1	ug/L	96			82	109	
	Ethyl Benzene	20	19.2	ug/L	96			83	109	
	m/p-Xylenes	40	40.6	ug/L	102			82	110	
	o-Xylene	20	19.5	ug/L	98			83	109	
	Styrene	20	19.3	ug/L	97			80	111	
	Bromoform	20	20.4	ug/L	102			79	109	
	Isopropylbenzene	20	18.3	ug/L	92			83	112	
	1,1,2,2-Tetrachloroethane	20	18.5	ug/L	93			76	118	
	1,3-Dichlorobenzene	20	18.5	ug/L	93			82	108	
	1,4-Dichlorobenzene	20	18.1	ug/L	91			82	107	
	1,2-Dichlorobenzene	20	18.6	ug/L	93			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1405

Client: TechLaw Consultants, Inc

Analytical Method: SW8260-Low

Datafile : VN085805.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0221WBS01	1,2-Dibromo-3-Chloropropane	20	18.0	ug/L	90			68	112	
	1,2,4-Trichlorobenzene	20	16.1	ug/L	81			75	113	
	1,2,3-Trichlorobenzene	20	16.0	ug/L	80			76	114	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1405

Client: TechLaw Consultants, Inc

Analytical Method: SW8260-Low

Datafile : VN085806.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0221WBSD01	Dichlorodifluoromethane	20	19.8	ug/L	99	7		69	116	20
	Chloromethane	20	19.8	ug/L	99	10		65	116	20
	Vinyl chloride	20	19.4	ug/L	97	5		65	117	20
	Bromomethane	20	19.6	ug/L	98	9		58	125	20
	Chloroethane	20	18.6	ug/L	93	6		56	128	20
	Trichlorofluoromethane	20	19.6	ug/L	98	9		73	115	20
	1,1,2-Trichlorotrifluoroethane	20	20.0	ug/L	100	2		80	112	20
	1,1-Dichloroethene	20	19.2	ug/L	96	6		74	110	20
	Acetone	100	110	ug/L	110	14		60	125	20
	Carbon disulfide	20	18.5	ug/L	93	10		64	112	20
	Methyl tert-butyl Ether	20	21.5	ug/L	108	17		78	114	20
	Methyl Acetate	20	22.2	ug/L	111	17		67	125	20
	Methylene Chloride	20	20.2	ug/L	101	9		72	114	20
	trans-1,2-Dichloroethene	20	19.5	ug/L	98	10		75	108	20
	1,1-Dichloroethane	20	20.3	ug/L	102	10		78	112	20
	Cyclohexane	20	17.8	ug/L	89	1		75	110	20
	2-Butanone	100	110	ug/L	110	13		65	122	20
	Carbon Tetrachloride	20	20.6	ug/L	103	8		77	113	20
	cis-1,2-Dichloroethene	20	20.1	ug/L	101	12		77	110	20
	Bromochloromethane	20	21.5	ug/L	108	2		70	124	20
	Chloroform	20	20.7	ug/L	104	11		79	113	20
	1,1,1-Trichloroethane	20	20.4	ug/L	102	10		80	108	20
	Methylcyclohexane	20	18.7	ug/L	94	7		72	115	20
	Benzene	20	21.1	ug/L	106	11		82	109	20
	1,2-Dichloroethane	20	21.8	ug/L	109	12		80	115	20
	Trichloroethene	20	20.1	ug/L	101	10		77	113	20
	1,2-Dichloropropane	20	21.5	ug/L	108	12		83	111	20
	Bromodichloromethane	20	21.6	ug/L	108	13		83	110	20
	4-Methyl-2-Pentanone	100	120	ug/L	120	18	*	74	118	20
	Toluene	20	21.8	ug/L	109	9		82	110	20
	t-1,3-Dichloropropene	20	21.9	ug/L	110	13		79	110	20
	cis-1,3-Dichloropropene	20	21.7	ug/L	109	13		82	110	20
	1,1,2-Trichloroethane	20	22.1	ug/L	111	13		83	112	20
	2-Hexanone	100	130	ug/L	130	17	*	73	117	20
	Dibromochloromethane	20	22.3	ug/L	112	13	*	82	110	20
	1,2-Dibromoethane	20	22.5	ug/L	113	14	*	81	110	20
	Tetrachloroethene	20	20.0	ug/L	100	1		67	123	20
	Chlorobenzene	20	20.4	ug/L	102	6		82	109	20
	Ethyl Benzene	20	20.4	ug/L	102	6		83	109	20
	m/p-Xylenes	40	43.4	ug/L	109	7		82	110	20
	o-Xylene	20	20.7	ug/L	104	6		83	109	20
	Styrene	20	20.7	ug/L	104	7		80	111	20
	Bromoform	20	22.3	ug/L	112	9	*	79	109	20
	Isopropylbenzene	20	20.0	ug/L	100	8		83	112	20
	1,1,2,2-Tetrachloroethane	20	21.3	ug/L	106	13		76	118	20
	1,3-Dichlorobenzene	20	20.4	ug/L	102	9		82	108	20
	1,4-Dichlorobenzene	20	19.2	ug/L	96	5		82	107	20
	1,2-Dichlorobenzene	20	20.4	ug/L	102	9		82	109	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1405

Client: TechLaw Consultants, Inc

Analytical Method: SW8260-Low

Datafile : VN085806.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0221WBSD01	1,2-Dibromo-3-Chloropropane	20	20.5	ug/L	103	13		68	112	20
	1,2,4-Trichlorobenzene	20	18.6	ug/L	93	14		75	113	20
	1,2,3-Trichlorobenzene	20	18.9	ug/L	95	17		76	114	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1405

Client: TechLaw Consultants, Inc

Analytical Method: SW8260-Low

Datafile : VN085832.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0224WBS01	Dichlorodifluoromethane	20	19.8	ug/L	99			69	116	
	Chloromethane	20	19.6	ug/L	98			65	116	
	Vinyl chloride	20	19.6	ug/L	98			65	117	
	Bromomethane	20	19.5	ug/L	98			58	125	
	Chloroethane	20	19.2	ug/L	96			56	128	
	Trichlorofluoromethane	20	19.6	ug/L	98			73	115	
	1,1,2-Trichlorotrifluoroethane	20	20.8	ug/L	104			80	112	
	1,1-Dichloroethene	20	19.3	ug/L	97			74	110	
	Acetone	100	110	ug/L	110			60	125	
	Carbon disulfide	20	18.4	ug/L	92			64	112	
	Methyl tert-butyl Ether	20	20.7	ug/L	104			78	114	
	Methyl Acetate	20	22.4	ug/L	112			67	125	
	Methylene Chloride	20	20.4	ug/L	102			72	114	
	trans-1,2-Dichloroethene	20	19.3	ug/L	97			75	108	
	1,1-Dichloroethane	20	20.6	ug/L	103			78	112	
	Cyclohexane	20	18.5	ug/L	93			75	110	
	2-Butanone	100	120	ug/L	120			65	122	
	Carbon Tetrachloride	20	19.6	ug/L	98			77	113	
	cis-1,2-Dichloroethene	20	19.6	ug/L	98			77	110	
	Bromochloromethane	20	24.9	ug/L	125		*	70	124	
	Chloroform	20	20.8	ug/L	104			79	113	
	1,1,1-Trichloroethane	20	19.7	ug/L	99			80	108	
	Methylcyclohexane	20	17.8	ug/L	89			72	115	
	Benzene	20	20.3	ug/L	102			82	109	
	1,2-Dichloroethane	20	19.9	ug/L	100			80	115	
	Trichloroethene	20	18.7	ug/L	94			77	113	
	1,2-Dichloropropane	20	20.8	ug/L	104			83	111	
	Bromodichloromethane	20	20.6	ug/L	103			83	110	
	4-Methyl-2-Pentanone	100	120	ug/L	120		*	74	118	
	Toluene	20	21.1	ug/L	106			82	110	
	t-1,3-Dichloropropene	20	20.3	ug/L	102			79	110	
	cis-1,3-Dichloropropene	20	20.9	ug/L	104			82	110	
	1,1,2-Trichloroethane	20	20.9	ug/L	104			83	112	
	2-Hexanone	100	120	ug/L	120		*	73	117	
	Dibromochloromethane	20	21.3	ug/L	106			82	110	
	1,2-Dibromoethane	20	21.3	ug/L	106			81	110	
	Tetrachloroethene	20	19.4	ug/L	97			67	123	
	Chlorobenzene	20	20.1	ug/L	101			82	109	
	Ethyl Benzene	20	20.1	ug/L	101			83	109	
	m/p-Xylenes	40	43.0	ug/L	108			82	110	
	o-Xylene	20	20.6	ug/L	103			83	109	
	Styrene	20	20.5	ug/L	103			80	111	
	Bromoform	20	22.1	ug/L	111		*	79	109	
	Isopropylbenzene	20	19.2	ug/L	96			83	112	
	1,1,2,2-Tetrachloroethane	20	20.6	ug/L	103			76	118	
	1,3-Dichlorobenzene	20	19.2	ug/L	96			82	108	
	1,4-Dichlorobenzene	20	18.8	ug/L	94			82	107	
	1,2-Dichlorobenzene	20	19.5	ug/L	98			82	109	



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1405

Client: TechLaw Consultants, Inc

Analytical Method: SW8260-Low

Datafile : VN085832.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0224WBS01	1,2-Dibromo-3-Chloropropane	20	19.7	ug/L	99			68	112	
	1,2,4-Trichlorobenzene	20	17.0	ug/L	85			75	113	
	1,2,3-Trichlorobenzene	20	17.5	ug/L	88			76	114	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0221WBL01

Lab Name: CHEMTECH

Contract: TECH05

Lab Code: CHEM Case No.: Q1405

SAS No.: Q1405 SDG NO.: Q1405

Lab File ID: VN085804.D

Lab Sample ID: VN0221WBL01

Date Analyzed: 02/21/2025

Time Analyzed: 15:42

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0221WBS01	VN0221WBS01	VN085805.D	02/21/2025
VN0221WBSD01	VN0221WBSD01	VN085806.D	02/21/2025
MW-01-021325	Q1405-01	VN085821.D	02/21/2025
MW-04-021325	Q1405-02	VN085822.D	02/21/2025
MW-23-021425	Q1405-06	VN085826.D	02/22/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0224WBL01

Lab Name: CHEMTECH

Contract: TECH05

Lab Code: CHEM Case No.: Q1405

SAS No.: Q1405 SDG NO.: Q1405

Lab File ID: VN085831.D

Lab Sample ID: VN0224WBL01

Date Analyzed: 02/24/2025

Time Analyzed: 12:39

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0224WBS01	VN0224WBS01	VN085832.D	02/24/2025
MW-04-021325DL	Q1405-02DL	VN085834.D	02/24/2025
MW-20D-021325	Q1405-03	VN085835.D	02/24/2025
MW-20D-FD-021325	Q1405-04	VN085836.D	02/24/2025
MW-22-021925	Q1405-05	VN085837.D	02/24/2025
TB-02-021325	Q1405-11	VN085838.D	02/24/2025
MW-26-021825	Q1405-07	VN085840.D	02/24/2025
MW-11R-021325	Q1405-08	VN085841.D	02/24/2025
MW-13-021925	Q1405-09	VN085842.D	02/24/2025
MW-30S-021825	Q1405-10	VN085843.D	02/24/2025

COMMENTS: _____



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TECH05
Lab Code: CHEM Case No.: Q1405 SAS No.: Q1405 SDG NO.: Q1405
Lab File ID: VN085771.D BFB Injection Date: 02/18/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:35
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.1
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	6 (7.4) 1
176	95.0 - 101.0% of mass 174	78.9 (96.5) 1
177	5.0 - 9.0% of mass 176	5.4 (6.9) 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
VSTDICC100	VSTDICC100	VN085772.D	02/18/2025	11:09
VSTDICCC050	VSTDICCC050	VN085773.D	02/18/2025	11:32
VSTDICC010	VSTDICC010	VN085775.D	02/18/2025	12:20
VSTDICC005	VSTDICC005	VN085776.D	02/18/2025	12:43
VSTDICC001	VSTDICC001	VN085777.D	02/18/2025	13:07
VSTDICC020	VSTDICC020	VN085779.D	02/18/2025	14:18



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TECH05
Lab Code: CHEM Case No.: Q1405 SAS No.: Q1405 SDG NO.: Q1405
Lab File ID: VN085801.D BFB Injection Date: 02/21/2025
Instrument ID: MSVOA_N BFB Injection Time: 14:10
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.6
75	30.0 - 60.0% of mass 95	52.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	1.4 (1.7) 1
174	50.0 - 100.0% of mass 95	81.4
175	5.0 - 9.0% of mass 174	5.8 (7.1) 1
176	95.0 - 101.0% of mass 174	77.7 (95.5) 1
177	5.0 - 9.0% of mass 176	4.9 (6.2) 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	VN085802.D	02/21/2025	14:43
VN0221WBL01	VN0221WBL01	VN085804.D	02/21/2025	15:42
VN0221WBS01	VN0221WBS01	VN085805.D	02/21/2025	16:06
VN0221WBSD01	VN0221WBSD01	VN085806.D	02/21/2025	16:39
MW-01-021325	Q1405-01	VN085821.D	02/21/2025	22:37
MW-04-021325	Q1405-02	VN085822.D	02/21/2025	23:01
MW-23-021425	Q1405-06	VN085826.D	02/22/2025	00:36



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TECH05
Lab Code: CHEM Case No.: Q1405 SAS No.: Q1405 SDG NO.: Q1405
Lab File ID: VN085828.D BFB Injection Date: 02/24/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:50
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 60.0% of mass 95	44.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6
173	Less than 2.0% of mass 174	1.5 (2) 1
174	50.0 - 100.0% of mass 95	76.1
175	5.0 - 9.0% of mass 174	5.6 (7.4) 1
176	95.0 - 101.0% of mass 174	73.9 (97.1) 1
177	5.0 - 9.0% of mass 176	5.3 (7.2) 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	VN085829.D	02/24/2025	11:37
VN0224WBL01	VN0224WBL01	VN085831.D	02/24/2025	12:39
VN0224WBS01	VN0224WBS01	VN085832.D	02/24/2025	13:03
MW-04-021325DL	Q1405-02DL	VN085834.D	02/24/2025	14:00
MW-20D-021325	Q1405-03	VN085835.D	02/24/2025	14:24
MW-20D-FD-021325	Q1405-04	VN085836.D	02/24/2025	14:49
MW-22-021925	Q1405-05	VN085837.D	02/24/2025	15:13
TB-02-021325	Q1405-11	VN085838.D	02/24/2025	15:37
MW-26-021825	Q1405-07	VN085840.D	02/24/2025	16:26
MW-11R-021325	Q1405-08	VN085841.D	02/24/2025	16:50
MW-13-021925	Q1405-09	VN085842.D	02/24/2025	17:14
MW-30S-021825	Q1405-10	VN085843.D	02/24/2025	17:38

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TECH05
 Lab Code: CHEM Case No.: Q1405 SAS No.: Q1405 SDG NO.: Q1405
 Lab File ID: VN085802.D Date Analyzed: 02/21/2025
 Instrument ID: MSVOA_N Time Analyzed: 14:43
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	267971	8.22	427963	9.09	396190	11.87
UPPER LIMIT	535942	8.718	855926	9.594	792380	12.365
LOWER LIMIT	133986	7.718	213982	8.594	198095	11.365
EPA SAMPLE NO.						
MW-01-021325	248264	8.22	471394	9.10	409575	11.87
MW-04-021325	285100	8.22	501960	9.10	442801	11.87
MW-23-021425	256602	8.22	482778	9.10	427454	11.87
VN0221WBL01	239124	8.22	440255	9.10	393842	11.87
VN0221WBS01	294095	8.22	478037	9.10	411262	11.86
VN0221WBSD01	271259	8.22	440205	9.10	391453	11.87

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TECH05
 Lab Code: CHEM Case No.: Q1405 SAS No.: Q1405 SDG NO.: Q1405
 Lab File ID: VN085802.D Date Analyzed: 02/21/2025
 Instrument ID: MSVOA_N Time Analyzed: 14:43
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	205820	13.788				
UPPER LIMIT	411640	14.288				
LOWER LIMIT	102910	13.288				
EPA SAMPLE NO.						
MW-01-021325	159960	13.79				
MW-04-021325	183668	13.79				
MW-23-021425	167368	13.79				
VN0221WBL01	150905	13.79				
VN0221WBS01	206616	13.79				
VN0221WBSD01	190177	13.79				

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TECH05
 Lab Code: CHEM Case No.: Q1405 SAS No.: Q1405 SDG NO.: Q1405
 Lab File ID: VN085829.D Date Analyzed: 02/24/2025
 Instrument ID: MSVOA_N Time Analyzed: 11:37
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	270391	8.22	444288	9.10	401749	11.87
UPPER LIMIT	540782	8.718	888576	9.6	803498	12.365
LOWER LIMIT	135196	7.718	222144	8.6	200875	11.365
EPA SAMPLE NO.						
MW-04-021325DL	227327	8.22	420422	9.10	359119	11.87
MW-20D-021325	225971	8.22	429272	9.10	376021	11.87
MW-20D-FD-021325	225697	8.22	441369	9.10	379940	11.87
MW-22-021925	211067	8.22	405232	9.10	347826	11.87
MW-26-021825	210306	8.22	401411	9.10	356777	11.87
MW-11R-021325	213669	8.22	408077	9.10	364577	11.87
MW-13-021925	206228	8.22	390930	9.10	337160	11.87
MW-30S-021825	208683	8.22	401320	9.10	350062	11.87
TB-02-021325	212384	8.22	411076	9.10	362397	11.87
VN0224WBL01	219652	8.22	415867	9.10	368217	11.87
VN0224WBS01	257358	8.22	436252	9.10	378131	11.87

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TECH05
 Lab Code: CHEM Case No.: Q1405 SAS No.: Q1405 SDG NO.: Q1405
 Lab File ID: VN085829.D Date Analyzed: 02/24/2025
 Instrument ID: MSVOA_N Time Analyzed: 11:37
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	208250	13.788				
UPPER LIMIT	416500	14.288				
LOWER LIMIT	104125	13.288				
EPA SAMPLE NO.						
MW-04-021325DL	127235	13.79				
MW-20D-021325	144563	13.79				
MW-20D-FD-021325	144264	13.79				
MW-22-021925	123885	13.79				
MW-26-021825	143476	13.79				
MW-11R-021325	143066	13.79				
MW-13-021925	124231	13.79				
MW-30S-021825	131978	13.79				
TB-02-021325	137032	13.79				
VN0224WBL01	141296	13.79				
VN0224WBS01	189869	13.79				

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	02/13/25
Project:	REAC Commodore	Date Received:	02/21/25
Client Sample ID:	MW-01-021325	SDG No.:	Q1405
Lab Sample ID:	Q1405-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085821.D	1		02/21/25 22:37	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.38	J	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	2.50	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.75	J	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	11.7		0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	5.70		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	UQ	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	TechLaw Consultants, Inc		Date Collected:	02/13/25	
Project:	REAC Commodore		Date Received:	02/21/25	
Client Sample ID:	MW-01-021325		SDG No.:	Q1405	
Lab Sample ID:	Q1405-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085821.D	1		02/21/25 22:37	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	UQ	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	UQ	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	UQ	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	UQ	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.5		74 - 125	117%	SPK: 50
1868-53-7	Dibromofluoromethane	53.5		75 - 124	107%	SPK: 50
2037-26-5	Toluene-d8	49.9		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.4		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	248000	8.224			
540-36-3	1,4-Difluorobenzene	471000	9.1			
3114-55-4	Chlorobenzene-d5	410000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	160000	13.788			

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	02/13/25
Project:	REAC Commodore	Date Received:	02/21/25
Client Sample ID:	MW-01-021325	SDG No.:	Q1405
Lab Sample ID:	Q1405-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085821.D	1		02/21/25 22:37	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022125\
 Data File : VN085821.D
 Acq On : 21 Feb 2025 22:37
 Operator : JC\MD
 Sample : Q1405-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-01-021325

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/24/2025
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 02:44:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	248264	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	471394	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	409575	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	159960	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	188212	58.475	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.960%			
35) Dibromofluoromethane	8.159	113	165059	53.511	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.020%			
50) Toluene-d8	10.565	98	560000	49.899	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.800%			
62) 4-Bromofluorobenzene	12.847	95	164316	44.439	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 88.880%			
Target Compounds						
3) Chloromethane	2.365	50	1302	0.384	ug/l	88
16) Acetone	4.424	43	2561m	2.515	ug/l	
18) Methyl Acetate	5.030	43	2613	0.746	ug/l	91
27) cis-1,2-Dichloroethene	7.488	96	39934	11.748	ug/l	90
44) Trichloroethene	9.347	130	19444	5.660	ug/l	98

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

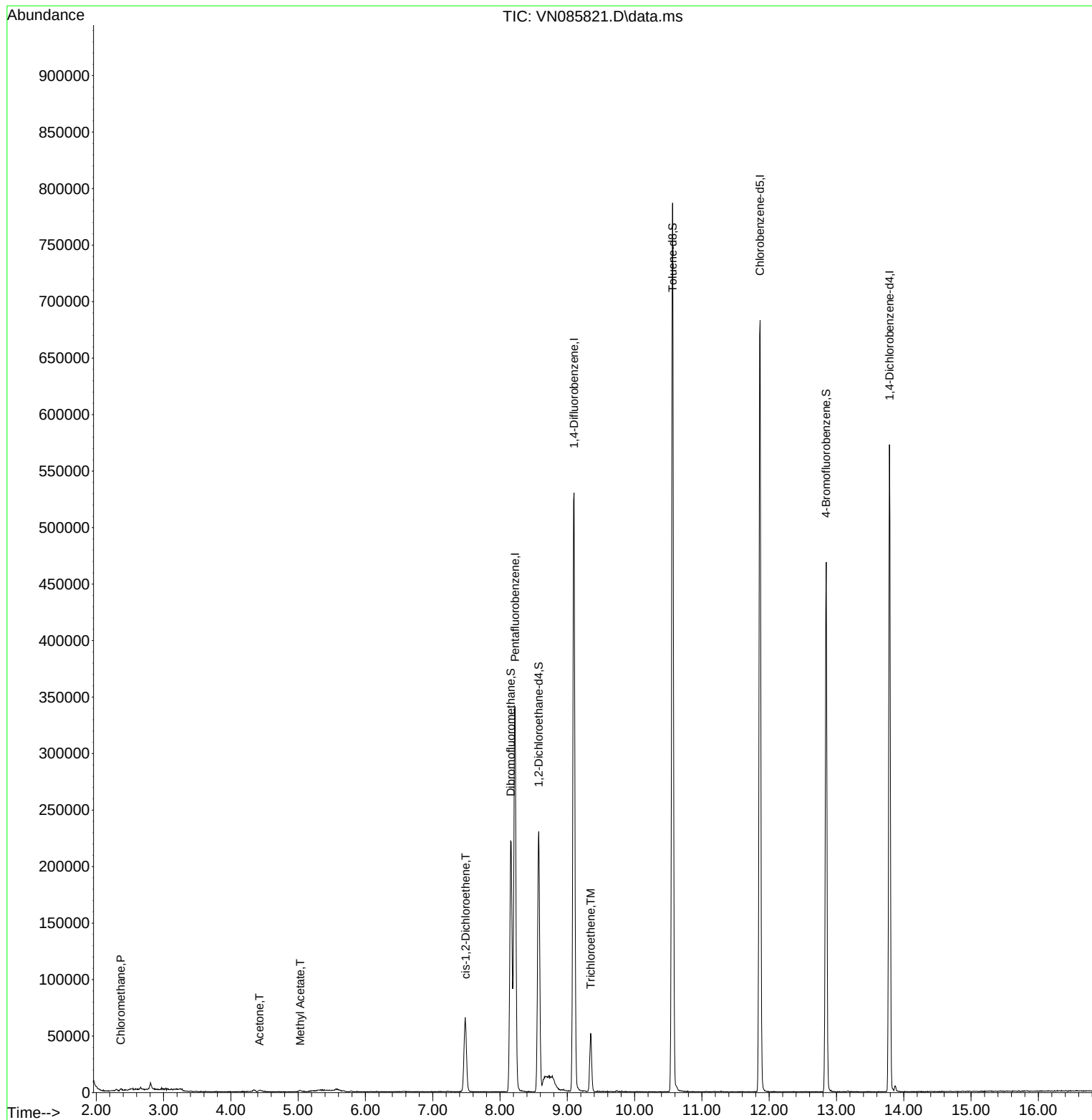
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Data File : VN085821.D
Acq On : 21 Feb 2025 22:37
Operator : JC\MD
Sample : Q1405-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

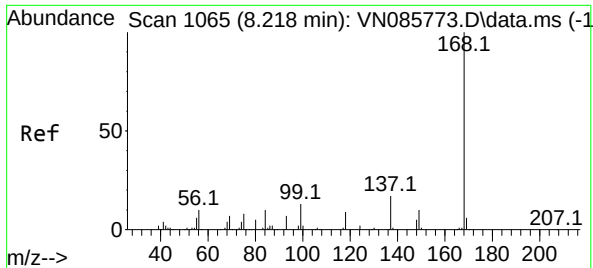
Instrument :
MSVOA_N
ClientSampleId :
MW-01-021325

Manual Integrations
APPROVED

Reviewed By : John Carlone 02/24/2025
Supervised By : Mahesh Dadoda 02/24/2025

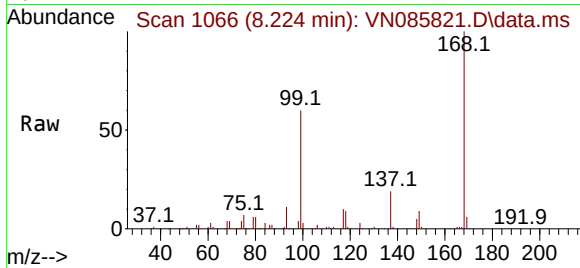
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085821.D
Acq: 21 Feb 2025 22:37

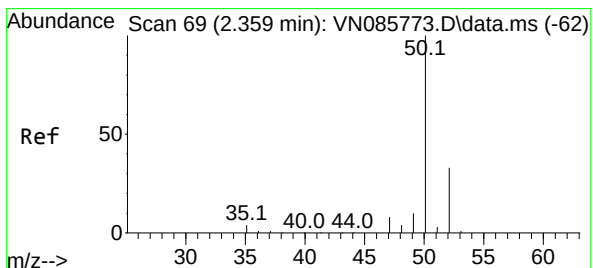
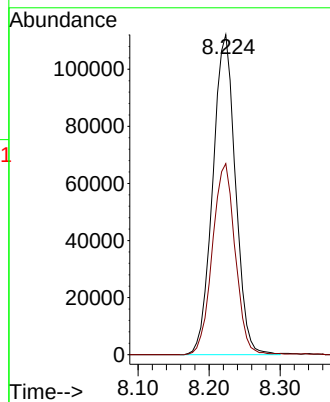
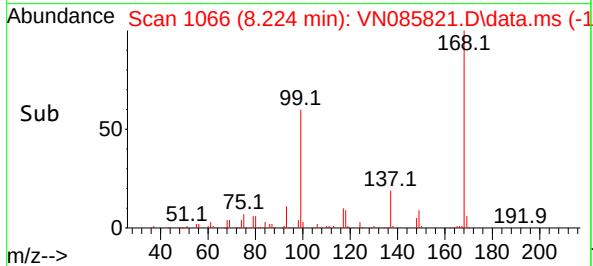
Instrument :
MSVOA_N
ClientSampleId :
MW-01-021325



Tgt Ion:168 Resp: 248264
Ion Ratio Lower Upper
168 100
99 59.7 47.9 71.9

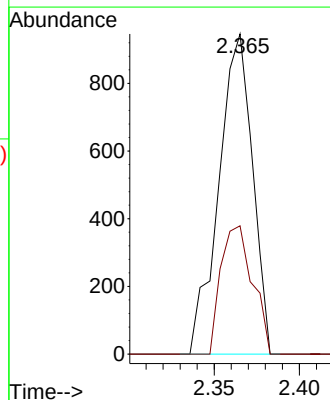
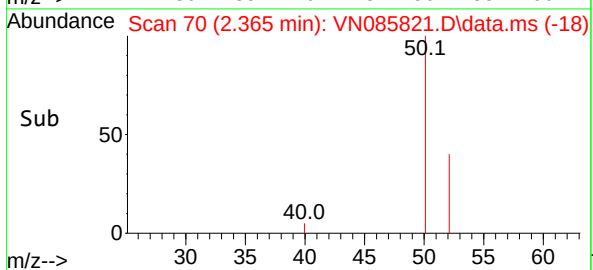
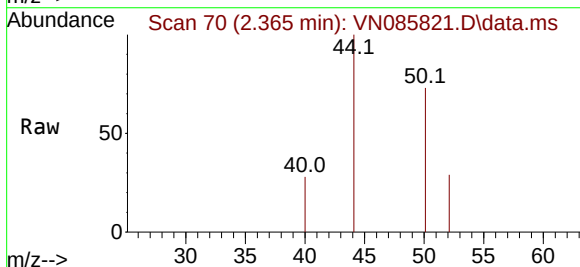
Manual Integrations
APPROVED

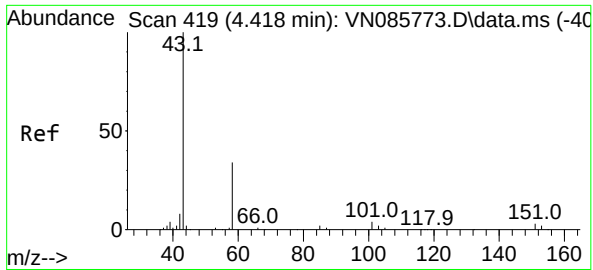
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#3
Chloromethane
Concen: 0.384 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN085821.D
Acq: 21 Feb 2025 22:37

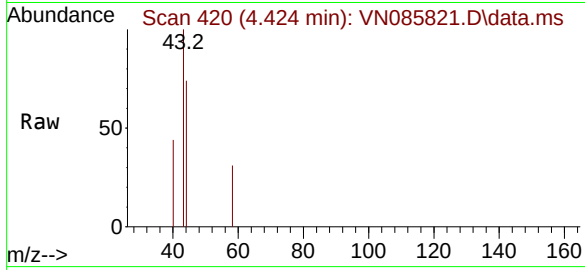
Tgt Ion: 50 Resp: 1302
Ion Ratio Lower Upper
50 100
52 40.1 26.7 40.1





#16
Acetone
Concen: 2.515 ug/l m
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN085821.D
Acq: 21 Feb 2025 22:37

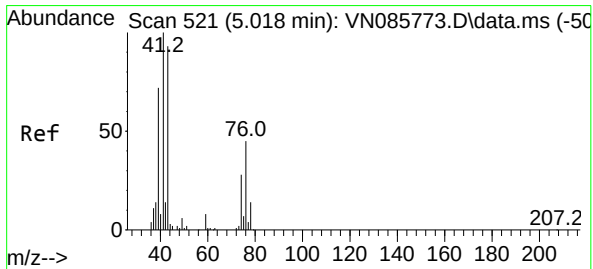
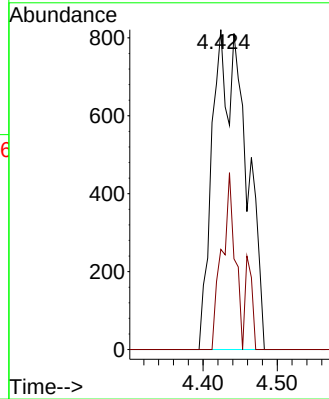
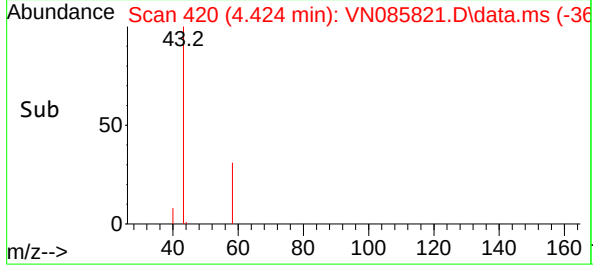
Instrument :
MSVOA_N
ClientSampleId :
MW-01-021325



Tgt Ion: 43 Resp: 256
Ion Ratio Lower Upper
43 100
58 31.3 27.5 41.3

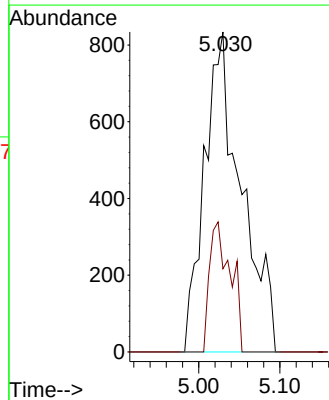
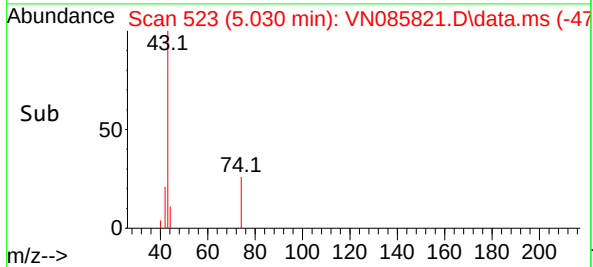
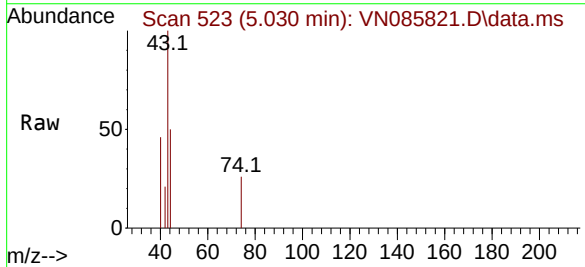
Manual Integrations
APPROVED

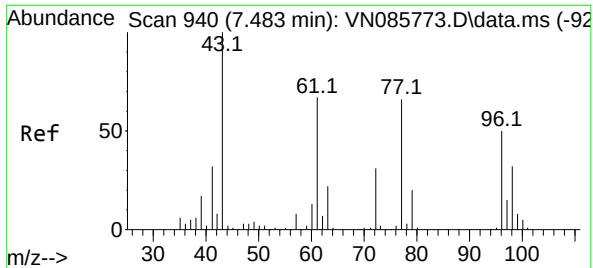
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#18
Methyl Acetate
Concen: 0.746 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085821.D
Acq: 21 Feb 2025 22:37

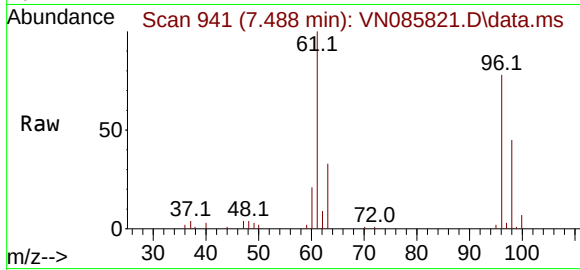
Tgt Ion: 43 Resp: 2613
Ion Ratio Lower Upper
43 100
74 23.2 22.2 33.4





#27
cis-1,2-Dichloroethene
Concen: 11.748 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085821.D
Acq: 21 Feb 2025 22:37

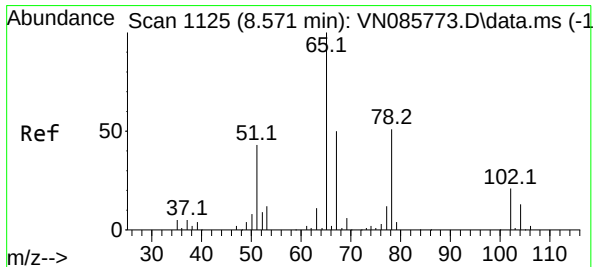
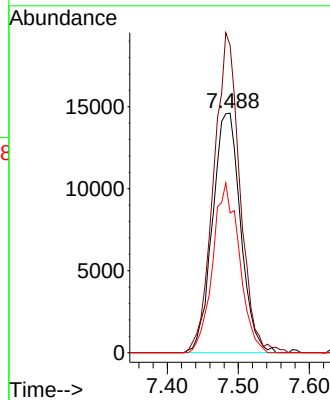
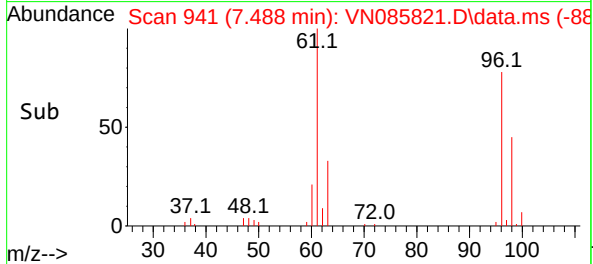
Instrument :
MSVOA_N
ClientSampleId :
MW-01-021325



Tgt Ion: 96 Resp: 39934
Ion Ratio Lower Upper
96 100
61 124.8 0.0 280.6
98 67.1 0.0 128.6

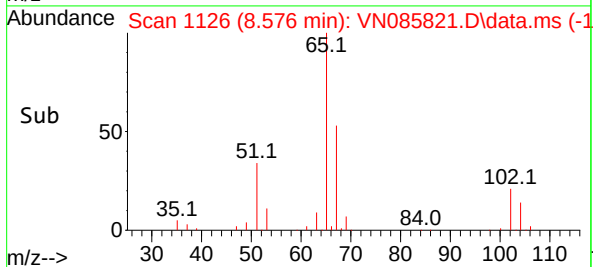
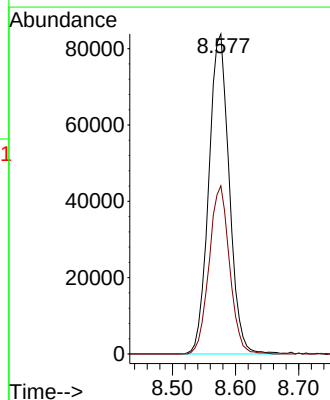
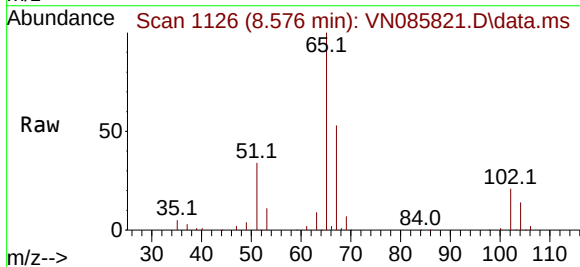
Manual Integrations
APPROVED

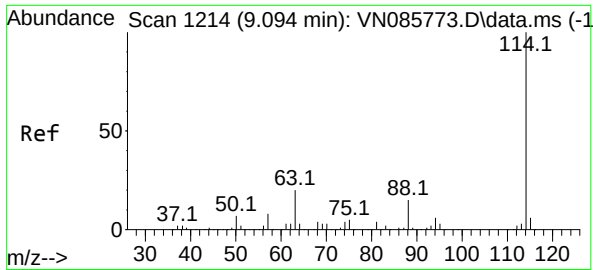
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#33
1,2-Dichloroethane-d4
Concen: 58.475 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085821.D
Acq: 21 Feb 2025 22:37

Tgt Ion: 65 Resp: 188212
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 114

Delta R.T. 0.006 min

Lab File: VN085821.D

Acq: 21 Feb 2025 22:37

Instrument :

MSVOA_N

ClientSampleId :

MW-01-021325

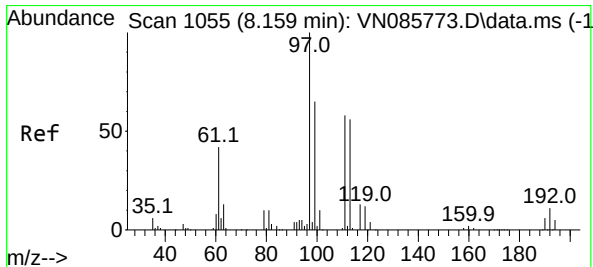
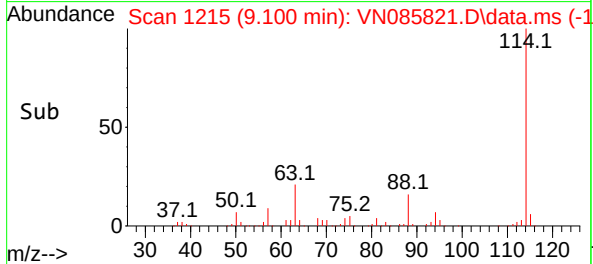
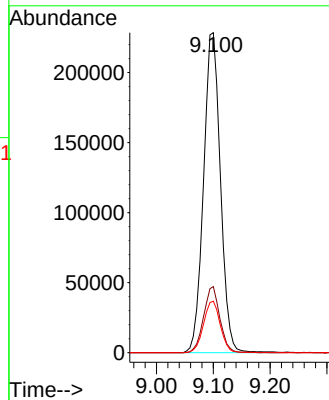
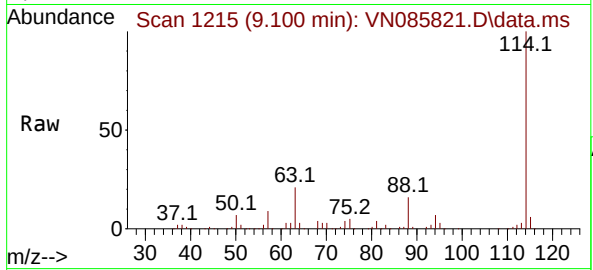
Tgt Ion:	114	Resp:	471394
Ion Ratio	Lower	Upper	
114	100		
63	20.7	0.0	39.2
88	16.1	0.0	30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#35

Dibromofluoromethane

Concen: 53.511 ug/l

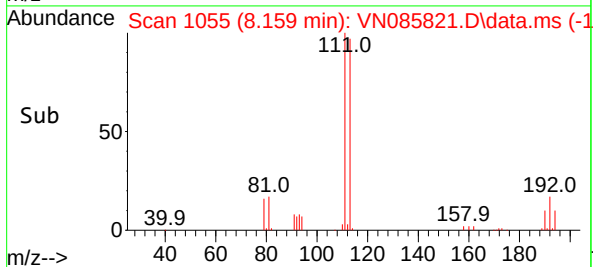
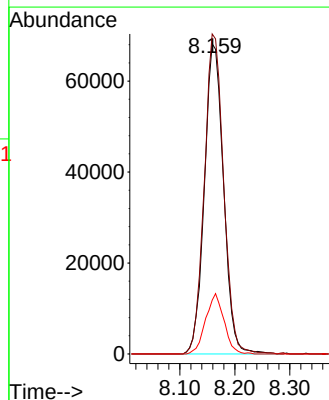
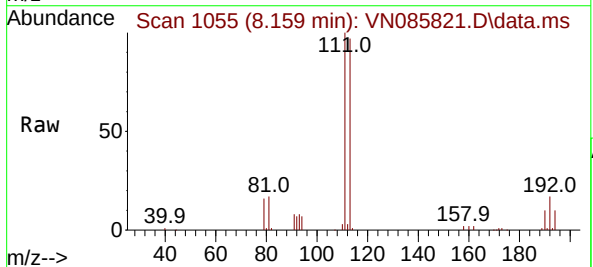
RT: 8.159 min Scan# 1055

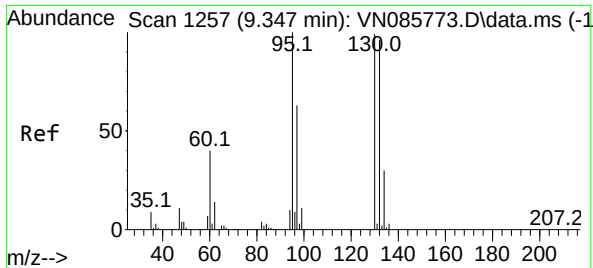
Delta R.T. -0.000 min

Lab File: VN085821.D

Acq: 21 Feb 2025 22:37

Tgt Ion:	113	Resp:	165059
Ion Ratio	Lower	Upper	
113	100		
111	104.1	82.2	123.4
192	18.7	14.7	22.1





#44

Trichloroethene

Concen: 5.660 ug/l

RT: 9.347 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085821.D

Acq: 21 Feb 2025 22:37

Instrument :

MSVOA_N

ClientSampleId :

MW-01-021325

Tgt Ion:130 Resp: 1944

Ion Ratio Lower Upper

130 100

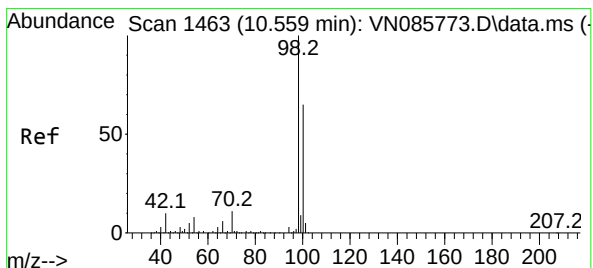
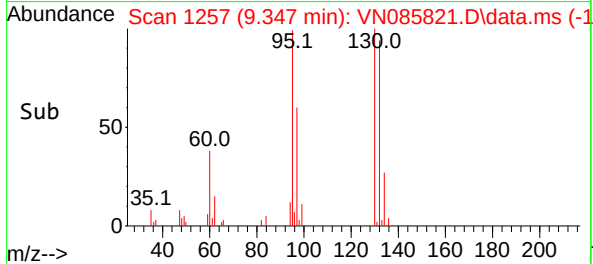
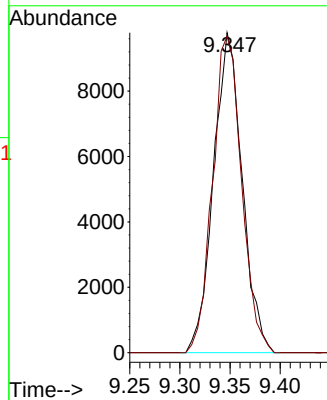
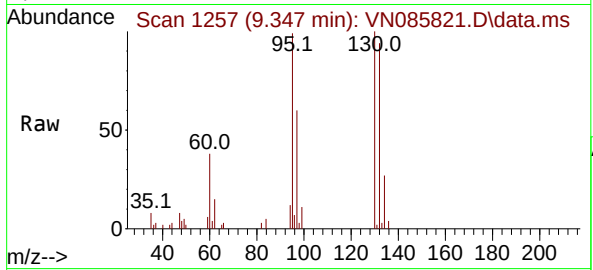
95 98.9 0.0 202.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#50

Toluene-d8

Concen: 49.899 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085821.D

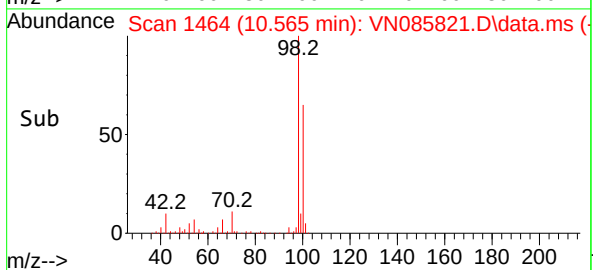
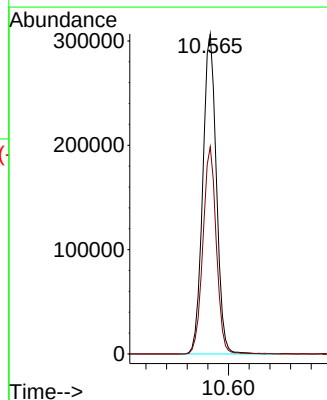
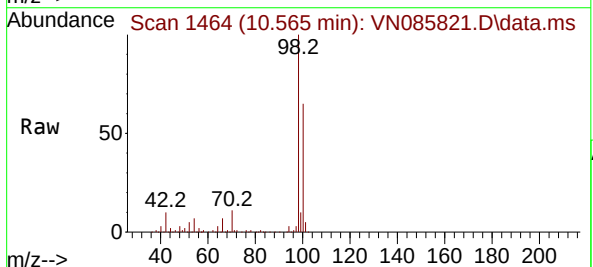
Acq: 21 Feb 2025 22:37

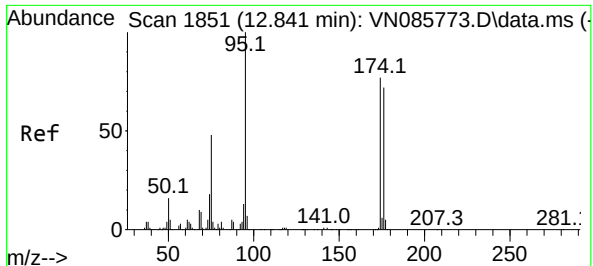
Tgt Ion: 98 Resp: 560000

Ion Ratio Lower Upper

98 100

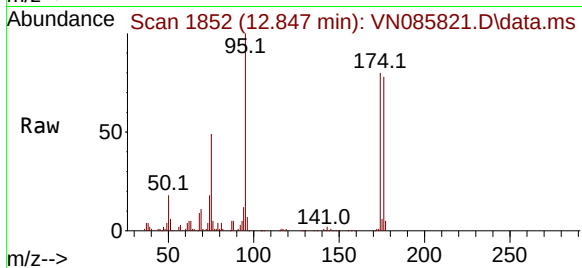
100 63.6 52.1 78.1





#62
4-Bromofluorobenzene
Concen: 44.439 ug/l
RT: 12.847 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VN085821.D
Acq: 21 Feb 2025 22:37

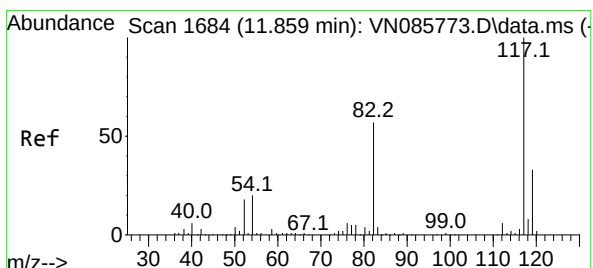
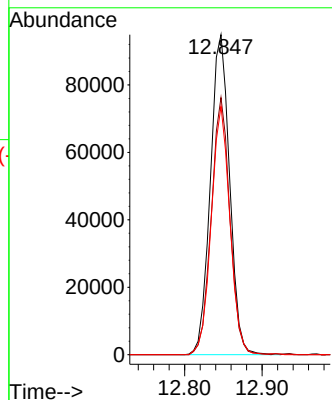
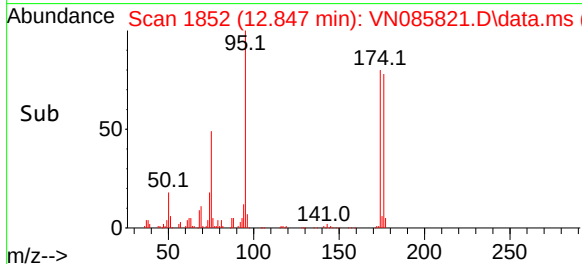
Instrument :
MSVOA_N
ClientSampleId :
MW-01-021325



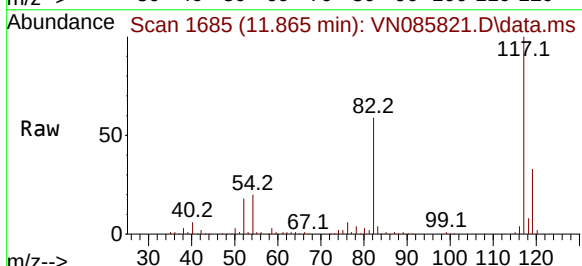
Tgt Ion: 95 Resp: 164310
Ion Ratio Lower Upper
95 100
174 77.7 0.0 152.4
176 75.0 0.0 146.6

Manual Integrations
APPROVED

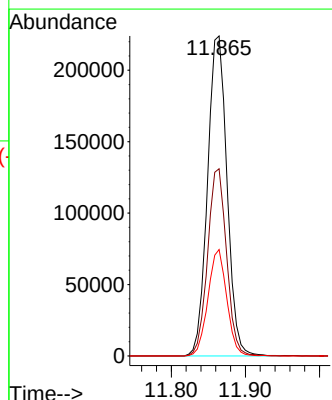
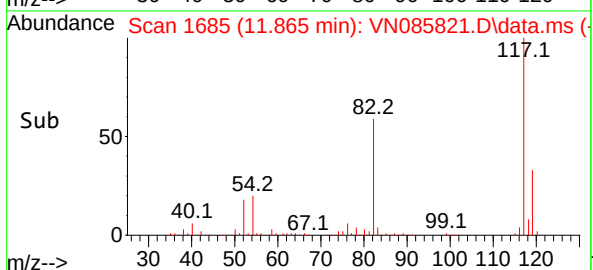
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

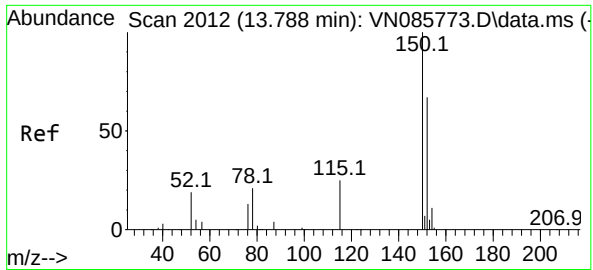


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085821.D
Acq: 21 Feb 2025 22:37



Tgt Ion:117 Resp: 409575
Ion Ratio Lower Upper
117 100
82 58.5 45.7 68.5
119 33.2 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN085821.D

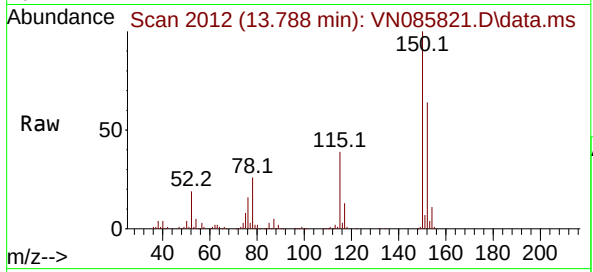
Acq: 21 Feb 2025 22:37

Instrument :

MSVOA_N

ClientSampleId :

MW-01-021325



Tgt Ion:152 Resp: 159960

Ion Ratio Lower Upper

152 100

115 60.0 30.4 91.3

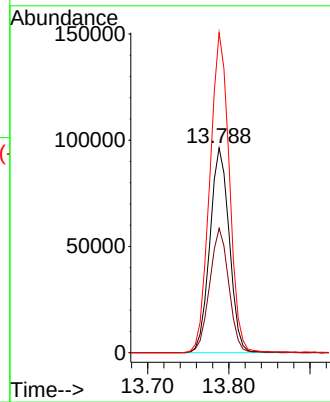
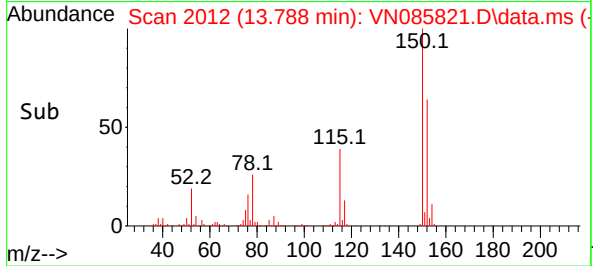
150 157.0 0.0 345.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
 Data File : VN085821.D
 Acq On : 21 Feb 2025 22:37
 Operator : JC\MD
 Sample : Q1405-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-01-021325

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Title : SW846 8260

Signal : TIC: VN085821.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.482	930	940	953	rVB	65777	167366	11.62%	2.203%
2	8.159	1044	1055	1060	rBV	221982	532573	36.99%	7.009%
3	8.224	1060	1066	1078	rVB	339974	768373	53.36%	10.112%
4	8.577	1115	1126	1134	rBV	230588	519236	36.06%	6.834%
5	9.100	1205	1215	1235	rBV	529589	1094271	76.00%	14.402%
6	9.347	1247	1257	1267	rBV	51620	102655	7.13%	1.351%
7	10.565	1455	1464	1479	rBV	786570	1439879	100.00%	18.950%
8	11.865	1676	1685	1696	rBV	682846	1228752	85.34%	16.171%
9	12.847	1844	1852	1863	rBV	468804	791988	55.00%	10.423%
10	13.788	2002	2012	2023	rBV	572794	953166	66.20%	12.545%

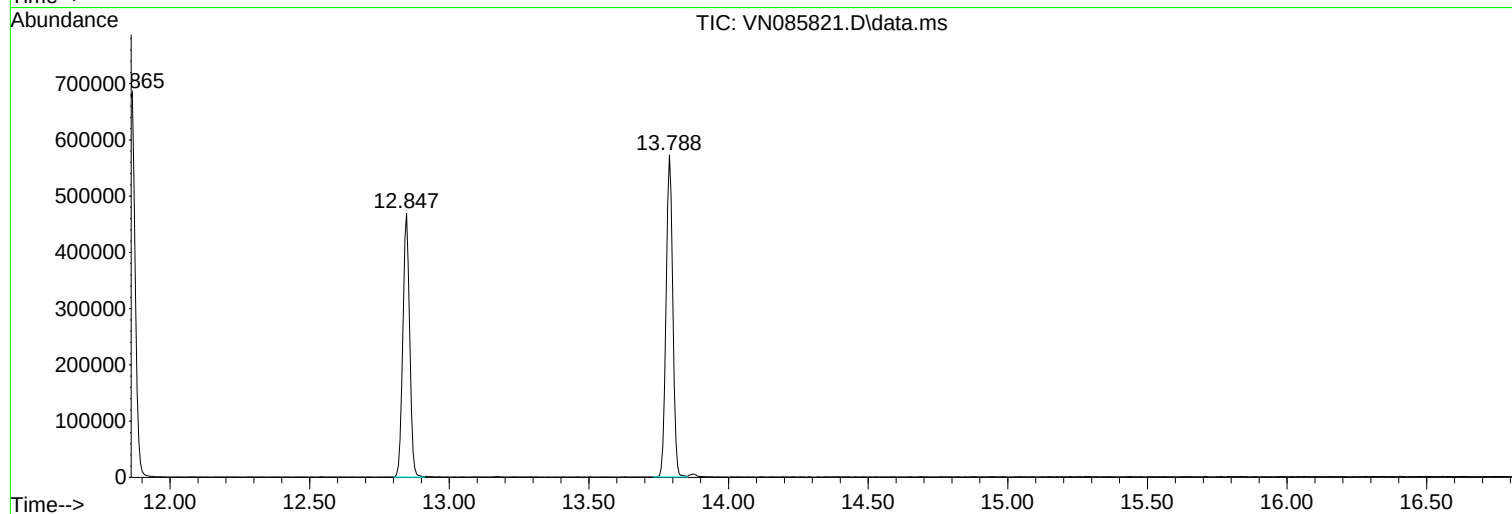
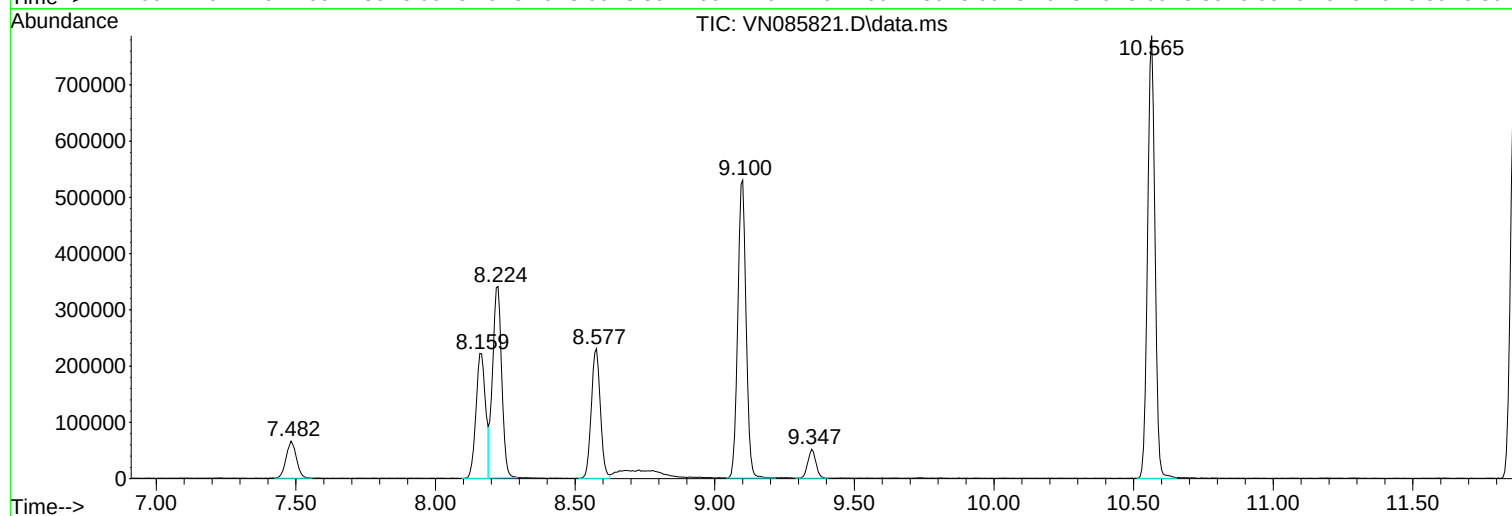
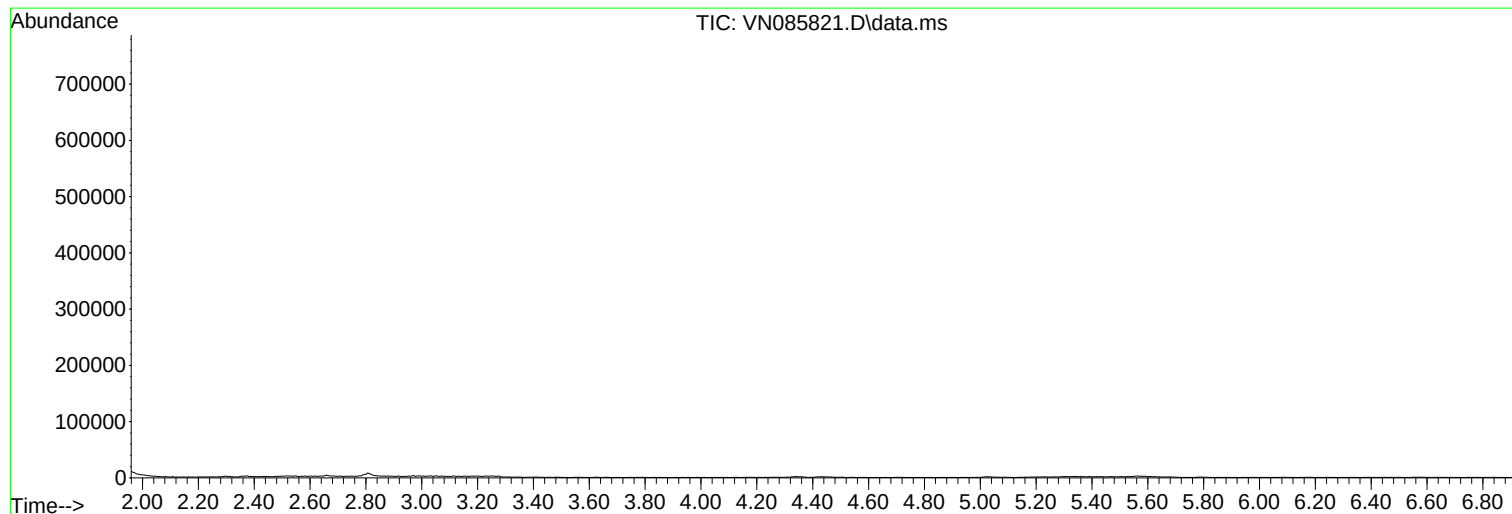
Sum of corrected areas: 7598259

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085821.D
Acq On : 21 Feb 2025 22:37
Operator : JC\MD
Sample : Q1405-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-01-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085821.D
Acq On : 21 Feb 2025 22:37
Operator : JC\MD
Sample : Q1405-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-01-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085821.D
Acq On : 21 Feb 2025 22:37
Operator : JC\MD
Sample : Q1405-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-01-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/13/25
Project:	REAC Commodore			Date Received:	02/21/25
Client Sample ID:	MW-04-021325			SDG No.:	Q1405
Lab Sample ID:	Q1405-02			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085822.D	1		02/21/25 23:01	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	1.20		0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	60.2		0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	13.3		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	7.70		0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1700	E	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.94	J	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	13.6		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.78	J	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	6200	E	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	UQ	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/13/25	
Project:	REAC Commodore			Date Received:	02/21/25	
Client Sample ID:	MW-04-021325			SDG No.:	Q1405	
Lab Sample ID:	Q1405-02			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085822.D	1		02/21/25 23:01	VN022125

[illegible]

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/13/25
Project:	REAC Commodore			Date Received:	02/21/25
Client Sample ID:	MW-04-021325			SDG No.:	Q1405
Lab Sample ID:	Q1405-02			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085822.D	1		02/21/25 23:01	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
123-91-1	1,4-Dioxane	24.7	J		9.70	ug/L
95-49-8	2-Chlorotoluene	7.50	J		13.1	ug/L

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_N\Data\VN022125\
 Data File : VN085822.D
 Acq On : 21 Feb 2025 23:01
 Operator : JC\MD
 Sample : Q1405-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-04-021325

Quant Time: Feb 22 02:44:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

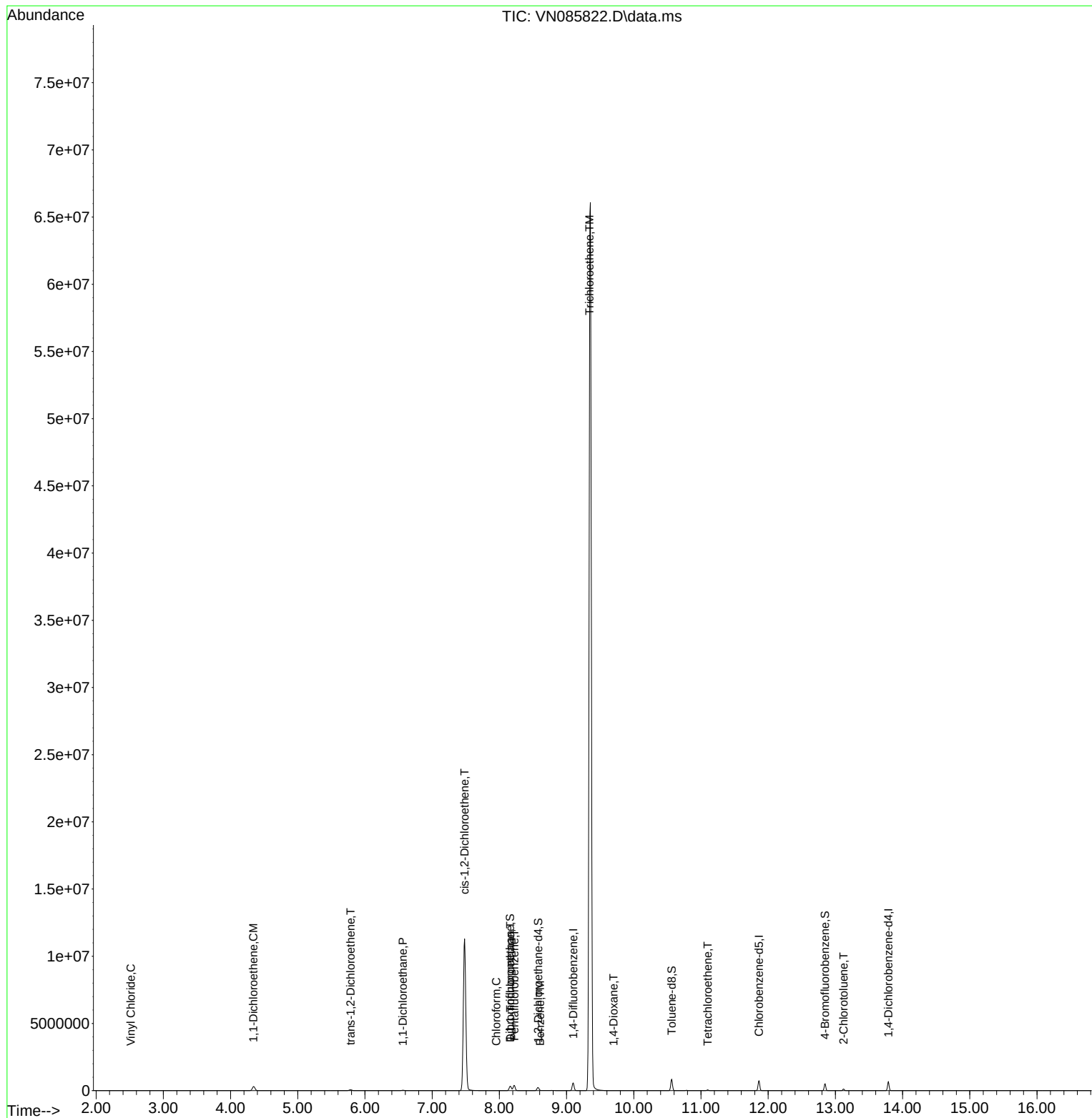
Internal Standards						
1) Pentafluorobenzene	8.224	168	285100	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	501960	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	442801	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	183668	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	192280	52.021	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 104.040%	
35) Dibromofluoromethane	8.159	113	172034	52.376	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 104.760%	
50) Toluene-d8	10.565	98	597693	50.015	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.020%	
62) 4-Bromofluorobenzene	12.847	95	180373	45.811	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 91.620%	
Target Compounds						Qvalue
4) Vinyl Chloride	2.518	62	4855	1.178	ug/l	96
12) 1,1-Dichloroethene	4.342	96	188256	60.213	ug/l	94
21) trans-1,2-Dichloroethene	5.789	96	44630	13.257	ug/l	86
24) 1,1-Dichloroethane	6.565	63	48248	7.652	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	6819018	1746.917	ug/l	91
30) Chloroform	7.953	83	6184	0.938	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	79594	13.581	ug/l	95
40) Benzene	8.606	78	11646	0.782	ug/l	96
44) Trichloroethene	9.341	130	22713356	6208.955	ug/l	99
49) 1,4-Dioxane	9.700	88	1332	24.655	ug/l #	74
64) Tetrachloroethene	11.100	164	13909	4.055	ug/l	98
79) 2-Chlorotoluene	13.123	91	72514	7.531	ug/l	99

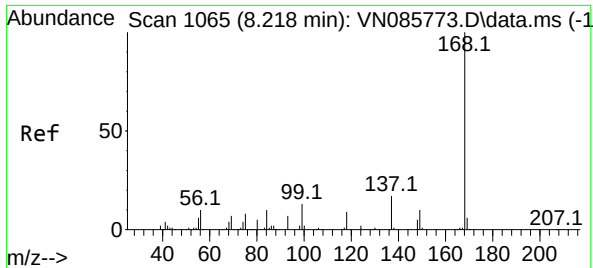
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085822.D
Acq On : 21 Feb 2025 23:01
Operator : JC\MD
Sample : Q1405-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325

Quant Time: Feb 22 02:44:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

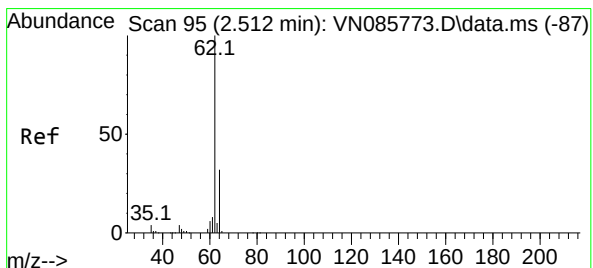
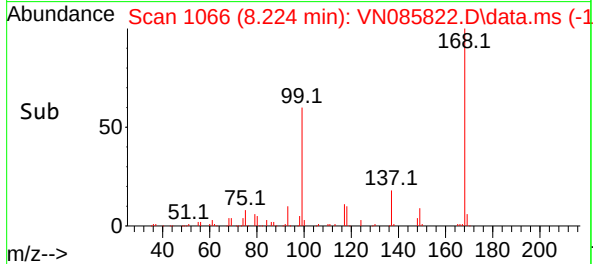
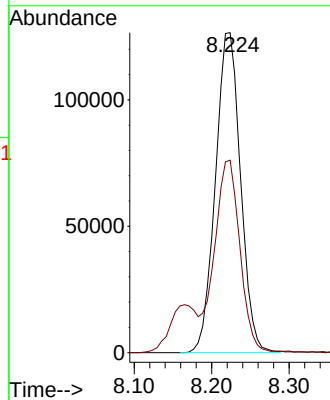
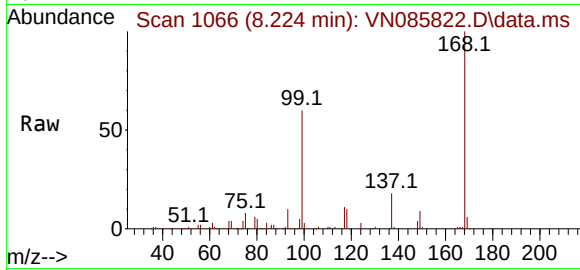




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085822.D
Acq: 21 Feb 2025 23:01

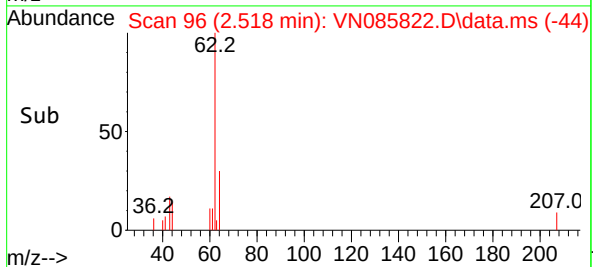
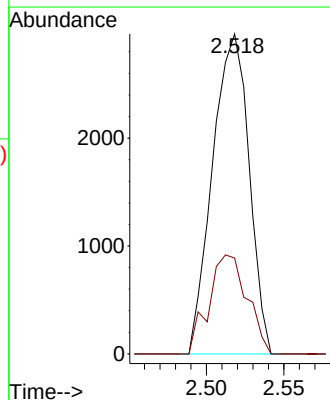
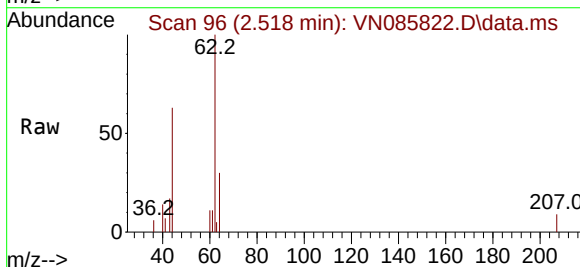
Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325

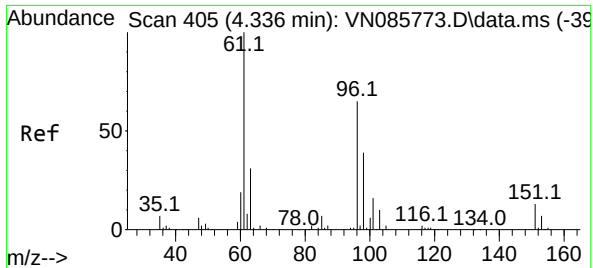
Tgt Ion:168 Resp: 285100
Ion Ratio Lower Upper
168 100
99 59.7 47.9 71.9



#4
Vinyl Chloride
Concen: 1.178 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN085822.D
Acq: 21 Feb 2025 23:01

Tgt Ion: 62 Resp: 4855
Ion Ratio Lower Upper
62 100
64 30.0 25.9 38.9

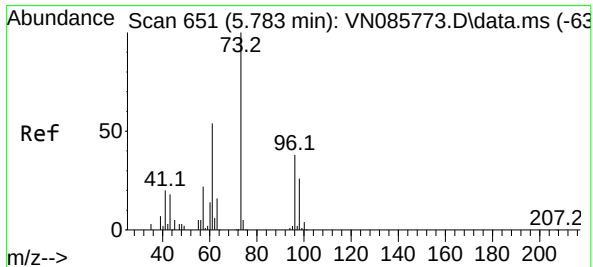
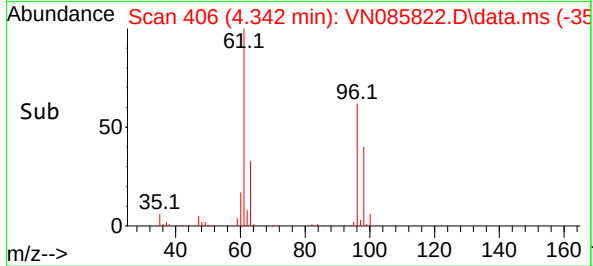
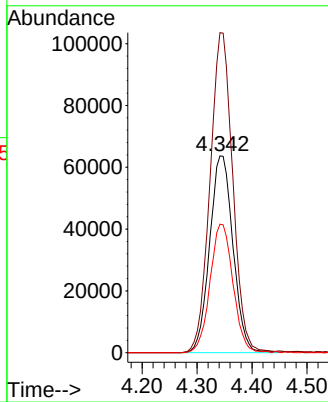
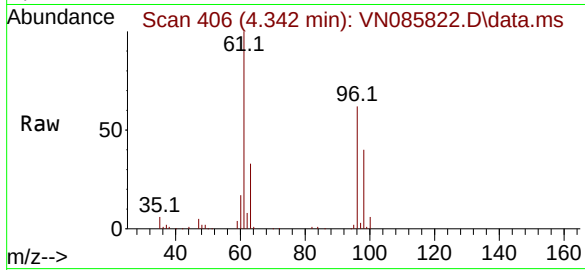




#12
1,1-Dichloroethene
Concen: 60.213 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN085822.D
Acq: 21 Feb 2025 23:01

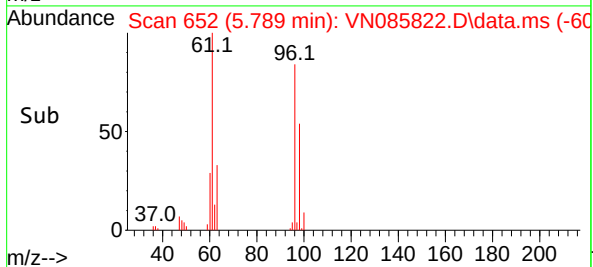
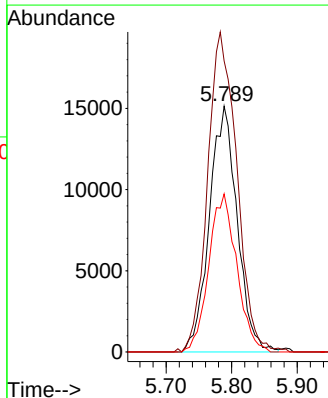
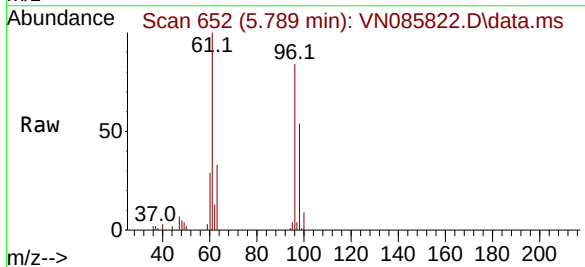
Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325

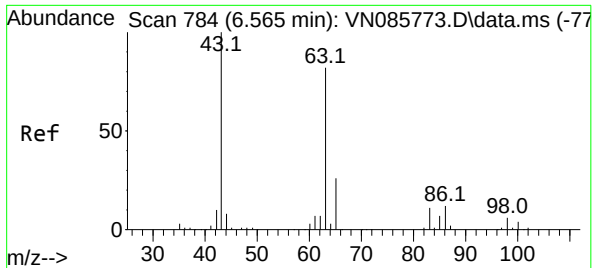
Tgt Ion: 96 Resp: 188256
Ion Ratio Lower Upper
96 100
61 162.6 123.3 184.9
98 65.3 48.6 72.8



#21
trans-1,2-Dichloroethene
Concen: 13.257 ug/l
RT: 5.789 min Scan# 652
Delta R.T. 0.006 min
Lab File: VN085822.D
Acq: 21 Feb 2025 23:01

Tgt Ion: 96 Resp: 44630
Ion Ratio Lower Upper
96 100
61 117.1 112.6 168.8
98 64.3 53.3 79.9

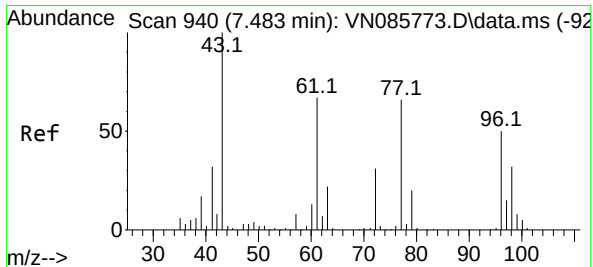
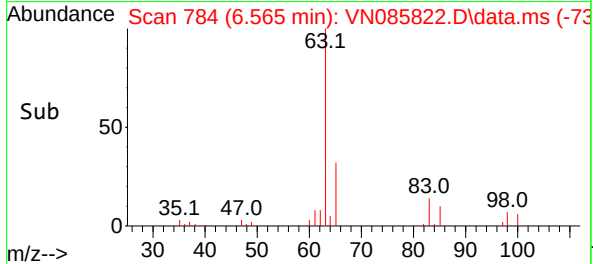
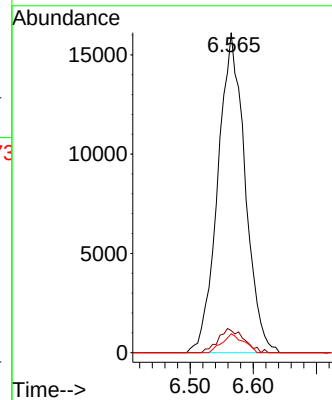
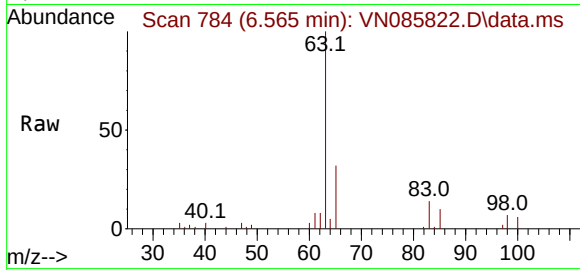




#24
1,1-Dichloroethane
Concen: 7.652 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085822.D
Acq: 21 Feb 2025 23:01

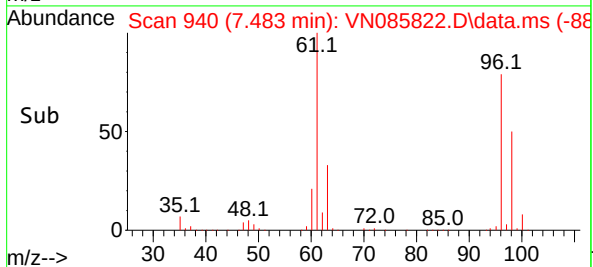
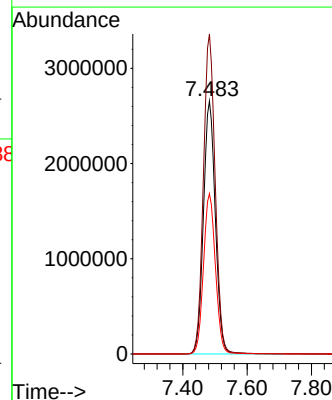
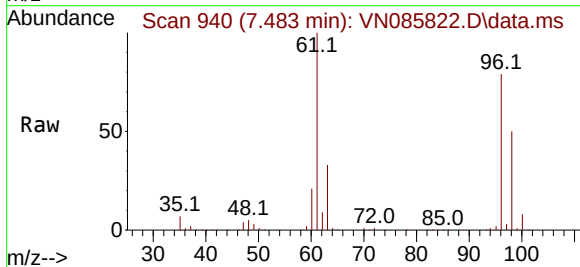
Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325

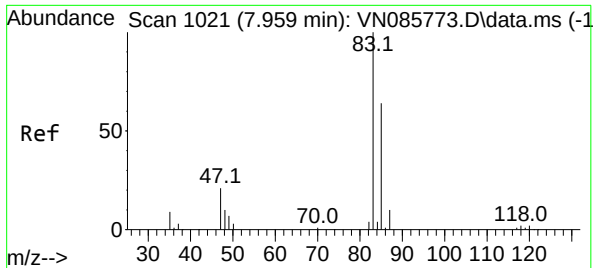
Tgt Ion:	63	Resp:	48248
Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.5	10.4
100	5.9	2.4	7.2



#27
cis-1,2-Dichloroethene
Concen: 1746.917 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085822.D
Acq: 21 Feb 2025 23:01

Tgt Ion:	96	Resp:	6819018
Ion	Ratio	Lower	Upper
96	100		
61	125.6	0.0	280.6
98	63.7	0.0	128.6





#30

Chloroform

Concen: 0.938 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. -0.006 min

Lab File: VN085822.D

Acq: 21 Feb 2025 23:01

Instrument :

MSVOA_N

ClientSampleId :

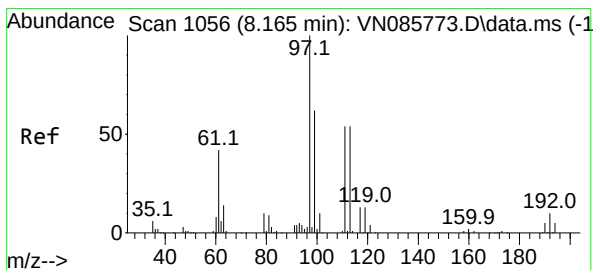
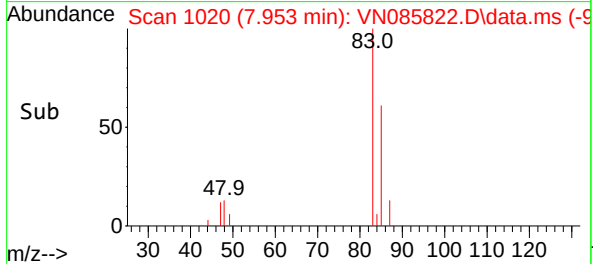
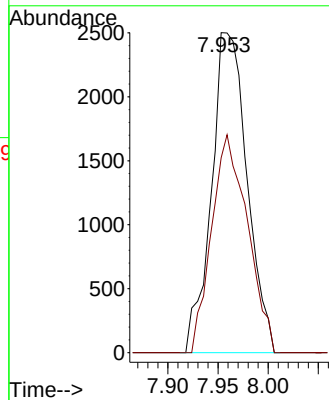
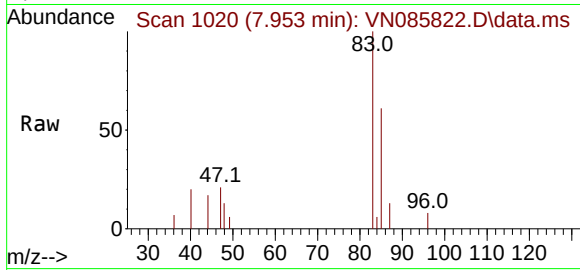
MW-04-021325

Tgt Ion: 83 Resp: 6184

Ion Ratio Lower Upper

83 100

85 60.9 50.9 76.3



#32

1,1,1-Trichloroethane

Concen: 13.581 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085822.D

Acq: 21 Feb 2025 23:01

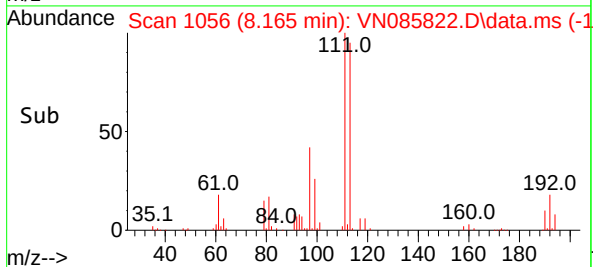
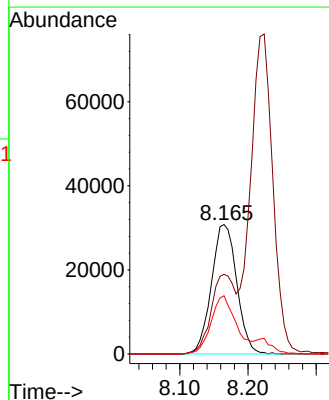
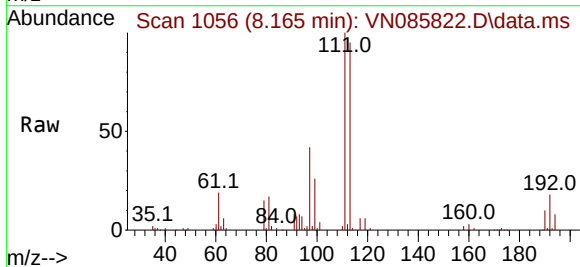
Tgt Ion: 97 Resp: 79594

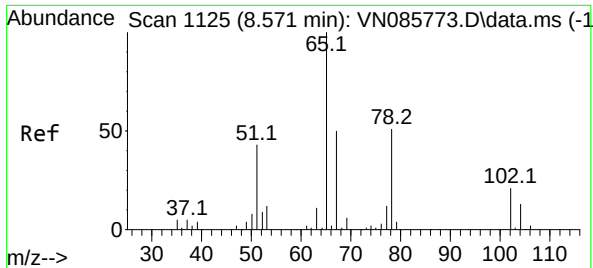
Ion Ratio Lower Upper

97 100

99 57.3 50.4 75.6

61 44.9 35.5 53.3





#33

1,2-Dichloroethane-d4

Concen: 52.021 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085822.D

Acq: 21 Feb 2025 23:01

Instrument :

MSVOA_N

ClientSampleId :

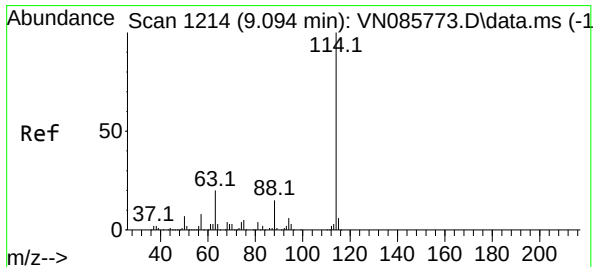
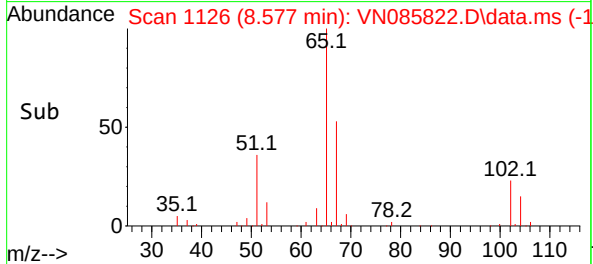
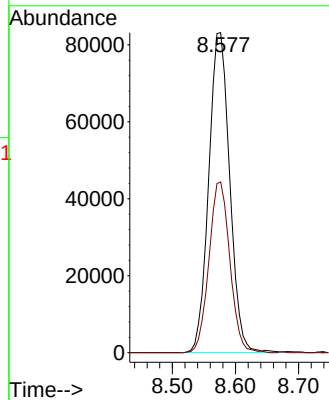
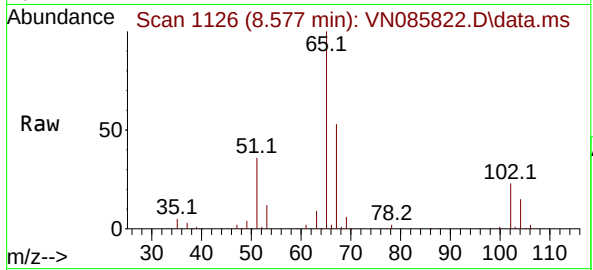
MW-04-021325

Tgt Ion: 65 Resp: 192280

Ion Ratio Lower Upper

65 100

67 53.1 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085822.D

Acq: 21 Feb 2025 23:01

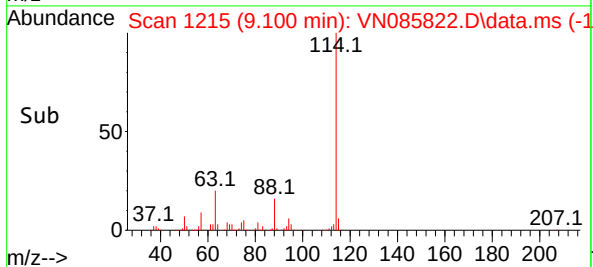
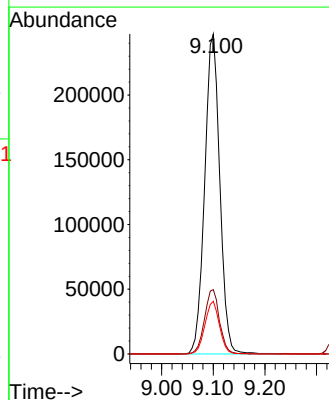
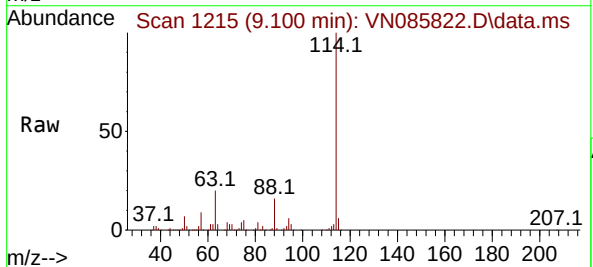
Tgt Ion: 114 Resp: 501960

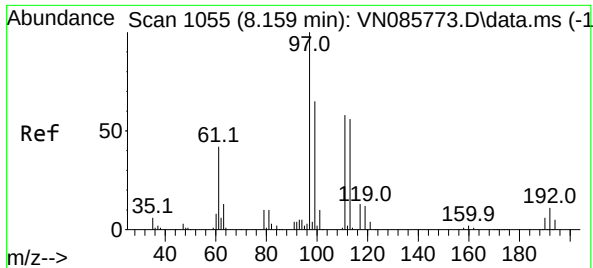
Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.2

88 16.5 0.0 30.0





#35

Dibromofluoromethane

Concen: 52.376 ug/l

RT: 8.159 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VN085822.D

Acq: 21 Feb 2025 23:01

Instrument :

MSVOA_N

ClientSampleId :

MW-04-021325

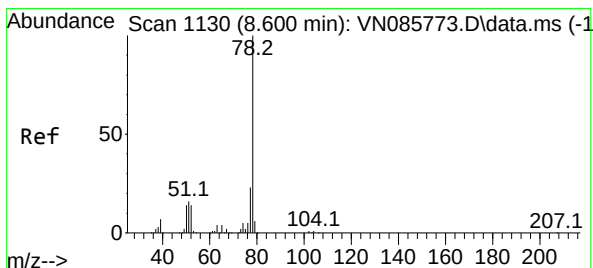
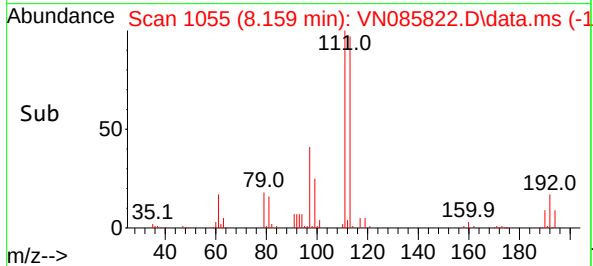
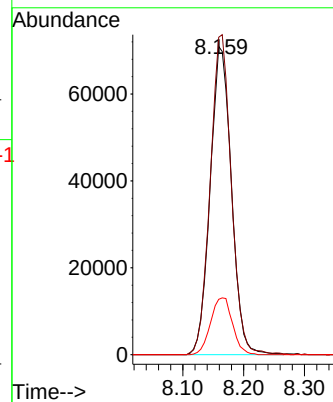
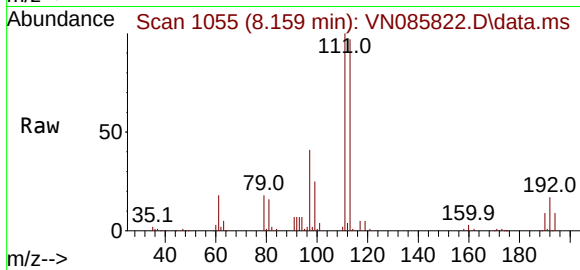
Tgt Ion:113 Resp: 172034

Ion Ratio Lower Upper

113 100

111 102.9 82.2 123.4

192 19.0 14.7 22.1



#40

Benzene

Concen: 0.782 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN085822.D

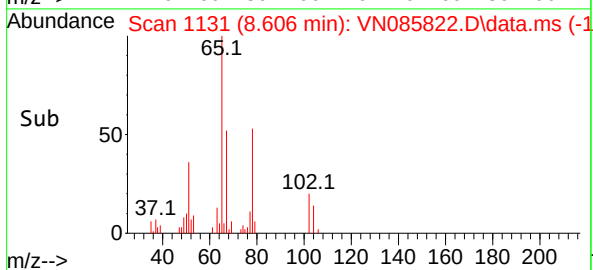
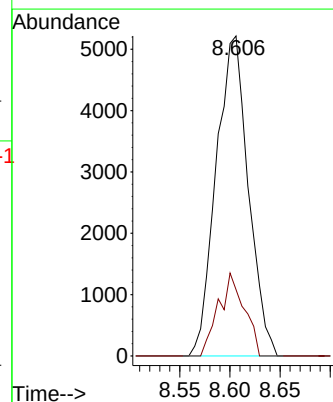
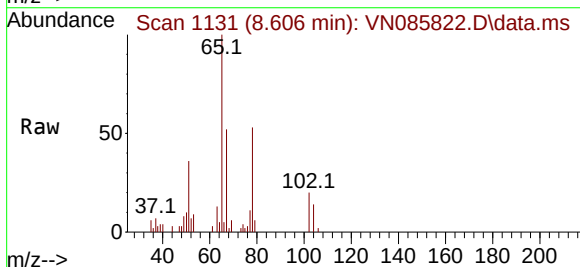
Acq: 21 Feb 2025 23:01

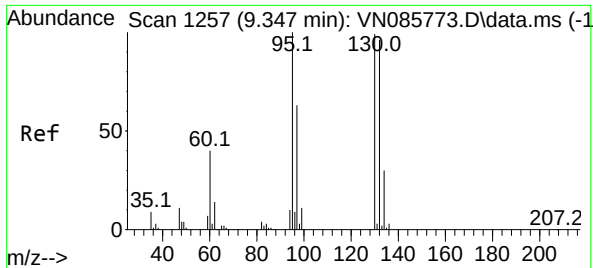
Tgt Ion: 78 Resp: 11646

Ion Ratio Lower Upper

78 100

77 20.8 18.3 27.5

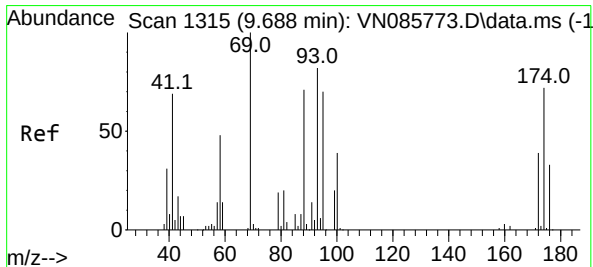
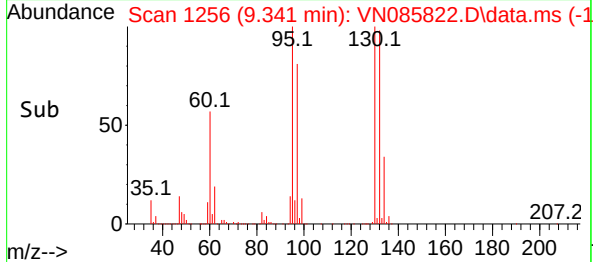
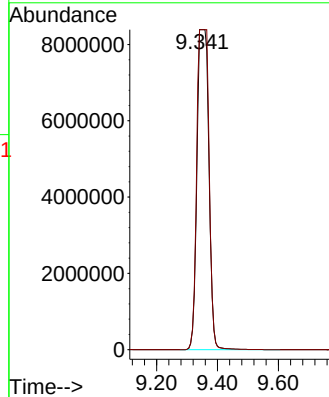
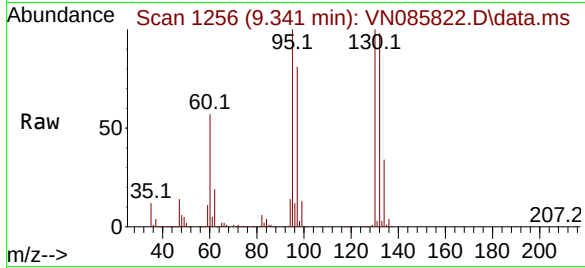




#44
Trichloroethene
Concen: 6208.955 ug/l
RT: 9.341 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085822.D
Acq: 21 Feb 2025 23:01

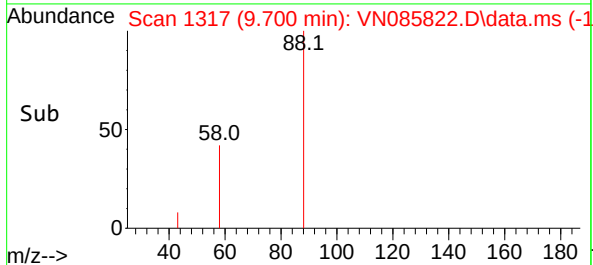
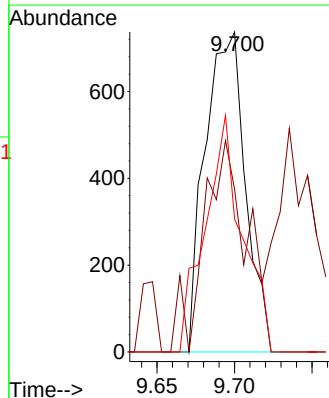
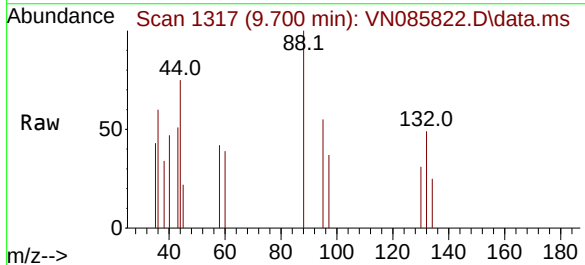
Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325

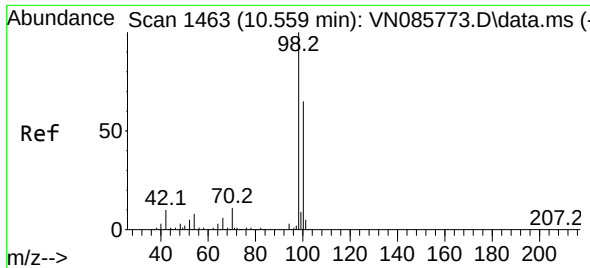
Tgt Ion:130 Resp:22713356
Ion Ratio Lower Upper
130 100
95 100.0 0.0 202.6



#49
1,4-Dioxane
Concen: 24.655 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.012 min
Lab File: VN085822.D
Acq: 21 Feb 2025 23:01

Tgt Ion: 88 Resp: 1332
Ion Ratio Lower Upper
88 100
43 70.3 18.6 27.8#
58 68.5 56.7 85.1

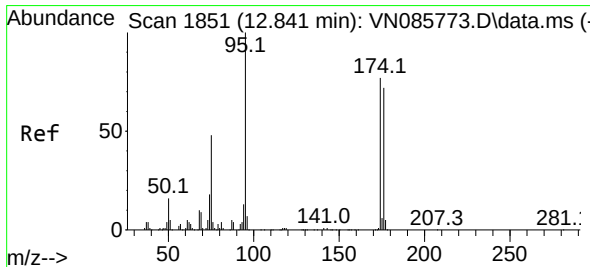
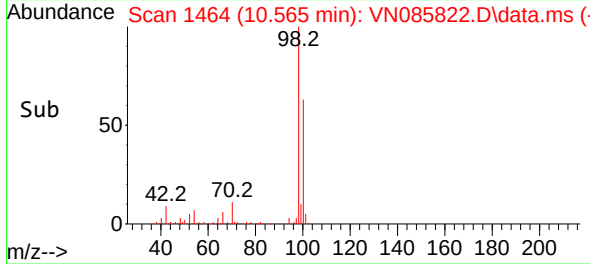
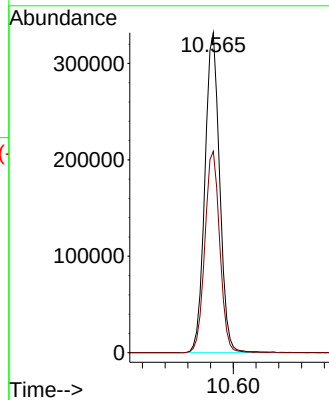
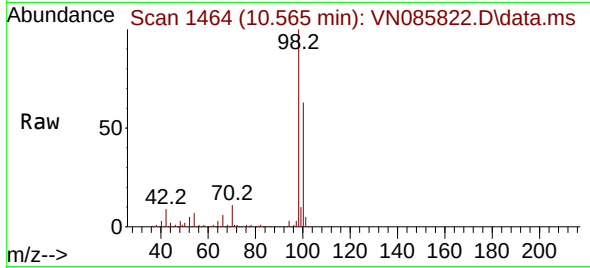




#50
Toluene-d8
Concen: 50.015 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085822.D
Acq: 21 Feb 2025 23:01

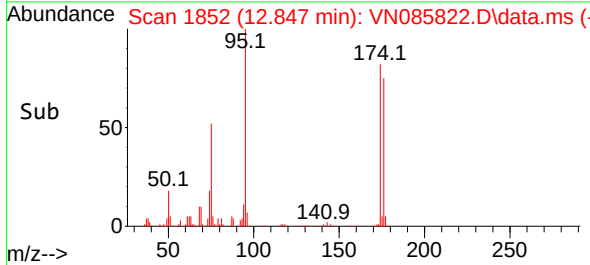
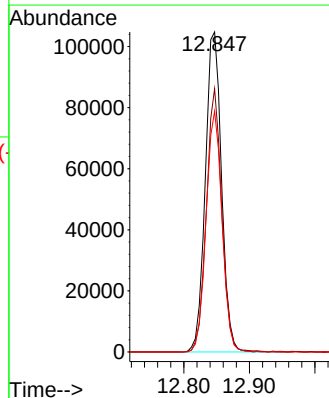
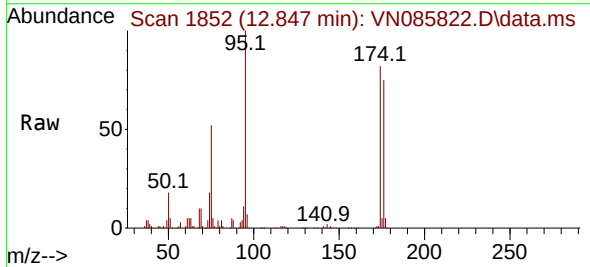
Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325

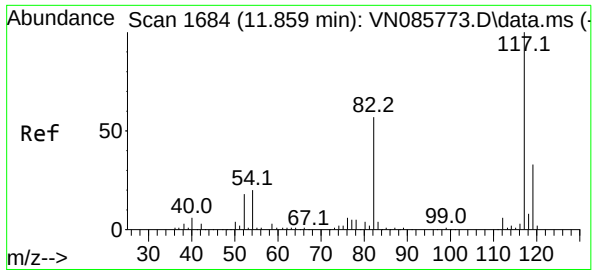
Tgt Ion: 98 Resp: 597693
Ion Ratio Lower Upper
98 100
100 63.5 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 45.811 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085822.D
Acq: 21 Feb 2025 23:01

Tgt Ion: 95 Resp: 180373
Ion Ratio Lower Upper
95 100
174 78.2 0.0 152.4
176 73.9 0.0 146.6

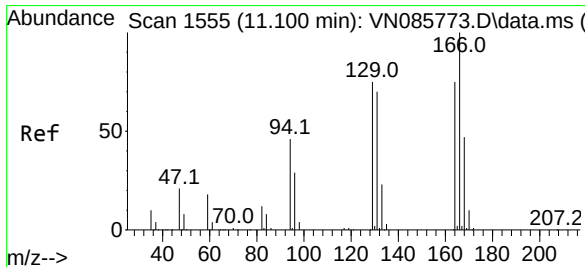
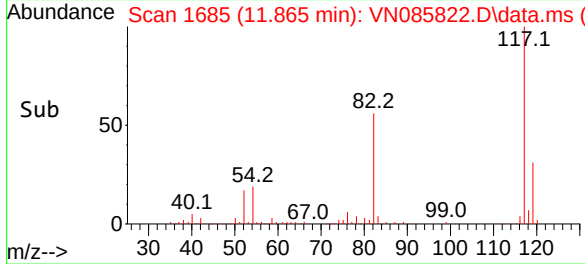
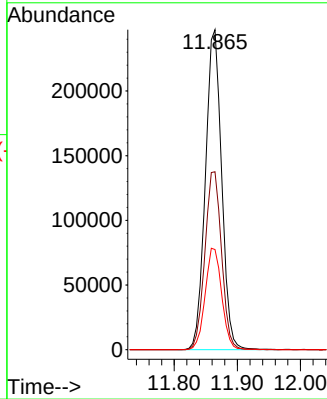
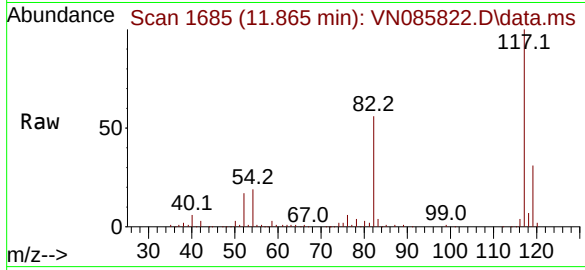




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN085822.D
Acq: 21 Feb 2025 23:01

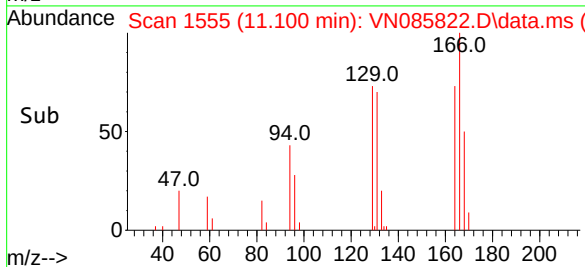
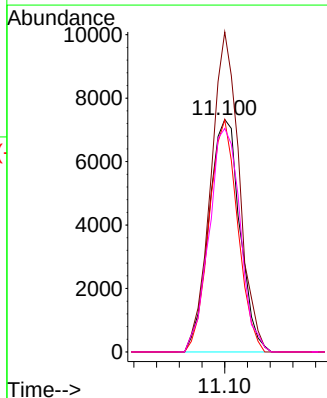
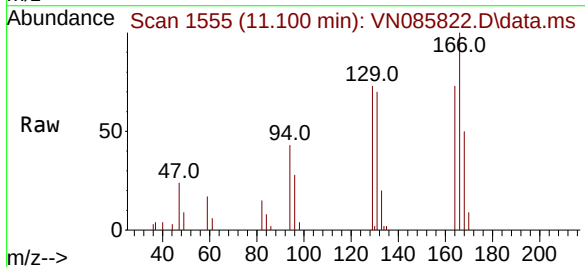
Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325

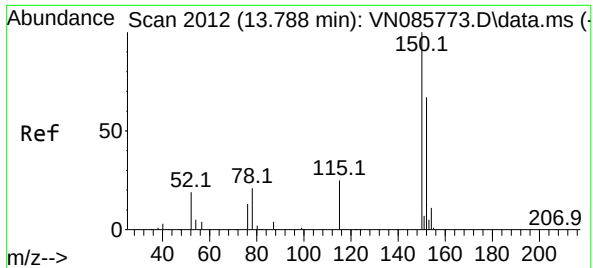
Tgt Ion:117 Resp: 442801
Ion Ratio Lower Upper
117 100
82 55.6 45.7 68.5
119 31.3 26.2 39.2



#64
Tetrachloroethene
Concen: 4.055 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085822.D
Acq: 21 Feb 2025 23:01

Tgt Ion:164 Resp: 13909
Ion Ratio Lower Upper
164 100
166 137.6 107.2 160.8
129 99.8 80.7 121.1
131 96.1 74.6 112.0

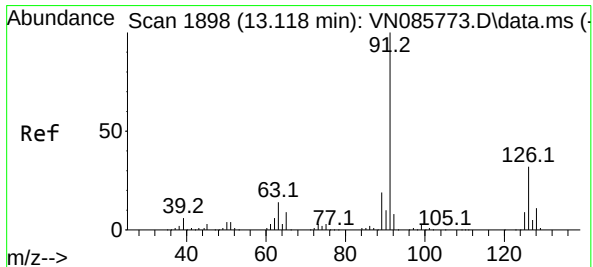
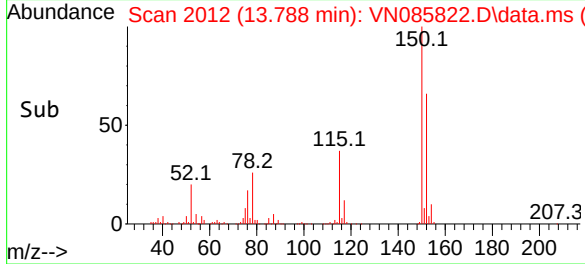
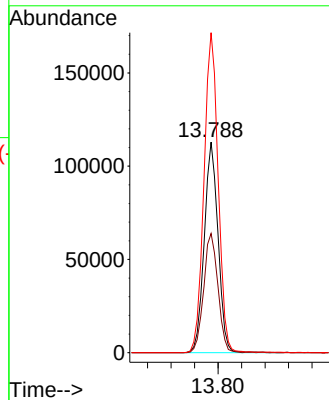
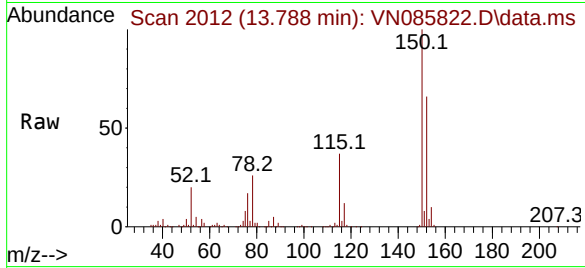




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085822.D
Acq: 21 Feb 2025 23:01

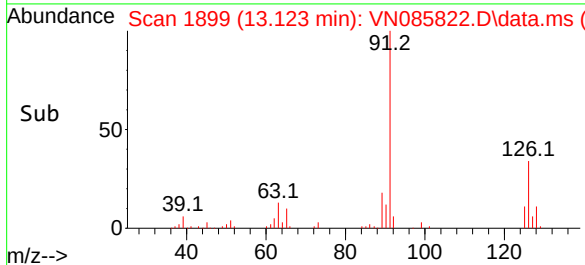
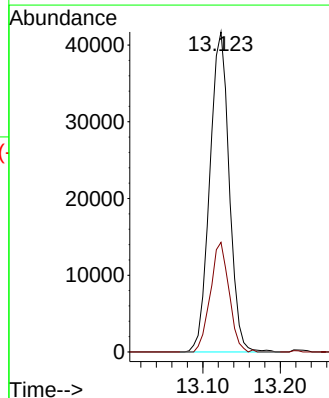
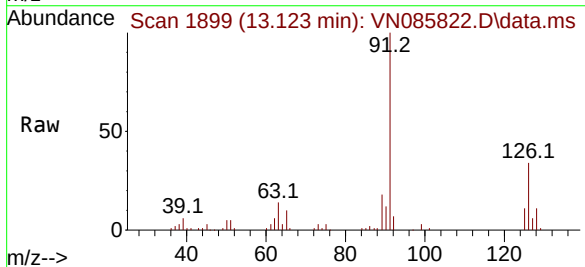
Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325

Tgt Ion:152 Resp: 183668
Ion Ratio Lower Upper
152 100
115 58.3 30.4 91.3
150 155.8 0.0 345.4



#79
2-Chlorotoluene
Concen: 7.531 ug/l
RT: 13.123 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VN085822.D
Acq: 21 Feb 2025 23:01

Tgt Ion: 91 Resp: 72514
Ion Ratio Lower Upper
91 100
126 33.0 16.4 49.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085822.D
Acq On : 21 Feb 2025 23:01
Operator : JC\MD
Sample : Q1405-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Title : SW846 8260

Signal : TIC: VN085822.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.483	925	940	976	rBV	11293364	28891423	19.16%	15.943%
2	9.353	1246	1258	1296	rBV2	66071185	150798570	100.00%	83.212%
3	10.565	1455	1464	1487	rBV	838915	1531278	1.02%	0.845%

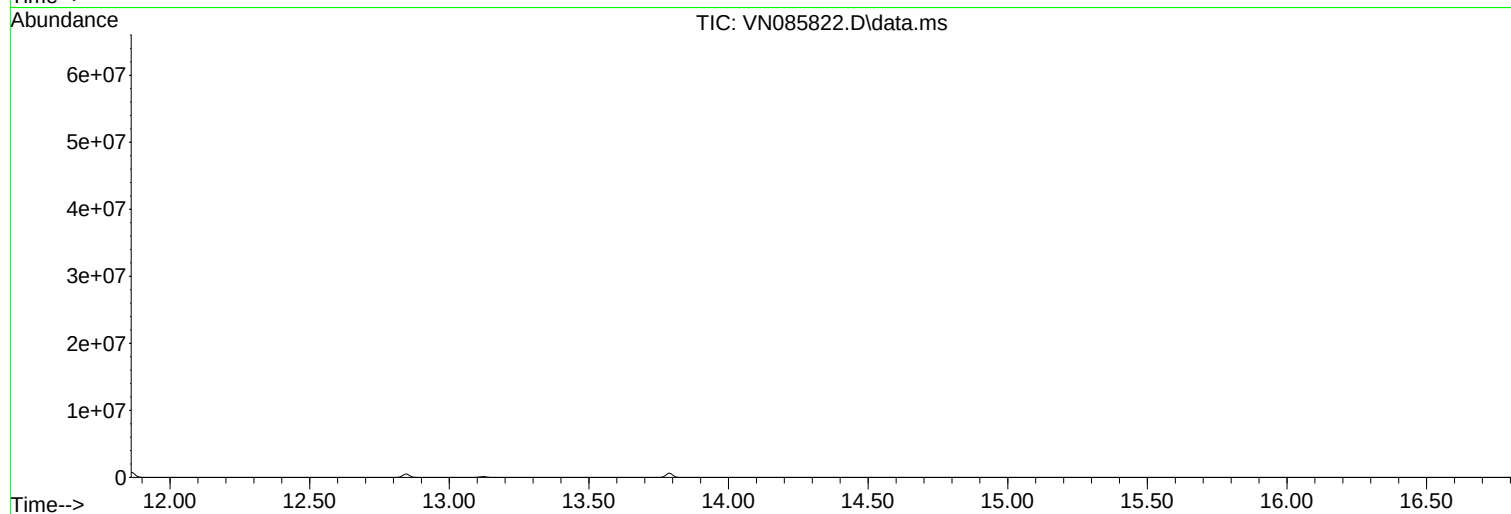
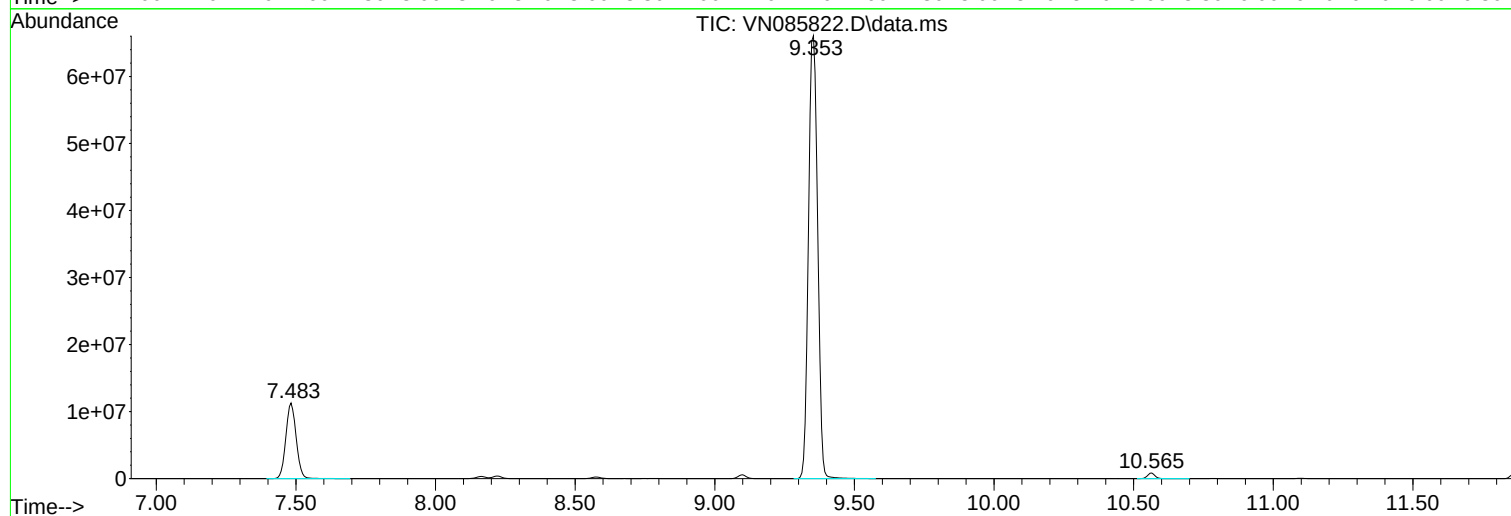
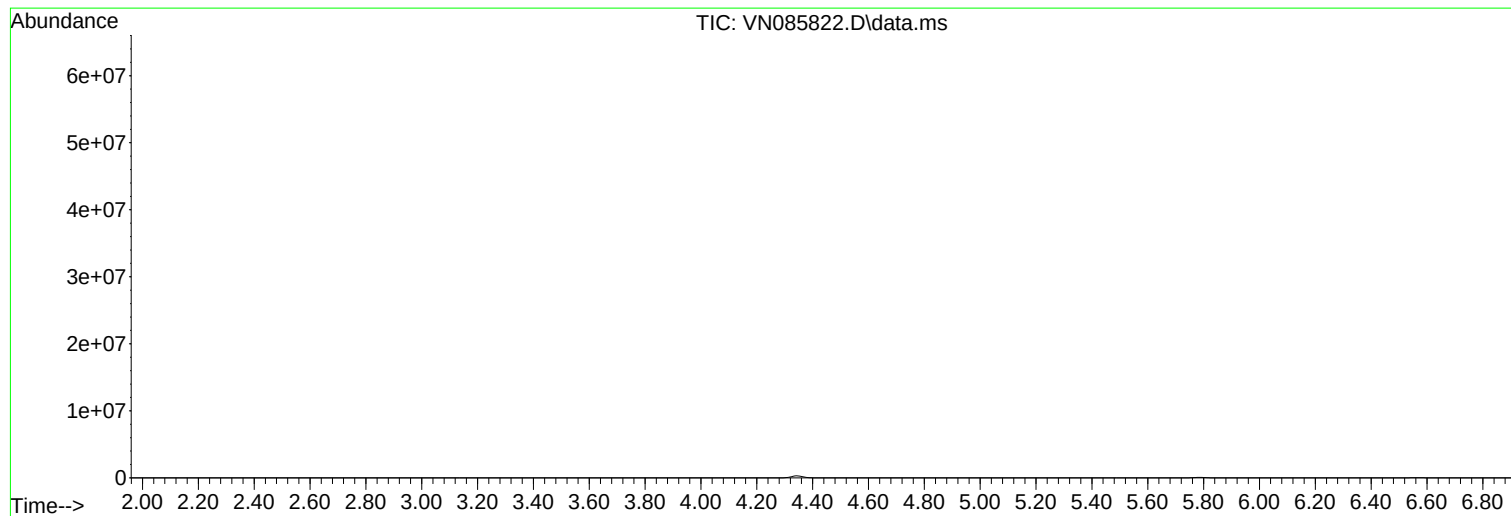
Sum of corrected areas: 181221271

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085822.D
Acq On : 21 Feb 2025 23:01
Operator : JC\MD
Sample : Q1405-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085822.D
Acq On : 21 Feb 2025 23:01
Operator : JC\MD
Sample : Q1405-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085822.D
Acq On : 21 Feb 2025 23:01
Operator : JC\MD
Sample : Q1405-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	02/13/25
Project:	REAC Commodore	Date Received:	02/21/25
Client Sample ID:	MW-04-021325DL	SDG No.:	Q1405
Lab Sample ID:	Q1405-02DL	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085834.D	250		02/24/25 14:00	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	52.5	UD	52.5	250	ug/L
74-87-3	Chloromethane	87.5	UD	87.5	250	ug/L
75-01-4	Vinyl Chloride	85.0	UD	85.0	250	ug/L
74-83-9	Bromomethane	340	UD	340	1300	ug/L
75-00-3	Chloroethane	140	UD	140	250	ug/L
75-69-4	Trichlorofluoromethane	85.0	UD	85.0	250	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	62.5	UD	62.5	250	ug/L
75-35-4	1,1-Dichloroethene	65.0	UD	65.0	250	ug/L
67-64-1	Acetone	350	UD	350	1300	ug/L
75-15-0	Carbon Disulfide	80.0	UD	80.0	250	ug/L
1634-04-4	Methyl tert-butyl Ether	40.0	UD	40.0	250	ug/L
79-20-9	Methyl Acetate	150	UD	150	250	ug/L
75-09-2	Methylene Chloride	80.0	UD	80.0	250	ug/L
156-60-5	trans-1,2-Dichloroethene	62.5	UD	62.5	250	ug/L
75-34-3	1,1-Dichloroethane	57.5	UD	57.5	250	ug/L
110-82-7	Cyclohexane	410	UD	410	1300	ug/L
78-93-3	2-Butanone	330	UD	330	1300	ug/L
56-23-5	Carbon Tetrachloride	62.5	UD	62.5	250	ug/L
156-59-2	cis-1,2-Dichloroethene	1600	D	62.5	250	ug/L
74-97-5	Bromochloromethane	45.0	UDQ	45.0	250	ug/L
67-66-3	Chloroform	65.0	UD	65.0	250	ug/L
71-55-6	1,1,1-Trichloroethane	47.5	UD	47.5	250	ug/L
108-87-2	Methylcyclohexane	47.5	UD	47.5	250	ug/L
71-43-2	Benzene	40.0	UD	40.0	250	ug/L
107-06-2	1,2-Dichloroethane	60.0	UD	60.0	250	ug/L
79-01-6	Trichloroethene	8200	D	80.0	250	ug/L
78-87-5	1,2-Dichloropropane	47.5	UD	47.5	250	ug/L
75-27-4	Bromodichloromethane	60.0	UD	60.0	250	ug/L
108-10-1	4-Methyl-2-Pentanone	190	UDQ	190	1300	ug/L
108-88-3	Toluene	45.0	UD	45.0	250	ug/L

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/13/25	
Project:	REAC Commodore			Date Received:	02/21/25	
Client Sample ID:	MW-04-021325DL			SDG No.:	Q1405	
Lab Sample ID:	Q1405-02DL			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085834.D	250		02/24/25 14:00	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	52.5	UD	52.5	250	ug/L
10061-01-5	cis-1,3-Dichloropropene	45.0	UD	45.0	250	ug/L
79-00-5	1,1,2-Trichloroethane	52.5	UD	52.5	250	ug/L
591-78-6	2-Hexanone	280	UDQ	280	1300	ug/L
124-48-1	Dibromochloromethane	45.0	UD	45.0	250	ug/L
106-93-4	1,2-Dibromoethane	40.0	UD	40.0	250	ug/L
127-18-4	Tetrachloroethene	62.5	UD	62.5	250	ug/L
108-90-7	Chlorobenzene	32.5	UD	32.5	250	ug/L
100-41-4	Ethyl Benzene	40.0	UD	40.0	250	ug/L
179601-23-1	m/p-Xylenes	77.5	UD	77.5	500	ug/L
95-47-6	o-Xylene	35.0	UD	35.0	250	ug/L
100-42-5	Styrene	40.0	UD	40.0	250	ug/L
75-25-2	Bromoform	52.5	UDQ	52.5	250	ug/L
98-82-8	Isopropylbenzene	32.5	UD	32.5	250	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	67.5	UD	67.5	250	ug/L
541-73-1	1,3-Dichlorobenzene	60.0	UD	60.0	250	ug/L
106-46-7	1,4-Dichlorobenzene	67.5	UD	67.5	250	ug/L
95-50-1	1,2-Dichlorobenzene	47.5	UD	47.5	250	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	120	UD	120	250	ug/L
120-82-1	1,2,4-Trichlorobenzene	110	UD	110	250	ug/L
87-61-6	1,2,3-Trichlorobenzene	130	UD	130	250	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.1		74 - 125	110%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	47.5		86 - 113	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.3		77 - 121	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	227000	8.224			
540-36-3	1,4-Difluorobenzene	420000	9.1			
3114-55-4	Chlorobenzene-d5	359000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	127000	13.788			

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/13/25	
Project:	REAC Commodore			Date Received:	02/21/25	
Client Sample ID:	MW-04-021325DL			SDG No.:	Q1405	
Lab Sample ID:	Q1405-02DL			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085834.D	250		02/24/25 14:00	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022425\
 Data File : VN085834.D
 Acq On : 24 Feb 2025 14:00
 Operator : JC\MD
 Sample : Q1405-02DL 250X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-04-021325DL

Quant Time: Feb 25 01:53:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

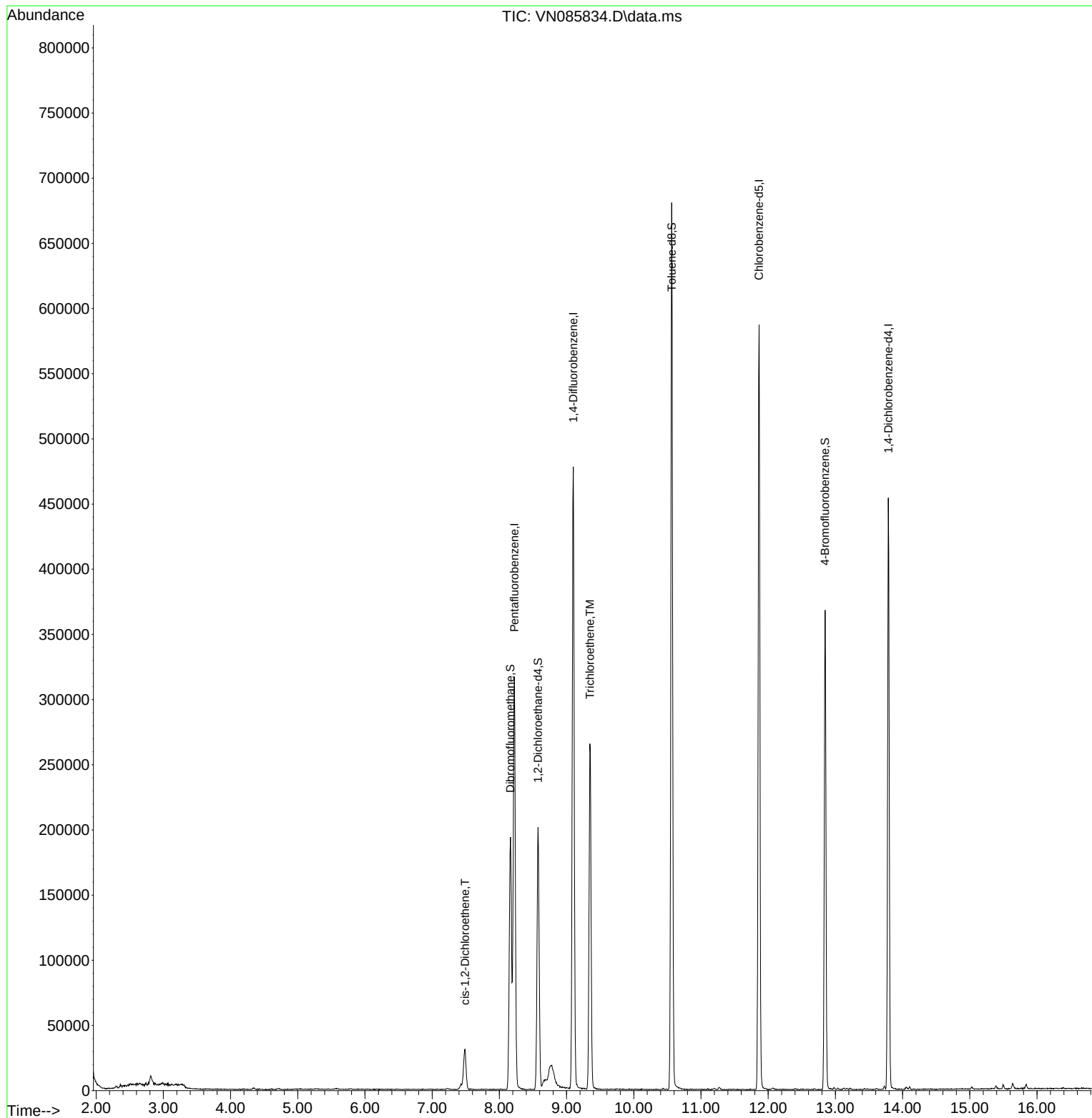
Internal Standards						
1) Pentafluorobenzene	8.224	168	227327	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	420422	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	359119	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127235	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	162359	55.089	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.180%			
35) Dibromofluoromethane	8.165	113	143309	52.093	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.180%			
50) Toluene-d8	10.565	98	475579	47.515	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.020%			
62) 4-Bromofluorobenzene	12.847	95	132906	40.302	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 80.600%			
Target Compounds						
27) cis-1,2-Dichloroethene	7.488	96	19649	6.313	ug/l	90
44) Trichloroethene	9.347	130	100090	32.667	ug/l	93

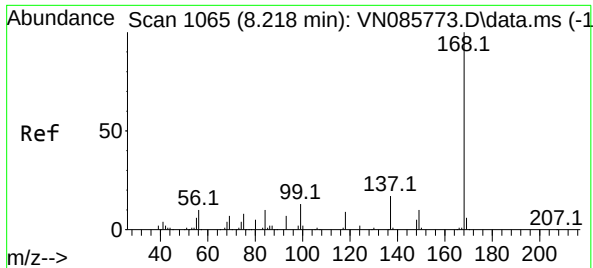
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085834.D
Acq On : 24 Feb 2025 14:00
Operator : JC\MD
Sample : Q1405-02DL 250X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325DL

Quant Time: Feb 25 01:53:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

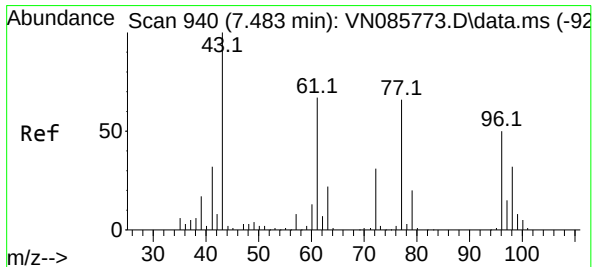
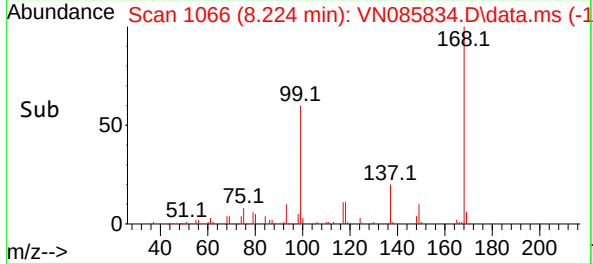
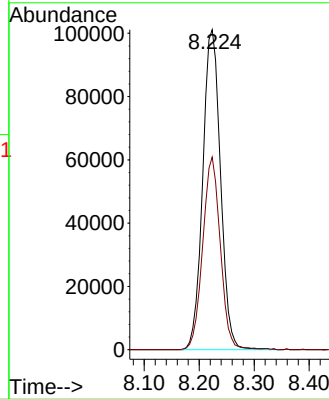
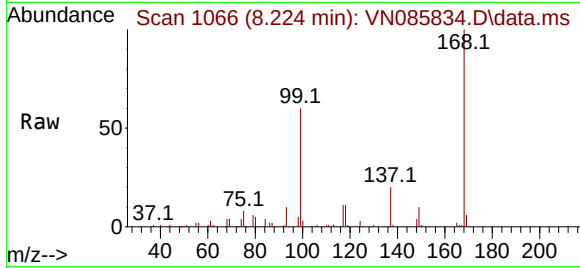




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085834.D
Acq: 24 Feb 2025 14:00

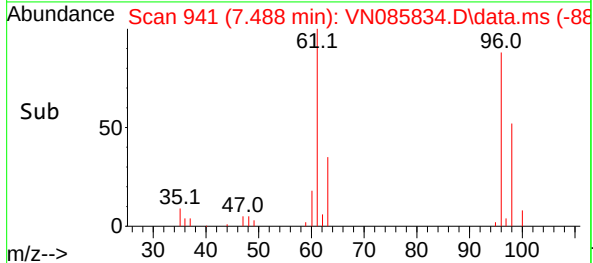
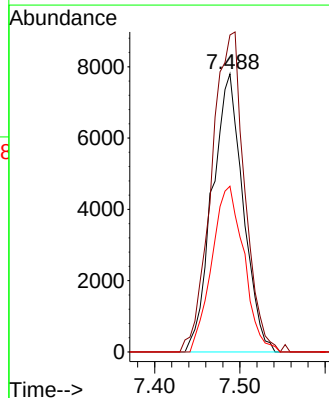
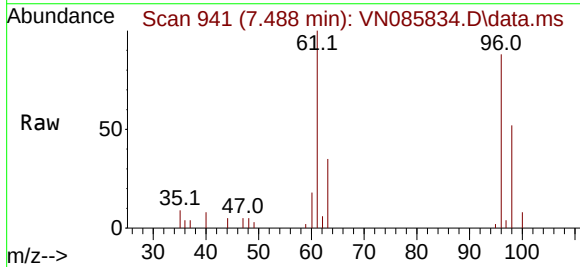
Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325DL

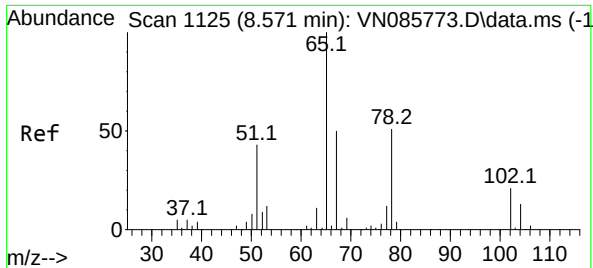
Tgt Ion:168 Resp: 227327
Ion Ratio Lower Upper
168 100
99 60.2 47.9 71.9



#27
cis-1,2-Dichloroethene
Concen: 6.313 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085834.D
Acq: 24 Feb 2025 14:00

Tgt Ion: 96 Resp: 19649
Ion Ratio Lower Upper
96 100
61 123.3 0.0 280.6
98 62.0 0.0 128.6





#33

1,2-Dichloroethane-d4

Concen: 55.089 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085834.D

Acq: 24 Feb 2025 14:00

Instrument :

MSVOA_N

ClientSampleId :

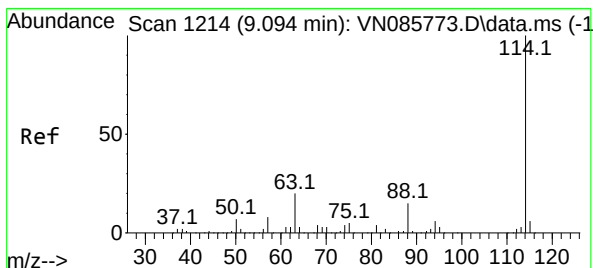
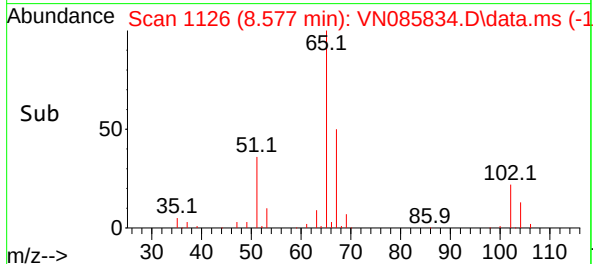
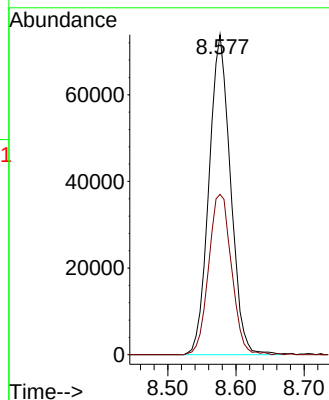
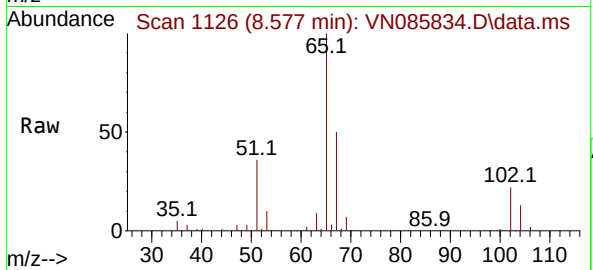
MW-04-021325DL

Tgt Ion: 65 Resp: 162359

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085834.D

Acq: 24 Feb 2025 14:00

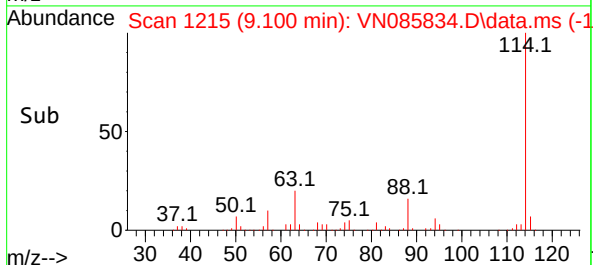
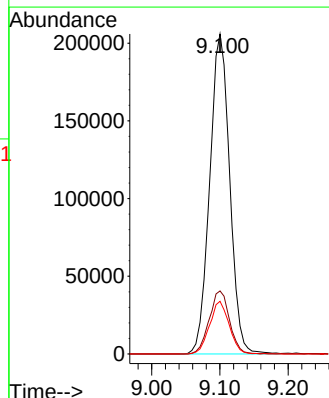
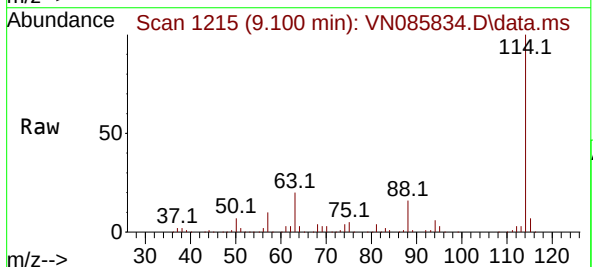
Tgt Ion: 114 Resp: 420422

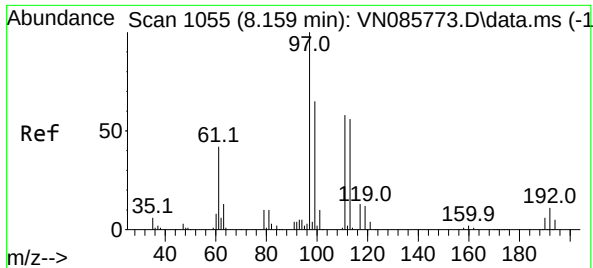
Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.2

88 16.4 0.0 30.0





#35

Dibromofluoromethane

Concen: 52.093 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085834.D

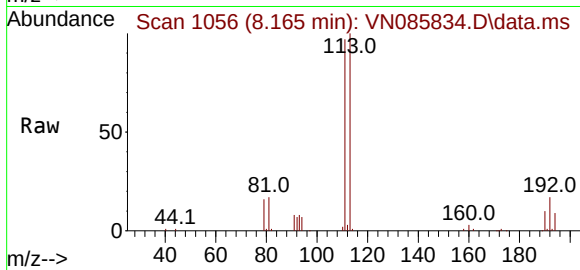
Acq: 24 Feb 2025 14:00

Instrument :

MSVOA_N

ClientSampleId :

MW-04-021325DL



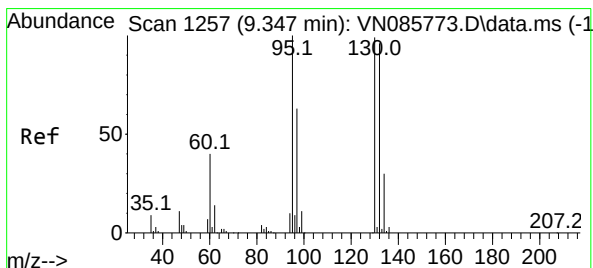
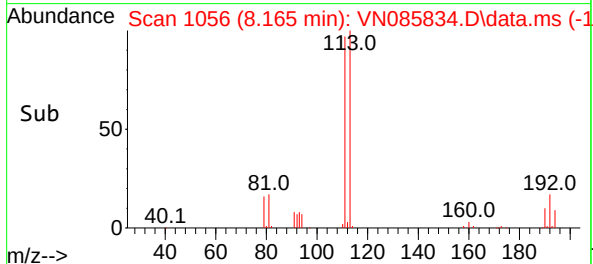
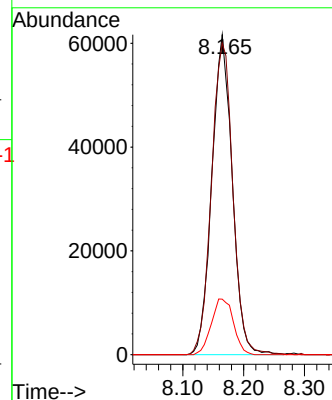
Tgt Ion:113 Resp: 143309

Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.4

192 18.9 14.7 22.1



#44

Trichloroethene

Concen: 32.667 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085834.D

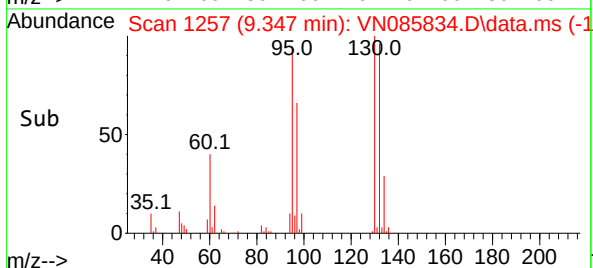
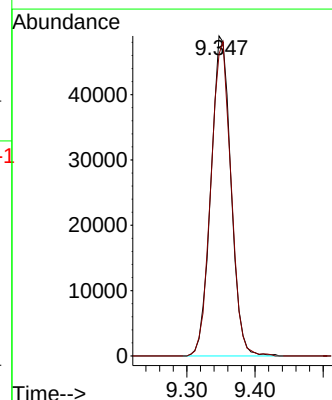
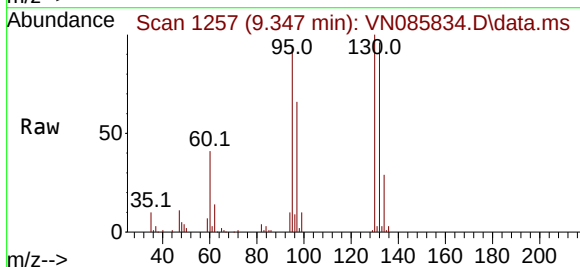
Acq: 24 Feb 2025 14:00

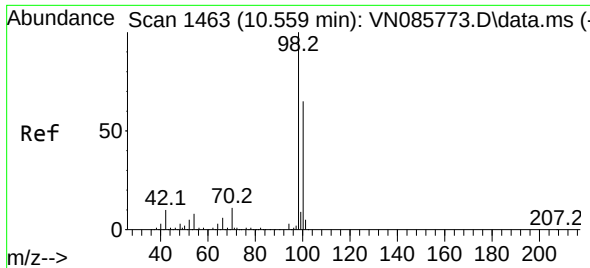
Tgt Ion:130 Resp: 100090

Ion Ratio Lower Upper

130 100

95 94.3 0.0 202.6

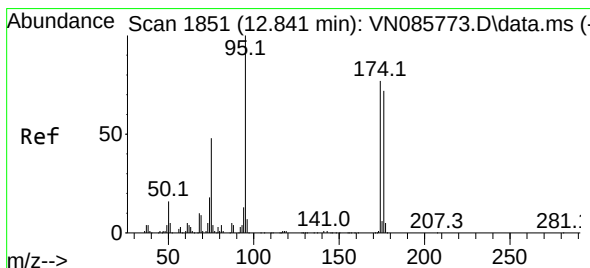
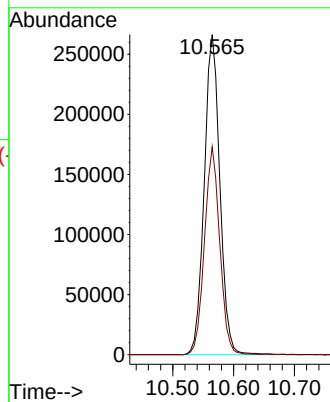
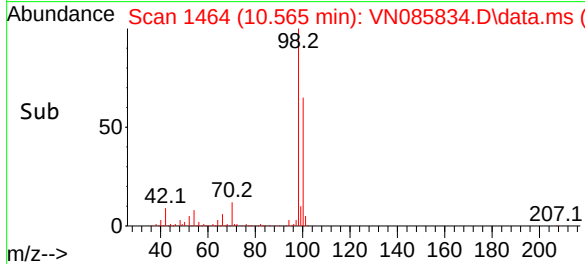
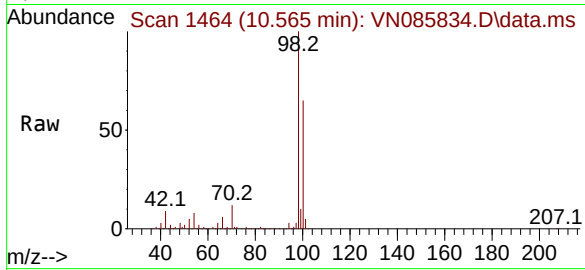




#50
Toluene-d8
Concen: 47.515 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085834.D
Acq: 24 Feb 2025 14:00

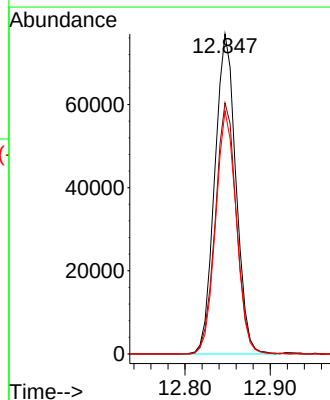
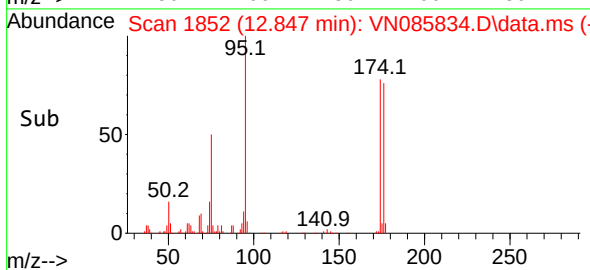
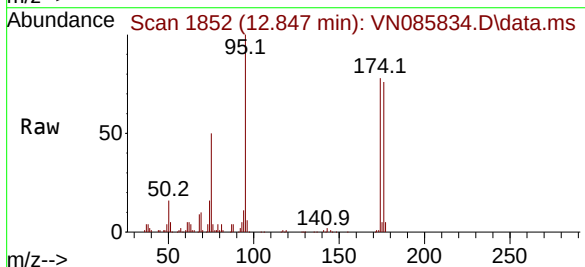
Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325DL

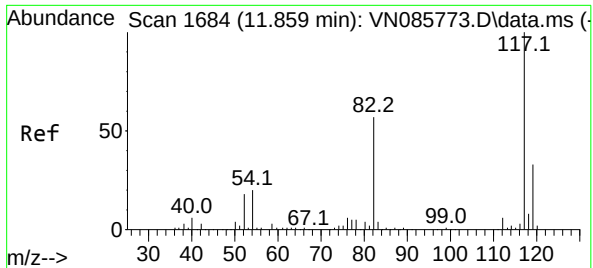
Tgt Ion: 98 Resp: 475579
Ion Ratio Lower Upper
98 100
100 63.5 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 40.302 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085834.D
Acq: 24 Feb 2025 14:00

Tgt Ion: 95 Resp: 132906
Ion Ratio Lower Upper
95 100
174 78.2 0.0 152.4
176 73.9 0.0 146.6

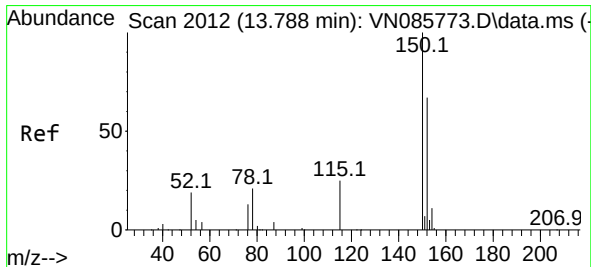
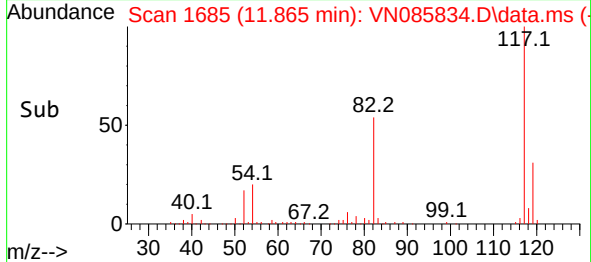
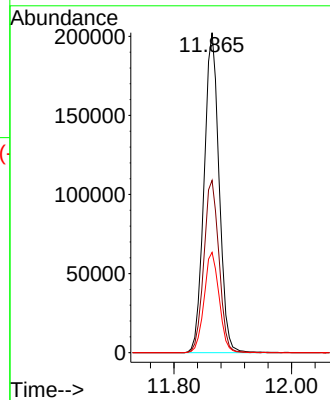
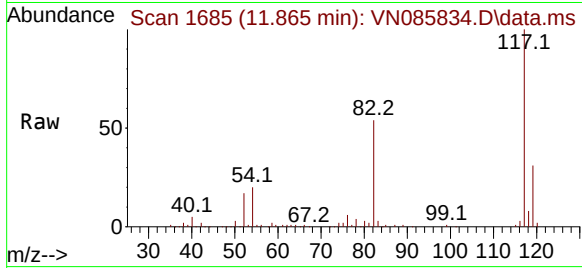




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN085834.D
Acq: 24 Feb 2025 14:00

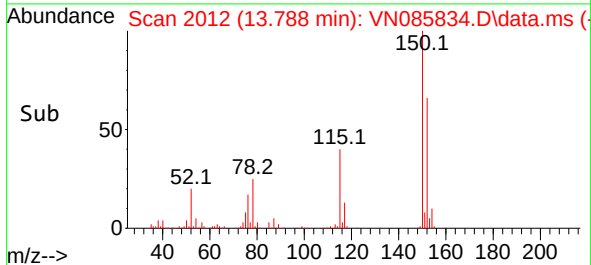
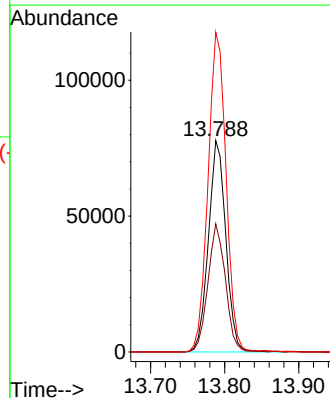
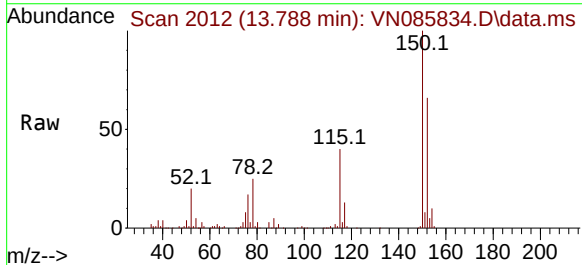
Instrument :
MSVOA_N
ClientSampleId :
MW-04-021325DL

Tgt Ion:117 Resp: 359119
Ion Ratio Lower Upper
117 100
82 53.8 45.7 68.5
119 31.4 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085834.D
Acq: 24 Feb 2025 14:00

Tgt Ion:152 Resp: 127235
Ion Ratio Lower Upper
152 100
115 60.8 30.4 91.3
150 156.0 0.0 345.4



Report of Analysis

Client:	TechLaw Consultants, Inc		Date Collected:	02/13/25	
Project:	REAC Commodore		Date Received:	02/21/25	
Client Sample ID:	MW-20D-021325		SDG No.:	Q1405	
Lab Sample ID:	Q1405-03		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085835.D	1		02/24/25 14:24	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.60		0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	UQ	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	3.30		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	UQ	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/13/25	
Project:	REAC Commodore			Date Received:	02/21/25	
Client Sample ID:	MW-20D-021325			SDG No.:	Q1405	
Lab Sample ID:	Q1405-03			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085835.D	1		02/24/25 14:24	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	UQ	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.97	J	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	UQ	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.7		74 - 125	113%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		75 - 124	105%	SPK: 50
2037-26-5	Toluene-d8	48.0		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.6		77 - 121	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	226000	8.224			
540-36-3	1,4-Difluorobenzene	429000	9.1			
3114-55-4	Chlorobenzene-d5	376000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	145000	13.788			

Report of Analysis

Client:	TechLaw Consultants, Inc		Date Collected:	02/13/25	
Project:	REAC Commodore		Date Received:	02/21/25	
Client Sample ID:	MW-20D-021325		SDG No.:	Q1405	
Lab Sample ID:	Q1405-03		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085835.D	1		02/24/25 14:24	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022425\
 Data File : VN085835.D
 Acq On : 24 Feb 2025 14:24
 Operator : JC\MD
 Sample : Q1405-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-20D-021325

Quant Time: Feb 25 01:54:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

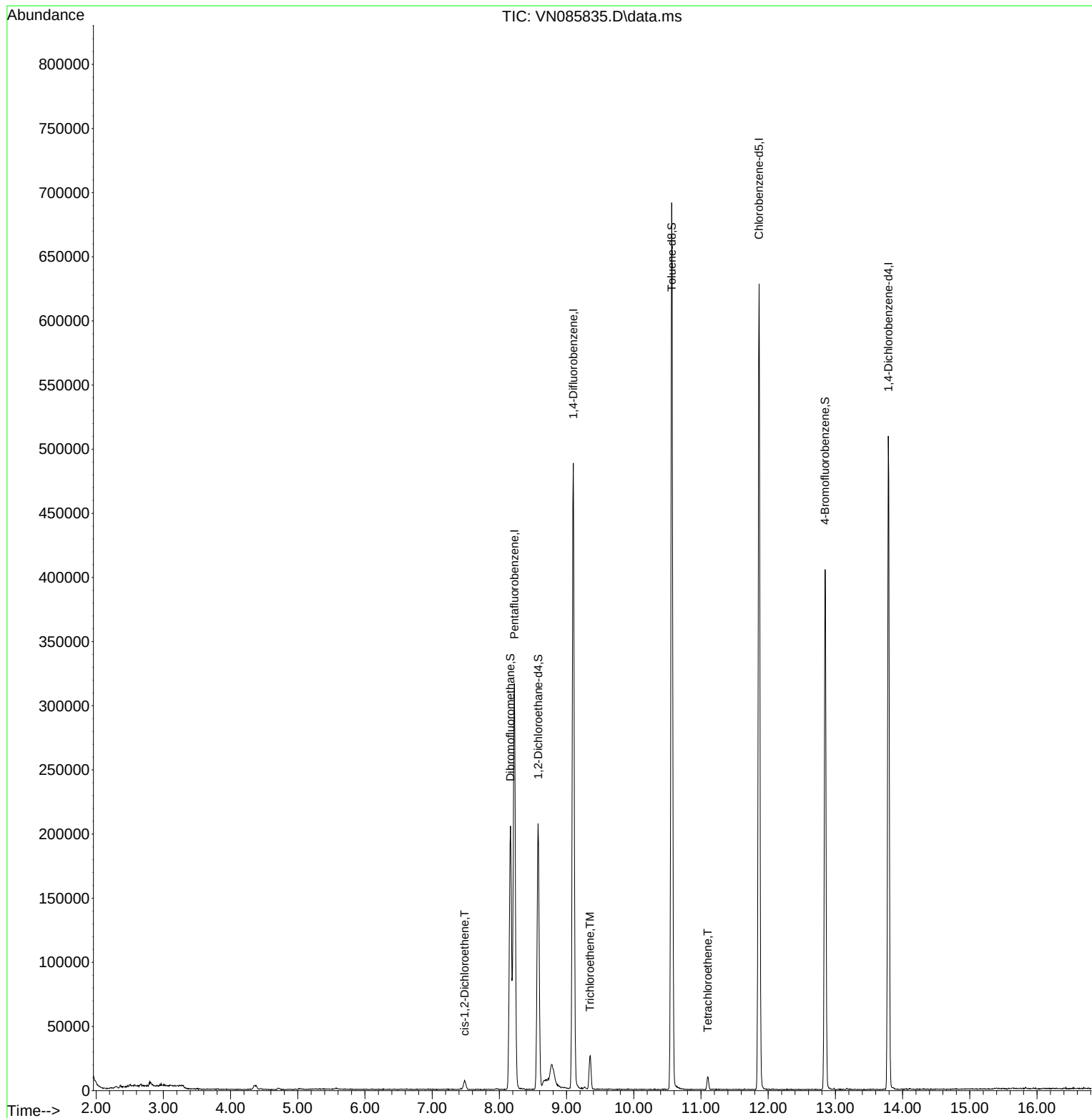
Internal Standards						
1) Pentafluorobenzene	8.224	168	225971	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	429272	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	376021	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	144563	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	166156	56.716	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.440%			
35) Dibromofluoromethane	8.165	113	148168	52.749	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.500%			
50) Toluene-d8	10.565	98	490388	47.984	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.960%			
62) 4-Bromofluorobenzene	12.847	95	146936	43.637	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 87.280%			
Target Compounds						Qvalue
27) cis-1,2-Dichloroethene	7.483	96	4897	1.583	ug/l	83
44) Trichloroethene	9.347	130	10367	3.314	ug/l	96
64) Tetrachloroethene	11.100	164	2812	0.965	ug/l #	74

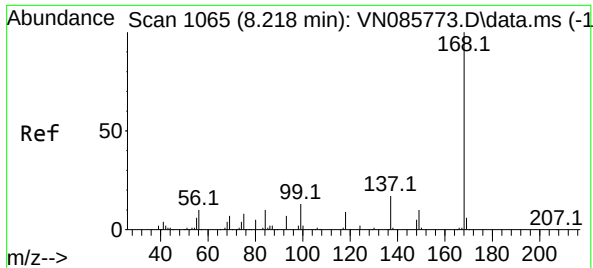
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085835.D
Acq On : 24 Feb 2025 14:24
Operator : JC\MD
Sample : Q1405-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-20D-021325

Quant Time: Feb 25 01:54:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

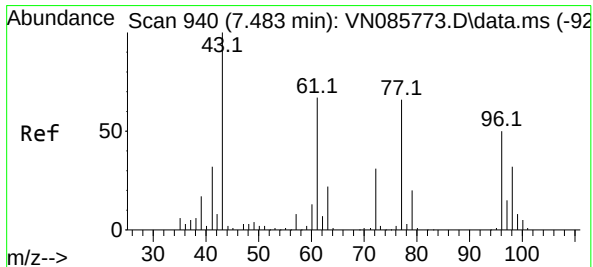
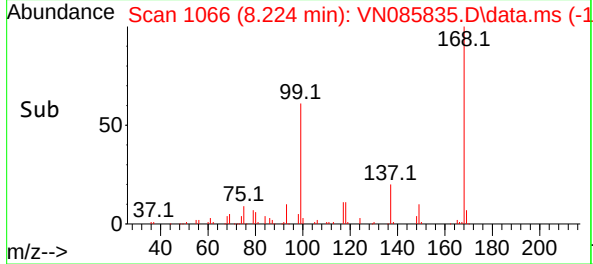
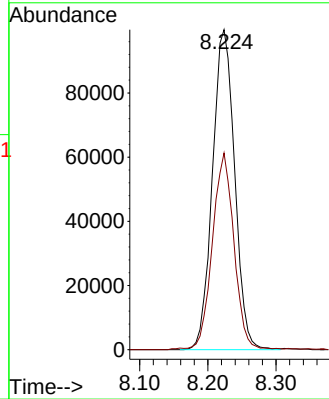
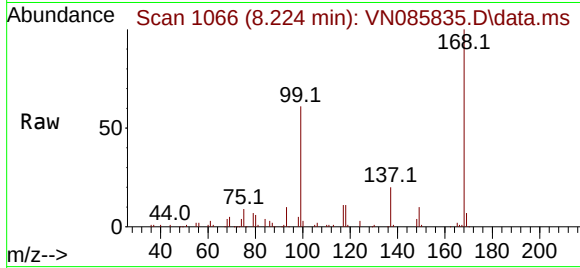




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085835.D
Acq: 24 Feb 2025 14:24

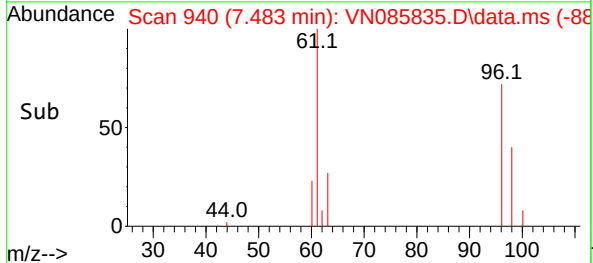
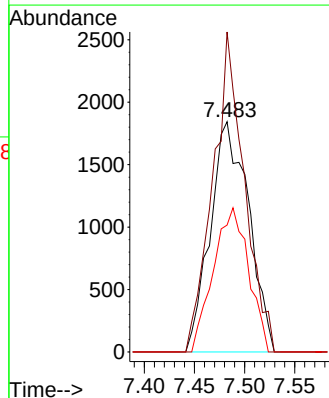
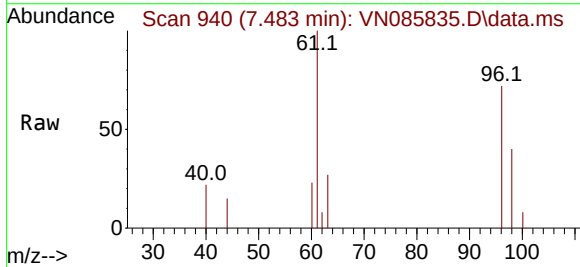
Instrument :
MSVOA_N
ClientSampleId :
MW-20D-021325

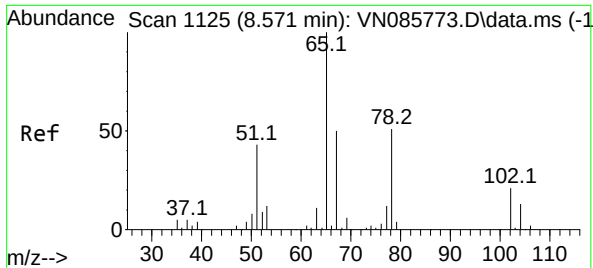
Tgt Ion:168 Resp: 225971
Ion Ratio Lower Upper
168 100
99 61.1 47.9 71.9



#27
cis-1,2-Dichloroethene
Concen: 1.583 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085835.D
Acq: 24 Feb 2025 14:24

Tgt Ion: 96 Resp: 4897
Ion Ratio Lower Upper
96 100
61 114.6 0.0 280.6
98 57.6 0.0 128.6





#33

1,2-Dichloroethane-d4

Concen: 56.716 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085835.D

Acq: 24 Feb 2025 14:24

Instrument :

MSVOA_N

ClientSampleId :

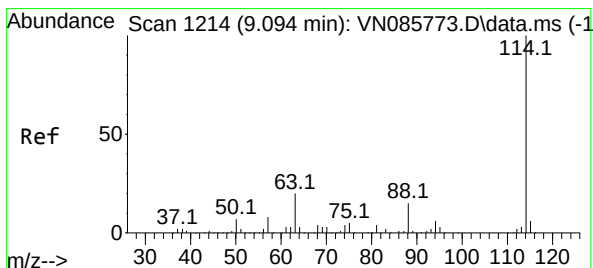
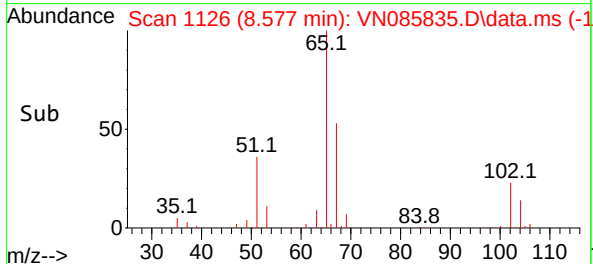
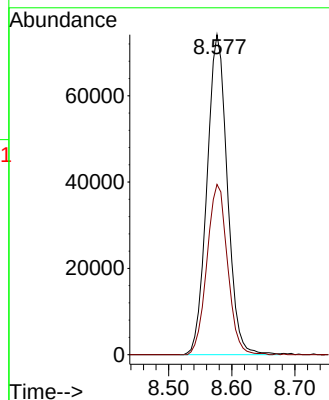
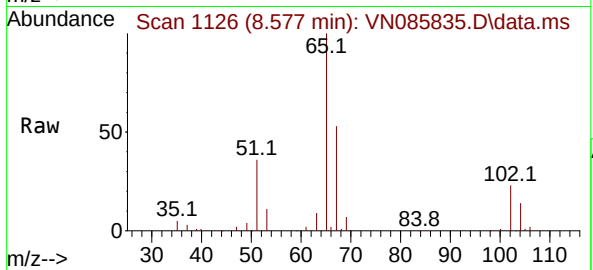
MW-20D-021325

Tgt Ion: 65 Resp: 166156

Ion Ratio Lower Upper

65 100

67 53.8 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085835.D

Acq: 24 Feb 2025 14:24

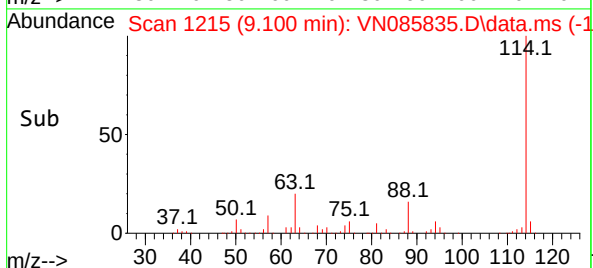
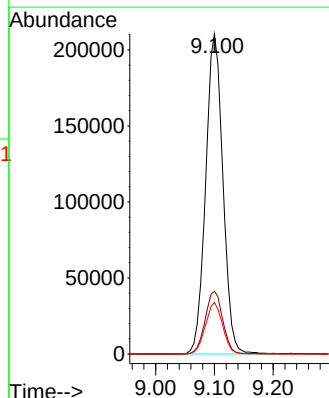
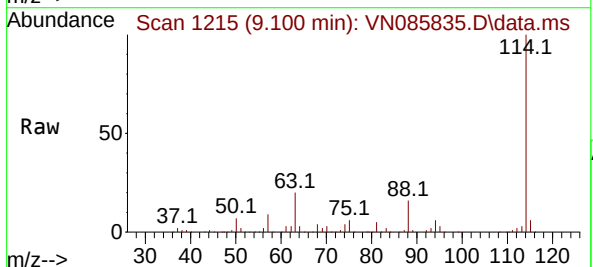
Tgt Ion: 114 Resp: 429272

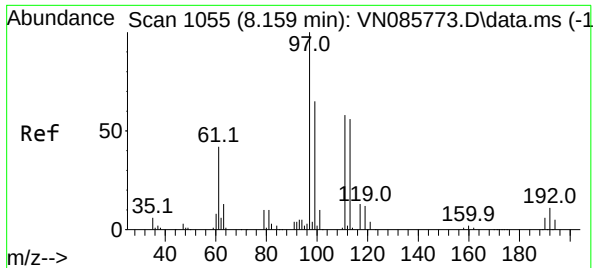
Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.2

88 16.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 52.749 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085835.D

Acq: 24 Feb 2025 14:24

Instrument :

MSVOA_N

ClientSampleId :

MW-20D-021325

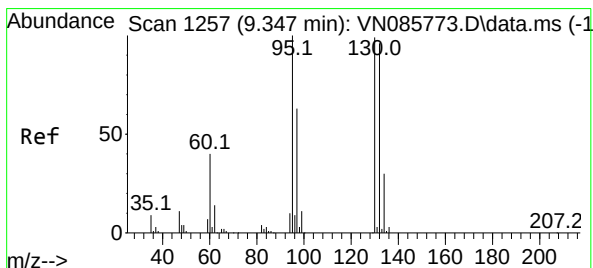
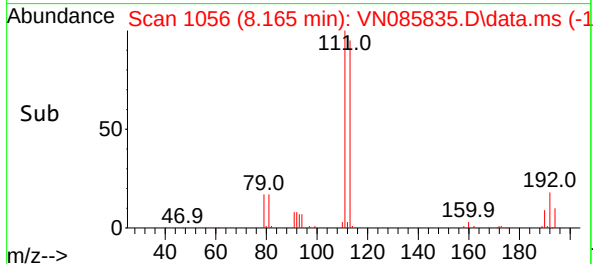
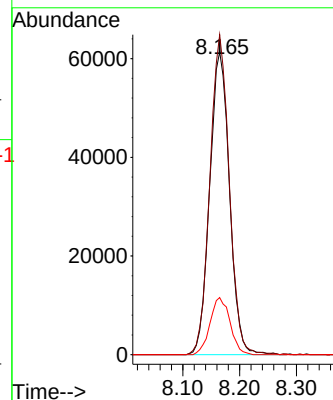
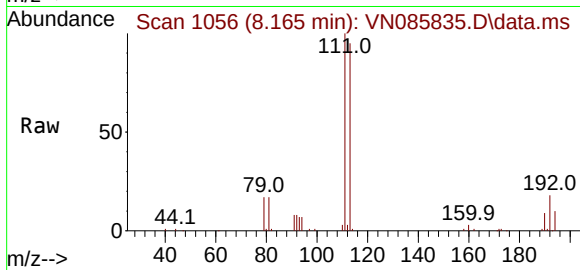
Tgt Ion:113 Resp: 148168

Ion Ratio Lower Upper

113 100

111 103.5 82.2 123.4

192 19.0 14.7 22.1



#44

Trichloroethene

Concen: 3.314 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085835.D

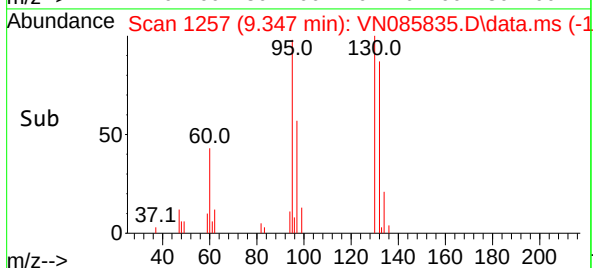
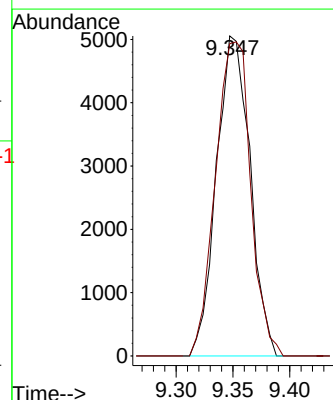
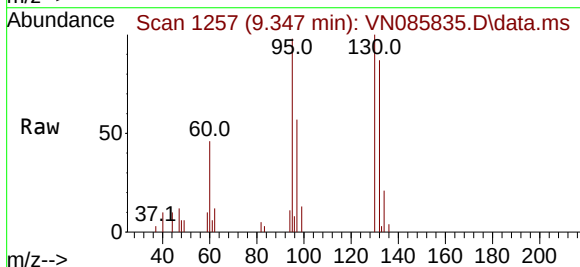
Acq: 24 Feb 2025 14:24

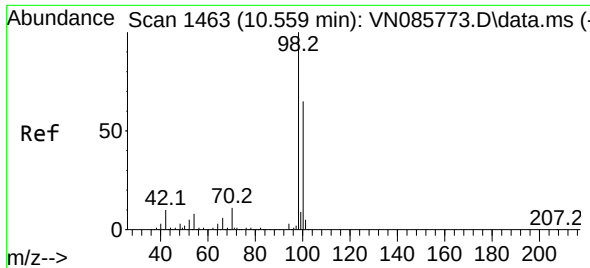
Tgt Ion:130 Resp: 10367

Ion Ratio Lower Upper

130 100

95 97.6 0.0 202.6

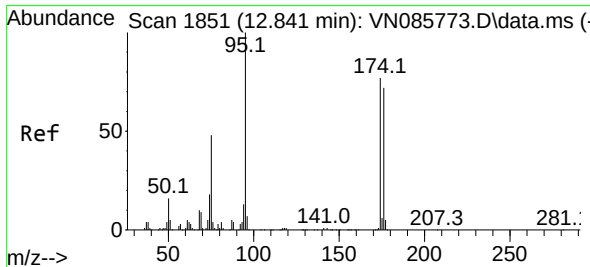
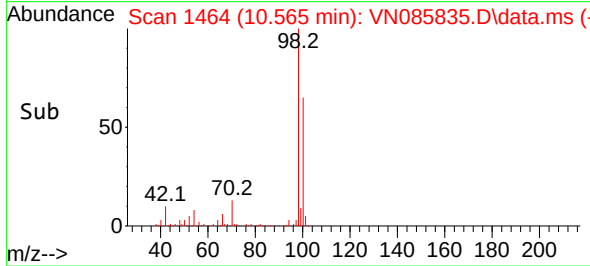
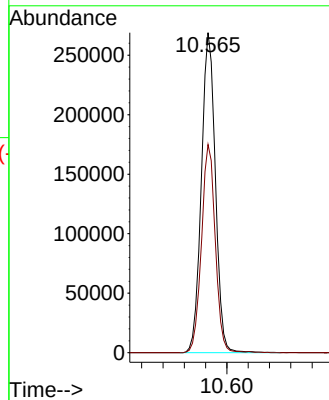
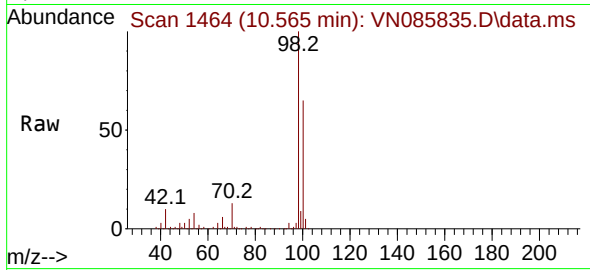




#50
Toluene-d8
Concen: 47.984 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085835.D
Acq: 24 Feb 2025 14:24

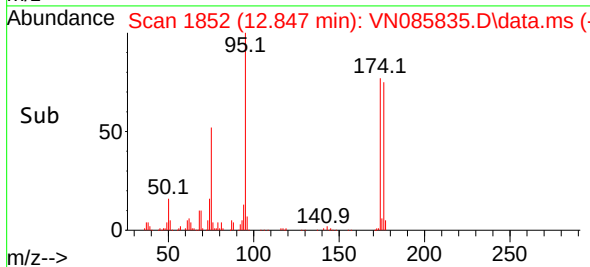
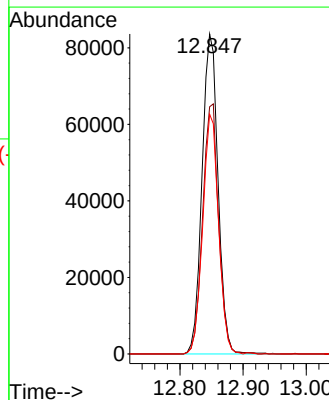
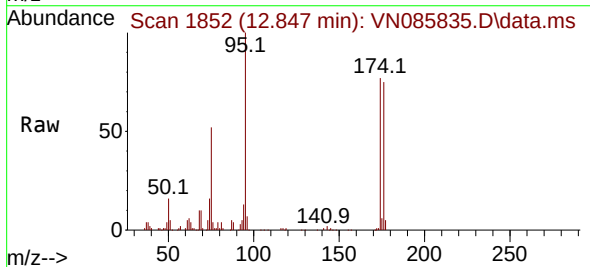
Instrument :
MSVOA_N
ClientSampleId :
MW-20D-021325

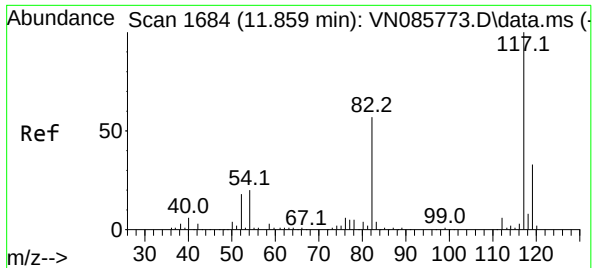
Tgt Ion: 98 Resp: 490388
Ion Ratio Lower Upper
98 100
100 64.0 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 43.637 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085835.D
Acq: 24 Feb 2025 14:24

Tgt Ion: 95 Resp: 146936
Ion Ratio Lower Upper
95 100
174 78.3 0.0 152.4
176 74.1 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085835.D

Acq: 24 Feb 2025 14:24

Instrument :

MSVOA_N

ClientSampleId :

MW-20D-021325

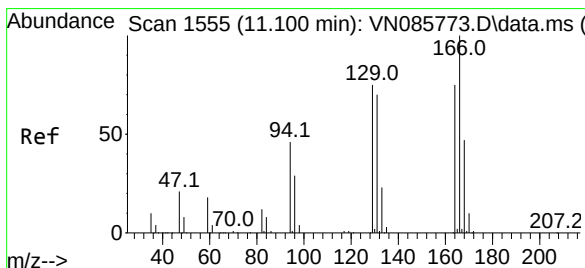
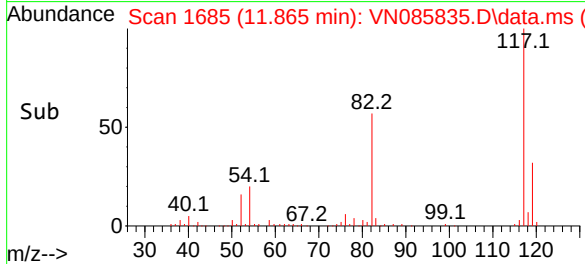
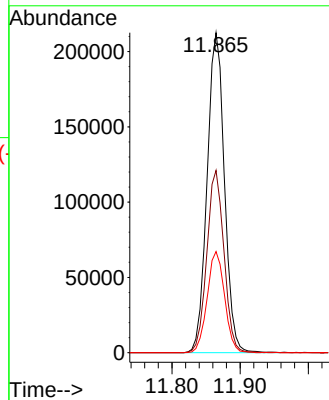
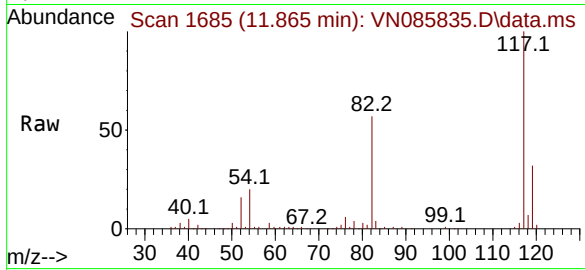
Tgt Ion:117 Resp: 376021

Ion Ratio Lower Upper

117 100

82 56.9 45.7 68.5

119 31.6 26.2 39.2



#64

Tetrachloroethene

Concen: 0.965 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085835.D

Acq: 24 Feb 2025 14:24

Tgt Ion:164 Resp: 2812

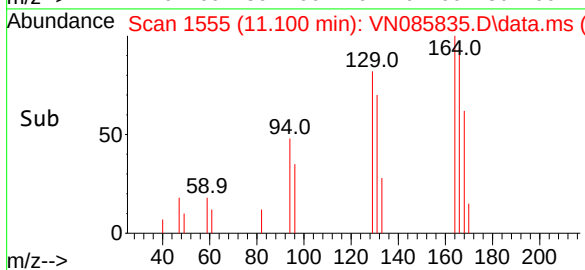
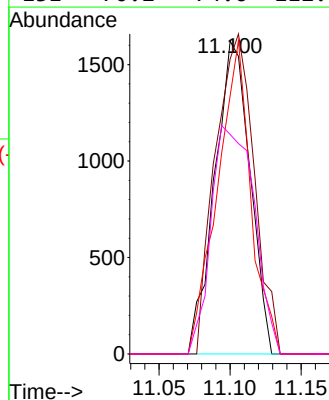
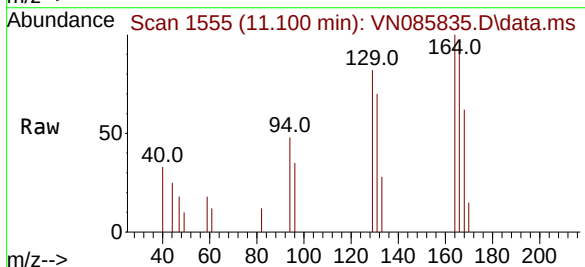
Ion Ratio Lower Upper

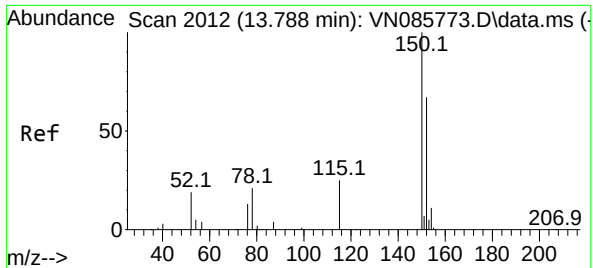
164 100

166 94.3 107.2 160.8#

129 82.5 80.7 121.1

131 70.2 74.6 112.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN085835.D

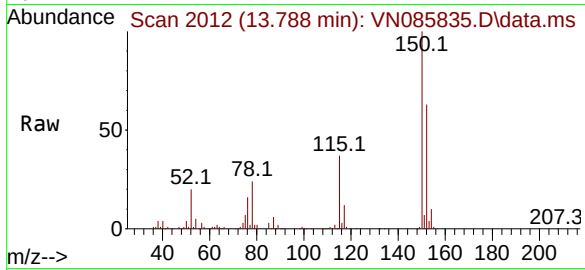
Acq: 24 Feb 2025 14:24

Instrument :

MSVOA_N

ClientSampleId :

MW-20D-021325



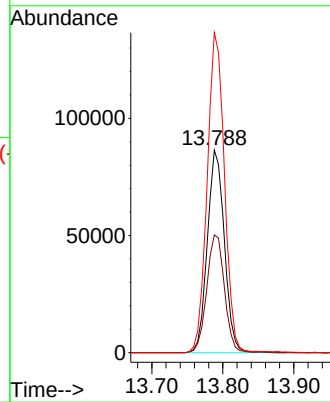
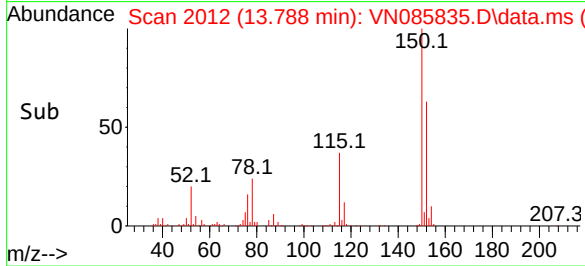
Tgt Ion:152 Resp: 144563

Ion Ratio Lower Upper

152 100

115 60.2 30.4 91.3

150 159.9 0.0 345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085835.D
Acq On : 24 Feb 2025 14:24
Operator : JC\MD
Sample : Q1405-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-20D-021325

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260

Signal : TIC: VN085835.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.483	932	940	949	rVB3	7106	17385	1.38%	0.258%
2	8.165	1043	1056	1060	rBV	205431	470397	37.37%	6.984%
3	8.224	1060	1066	1078	rVB	316109	709864	56.39%	10.539%
4	8.577	1117	1126	1135	rBV2	207105	461046	36.62%	6.845%
5	8.782	1153	1161	1178	rVB4	17149	73477	5.84%	1.091%
6	9.100	1207	1215	1232	rVB	487628	996595	79.17%	14.796%
7	9.353	1251	1258	1265	rVB	25984	52907	4.20%	0.785%
8	10.565	1456	1464	1476	rBV	691112	1258871	100.00%	18.690%
9	11.100	1550	1555	1561	rBV3	9983	18703	1.49%	0.278%
10	11.865	1675	1685	1697	rBV	628348	1114531	88.53%	16.547%
11	12.847	1844	1852	1862	rBV	405286	701477	55.72%	10.414%
12	13.788	2005	2012	2022	rBV	509421	860357	68.34%	12.773%

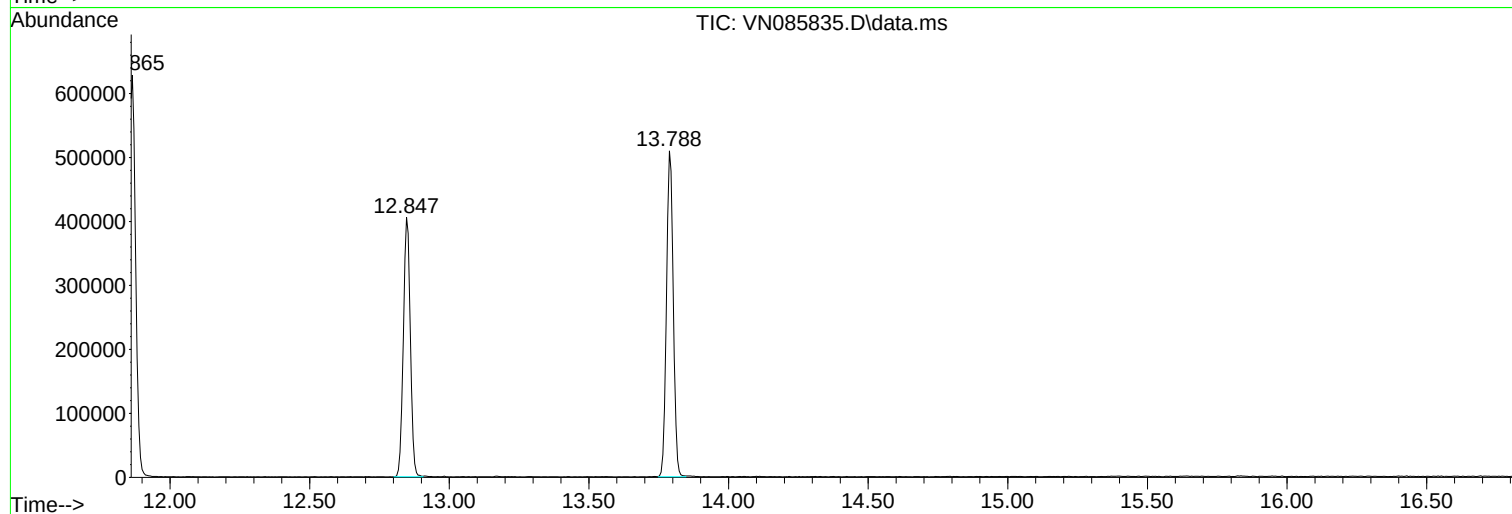
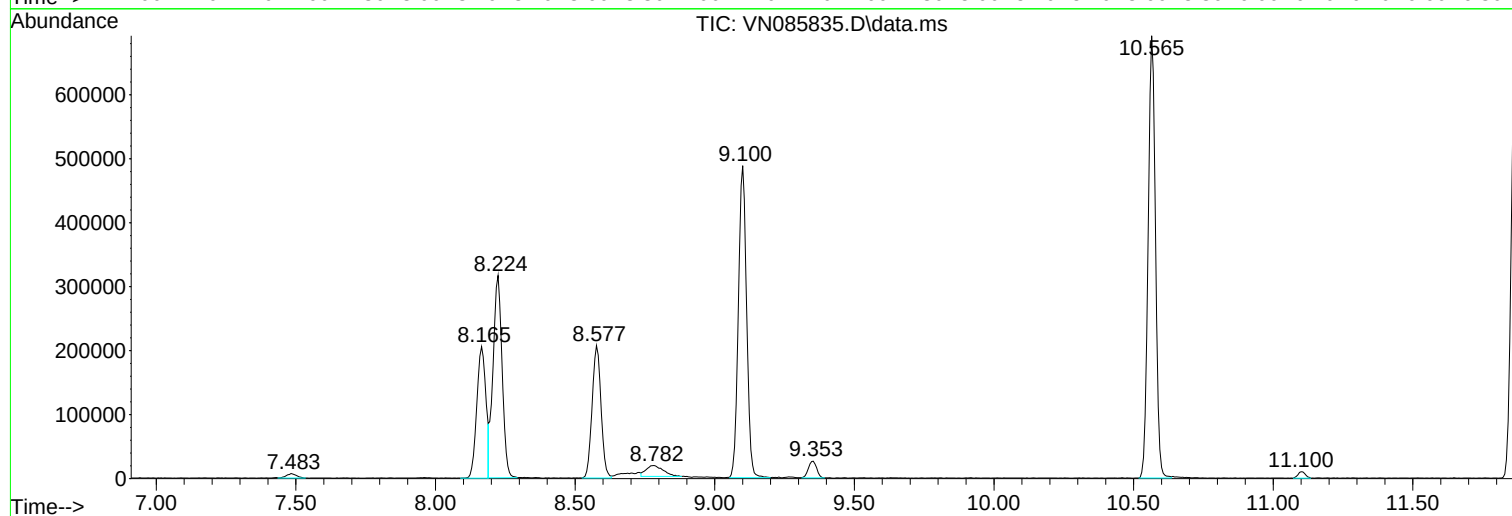
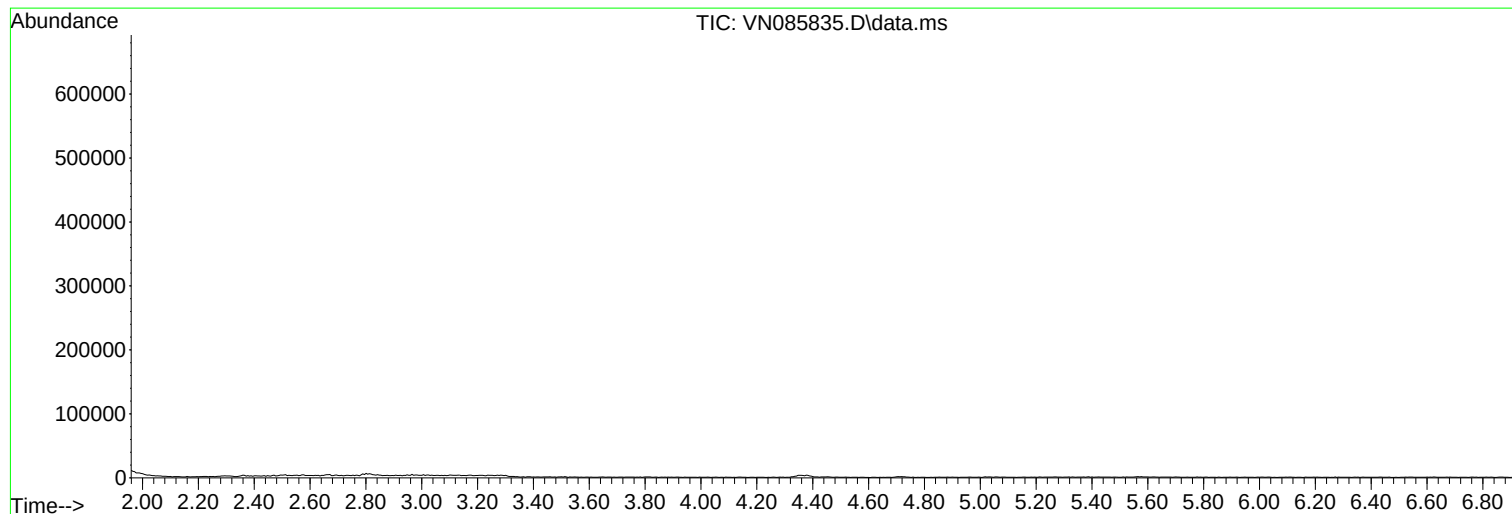
Sum of corrected areas: 6735610

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085835.D
Acq On : 24 Feb 2025 14:24
Operator : JC\MD
Sample : Q1405-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-20D-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085835.D
Acq On : 24 Feb 2025 14:24
Operator : JC\MD
Sample : Q1405-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-20D-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085835.D
Acq On : 24 Feb 2025 14:24
Operator : JC\MD
Sample : Q1405-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-20D-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	02/13/25
Project:	REAC Commodore	Date Received:	02/21/25
Client Sample ID:	MW-20D-FD-021325	SDG No.:	Q1405
Lab Sample ID:	Q1405-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085836.D	1		02/24/25 14:49	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.60		0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	UQ	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	3.20		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	UQ	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/13/25	
Project:	REAC Commodore			Date Received:	02/21/25	
Client Sample ID:	MW-20D-FD-021325			SDG No.:	Q1405	
Lab Sample ID:	Q1405-04			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085836.D	1		02/24/25 14:49	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	UQ	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.91	J	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	UQ	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.6		74 - 125	119%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		75 - 124	106%	SPK: 50
2037-26-5	Toluene-d8	48.2		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.7		77 - 121	85%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	226000	8.224			
540-36-3	1,4-Difluorobenzene	441000	9.1			
3114-55-4	Chlorobenzene-d5	380000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	144000	13.794			

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/13/25
Project:	REAC Commodore			Date Received:	02/21/25
Client Sample ID:	MW-20D-FD-021325			SDG No.:	Q1405
Lab Sample ID:	Q1405-04			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085836.D	1		02/24/25 14:49	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022425\
 Data File : VN085836.D
 Acq On : 24 Feb 2025 14:49
 Operator : JC\MD
 Sample : Q1405-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-20D-FD-021325

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:55:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	225697	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	441369	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	379940	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	144264	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	174318	59.574	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 119.140%			
35) Dibromofluoromethane	8.165	113	152713	52.877	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.760%			
50) Toluene-d8	10.565	98	506797	48.230	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.460%			
62) 4-Bromofluorobenzene	12.847	95	147677	42.655	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 85.320%			
Target Compounds						
9) 1,1,2-Trichlorotrifluo...	4.383	101	2799m	1.025	ug/l	Qvalue
27) cis-1,2-Dichloroethene	7.494	96	4885	1.581	ug/l	87
44) Trichloroethene	9.347	130	10442	3.246	ug/l	91
64) Tetrachloroethene	11.100	164	2690	0.914	ug/l	91

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

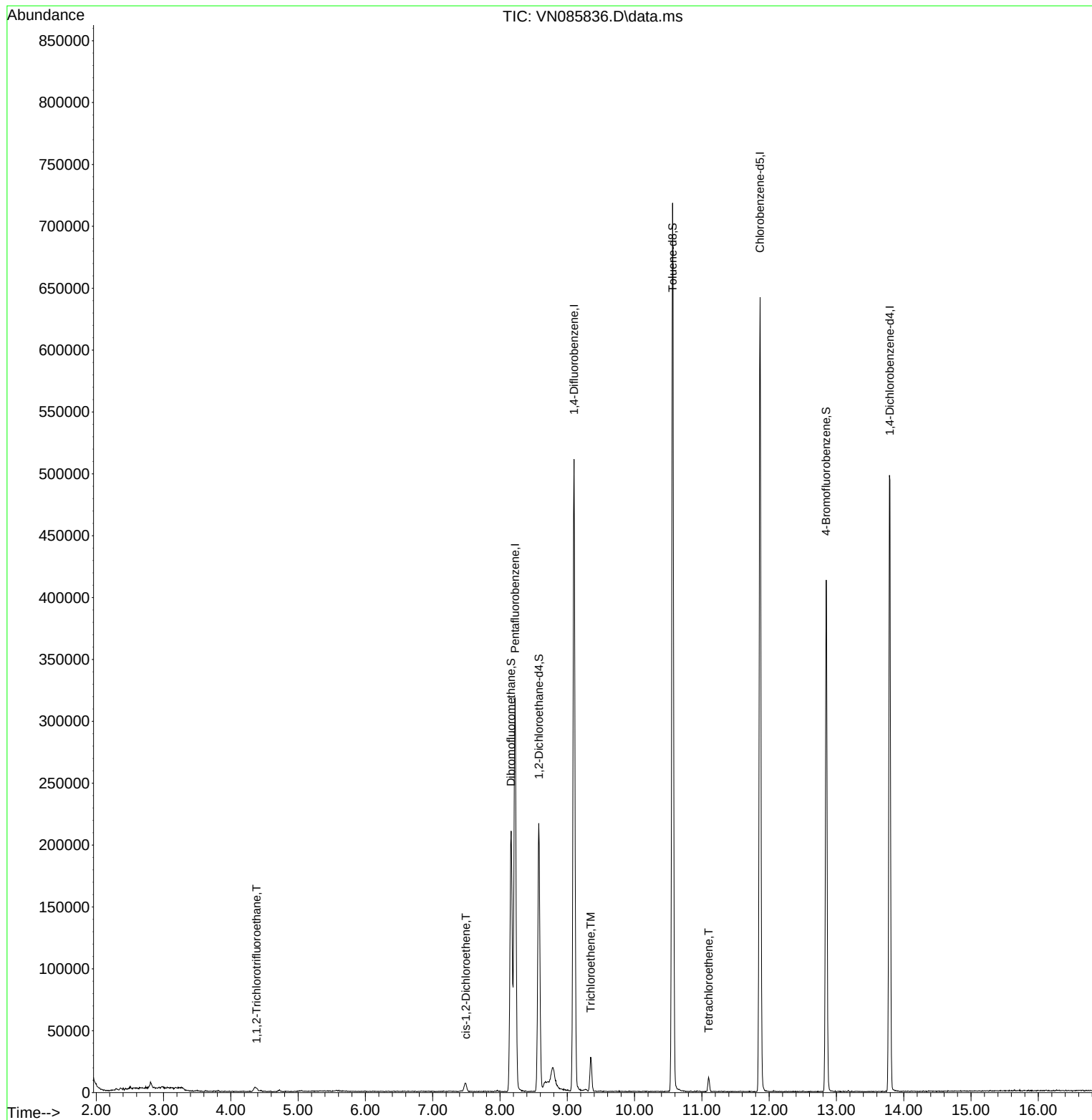
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085836.D
Acq On : 24 Feb 2025 14:49
Operator : JC\MD
Sample : Q1405-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

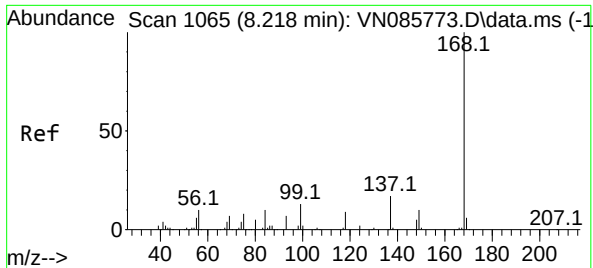
Instrument :
MSVOA_N
ClientSampleId :
MW-20D-FD-021325

Manual Integrations
APPROVED

Reviewed By : John Carlone 02/25/2025
Supervised By : Mahesh Dadoda 02/25/2025

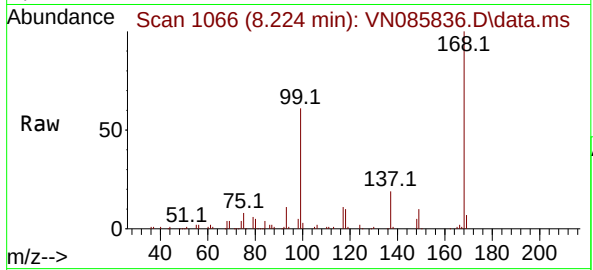
Quant Time: Feb 25 01:55:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085836.D
Acq: 24 Feb 2025 14:49

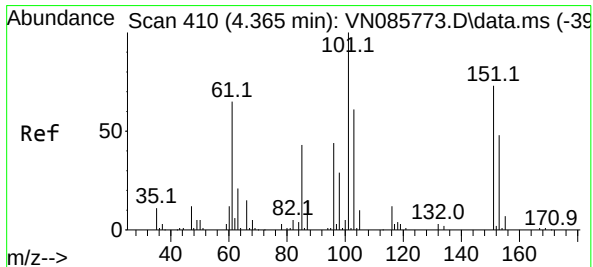
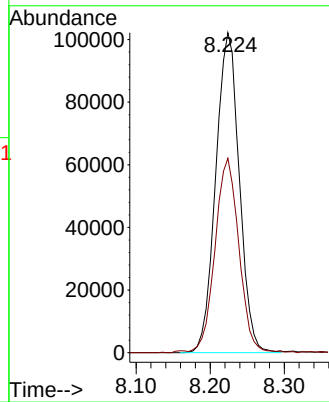
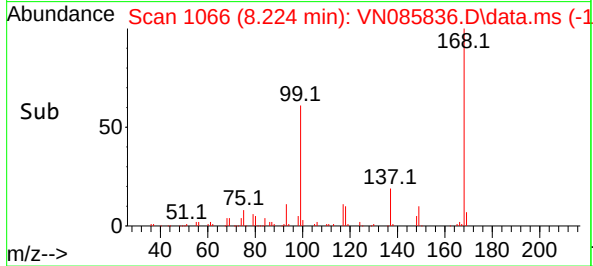
Instrument :
MSVOA_N
ClientSampleId :
MW-20D-FD-021325



Tgt Ion:168 Resp: 22569
Ion Ratio Lower Upper
168 100
99 60.2 47.9 71.9

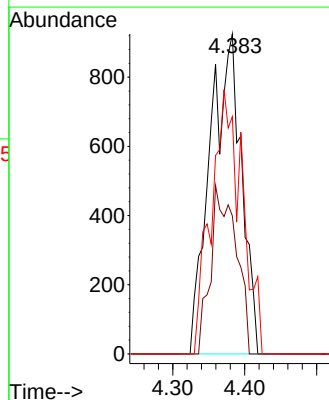
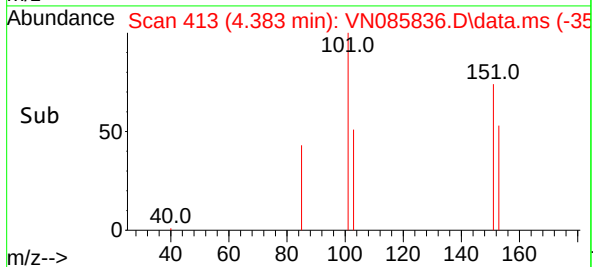
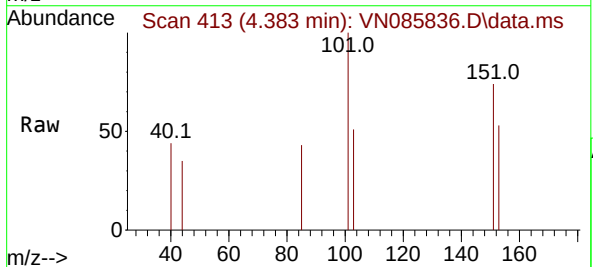
Manual Integrations
APPROVED

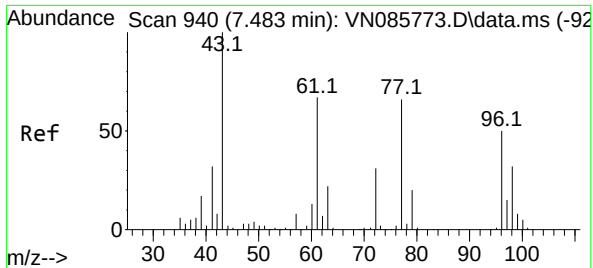
Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.025 ug/l m
RT: 4.383 min Scan# 413
Delta R.T. 0.018 min
Lab File: VN085836.D
Acq: 24 Feb 2025 14:49

Tgt Ion:101 Resp: 2799
Ion Ratio Lower Upper
101 100
85 0.0 35.7 53.5#
151 81.6 61.4 92.2





#27

cis-1,2-Dichloroethene

Concen: 1.581 ug/l

RT: 7.494 min Scan# 94

Delta R.T. 0.012 min

Lab File: VN085836.D

Acq: 24 Feb 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

MW-20D-FD-021325

Tgt Ion: 96 Resp: 488

Ion Ratio Lower Upper

96 100

61 119.3 0.0 280.6

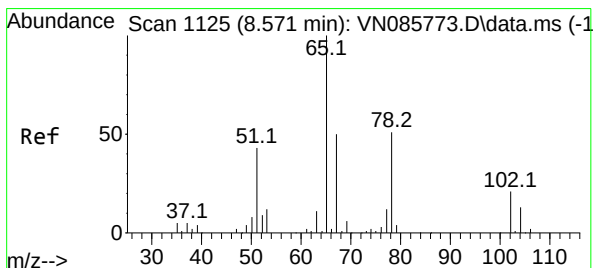
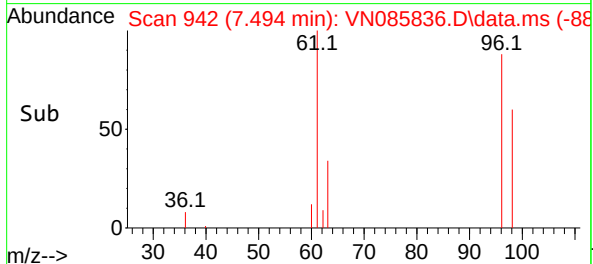
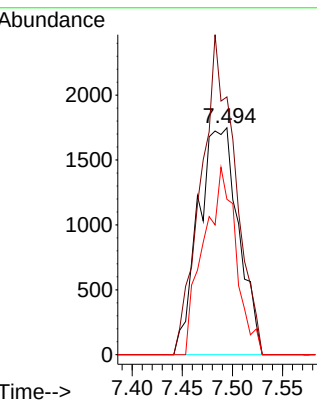
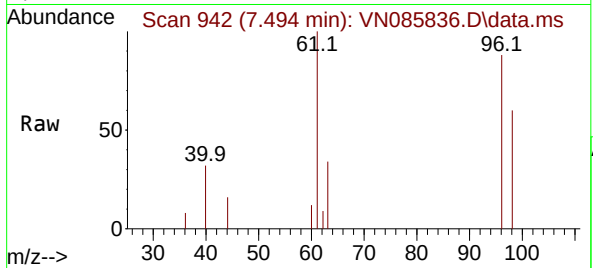
98 66.2 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/25/2025

Supervised By :Mahesh Dadoda 02/25/2025



#33

1,2-Dichloroethane-d4

Concen: 59.574 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085836.D

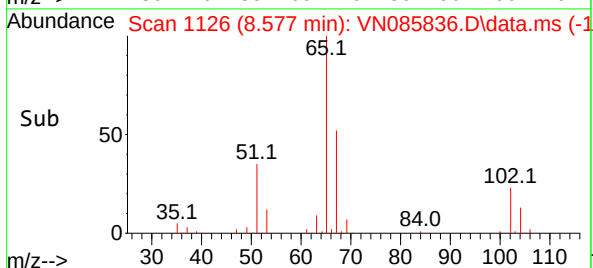
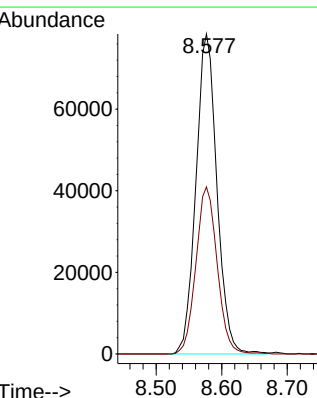
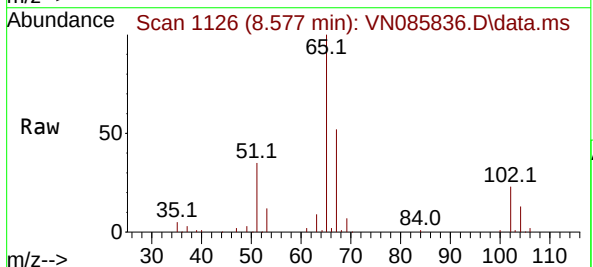
Acq: 24 Feb 2025 14:49

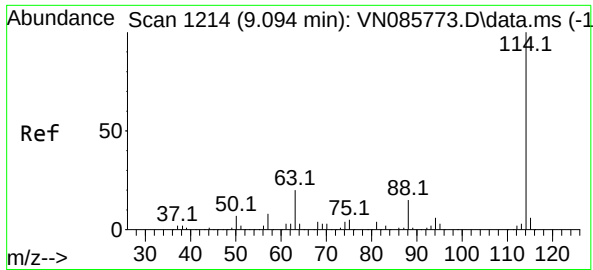
Tgt Ion: 65 Resp: 174318

Ion Ratio Lower Upper

65 100

67 52.9 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085836.D

Acq: 24 Feb 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

MW-20D-FD-021325

Tgt Ion:114 Resp: 441369

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.2

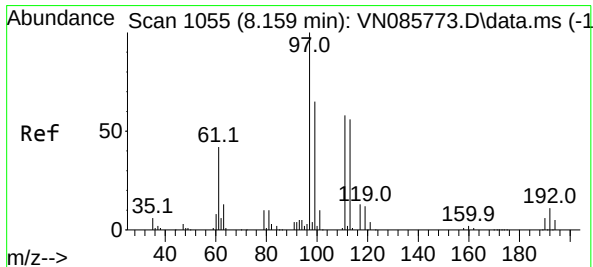
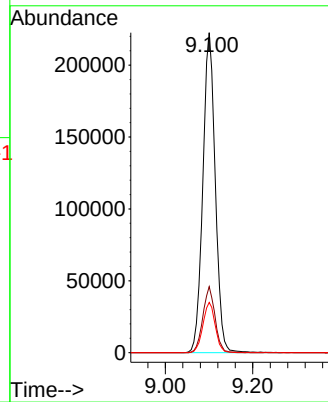
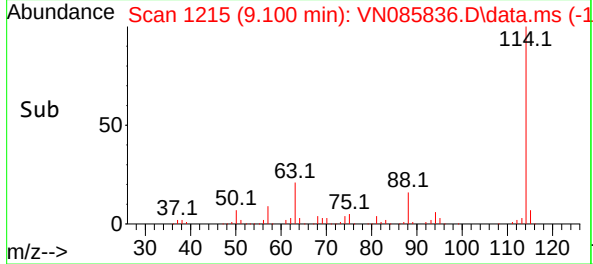
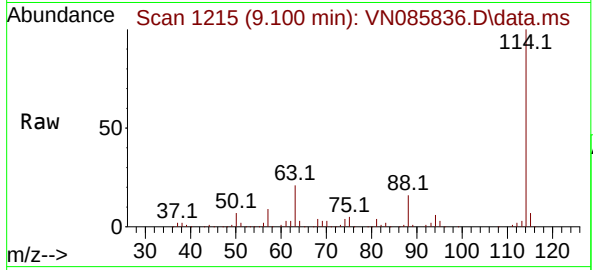
88 15.7 0.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/25/2025

Supervised By :Mahesh Dadoda 02/25/2025



#35

Dibromofluoromethane

Concen: 52.877 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085836.D

Acq: 24 Feb 2025 14:49

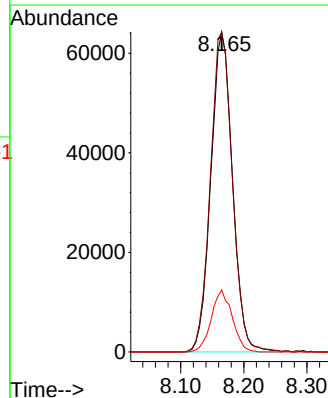
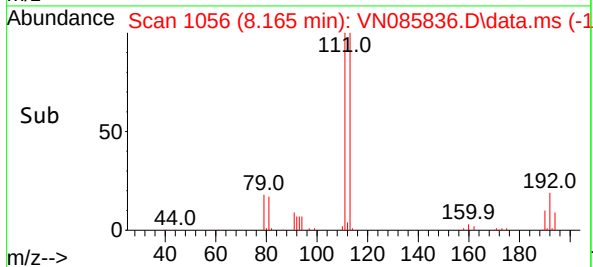
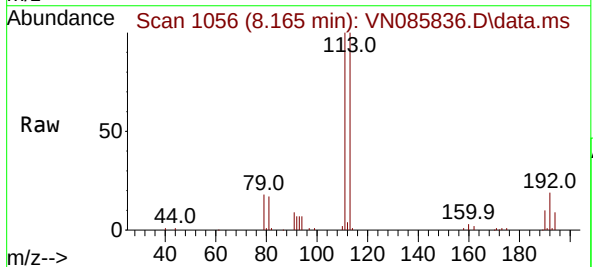
Tgt Ion:113 Resp: 152713

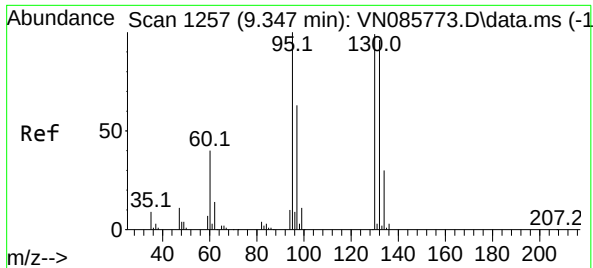
Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.4

192 18.7 14.7 22.1





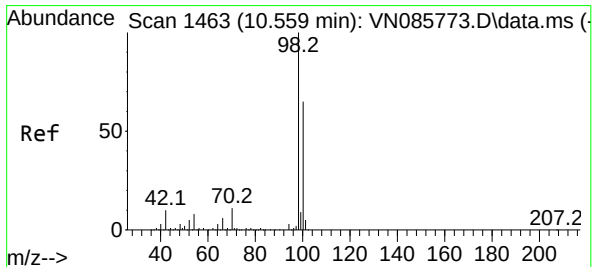
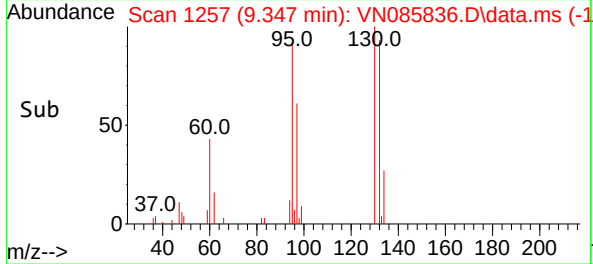
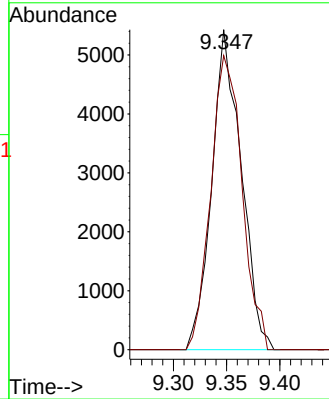
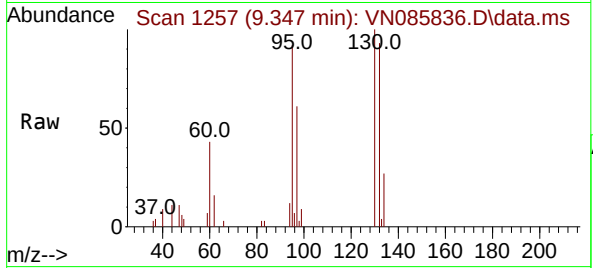
#44
Trichloroethene
Concen: 3.246 ug/l
RT: 9.347 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085836.D
Acq: 24 Feb 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
MW-20D-FD-021325

Tgt Ion:130 Resp: 1044
Ion Ratio Lower Upper
130 100
95 91.9 0.0 202.6

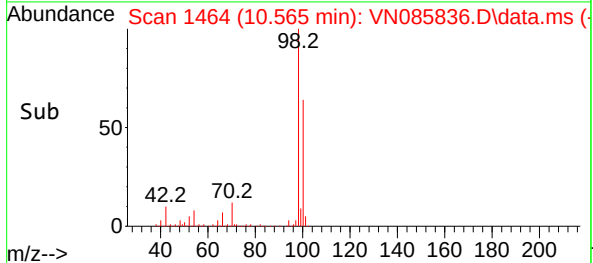
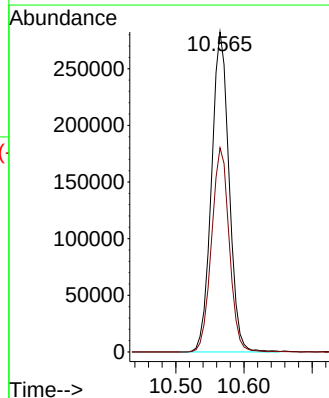
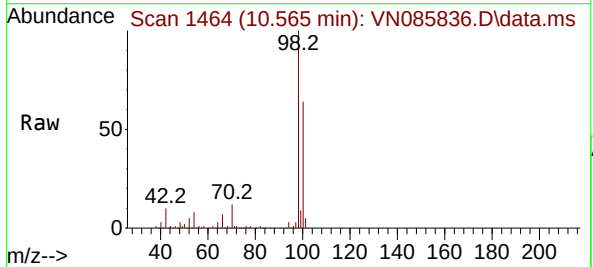
Manual Integrations
APPROVED

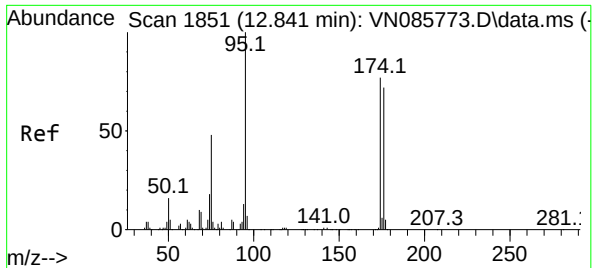
Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025



#50
Toluene-d8
Concen: 48.230 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085836.D
Acq: 24 Feb 2025 14:49

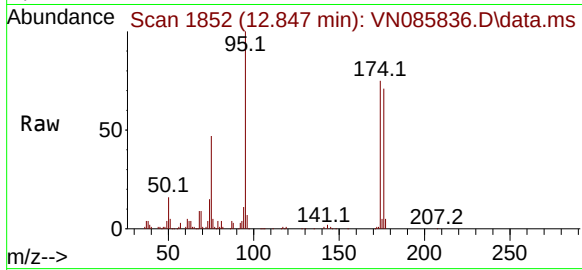
Tgt Ion: 98 Resp: 506797
Ion Ratio Lower Upper
98 100
100 64.3 52.1 78.1





#62
4-Bromofluorobenzene
Concen: 42.655 ug/l
RT: 12.847 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VN085836.D
Acq: 24 Feb 2025 14:49

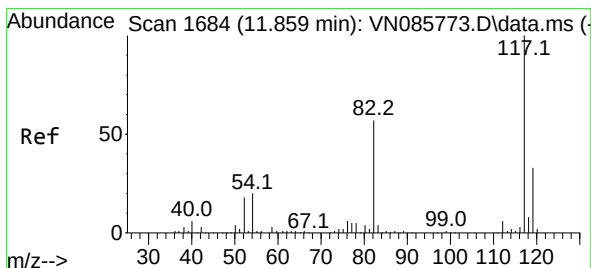
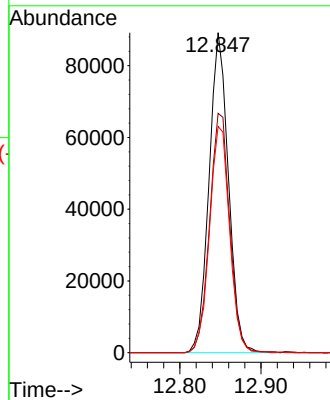
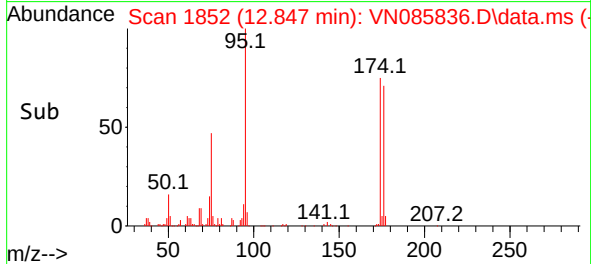
Instrument :
MSVOA_N
ClientSampleId :
MW-20D-FD-021325



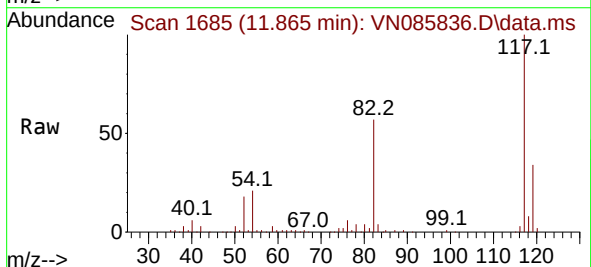
Tgt Ion: 95 Resp: 14767
Ion Ratio Lower Upper
95 100
174 78.1 0.0 152.4
176 73.3 0.0 146.6

Manual Integrations
APPROVED

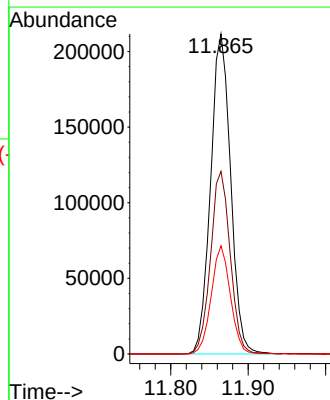
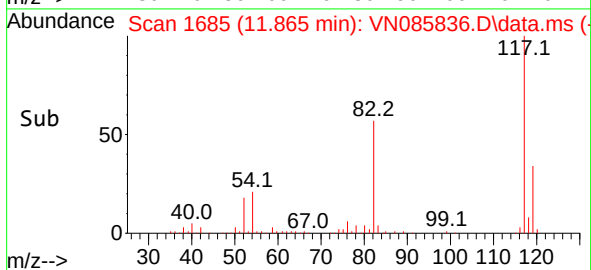
Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

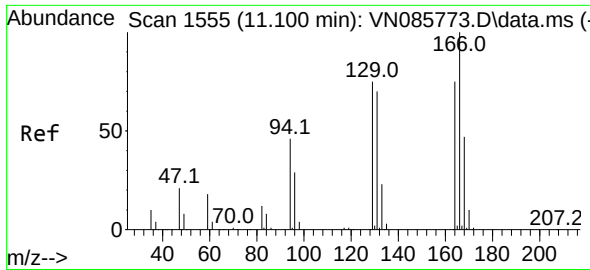


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085836.D
Acq: 24 Feb 2025 14:49



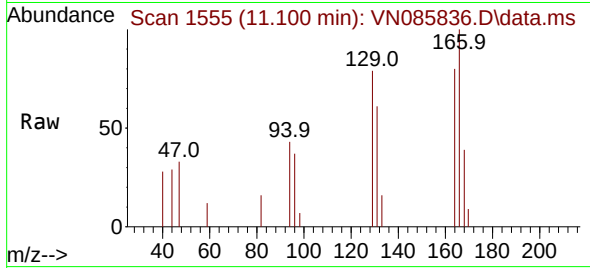
Tgt Ion:117 Resp: 379940
Ion Ratio Lower Upper
117 100
82 57.1 45.7 68.5
119 33.8 26.2 39.2





#64
Tetrachloroethene
Concen: 0.914 ug/l
RT: 11.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085836.D
Acq: 24 Feb 2025 14:49

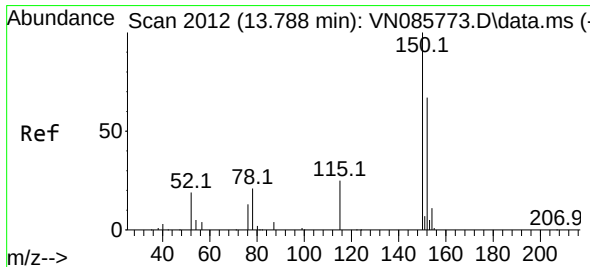
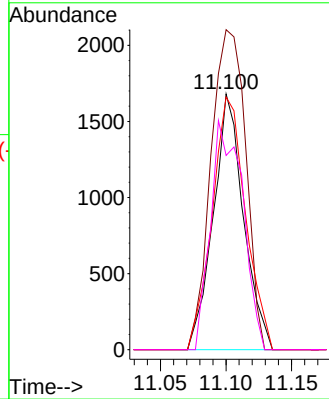
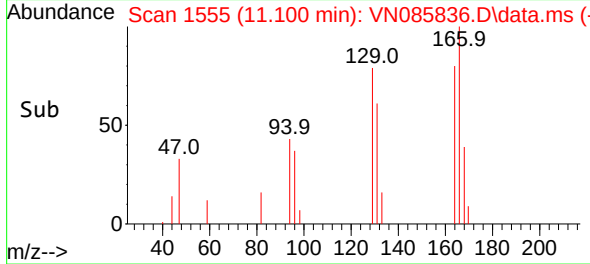
Instrument :
MSVOA_N
ClientSampleId :
MW-20D-FD-021325



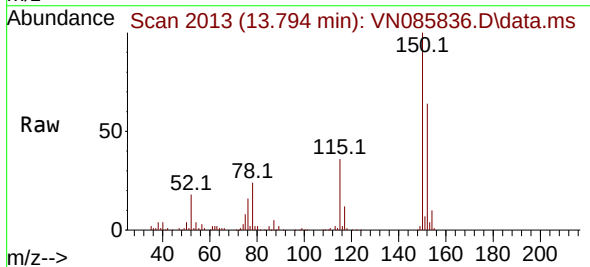
Tgt Ion:164 Resp: 2690
Ion Ratio Lower Upper
164 100
166 125.2 107.2 160.8
129 98.8 80.7 121.1
131 76.0 74.6 112.0

Manual Integrations
APPROVED

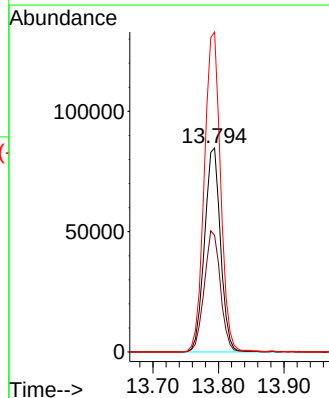
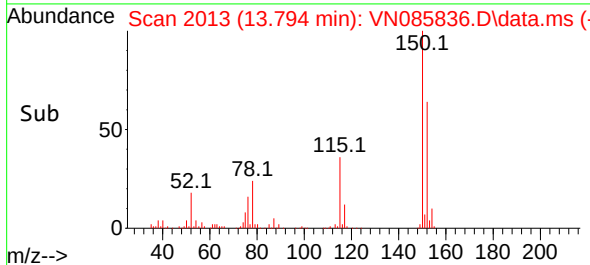
Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN085836.D
Acq: 24 Feb 2025 14:49



Tgt Ion:152 Resp: 144264
Ion Ratio Lower Upper
152 100
115 59.9 30.4 91.3
150 159.4 0.0 345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085836.D
Acq On : 24 Feb 2025 14:49
Operator : JC\MD
Sample : Q1405-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-20D-FD-021325

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Title : SW846 8260

Signal : TIC: VN085836.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.483	933	940	949	rVB3	6793	18113	1.39%	0.264%
2	8.165	1044	1056	1061	rBV2	210678	513129	39.51%	7.483%
3	8.224	1061	1066	1082	rVB	318024	689968	53.13%	10.062%
4	8.577	1116	1126	1135	rBV	216707	478151	36.82%	6.973%
5	8.783	1152	1161	1178	rVB4	17226	75964	5.85%	1.108%
6	9.100	1206	1215	1229	rBV	510390	1017995	78.39%	14.845%
7	9.347	1250	1257	1265	rVB	27750	53914	4.15%	0.786%
8	10.565	1456	1464	1476	rBV	717830	1298592	100.00%	18.937%
9	11.100	1548	1555	1561	rBV2	11650	20321	1.56%	0.296%
10	11.865	1677	1685	1697	rBV	641823	1131714	87.15%	16.504%
11	12.847	1844	1852	1863	rBV	413490	700221	53.92%	10.211%
12	13.788	2004	2012	2022	rBV	498048	859240	66.17%	12.530%

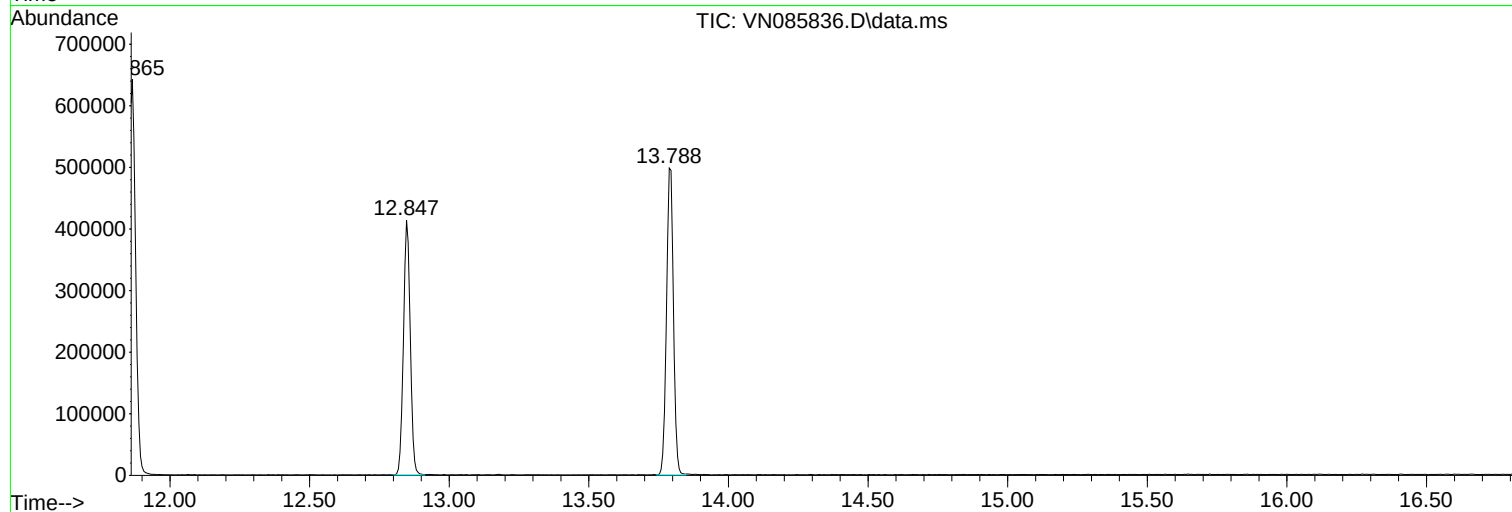
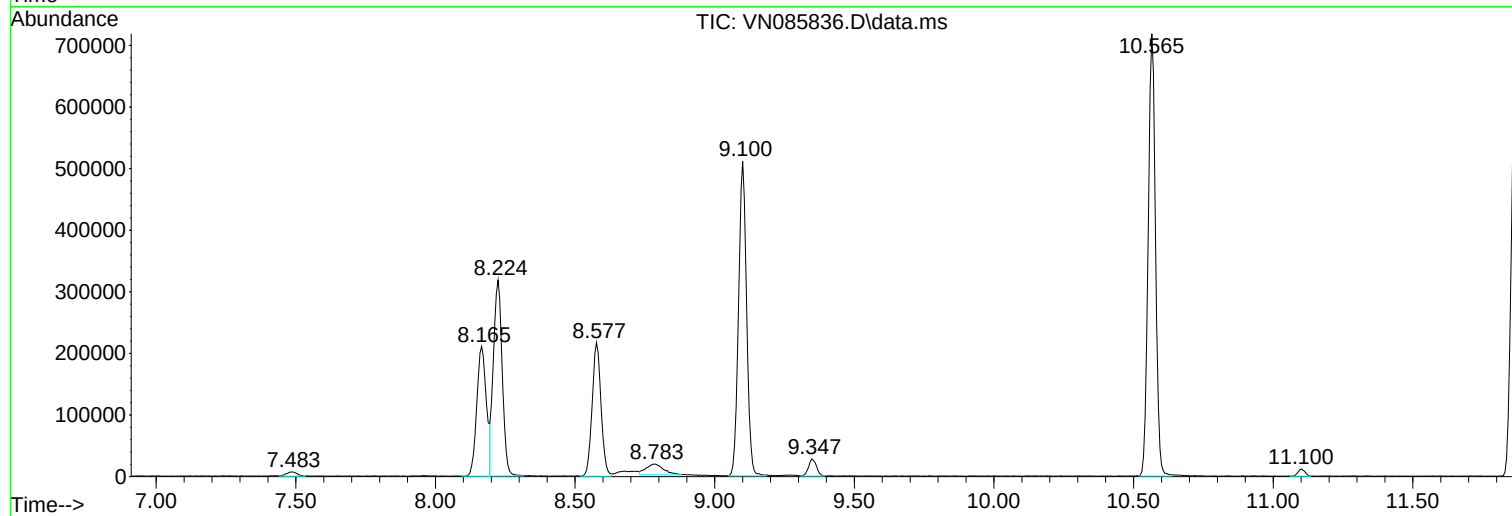
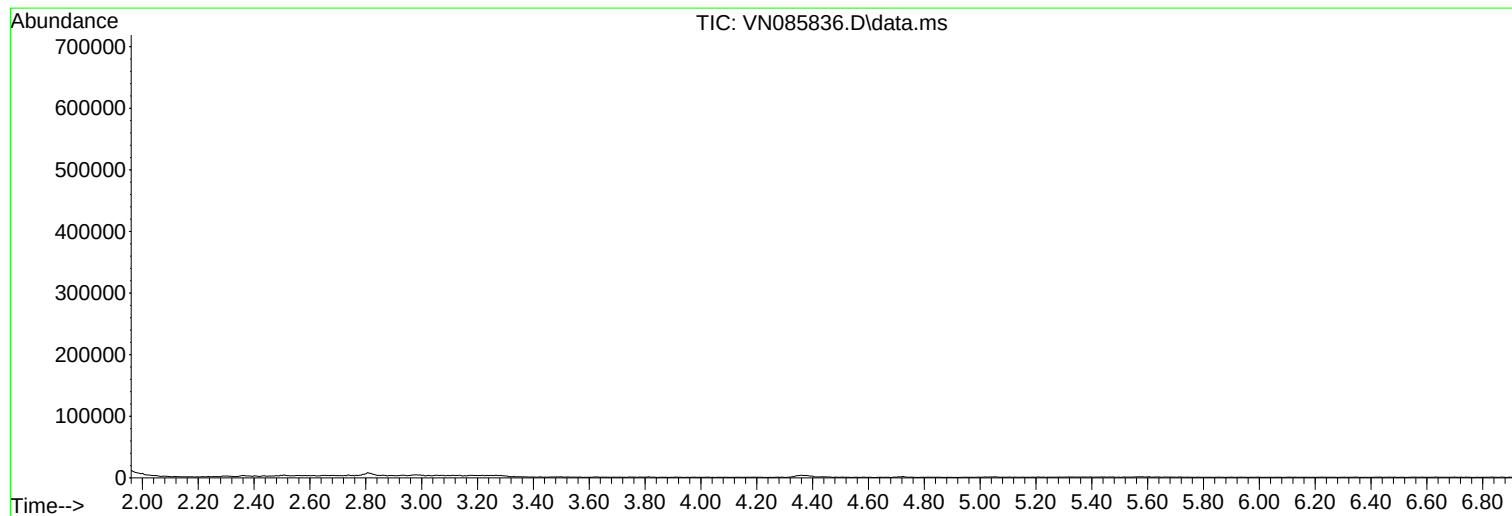
Sum of corrected areas: 6857322

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085836.D
Acq On : 24 Feb 2025 14:49
Operator : JC\MD
Sample : Q1405-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-20D-FD-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085836.D
Acq On : 24 Feb 2025 14:49
Operator : JC\MD
Sample : Q1405-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-20D-FD-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085836.D
Acq On : 24 Feb 2025 14:49
Operator : JC\MD
Sample : Q1405-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-20D-FD-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	02/19/25
Project:	REAC Commodore	Date Received:	02/21/25
Client Sample ID:	MW-22-021925	SDG No.:	Q1405
Lab Sample ID:	Q1405-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085837.D	1		02/24/25 15:13	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	2.00		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	UQ	0.18	1.00	ug/L
67-66-3	Chloroform	1.30		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	UQ	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/19/25	
Project:	REAC Commodore			Date Received:	02/21/25	
Client Sample ID:	MW-22-021925			SDG No.:	Q1405	
Lab Sample ID:	Q1405-05			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085837.D	1		02/24/25 15:13	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	UQ	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	UQ	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.8		74 - 125	120%	SPK: 50
1868-53-7	Dibromofluoromethane	54.4		75 - 124	109%	SPK: 50
2037-26-5	Toluene-d8	49.1		86 - 113	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.0		77 - 121	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	211000	8.224			
540-36-3	1,4-Difluorobenzene	405000	9.1			
3114-55-4	Chlorobenzene-d5	348000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.794			

Report of Analysis

Client:	TechLaw Consultants, Inc		Date Collected:	02/19/25	
Project:	REAC Commodore		Date Received:	02/21/25	
Client Sample ID:	MW-22-021925		SDG No.:	Q1405	
Lab Sample ID:	Q1405-05		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085837.D	1		02/24/25 15:13	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022425\
 Data File : VN085837.D
 Acq On : 24 Feb 2025 15:13
 Operator : JC\MD
 Sample : Q1405-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-22-021925

Quant Time: Feb 25 01:55:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

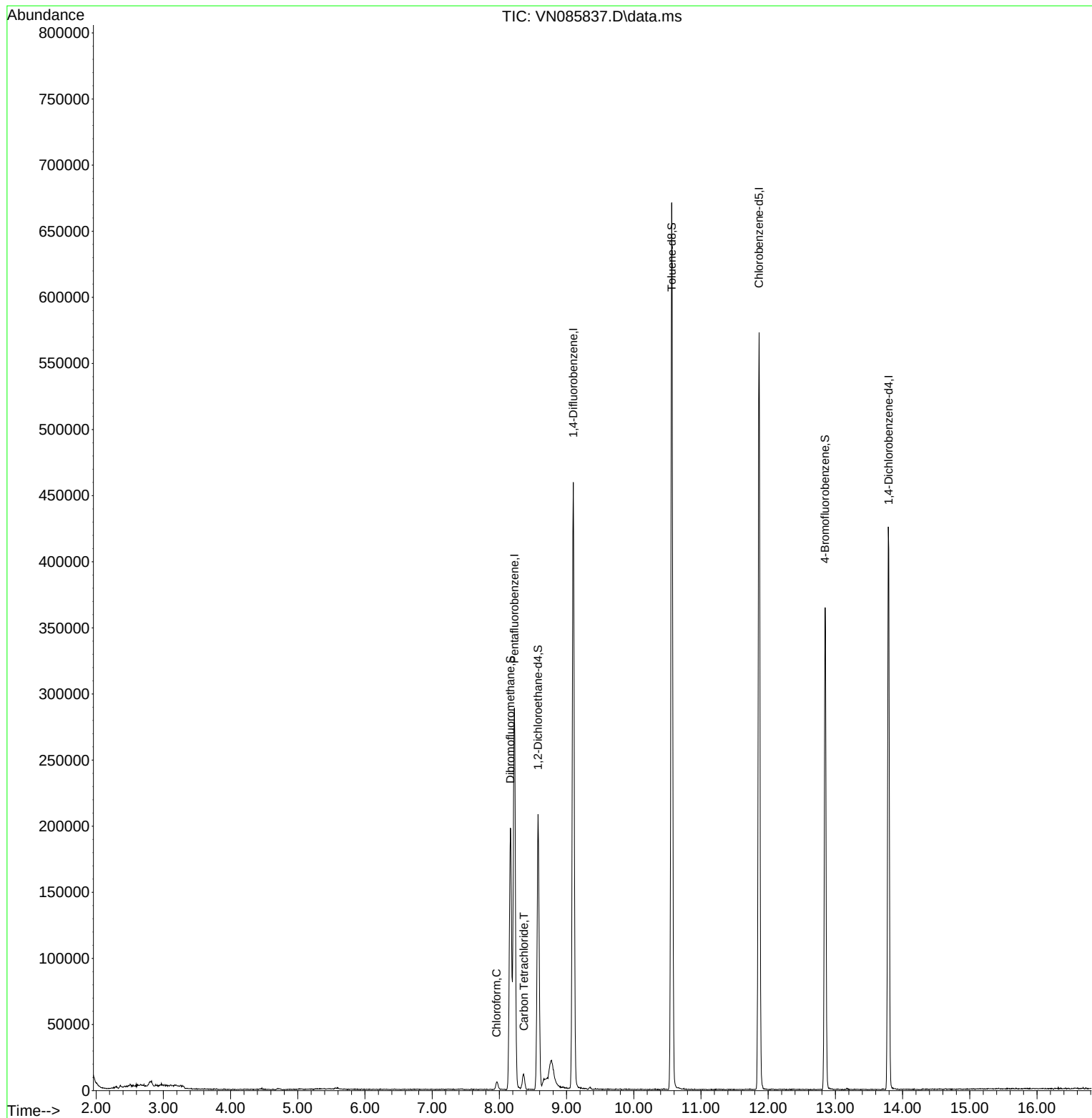
Internal Standards						
1) Pentafluorobenzene	8.224	168	211067	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	405232	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	347826	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	123885	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	163651	59.805	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 119.600%			
35) Dibromofluoromethane	8.165	113	144371	54.446	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.900%			
50) Toluene-d8	10.565	98	474083	49.141	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.280%			
62) 4-Bromofluorobenzene	12.847	95	130184	40.956	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 81.920%			
Target Compounds						
30) Chloroform	7.959	83	6317	1.295	ug/l	89
38) Carbon Tetrachloride	8.365	117	9131	2.048	ug/l	96

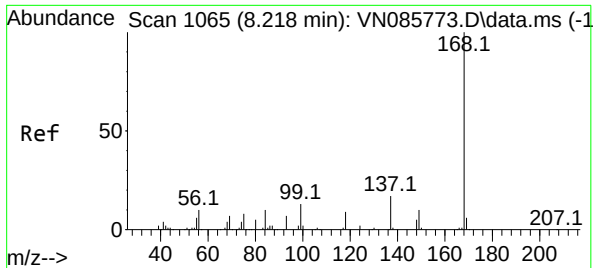
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085837.D
Acq On : 24 Feb 2025 15:13
Operator : JC\MD
Sample : Q1405-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-22-021925

Quant Time: Feb 25 01:55:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

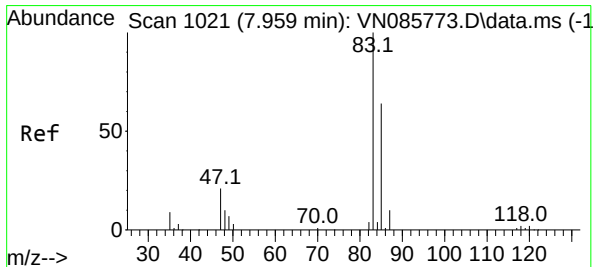
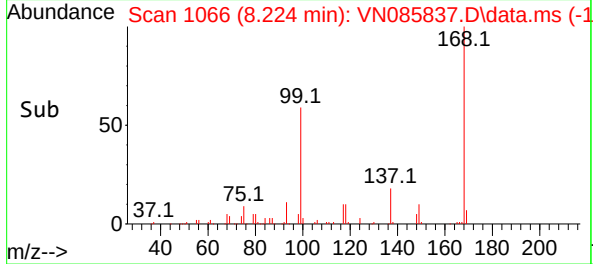
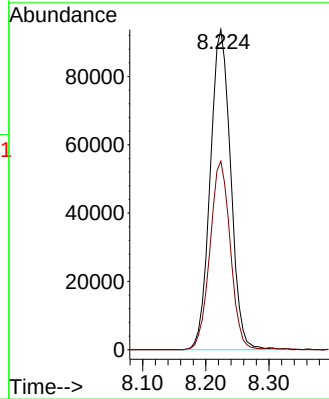
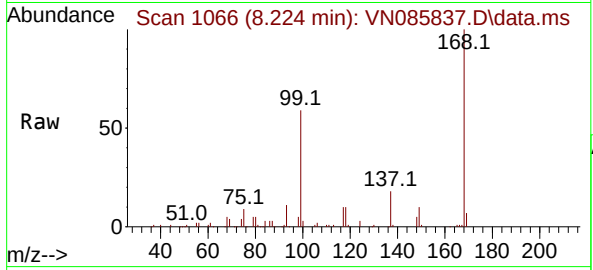




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085837.D
Acq: 24 Feb 2025 15:13

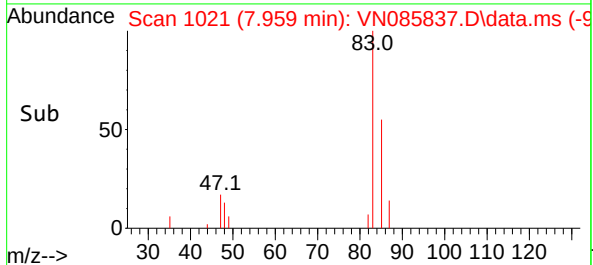
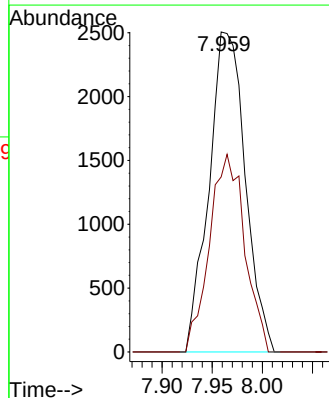
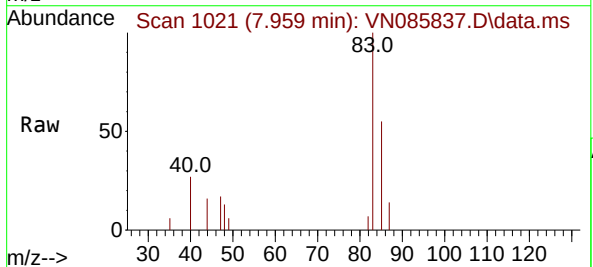
Instrument :
MSVOA_N
ClientSampleId :
MW-22-021925

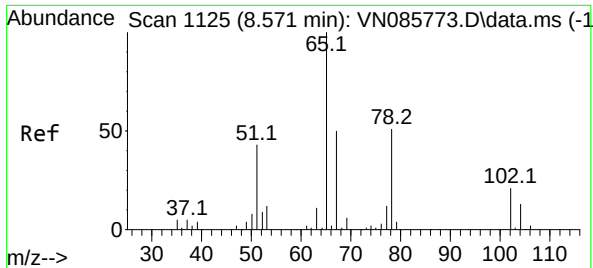
Tgt Ion:168 Resp: 211067
Ion Ratio Lower Upper
168 100
99 58.9 47.9 71.9



#30
Chloroform
Concen: 1.295 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.000 min
Lab File: VN085837.D
Acq: 24 Feb 2025 15:13

Tgt Ion: 83 Resp: 6317
Ion Ratio Lower Upper
83 100
85 54.7 50.9 76.3





#33

1,2-Dichloroethane-d4

Concen: 59.805 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085837.D

Acq: 24 Feb 2025 15:13

Instrument :

MSVOA_N

ClientSampleId :

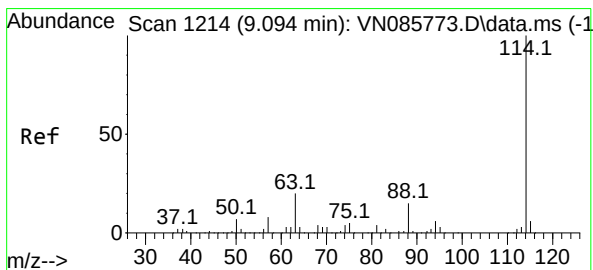
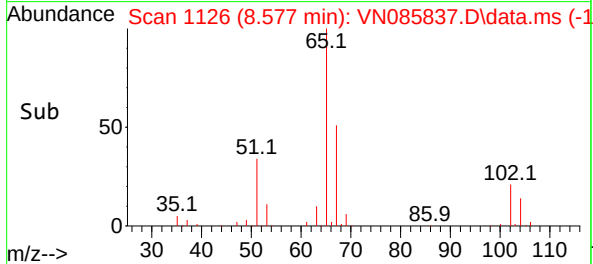
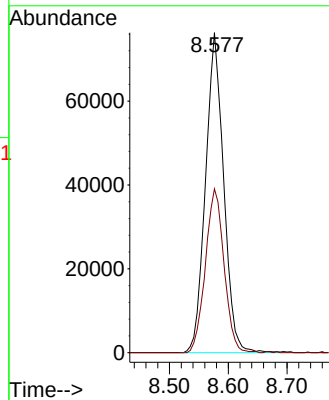
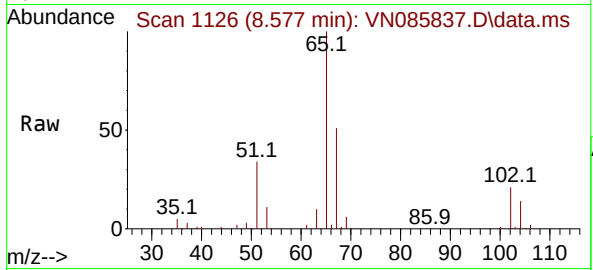
MW-22-021925

Tgt Ion: 65 Resp: 163651

Ion Ratio Lower Upper

65 100

67 52.6 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085837.D

Acq: 24 Feb 2025 15:13

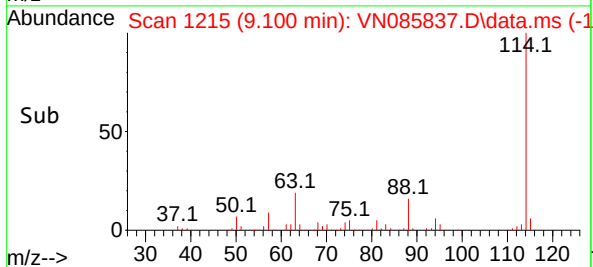
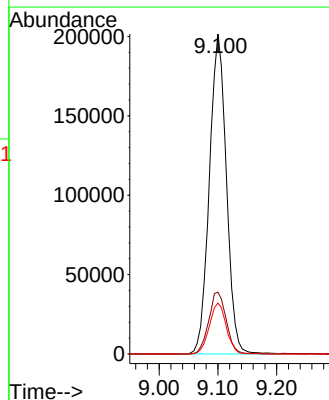
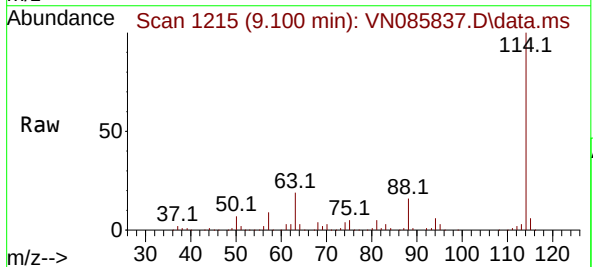
Tgt Ion: 114 Resp: 405232

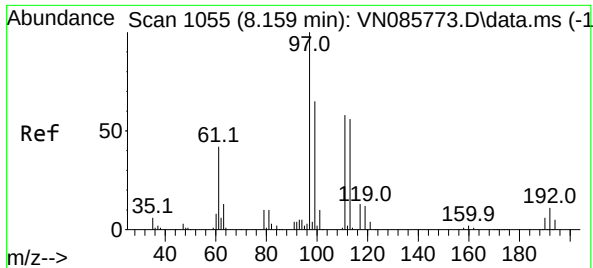
Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.2

88 15.9 0.0 30.0





#35

Dibromofluoromethane

Concen: 54.446 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085837.D

Acq: 24 Feb 2025 15:13

Instrument :

MSVOA_N

ClientSampleId :

MW-22-021925

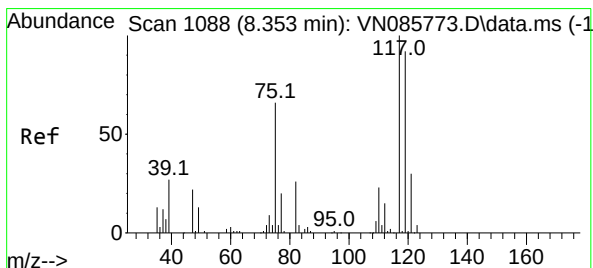
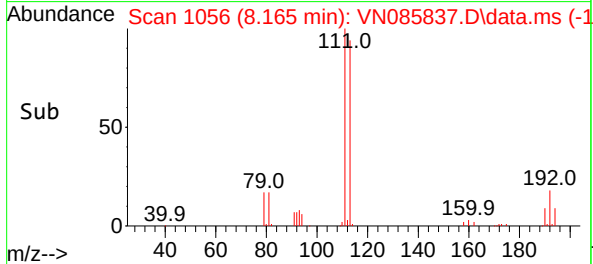
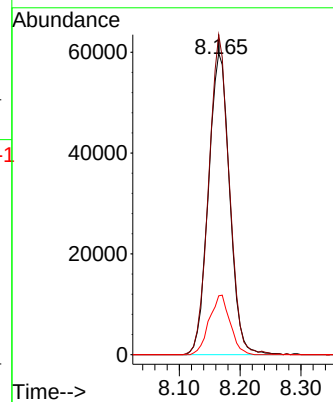
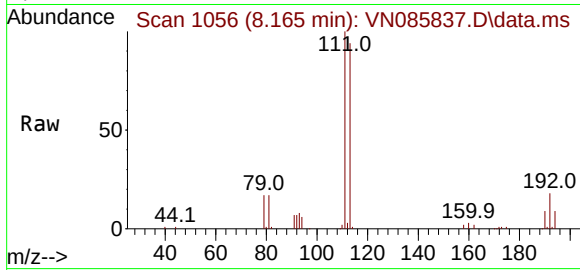
Tgt Ion:113 Resp: 144371

Ion Ratio Lower Upper

113 100

111 102.7 82.2 123.4

192 19.4 14.7 22.1



#38

Carbon Tetrachloride

Concen: 2.048 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.012 min

Lab File: VN085837.D

Acq: 24 Feb 2025 15:13

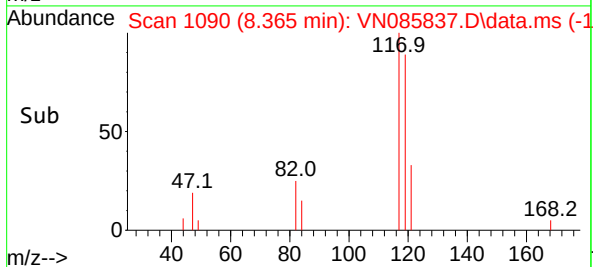
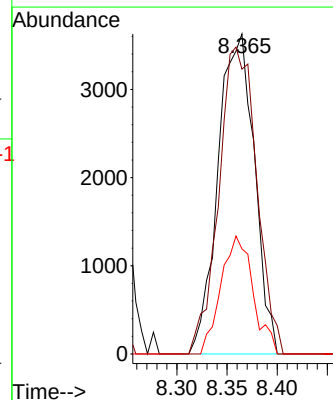
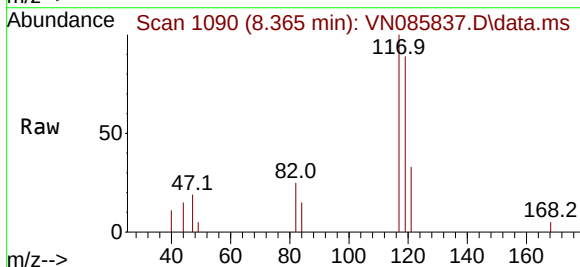
Tgt Ion:117 Resp: 9131

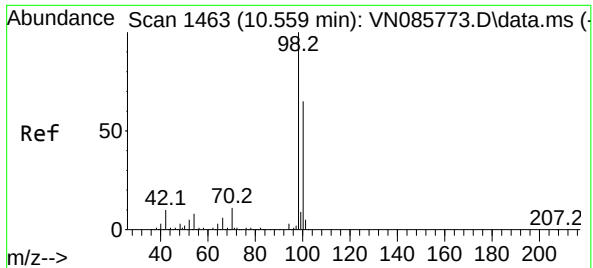
Ion Ratio Lower Upper

117 100

119 89.0 73.8 110.6

121 32.9 24.3 36.5

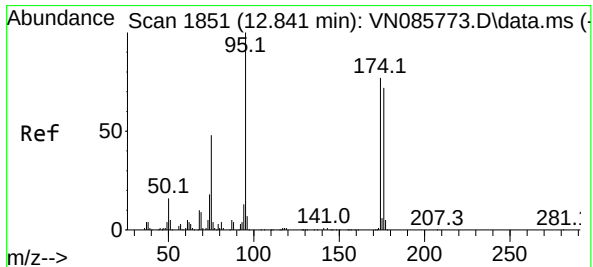
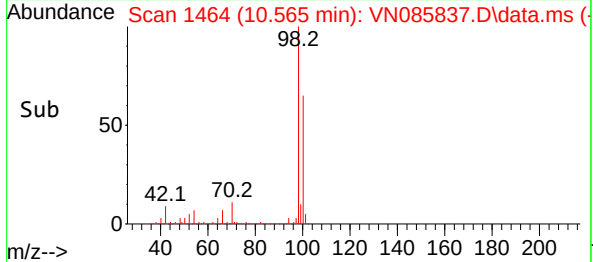
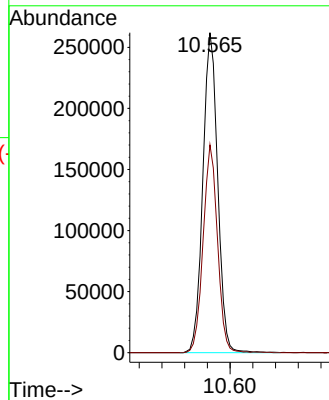
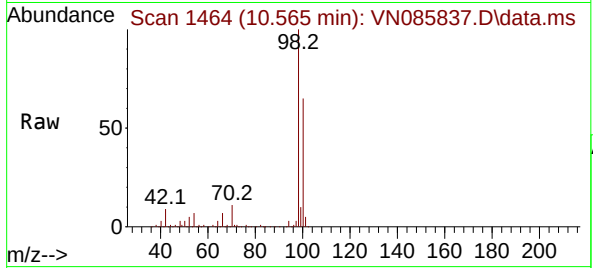




#50
Toluene-d8
Concen: 49.141 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085837.D
Acq: 24 Feb 2025 15:13

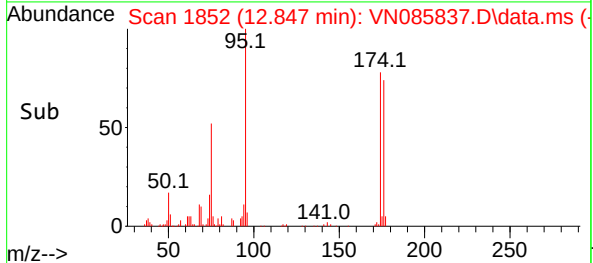
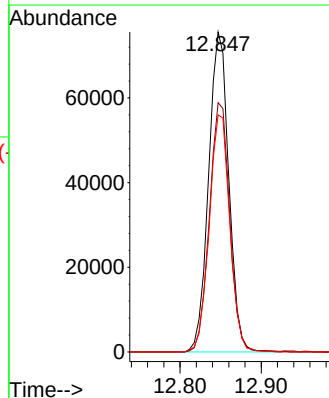
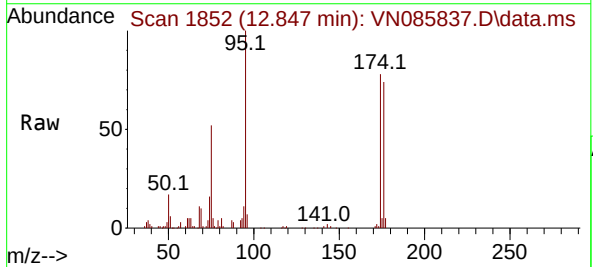
Instrument :
MSVOA_N
ClientSampleId :
MW-22-021925

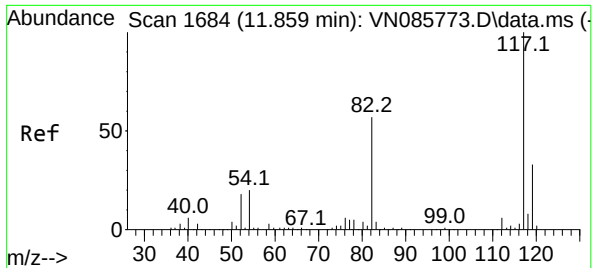
Tgt Ion: 98 Resp: 474083
Ion Ratio Lower Upper
98 100
100 62.9 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 40.956 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085837.D
Acq: 24 Feb 2025 15:13

Tgt Ion: 95 Resp: 130184
Ion Ratio Lower Upper
95 100
174 78.6 0.0 152.4
176 75.3 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085837.D

Acq: 24 Feb 2025 15:13

Instrument :

MSVOA_N

ClientSampleId :

MW-22-021925

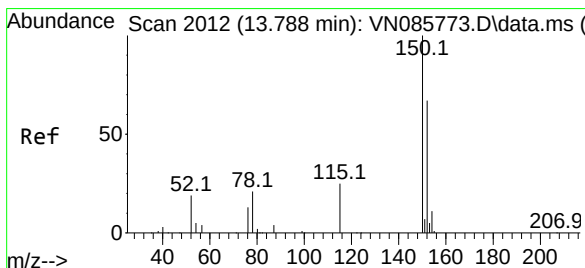
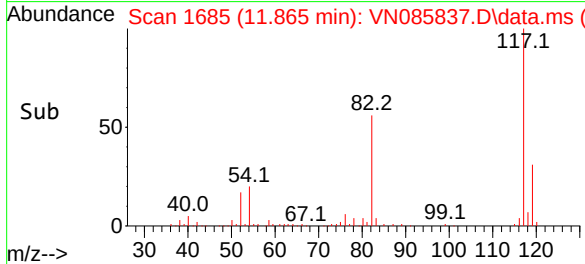
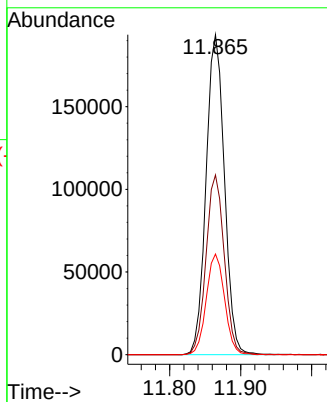
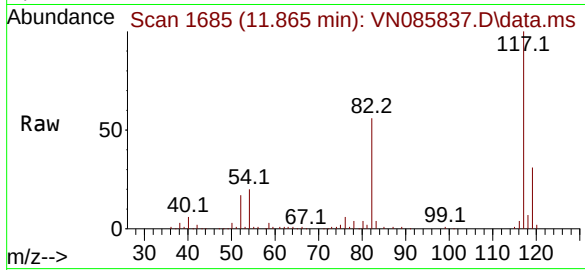
Tgt Ion:117 Resp: 347826

Ion Ratio Lower Upper

117 100

82 56.2 45.7 68.5

119 31.4 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN085837.D

Acq: 24 Feb 2025 15:13

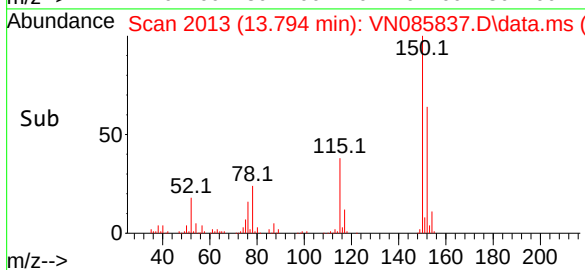
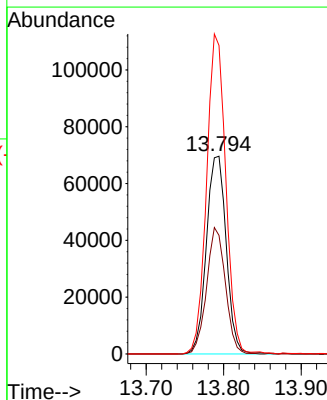
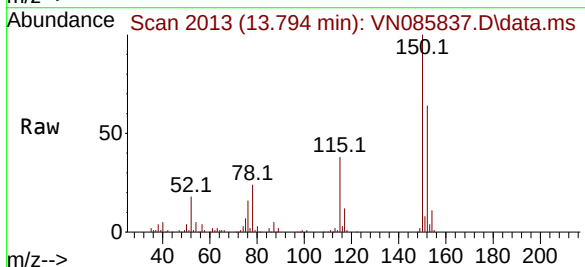
Tgt Ion:152 Resp: 123885

Ion Ratio Lower Upper

152 100

115 60.6 30.4 91.3

150 156.1 0.0 345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085837.D
 Acq On : 24 Feb 2025 15:13
 Operator : JC\MD
 Sample : Q1405-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-22-021925

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Title : SW846 8260

Signal : TIC: VN085837.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.965	1014	1022	1030	rBV2	5737	13556	1.12%	0.218%
2	8.165	1044	1056	1061	rBV	197991	481091	39.85%	7.734%
3	8.224	1061	1066	1076	rVB	287224	630623	52.23%	10.138%
4	8.359	1081	1089	1097	rVB3	11710	29755	2.46%	0.478%
5	8.577	1116	1126	1135	rBV	208424	453262	37.54%	7.287%
6	8.777	1151	1160	1177	rVB3	19379	88952	7.37%	1.430%
7	9.100	1207	1215	1230	rBV	458063	930482	77.07%	14.958%
8	10.565	1456	1464	1478	rBV	670771	1207322	100.00%	19.409%
9	11.865	1675	1685	1697	rBV	572510	1026389	85.01%	16.500%
10	12.847	1845	1852	1861	rBV	364731	627668	51.99%	10.090%
11	13.788	2005	2012	2023	rBV	425650	731458	60.59%	11.759%

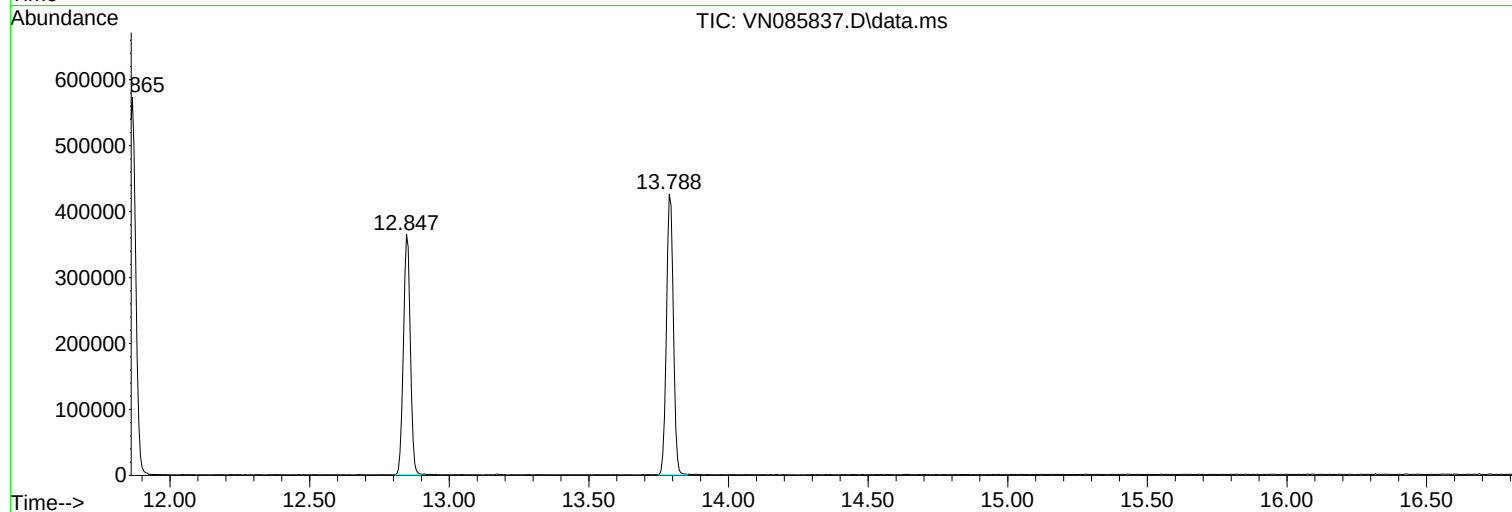
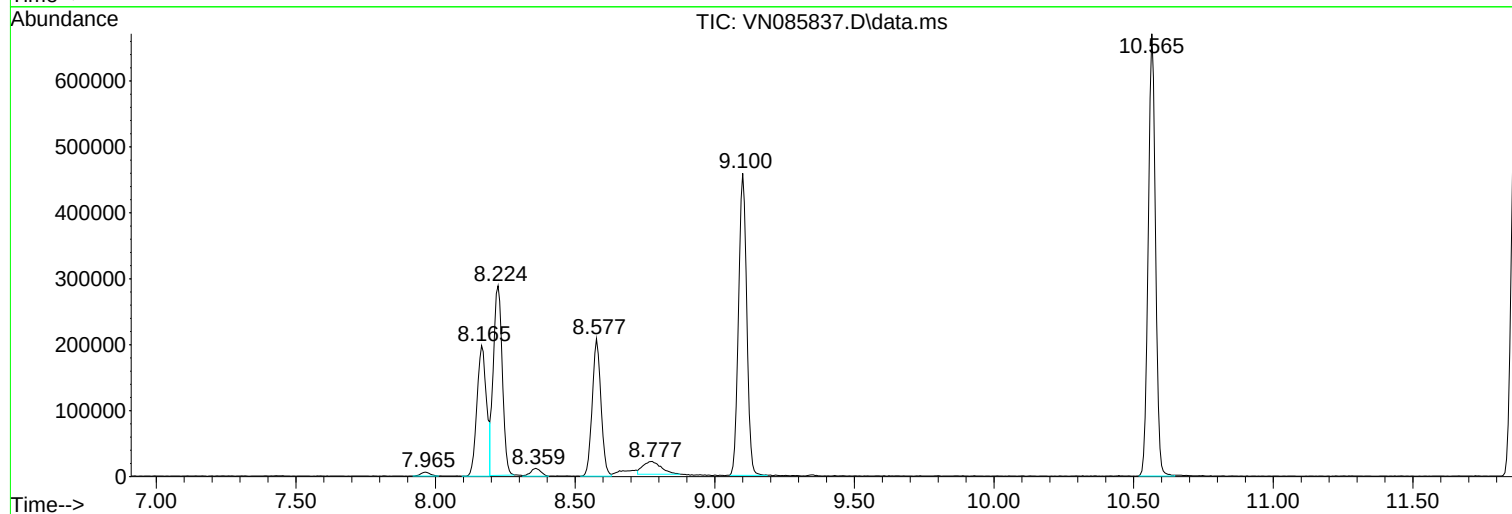
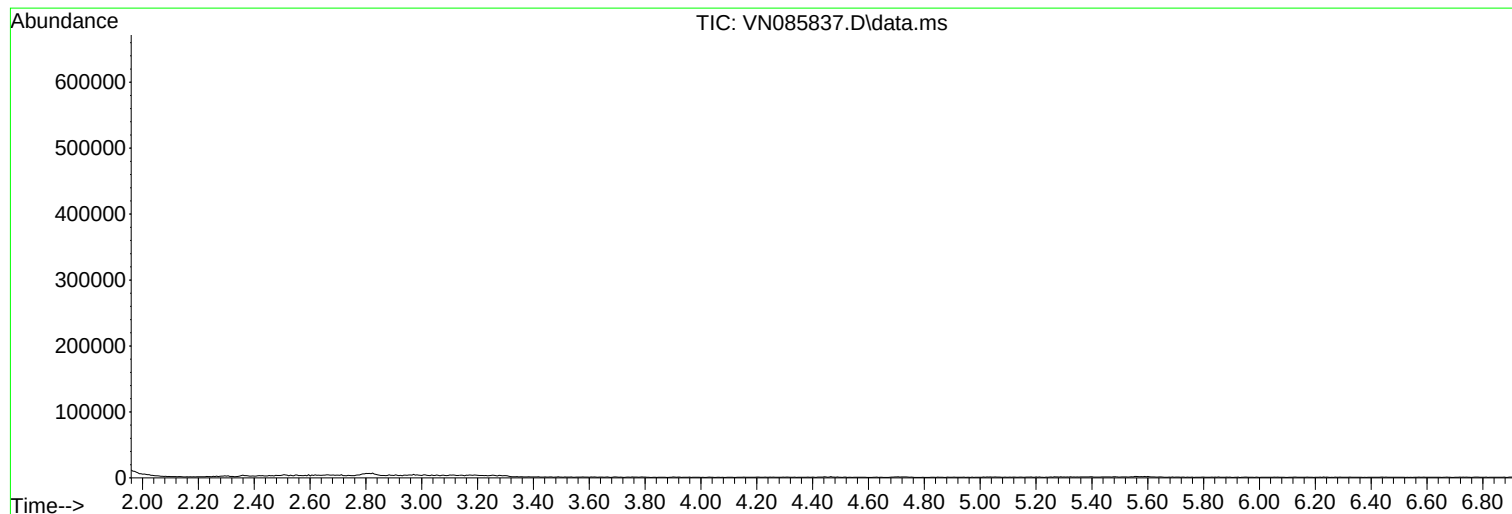
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085837.D
Acq On : 24 Feb 2025 15:13
Operator : JC\MD
Sample : Q1405-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-22-021925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085837.D
Acq On : 24 Feb 2025 15:13
Operator : JC\MD
Sample : Q1405-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-22-021925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085837.D
Acq On : 24 Feb 2025 15:13
Operator : JC\MD
Sample : Q1405-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-22-021925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	02/14/25
Project:	REAC Commodore	Date Received:	02/21/25
Client Sample ID:	MW-23-021425	SDG No.:	Q1405
Lab Sample ID:	Q1405-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085826.D	1		02/22/25 00:36	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	3.90		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.35	J	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	4.20		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	UQ	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/14/25	
Project:	REAC Commodore			Date Received:	02/21/25	
Client Sample ID:	MW-23-021425			SDG No.:	Q1405	
Lab Sample ID:	Q1405-06			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085826.D	1		02/22/25 00:36	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	UQ	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	UQ	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	UQ	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	UQ	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.9		74 - 125	116%	SPK: 50
1868-53-7	Dibromofluoromethane	53.3		75 - 124	107%	SPK: 50
2037-26-5	Toluene-d8	49.8		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	257000	8.218			
540-36-3	1,4-Difluorobenzene	483000	9.1			
3114-55-4	Chlorobenzene-d5	427000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	167000	13.788			

Report of Analysis

Client:	TechLaw Consultants, Inc		Date Collected:	02/14/25	
Project:	REAC Commodore		Date Received:	02/21/25	
Client Sample ID:	MW-23-021425		SDG No.:	Q1405	
Lab Sample ID:	Q1405-06		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085826.D	1		02/22/25 00:36	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022125\
 Data File : VN085826.D
 Acq On : 22 Feb 2025 00:36
 Operator : JC\MD
 Sample : Q1405-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-23-021425

Quant Time: Feb 22 02:46:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

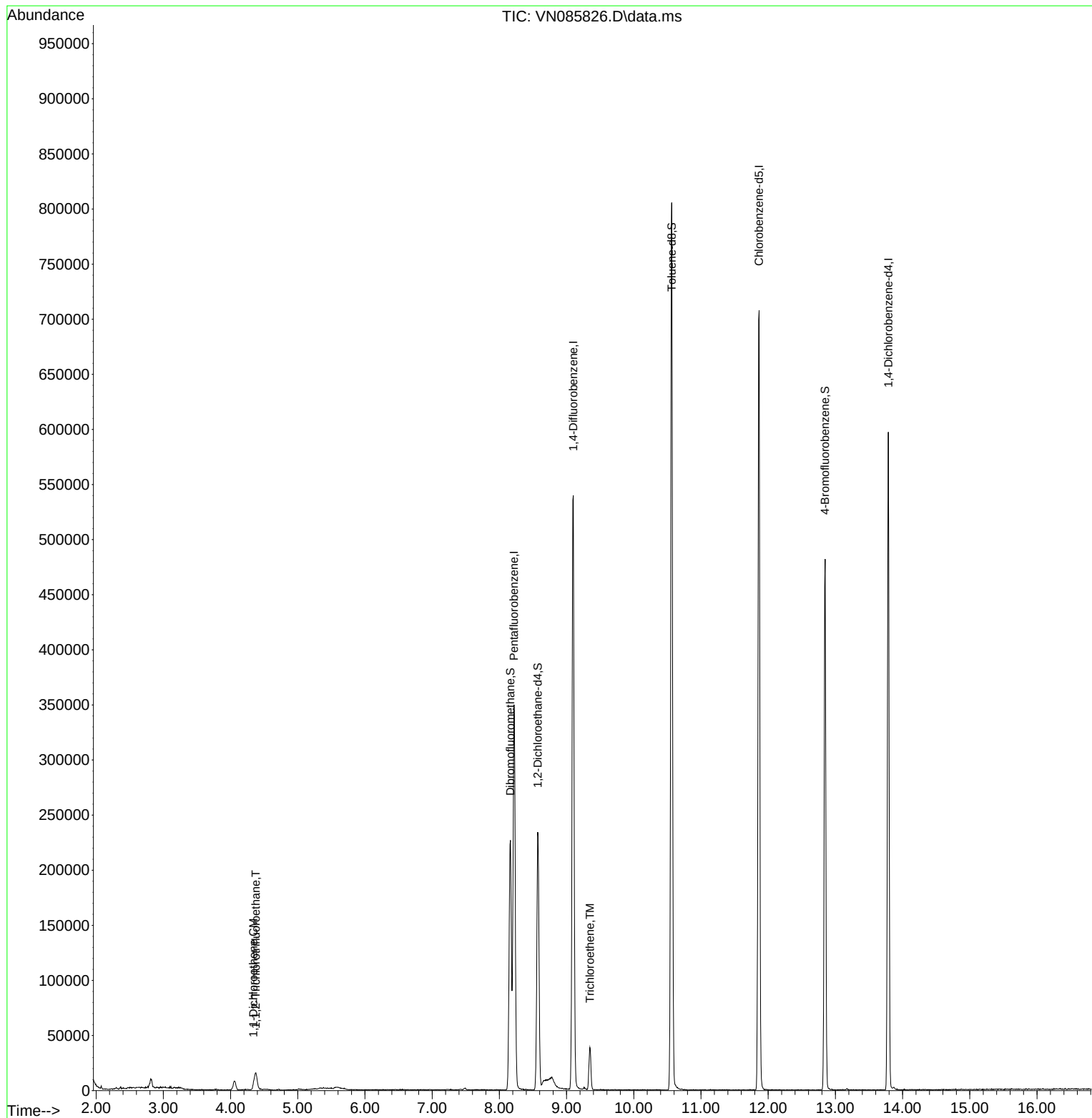
Internal Standards						
1) Pentafluorobenzene	8.218	168	256602	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	482778	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	427454	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	167368	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	192619	57.900	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	115.800%
35) Dibromofluoromethane	8.165	113	168431	53.317	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	106.640%
50) Toluene-d8	10.565	98	572021	49.768	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.540%
62) 4-Bromofluorobenzene	12.847	95	171182	45.204	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	90.400%
Target Compounds						
					Qvalue	
9) 1,1,2-Trichlorotrifluo...	4.377	101	11982	3.861	ug/l	95
12) 1,1-Dichloroethene	4.342	96	987	0.351	ug/l #	79
44) Trichloroethene	9.347	130	14750	4.192	ug/l	93

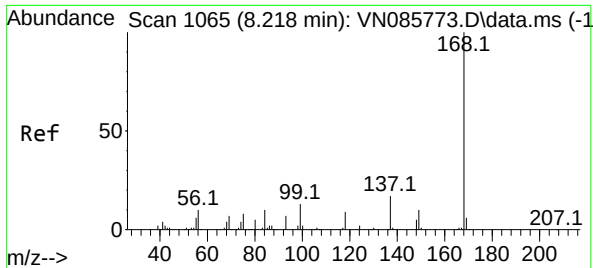
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085826.D
Acq On : 22 Feb 2025 00:36
Operator : JC\MD
Sample : Q1405-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-23-021425

Quant Time: Feb 22 02:46:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

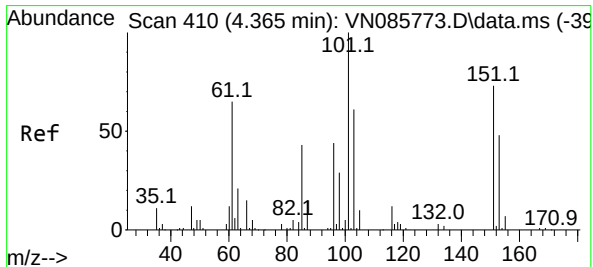
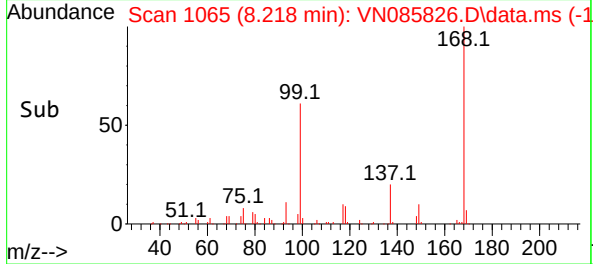
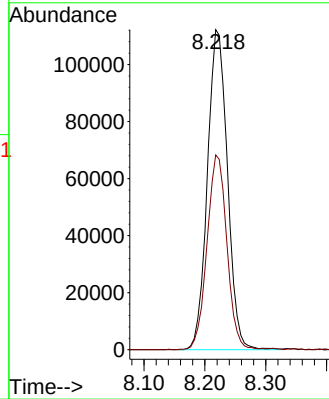
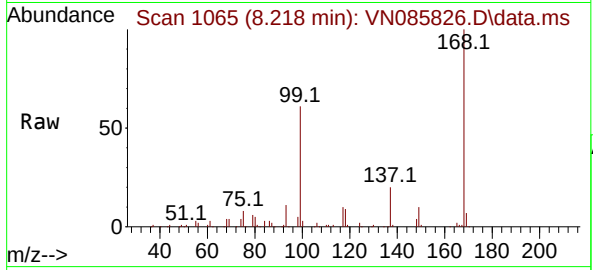




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085826.D
Acq: 22 Feb 2025 00:36

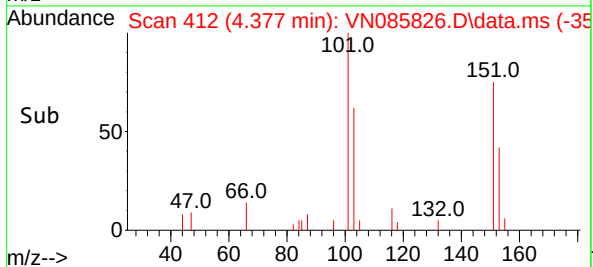
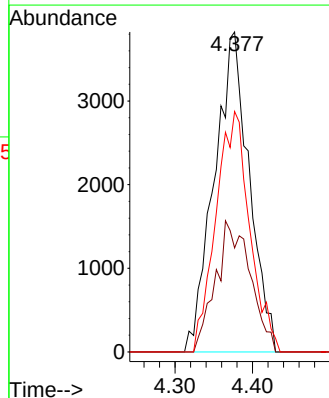
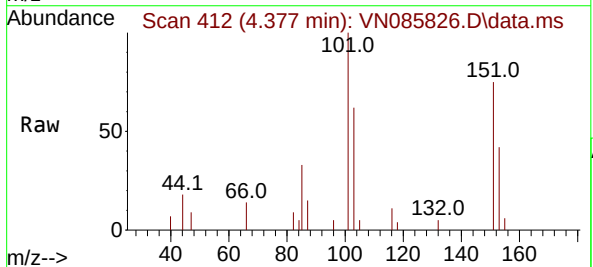
Instrument :
MSVOA_N
ClientSampleId :
MW-23-021425

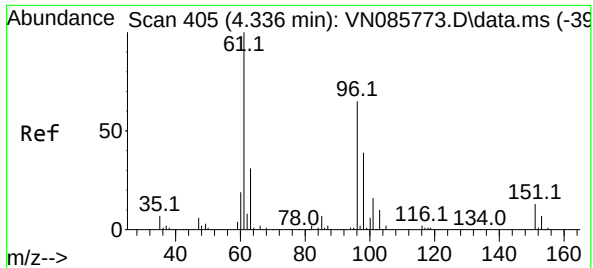
Tgt Ion:168 Resp: 256602
Ion Ratio Lower Upper
168 100
99 60.7 47.9 71.9



#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.861 ug/l
RT: 4.377 min Scan# 412
Delta R.T. 0.012 min
Lab File: VN085826.D
Acq: 22 Feb 2025 00:36

Tgt Ion:101 Resp: 11982
Ion Ratio Lower Upper
101 100
85 40.7 35.7 53.5
151 72.8 61.4 92.2





#12

1,1-Dichloroethene

Concen: 0.351 ug/l

RT: 4.342 min Scan# 405

Delta R.T. 0.006 min

Lab File: VN085826.D

Acq: 22 Feb 2025 00:36

Instrument :

MSVOA_N

ClientSampleId :

MW-23-021425

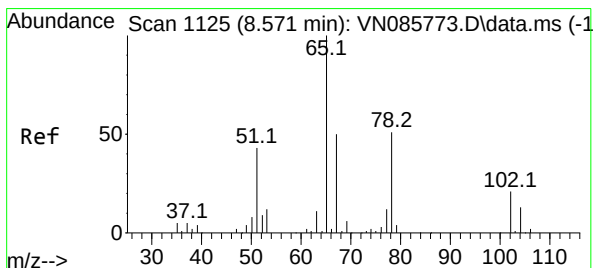
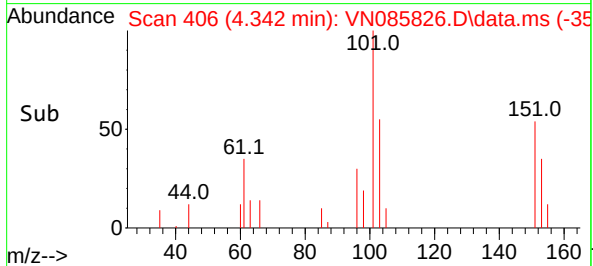
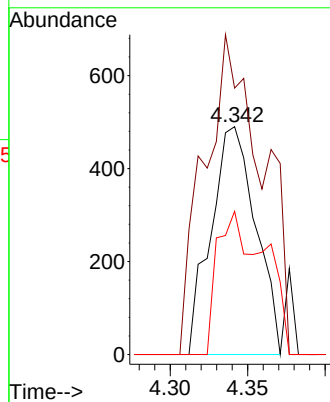
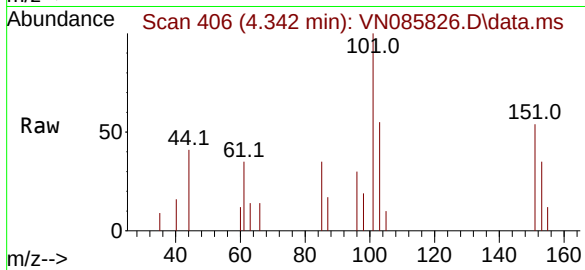
Tgt Ion: 96 Resp: 987

Ion Ratio Lower Upper

96 100

61 116.9 123.3 184.9#

98 62.9 48.6 72.8



#33

1,2-Dichloroethane-d4

Concen: 57.900 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. -0.000 min

Lab File: VN085826.D

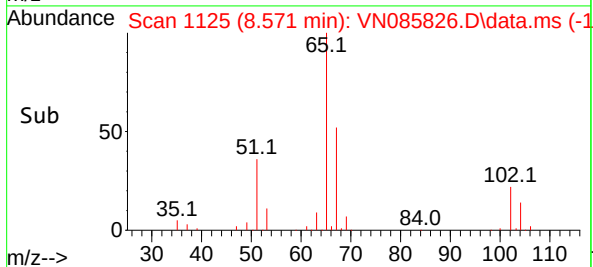
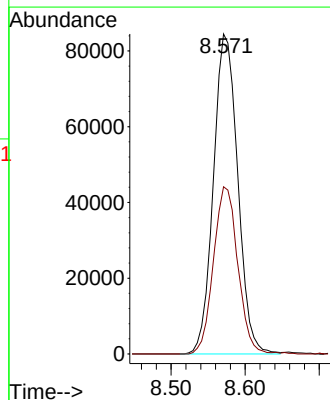
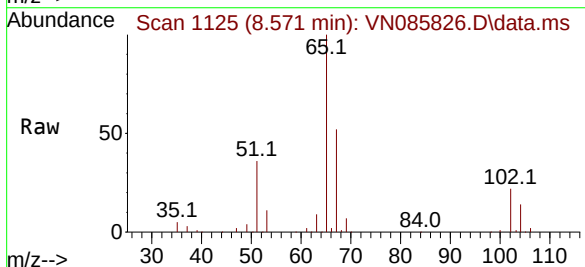
Acq: 22 Feb 2025 00:36

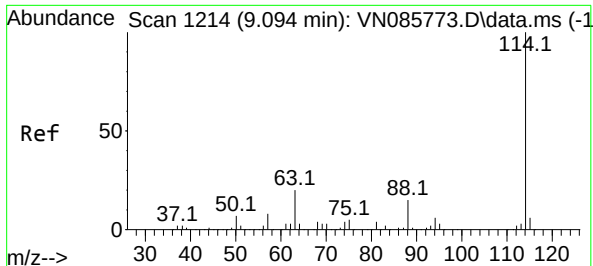
Tgt Ion: 65 Resp: 192619

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085826.D

Acq: 22 Feb 2025 00:36

Instrument :

MSVOA_N

ClientSampleId :

MW-23-021425

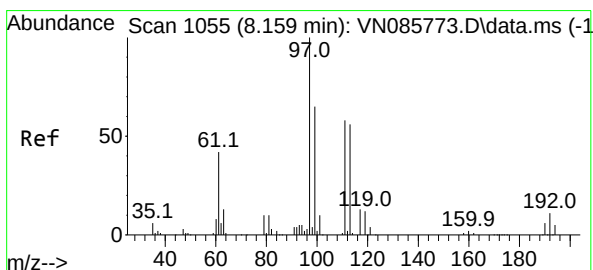
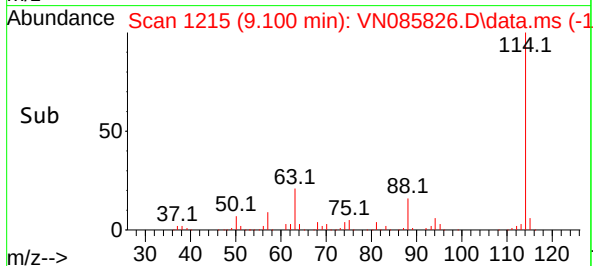
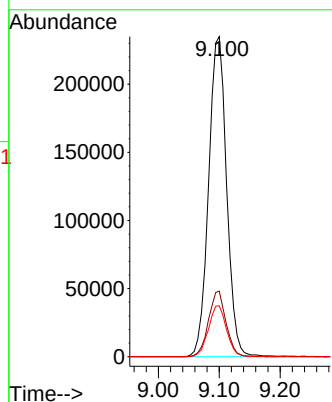
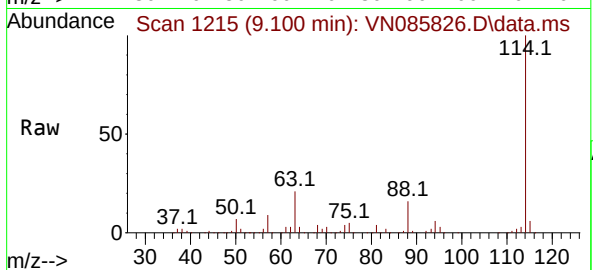
Tgt Ion:114 Resp: 482778

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.2

88 15.9 0.0 30.0



#35

Dibromofluoromethane

Concen: 53.317 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085826.D

Acq: 22 Feb 2025 00:36

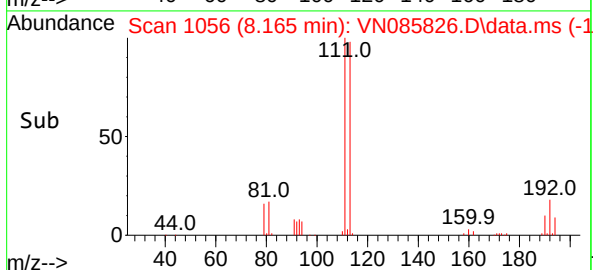
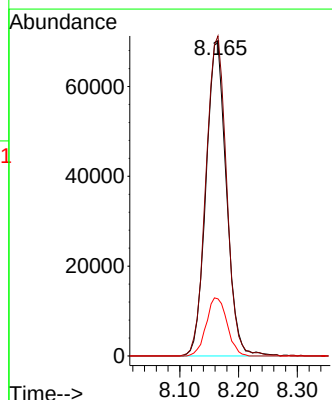
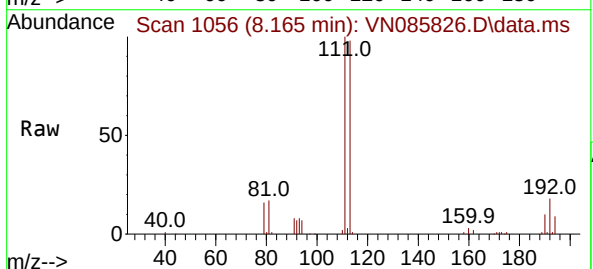
Tgt Ion:113 Resp: 168431

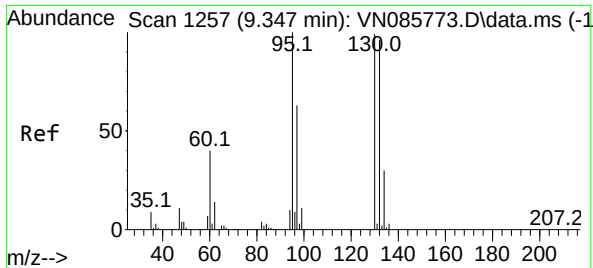
Ion Ratio Lower Upper

113 100

111 103.1 82.2 123.4

192 18.9 14.7 22.1

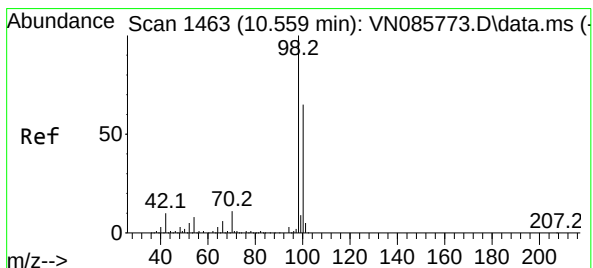
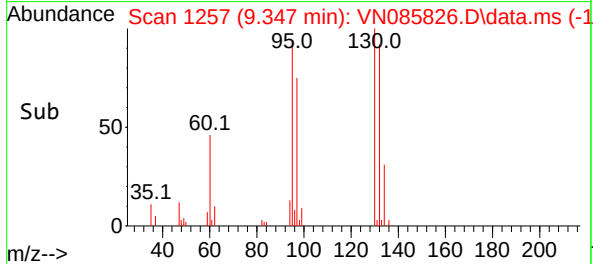
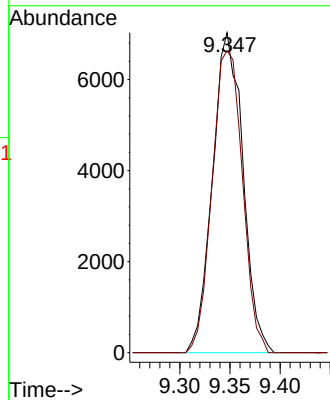
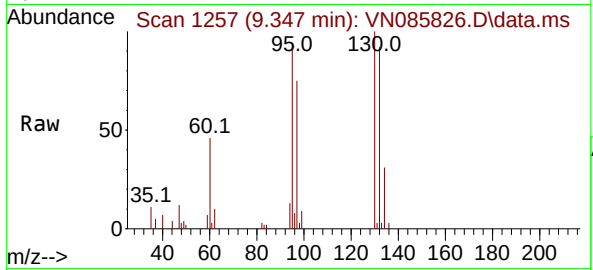




#44
Trichloroethene
Concen: 4.192 ug/l
RT: 9.347 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085826.D
Acq: 22 Feb 2025 00:36

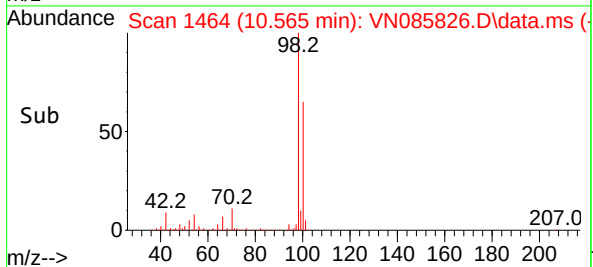
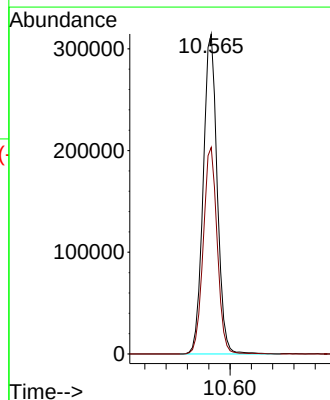
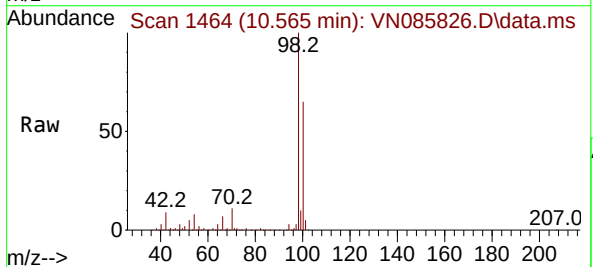
Instrument :
MSVOA_N
ClientSampleId :
MW-23-021425

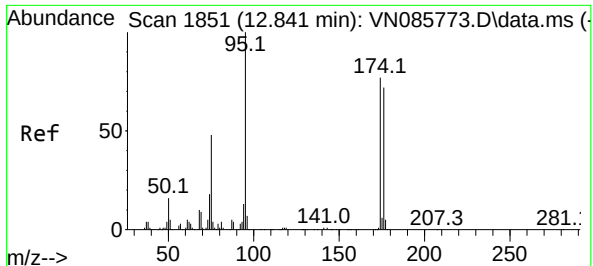
Tgt Ion:130 Resp: 14750
Ion Ratio Lower Upper
130 100
95 94.4 0.0 202.6



#50
Toluene-d8
Concen: 49.768 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085826.D
Acq: 22 Feb 2025 00:36

Tgt Ion: 98 Resp: 572021
Ion Ratio Lower Upper
98 100
100 64.5 52.1 78.1

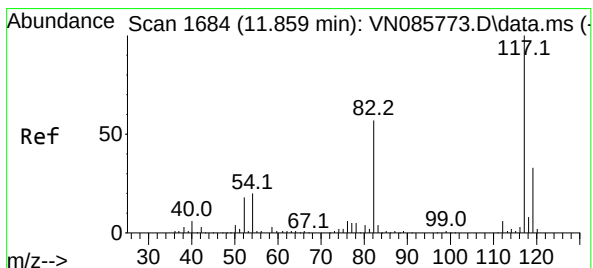
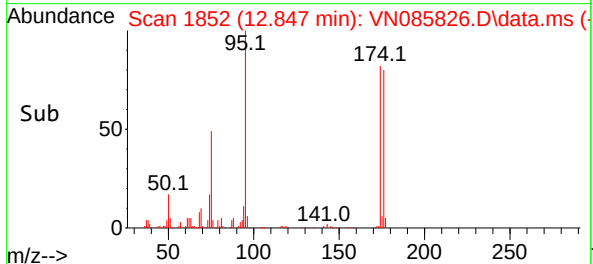
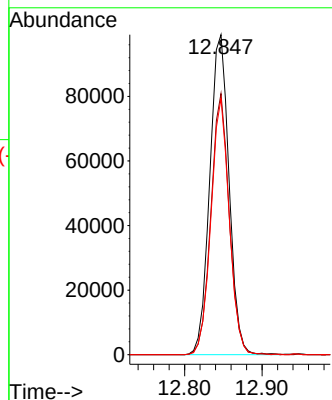
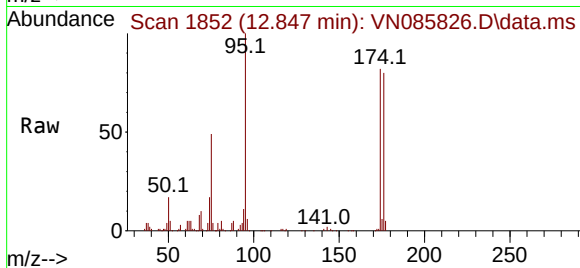




#62
4-Bromofluorobenzene
Concen: 45.204 ug/l
RT: 12.847 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VN085826.D
Acq: 22 Feb 2025 00:36

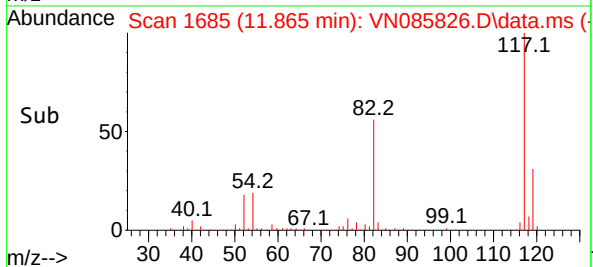
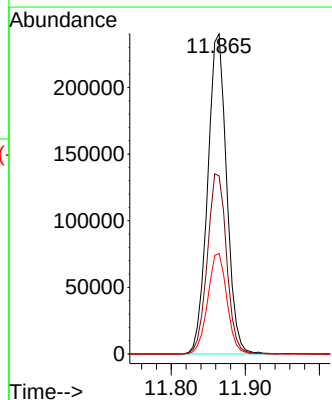
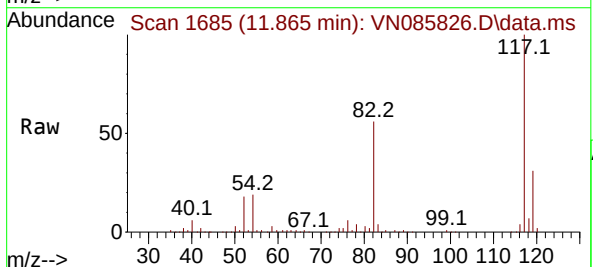
Instrument :
MSVOA_N
ClientSampleId :
MW-23-021425

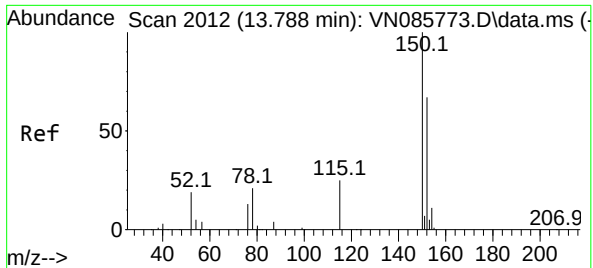
Tgt Ion: 95 Resp: 171182
Ion Ratio Lower Upper
95 100
174 77.9 0.0 152.4
176 75.8 0.0 146.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085826.D
Acq: 22 Feb 2025 00:36

Tgt Ion: 117 Resp: 427454
Ion Ratio Lower Upper
117 100
82 55.7 45.7 68.5
119 31.4 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN085826.D

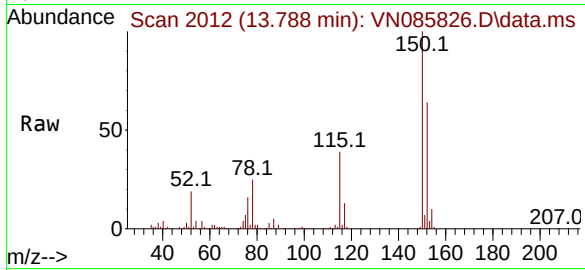
Acq: 22 Feb 2025 00:36

Instrument :

MSVOA_N

ClientSampleId :

MW-23-021425



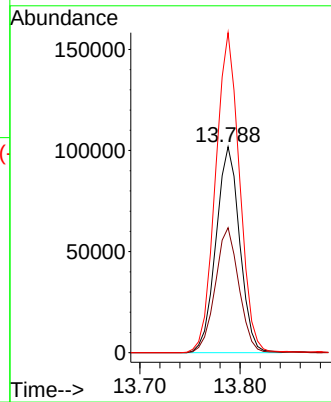
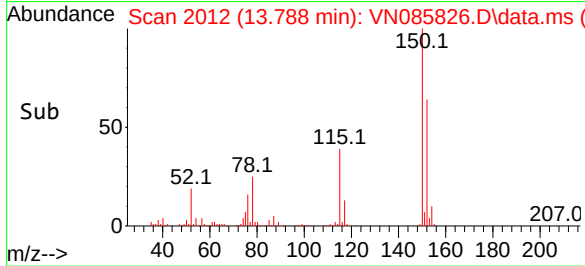
Tgt Ion:152 Resp: 167368

Ion Ratio Lower Upper

152 100

115 60.7 30.4 91.3

150 157.3 0.0 345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085826.D
Acq On : 22 Feb 2025 00:36
Operator : JC\MD
Sample : Q1405-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-23-021425

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Title : SW846 8260

Signal : TIC: VN085826.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.812	140	146	151	rBV3	7902	17518	1.19%	0.227%
2	4.059	349	358	366	rBV4	8082	22662	1.54%	0.294%
3	4.377	399	412	423	rBV5	15375	53451	3.63%	0.693%
4	8.165	1045	1056	1060	rBV	226568	544737	36.97%	7.066%
5	8.218	1060	1065	1079	rVB	348550	788319	53.51%	10.225%
6	8.571	1116	1125	1134	rBV	233892	531273	36.06%	6.891%
7	9.100	1205	1215	1232	rBV	538867	1117121	75.83%	14.490%
8	9.347	1250	1257	1266	rVB2	38250	78145	5.30%	1.014%
9	10.565	1455	1464	1478	rBV	805061	1473264	100.00%	19.109%
10	11.865	1676	1685	1698	rBV	707367	1273496	86.44%	16.518%
11	12.847	1844	1852	1861	rBV	481348	818979	55.59%	10.623%
12	13.788	2004	2012	2023	rBV	596934	990827	67.25%	12.852%

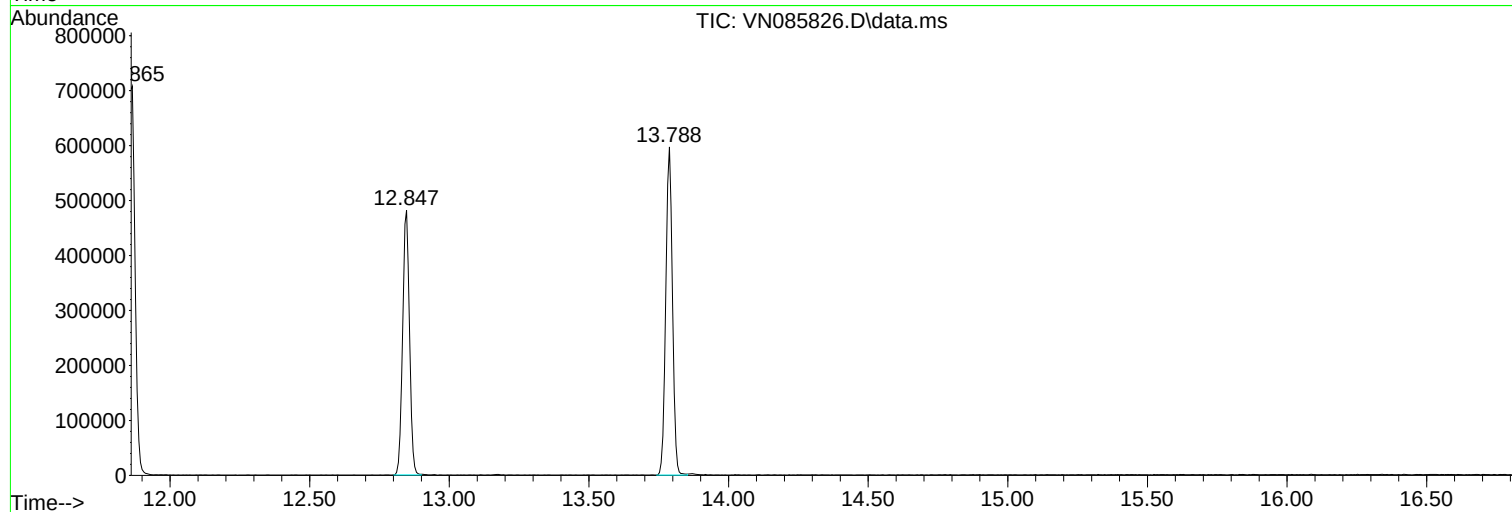
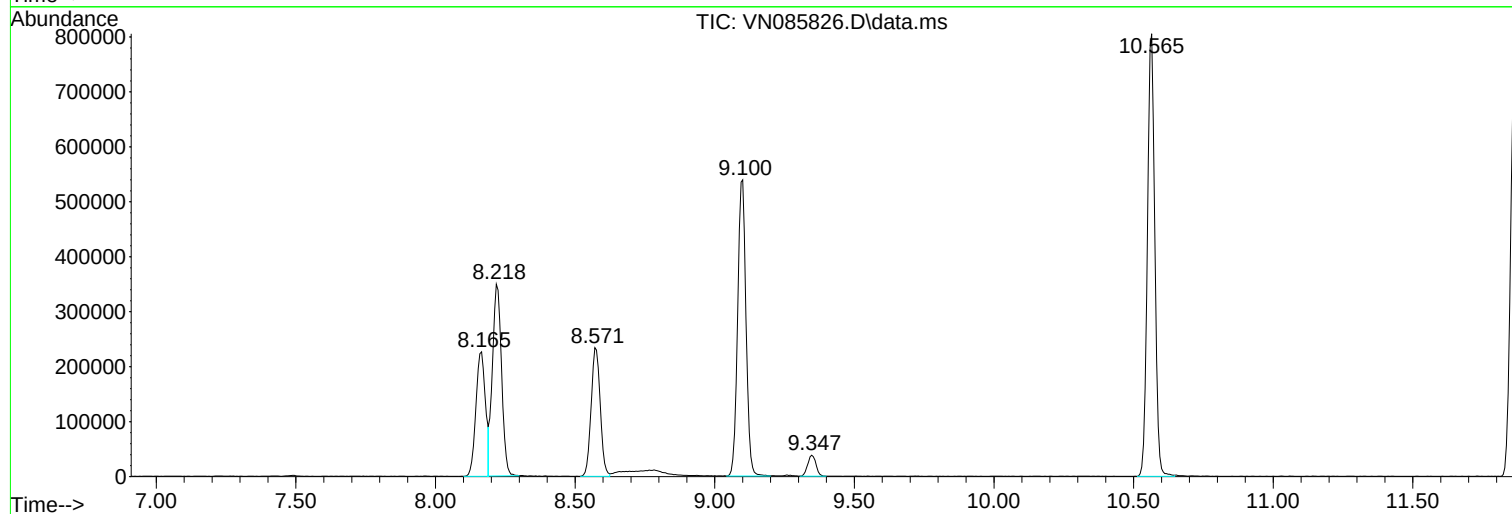
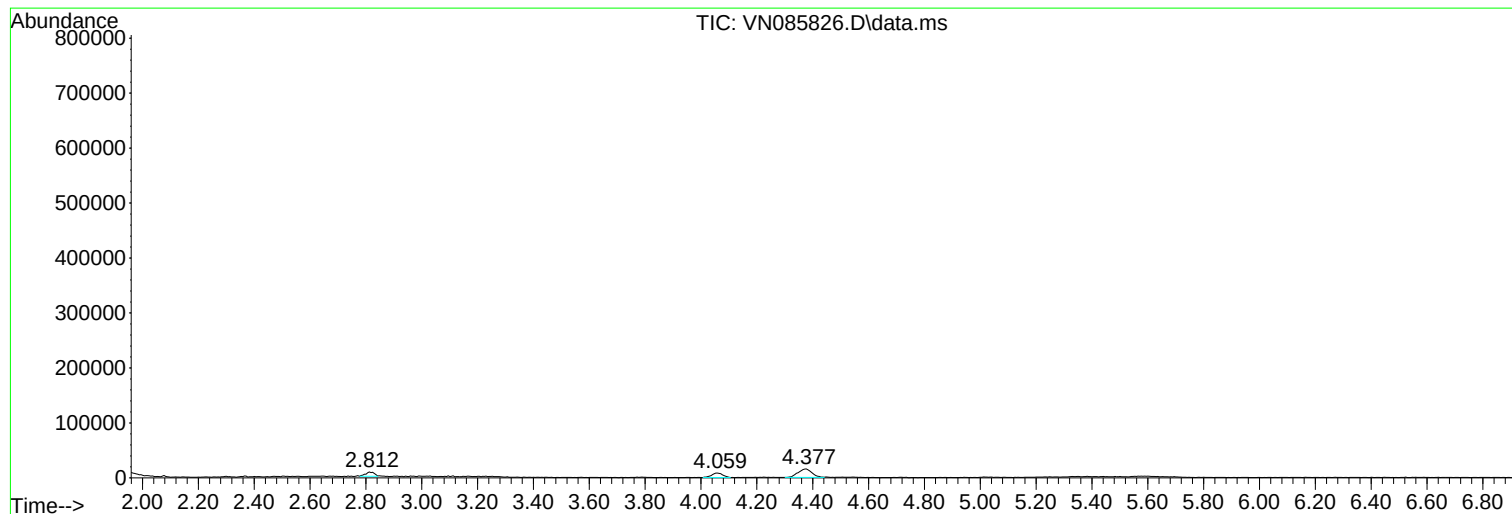
Sum of corrected areas: 7709792

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085826.D
Acq On : 22 Feb 2025 00:36
Operator : JC\MD
Sample : Q1405-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-23-021425

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085826.D
Acq On : 22 Feb 2025 00:36
Operator : JC\MD
Sample : Q1405-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-23-021425

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085826.D
Acq On : 22 Feb 2025 00:36
Operator : JC\MD
Sample : Q1405-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-23-021425

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	02/18/25
Project:	REAC Commodore	Date Received:	02/21/25
Client Sample ID:	MW-26-021825	SDG No.:	Q1405
Lab Sample ID:	Q1405-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085840.D	1		02/24/25 16:26	VN022425

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

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/18/25	
Project:	REAC Commodore			Date Received:	02/21/25	
Client Sample ID:	MW-26-021825			SDG No.:	Q1405	
Lab Sample ID:	Q1405-07			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085840.D	1		02/24/25 16:26	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	UQ	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	UQ	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	62.2		74 - 125	124%	SPK: 50
1868-53-7	Dibromofluoromethane	56.8		75 - 124	114%	SPK: 50
2037-26-5	Toluene-d8	50.0		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.4		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	210000	8.224			
540-36-3	1,4-Difluorobenzene	401000	9.1			
3114-55-4	Chlorobenzene-d5	357000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	143000	13.788			

Report of Analysis

Client:	TechLaw Consultants, Inc		Date Collected:	02/18/25	
Project:	REAC Commodore		Date Received:	02/21/25	
Client Sample ID:	MW-26-021825		SDG No.:	Q1405	
Lab Sample ID:	Q1405-07		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085840.D	1		02/24/25 16:26	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022425\
 Data File : VN085840.D
 Acq On : 24 Feb 2025 16:26
 Operator : JC\MD
 Sample : Q1405-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-26-021825

Quant Time: Feb 25 01:56:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

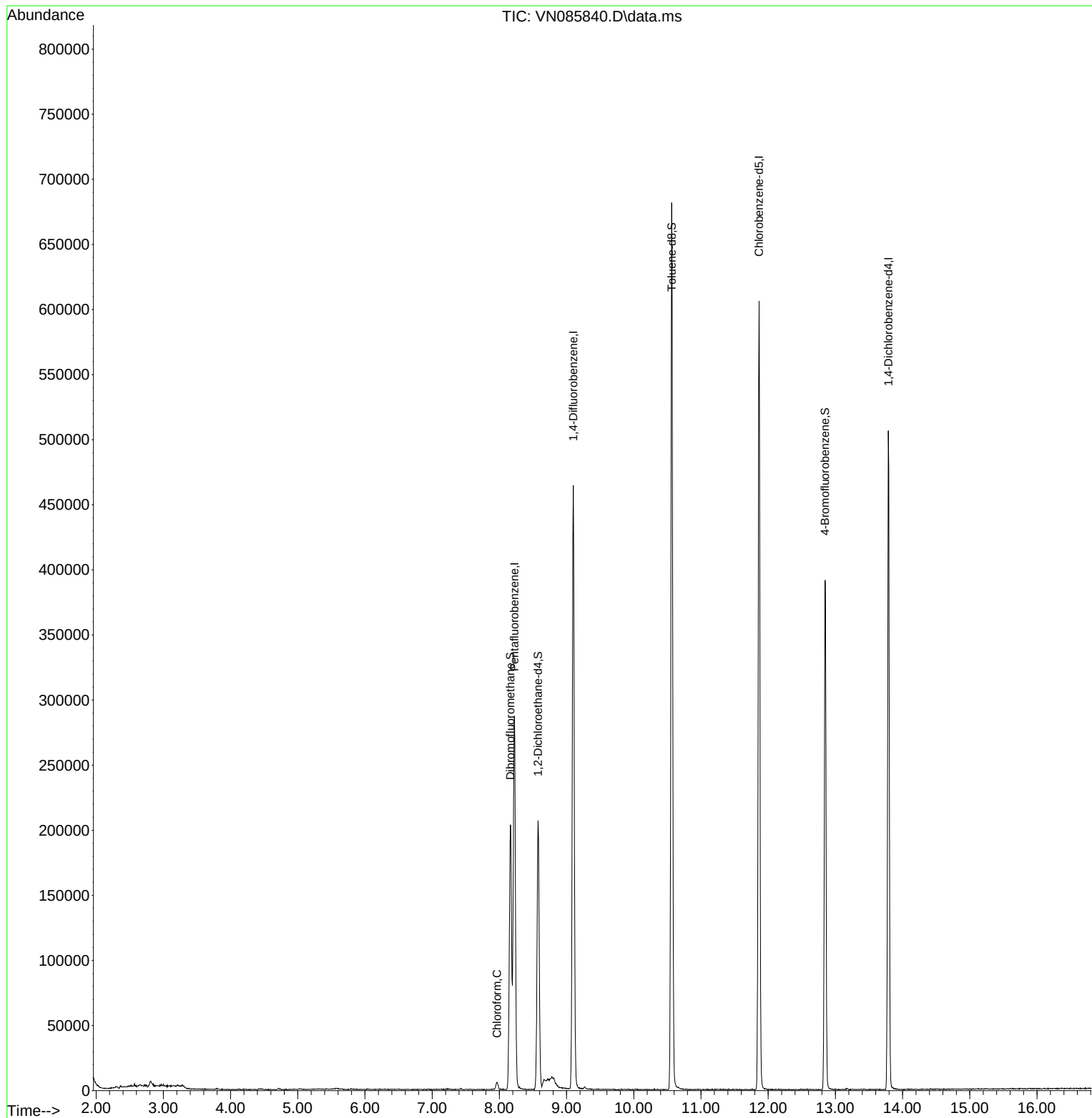
Internal Standards						
1) Pentafluorobenzene	8.224	168	210306	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	401411	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	356777	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143476	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	169648	62.221	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	124.440%
35) Dibromofluoromethane	8.165	113	149253	56.823	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	113.640%
50) Toluene-d8	10.565	98	477627	49.979	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.960%
62) 4-Bromofluorobenzene	12.847	95	139899	44.431	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	88.860%
Target Compounds						
30) Chloroform	7.965	83	5972	1.229	ug/l	98

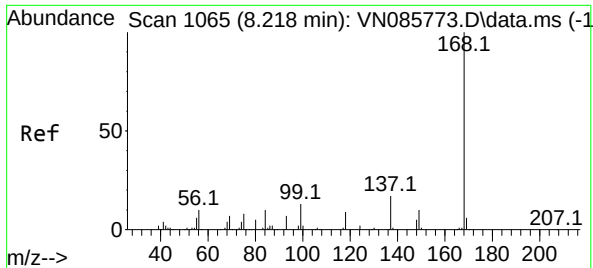
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085840.D
Acq On : 24 Feb 2025 16:26
Operator : JC\MD
Sample : Q1405-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-26-021825

Quant Time: Feb 25 01:56:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

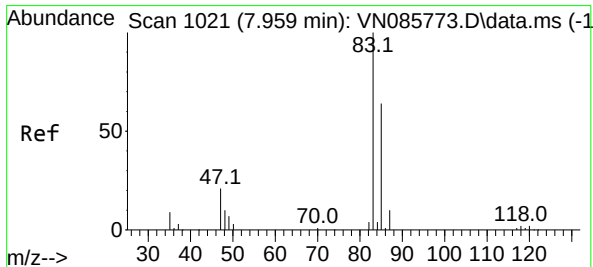
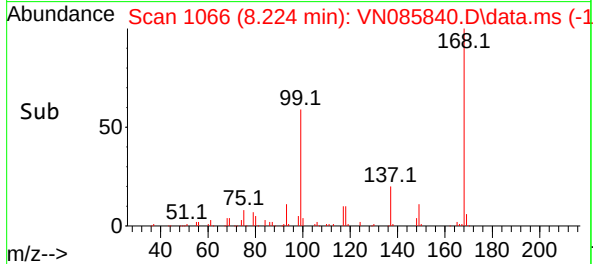
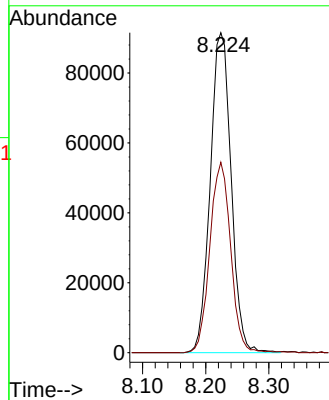
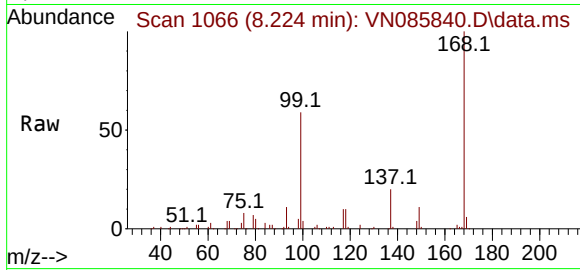




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085840.D
Acq: 24 Feb 2025 16:26

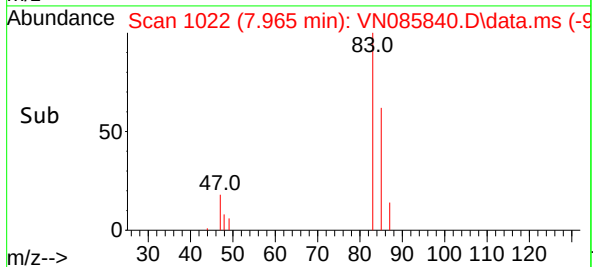
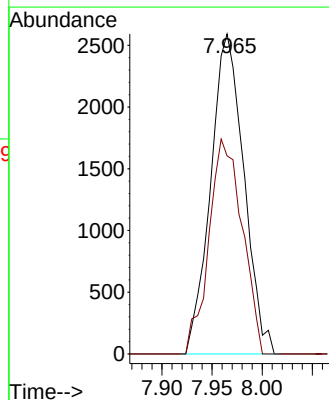
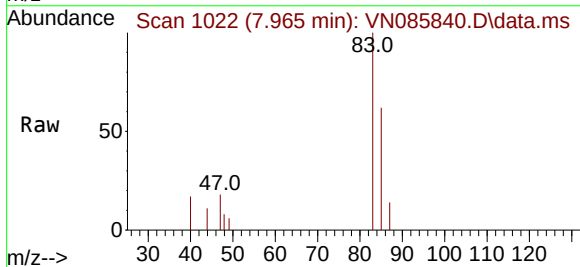
Instrument :
MSVOA_N
ClientSampleId :
MW-26-021825

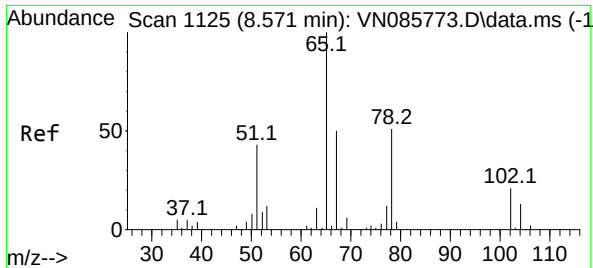
Tgt Ion:168 Resp: 210306
Ion Ratio Lower Upper
168 100
99 59.5 47.9 71.9



#30
Chloroform
Concen: 1.229 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085840.D
Acq: 24 Feb 2025 16:26

Tgt Ion: 83 Resp: 5972
Ion Ratio Lower Upper
83 100
85 61.9 50.9 76.3





#33

1,2-Dichloroethane-d4

Concen: 62.221 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085840.D

Acq: 24 Feb 2025 16:26

Instrument :

MSVOA_N

ClientSampleId :

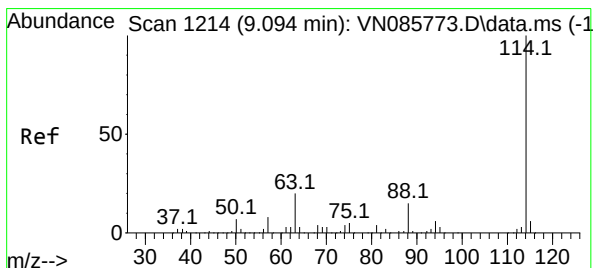
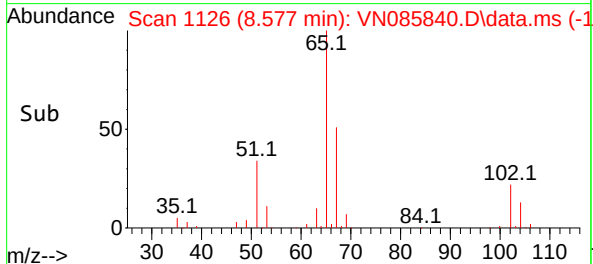
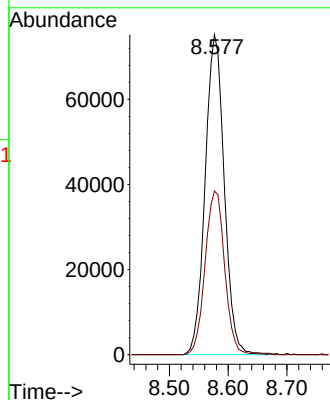
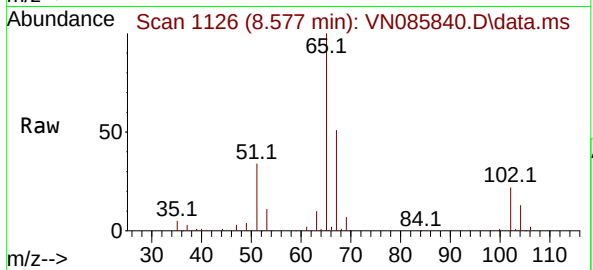
MW-26-021825

Tgt Ion: 65 Resp: 169648

Ion Ratio Lower Upper

65 100

67 52.2 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085840.D

Acq: 24 Feb 2025 16:26

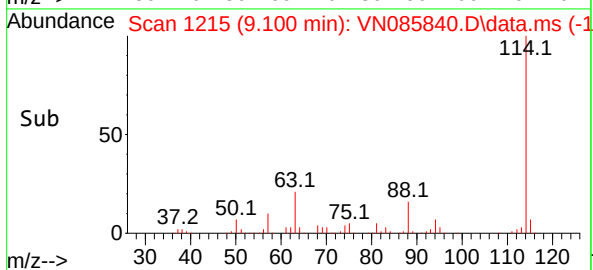
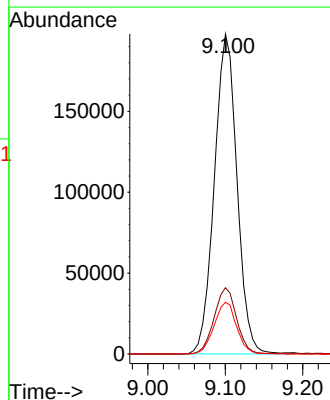
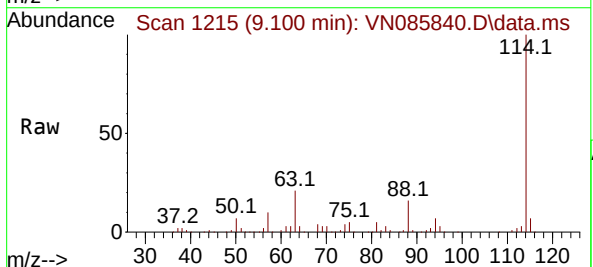
Tgt Ion: 114 Resp: 401411

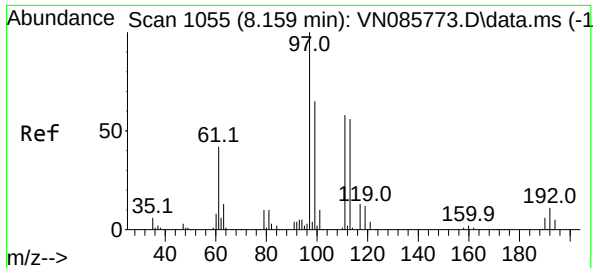
Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.2

88 16.2 0.0 30.0





#35

Dibromofluoromethane

Concen: 56.823 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN085840.D

Acq: 24 Feb 2025 16:26

Instrument :

MSVOA_N

ClientSampleId :

MW-26-021825

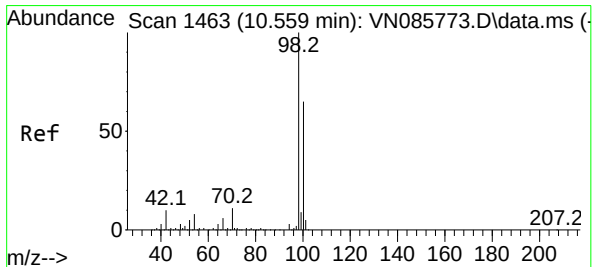
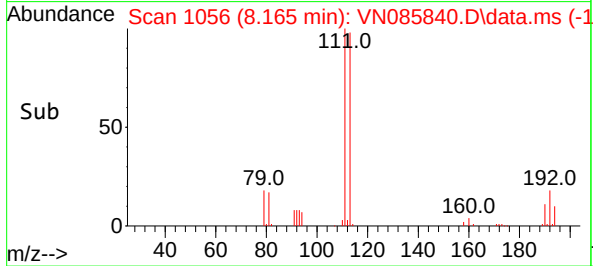
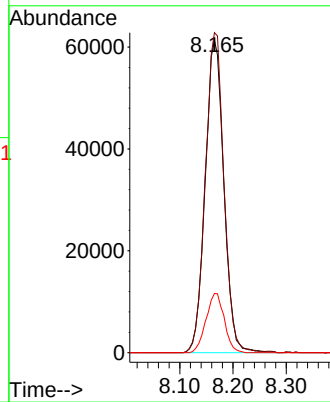
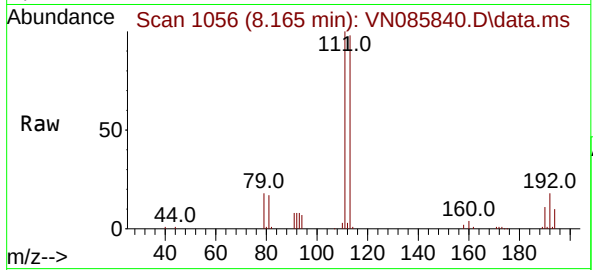
Tgt Ion:113 Resp: 149253

Ion Ratio Lower Upper

113 100

111 102.2 82.2 123.4

192 18.5 14.7 22.1



#50

Toluene-d8

Concen: 49.979 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085840.D

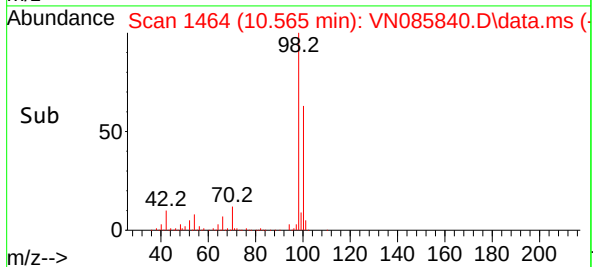
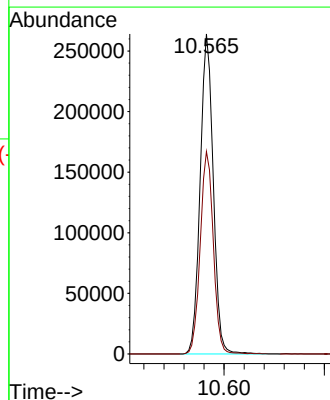
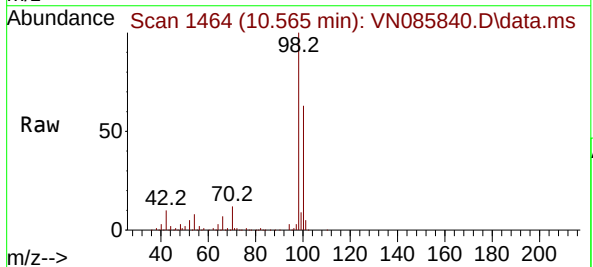
Acq: 24 Feb 2025 16:26

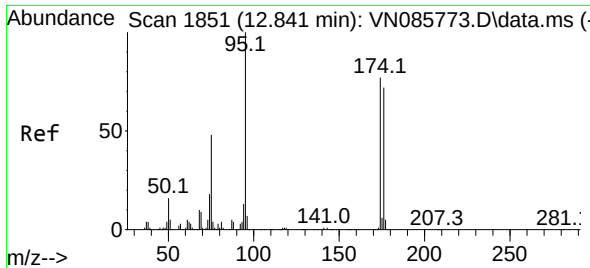
Tgt Ion: 98 Resp: 477627

Ion Ratio Lower Upper

98 100

100 63.4 52.1 78.1

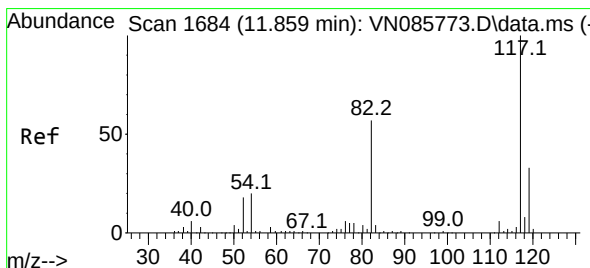
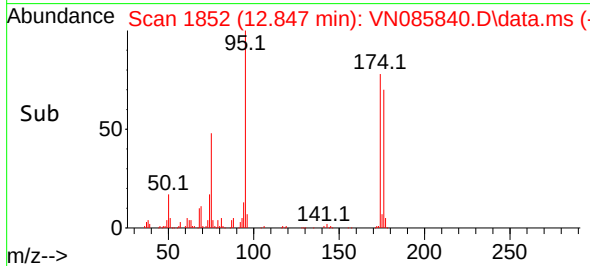
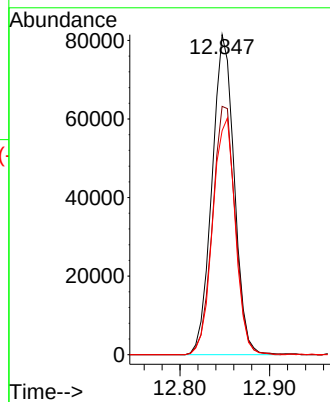
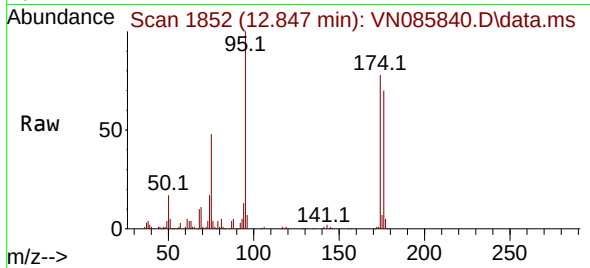




#62
4-Bromofluorobenzene
Concen: 44.431 ug/l
RT: 12.847 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VN085840.D
Acq: 24 Feb 2025 16:26

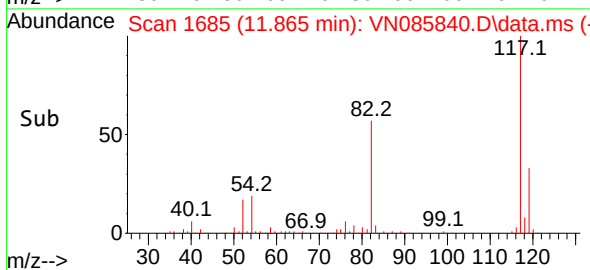
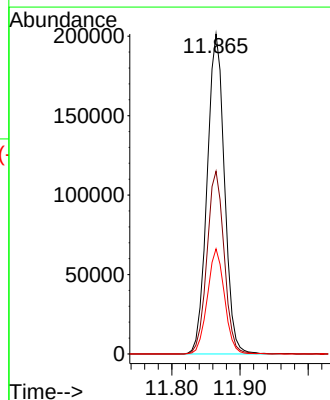
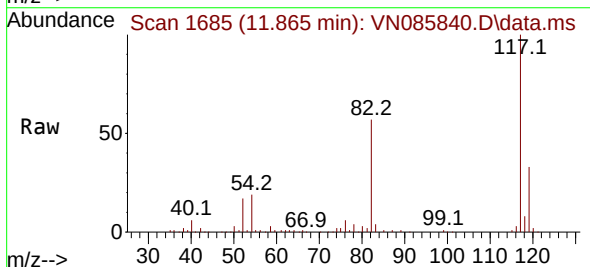
Instrument :
MSVOA_N
ClientSampleId :
MW-26-021825

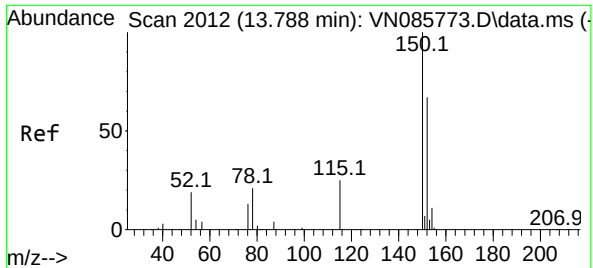
Tgt Ion: 95 Resp: 139899
Ion Ratio Lower Upper
95 100
174 79.8 0.0 152.4
176 75.2 0.0 146.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085840.D
Acq: 24 Feb 2025 16:26

Tgt Ion: 117 Resp: 356777
Ion Ratio Lower Upper
117 100
82 57.1 45.7 68.5
119 32.8 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN085840.D

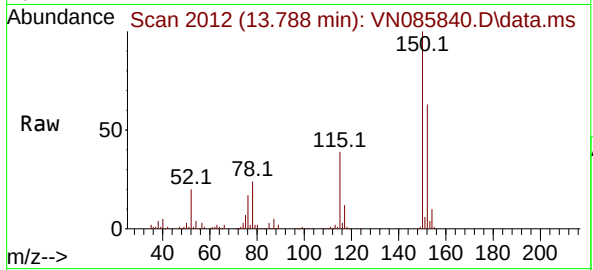
Acq: 24 Feb 2025 16:26

Instrument :

MSVOA_N

ClientSampleId :

MW-26-021825



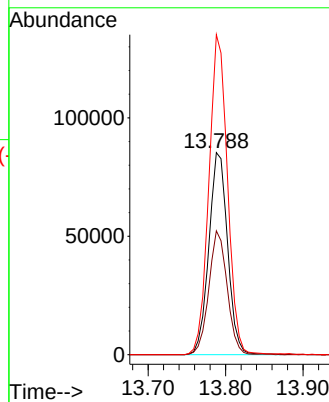
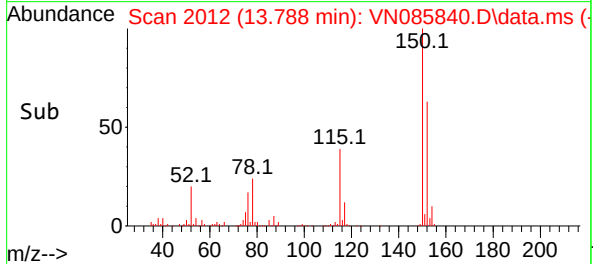
Tgt Ion:152 Resp: 143476

Ion Ratio Lower Upper

152 100

115 59.9 30.4 91.3

150 156.7 0.0 345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085840.D
Acq On : 24 Feb 2025 16:26
Operator : JC\MD
Sample : Q1405-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-26-021825

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Title : SW846 8260

Signal : TIC: VN085840.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.812	139	146	152	rBV5	4594	12393	1.01%	0.195%
2	8.165	1045	1056	1061	rBV	203530	492543	40.09%	7.740%
3	8.224	1061	1066	1078	rVB	285994	631022	51.36%	9.916%
4	8.577	1116	1126	1135	rBV	206817	466819	38.00%	7.336%
5	9.100	1206	1215	1229	rBV	463480	939928	76.51%	14.771%
6	10.565	1455	1464	1476	rBV	681311	1228512	100.00%	19.306%
7	11.865	1675	1685	1699	rBV	605798	1067283	86.88%	16.772%
8	12.847	1844	1852	1863	rBV	391348	677477	55.15%	10.646%
9	13.788	2005	2012	2021	rBV	506074	847469	68.98%	13.318%

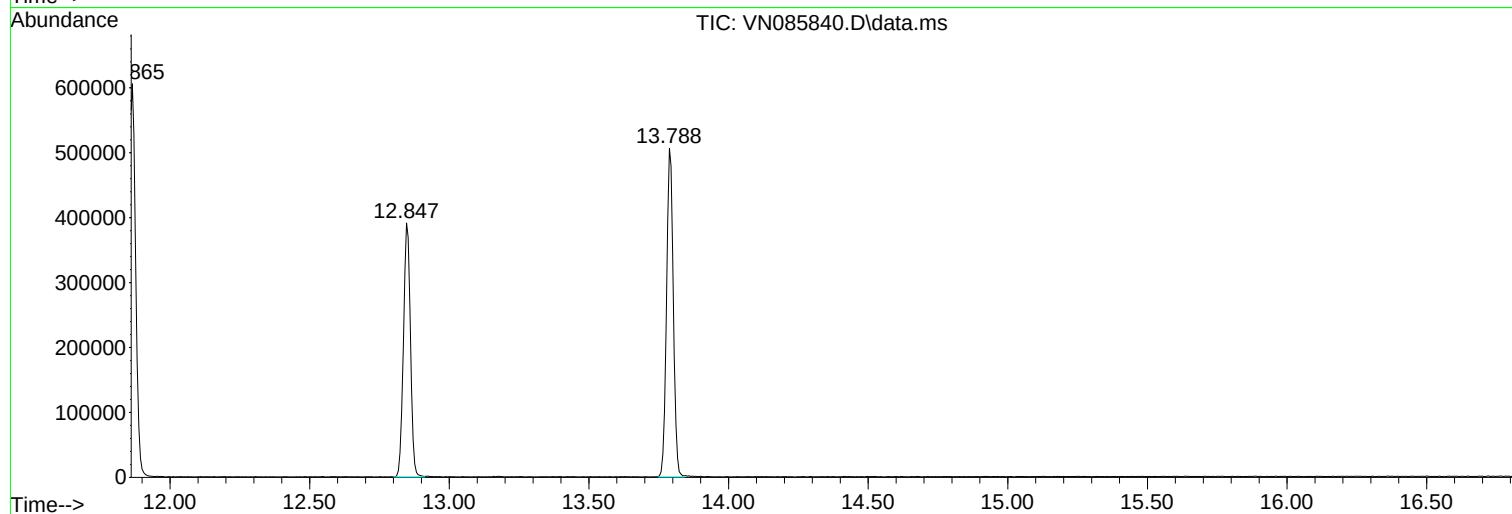
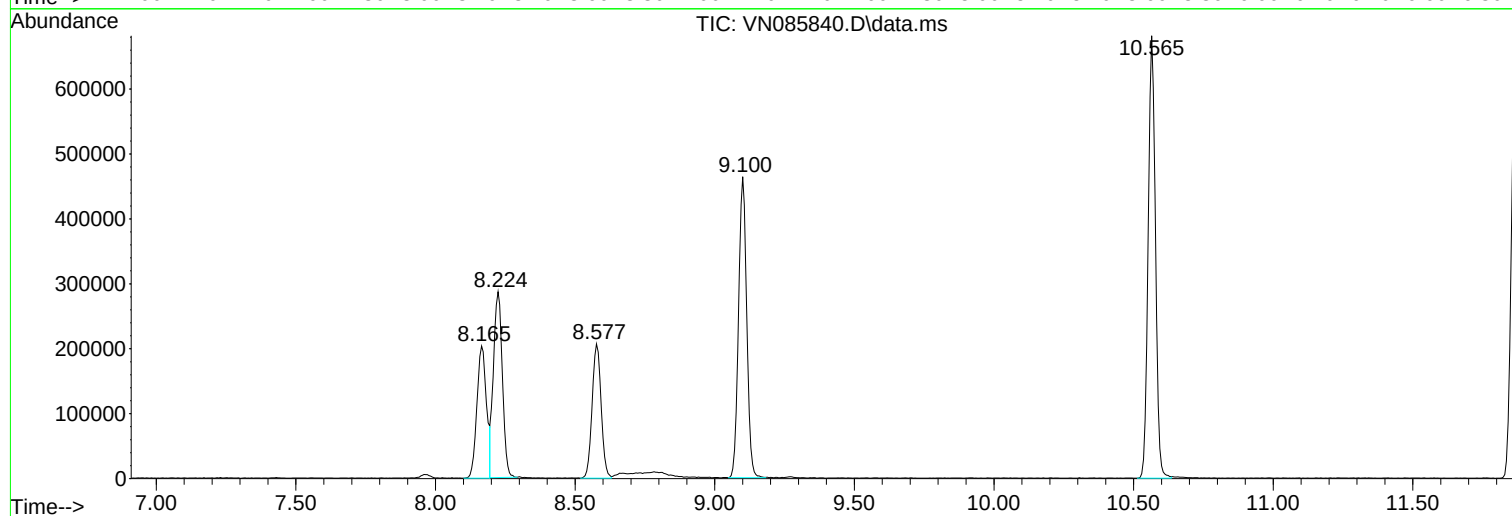
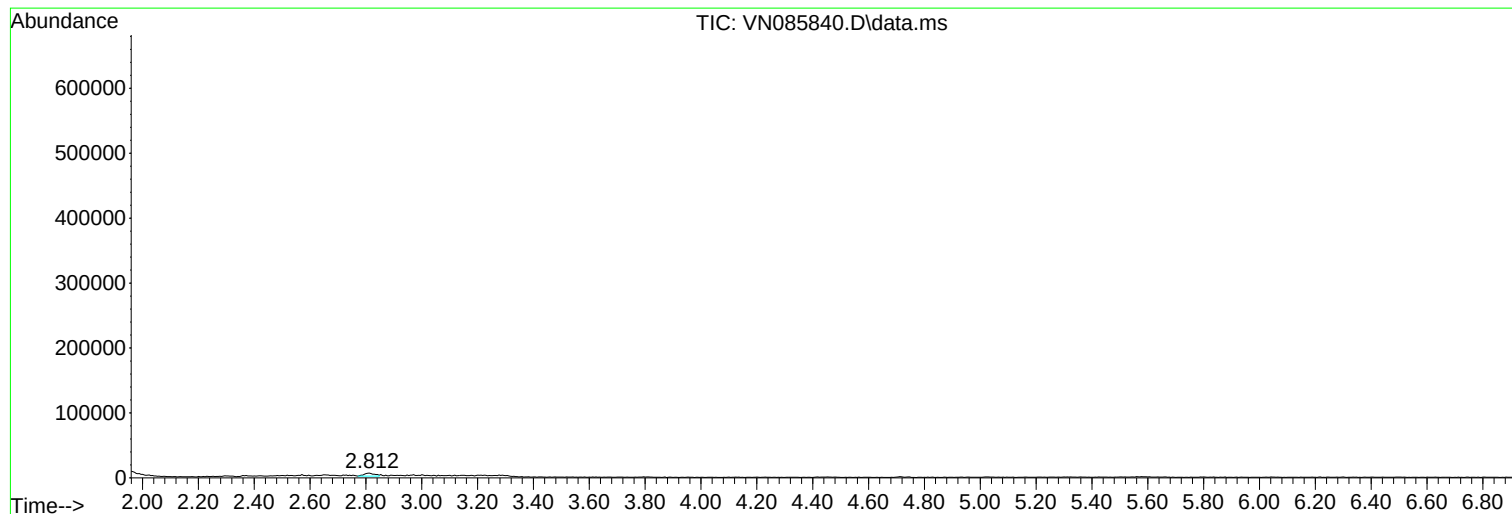
Sum of corrected areas: 6363446

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085840.D
Acq On : 24 Feb 2025 16:26
Operator : JC\MD
Sample : Q1405-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-26-021825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085840.D
Acq On : 24 Feb 2025 16:26
Operator : JC\MD
Sample : Q1405-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-26-021825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085840.D
Acq On : 24 Feb 2025 16:26
Operator : JC\MD
Sample : Q1405-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-26-021825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/13/25
Project:	REAC Commodore			Date Received:	02/21/25
Client Sample ID:	MW-11R-021325			SDG No.:	Q1405
Lab Sample ID:	Q1405-08			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085841.D	1		02/24/25 16:50	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2.00		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.10		0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	5.60		0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	UQ	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	6.40		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	UQ	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	TechLaw Consultants, Inc		Date Collected:	02/13/25	
Project:	REAC Commodore		Date Received:	02/21/25	
Client Sample ID:	MW-11R-021325		SDG No.:	Q1405	
Lab Sample ID:	Q1405-08		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085841.D	1		02/24/25 16:50	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	UQ	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	6.30		0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	UQ	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.7		74 - 125	121%	SPK: 50
1868-53-7	Dibromofluoromethane	55.0		75 - 124	110%	SPK: 50
2037-26-5	Toluene-d8	49.7		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.1		77 - 121	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	214000	8.224			
540-36-3	1,4-Difluorobenzene	408000	9.1			
3114-55-4	Chlorobenzene-d5	365000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	143000	13.788			

Report of Analysis

Client:	TechLaw Consultants, Inc		Date Collected:	02/13/25	
Project:	REAC Commodore		Date Received:	02/21/25	
Client Sample ID:	MW-11R-021325		SDG No.:	Q1405	
Lab Sample ID:	Q1405-08		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085841.D	1		02/24/25 16:50	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022425\
 Data File : VN085841.D
 Acq On : 24 Feb 2025 16:50
 Operator : JC\MD
 Sample : Q1405-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11R-021325

Quant Time: Feb 25 01:57:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

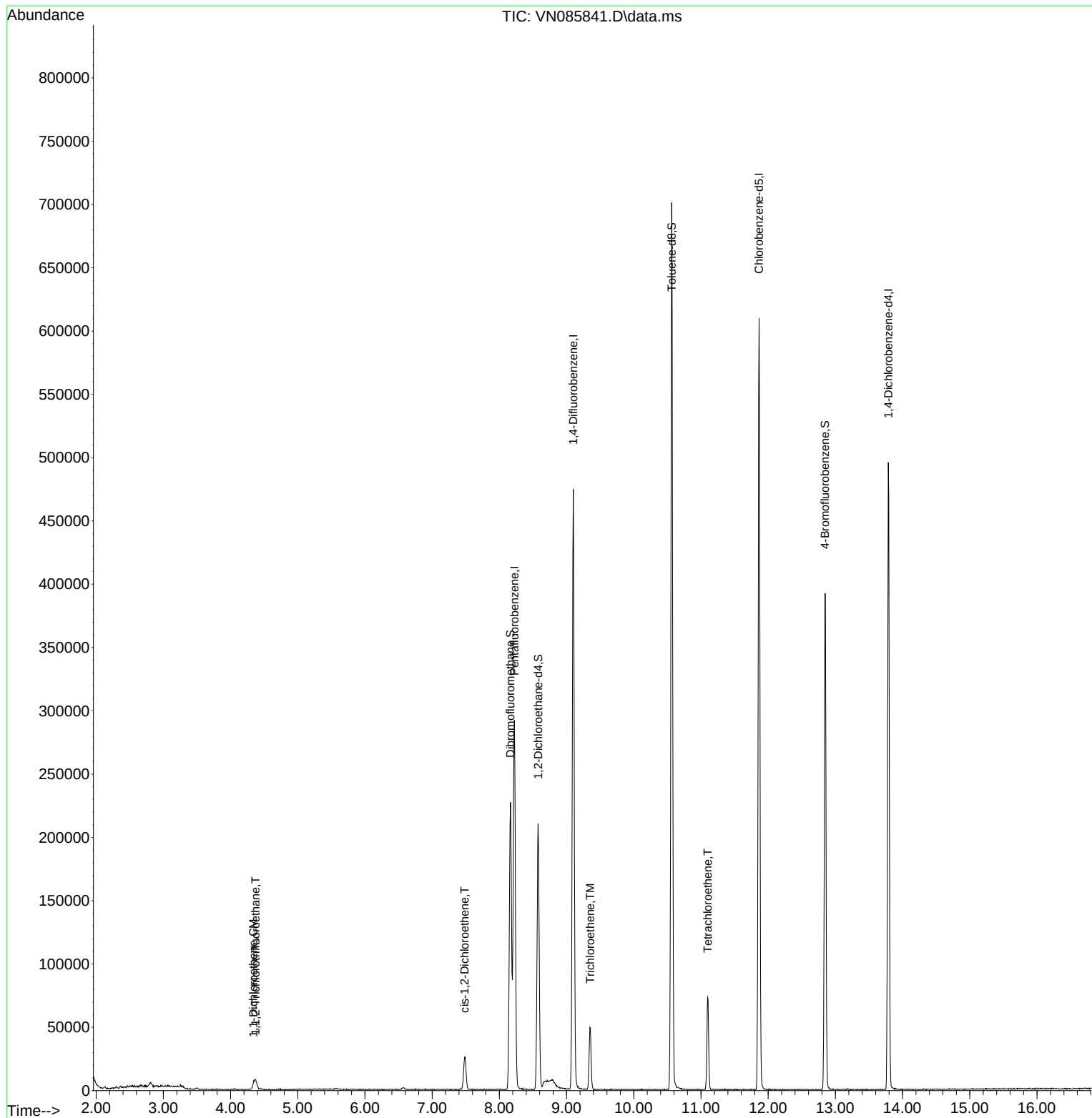
Internal Standards						
1) Pentafluorobenzene	8.224	168	213669	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	408077	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	364577	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143066	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	168195	60.717	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 121.440%			
35) Dibromofluoromethane	8.165	113	146962	55.037	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.080%			
50) Toluene-d8	10.565	98	482530	49.667	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.340%			
62) 4-Bromofluorobenzene	12.847	95	141088	44.077	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 88.160%			
Target Compounds						
						Qvalue
9) 1,1,2-Trichlorotrifluo...	4.371	101	5248	2.031	ug/l	97
12) 1,1-Dichloroethene	4.342	96	2618	1.117	ug/l	94
27) cis-1,2-Dichloroethene	7.483	96	16462	5.627	ug/l	89
44) Trichloroethene	9.353	130	19090	6.419	ug/l	96
64) Tetrachloroethene	11.100	164	17752	6.285	ug/l	92

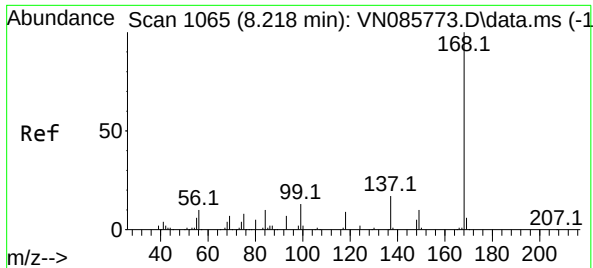
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085841.D
Acq On : 24 Feb 2025 16:50
Operator : JC\MD
Sample : Q1405-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-11R-021325

Quant Time: Feb 25 01:57:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

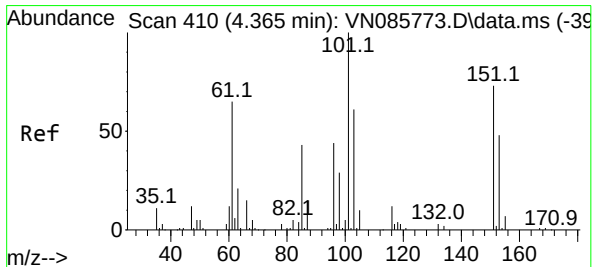
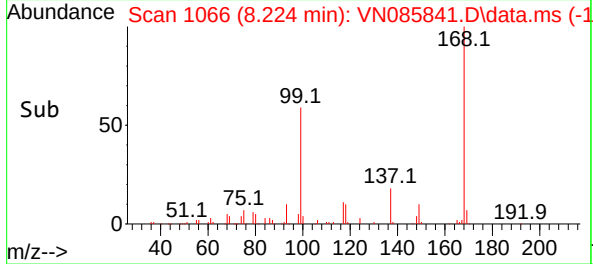
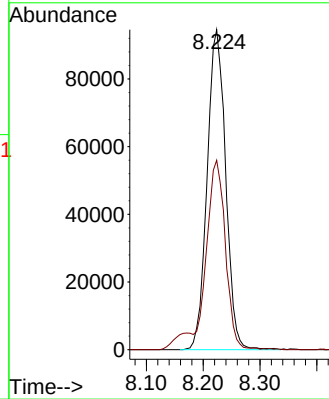
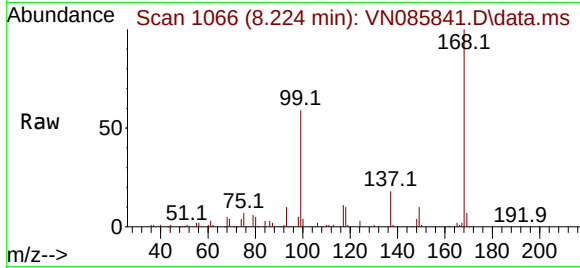




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085841.D
Acq: 24 Feb 2025 16:50

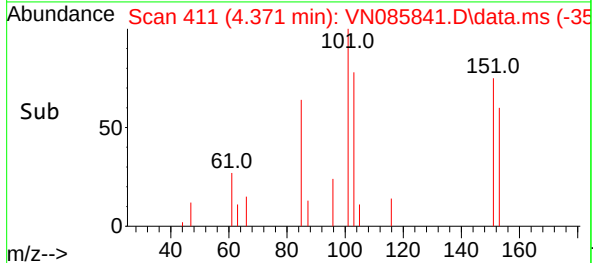
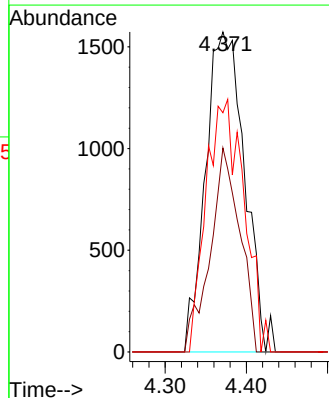
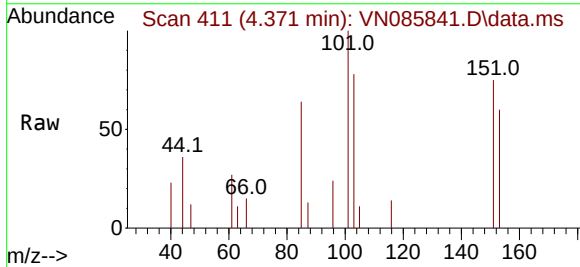
Instrument :
MSVOA_N
ClientSampleId :
MW-11R-021325

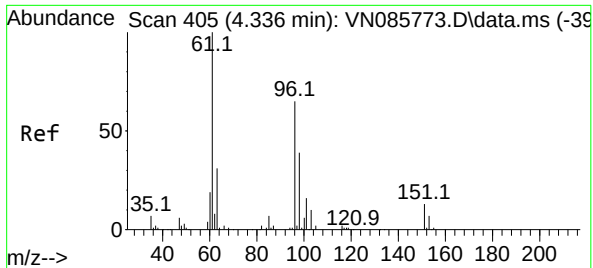
Tgt Ion:168 Resp: 213669
Ion Ratio Lower Upper
168 100
99 59.0 47.9 71.9



#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.031 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN085841.D
Acq: 24 Feb 2025 16:50

Tgt Ion:101 Resp: 5248
Ion Ratio Lower Upper
101 100
85 48.8 35.7 53.5
151 76.6 61.4 92.2

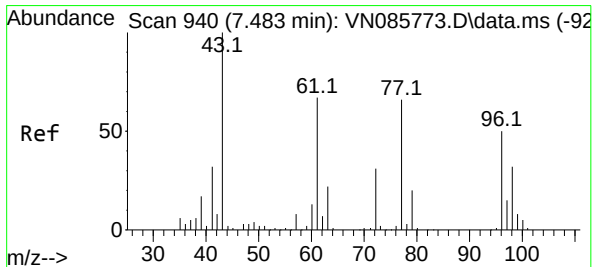
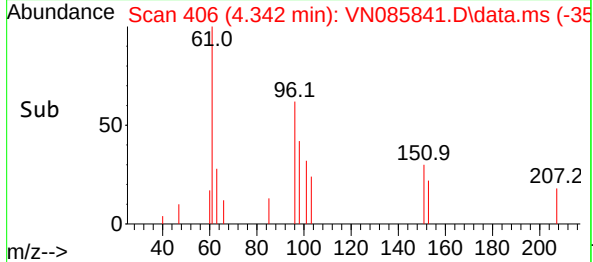
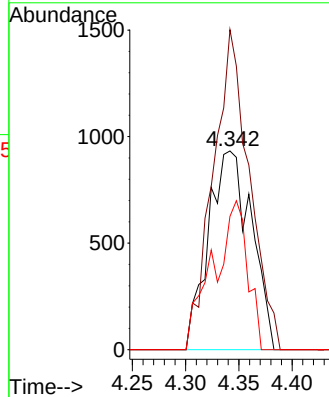
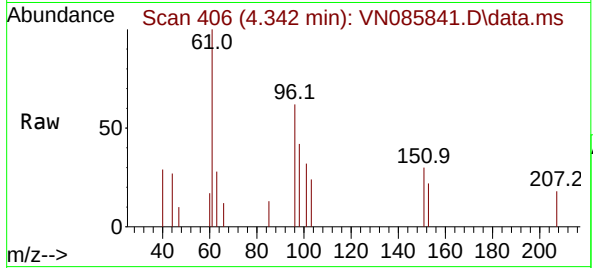




#12
1,1-Dichloroethene
Concen: 1.117 ug/l
RT: 4.342 min Scan# 405
Delta R.T. 0.006 min
Lab File: VN085841.D
Acq: 24 Feb 2025 16:50

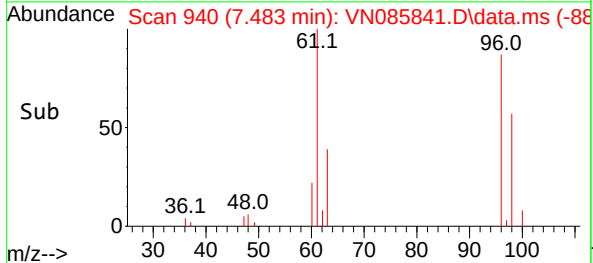
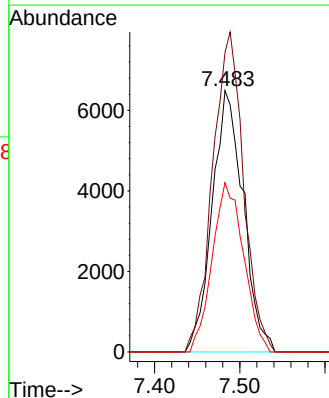
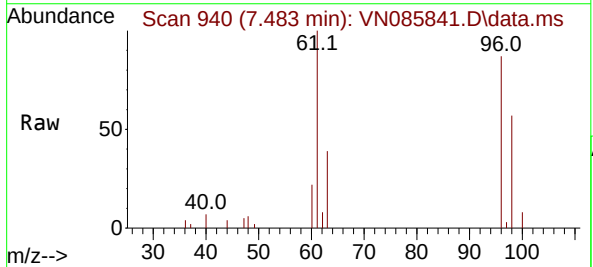
Instrument :
MSVOA_N
ClientSampleId :
MW-11R-021325

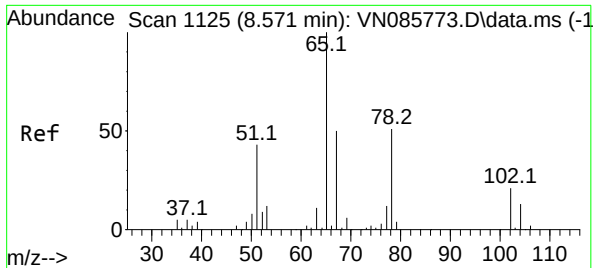
Tgt Ion:	96	Resp:	2618
Ion	Ratio	Lower	Upper
96	100		
61	161.0	123.3	184.9
98	67.1	48.6	72.8



#27
cis-1,2-Dichloroethene
Concen: 5.627 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085841.D
Acq: 24 Feb 2025 16:50

Tgt Ion:	96	Resp:	16462
Ion	Ratio	Lower	Upper
96	100		
61	121.5	0.0	280.6
98	65.3	0.0	128.6





#33

1,2-Dichloroethane-d4

Concen: 60.717 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085841.D

Acq: 24 Feb 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

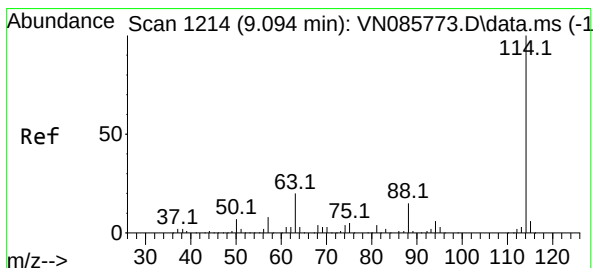
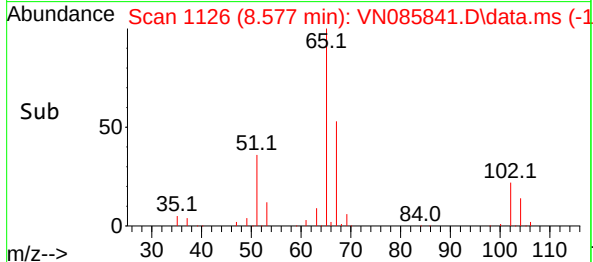
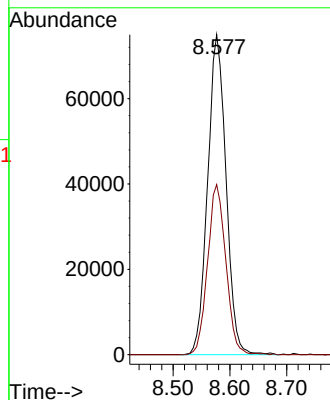
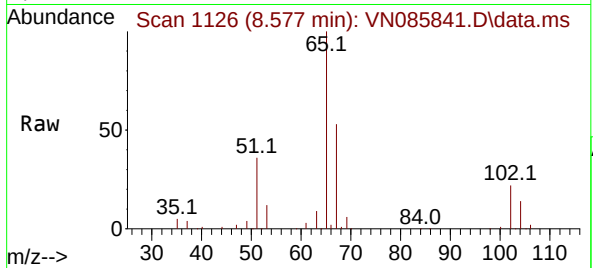
MW-11R-021325

Tgt Ion: 65 Resp: 168195

Ion Ratio Lower Upper

65 100

67 52.9 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085841.D

Acq: 24 Feb 2025 16:50

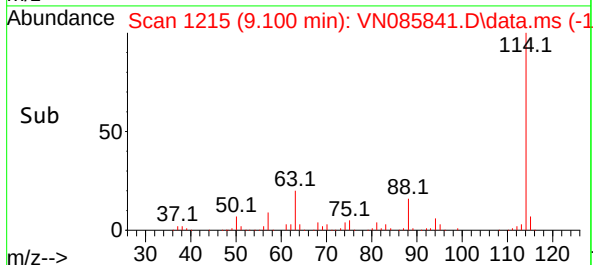
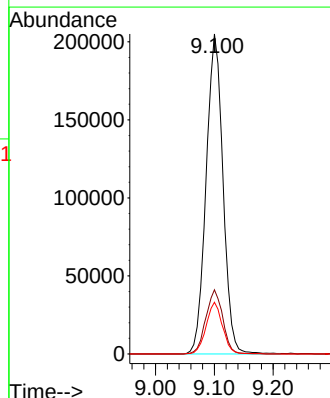
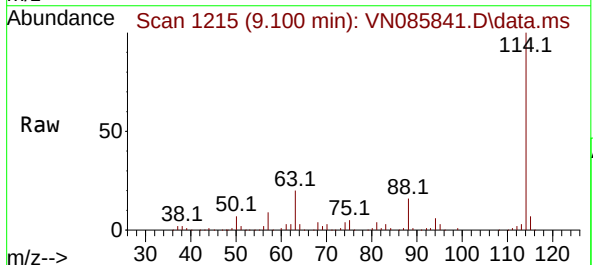
Tgt Ion: 114 Resp: 408077

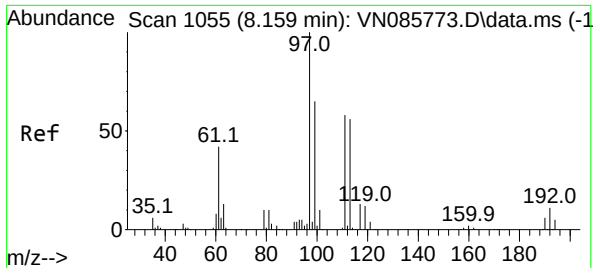
Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.2

88 16.2 0.0 30.0





#35

Dibromofluoromethane

Concen: 55.037 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085841.D

Acq: 24 Feb 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

MW-11R-021325

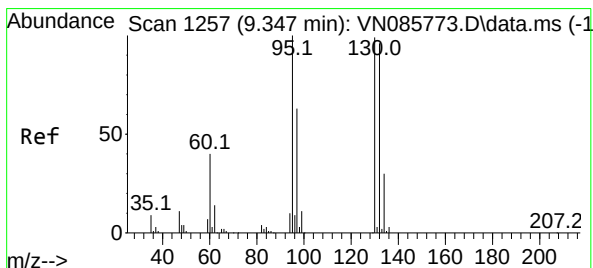
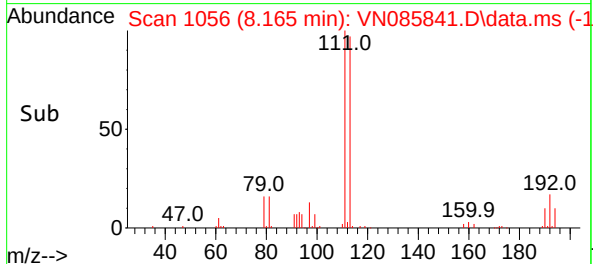
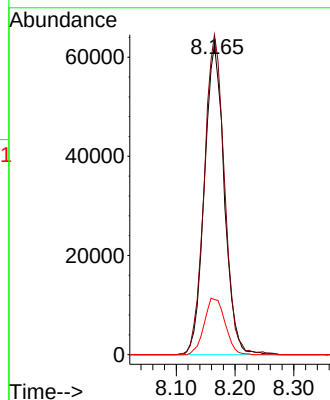
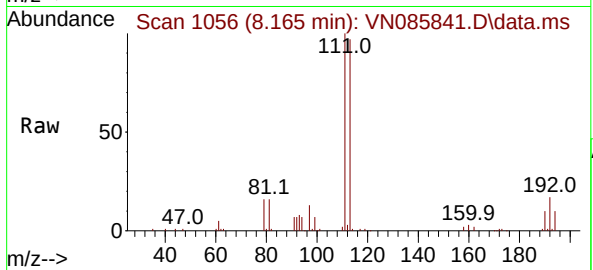
Tgt Ion:113 Resp: 146962

Ion Ratio Lower Upper

113 100

111 104.8 82.2 123.4

192 19.1 14.7 22.1



#44

Trichloroethene

Concen: 6.419 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.006 min

Lab File: VN085841.D

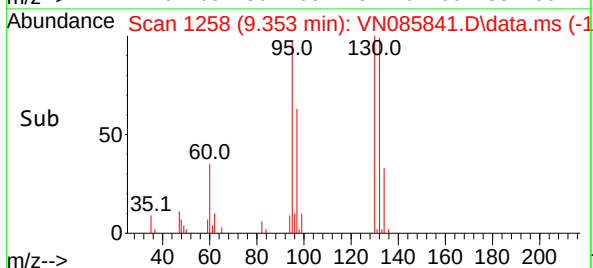
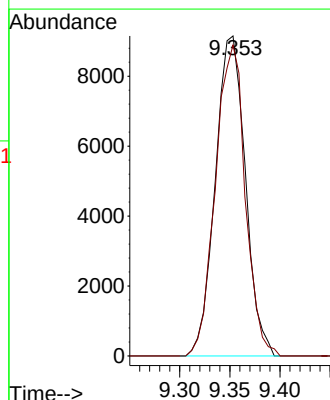
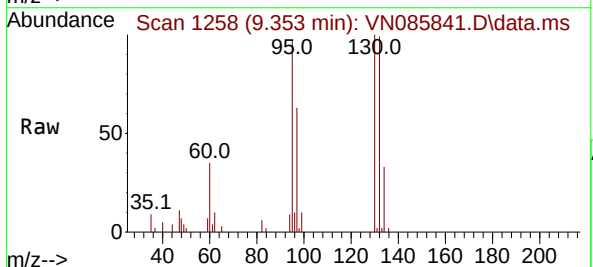
Acq: 24 Feb 2025 16:50

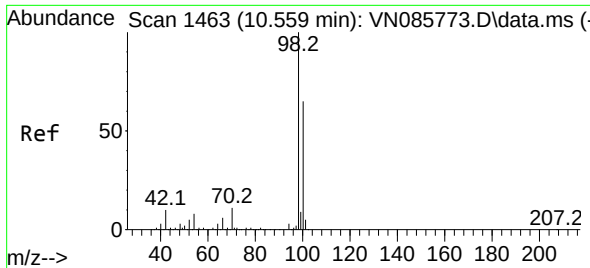
Tgt Ion:130 Resp: 19090

Ion Ratio Lower Upper

130 100

95 97.1 0.0 202.6

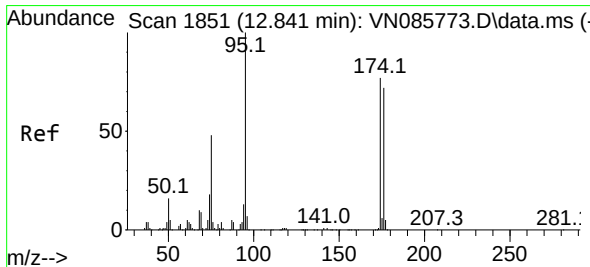
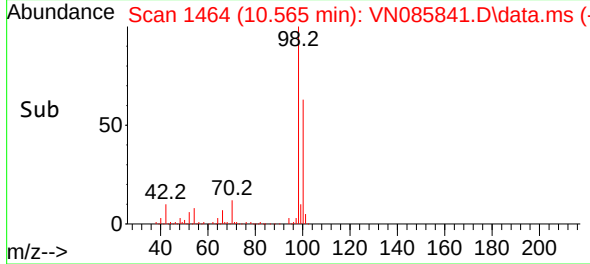
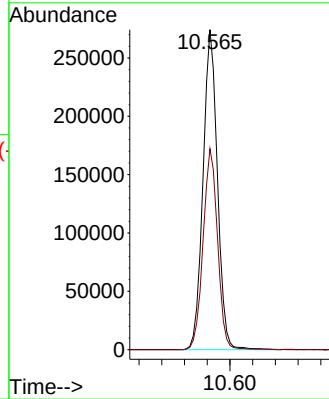
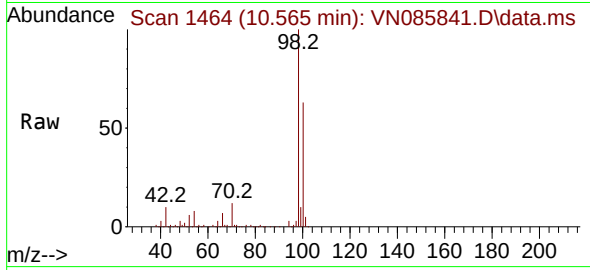




#50
Toluene-d8
Concen: 49.667 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085841.D
Acq: 24 Feb 2025 16:50

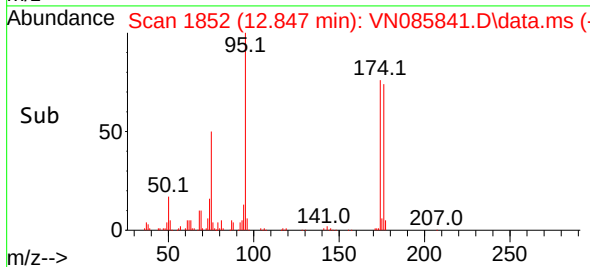
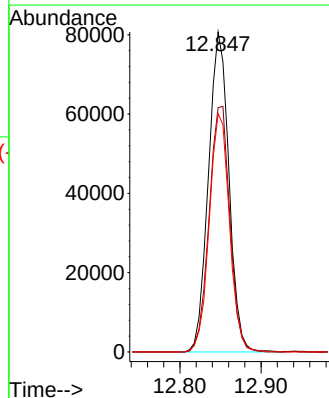
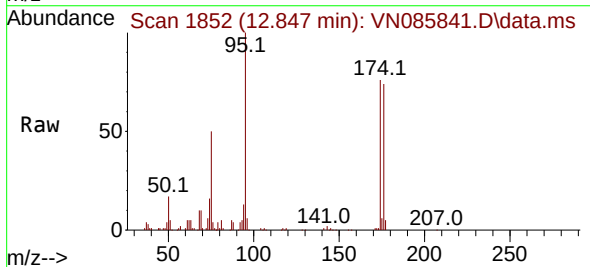
Instrument :
MSVOA_N
ClientSampleId :
MW-11R-021325

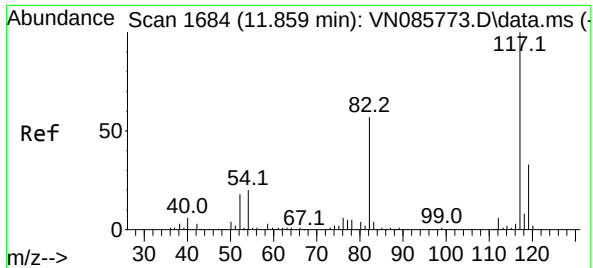
Tgt Ion: 98 Resp: 482530
Ion Ratio Lower Upper
98 100
100 63.0 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 44.077 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085841.D
Acq: 24 Feb 2025 16:50

Tgt Ion: 95 Resp: 141088
Ion Ratio Lower Upper
95 100
174 78.2 0.0 152.4
176 73.5 0.0 146.6

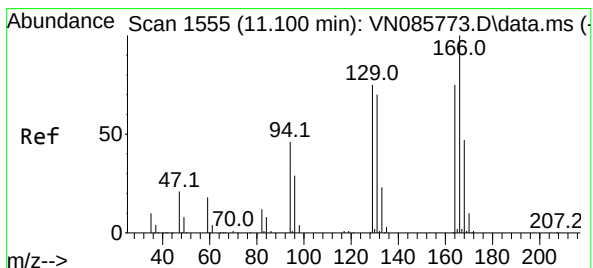
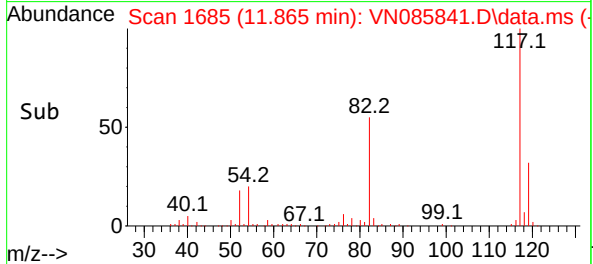
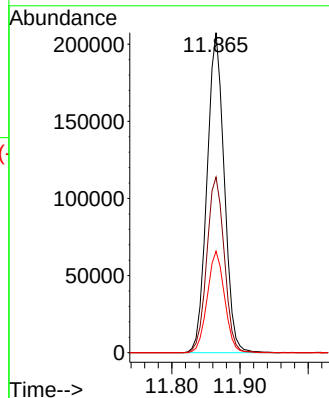
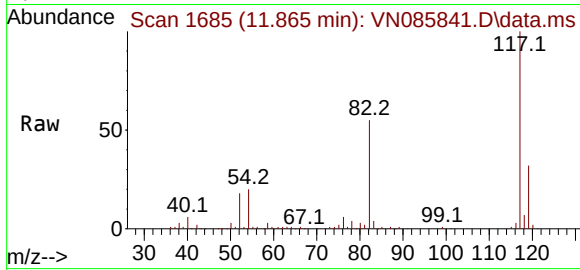




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN085841.D
Acq: 24 Feb 2025 16:50

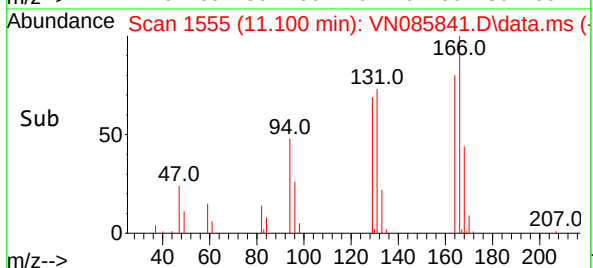
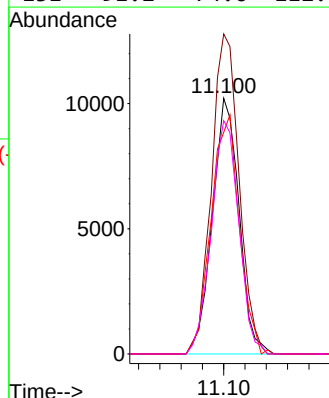
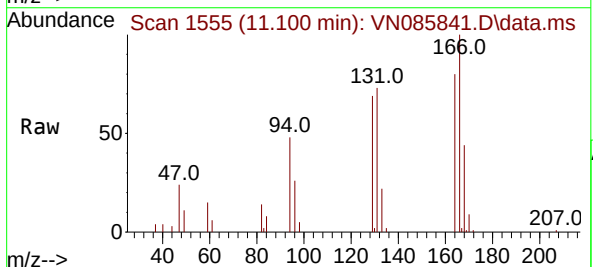
Instrument :
MSVOA_N
ClientSampleId :
MW-11R-021325

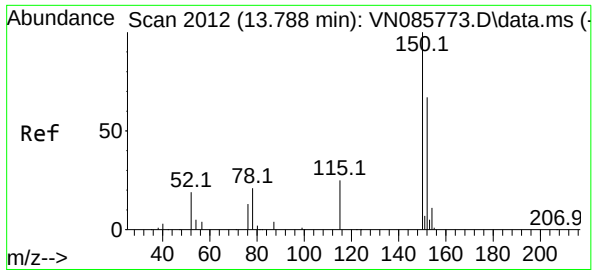
Tgt Ion:117 Resp: 364577
Ion Ratio Lower Upper
117 100
82 54.8 45.7 68.5
119 31.7 26.2 39.2



#64
Tetrachloroethene
Concen: 6.285 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085841.D
Acq: 24 Feb 2025 16:50

Tgt Ion:164 Resp: 17752
Ion Ratio Lower Upper
164 100
166 125.2 107.2 160.8
129 86.7 80.7 121.1
131 91.2 74.6 112.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN085841.D

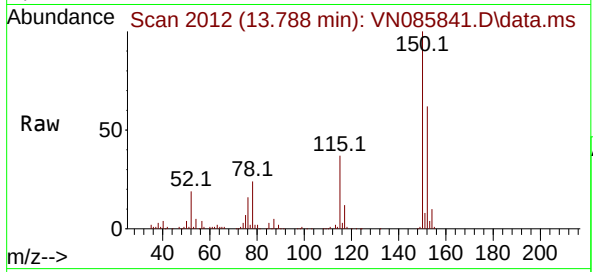
Acq: 24 Feb 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

MW-11R-021325



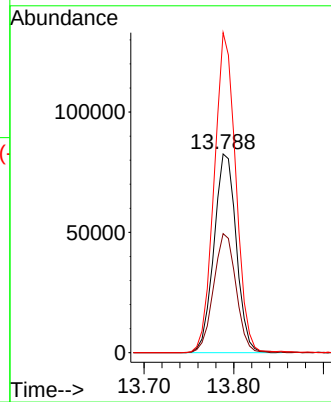
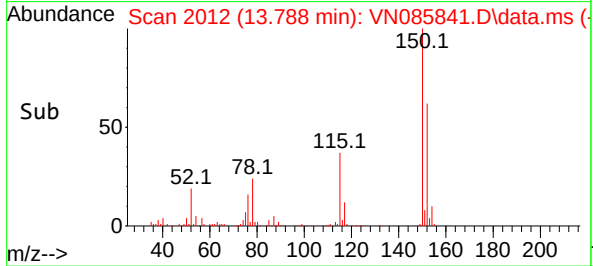
Tgt Ion:152 Resp: 143066

Ion Ratio Lower Upper

152 100

115 60.2 30.4 91.3

150 155.9 0.0 345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085841.D
 Acq On : 24 Feb 2025 16:50
 Operator : JC\MD
 Sample : Q1405-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11R-021325

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Title : SW846 8260

Signal : TIC: VN085841.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.365	408	410	419	rVB5	7700	17823	1.44%	0.264%
2	7.489	931	941	952	rVB	25781	65625	5.31%	0.971%
3	8.165	1044	1056	1061	rBV	227014	545587	44.18%	8.074%
4	8.224	1061	1066	1076	rVB	290106	640431	51.86%	9.477%
5	8.577	1115	1126	1136	rBV2	210137	467134	37.82%	6.913%
6	9.100	1205	1215	1226	rBV	473836	944925	76.51%	13.983%
7	9.347	1250	1257	1268	rVB2	49371	102198	8.28%	1.512%
8	10.565	1456	1464	1476	rBV	700526	1235016	100.00%	18.276%
9	11.100	1548	1555	1563	rVB2	72775	133816	10.84%	1.980%
10	11.865	1676	1685	1700	rBV	609469	1084809	87.84%	16.053%
11	12.847	1845	1852	1864	rVB	391841	675269	54.68%	9.993%
12	13.788	2005	2012	2025	rBV	495238	844865	68.41%	12.503%

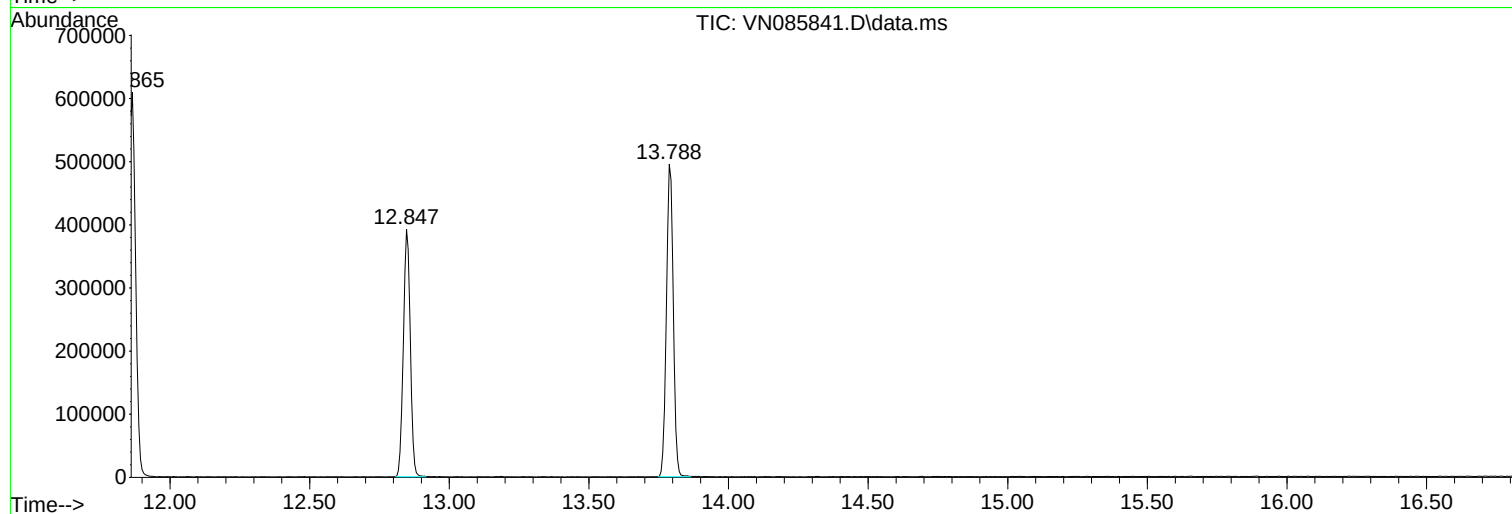
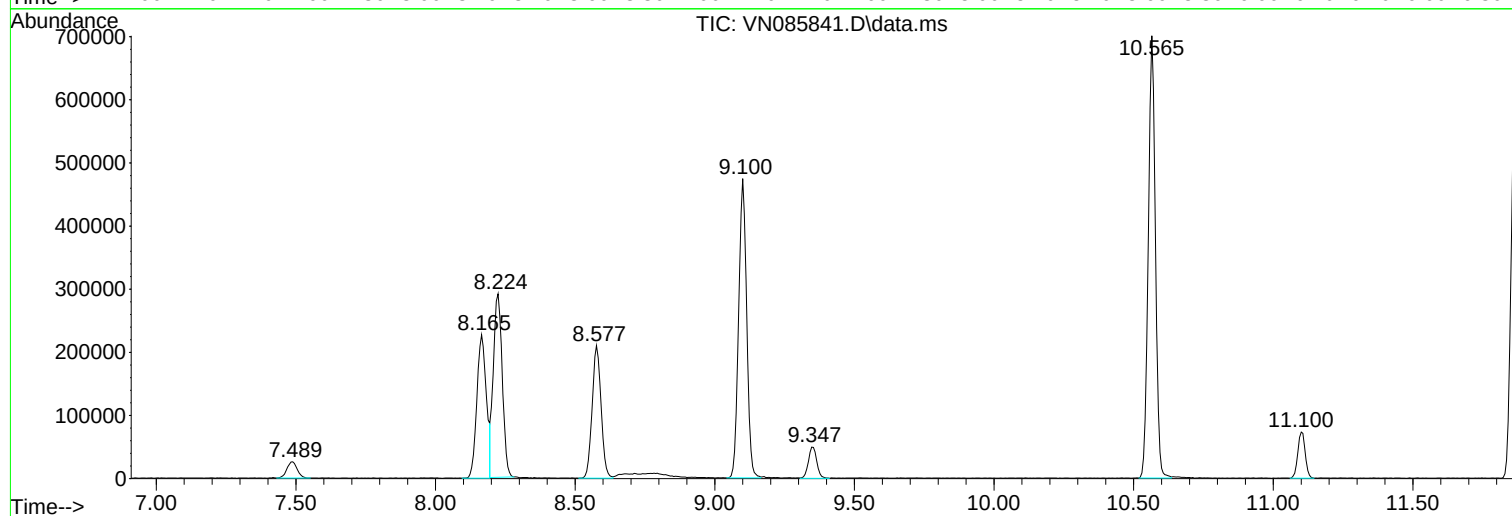
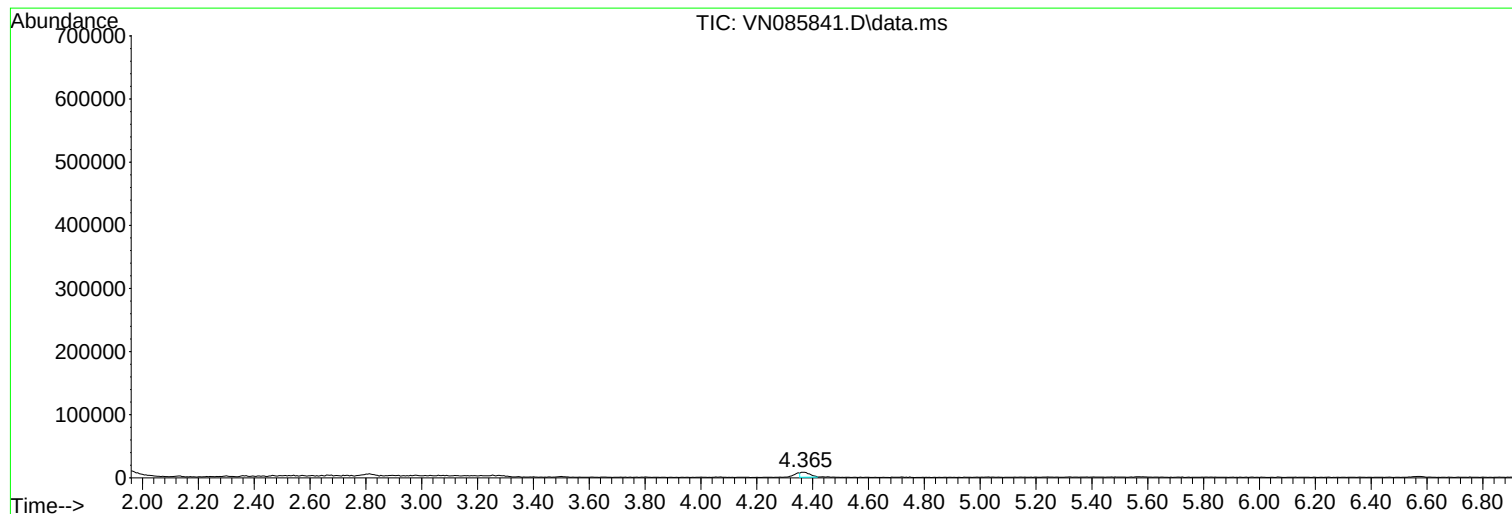
Sum of corrected areas: 6757498

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085841.D
Acq On : 24 Feb 2025 16:50
Operator : JC\MD
Sample : Q1405-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-11R-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085841.D
Acq On : 24 Feb 2025 16:50
Operator : JC\MD
Sample : Q1405-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-11R-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085841.D
Acq On : 24 Feb 2025 16:50
Operator : JC\MD
Sample : Q1405-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-11R-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/19/25
Project:	REAC Commodore			Date Received:	02/21/25
Client Sample ID:	MW-13-021925			SDG No.:	Q1405
Lab Sample ID:	Q1405-09			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085842.D	1		02/24/25 17:14	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	2.80		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.78	J	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	UQ	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	1.40		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	UQ	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/19/25	
Project:	REAC Commodore			Date Received:	02/21/25	
Client Sample ID:	MW-13-021925			SDG No.:	Q1405	
Lab Sample ID:	Q1405-09			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085842.D	1		02/24/25 17:14	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	UQ	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	2.30		0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	UQ	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	61.5		74 - 125	123%	SPK: 50
1868-53-7	Dibromofluoromethane	55.7		75 - 124	111%	SPK: 50
2037-26-5	Toluene-d8	49.9		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.6		77 - 121	83%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	206000	8.224			
540-36-3	1,4-Difluorobenzene	391000	9.1			
3114-55-4	Chlorobenzene-d5	337000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.788			

Report of Analysis

Client:	TechLaw Consultants, Inc		Date Collected:	02/19/25	
Project:	REAC Commodore		Date Received:	02/21/25	
Client Sample ID:	MW-13-021925		SDG No.:	Q1405	
Lab Sample ID:	Q1405-09		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085842.D	1		02/24/25 17:14	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022425\
 Data File : VN085842.D
 Acq On : 24 Feb 2025 17:14
 Operator : JC\MD
 Sample : Q1405-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13-021925

Quant Time: Feb 25 01:57:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

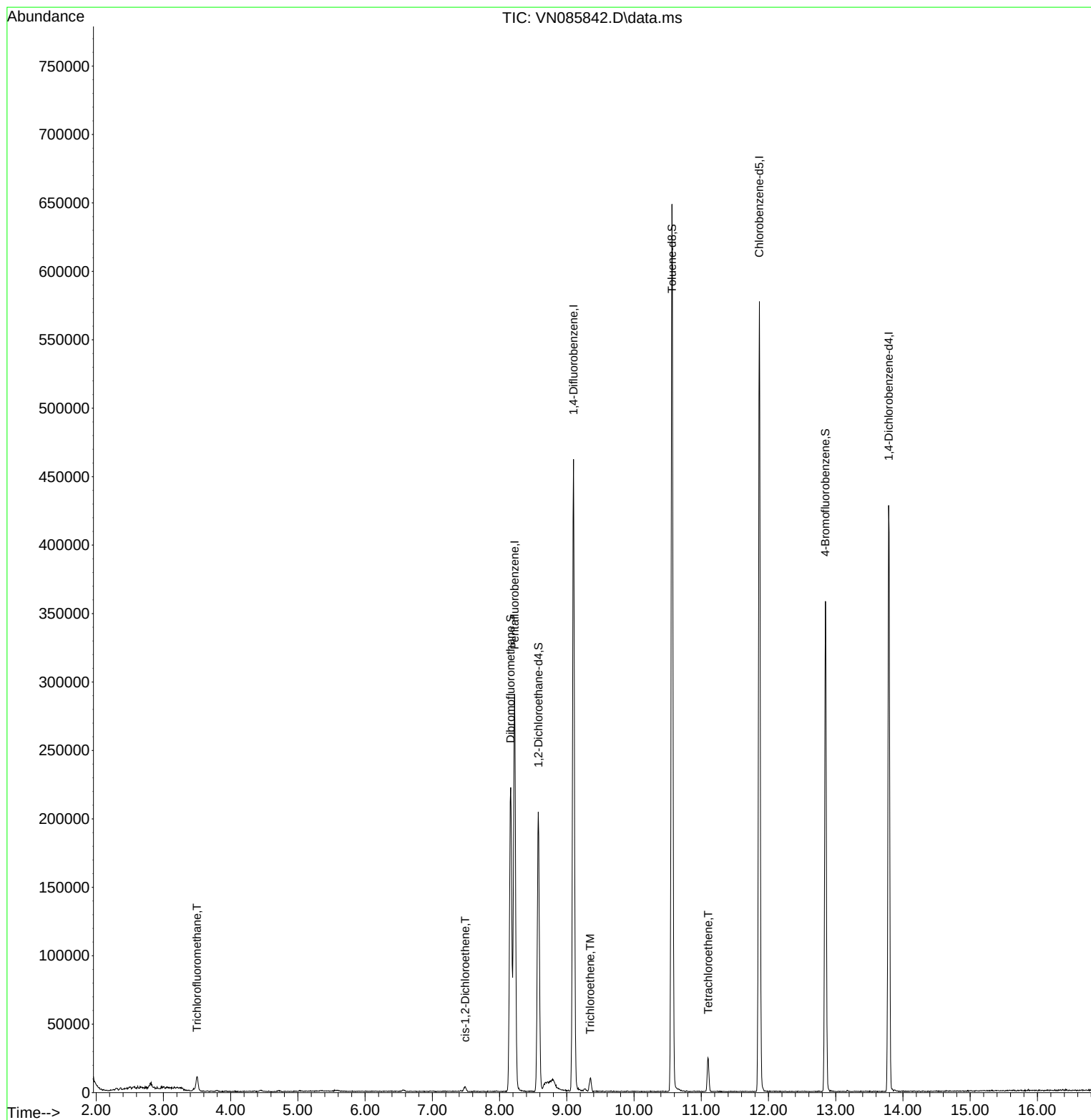
Internal Standards						
1) Pentafluorobenzene	8.224	168	206228	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	390930	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	337160	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	124231	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	164335	61.464	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 122.920%			
35) Dibromofluoromethane	8.165	113	142571	55.734	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.460%			
50) Toluene-d8	10.565	98	464497	49.908	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.820%			
62) 4-Bromofluorobenzene	12.847	95	127421	41.553	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 83.100%			
Target Compounds						Qvalue
7) Trichlorofluoromethane	3.500	101	12095	2.803	ug/l	98
27) cis-1,2-Dichloroethene	7.488	96	2200	0.779	ug/l	86
44) Trichloroethene	9.347	130	4006	1.406	ug/l	95
64) Tetrachloroethene	11.106	164	6033	2.310	ug/l	95

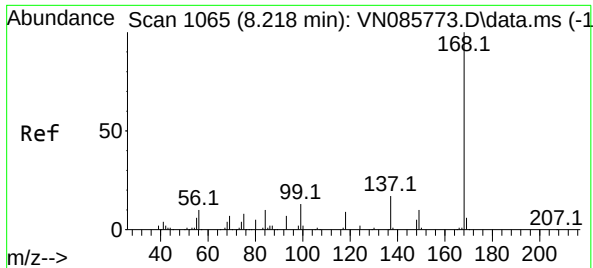
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085842.D
Acq On : 24 Feb 2025 17:14
Operator : JC\MD
Sample : Q1405-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-13-021925

Quant Time: Feb 25 01:57:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN085842.D

Acq: 24 Feb 2025 17:14

Instrument :

MSVOA_N

ClientSampleId :

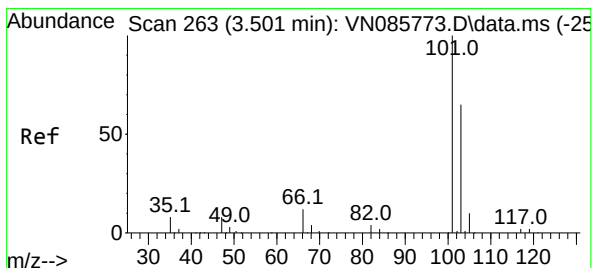
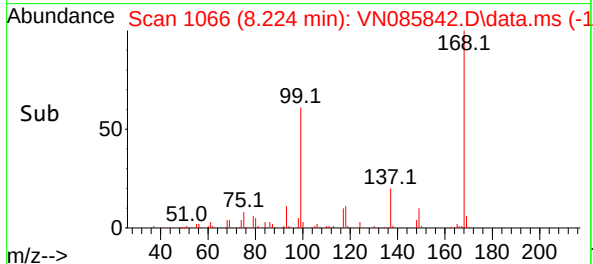
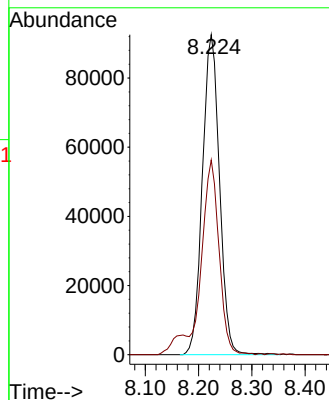
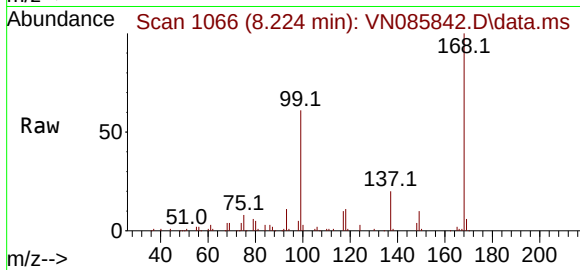
MW-13-021925

Tgt Ion:168 Resp: 206228

Ion Ratio Lower Upper

168 100

99 60.7 47.9 71.9



#7

Trichlorofluoromethane

Concen: 2.803 ug/l

RT: 3.500 min Scan# 263

Delta R.T. -0.000 min

Lab File: VN085842.D

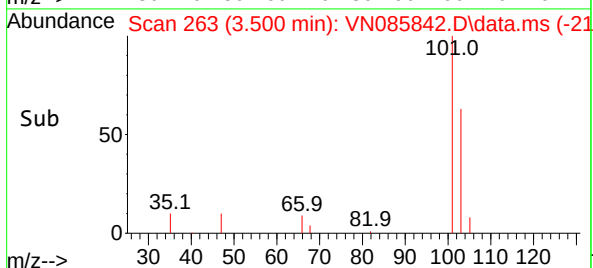
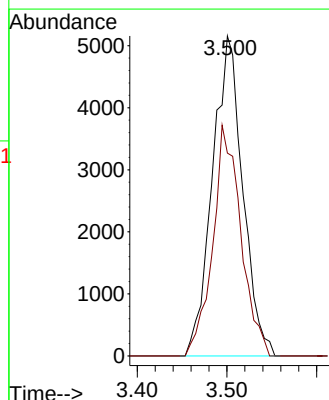
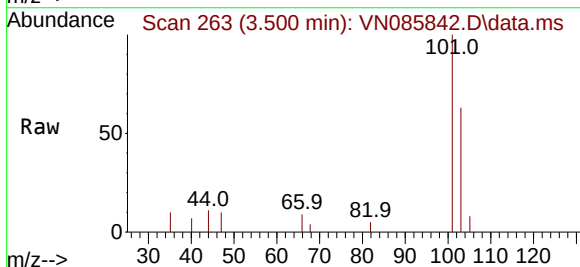
Acq: 24 Feb 2025 17:14

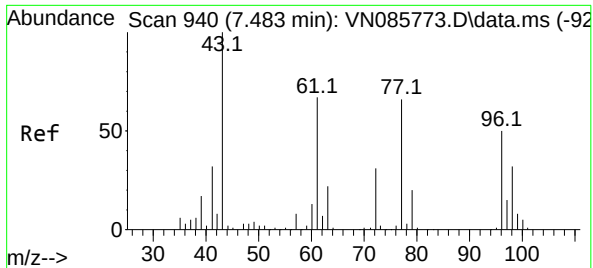
Tgt Ion:101 Resp: 12095

Ion Ratio Lower Upper

101 100

103 63.4 52.2 78.4





#27

cis-1,2-Dichloroethene

Concen: 0.779 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085842.D

Acq: 24 Feb 2025 17:14

Instrument :

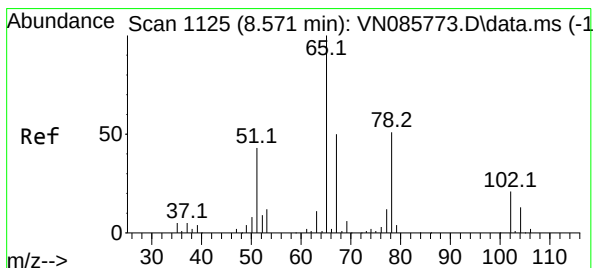
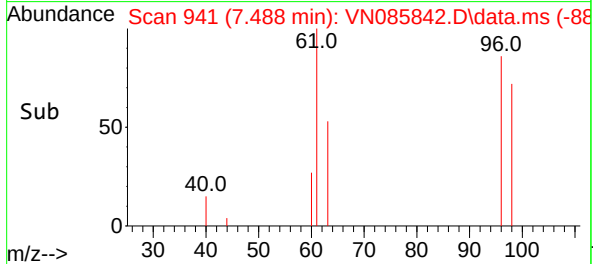
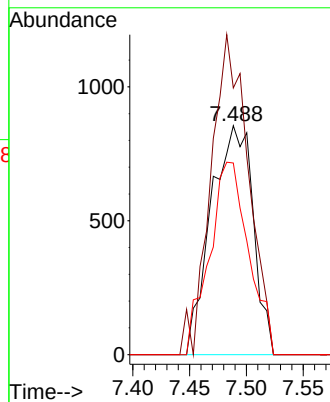
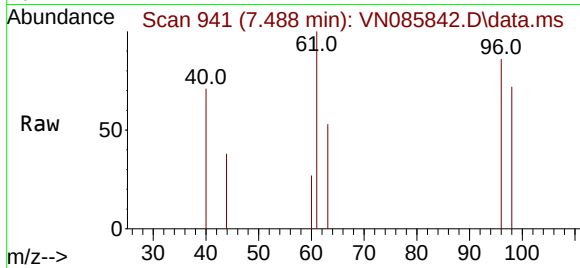
MSVOA_N

ClientSampleId :

MW-13-021925

Tgt Ion: 96 Resp: 2200

Ion	Ratio	Lower	Upper
96	100		
61	124.9	0.0	280.6
98	78.6	0.0	128.6



#33

1,2-Dichloroethane-d4

Concen: 61.464 ug/l

RT: 8.577 min Scan# 1126

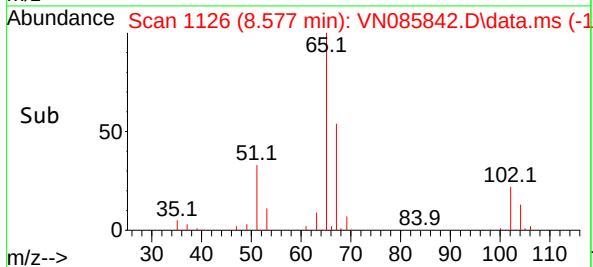
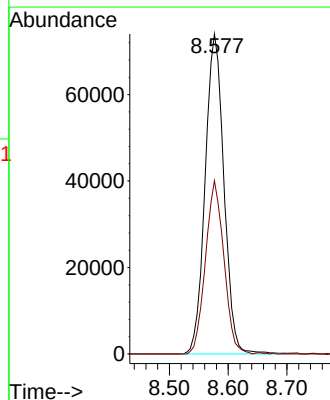
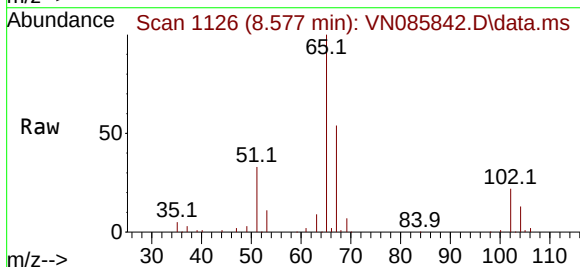
Delta R.T. 0.006 min

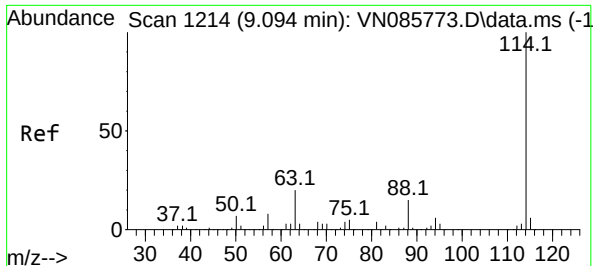
Lab File: VN085842.D

Acq: 24 Feb 2025 17:14

Tgt Ion: 65 Resp: 164335

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.2

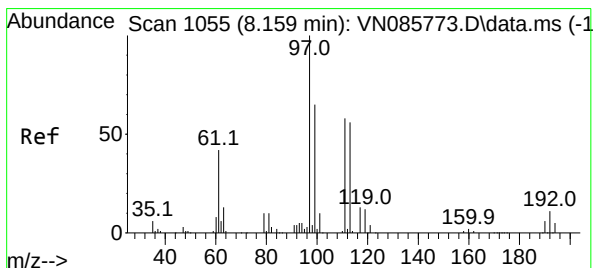
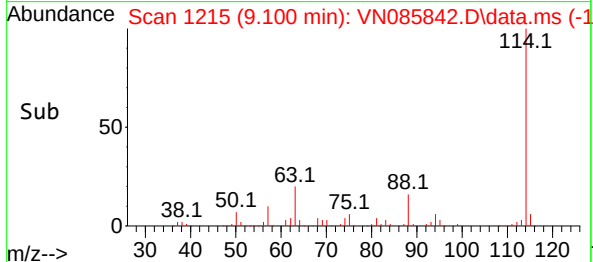
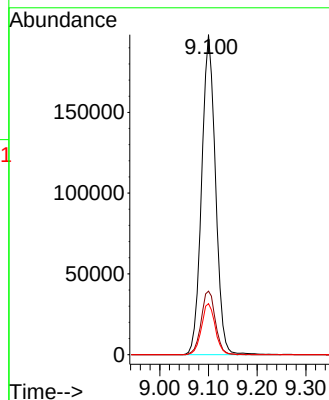
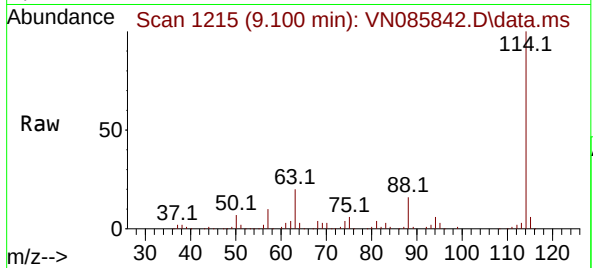




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085842.D
Acq: 24 Feb 2025 17:14

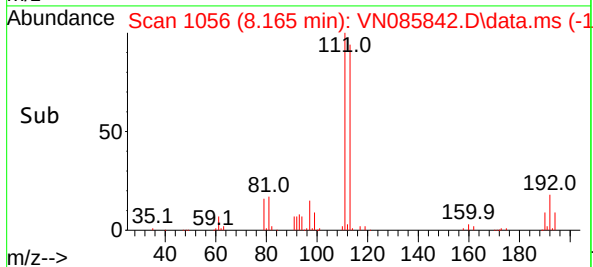
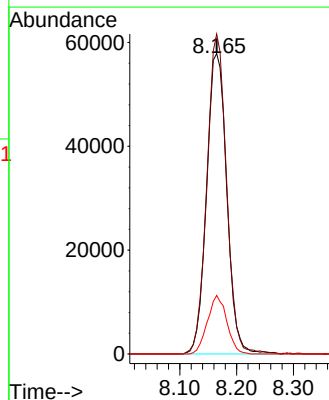
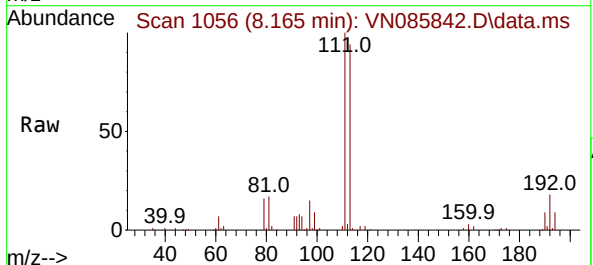
Instrument :
MSVOA_N
ClientSampleId :
MW-13-021925

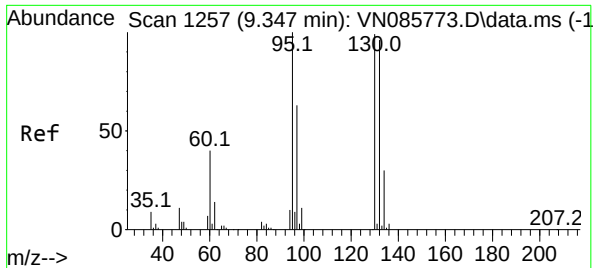
Tgt Ion:114 Resp: 390930
Ion Ratio Lower Upper
114 100
63 19.9 0.0 39.2
88 15.9 0.0 30.0



#35
Dibromofluoromethane
Concen: 55.734 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085842.D
Acq: 24 Feb 2025 17:14

Tgt Ion:113 Resp: 142571
Ion Ratio Lower Upper
113 100
111 103.6 82.2 123.4
192 18.7 14.7 22.1

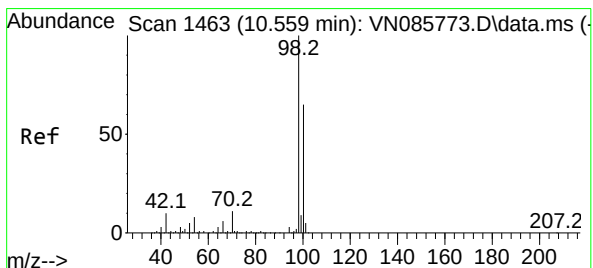
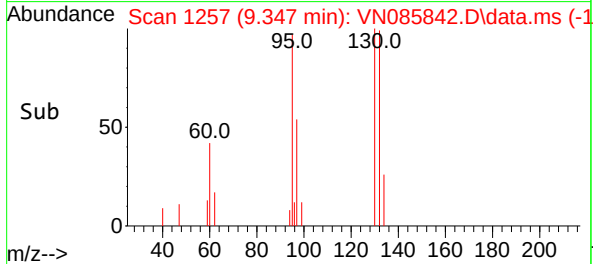
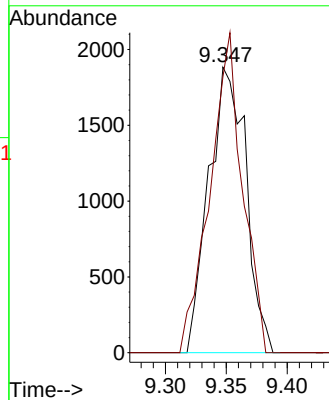
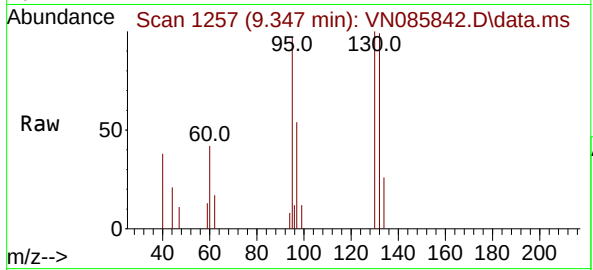




#44
Trichloroethene
Concen: 1.406 ug/l
RT: 9.347 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085842.D
Acq: 24 Feb 2025 17:14

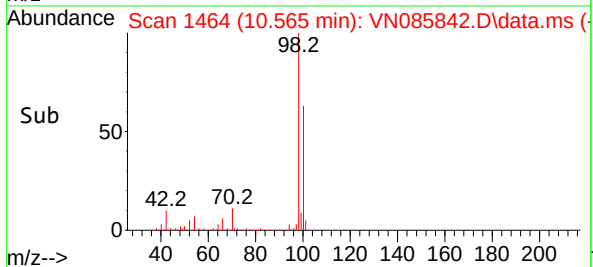
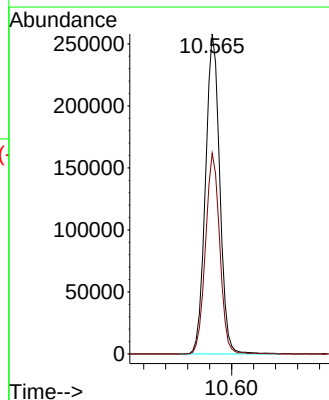
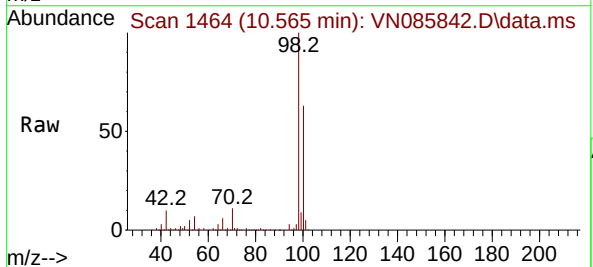
Instrument :
MSVOA_N
ClientSampleId :
MW-13-021925

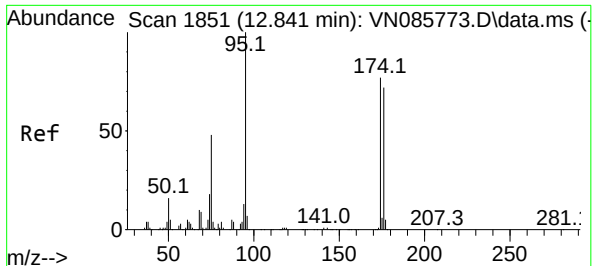
Tgt Ion:130 Resp: 4006
Ion Ratio Lower Upper
130 100
95 96.7 0.0 202.6



#50
Toluene-d8
Concen: 49.908 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085842.D
Acq: 24 Feb 2025 17:14

Tgt Ion: 98 Resp: 464497
Ion Ratio Lower Upper
98 100
100 62.6 52.1 78.1

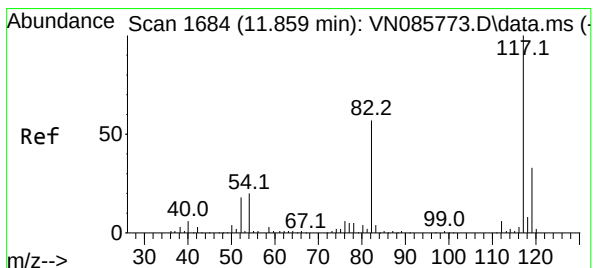
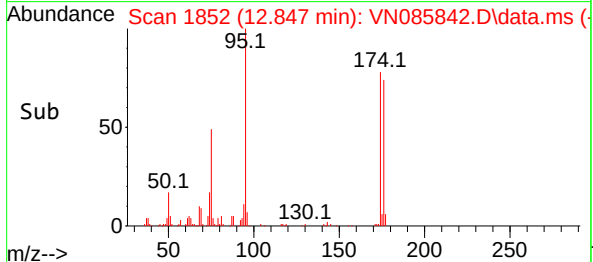
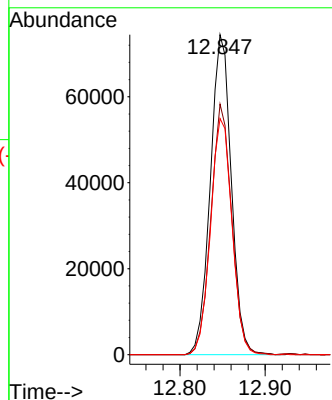
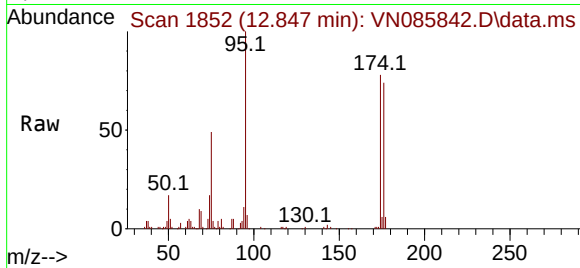




#62
4-Bromofluorobenzene
Concen: 41.553 ug/l
RT: 12.847 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VN085842.D
Acq: 24 Feb 2025 17:14

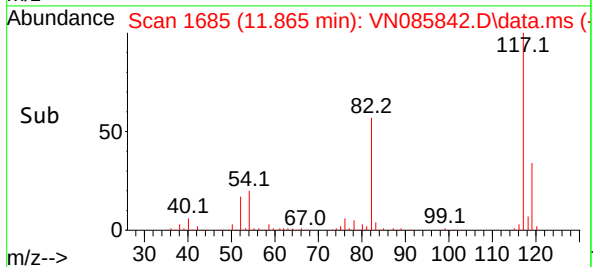
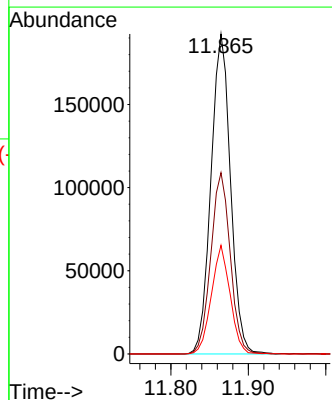
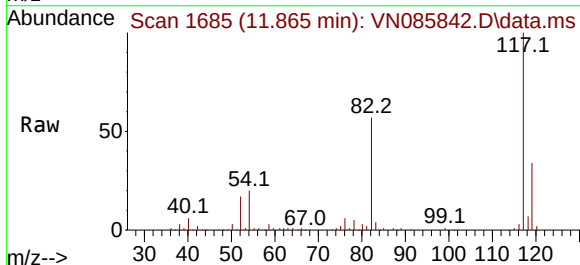
Instrument :
MSVOA_N
ClientSampleId :
MW-13-021925

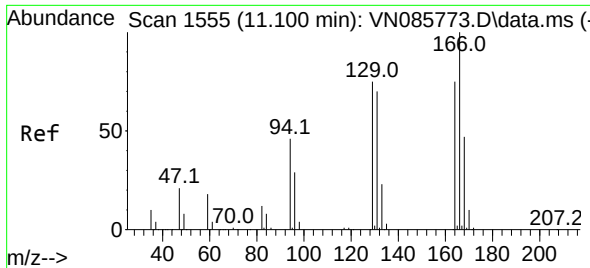
Tgt Ion	Ratio	Lower	Upper
95	100		
174	77.8	0.0	152.4
176	75.6	0.0	146.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085842.D
Acq: 24 Feb 2025 17:14

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.7	45.7	68.5
119	33.9	26.2	39.2

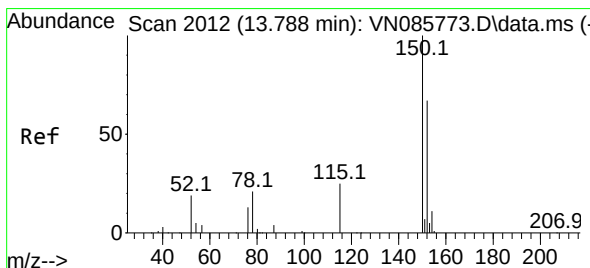
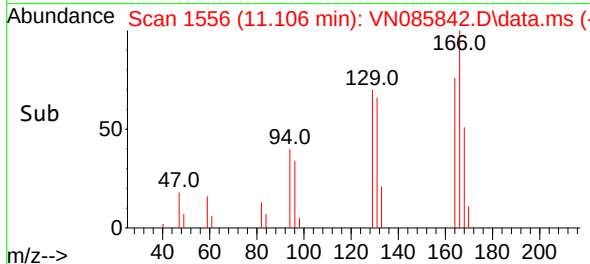
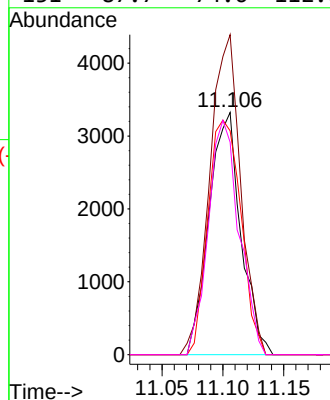
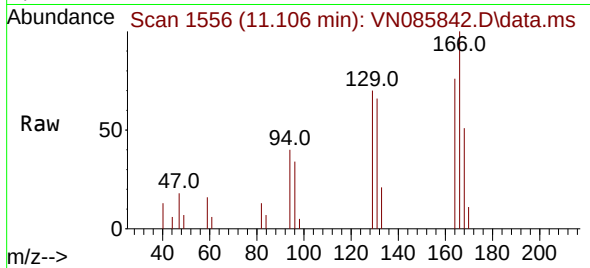




#64
Tetrachloroethene
Concen: 2.310 ug/l
RT: 11.106 min Scan# 1555
Delta R.T. 0.006 min
Lab File: VN085842.D
Acq: 24 Feb 2025 17:14

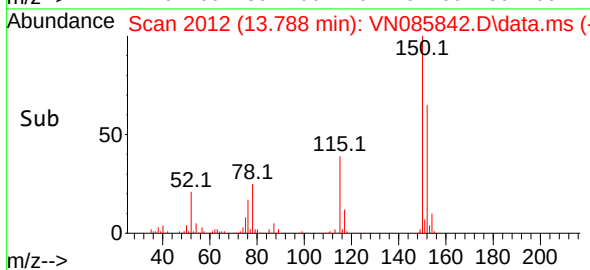
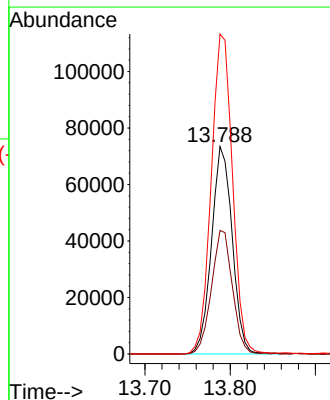
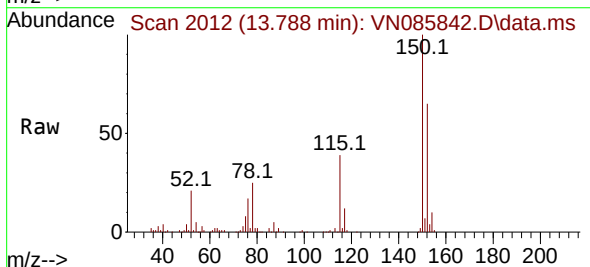
Instrument :
MSVOA_N
ClientSampleId :
MW-13-021925

Tgt Ion:164 Resp: 6033
Ion Ratio Lower Upper
164 100
166 132.1 107.2 160.8
129 92.4 80.7 121.1
131 87.7 74.6 112.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085842.D
Acq: 24 Feb 2025 17:14

Tgt Ion:152 Resp: 124231
Ion Ratio Lower Upper
152 100
115 60.2 30.4 91.3
150 158.5 0.0 345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085842.D
 Acq On : 24 Feb 2025 17:14
 Operator : JC\MD
 Sample : Q1405-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13-021925

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Title : SW846 8260

Signal : TIC: VN085842.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.500	255	263	273	rVB2	10649	26704	2.26%	0.434%
2	8.165	1045	1056	1061	rBV2	222363	545372	46.23%	8.862%
3	8.224	1061	1066	1076	rVB	288601	619883	52.54%	10.072%
4	8.577	1116	1126	1136	rBV	204352	452433	38.35%	7.352%
5	9.100	1206	1215	1225	rBV	461540	909060	77.05%	14.771%
6	9.353	1251	1258	1264	rVB2	10104	21034	1.78%	0.342%
7	10.565	1456	1464	1479	rBV	647906	1179772	100.00%	19.170%
8	11.100	1549	1555	1564	rVB3	24720	44925	3.81%	0.730%
9	11.865	1677	1685	1697	rBV	577128	1008207	85.46%	16.382%
10	12.847	1844	1852	1863	rBV	358158	612423	51.91%	9.951%
11	13.788	2005	2012	2020	rBV	428100	734433	62.25%	11.934%

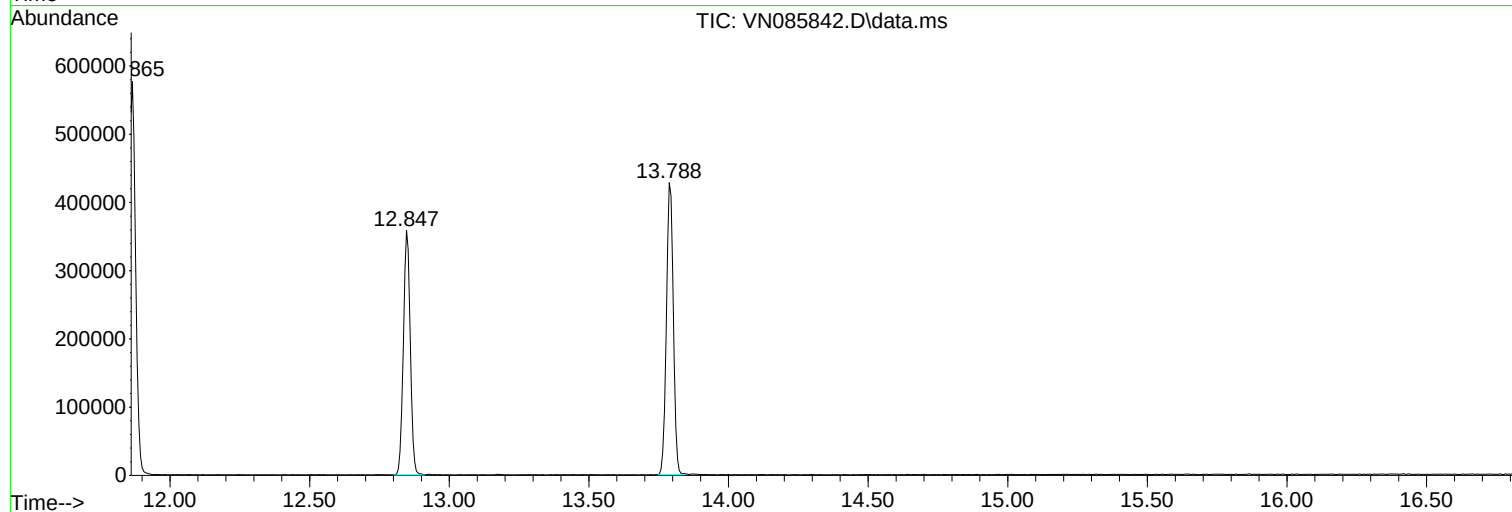
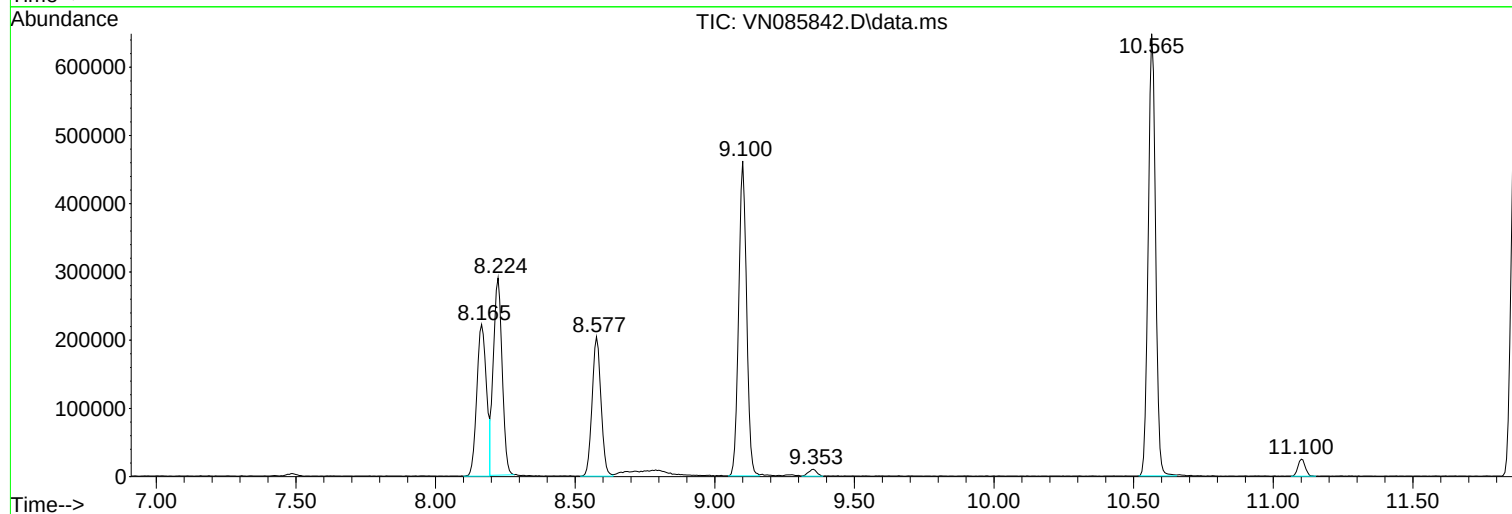
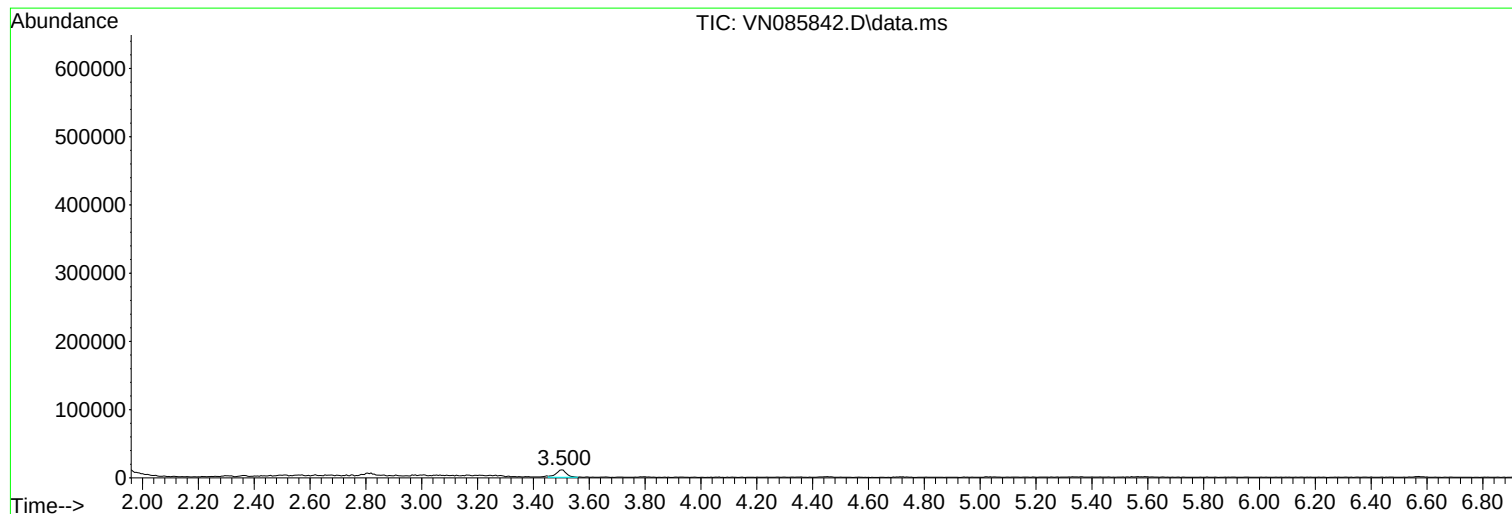
Sum of corrected areas: 6154246

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085842.D
Acq On : 24 Feb 2025 17:14
Operator : JC\MD
Sample : Q1405-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-13-021925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085842.D
Acq On : 24 Feb 2025 17:14
Operator : JC\MD
Sample : Q1405-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-13-021925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085842.D
Acq On : 24 Feb 2025 17:14
Operator : JC\MD
Sample : Q1405-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-13-021925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	TechLaw Consultants, Inc		Date Collected:	02/18/25	
Project:	REAC Commodore		Date Received:	02/21/25	
Client Sample ID:	MW-30S-021825		SDG No.:	Q1405	
Lab Sample ID:	Q1405-10		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085843.D	1		02/24/25 17:38	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.10		0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	4.00		0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	UQ	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	13.1		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	UQ	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/18/25	
Project:	REAC Commodore			Date Received:	02/21/25	
Client Sample ID:	MW-30S-021825			SDG No.:	Q1405	
Lab Sample ID:	Q1405-10			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085843.D	1		02/24/25 17:38	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	UQ	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	UQ	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	61.0		74 - 125	122%	SPK: 50
1868-53-7	Dibromofluoromethane	55.2		75 - 124	110%	SPK: 50
2037-26-5	Toluene-d8	49.4		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.5		77 - 121	85%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	209000	8.224			
540-36-3	1,4-Difluorobenzene	401000	9.1			
3114-55-4	Chlorobenzene-d5	350000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.794			

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	02/18/25
Project:	REAC Commodore	Date Received:	02/21/25
Client Sample ID:	MW-30S-021825	SDG No.:	Q1405
Lab Sample ID:	Q1405-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085843.D	1		02/24/25 17:38	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022425\
 Data File : VN085843.D
 Acq On : 24 Feb 2025 17:38
 Operator : JC\MD
 Sample : Q1405-10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-30S-021825

Quant Time: Feb 25 01:58:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

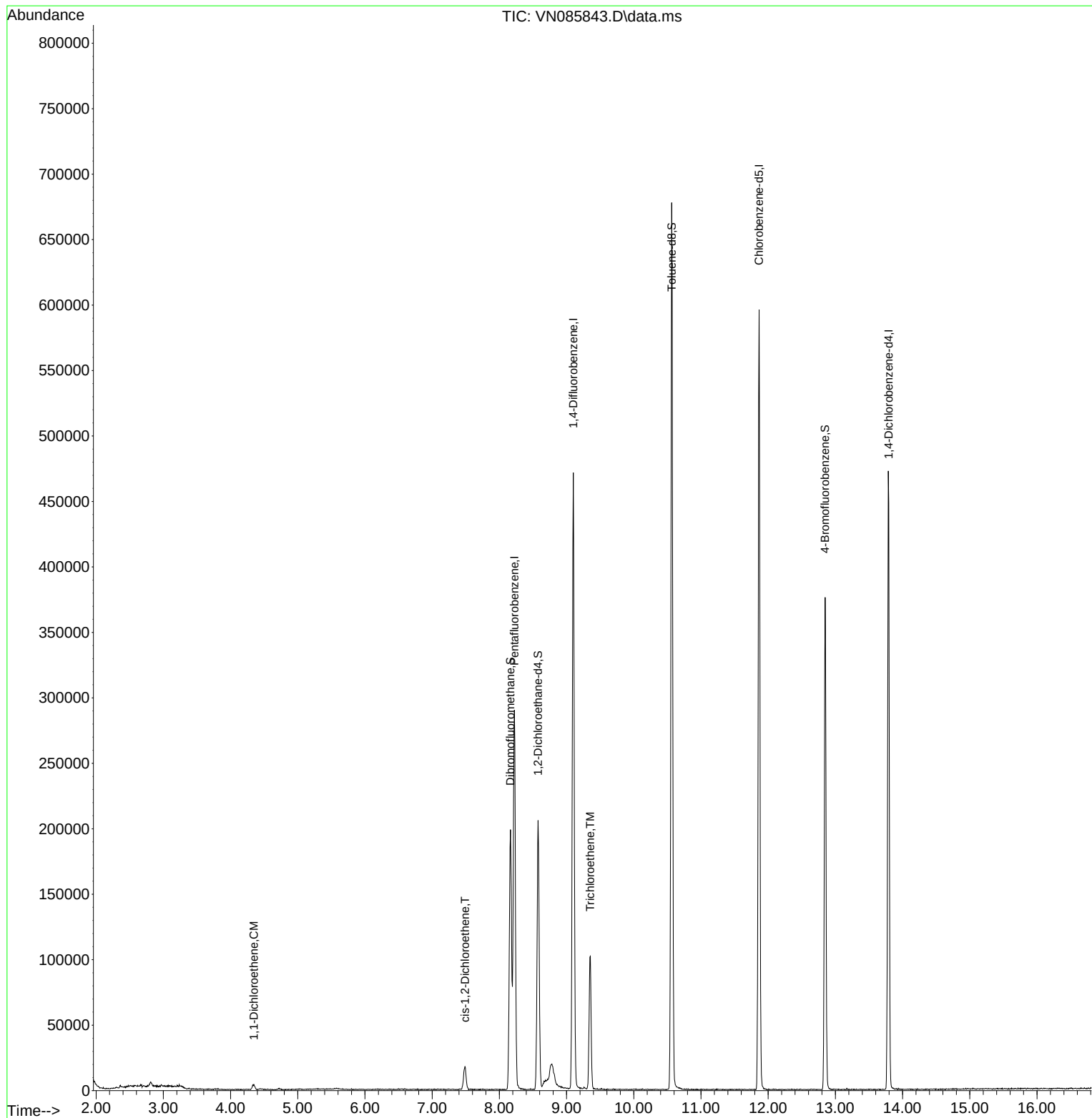
Internal Standards						
1) Pentafluorobenzene	8.224	168	208683	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	401320	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	350062	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	131978	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	165076	61.015	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 122.020%	
35) Dibromofluoromethane	8.165	113	144984	55.210	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 110.420%	
50) Toluene-d8	10.565	98	472225	49.425	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 98.860%	
62) 4-Bromofluorobenzene	12.847	95	133719	42.478	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 84.960%	
Target Compounds						Qvalue
12) 1,1-Dichloroethene	4.347	96	2541	1.110	ug/l	89
27) cis-1,2-Dichloroethene	7.488	96	11389	3.986	ug/l	89
44) Trichloroethene	9.353	130	38256	13.080	ug/l	99

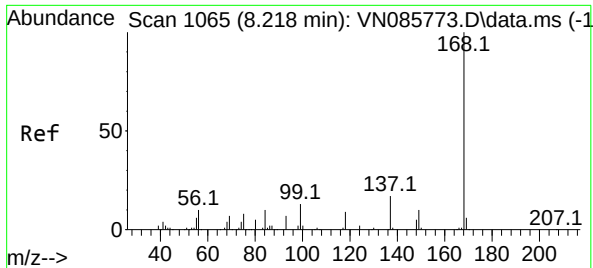
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085843.D
Acq On : 24 Feb 2025 17:38
Operator : JC\MD
Sample : Q1405-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-30S-021825

Quant Time: Feb 25 01:58:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085843.D

Acq: 24 Feb 2025 17:38

Instrument :

MSVOA_N

ClientSampleId :

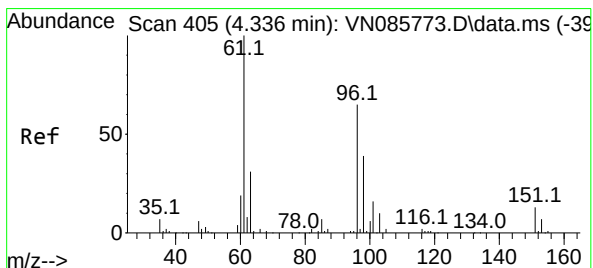
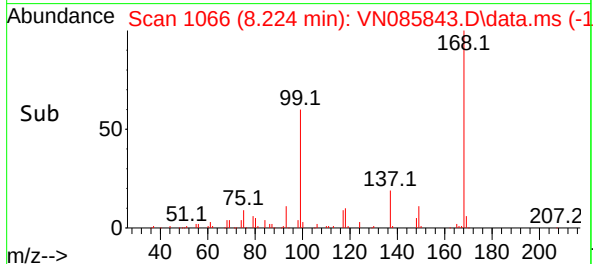
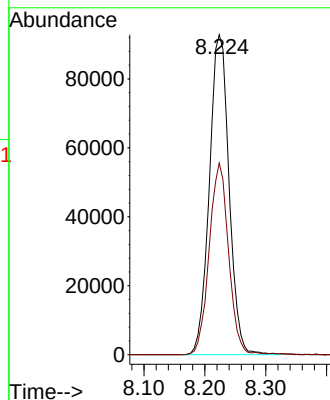
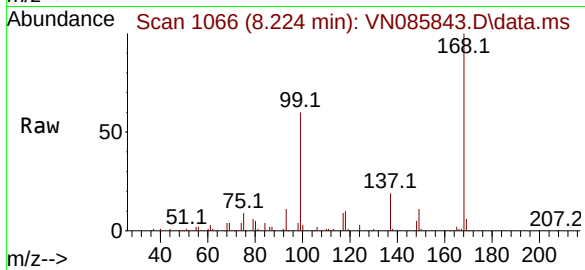
MW-30S-021825

Tgt Ion:168 Resp: 208683

Ion Ratio Lower Upper

168 100

99 59.9 47.9 71.9



#12

1,1-Dichloroethene

Concen: 1.110 ug/l

RT: 4.347 min Scan# 407

Delta R.T. 0.012 min

Lab File: VN085843.D

Acq: 24 Feb 2025 17:38

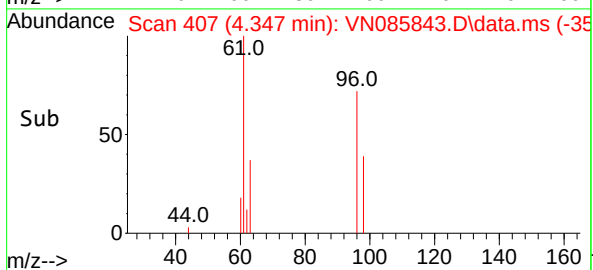
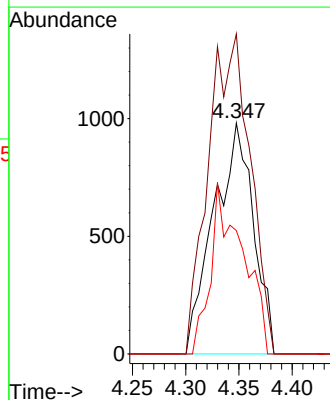
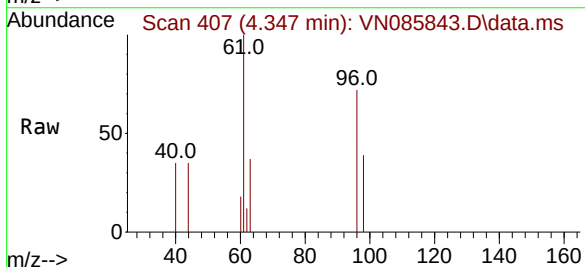
Tgt Ion: 96 Resp: 2541

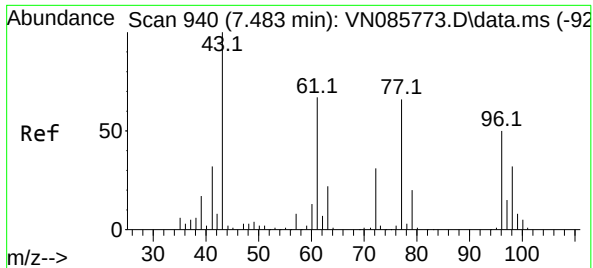
Ion Ratio Lower Upper

96 100

61 138.6 123.3 184.9

98 53.4 48.6 72.8





#27

cis-1,2-Dichloroethene

Concen: 3.986 ug/l

RT: 7.488 min Scan# 940

Delta R.T. 0.006 min

Lab File: VN085843.D

Acq: 24 Feb 2025 17:38

Instrument :

MSVOA_N

ClientSampleId :

MW-30S-021825

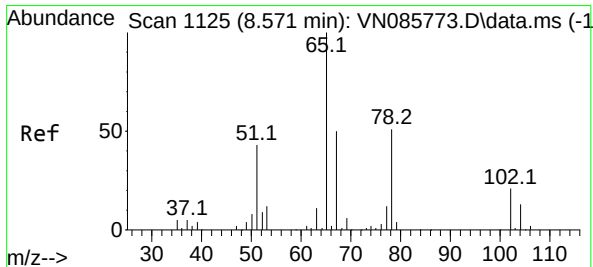
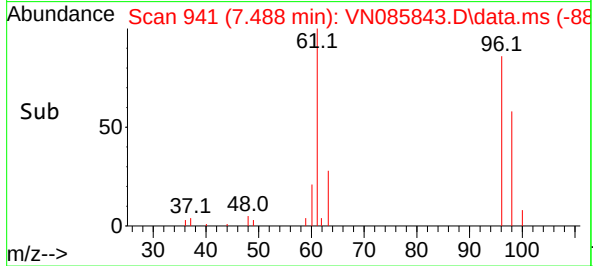
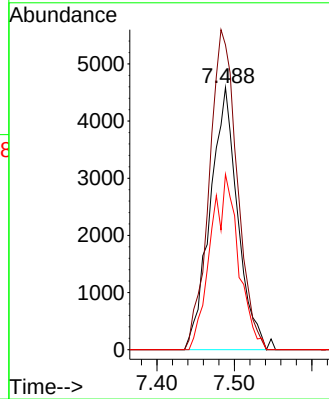
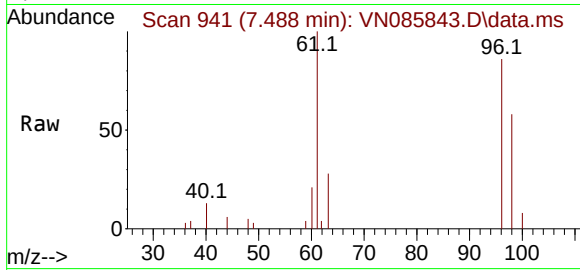
Tgt Ion: 96 Resp: 11389

Ion Ratio Lower Upper

96 100

61 123.3 0.0 280.6

98 67.8 0.0 128.6



#33

1,2-Dichloroethane-d4

Concen: 61.015 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085843.D

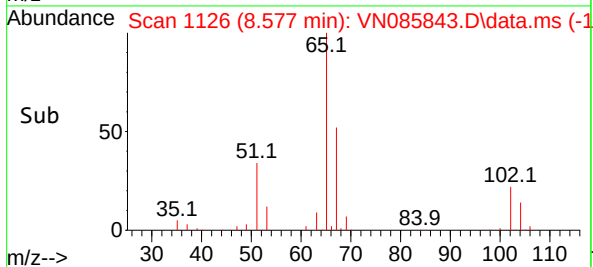
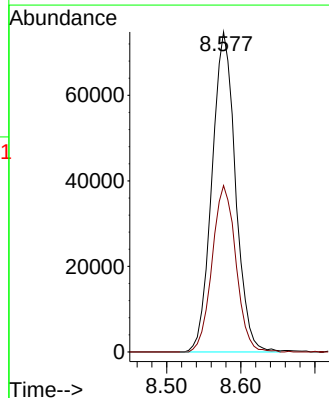
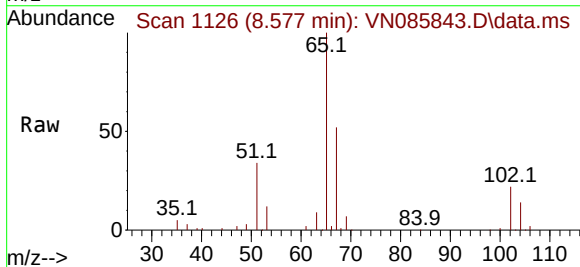
Acq: 24 Feb 2025 17:38

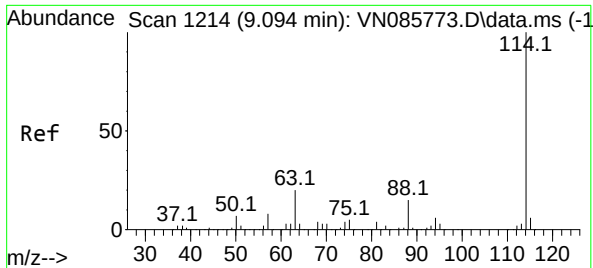
Tgt Ion: 65 Resp: 165076

Ion Ratio Lower Upper

65 100

67 52.5 0.0 106.2

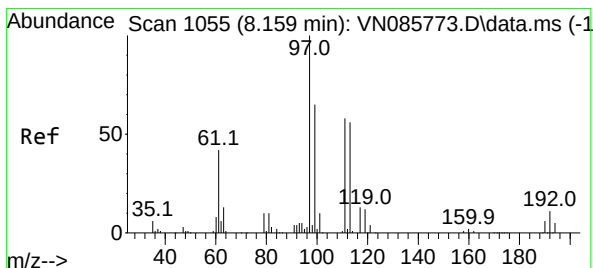
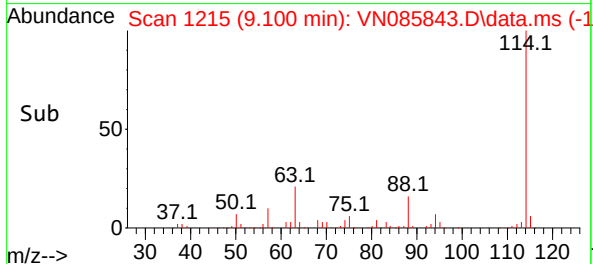
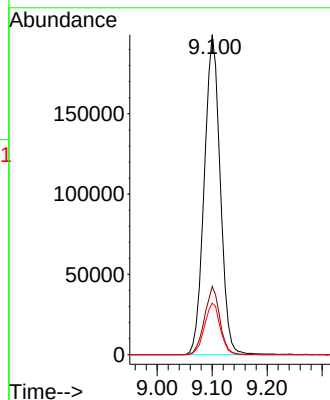
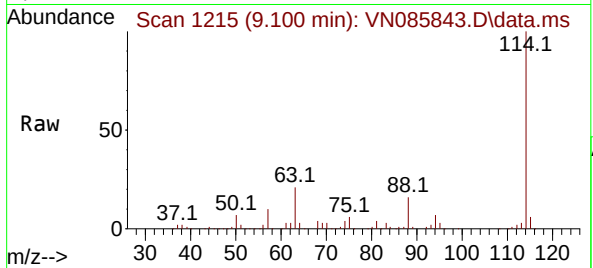




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085843.D
Acq: 24 Feb 2025 17:38

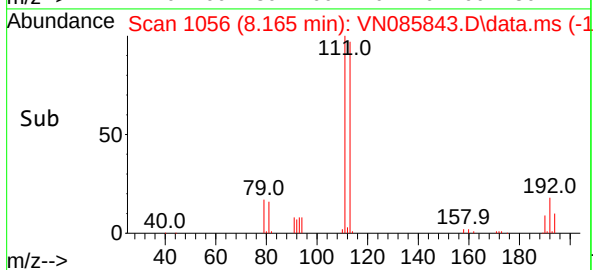
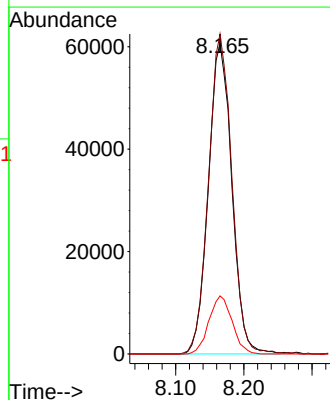
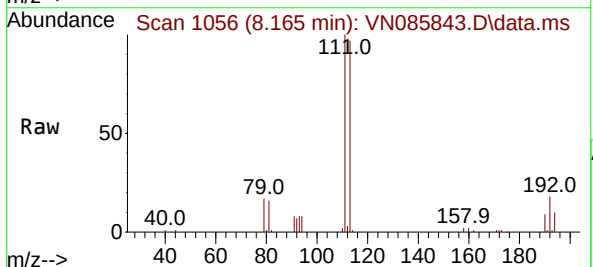
Instrument :
MSVOA_N
ClientSampleId :
MW-30S-021825

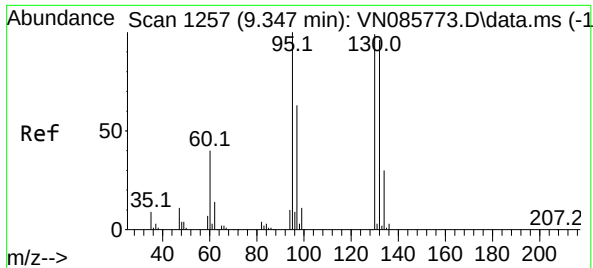
Tgt Ion:114 Resp: 401320
Ion Ratio Lower Upper
114 100
63 21.3 0.0 39.2
88 16.1 0.0 30.0



#35
Dibromofluoromethane
Concen: 55.210 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085843.D
Acq: 24 Feb 2025 17:38

Tgt Ion:113 Resp: 144984
Ion Ratio Lower Upper
113 100
111 102.6 82.2 123.4
192 18.5 14.7 22.1

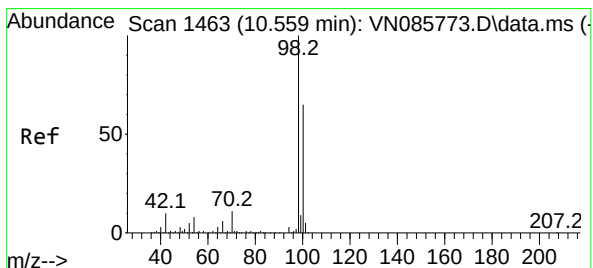
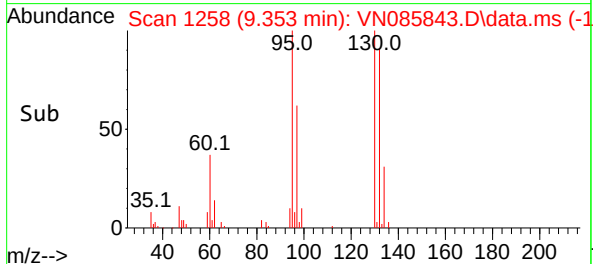
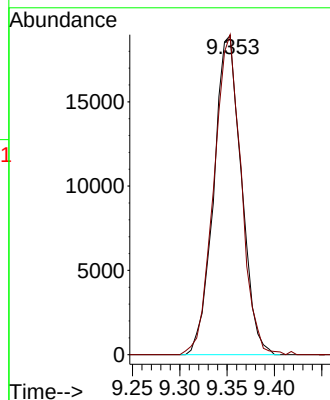
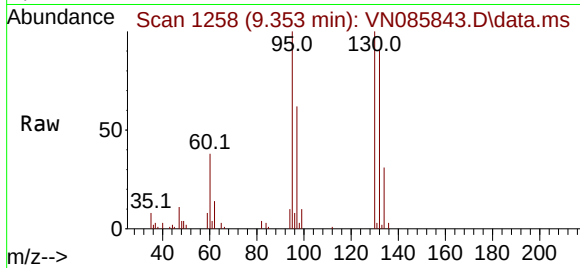




#44
Trichloroethene
Concen: 13.080 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.006 min
Lab File: VN085843.D
Acq: 24 Feb 2025 17:38

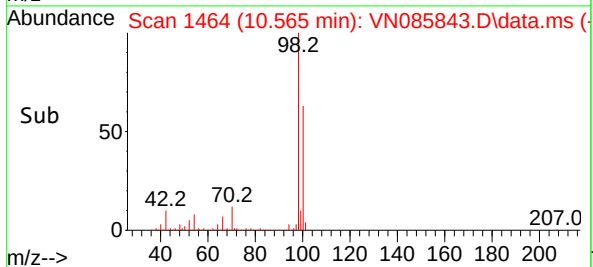
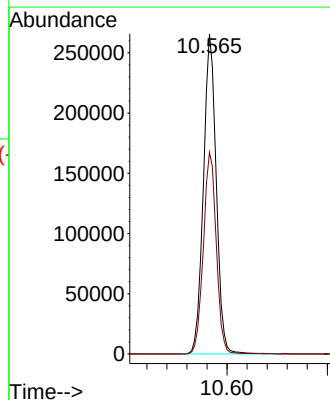
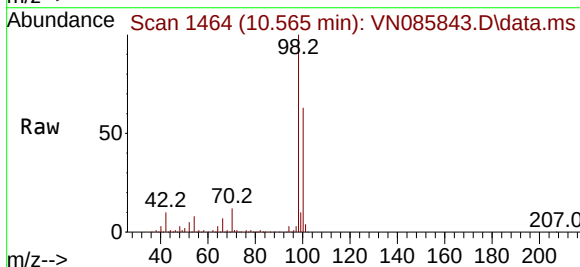
Instrument :
MSVOA_N
ClientSampleId :
MW-30S-021825

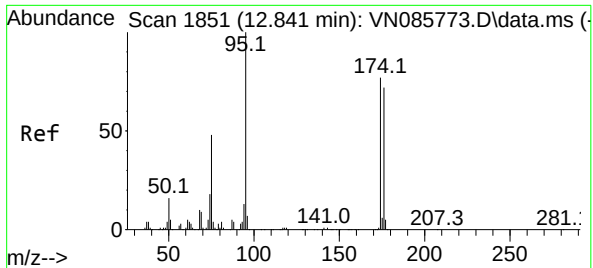
Tgt Ion:130 Resp: 38256
Ion Ratio Lower Upper
130 100
95 100.3 0.0 202.6



#50
Toluene-d8
Concen: 49.425 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085843.D
Acq: 24 Feb 2025 17:38

Tgt Ion: 98 Resp: 472225
Ion Ratio Lower Upper
98 100
100 63.5 52.1 78.1

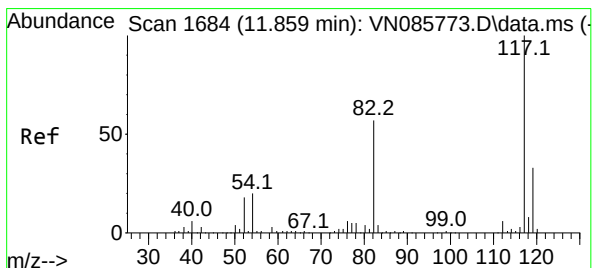
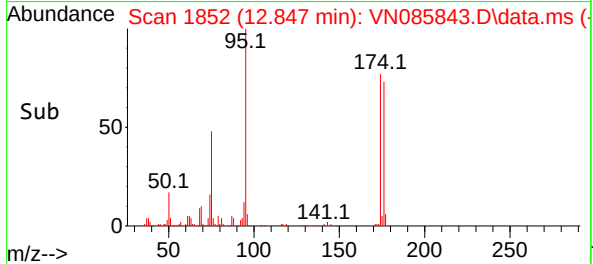
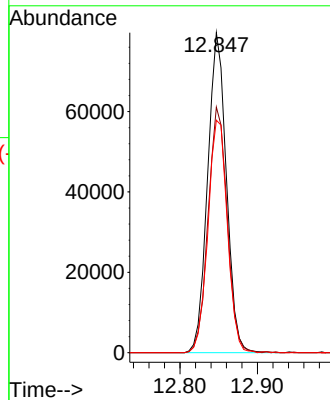
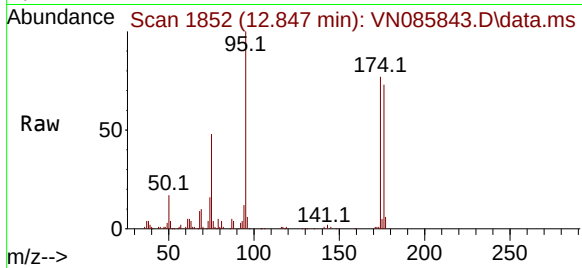




#62
4-Bromofluorobenzene
Concen: 42.478 ug/l
RT: 12.847 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VN085843.D
Acq: 24 Feb 2025 17:38

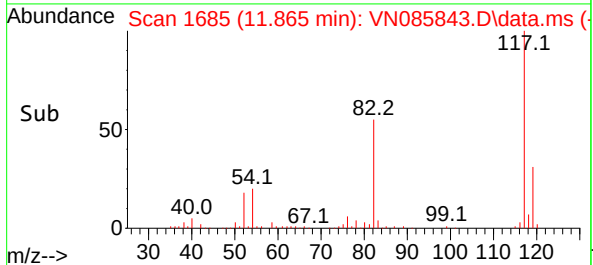
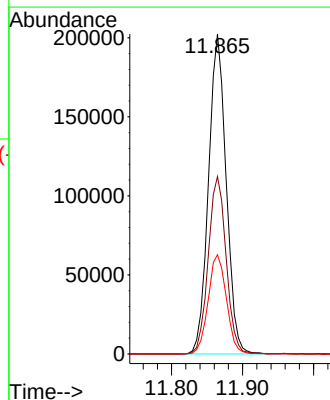
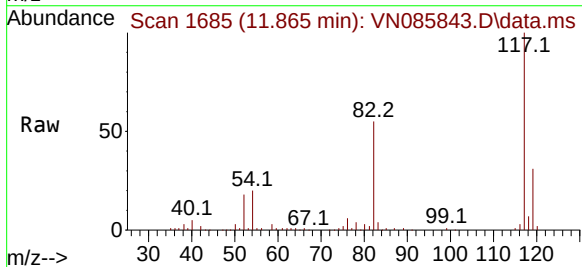
Instrument :
MSVOA_N
ClientSampleId :
MW-30S-021825

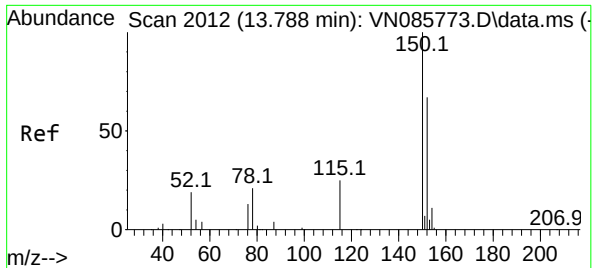
Tgt Ion: 95 Resp: 133719
Ion Ratio Lower Upper
95 100
174 78.2 0.0 152.4
176 75.2 0.0 146.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085843.D
Acq: 24 Feb 2025 17:38

Tgt Ion: 117 Resp: 350062
Ion Ratio Lower Upper
117 100
82 55.4 45.7 68.5
119 31.0 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.006 min

Lab File: VN085843.D

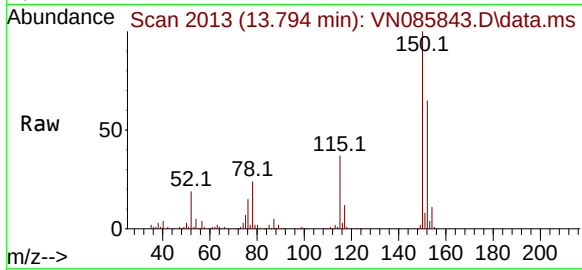
Acq: 24 Feb 2025 17:38

Instrument :

MSVOA_N

ClientSampleId :

MW-30S-021825



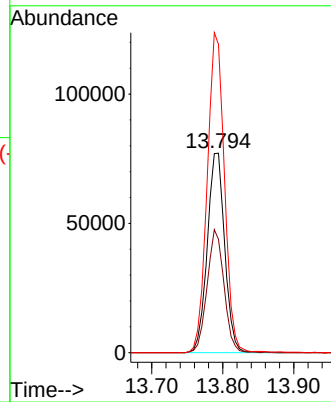
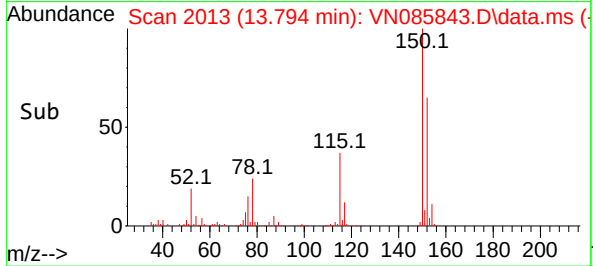
Tgt Ion:152 Resp: 131978

Ion Ratio Lower Upper

152 100

115 59.6 30.4 91.3

150 158.2 0.0 345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085843.D
 Acq On : 24 Feb 2025 17:38
 Operator : JC\MD
 Sample : Q1405-10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-30S-021825

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Title : SW846 8260

Signal : TIC: VN085843.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.488	932	941	950	rVB2	17546	47340	3.90%	0.727%
2	8.165	1042	1056	1061	rBV	198575	482150	39.71%	7.407%
3	8.224	1061	1066	1074	rVB	287030	617751	50.88%	9.490%
4	8.577	1116	1126	1135	rBV	205589	451376	37.17%	6.934%
5	8.783	1151	1161	1179	rVB4	17283	81993	6.75%	1.260%
6	9.100	1206	1215	1229	rBV	470388	933249	76.86%	14.337%
7	9.353	1249	1258	1268	rVB	101364	209051	17.22%	3.212%
8	10.565	1454	1464	1479	rBV	677322	1214212	100.00%	18.653%
9	11.865	1676	1685	1697	rBV	595834	1041960	85.81%	16.007%
10	12.847	1845	1852	1864	rBV	375893	643251	52.98%	9.882%
11	13.788	2004	2012	2023	rBV	472251	787048	64.82%	12.091%

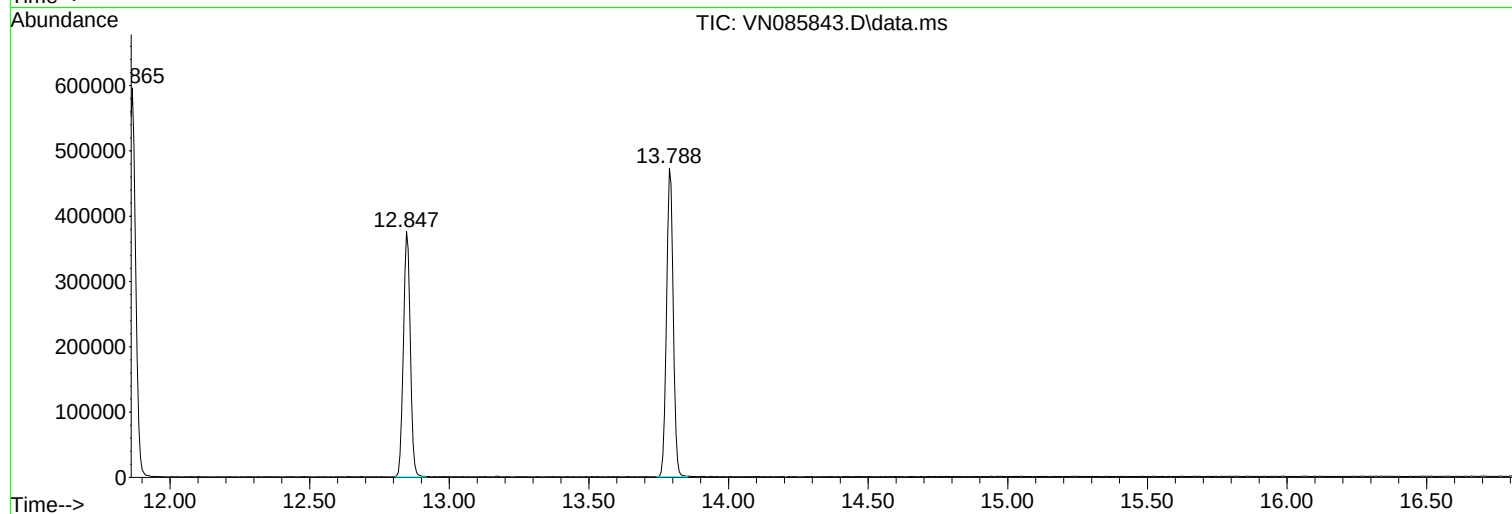
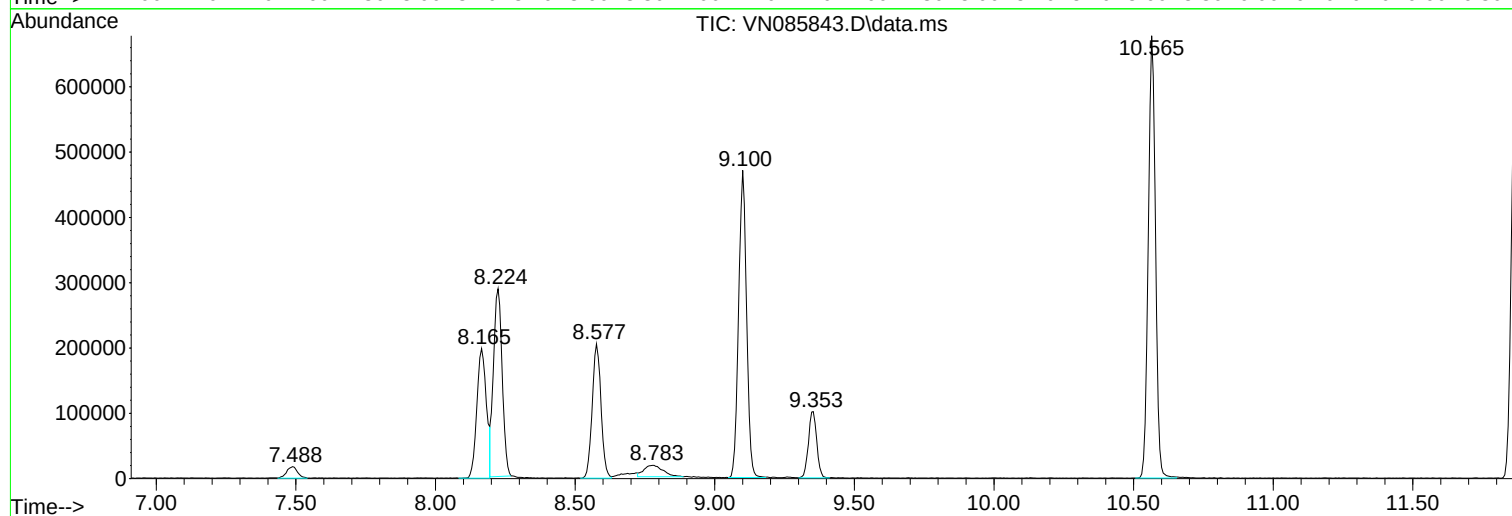
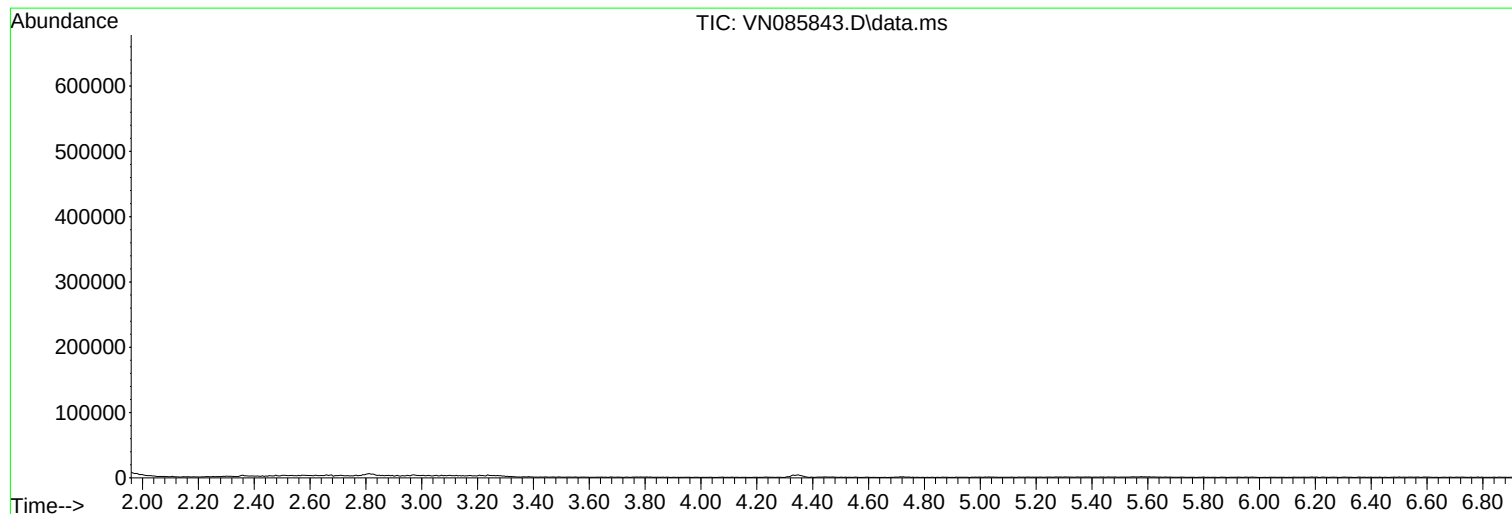
Sum of corrected areas: 6509381

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085843.D
Acq On : 24 Feb 2025 17:38
Operator : JC\MD
Sample : Q1405-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-30S-021825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085843.D
Acq On : 24 Feb 2025 17:38
Operator : JC\MD
Sample : Q1405-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-30S-021825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085843.D
Acq On : 24 Feb 2025 17:38
Operator : JC\MD
Sample : Q1405-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-30S-021825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	TechLaw Consultants, Inc		Date Collected:	02/13/25	
Project:	REAC Commodore		Date Received:	02/21/25	
Client Sample ID:	TB-02-021325		SDG No.:	Q1405	
Lab Sample ID:	Q1405-11		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085838.D	1		02/24/25 15:37	VN022425

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

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	02/13/25	
Project:	REAC Commodore			Date Received:	02/21/25	
Client Sample ID:	TB-02-021325			SDG No.:	Q1405	
Lab Sample ID:	Q1405-11			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085838.D	1		02/24/25 15:37	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	UQ	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	UQ	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	61.3		74 - 125	123%	SPK: 50
1868-53-7	Dibromofluoromethane	54.9		75 - 124	110%	SPK: 50
2037-26-5	Toluene-d8	50.1		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.6		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	212000	8.224			
540-36-3	1,4-Difluorobenzene	411000	9.1			
3114-55-4	Chlorobenzene-d5	362000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.794			

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	02/13/25
Project:	REAC Commodore	Date Received:	02/21/25
Client Sample ID:	TB-02-021325	SDG No.:	Q1405
Lab Sample ID:	Q1405-11	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085838.D	1		02/24/25 15:37	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022425\
 Data File : VN085838.D
 Acq On : 24 Feb 2025 15:37
 Operator : JC\MD
 Sample : Q1405-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-02-021325

Quant Time: Feb 25 01:56:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	212384	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	411076	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	362397	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	137032	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	168666	61.255	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	122.520%
35) Dibromofluoromethane	8.165	113	147765	54.934	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	109.860%
50) Toluene-d8	10.565	98	490740	50.144	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.280%
62) 4-Bromofluorobenzene	12.847	95	143968	44.649	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	89.300%

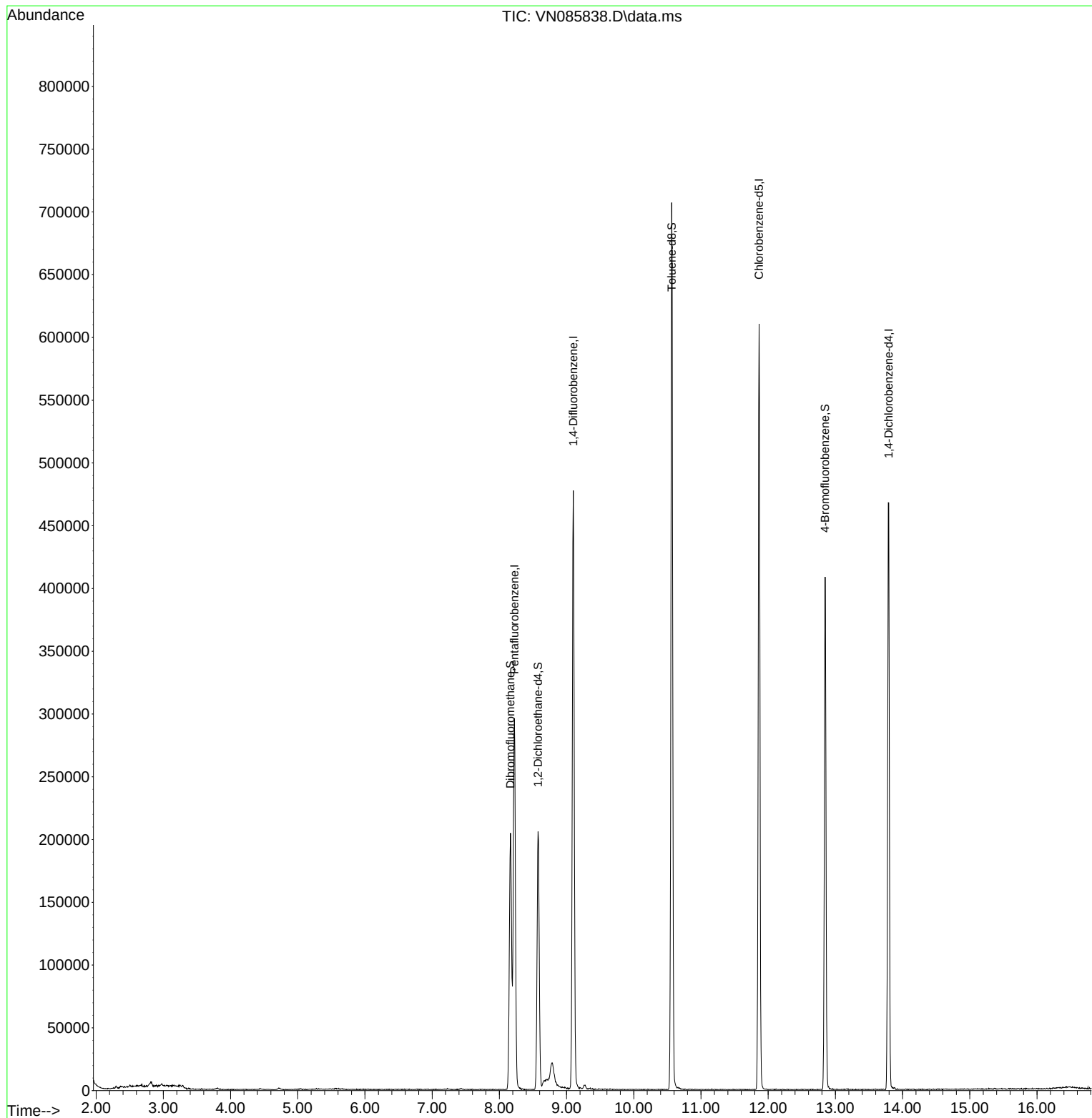
Target Compounds	Qvalue

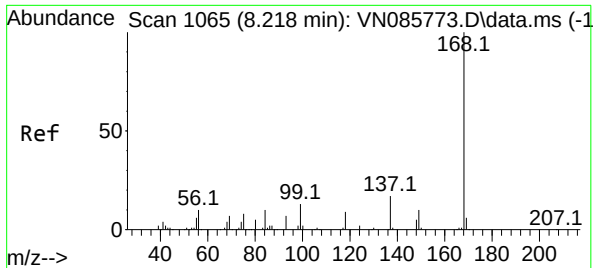
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085838.D
Acq On : 24 Feb 2025 15:37
Operator : JC\MD
Sample : Q1405-11
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-02-021325

Quant Time: Feb 25 01:56:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

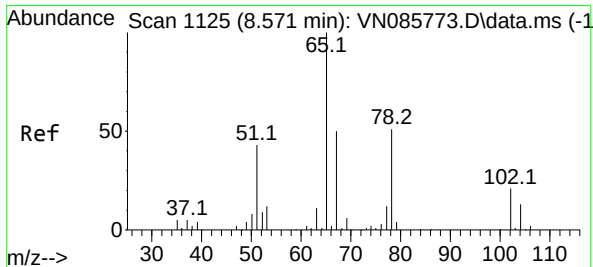
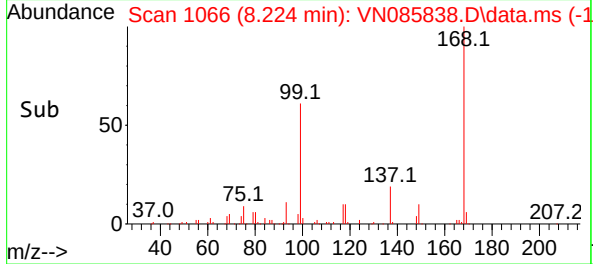
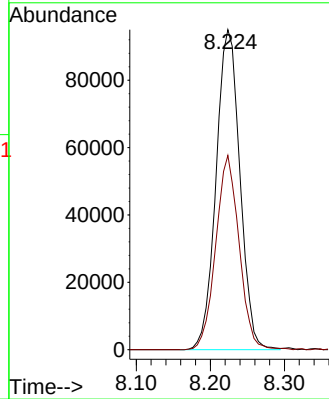
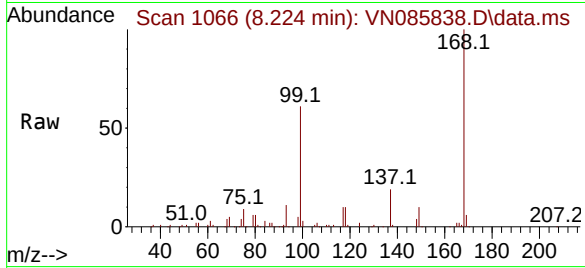




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085838.D
Acq: 24 Feb 2025 15:37

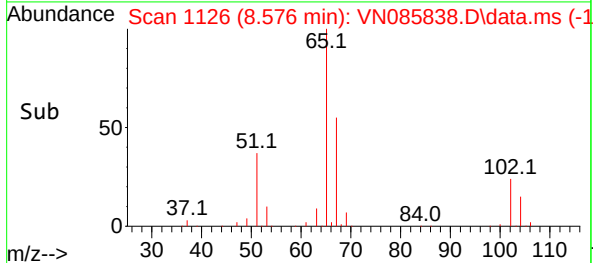
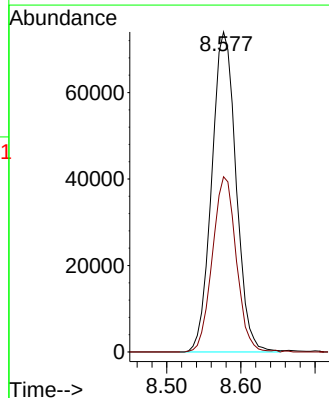
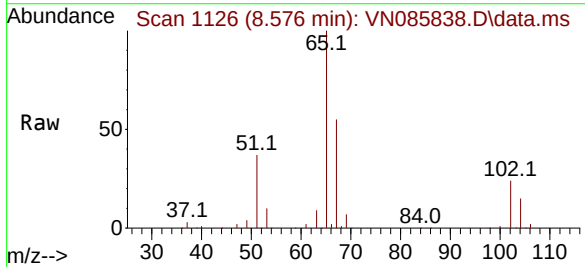
Instrument :
MSVOA_N
ClientSampleId :
TB-02-021325

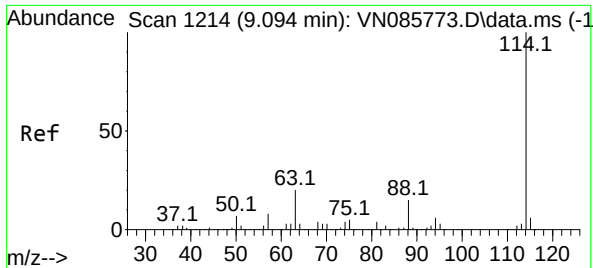
Tgt Ion:168 Resp: 212384
Ion Ratio Lower Upper
168 100
99 60.7 47.9 71.9



#33
1,2-Dichloroethane-d4
Concen: 61.255 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085838.D
Acq: 24 Feb 2025 15:37

Tgt Ion: 65 Resp: 168666
Ion Ratio Lower Upper
65 100
67 53.8 0.0 106.2

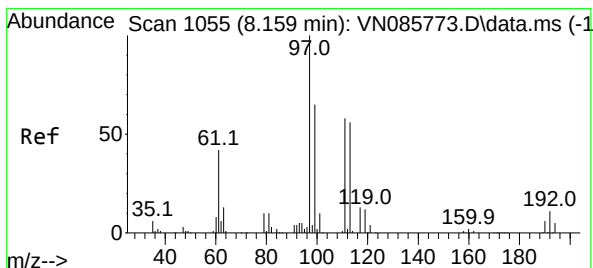
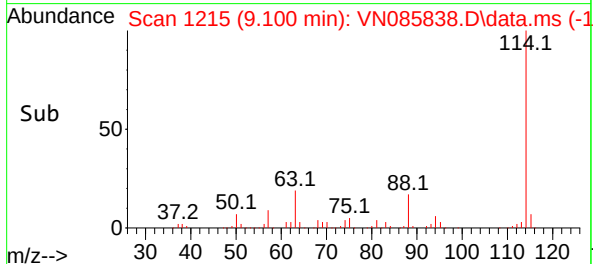
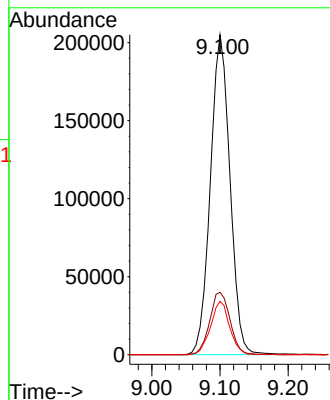
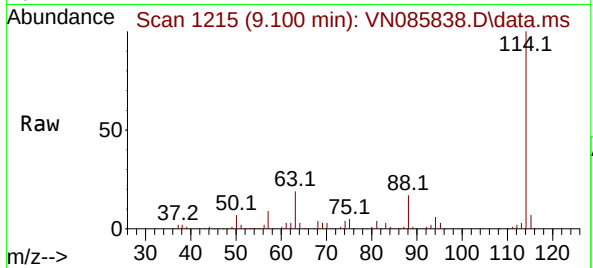




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085838.D
Acq: 24 Feb 2025 15:37

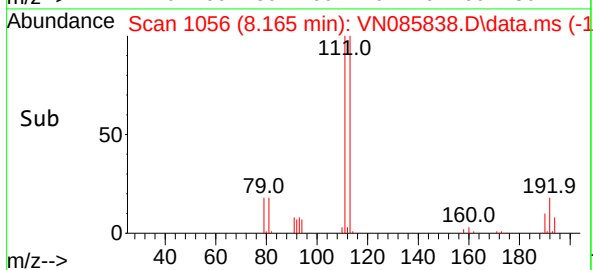
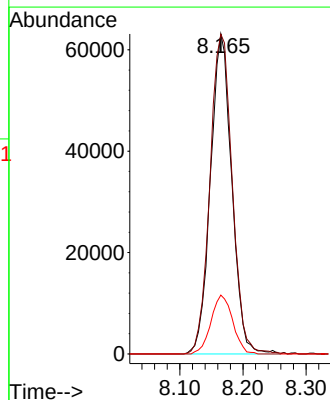
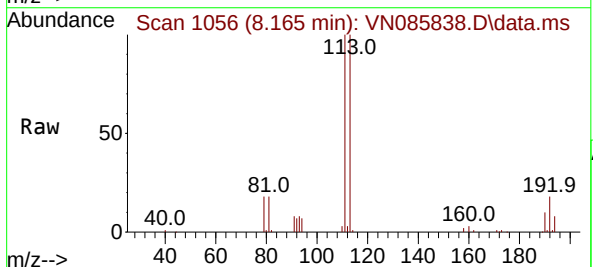
Instrument :
MSVOA_N
ClientSampleId :
TB-02-021325

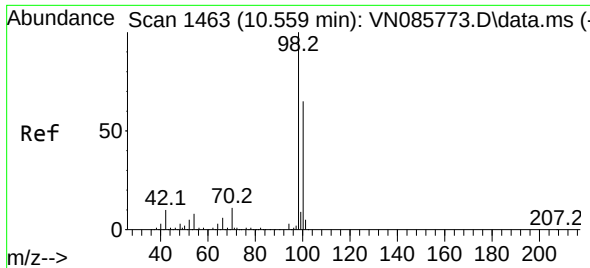
Tgt Ion:114 Resp: 411076
Ion Ratio Lower Upper
114 100
63 19.5 0.0 39.2
88 16.7 0.0 30.0



#35
Dibromofluoromethane
Concen: 54.934 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085838.D
Acq: 24 Feb 2025 15:37

Tgt Ion:113 Resp: 147765
Ion Ratio Lower Upper
113 100
111 104.5 82.2 123.4
192 18.8 14.7 22.1

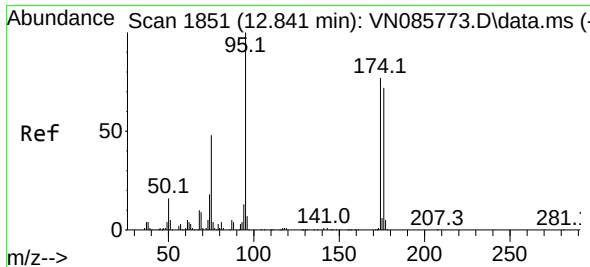
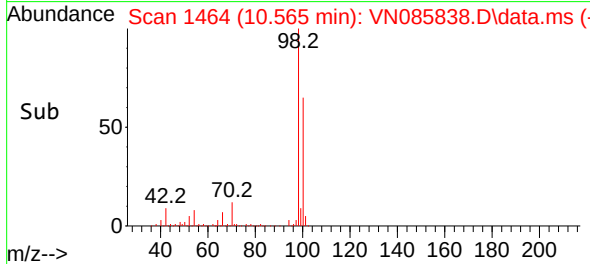
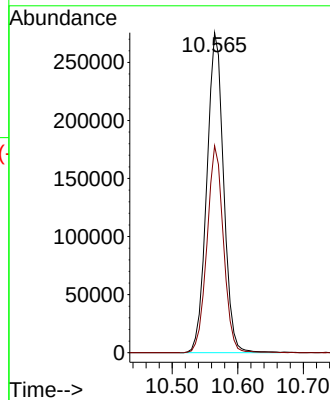
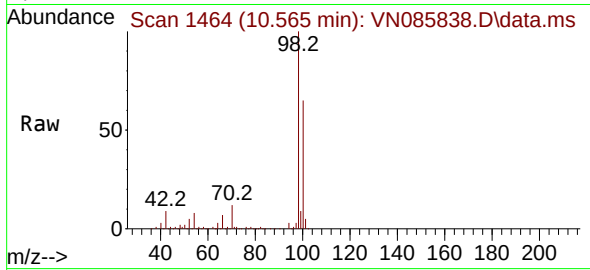




#50
Toluene-d8
Concen: 50.144 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085838.D
Acq: 24 Feb 2025 15:37

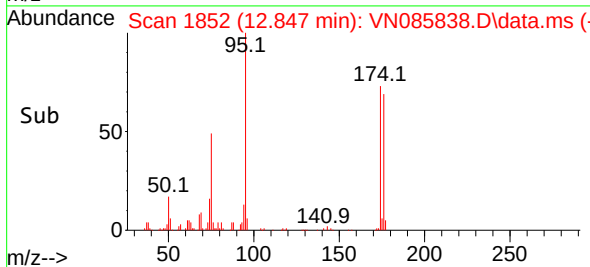
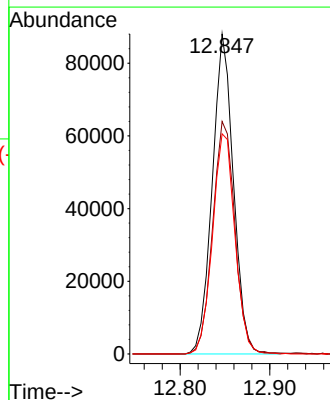
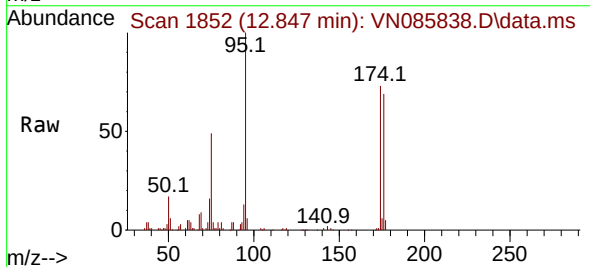
Instrument :
MSVOA_N
ClientSampleId :
TB-02-021325

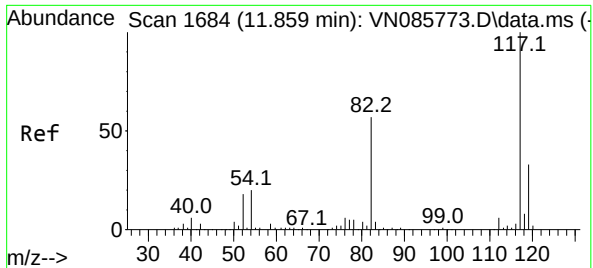
Tgt Ion: 98 Resp: 490740
Ion Ratio Lower Upper
98 100
100 63.5 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 44.649 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085838.D
Acq: 24 Feb 2025 15:37

Tgt Ion: 95 Resp: 143968
Ion Ratio Lower Upper
95 100
174 76.8 0.0 152.4
176 73.1 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085838.D

Acq: 24 Feb 2025 15:37

Instrument :

MSVOA_N

ClientSampleId :

TB-02-021325

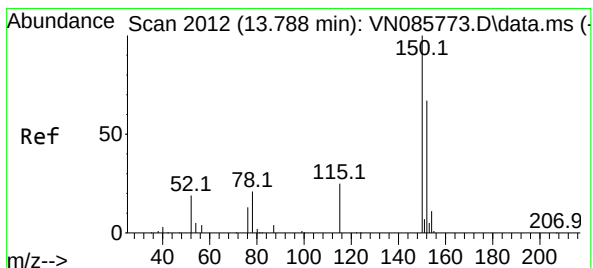
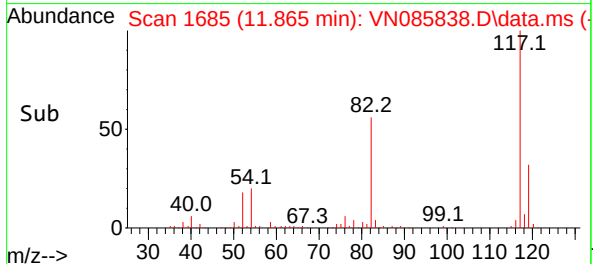
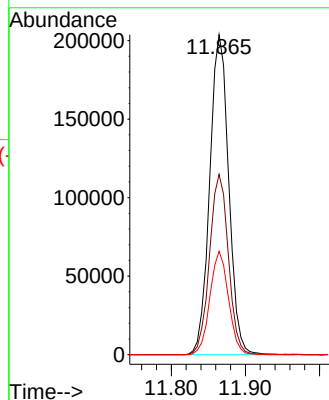
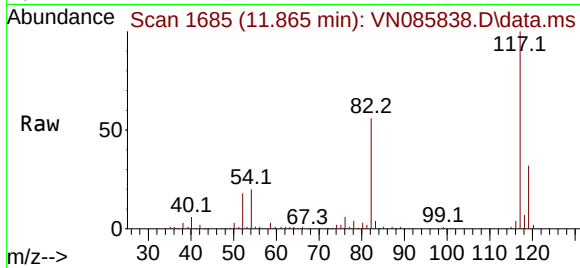
Tgt Ion:117 Resp: 362397

Ion Ratio Lower Upper

117 100

82 56.4 45.7 68.5

119 32.3 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN085838.D

Acq: 24 Feb 2025 15:37

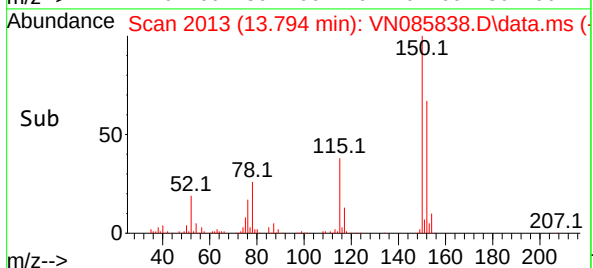
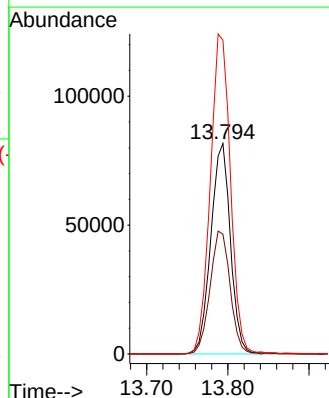
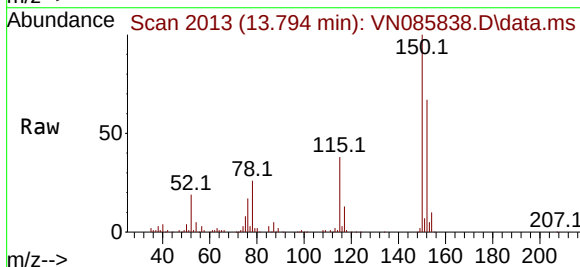
Tgt Ion:152 Resp: 137032

Ion Ratio Lower Upper

152 100

115 59.8 30.4 91.3

150 156.3 0.0 345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085838.D
Acq On : 24 Feb 2025 15:37
Operator : JC\MD
Sample : Q1405-11
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-02-021325

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Title : SW846 8260

Signal : TIC: VN085838.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.165	1046	1056	1061	rBV	204171	492361	39.09%	7.626%
2	8.224	1061	1066	1079	rVB	294926	646176	51.30%	10.008%
3	8.577	1116	1126	1135	rBV	205457	465389	36.95%	7.208%
4	8.788	1151	1162	1170	rVB4	15330	54319	4.31%	0.841%
5	9.100	1205	1215	1227	rBV	476444	963145	76.47%	14.917%
6	10.565	1455	1464	1477	rBV	706539	1259509	100.00%	19.508%
7	11.865	1675	1685	1699	rBV	609929	1075385	85.38%	16.656%
8	12.847	1844	1852	1865	rBV	408381	688569	54.67%	10.665%
9	13.788	2005	2012	2022	rBV	467574	811657	64.44%	12.571%

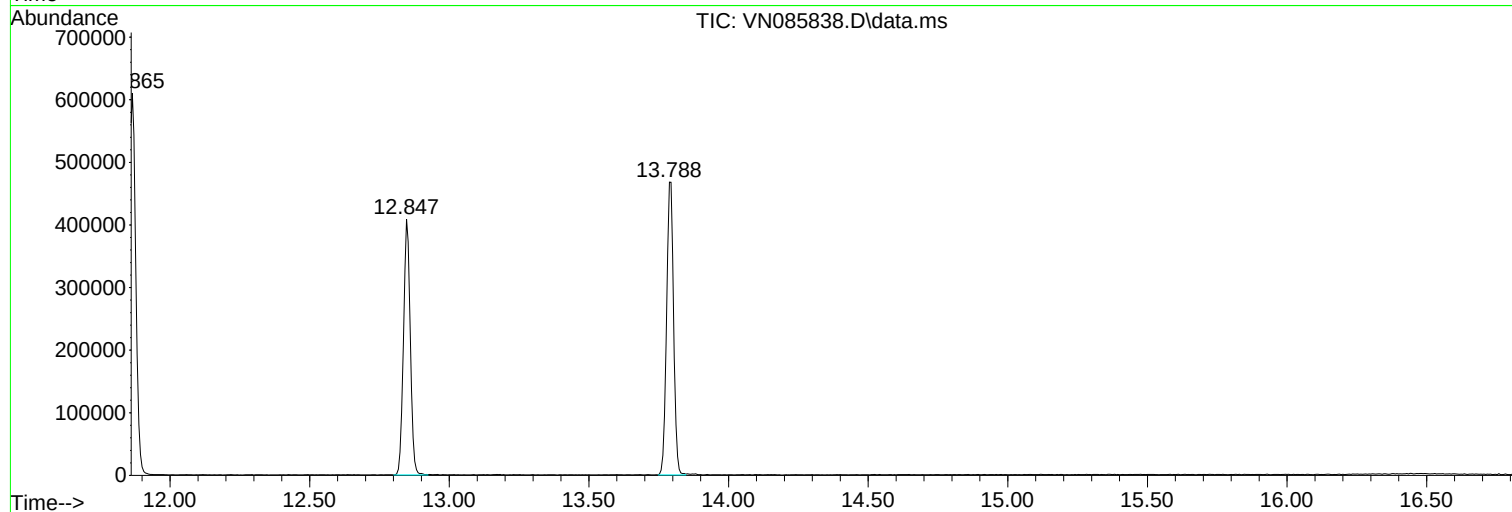
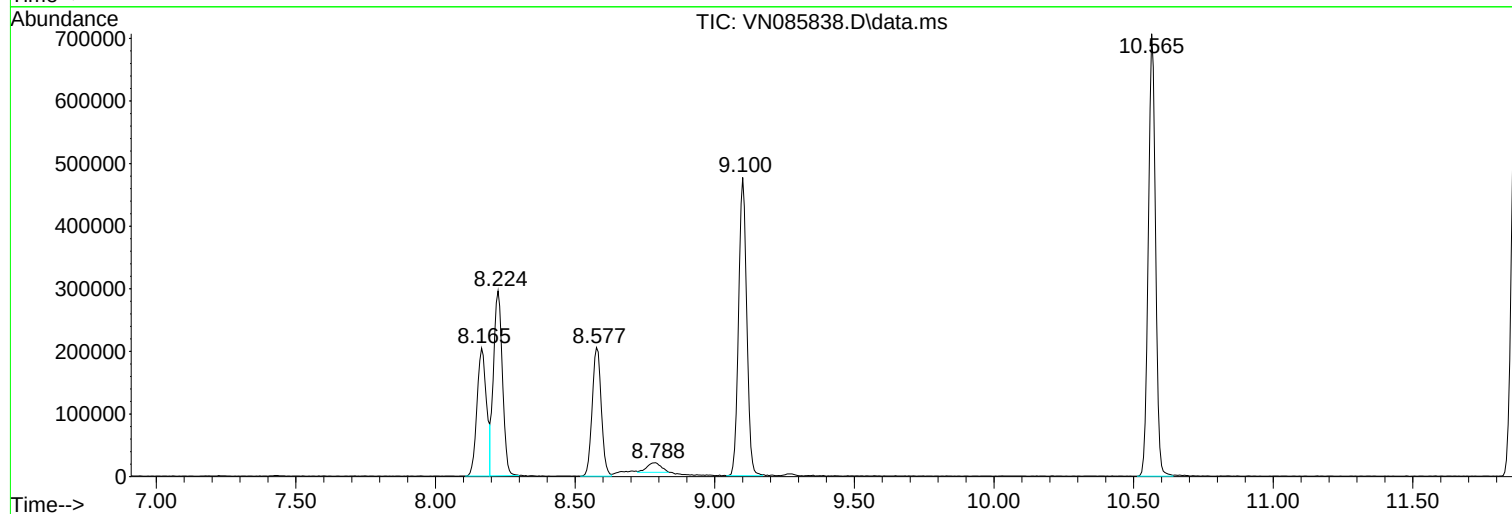
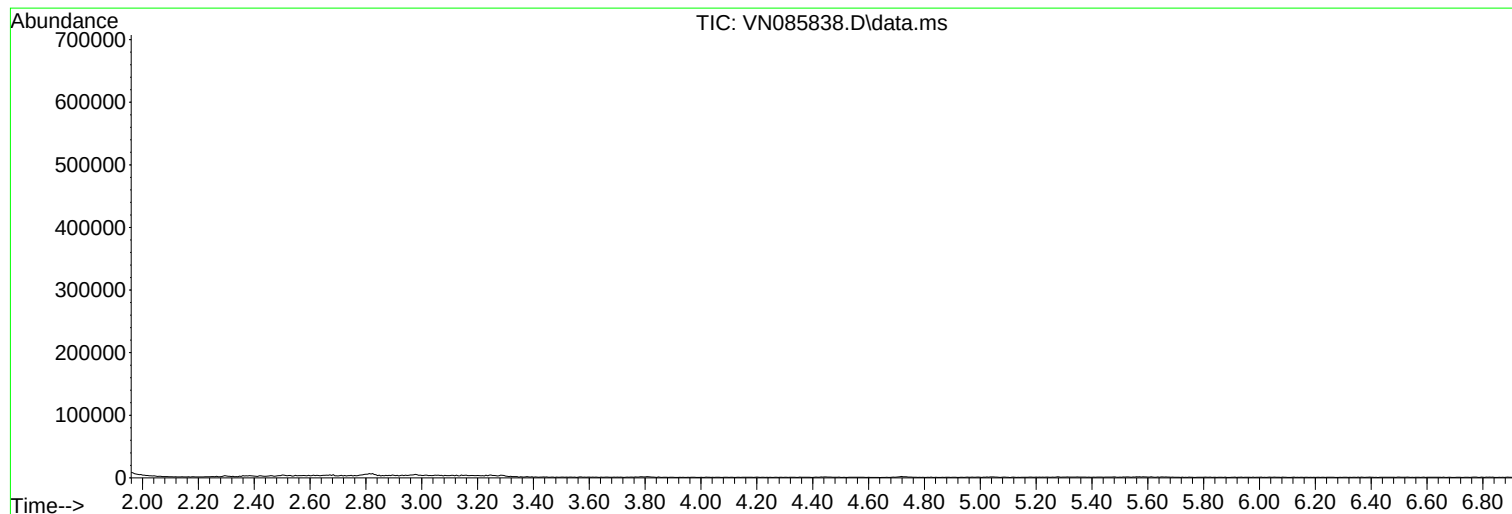
Sum of corrected areas: 6456510

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085838.D
Acq On : 24 Feb 2025 15:37
Operator : JC\MD
Sample : Q1405-11
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-02-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085838.D
Acq On : 24 Feb 2025 15:37
Operator : JC\MD
Sample : Q1405-11
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-02-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085838.D
Acq On : 24 Feb 2025 15:37
Operator : JC\MD
Sample : Q1405-11
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-02-021325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc



CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TECH05
 Lab Code: CHEM Case No.: Q1405 SAS No.: Q1405 SDG No.: Q1405
 Instrument ID: MSVOA_N Calibration Date(s): 02/18/2025 02/18/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:18
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085772.D		RRF050 = VN085773.D		RRF010 = VN085775.D		
		RRF005 = VN085776.D		RRF001 = VN085777.D		RRF020 = VN085779.D		
COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	RRF	% RSD
Dichlorodifluoromethane	0.694	0.669	0.779	0.650	0.660	0.628	0.680	7.8
Chloromethane	0.647	0.622	0.742	0.662	0.817	0.604	0.682	11.9
Vinyl Chloride	0.698	0.678	0.796	0.729	0.761	0.674	0.723	6.7
Bromomethane	0.434	0.424	0.543	0.496		0.413	0.462	12.1
Chloroethane	0.447	0.417	0.516	0.470	0.584	0.438	0.479	12.9
Trichlorofluoromethane	1.010	0.959	1.134	1.065	1.103	1.006	1.046	6.3
1,1,2-Trichlorotrifluoroethane	0.602	0.564	0.674	0.635	0.554	0.599	0.605	7.4
1,1-Dichloroethene	0.555	0.527	0.591	0.571	0.514	0.531	0.548	5.3
Acetone	0.195	0.184	0.217	0.208	0.227	0.198	0.205	7.7
Carbon Disulfide	1.565	1.473	1.804	1.604	1.848	1.455	1.625	10.2
Methyl tert-butyl Ether	1.747	1.658	1.714	1.560	1.438	1.659	1.629	7
Methyl Acetate	0.653	0.619	0.794	0.690	0.853	0.625	0.705	13.7
Methylene Chloride	0.628	0.593	0.710	0.666	0.736	0.625	0.660	8.3
trans-1,2-Dichloroethene	0.585	0.549	0.621	0.599	0.623	0.566	0.590	5.1
1,1-Dichloroethane	1.097	1.035	1.216	1.125	1.073	1.089	1.106	5.6
Cyclohexane	0.878	0.860	0.977	1.056		0.858	0.926	9.5
2-Butanone	0.308	0.294	0.331	0.299	0.279	0.299	0.302	5.6
Carbon Tetrachloride	0.573	0.528	0.583	0.545	0.533	0.538	0.550	4.1
cis-1,2-Dichloroethene	0.705	0.661	0.740	0.685	0.646	0.671	0.685	4.9
Bromochloromethane	0.481	0.444	0.346	0.570	0.483	0.402	0.454	17
Chloroform	1.120	1.070	1.269	1.164	1.171	1.141	1.156	5.7
1,1,1-Trichloroethane	1.012	0.967	1.089	1.058	1.030	1.012	1.028	4.1
Methylcyclohexane	0.560	0.492	0.446	0.405	0.373	0.453	0.455	14.5
Benzene	1.581	1.441	1.568	1.421	1.420	1.474	1.484	4.9
1,2-Dichloroethane	0.499	0.456	0.527	0.464	0.472	0.483	0.483	5.4
Trichloroethene	0.370	0.339	0.384	0.350	0.395	0.348	0.364	6.1
1,2-Dichloropropane	0.377	0.347	0.385	0.344	0.339	0.357	0.358	5.2
Bromodichloromethane	0.569	0.518	0.571	0.533	0.512	0.541	0.541	4.6
4-Methyl-2-Pentanone	0.414	0.379	0.392	0.342	0.290	0.388	0.367	12.1
Toluene	0.993	0.902	0.924	0.820	0.689	0.891	0.870	12

* 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.



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TECH05
 Lab Code: CHEM Case No.: Q1405 SAS No.: Q1405 SDG No.: Q1405
 Instrument ID: MSVOA_N Calibration Date(s): 02/18/2025 02/18/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:18
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085772.D		RRF050 = VN085773.D		RRF010 = VN085775.D		
		RRF005 = VN085776.D		RRF001 = VN085777.D		RRF020 = VN085779.D		
COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	RRF	% RSD
t-1,3-Dichloropropene	0.576	0.521	0.518	0.471	0.408	0.505	0.500	11.3
cis-1,3-Dichloropropene	0.626	0.566	0.582	0.513	0.442	0.559	0.548	11.6
1,1,2-Trichloroethane	0.361	0.331	0.370	0.346	0.324	0.344	0.346	5
2-Hexanone	0.296	0.273	0.266	0.227	0.184	0.270	0.253	16
Dibromochloromethane	0.440	0.402	0.431	0.384	0.355	0.405	0.403	7.7
1,2-Dibromoethane	0.354	0.322	0.362	0.320	0.273	0.330	0.327	9.7
Tetrachloroethene	0.384	0.361	0.420	0.391	0.393	0.375	0.387	5.2
Chlorobenzene	1.183	1.110	1.212	1.139	1.109	1.119	1.145	3.8
Ethyl Benzene	2.105	1.904	1.830	1.665	1.424	1.838	1.794	12.8
m/p-Xylenes	0.809	0.741	0.725	0.610	0.481	0.722	0.682	17.2
o-Xylene	0.771	0.704	0.666	0.584	0.502	0.659	0.648	14.5
Styrene	1.327	1.203	1.060	0.885	0.744	1.133	1.059	20.2
Bromoform	0.327	0.303	0.322	0.301	0.274	0.309	0.306	6.2
Isopropylbenzene	3.851	3.596	3.623	3.067	2.933	3.484	3.425	10.3
1,1,2,2-Tetrachloroethane	1.073	1.053	1.304	1.218	1.271	1.154	1.179	8.8
1,3-Dichlorobenzene	1.772	1.635	1.876	1.697	1.748	1.675	1.734	4.9
1,4-Dichlorobenzene	1.750	1.647	1.884	1.777	1.921	1.684	1.777	6.1
1,2-Dichlorobenzene	1.660	1.574	1.768	1.642	1.744	1.617	1.667	4.5
1,2-Dibromo-3-Chloropropane	0.198	0.193	0.238	0.222	0.256	0.191	0.216	12.4
1,2,4-Trichlorobenzene	0.877	0.802	0.827	0.728	0.829	0.704	0.794	8.3
1,2,3-Trichlorobenzene	0.825	0.789	0.844	0.736	0.917	0.675	0.798	10.6
1,2-Dichloroethane-d4	0.698	0.613	0.588	0.767		0.575	0.648	12.6
Dibromofluoromethane	0.375	0.317	0.294	0.357		0.293	0.327	11.5
Toluene-d8	1.444	1.199	1.017	1.212		1.080	1.190	13.8
4-Bromofluorobenzene	0.503	0.419	0.323	0.370		0.346	0.392	18.2

* 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.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N021825W.M
 Title : SW846 8260
 Last Update : Wed Feb 19 03:43:32 2025
 Response Via : Initial Calibration

Calibration Files

1 =VN085777.D 5 =VN085776.D 10 =VN085775.D 20 =VN085779.D 50 =VN085773.D 100 =VN085772.D

	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.660	0.650	0.779	0.628	0.669	0.694	0.680	7.78
3) P	Chloromethane	0.817	0.662	0.742	0.604	0.622	0.647	0.682	11.93
4) C	Vinyl Chloride	0.761	0.729	0.796	0.674	0.678	0.698	0.723	6.72#
5) T	Bromomethane		0.496	0.543	0.413	0.424	0.434	0.462	12.05
6) T	Chloroethane	0.584	0.470	0.516	0.438	0.417	0.447	0.479	12.88
7) T	Trichlorofluor...	1.103	1.065	1.134	1.006	0.959	1.010	1.046	6.33
8) T	Diethyl Ether	0.313	0.353	0.366	0.325	0.331	0.343	0.339	5.72
9) T	1,1,2-Trichlor...	0.554	0.635	0.674	0.599	0.564	0.602	0.605	7.39
10) T	Methyl Iodide		0.724	0.806	0.712	0.722	0.764	0.745	5.24
11) T	Tert butyl alc...		0.083	0.092	0.073	0.078	0.072	0.080	9.91
12) CM	1,1-Dichloroet...	0.514	0.571	0.591	0.531	0.527	0.555	0.548	5.35#
13) T	Acrolein		0.126	0.117	0.105	0.126	0.116	0.118	7.35
14) T	Allyl chloride	0.694	0.724	0.778	0.686	0.691	0.747	0.720	5.13
15) T	Acrylonitrile	0.255	0.260	0.278	0.256	0.245	0.262	0.259	4.23
16) T	Acetone	0.227	0.208	0.217	0.198	0.184	0.195	0.205	7.68
17) T	Carbon Disulfide	1.848	1.604	1.804	1.455	1.473	1.565	1.625	10.22
18) T	Methyl Acetate	0.853	0.690	0.794	0.625	0.619	0.653	0.705	13.70
19) T	Methyl tert-bu...	1.438	1.560	1.714	1.659	1.658	1.747	1.629	6.95
20) T	Methylene Chlo...	0.736	0.666	0.710	0.625	0.593	0.628	0.660	8.34
21) T	trans-1,2-Dich...	0.623	0.599	0.621	0.566	0.549	0.585	0.590	5.05
22) T	Diisopropyl ether	1.326	1.567	1.764	1.716	1.643	1.744	1.627	10.09
23) T	Vinyl Acetate	0.999	1.034	1.189	1.126	1.118	1.218	1.114	7.63
24) P	1,1-Dichloroet...	1.073	1.125	1.216	1.089	1.035	1.097	1.106	5.59
25) T	2-Butanone	0.279	0.299	0.331	0.299	0.294	0.308	0.302	5.61
26) T	2,2-Dichloropr...	0.943	0.987	1.069	0.971	0.946	0.984	0.983	4.68
27) T	cis-1,2-Dichlo...	0.646	0.685	0.740	0.671	0.661	0.705	0.685	4.91
28) T	Bromochloromet...	0.483	0.570	0.346	0.402	0.444	0.481	0.454	16.96
29) T	Tetrahydrofuran	0.167	0.183	0.214	0.204	0.196	0.206	0.195	8.97
30) C	Chloroform	1.171	1.164	1.269	1.141	1.070	1.120	1.156	5.74#
31) T	Cyclohexane		1.056	0.977	0.858	0.860	0.878	0.926	9.50
32) T	1,1,1-Trichlor...	1.030	1.058	1.089	1.012	0.967	1.012	1.028	4.09
33) S	1,2-Dichloroet...		0.767	0.588	0.575	0.613	0.698	0.648	12.64
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.357	0.294	0.293	0.317	0.375	0.327	11.46
36) T	1,1-Dichloropr...	0.426	0.436	0.490	0.458	0.460	0.509	0.463	6.84
37) T	Ethyl Acetate	0.353	0.376	0.385	0.396	0.375	0.400	0.381	4.47
38) T	Carbon Tetrach...	0.533	0.545	0.583	0.538	0.528	0.573	0.550	4.11
39) T	Methylcyclohexane	0.373	0.405	0.446	0.453	0.492	0.560	0.455	14.50
40) TM	Benzene	1.420	1.421	1.568	1.474	1.441	1.581	1.484	4.89
41) T	Methacrylonitrile	0.165	0.197	0.211	0.211	0.216	0.222	0.204	10.14
42) TM	1,2-Dichloroet...	0.472	0.464	0.527	0.483	0.456	0.499	0.483	5.42
43) T	Isopropyl Acetate	1.354	0.742	0.764	0.670	0.637	0.673	0.807	33.76
44) TM	Trichloroethene	0.395	0.350	0.384	0.348	0.339	0.370	0.364	6.15
45) C	1,2-Dichloropr...	0.339	0.344	0.385	0.357	0.347	0.377	0.358	5.25#
46) T	Dibromomethane	0.242	0.245	0.265	0.256	0.243	0.266	0.253	4.42
47) T	Bromodichlorom...	0.512	0.533	0.571	0.541	0.518	0.569	0.541	4.62
48) T	Methyl methacr...	0.236	0.258	0.277	0.294	0.301	0.332	0.283	11.90
49) T	1,4-Dioxane	0.005	0.005	0.006	0.005	0.006	0.005	0.005	5.54
50) S	Toluene-d8		1.212	1.017	1.080	1.199	1.444	1.190	13.77
51) T	4-Methyl-2-Pen...	0.290	0.342	0.392	0.388	0.379	0.414	0.367	12.11
52) CM	Toluene	0.689	0.820	0.924	0.891	0.902	0.993	0.870	12.03#
53) T	t-1,3-Dichloro...	0.408	0.471	0.518	0.505	0.521	0.576	0.500	11.31
54) T	cis-1,3-Dichlo...	0.442	0.513	0.582	0.559	0.566	0.626	0.548	11.58
55) T	1,1,2-Trichlor...	0.324	0.346	0.370	0.344	0.331	0.361	0.346	5.04
56) T	Ethyl methacry...	0.264	0.382	0.448	0.457	0.497	0.557	0.434	23.32

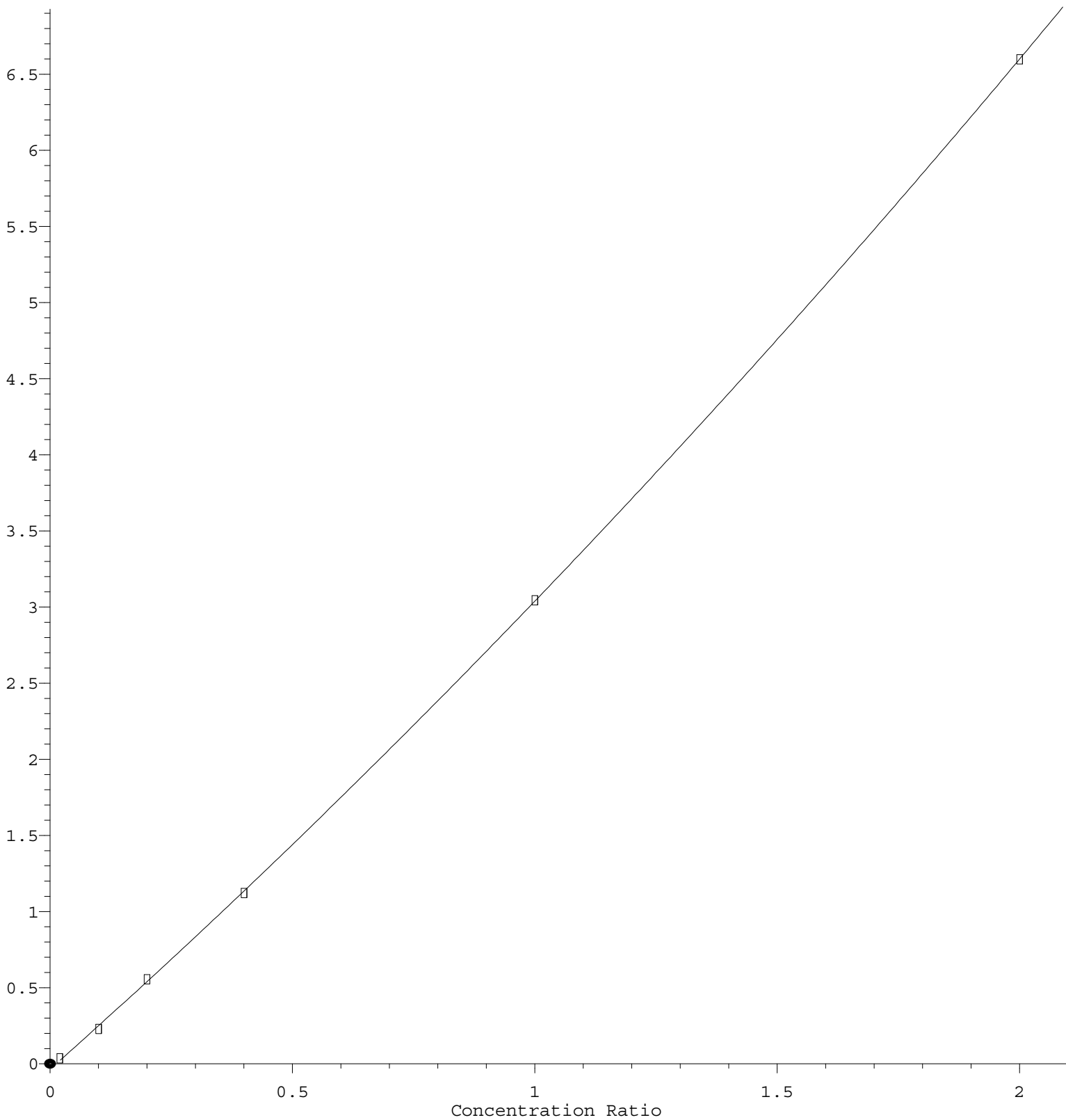
Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N021825W.M

57)	T	1,3-Dichloropr...	0.533	0.553	0.615	0.580	0.565	0.619	0.577	5.91
58)	T	2-Chloroethyl ...	0.133	0.176	0.170	0.249	0.174	0.266	0.195	26.24
59)	T	2-Hexanone	0.184	0.227	0.266	0.270	0.273	0.296	0.253	15.99
60)	T	Dibromochlorom...	0.355	0.384	0.431	0.405	0.402	0.440	0.403	7.70
61)	T	1,2-Dibromoethane	0.273	0.320	0.362	0.330	0.322	0.354	0.327	9.68
62)	S	4-Bromofluorob...	0.370	0.323	0.346	0.419	0.503	0.392		18.22
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.393	0.391	0.420	0.375	0.361	0.384	0.387	5.17
65)	PM	Chlorobenzene	1.109	1.139	1.212	1.119	1.110	1.183	1.145	3.75
66)	T	1,1,1,2-Tetrac...	0.408	0.402	0.444	0.401	0.395	0.420	0.412	4.31
67)	C	Ethyl Benzene	1.424	1.665	1.830	1.838	1.904	2.105	1.794	12.85#
68)	T	m/p-Xylenes	0.481	0.610	0.725	0.722	0.741	0.809	0.682	17.19
69)	T	o-Xylene	0.502	0.584	0.666	0.659	0.704	0.771	0.648	14.48
70)	T	Styrene	0.744	0.885	1.060	1.133	1.203	1.327	1.059	20.15
71)	P	Bromoform	0.274	0.301	0.322	0.309	0.303	0.327	0.306	6.20
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	2.933	3.067	3.623	3.484	3.596	3.851	3.425	10.31
74)	T	N-amyl acetate	1.072	1.117	1.263	1.245	1.241	1.311	1.208	7.67
75)	P	1,1,2,2-Tetrac...	1.271	1.218	1.304	1.154	1.053	1.073	1.179	8.77
76)	T	1,2,3-Trichlor...	1.324	1.161	1.145	1.122	0.947	0.964	1.111	12.59
77)	T	Bromobenzene	0.862	0.905	1.024	0.908	0.904	0.950	0.925	6.01
78)	T	n-propylbenzene	3.031	3.463	4.126	4.090	4.256	4.572	3.923	14.46
79)	T	2-Chlorotoluene	2.385	2.425	2.842	2.681	2.616	2.779	2.621	7.07
80)	T	1,3,5-Trimethy...	2.032	2.418	2.989	3.004	3.056	3.243	2.790	16.62
81)	T	trans-1,4-Dich...	0.339	0.392	0.367	0.397	0.409	0.381		7.38
82)	T	4-Chlorotoluene	2.201	2.437	2.837	2.643	2.658	2.815	2.598	9.32
83)	T	tert-Butylbenzene	1.802	2.119	2.432	2.421	2.578	2.727	2.346	14.27
84)	T	1,2,4-Trimethy...	1.838	2.387	2.937	3.018	3.078	3.306	2.761	19.75
85)	T	sec-Butylbenzene	2.486	2.938	3.534	3.417	3.653	3.864	3.315	15.40
86)	T	p-Isopropyltol...	1.779	2.288	2.776	2.804	3.045	3.299	2.665	20.58
87)	T	1,3-Dichlorobe...	1.748	1.697	1.876	1.675	1.635	1.772	1.734	4.93
88)	T	1,4-Dichlorobe...	1.921	1.777	1.884	1.684	1.647	1.750	1.777	6.08
89)	T	n-Butylbenzene	2.102	2.032	2.338	2.271	2.551	2.829	2.354	12.58
90)	T	Hexachloroethane	0.707	0.629	0.635	0.589	0.587	0.620	0.628	6.99
91)	T	1,2-Dichlorobe...	1.744	1.642	1.768	1.617	1.574	1.660	1.667	4.48
92)	T	1,2-Dibromo-3-...	0.256	0.222	0.238	0.191	0.193	0.198	0.216	12.42
93)	T	1,2,4-Trichlor...	0.829	0.728	0.827	0.704	0.802	0.877	0.794	8.31
94)	T	Hexachlorobuta...	0.649	0.481	0.503	0.405	0.424	0.435	0.483	18.51
95)	T	Naphthalene	2.397	1.858	2.160	1.821	2.324	2.527	2.181	13.31
96)	T	1,2,3-Trichlor...	0.917	0.736	0.844	0.675	0.789	0.825	0.798	10.65

(#) = Out of Range

p-Isopropyltoluene

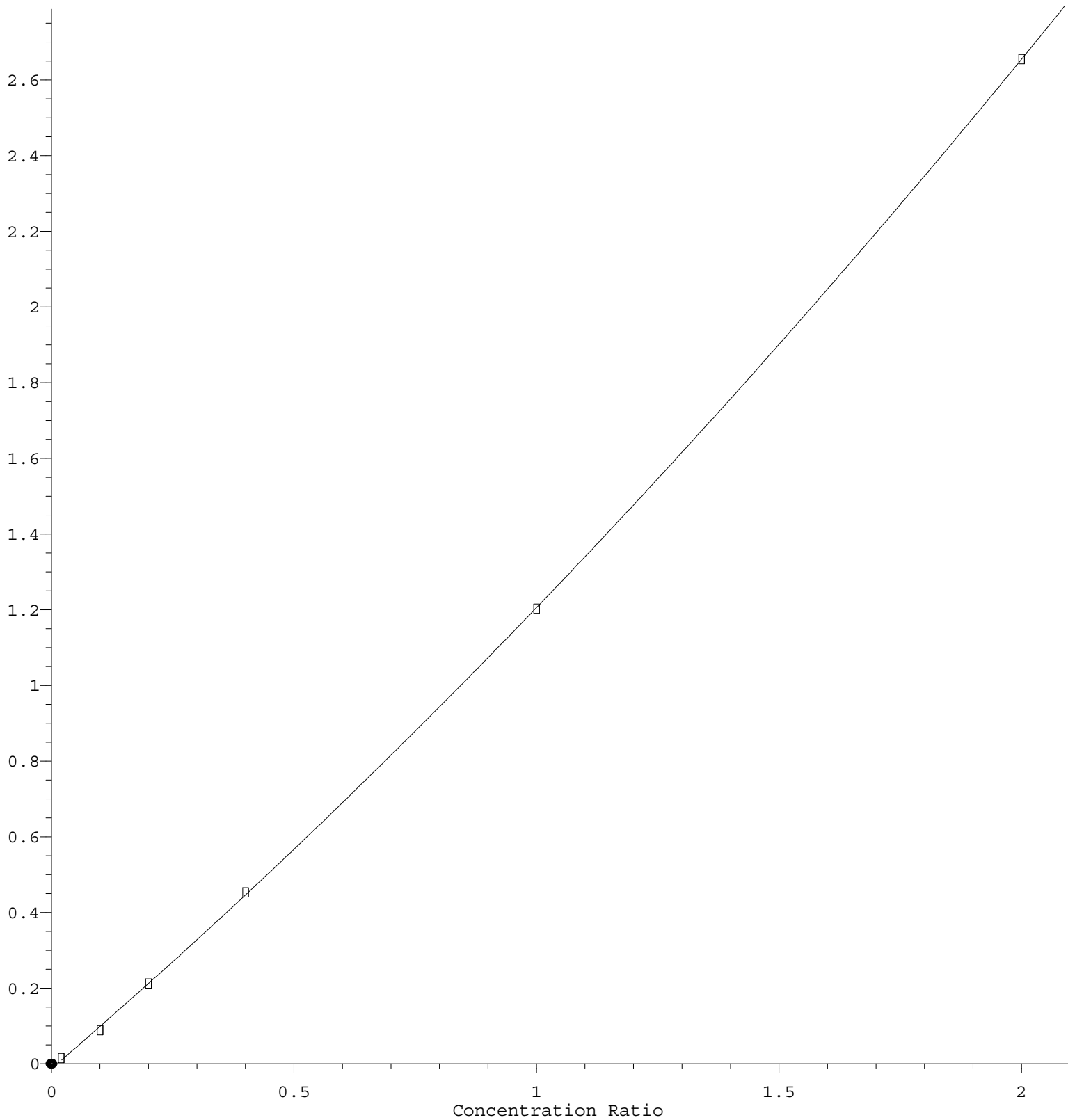
Response Ratio



$R = 2.438e-001 A^2 + 2.829e+000 A - 3.541e-002$
 Coef of Det (r^2) = 0.999965 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N021825W.M
 Calibration Table Last Updated: Wed Feb 19 03:43:32 2025

Styrene

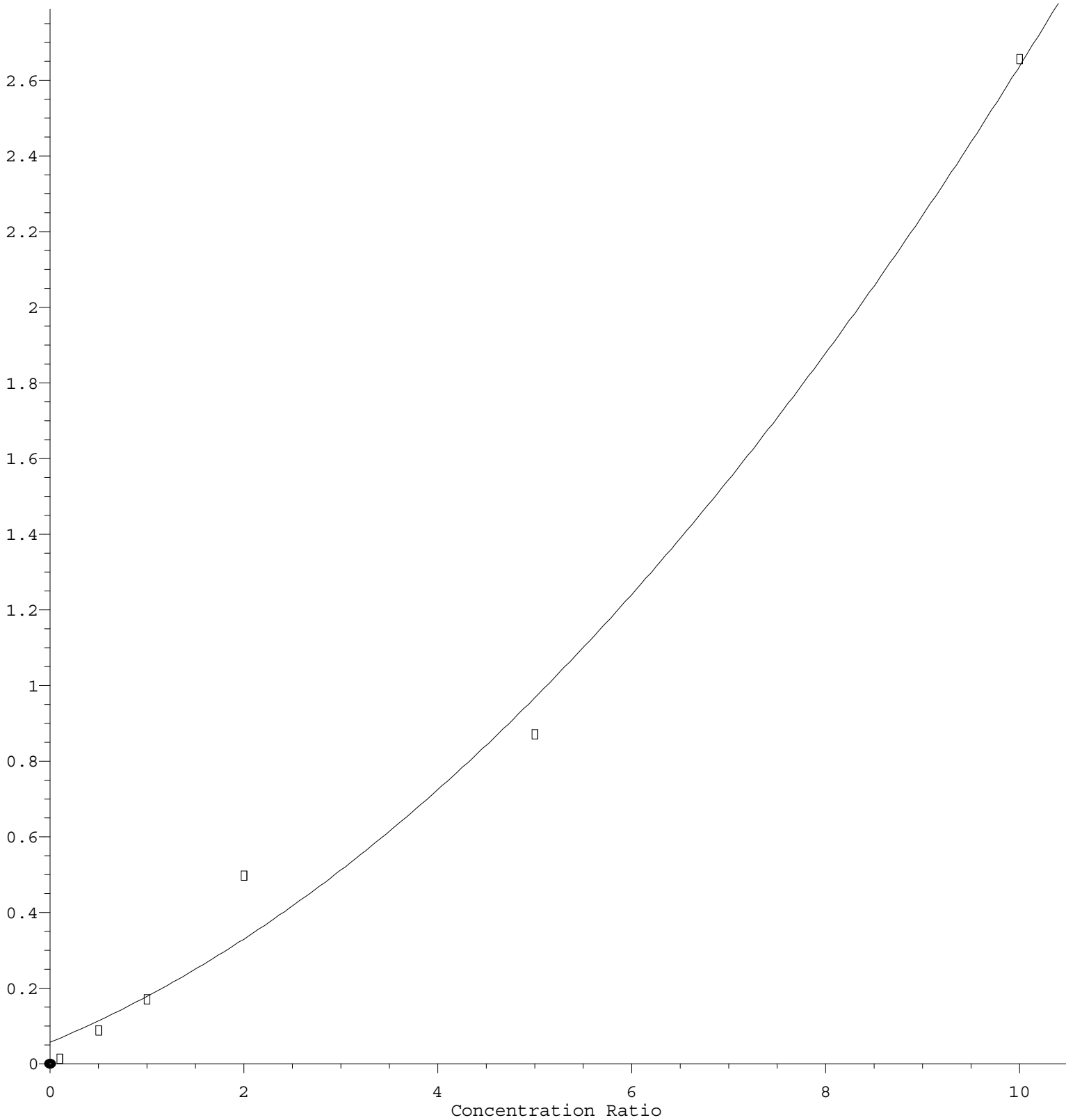
Response Ratio



$R = 1.156e-001 A^2 + 1.102e+000 A - 1.290e-002$
 Coef of Det (r^2) = 0.999965 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N021825W.M
 Calibration Table Last Updated: Wed Feb 19 03:43:32 2025

2-Chloroethyl Vinyl ether

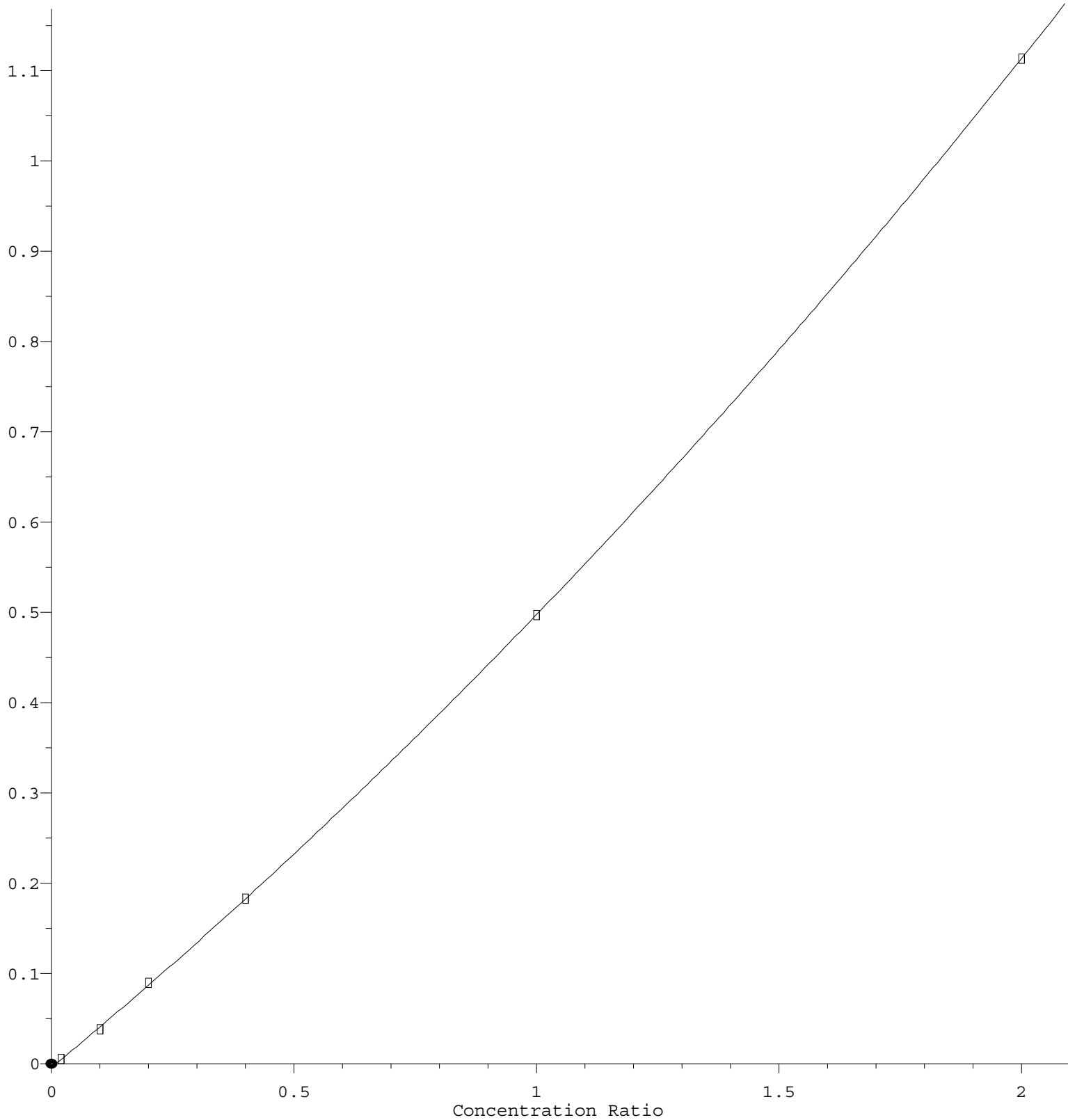
Response Ratio



$R = 1.518e-002 A^2 + 1.064e-001 A + 5.673e-002$
 Coef of Det (r^2) = 0.991781 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N021825W.M
 Calibration Table Last Updated: Wed Feb 19 03:43:32 2025

Ethyl methacrylate

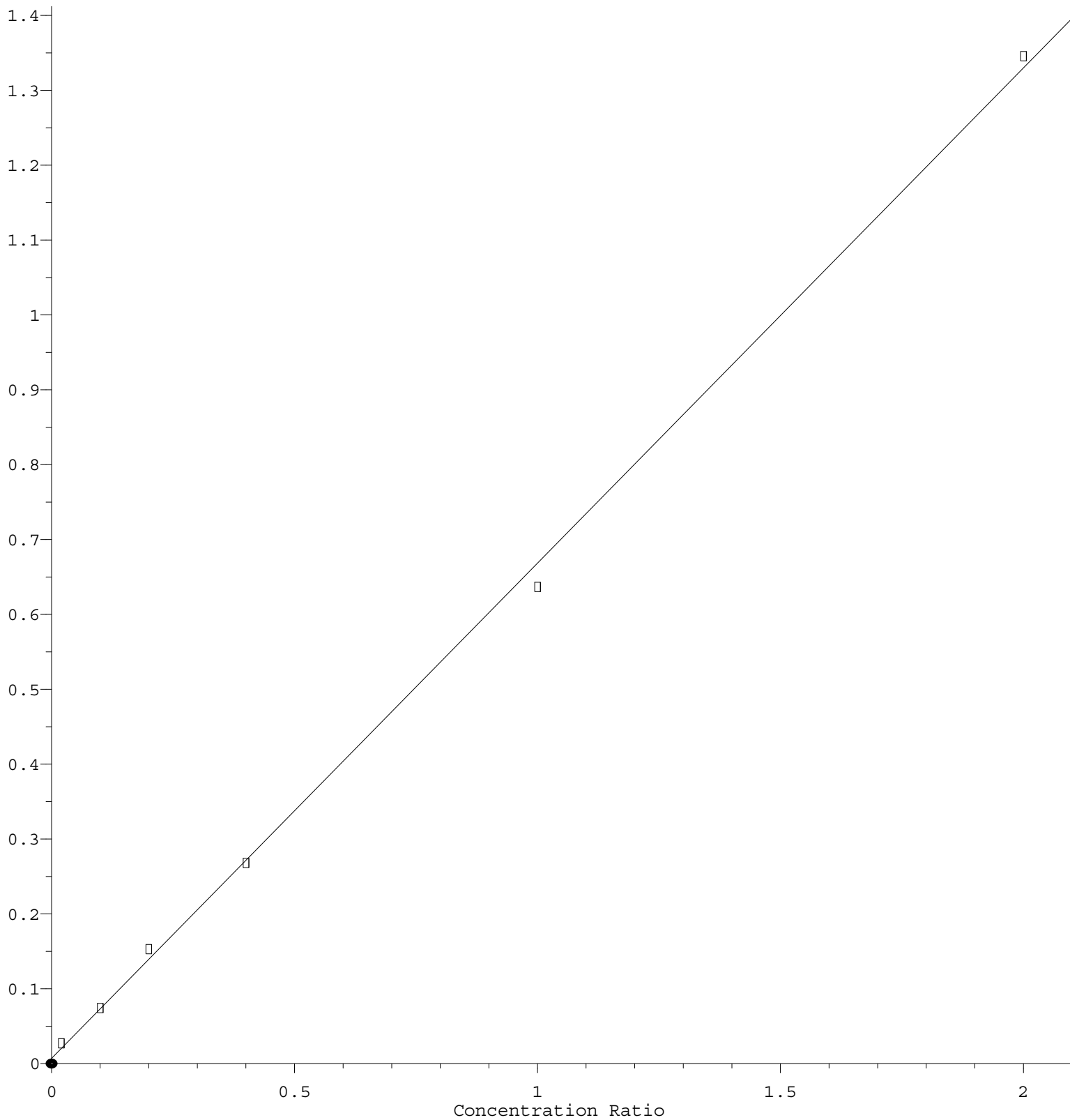
Response Ratio



$R = 5.718e-002 A^2 + 4.442e-001 A - 4.090e-003$
Coef of Det (r^2) = 0.999984 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N021825W.M
Calibration Table Last Updated: Wed Feb 19 03:43:32 2025

Isopropyl Acetate

Response Ratio



$$\text{Response} = 6.614\text{e-}001 * \text{Amt} + 7.307\text{e-}003$$

Coef of Det (r^2) = 0.998821 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N021825W.M

Calibration Table Last Updated: Wed Feb 19 03:43:32 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085772.D
 Acq On : 18 Feb 2025 11:09
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Feb 19 03:15:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.218	168	290979	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	458183	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	412615	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	208401	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	406028	107.630	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 215.260%#			
35) Dibromofluoromethane	8.159	113	343729	114.648	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 229.300%#			
50) Toluene-d8	10.559	98	1323681	121.348	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 242.700%#			
62) 4-Bromofluorobenzene	12.841	95	460996	128.269	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 256.540%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	403621	101.979	ug/l	99
3) Chloromethane	2.359	50	376343	94.759	ug/l	99
4) Vinyl Chloride	2.512	62	406434	96.652	ug/l	100
5) Bromomethane	2.948	94	252576	93.935	ug/l	99
6) Chloroethane	3.118	64	260404	93.490	ug/l	97
7) Trichlorofluoromethane	3.495	101	587970	96.574	ug/l	98
8) Diethyl Ether	3.959	74	199406	101.225	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	350536	99.604	ug/l	98
10) Methyl Iodide	4.583	142	444531	102.472	ug/l	98
11) Tert butyl alcohol	5.506	59	210616	453.930	ug/l	100
12) 1,1-Dichloroethene	4.336	96	323037	101.234	ug/l	96
13) Acrolein	4.171	56	337091	489.916	ug/l	98
14) Allyl chloride	5.018	41	434760	103.773	ug/l	97
15) Acrylonitrile	5.706	53	761272	504.697	ug/l	99
16) Acetone	4.418	43	567220	475.190	ug/l	99
17) Carbon Disulfide	4.706	76	910987	96.328	ug/l	99
18) Methyl Acetate	5.012	43	379901	92.531	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	1016766	107.229	ug/l	100
20) Methylene Chloride	5.271	84	365222	95.142	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	340161	99.001	ug/l	96
22) Diisopropyl ether	6.665	45	1015041	107.223	ug/l	99
23) Vinyl Acetate	6.594	43	3542783	548.253	ug/l	100
24) 1,1-Dichloroethane	6.565	63	638203	99.172	ug/l	98
25) 2-Butanone	7.471	43	896027	510.235	ug/l	100
26) 2,2-Dichloropropane	7.483	77	572429	100.033	ug/l	99
27) cis-1,2-Dichloroethene	7.477	96	410066	102.929	ug/l	99
28) Bromochloromethane	7.806	49	280092	105.895	ug/l	97
29) Tetrahydrofuran	7.830	42	599504	528.664	ug/l	100
30) Chloroform	7.959	83	651761	96.914	ug/l	99
31) Cyclohexane	8.253	56	511031	94.843	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	589206	98.502	ug/l	98
36) 1,1-Dichloropropene	8.365	75	466531	109.949	ug/l	99
37) Ethyl Acetate	7.553	43	366887	105.069	ug/l	99
38) Carbon Tetrachloride	8.353	117	524870	104.105	ug/l	98
39) Methylcyclohexane	9.594	83	513492	123.184	ug/l	98
40) Benzene	8.600	78	1448660	106.522	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085772.D
 Acq On : 18 Feb 2025 11:09
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:15:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	203689	109.119	ug/l	95
42) 1,2-Dichloroethane	8.665	62	457707	103.326	ug/l	100
43) Isopropyl Acetate	8.683	43	616521	101.163	ug/l	98
44) Trichloroethene	9.347	130	339019	101.529	ug/l	100
45) 1,2-Dichloropropane	9.618	63	345721	105.316	ug/l	99
46) Dibromomethane	9.700	93	243628	105.216	ug/l	100
47) Bromodichloromethane	9.883	83	521496	105.269	ug/l	99
48) Methyl methacrylate	9.677	41	304067	117.252	ug/l	100
49) 1,4-Dioxane	9.688	88	100443	2036.793	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	1896777	563.403	ug/l	100
52) Toluene	10.624	92	910251	114.182	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	527815	115.223	ug/l	99
54) cis-1,3-Dichloropropene	10.306	75	573653	114.202	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	330642	104.317	ug/l	99
56) Ethyl methacrylate	10.871	69	510041	100.007	ug/l	100
57) 1,3-Dichloropropane	11.159	76	567039	107.169	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	1216927	502.158	ug/l	99
59) 2-Hexanone	11.188	43	1358126	586.394	ug/l	99
60) Dibromochloromethane	11.353	129	402920	109.169	ug/l	99
61) 1,2-Dibromoethane	11.465	107	324747	108.439	ug/l	99
64) Tetrachloroethene	11.100	164	316658	99.063	ug/l	97
65) Chlorobenzene	11.888	112	976337	103.290	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	346777	102.068	ug/l	100
67) Ethyl Benzene	11.959	91	1736848	117.301	ug/l	100
68) m/p-Xylenes	12.065	106	1335750	237.496	ug/l	99
69) o-Xylene	12.394	106	635879	118.977	ug/l	99
70) Styrene	12.406	104	1095464	100.012	ug/l	100
71) Bromoform	12.576	173	269816	106.877	ug/l #	98
73) Isopropylbenzene	12.688	105	1605096	112.422	ug/l	100
74) N-amyl acetate	12.488	43	546485	108.541	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	447332	91.050	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	401864m	87.774	ug/l	
77) Bromobenzene	12.976	156	395882	102.631	ug/l	100
78) n-propylbenzene	13.029	91	1905758	116.552	ug/l	100
79) 2-Chlorotoluene	13.118	91	1158348	106.029	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	1351753	116.226	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	170494	107.459	ug/l	96
82) 4-Chlorotoluene	13.218	91	1173182	108.322	ug/l	99
83) tert-Butylbenzene	13.435	119	1136802	116.235	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	1378080	119.764	ug/l	100
85) sec-Butylbenzene	13.612	105	1610382	116.540	ug/l	100
86) p-Isopropyltoluene	13.723	119	1374884	99.983	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	738679	102.213	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	729470	98.484	ug/l	99
89) n-Butylbenzene	14.053	91	1179057	120.179	ug/l	99
90) Hexachloroethane	14.329	117	258559	98.800	ug/l	97
91) 1,2-Dichlorobenzene	14.100	146	691905	99.562	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	82545	91.495	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	365599	110.404	ug/l	99
94) Hexachlorobutadiene	15.494	225	181264	90.068	ug/l	98
95) Naphthalene	15.635	128	1053414	115.870	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	343936	103.456	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085772.D
Acq On : 18 Feb 2025 11:09
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:15:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
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_N\Data\VN021825\
Data File : VN085772.D
Acq On : 18 Feb 2025 11:09
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025

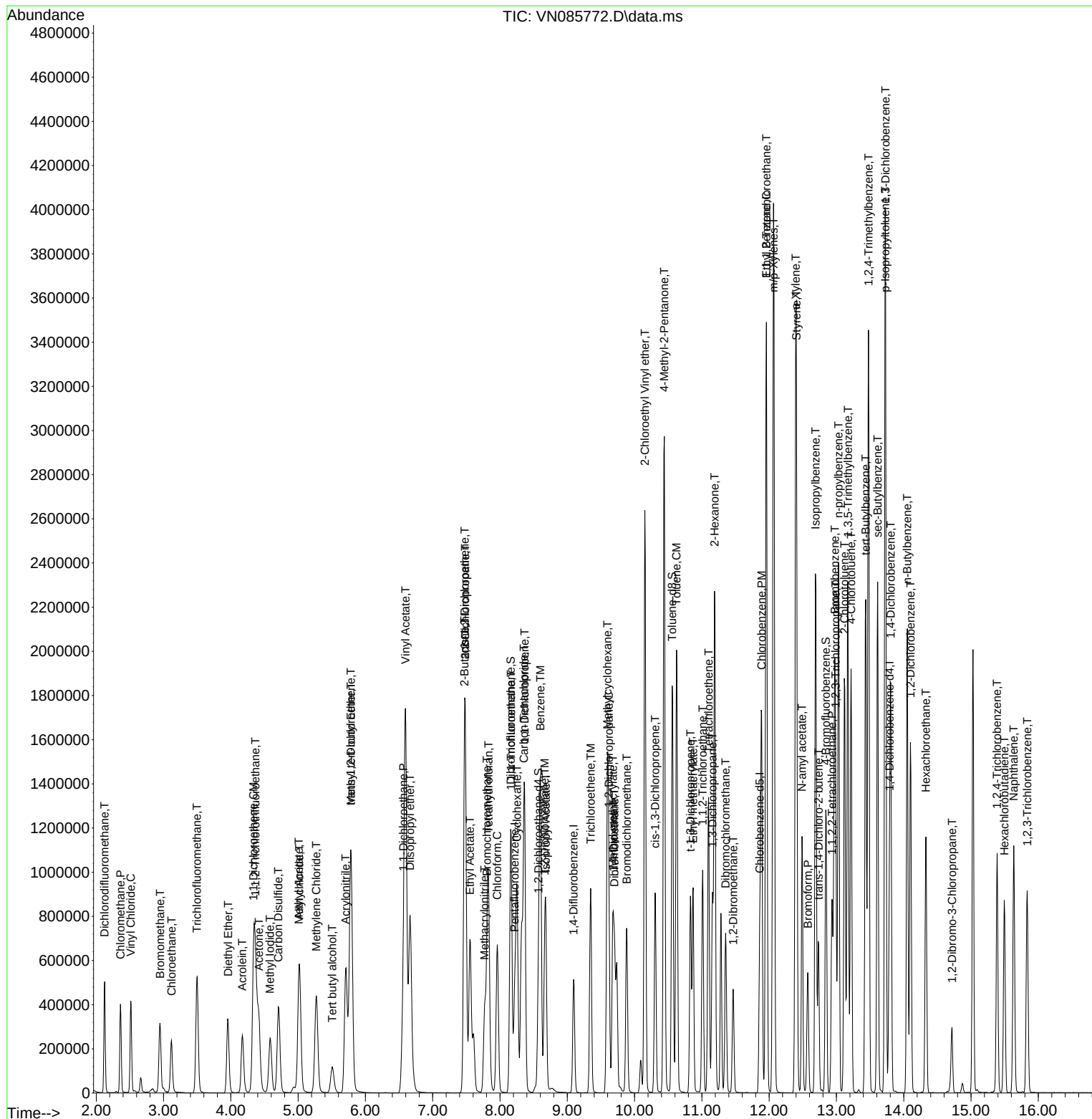
Quant Time: Feb 19 03:15:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Quant Title : SW846 8260

QLast Update : Wed Feb 19 03:03:15 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085773.D
 Acq On : 18 Feb 2025 11:32
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:16:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.218	168	322407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	526945	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	461653	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	227499	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	197726	47.304	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.600%		
35) Dibromofluoromethane	8.159	113	167050	48.447	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.900%		
50) Toluene-d8	10.559	98	632021	50.380	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.760%		
62) 4-Bromofluorobenzene	12.841	95	220691	53.393	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	106.780%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	215740	49.195	ug/l	100
3) Chloromethane	2.359	50	200592	45.584	ug/l	100
4) Vinyl Chloride	2.512	62	218675	46.933	ug/l	100
5) Bromomethane	2.953	94	136563	45.838	ug/l	100
6) Chloroethane	3.124	64	134303	43.517	ug/l	100
7) Trichlorofluoromethane	3.501	101	309133	45.825	ug/l	100
8) Diethyl Ether	3.959	74	106634	48.854	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	181996	46.673	ug/l	100
10) Methyl Iodide	4.583	142	232889	48.452	ug/l	100
11) Tert butyl alcohol	5.506	59	126538	246.136	ug/l	100
12) 1,1-Dichloroethene	4.336	96	170063	48.100	ug/l	100
13) Acrolein	4.177	56	203891	267.442	ug/l	100
14) Allyl chloride	5.018	41	222754	47.986	ug/l	100
15) Acrylonitrile	5.712	53	394641	236.130	ug/l	100
16) Acetone	4.418	43	297175	224.691	ug/l	100
17) Carbon Disulfide	4.712	76	474860	45.317	ug/l	100
18) Methyl Acetate	5.018	43	199458	43.846	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	534589	50.883	ug/l	100
20) Methylene Chloride	5.271	84	191098	44.929	ug/l	100
21) trans-1,2-Dichloroethene	5.783	96	176973	46.486	ug/l	100
22) Diisopropyl ether	6.665	45	529828	50.512	ug/l	100
23) Vinyl Acetate	6.594	43	1802342	251.727	ug/l	100
24) 1,1-Dichloroethane	6.565	63	333567	46.781	ug/l	100
25) 2-Butanone	7.471	43	474562	243.893	ug/l	100
26) 2,2-Dichloropropane	7.483	77	304840	48.079	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	213235	48.306	ug/l	100
28) Bromochloromethane	7.806	49	143276	48.888	ug/l	100
29) Tetrahydrofuran	7.830	42	315243	250.894	ug/l	100
30) Chloroform	7.959	83	344841	46.278	ug/l	100
31) Cyclohexane	8.253	56	277254	46.440	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	311700	47.030	ug/l	100
36) 1,1-Dichloropropene	8.365	75	242144	49.620	ug/l	100
37) Ethyl Acetate	7.553	43	197609	49.206	ug/l	100
38) Carbon Tetrachloride	8.353	117	278306	47.997	ug/l	100
39) Methylcyclohexane	9.594	83	259289	54.085	ug/l	100
40) Benzene	8.600	78	759363	48.551	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085773.D
 Acq On : 18 Feb 2025 11:32
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:16:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	113568	52.901	ug/l	100
42) 1,2-Dichloroethane	8.665	62	240115	47.132	ug/l	100
43) Isopropyl Acetate	8.683	43	335482	47.574	ug/l	100
44) Trichloroethene	9.347	130	178742	46.544	ug/l	100
45) 1,2-Dichloropropane	9.618	63	182649	48.379	ug/l	100
46) Dibromomethane	9.700	93	127850	48.010	ug/l	100
47) Bromodichloromethane	9.882	83	272912	47.901	ug/l	100
48) Methyl methacrylate	9.677	41	158375	53.102	ug/l	100
49) 1,4-Dioxane	9.688	88	60759	1071.301	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	997906	257.731	ug/l	100
52) Toluene	10.624	92	475069	51.816	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	274791	52.159	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	298359	51.646	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	174198	47.788	ug/l	100
56) Ethyl methacrylate	10.871	69	261825	49.960	ug/l	100
57) 1,3-Dichloropropane	11.159	76	297683	48.920	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	458983	230.774	ug/l	100
59) 2-Hexanone	11.188	43	719870	270.257	ug/l	100
60) Dibromochloromethane	11.353	129	211769	49.890	ug/l	100
61) 1,2-Dibromoethane	11.465	107	169422	49.191	ug/l	100
64) Tetrachloroethene	11.100	164	166710	46.613	ug/l	100
65) Chlorobenzene	11.882	112	512436	48.454	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	182537	48.020	ug/l	100
67) Ethyl Benzene	11.959	91	879040	53.062	ug/l	100
68) m/p-Xylenes	12.065	106	684377	108.757	ug/l	100
69) o-Xylene	12.394	106	324948	54.342	ug/l	100
70) Styrene	12.406	104	555269	49.909	ug/l	100
71) Bromoform	12.570	173	139895	49.528	ug/l #	100
73) Isopropylbenzene	12.688	105	817980	52.482	ug/l	100
74) N-amyl acetate	12.488	43	282288	51.360	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	239463	44.649	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	215451m	43.108	ug/l	100
77) Bromobenzene	12.976	156	205754	48.863	ug/l	100
78) n-propylbenzene	13.029	91	968182	54.241	ug/l	100
79) 2-Chlorotoluene	13.118	91	595046	49.895	ug/l	100
80) 1,3,5-Trimethylbenzene	13.165	105	695205	54.757	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	90255	52.111	ug/l	100
82) 4-Chlorotoluene	13.218	91	604612	51.139	ug/l	100
83) tert-Butylbenzene	13.435	119	586493	54.933	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	700260	55.748	ug/l	100
85) sec-Butylbenzene	13.612	105	831143	55.099	ug/l	100
86) p-Isopropyltoluene	13.723	119	692641	50.103	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	372004	47.154	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	374700	46.340	ug/l	100
89) n-Butylbenzene	14.053	91	580445	54.197	ug/l	100
90) Hexachloroethane	14.329	117	133438	46.708	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	358159	47.211	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.712	75	43935	44.611	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	182458	50.473	ug/l	100
94) Hexachlorobutadiene	15.494	225	96444	43.899	ug/l	100
95) Naphthalene	15.635	128	528627	53.265	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	179544	49.473	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085773.D
Acq On : 18 Feb 2025 11:32
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:16:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration

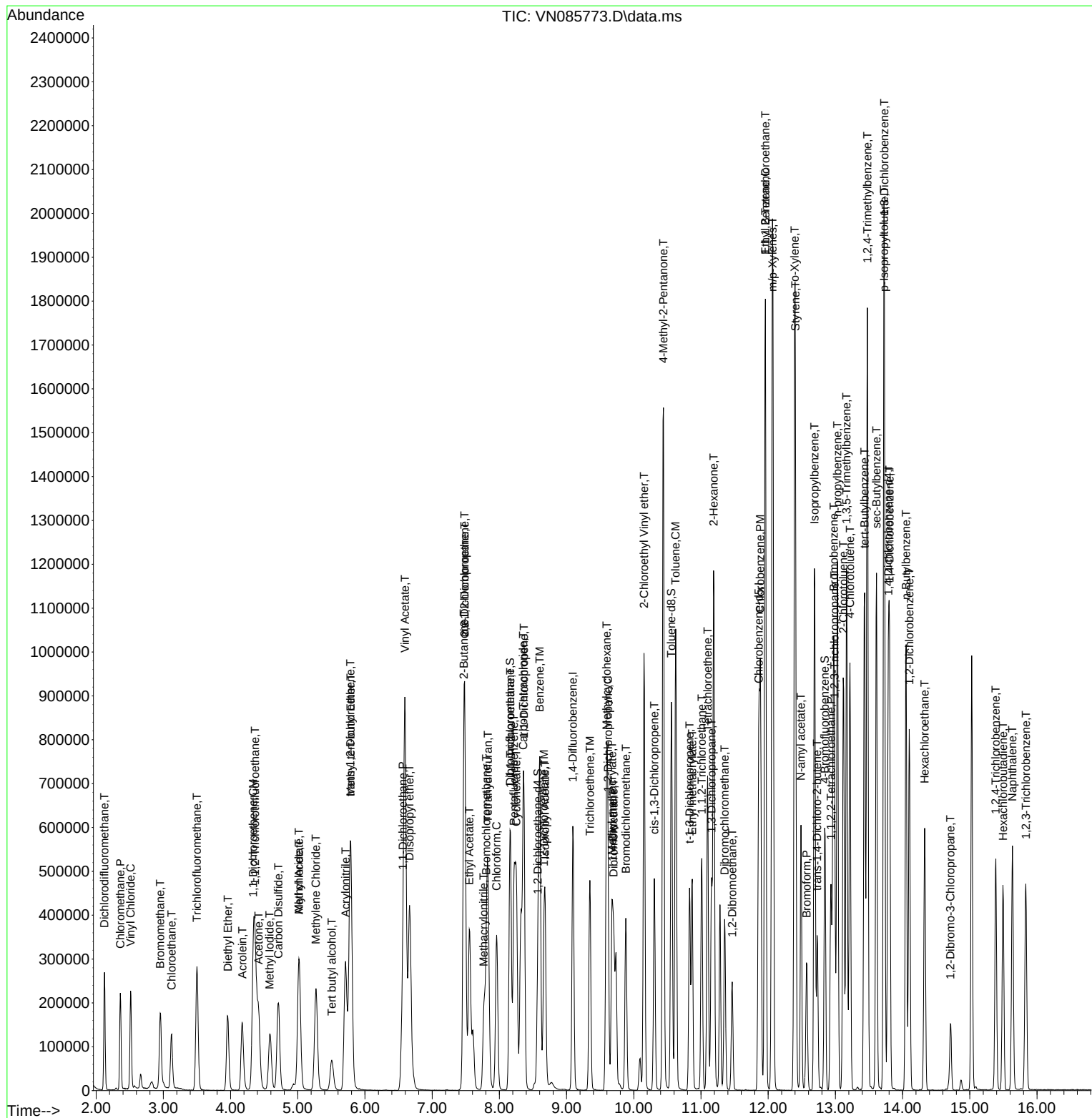
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085775.D
 Acq On : 18 Feb 2025 12:20
 Operator : JC\MD
 Sample : VSTDIC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Quant Time: Feb 19 03:17:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
 Supervised By :Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.218	168	235331	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	397776	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	339681	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	151740	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	27654	9.064	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	18.120%#		
35) Dibromofluoromethane	8.159	113	23353	8.972	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	17.940%#		
50) Toluene-d8	10.565	98	80889	8.542	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	17.080%#		
62) 4-Bromofluorobenzene	12.841	95	25697	8.236	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	16.480%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	36657	11.452	ug/l	96
3) Chloromethane	2.359	50	34946	10.880	ug/l	97
4) Vinyl Chloride	2.518	62	37462	11.015	ug/l	99
5) Bromomethane	2.965	94	25562	11.755	ug/l	100
6) Chloroethane	3.124	64	24265	10.772	ug/l	95
7) Trichlorofluoromethane	3.500	101	53380	10.841	ug/l	99
8) Diethyl Ether	3.959	74	17236	10.819	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	31724	11.146	ug/l	96
10) Methyl Iodide	4.589	142	37913	10.806	ug/l	93
11) Tert butyl alcohol	5.506	59	21584	57.519	ug/l	99
12) 1,1-Dichloroethene	4.342	96	27815	10.778	ug/l	97
13) Acrolein	4.177	56	27644	49.677	ug/l	98
14) Allyl chloride	5.024	41	36624	10.809	ug/l	98
15) Acrylonitrile	5.718	53	65440	53.643	ug/l	99
16) Acetone	4.424	43	51172	53.007	ug/l	97
17) Carbon Disulfide	4.712	76	84915	11.102	ug/l	99
18) Methyl Acetate	5.024	43	37354	11.250	ug/l	98
19) Methyl tert-butyl Ether	5.788	73	80686	10.521	ug/l	96
20) Methylene Chloride	5.271	84	33412	10.762	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	29226	10.517	ug/l	91
22) Diisopropyl ether	6.671	45	83002	10.841	ug/l	95
23) Vinyl Acetate	6.600	43	279697m	53.519	ug/l	
24) 1,1-Dichloroethane	6.565	63	57247	10.999	ug/l	97
25) 2-Butanone	7.477	43	77791	54.772	ug/l	98
26) 2,2-Dichloropropane	7.482	77	50333	10.876	ug/l	98
27) cis-1,2-Dichloroethene	7.488	96	34806	10.802	ug/l	98
28) Bromochloromethane	7.812	49	16276	7.609	ug/l #	99
29) Tetrahydrofuran	7.835	42	50478	55.039	ug/l	98
30) Chloroform	7.959	83	59719	10.980	ug/l	96
31) Cyclohexane	8.253	56	45995	10.555	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	51254	10.595	ug/l	98
36) 1,1-Dichloropropene	8.365	75	38983	10.582	ug/l	99
37) Ethyl Acetate	7.553	43	30665	10.115	ug/l	96
38) Carbon Tetrachloride	8.353	117	46420	10.605	ug/l	97
39) Methylcyclohexane	9.594	83	35475	9.803	ug/l #	85
40) Benzene	8.606	78	124704	10.562	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085775.D
 Acq On : 18 Feb 2025 12:20
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:17:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Quant Title : SW846 8260

QLast Update : Wed Feb 19 03:03:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	16811	10.373	ug/l	99
42) 1,2-Dichloroethane	8.665	62	41912	10.898	ug/l	98
43) Isopropyl Acetate	8.682	43	60794	11.001	ug/l	95
44) Trichloroethene	9.347	130	30561	10.542	ug/l	88
45) 1,2-Dichloropropane	9.618	63	30619	10.744	ug/l	100
46) Dibromomethane	9.706	93	21085	10.489	ug/l	98
47) Bromodichloromethane	9.882	83	45413	10.559	ug/l	95
48) Methyl methacrylate	9.676	41	22058	9.798	ug/l	96
49) 1,4-Dioxane	9.688	88	8936	208.723	ug/l #	95
51) 4-Methyl-2-Pentanone	10.441	43	155789	53.302	ug/l	98
52) Toluene	10.623	92	73516	10.622	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	41230	10.367	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	46300	10.617	ug/l	95
55) 1,1,2-Trichloroethane	11.012	97	29408	10.687	ug/l	96
56) Ethyl methacrylate	10.871	69	35641	10.274	ug/l	99
57) 1,3-Dichloropropane	11.159	76	48905	10.647	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	67791	47.108	ug/l	97
59) 2-Hexanone	11.188	43	105782	52.609	ug/l	97
60) Dibromochloromethane	11.353	129	34267	10.694	ug/l	98
61) 1,2-Dibromoethane	11.465	107	28789	11.073	ug/l	97
64) Tetrachloroethene	11.100	164	28564	10.855	ug/l	92
65) Chlorobenzene	11.888	112	82365	10.585	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.953	131	30133	10.773	ug/l	99
67) Ethyl Benzene	11.959	91	124323	10.199	ug/l	98
68) m/p-Xylenes	12.065	106	98574	21.290	ug/l	98
69) o-Xylene	12.394	106	45263	10.287	ug/l	100
70) Styrene	12.406	104	72044	9.994	ug/l	98
71) Bromoform	12.576	173	21882	10.529	ug/l #	98
73) Isopropylbenzene	12.688	105	109944	10.576	ug/l	99
74) N-amyl acetate	12.488	43	38318	10.452	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	39575	11.063	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	34754m	10.425	ug/l	
77) Bromobenzene	12.976	156	31066	11.061	ug/l	98
78) n-propylbenzene	13.029	91	125206	10.517	ug/l	99
79) 2-Chlorotoluene	13.117	91	86237	10.841	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	90718	10.713	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	11901	10.302	ug/l	97
82) 4-Chlorotoluene	13.217	91	86106	10.919	ug/l	100
83) tert-Butylbenzene	13.435	119	73803	10.364	ug/l	96
84) 1,2,4-Trimethylbenzene	13.476	105	89125	10.638	ug/l	99
85) sec-Butylbenzene	13.611	105	107253	10.660	ug/l	99
86) p-Isopropyltoluene	13.723	119	84249	10.256	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	56944	10.822	ug/l	97
88) 1,4-Dichlorobenzene	13.806	146	57166	10.600	ug/l	99
89) n-Butylbenzene	14.053	91	70940	9.931	ug/l	96
90) Hexachloroethane	14.329	117	19282	10.119	ug/l	94
91) 1,2-Dichlorobenzene	14.100	146	53647	10.602	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	7223	10.996	ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	25090	10.406	ug/l	98
94) Hexachlorobutadiene	15.494	225	15278	10.426	ug/l	95
95) Naphthalene	15.635	128	65549	9.902	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	25612	10.581	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085775.D
Acq On : 18 Feb 2025 12:20
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:17:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

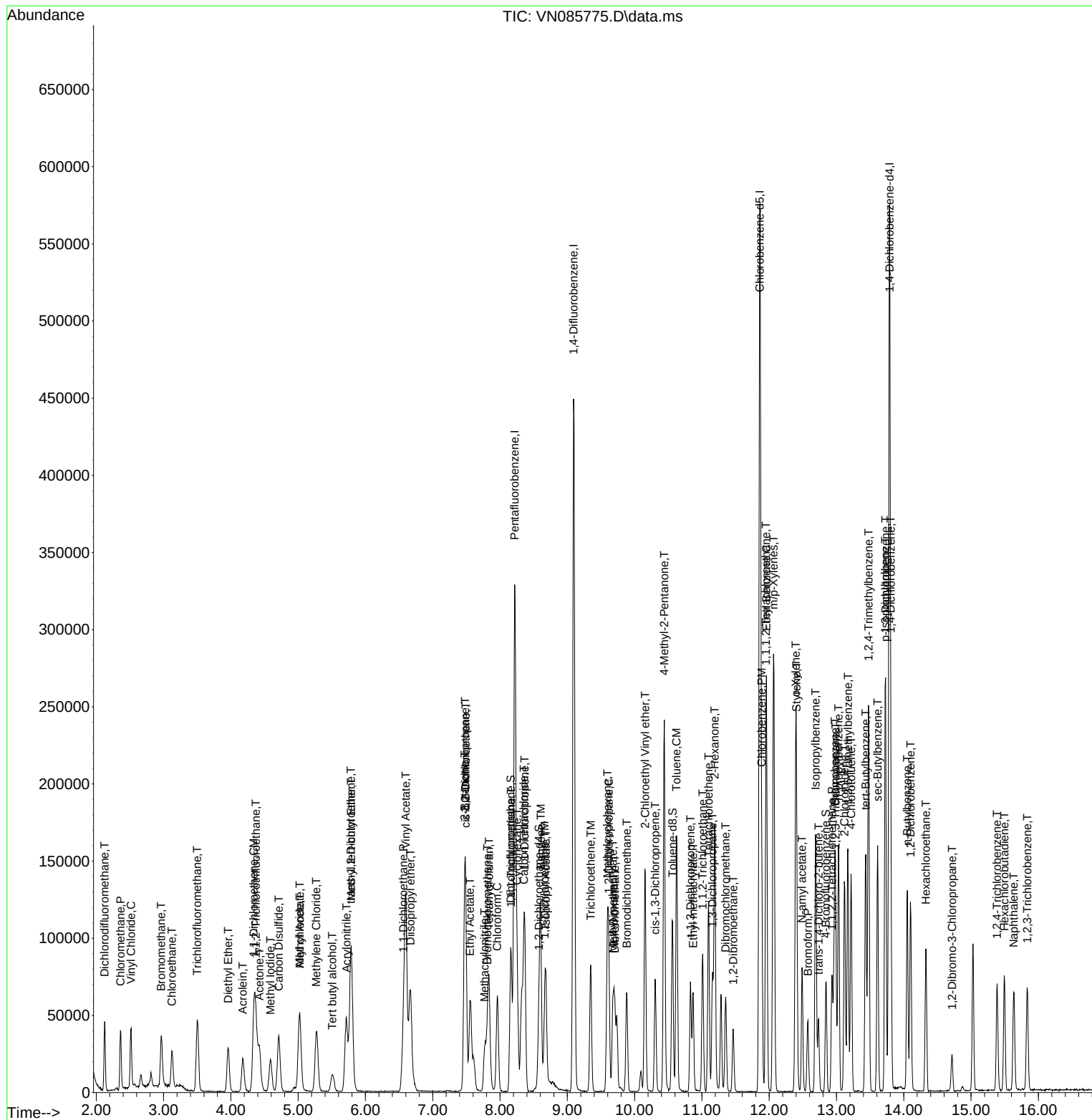
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\  
Data File : VN085775.D  
Acq On    : 18 Feb 2025  12:20  
Operator  : JC\MD  
Sample    : VSTDICC010  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 5      Sample Multiplier: 1
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:17:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085776.D
 Acq On : 18 Feb 2025 12:43
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:18:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.218	168	272461	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	471970	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	396883	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	179241	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	20906	5.918	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.840%#		
35) Dibromofluoromethane	8.165	113	16866	5.461	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.920%#		
50) Toluene-d8	10.559	98	57180	5.089	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.180%#		
62) 4-Bromofluorobenzene	12.841	95	17484	4.723	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.440%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	17717	4.781	ug/l	97
3) Chloromethane	2.359	50	18038	4.850	ug/l	98
4) Vinyl Chloride	2.512	62	19849	5.041	ug/l	93
5) Bromomethane	2.953	94	13523	5.371	ug/l	97
6) Chloroethane	3.118	64	12801	4.908	ug/l	93
7) Trichlorofluoromethane	3.500	101	29008	5.088	ug/l	92
8) Diethyl Ether	3.959	74	9618	5.214	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	17299	5.250	ug/l	98
10) Methyl Iodide	4.595	142	19721	4.855	ug/l #	88
11) Tert butyl alcohol	5.518	59	11272	25.945	ug/l #	94
12) 1,1-Dichloroethene	4.342	96	15564	5.209	ug/l	96
13) Acrolein	4.177	56	17171	26.652	ug/l	95
14) Allyl chloride	5.012	41	19720	5.027	ug/l	94
15) Acrylonitrile	5.718	53	35404	25.067	ug/l	98
16) Acetone	4.424	43	28402	25.411	ug/l	100
17) Carbon Disulfide	4.706	76	43711	4.936	ug/l	96
18) Methyl Acetate	5.018	43	18793	4.888	ug/l	98
19) Methyl tert-butyl Ether	5.783	73	42491	4.786	ug/l	98
20) Methylene Chloride	5.271	84	18139	5.046	ug/l #	88
21) trans-1,2-Dichloroethene	5.783	96	16330	5.076	ug/l	93
22) Diisopropyl ether	6.671	45	42703	4.817	ug/l	95
23) Vinyl Acetate	6.594	43	140821m	23.273	ug/l	
24) 1,1-Dichloroethane	6.565	63	30658	5.088	ug/l #	93
25) 2-Butanone	7.477	43	40795	24.809	ug/l	95
26) 2,2-Dichloropropane	7.488	77	26889	5.018	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	18673	5.006	ug/l	98
28) Bromochloromethane	7.806	49	15543	6.276	ug/l	91
29) Tetrahydrofuran	7.841	42	24907	23.457	ug/l	98
30) Chloroform	7.959	83	31702	5.034	ug/l	100
31) Cyclohexane	8.247	56	28784	5.705	ug/l	91
32) 1,1,1-Trichloroethane	8.165	97	28815	5.145	ug/l #	50
36) 1,1-Dichloropropene	8.365	75	20593	4.711	ug/l	98
37) Ethyl Acetate	7.553	43	17768	4.940	ug/l #	85
38) Carbon Tetrachloride	8.353	117	25734	4.955	ug/l	95
39) Methylcyclohexane	9.594	83	19113	4.451	ug/l	97
40) Benzene	8.600	78	67051	4.786	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085776.D
 Acq On : 18 Feb 2025 12:43
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:18:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Quant Title : SW846 8260

QLast Update : Wed Feb 19 03:03:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	9296	4.835	ug/l	98
42) 1,2-Dichloroethane	8.665	62	21886	4.796	ug/l	99
43) Isopropyl Acetate	8.682	43	35032	5.059	ug/l	92
44) Trichloroethene	9.347	130	16513	4.801	ug/l	96
45) 1,2-Dichloropropane	9.618	63	16228	4.799	ug/l	97
46) Dibromomethane	9.706	93	11544	4.840	ug/l	98
47) Bromodichloromethane	9.888	83	25152	4.929	ug/l	96
48) Methyl methacrylate	9.677	41	12200	4.567	ug/l	97
49) 1,4-Dioxane	9.688	88	4669	91.913	ug/l #	89
51) 4-Methyl-2-Pentanone	10.441	43	80666	23.260	ug/l	96
52) Toluene	10.629	92	38701	4.713	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	22215	4.708	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	24235	4.684	ug/l #	91
55) 1,1,2-Trichloroethane	11.012	97	16352	5.008	ug/l	94
56) Ethyl methacrylate	10.871	69	18032	4.704	ug/l	99
57) 1,3-Dichloropropane	11.159	76	26117	4.792	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	41567	14.159	ug/l	97
59) 2-Hexanone	11.188	43	53498	22.424	ug/l	94
60) Dibromochloromethane	11.353	129	18137	4.771	ug/l	98
61) 1,2-Dibromoethane	11.465	107	15097	4.894	ug/l	99
64) Tetrachloroethene	11.100	164	15504	5.043	ug/l	92
65) Chlorobenzene	11.888	112	45215	4.973	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	15949	4.880	ug/l	98
67) Ethyl Benzene	11.959	91	66079	4.640	ug/l	99
68) m/p-Xylenes	12.065	106	48412	8.949	ug/l	99
69) o-Xylene	12.394	106	23196	4.512	ug/l	100
70) Styrene	12.406	104	35138	4.557	ug/l	97
71) Bromoform	12.576	173	11934	4.915	ug/l #	94
73) Isopropylbenzene	12.694	105	54982	4.477	ug/l	99
74) N-amyl acetate	12.488	43	20017	4.623	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.929	83	21823	5.164	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	20813m	5.285	ug/l	
77) Bromobenzene	12.976	156	16215	4.888	ug/l	95
78) n-propylbenzene	13.029	91	62073	4.414	ug/l	99
79) 2-Chlorotoluene	13.117	91	43457	4.625	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	43342	4.333	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.729	75	6070	4.448	ug/l	90
82) 4-Chlorotoluene	13.217	91	43684	4.690	ug/l	100
83) tert-Butylbenzene	13.435	119	37975	4.515	ug/l	96
84) 1,2,4-Trimethylbenzene	13.476	105	42792	4.324	ug/l	97
85) sec-Butylbenzene	13.612	105	52659	4.431	ug/l	98
86) p-Isopropyltoluene	13.723	119	41010	4.632	ug/l	97
87) 1,3-Dichlorobenzene	13.729	146	30417	4.894	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	31847	4.999	ug/l	96
89) n-Butylbenzene	14.053	91	36427	4.317	ug/l	98
90) Hexachloroethane	14.329	117	11276	5.010	ug/l	99
91) 1,2-Dichlorobenzene	14.100	146	29424	4.923	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.711	75	3987	5.138	ug/l	89
93) 1,2,4-Trichlorobenzene	15.388	180	13040	4.578	ug/l	96
94) Hexachlorobutadiene	15.494	225	8623	4.982	ug/l	98
95) Naphthalene	15.635	128	33300	4.259	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	13188	4.612	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085776.D
Acq On : 18 Feb 2025 12:43
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:18:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration

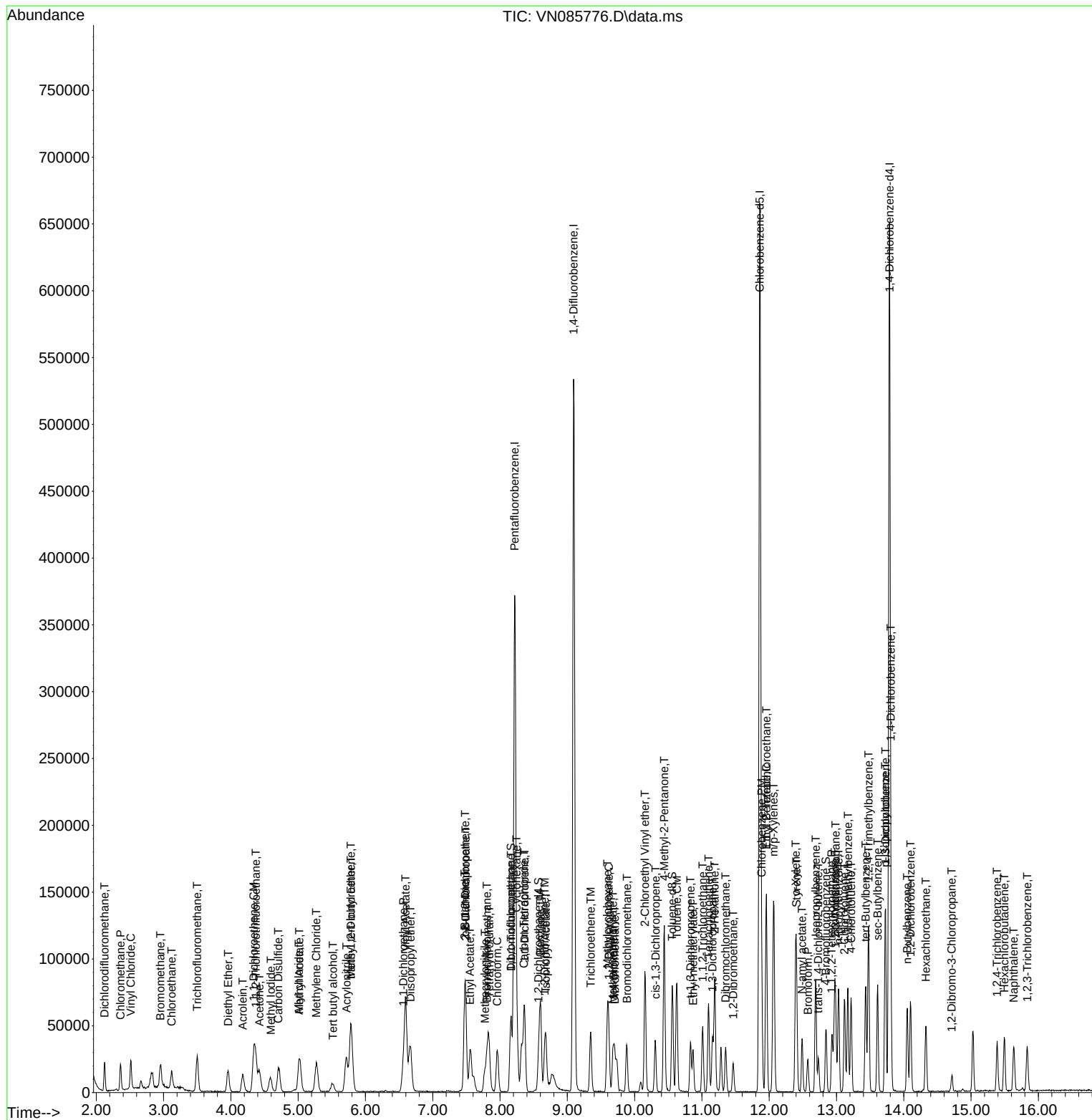
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085777.D
 Acq On : 18 Feb 2025 13:07
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:01:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 02:27:19 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	274051	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	476457	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	394997	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	152224	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	2.124	85	3620	0.971	ug/l	84
3) Chloromethane	2.359	50	4478	1.197	ug/l #	83
4) Vinyl Chloride	2.518	62	4169	1.053	ug/l #	80
6) Chloroethane	3.124	64	3201	1.220	ug/l	100
7) Trichlorofluoromethane	3.500	101	6048	1.055	ug/l #	71
8) Diethyl Ether	3.965	74	1716m	0.925	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.371	101	3034	0.915	ug/l	90
12) 1,1-Dichloroethene	4.341	96	2817	0.937	ug/l #	75
14) Allyl chloride	5.024	41	3802m	0.964	ug/l	
15) Acrylonitrile	5.718	53	6980	4.913	ug/l	98
16) Acetone	4.436	43	6230	5.542	ug/l #	73
17) Carbon Disulfide	4.712	76	10131	1.137	ug/l	98
18) Methyl Acetate	5.030	43	4677	1.210	ug/l #	52
19) Methyl tert-butyl Ether	5.794	73	7883	0.883	ug/l	97
20) Methylene Chloride	5.277	84	4036	1.116	ug/l #	84
21) trans-1,2-Dichloroethene	5.788	96	3415	1.055	ug/l	91
22) Diisopropyl ether	6.659	45	7268	0.815	ug/l #	80
23) Vinyl Acetate	6.600	43	27376m	4.498	ug/l	
24) 1,1-Dichloroethane	6.571	63	5881	0.970	ug/l #	82
25) 2-Butanone	7.482	43	7658	4.630	ug/l	92
26) 2,2-Dichloropropane	7.477	77	5170m	0.959	ug/l	
27) cis-1,2-Dichloroethene	7.488	96	3541	0.944	ug/l	92
28) Bromochloromethane	7.812	49	2649	1.063	ug/l #	98
29) Tetrahydrofuran	7.841	42	4567	4.276	ug/l	93
30) Chloroform	7.959	83	6416	1.013	ug/l	98
32) 1,1,1-Trichloroethane	8.159	97	5643	1.002	ug/l #	47
36) 1,1-Dichloropropene	8.365	75	4055	0.919	ug/l	93
37) Ethyl Acetate	7.553	43	3365	0.927	ug/l #	84
38) Carbon Tetrachloride	8.353	117	5079	0.969	ug/l #	94
39) Methylcyclohexane	9.594	83	3557	0.821	ug/l #	89
40) Benzene	8.606	78	13536	0.957	ug/l	96
41) Methacrylonitrile	7.771	41	1573	0.810	ug/l #	85
42) 1,2-Dichloroethane	8.671	62	4497	0.976	ug/l	88
43) Isopropyl Acetate	8.677	43	12901	1.494	ug/l #	73
44) Trichloroethene	9.347	130	3768	1.085	ug/l	98
45) 1,2-Dichloropropane	9.618	63	3235	0.948	ug/l	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085777.D
 Acq On : 18 Feb 2025 13:07
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:01:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 02:27:19 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.706	93	2304	0.957	ug/l	96
47) Bromodichloromethane	9.882	83	4879	0.947	ug/l #	92
48) Methyl methacrylate	9.676	41	2247	0.833	ug/l	92
49) 1,4-Dioxane	9.694	88	992	19.344	ug/l #	76
51) 4-Methyl-2-Pentanone	10.441	43	13832	3.951	ug/l	94
52) Toluene	10.629	92	6568	0.792	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	3884	0.815	ug/l	95
54) cis-1,3-Dichloropropene	10.312	75	4211	0.806	ug/l #	87
55) 1,1,2-Trichloroethane	11.012	97	3084	0.936	ug/l #	88
56) Ethyl methacrylate	10.859	69	2517	1.052	ug/l #	75
57) 1,3-Dichloropropane	11.153	76	5078	0.923	ug/l	93
58) 2-Chloroethyl Vinyl ether	10.153	63	6353	3.424	ug/l	99
59) 2-Hexanone	11.194	43	8780	3.646	ug/l	91
60) Dibromochloromethane	11.353	129	3380	0.881	ug/l	91
61) 1,2-Dibromoethane	11.465	107	2599	0.835	ug/l	89
64) Tetrachloroethene	11.094	164	3108	1.016	ug/l	87
65) Chlorobenzene	11.882	112	8761	0.968	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.959	131	3222	0.991	ug/l #	66
67) Ethyl Benzene	11.959	91	11246	0.793	ug/l	100
68) m/p-Xylenes	12.065	106	7606	1.413	ug/l	91
69) o-Xylene	12.394	106	3965	0.775	ug/l	95
70) Styrene	12.406	104	5877	1.257	ug/l	99
71) Bromoform	12.570	173	2161	0.894	ug/l #	87
73) Isopropylbenzene	12.694	105	8928	0.856	ug/l	95
74) N-amyl acetate	12.488	43	3263	0.887	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	12.935	83	3870	1.078	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	4032m	1.206	ug/l	
77) Bromobenzene	12.976	156	2624	0.931	ug/l	76
78) n-propylbenzene	13.029	91	9228	0.773	ug/l	99
79) 2-Chlorotoluene	13.123	91	7260	0.910	ug/l	95
80) 1,3,5-Trimethylbenzene	13.164	105	6185	0.728	ug/l	98
82) 4-Chlorotoluene	13.217	91	6700	0.847	ug/l	99
83) tert-Butylbenzene	13.435	119	5485	0.768	ug/l	93
84) 1,2,4-Trimethylbenzene	13.482	105	5595	0.666	ug/l	96
85) sec-Butylbenzene	13.611	105	7569	0.750	ug/l	99
86) p-Isopropyltoluene	13.723	119	5416	1.252	ug/l	95
87) 1,3-Dichlorobenzene	13.729	146	5321	1.008	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	5848m	1.081	ug/l	
89) n-Butylbenzene	14.047	91	6398	0.893	ug/l	91
90) Hexachloroethane	14.329	117	2153	1.126	ug/l	91
91) 1,2-Dichlorobenzene	14.100	146	5309	1.046	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.711	75	780	1.184	ug/l	93
93) 1,2,4-Trichlorobenzene	15.394	180	2525	1.044	ug/l	95
94) Hexachlorobutadiene	15.494	225	1976	1.344	ug/l	94
95) Naphthalene	15.635	128	7298	1.099	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.841	180	2791	1.149	ug/l	97

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

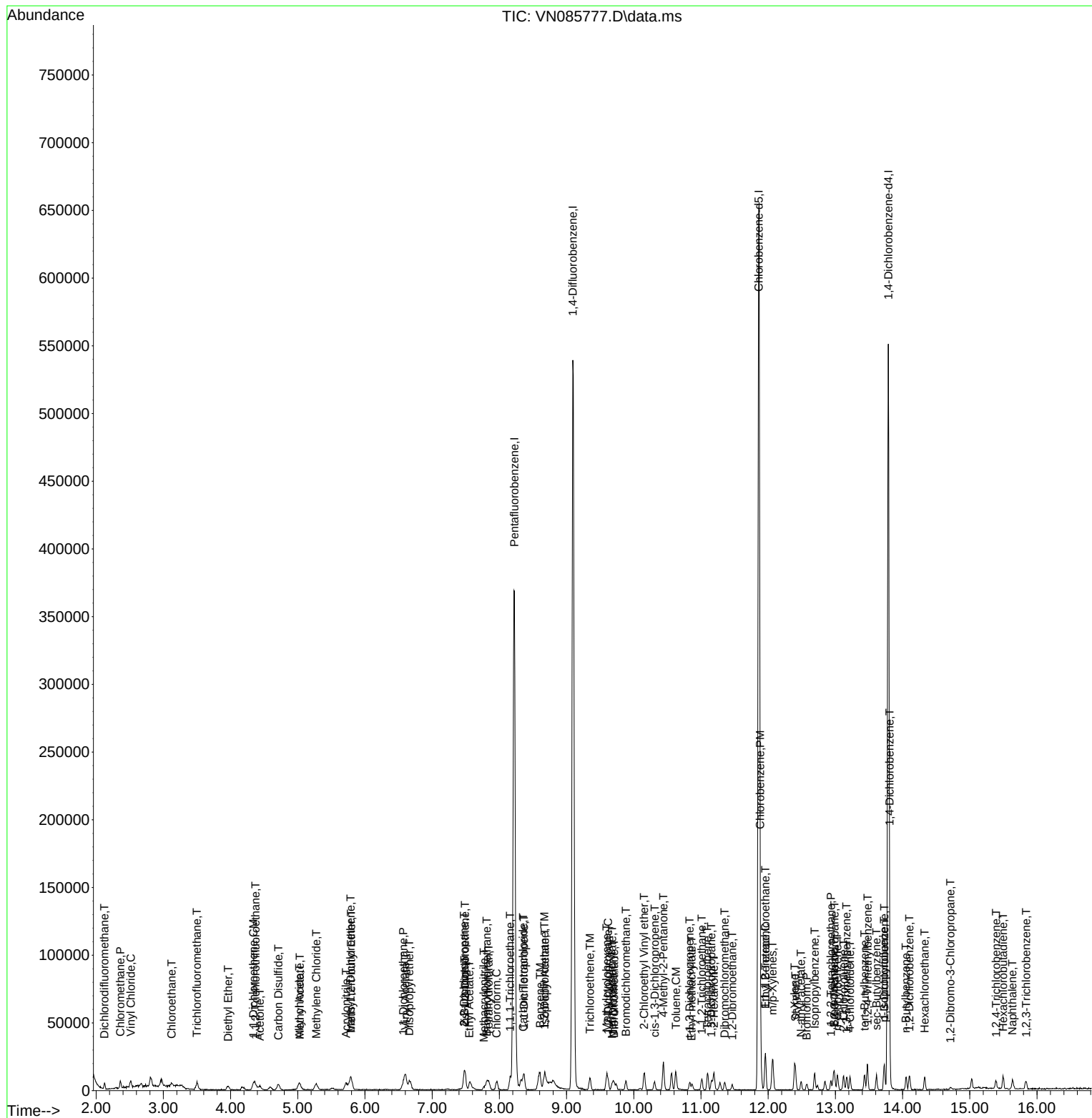
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\  
Data File : VN085777.D  
Acq On    : 18 Feb 2025  13:07  
Operator  : JC\MD  
Sample    : VSTDIC001  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 7      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:01:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 02:27:19 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085779.D
 Acq On : 18 Feb 2025 14:18
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Quant Time: Feb 19 03:19:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone

02/19/2025
 Supervised By :Mahesh
 Dadoda

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.218	168	309026	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	515996	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	448882	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	214863	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	71117	17.751	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	35.500%#
35) Dibromofluoromethane	8.159	113	60447	17.903	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	35.800%#
50) Toluene-d8	10.559	98	222839	18.140	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	36.280%#
62) 4-Bromofluorobenzene	12.847	95	71343	17.627	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	35.260%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	77669	18.478	ug/l	96
3) Chloromethane	2.360	50	74700	17.710	ug/l	98
4) Vinyl Chloride	2.512	62	83284	18.649	ug/l	96
5) Bromomethane	2.954	94	51068	17.884	ug/l	97
6) Chloroethane	3.118	64	54178	18.315	ug/l	98
7) Trichlorofluoromethane	3.501	101	124306	19.225	ug/l	100
8) Diethyl Ether	3.959	74	40213	19.221	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	74051	19.813	ug/l	98
10) Methyl Iodide	4.589	142	87963	19.093	ug/l	96
11) Tert butyl alcohol	5.512	59	45305	91.941	ug/l	99
12) 1,1-Dichloroethene	4.336	96	65660	19.375	ug/l	95
13) Acrolein	4.177	56	65092	89.078	ug/l	99
14) Allyl chloride	5.024	41	84778	19.054	ug/l	98
15) Acrylonitrile	5.712	53	158250	98.787	ug/l	99
16) Acetone	4.418	43	122455	96.596	ug/l	97
17) Carbon Disulfide	4.706	76	179885	17.910	ug/l	100
18) Methyl Acetate	5.012	43	77229	17.712	ug/l	99
19) Methyl tert-butyl Ether	5.795	73	205047	20.362	ug/l	97
20) Methylene Chloride	5.271	84	77308	18.963	ug/l	98
21) trans-1,2-Dichloroethene	5.777	96	69924	19.162	ug/l	91
22) Diisopropyl ether	6.665	45	212086	21.095	ug/l	99
23) Vinyl Acetate	6.600	43	695943	101.409	ug/l	99
24) 1,1-Dichloroethane	6.565	63	134620	19.697	ug/l	98
25) 2-Butanone	7.477	43	184659	99.012	ug/l	98
26) 2,2-Dichloropropane	7.489	77	120039	19.752	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	82886	19.590	ug/l	99
28) Bromochloromethane	7.806	49	49657	17.678	ug/l	95
29) Tetrahydrofuran	7.836	42	125831	104.482	ug/l	100
30) Chloroform	7.959	83	141059	19.750	ug/l	98
31) Cyclohexane	8.253	56	106009	18.525	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	125061	19.686	ug/l	98
36) 1,1-Dichloropropene	8.365	75	94481	19.772	ug/l	99
37) Ethyl Acetate	7.553	43	81716	20.780	ug/l	99
38) Carbon Tetrachloride	8.359	117	111137	19.574	ug/l	96
39) Methylcyclohexane	9.600	83	93454	19.907	ug/l	99
40) Benzene	8.600	78	304209	19.863	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085779.D
 Acq On : 18 Feb 2025 14:18
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

02/19/2025
 Supervised By :Mahesh
 Dadoda

Quant Time: Feb 19 03:19:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	43566	20.724	ug/l	98
42) 1,2-Dichloroethane	8.665	62	99651	19.975	ug/l	99
43) Isopropyl Acetate	8.683	43	138304	19.709	ug/l	99
44) Trichloroethene	9.347	130	71769	19.085	ug/l	97
45) 1,2-Dichloropropane	9.618	63	73743	19.947	ug/l	98
46) Dibromomethane	9.706	93	52878	20.278	ug/l	97
47) Bromodichloromethane	9.883	83	111634	20.010	ug/l	97
48) Methyl methacrylate	9.677	41	60690	20.781	ug/l	99
49) 1,4-Dioxane	9.688	88	21778	392.137	ug/l #	88
51) 4-Methyl-2-Pentanone	10.441	43	400235	105.563	ug/l	99
52) Toluene	10.624	92	184001	20.495	ug/l	98
53) t-1,3-Dichloropropene	10.830	75	104301	20.218	ug/l	99
54) cis-1,3-Dichloropropene	10.306	75	115451	20.409	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	71034	19.900	ug/l	97
56) Ethyl methacrylate	10.871	69	94315	20.003	ug/l	97
57) 1,3-Dichloropropane	11.159	76	119649	20.080	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	256540	146.107	ug/l	99
59) 2-Hexanone	11.188	43	278550	106.794	ug/l	99
60) Dibromochloromethane	11.353	129	83651	20.125	ug/l	100
61) 1,2-Dibromoethane	11.465	107	68205	20.223	ug/l	99
64) Tetrachloroethene	11.100	164	67288	19.350	ug/l	94
65) Chlorobenzene	11.888	112	200885	19.535	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	72064	19.497	ug/l	99
67) Ethyl Benzene	11.959	91	330056	20.490	ug/l	97
68) m/p-Xylenes	12.065	106	259251	42.371	ug/l	100
69) o-Xylene	12.394	106	118291	20.345	ug/l	96
70) Styrene	12.406	104	203369	20.270	ug/l	100
71) Bromoform	12.576	173	55518	20.214	ug/l #	96
73) Isopropylbenzene	12.688	105	299398	20.339	ug/l	100
74) N-amyl acetate	12.488	43	106973	20.608	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	99174	19.579	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	96439m	20.431	ug/l	
77) Bromobenzene	12.976	156	78068	19.630	ug/l	98
78) n-propylbenzene	13.029	91	351518	20.852	ug/l	100
79) 2-Chlorotoluene	13.124	91	230434	20.458	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	258212	21.534	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.729	75	31517	19.267	ug/l	92
82) 4-Chlorotoluene	13.218	91	227177	20.345	ug/l	100
83) tert-Butylbenzene	13.435	119	208096	20.637	ug/l	97
84) 1,2,4-Trimethylbenzene	13.476	105	259373	21.863	ug/l	99
85) sec-Butylbenzene	13.612	105	293653	20.612	ug/l	99
86) p-Isopropyltoluene	13.723	119	240984	19.772	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	143937	19.318	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	144744	18.954	ug/l	99
89) n-Butylbenzene	14.053	91	195221	19.300	ug/l	97
90) Hexachloroethane	14.329	117	50599	18.753	ug/l	98
91) 1,2-Dichlorobenzene	14.100	146	138931	19.390	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.718	75	16407	17.639	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	60520	17.726	ug/l	98
94) Hexachlorobutadiene	15.500	225	34783	16.763	ug/l	97
95) Naphthalene	15.635	128	156537	16.700	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	57998	16.921	ug/l	98

02/19/2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085779.D
Acq On : 18 Feb 2025 14:18
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 19 03:19:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Manual Integrations**APPROVED**

Reviewed By :John
Carlone

02/19/2025

Supervised By :Mahesh
Dadoda

02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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


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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\  
Data File : VN085779.D  
Acq On    : 18 Feb 2025  14:18  
Operator  : JC\MD  
Sample    : VSTDIC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 10   Sample Multiplier: 1
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

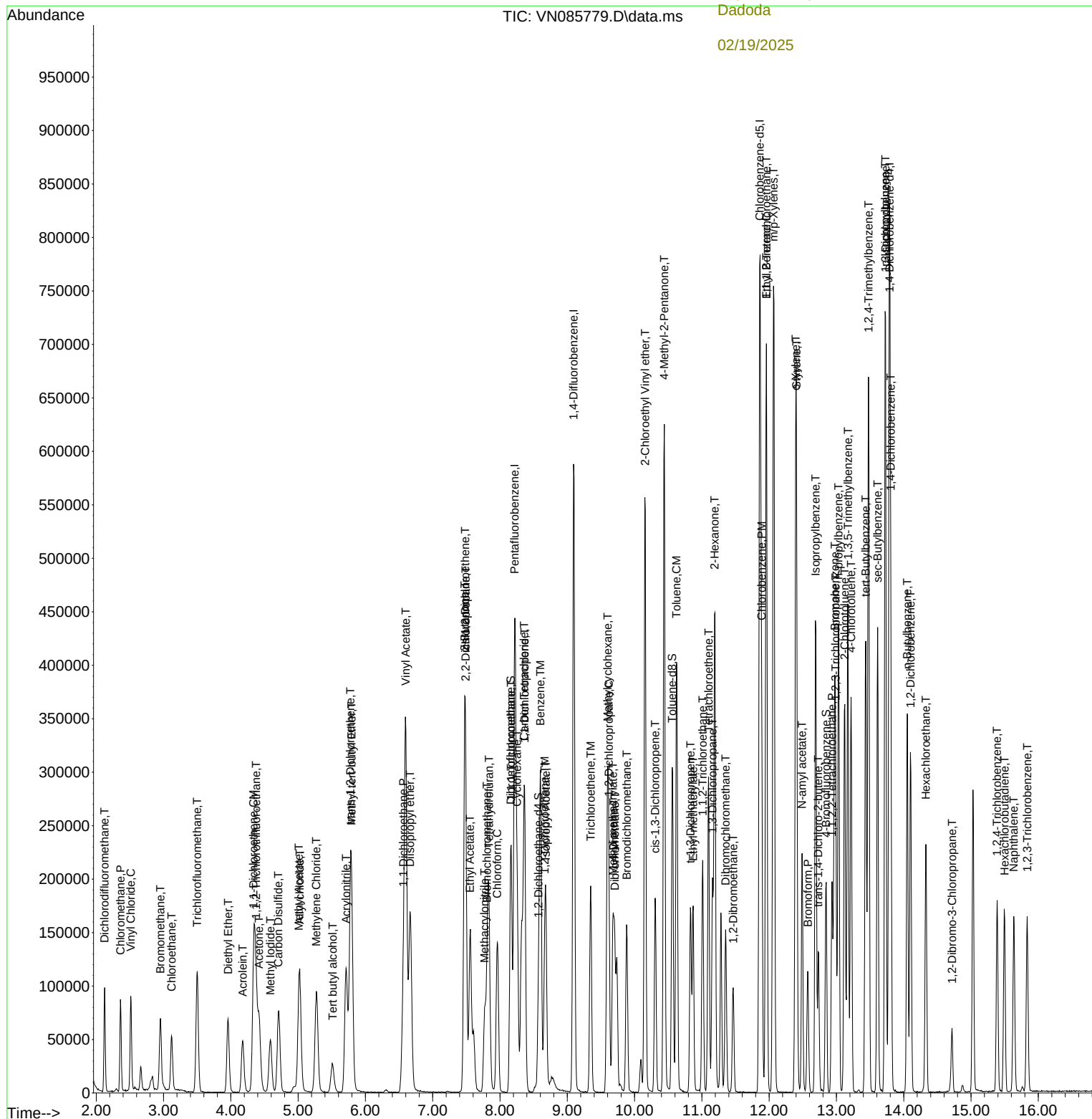
Quant Time: Feb 19 03:19:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
Carlone

02/19/2025
Supervised By :Mahesh
Dadoda

02/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085780.D
 Acq On : 18 Feb 2025 16:28
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN021825

Quant Time: Feb 19 05:09:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.218	168	314015	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	510764	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	456487	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	222696	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	204064	50.125	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.260%			
35) Dibromofluoromethane	8.165	113	170358	50.972	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.940%			
50) Toluene-d8	10.559	98	651463	53.575	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.140%			
62) 4-Bromofluorobenzene	12.841	95	227023	56.665	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 113.320%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	193054	45.199	ug/l	98
3) Chloromethane	2.359	50	181889	42.438	ug/l	98
4) Vinyl Chloride	2.512	62	197171	43.449	ug/l	97
5) Bromomethane	2.953	94	119789	41.282	ug/l	95
6) Chloroethane	3.118	64	122900	40.887	ug/l	95
7) Trichlorofluoromethane	3.500	101	279842	42.592	ug/l	98
8) Diethyl Ether	3.959	74	96415	45.353	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	165520	43.582	ug/l	98
10) Methyl Iodide	4.589	142	211559	45.190	ug/l	99
11) Tert butyl alcohol	5.506	59	118845	237.350	ug/l	99
12) 1,1-Dichloroethene	4.336	96	153815	44.667	ug/l	98
13) Acrolein	4.171	56	179054	241.140	ug/l	97
14) Allyl chloride	5.024	41	201442	44.555	ug/l	99
15) Acrylonitrile	5.712	53	378819	232.720	ug/l	99
16) Acetone	4.418	43	279680	217.115	ug/l	99
17) Carbon Disulfide	4.712	76	423019	41.449	ug/l	99
18) Methyl Acetate	5.018	43	194998	44.011	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	491324	48.014	ug/l	99
20) Methylene Chloride	5.277	84	173805	41.955	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	161205	43.475	ug/l	94
22) Diisopropyl ether	6.665	45	483670	47.344	ug/l	99
23) Vinyl Acetate	6.600	43	1698852	242.867	ug/l	99
24) 1,1-Dichloroethane	6.565	63	301375	43.396	ug/l	99
25) 2-Butanone	7.477	43	456416	240.836	ug/l	100
26) 2,2-Dichloropropane	7.482	77	274082	44.383	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	190393	44.284	ug/l	99
28) Bromochloromethane	7.812	49	142695	49.991	ug/l	97
29) Tetrahydrofuran	7.830	42	304613	248.913	ug/l	99
30) Chloroform	7.965	83	312547	43.065	ug/l	97
31) Cyclohexane	8.253	56	248433	42.725	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	281708	43.640	ug/l	99
36) 1,1-Dichloropropene	8.365	75	220335	46.581	ug/l	99
37) Ethyl Acetate	7.553	43	182091	46.779	ug/l	99
38) Carbon Tetrachloride	8.359	117	251949	44.828	ug/l	99
39) Methylcyclohexane	9.600	83	230541	49.612	ug/l	98
40) Benzene	8.600	78	682453	45.016	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085780.D
 Acq On : 18 Feb 2025 16:28
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN021825

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 05:09:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	105287	50.597	ug/l	99
42) 1,2-Dichloroethane	8.665	62	223798	45.321	ug/l	100
43) Isopropyl Acetate	8.682	43	317074	46.374	ug/l	99
44) Trichloroethene	9.347	130	161430	43.368	ug/l	99
45) 1,2-Dichloropropane	9.618	63	165383	45.194	ug/l	99
46) Dibromomethane	9.700	93	118394	45.867	ug/l	98
47) Bromodichloromethane	9.882	83	245433	44.443	ug/l	96
48) Methyl methacrylate	9.676	41	149072	51.566	ug/l	99
49) 1,4-Dioxane	9.688	88	55529	1010.103	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	954888	254.433	ug/l	100
52) Toluene	10.623	92	429445	48.324	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	249572	48.873	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	269744	48.172	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	160020	45.289	ug/l	99
56) Ethyl methacrylate	10.871	69	243449	48.142	ug/l	99
57) 1,3-Dichloropropane	11.159	76	272817	46.254	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.153	63	565673	276.203	ug/l	99
59) 2-Hexanone	11.188	43	687507	266.284	ug/l	100
60) Dibromochloromethane	11.353	129	192169	46.707	ug/l	100
61) 1,2-Dibromoethane	11.465	107	157602	47.208	ug/l	99
64) Tetrachloroethene	11.100	164	148840	42.088	ug/l	98
65) Chlorobenzene	11.888	112	464545	44.422	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	163676	43.545	ug/l	100
67) Ethyl Benzene	11.959	91	797025	48.655	ug/l	99
68) m/p-Xylenes	12.065	106	619505	99.562	ug/l	100
69) o-Xylene	12.394	106	294679	49.837	ug/l	100
70) Styrene	12.406	104	498501	45.726	ug/l	99
71) Bromoform	12.576	173	130201	46.617	ug/l #	97
73) Isopropylbenzene	12.694	105	747608	49.002	ug/l	100
74) N-amyl acetate	12.488	43	265786	49.401	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	225776	43.005	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	227901m	46.070	ug/l	
77) Bromobenzene	12.976	156	185833	45.084	ug/l	98
78) n-propylbenzene	13.029	91	872362	49.927	ug/l	99
79) 2-Chlorotoluene	13.123	91	541105	46.350	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	622090	50.055	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	79943	47.152	ug/l	94
82) 4-Chlorotoluene	13.217	91	548585	47.401	ug/l	99
83) tert-Butylbenzene	13.435	119	521552	49.904	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	633621	51.531	ug/l	99
85) sec-Butylbenzene	13.612	105	737200	49.925	ug/l	100
86) p-Isopropyltoluene	13.723	119	617918	46.012	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	341228	44.186	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	338619	42.781	ug/l	100
89) n-Butylbenzene	14.053	91	513863	49.015	ug/l	98
90) Hexachloroethane	14.329	117	119768	42.828	ug/l	98
91) 1,2-Dichlorobenzene	14.100	146	325885	43.883	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	41836	43.396	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	161503	45.640	ug/l	99
94) Hexachlorobutadiene	15.494	225	84060	39.087	ug/l	99
95) Naphthalene	15.635	128	487372	50.167	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	158416	44.593	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085780.D
Acq On : 18 Feb 2025 16:28
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 05:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
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_N\Data\VN021825\
Data File : VN085780.D
Acq On : 18 Feb 2025 16:28
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

ICVVN021825

Manual Integrations

APPROVED

Reviewed By : John Carlone 02/19/2025

Supervised By : Mahesh Dadoda 02/19/2025

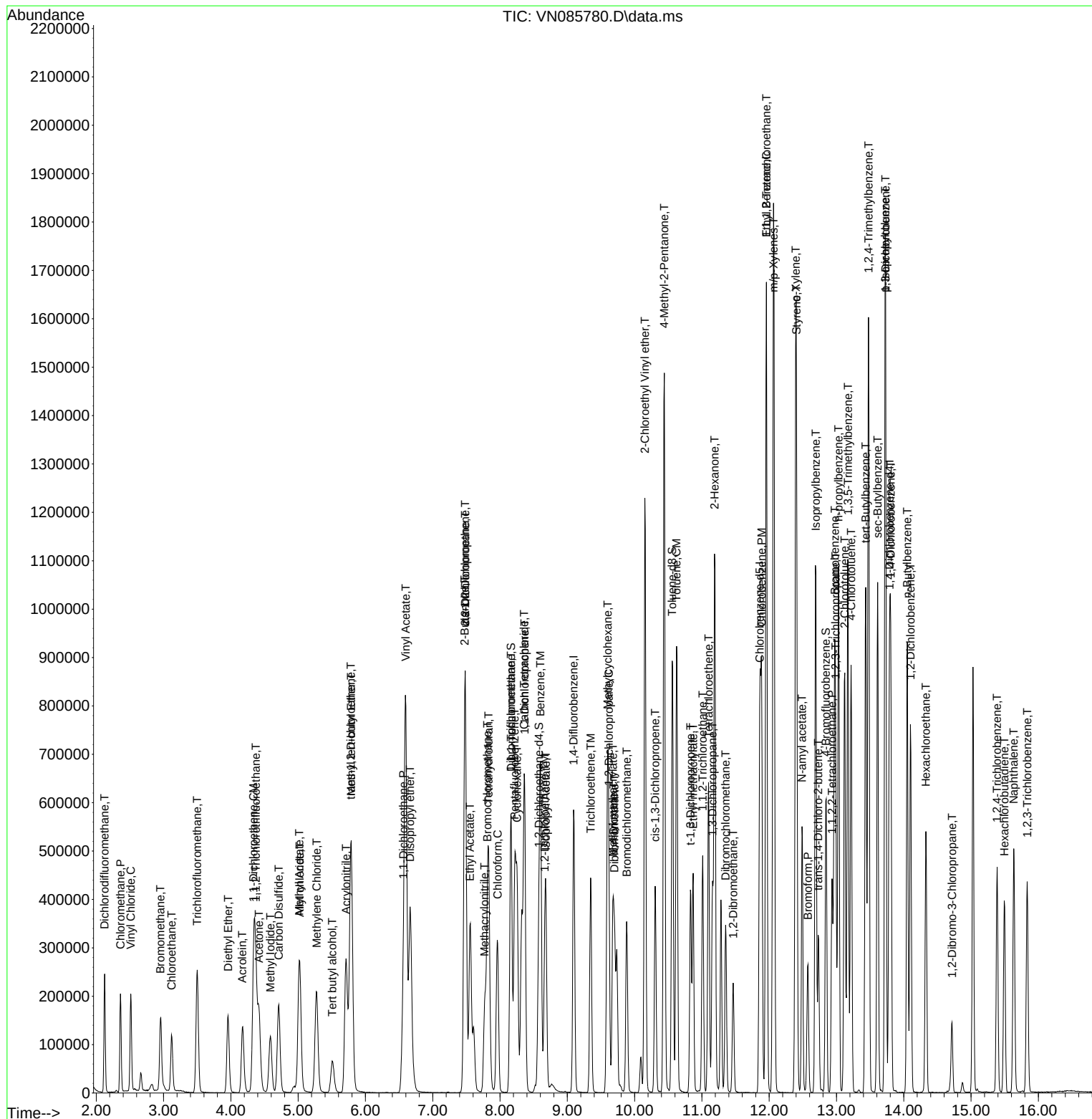
Quant Time: Feb 19 05:09:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Quant Title : SW846 8260

QLast Update : Wed Feb 19 03:43:32 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085780.D
 Acq On : 18 Feb 2025 16:28
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
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Quant Time: Feb 19 05:09:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 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	97	0.00
2 T	Dichlorodifluoromethane	0.680	0.615	9.6	89	0.00
3 P	Chloromethane	0.682	0.579	15.1	91	0.00
4 C	Vinyl Chloride	0.723	0.628	13.1#	90	0.00
5 T	Bromomethane	0.462	0.381	17.5	88	0.00
6 T	Chloroethane	0.479	0.391	18.4	92	0.00
7 T	Trichlorofluoromethane	1.046	0.891	14.8	91	0.00
8 T	Diethyl Ether	0.339	0.307	9.4	90	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.605	0.527	12.9	91	0.00
10 T	Methyl Iodide	0.745	0.674	9.5	91	0.00
11 T	Tert butyl alcohol	0.080	0.076	5.0	94	0.00
12 CM	1,1-Dichloroethene	0.548	0.490	10.6#	90	0.00
13 T	Acrolein	0.118	0.114	3.4	88	0.00
14 T	Allyl chloride	0.720	0.642	10.8	90	0.00
15 T	Acrylonitrile	0.259	0.241	6.9	96	0.00
16 T	Acetone	0.205	0.178	13.2	94	0.00
17 T	Carbon Disulfide	1.625	1.347	17.1	89	0.00
18 T	Methyl Acetate	0.705	0.621	11.9	98	0.00
19 T	Methyl tert-butyl Ether	1.629	1.565	3.9	92	0.00
20 T	Methylene Chloride	0.660	0.553	16.2	91	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.513	13.1	91	0.00
22 T	Diisopropyl ether	1.627	1.540	5.3	91	0.00
23 T	Vinyl Acetate	1.114	1.082	2.9	94	0.00
24 P	1,1-Dichloroethane	1.106	0.960	13.2	90	0.00
25 T	2-Butanone	0.302	0.291	3.6	96	0.00
26 T	2,2-Dichloropropane	0.983	0.873	11.2	90	0.00
27 T	cis-1,2-Dichloroethene	0.685	0.606	11.5	89	0.00
28 T	Bromochloromethane	0.454	0.454	0.0	100	0.00
29 T	Tetrahydrofuran	0.195	0.194	0.5	97	0.00
30 C	Chloroform	1.156	0.995	13.9#	91	0.00
31 T	Cyclohexane	0.926	0.791	14.6	90	0.00
32 T	1,1,1-Trichloroethane	1.028	0.897	12.7	90	0.00
33 S	1,2-Dichloroethane-d4	0.648	0.650	-0.3	103	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
35 S	Dibromofluoromethane	0.327	0.334	-2.1	102	0.00
36 T	1,1-Dichloropropene	0.463	0.431	6.9	91	0.00
37 T	Ethyl Acetate	0.381	0.357	6.3	92	0.00
38 T	Carbon Tetrachloride	0.550	0.493	10.4	91	0.00
39 T	Methylcyclohexane	0.455	0.451	0.9	89	0.00
40 TM	Benzene	1.484	1.336	10.0	90	0.00
41 T	Methacrylonitrile	0.204	0.206	-1.0	93	0.00
42 TM	1,2-Dichloroethane	0.483	0.438	9.3	93	0.00
43 T	Isopropyl Acetate	0.807	0.621	23.0	95	0.00
44 TM	Trichloroethene	0.364	0.316	13.2	90	0.00
45 C	1,2-Dichloropropane	0.358	0.324	9.5#	91	0.00
46 T	Dibromomethane	0.253	0.232	8.3	93	0.00
47 T	Bromodichloromethane	0.541	0.481	11.1	90	0.00
48 T	Methyl methacrylate	0.283	0.292	-3.2	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085780.D
 Acq On : 18 Feb 2025 16:28
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN021825

Quant Time: Feb 19 05:09:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 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	0.005	0.005	0.0	91	0.00
50 S	Toluene-d8	1.190	1.275	-7.1	103	0.00
51 T	4-Methyl-2-Pentanone	0.367	0.374	-1.9	96	0.00
52 CM	Toluene	0.870	0.841	3.3#	90	0.00
53 T	t-1,3-Dichloropropene	0.500	0.489	2.2	91	0.00
54 T	cis-1,3-Dichloropropene	0.548	0.528	3.6	90	0.00
55 T	1,1,2-Trichloroethane	0.346	0.313	9.5	92	0.00
56 T	Ethyl methacrylate	0.434	0.477	-9.9	93	0.00
57 T	1,3-Dichloropropane	0.577	0.534	7.5	92	0.00
58 T	2-Chloroethyl Vinyl ether	0.195	0.222	-13.8	123	0.00
59 T	2-Hexanone	0.253	0.269	-6.3	96	0.00
60 T	Dibromochloromethane	0.403	0.376	6.7	91	0.00
61 T	1,2-Dibromoethane	0.327	0.309	5.5	93	0.00
62 S	4-Bromofluorobenzene	0.392	0.444	-13.3	103	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64 T	Tetrachloroethene	0.387	0.326	15.8	89	0.00
65 PM	Chlorobenzene	1.145	1.018	11.1	91	0.00
66 T	1,1,1,2-Tetrachloroethane	0.412	0.359	12.9	90	0.00
67 C	Ethyl Benzene	1.794	1.746	2.7#	91	0.00
68 T	m/p-Xylenes	0.682	0.679	0.4	91	0.00
69 T	o-Xylene	0.648	0.646	0.3	91	0.00
70 T	Styrene	1.059	1.092	-3.1	90	0.00
71 P	Bromoform	0.306	0.285	6.9	93	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73 T	Isopropylbenzene	3.425	3.357	2.0	91	0.00
74 T	N-amyl acetate	1.208	1.193	1.2	94	0.00
75 P	1,1,2,2-Tetrachloroethane	1.179	1.014	14.0	94	0.00
76 T	1,2,3-Trichloropropane	1.111	1.023	7.9	106	0.00
77 T	Bromobenzene	0.925	0.834	9.8	90	0.00
78 T	n-propylbenzene	3.923	3.917	0.2	90	0.00
79 T	2-Chlorotoluene	2.621	2.430	7.3	91	0.00
80 T	1,3,5-Trimethylbenzene	2.790	2.793	-0.1	89	0.00
81 T	trans-1,4-Dichloro-2-butene	0.381	0.359	5.8	89	0.00
82 T	4-Chlorotoluene	2.598	2.463	5.2	91	0.00
83 T	tert-Butylbenzene	2.346	2.342	0.2	89	0.00
84 T	1,2,4-Trimethylbenzene	2.761	2.845	-3.0	90	0.00
85 T	sec-Butylbenzene	3.315	3.310	0.2	89	0.00
86 T	p-Isopropyltoluene	2.665	2.775	-4.1	89	0.00
87 T	1,3-Dichlorobenzene	1.734	1.532	11.6	92	0.00
88 T	1,4-Dichlorobenzene	1.777	1.521	14.4	90	0.00
89 T	n-Butylbenzene	2.354	2.307	2.0	89	0.00
90 T	Hexachloroethane	0.628	0.538	14.3	90	0.00
91 T	1,2-Dichlorobenzene	1.667	1.463	12.2	91	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.216	0.188	13.0	95	0.00
93 T	1,2,4-Trichlorobenzene	0.794	0.725	8.7	89	0.00
94 T	Hexachlorobutadiene	0.483	0.377	21.9	87	0.00
95 T	Naphthalene	2.181	2.189	-0.4	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085780.D
Acq On : 18 Feb 2025 16:28
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Quant Time: Feb 19 05:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
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	0.798	0.711	10.9	88	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085780.D
 Acq On : 18 Feb 2025 16:28
 Operator : JC\MD
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 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	97	0.00
2 T	Dichlorodifluoromethane	50.000	45.199	9.6	89	0.00
3 P	Chloromethane	50.000	42.438	15.1	91	0.00
4 C	Vinyl Chloride	50.000	43.449	13.1#	90	0.00
5 T	Bromomethane	50.000	41.282	17.4	88	0.00
6 T	Chloroethane	50.000	40.887	18.2	92	0.00
7 T	Trichlorofluoromethane	50.000	42.592	14.8	91	0.00
8 T	Diethyl Ether	50.000	45.353	9.3	90	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	43.582	12.8	91	0.00
10 T	Methyl Iodide	50.000	45.190	9.6	91	0.00
11 T	Tert butyl alcohol	250.000	237.350	5.1	94	0.00
12 CM	1,1-Dichloroethene	50.000	44.667	10.7#	90	0.00
13 T	Acrolein	250.000	241.140	3.5	88	0.00
14 T	Allyl chloride	50.000	44.555	10.9	90	0.00
15 T	Acrylonitrile	250.000	232.720	6.9	96	0.00
16 T	Acetone	250.000	217.115	13.2	94	0.00
17 T	Carbon Disulfide	50.000	41.449	17.1	89	0.00
18 T	Methyl Acetate	50.000	44.011	12.0	98	0.00
19 T	Methyl tert-butyl Ether	50.000	48.014	4.0	92	0.00
20 T	Methylene Chloride	50.000	41.955	16.1	91	0.00
21 T	trans-1,2-Dichloroethene	50.000	43.475	13.0	91	0.00
22 T	Diisopropyl ether	50.000	47.344	5.3	91	0.00
23 T	Vinyl Acetate	250.000	242.867	2.9	94	0.00
24 P	1,1-Dichloroethane	50.000	43.396	13.2	90	0.00
25 T	2-Butanone	250.000	240.836	3.7	96	0.00
26 T	2,2-Dichloropropane	50.000	44.383	11.2	90	0.00
27 T	cis-1,2-Dichloroethene	50.000	44.284	11.4	89	0.00
28 T	Bromochloromethane	50.000	49.991	0.0	100	0.00
29 T	Tetrahydrofuran	250.000	248.913	0.4	97	0.00
30 C	Chloroform	50.000	43.065	13.9#	91	0.00
31 T	Cyclohexane	50.000	42.725	14.5	90	0.00
32 T	1,1,1-Trichloroethane	50.000	43.640	12.7	90	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.125	-0.3	103	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	97	0.00
35 S	Dibromofluoromethane	50.000	50.972	-1.9	102	0.00
36 T	1,1-Dichloropropene	50.000	46.581	6.8	91	0.00
37 T	Ethyl Acetate	50.000	46.779	6.4	92	0.00
38 T	Carbon Tetrachloride	50.000	44.828	10.3	91	0.00
39 T	Methylcyclohexane	50.000	49.612	0.8	89	0.00
40 TM	Benzene	50.000	45.016	10.0	90	0.00
41 T	Methacrylonitrile	50.000	50.597	-1.2	93	0.00
42 TM	1,2-Dichloroethane	50.000	45.321	9.4	93	0.00
43 T	Isopropyl Acetate	50.000	46.374	7.3	95	0.00
44 TM	Trichloroethene	50.000	43.368	13.3	90	0.00
45 C	1,2-Dichloropropane	50.000	45.194	9.6#	91	0.00
46 T	Dibromomethane	50.000	45.867	8.3	93	0.00
47 T	Bromodichloromethane	50.000	44.443	11.1	90	0.00
48 T	Methyl methacrylate	50.000	51.566	-3.1	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085780.D
 Acq On : 18 Feb 2025 16:28
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN021825

Quant Time: Feb 19 05:09:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 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	1010.103	-1.0	91	0.00
50 S	Toluene-d8	50.000	53.575	-7.2	103	0.00
51 T	4-Methyl-2-Pentanone	250.000	254.433	-1.8	96	0.00
52 CM	Toluene	50.000	48.324	3.4#	90	0.00
53 T	t-1,3-Dichloropropene	50.000	48.873	2.3	91	0.00
54 T	cis-1,3-Dichloropropene	50.000	48.172	3.7	90	0.00
55 T	1,1,2-Trichloroethane	50.000	45.289	9.4	92	0.00
56 T	Ethyl methacrylate	50.000	48.142	3.7	93	0.00
57 T	1,3-Dichloropropane	50.000	46.254	7.5	92	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	276.203	-10.5	123	0.00
59 T	2-Hexanone	250.000	266.284	-6.5	96	0.00
60 T	Dibromochloromethane	50.000	46.707	6.6	91	0.00
61 T	1,2-Dibromoethane	50.000	47.208	5.6	93	0.00
62 S	4-Bromofluorobenzene	50.000	56.665	-13.3	103	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64 T	Tetrachloroethene	50.000	42.088	15.8	89	0.00
65 PM	Chlorobenzene	50.000	44.422	11.2	91	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	43.545	12.9	90	0.00
67 C	Ethyl Benzene	50.000	48.655	2.7#	91	0.00
68 T	m/p-Xylenes	100.000	99.562	0.4	91	0.00
69 T	o-Xylene	50.000	49.837	0.3	91	0.00
70 T	Styrene	50.000	45.726	8.5	90	0.00
71 P	Bromoform	50.000	46.617	6.8	93	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73 T	Isopropylbenzene	50.000	49.002	2.0	91	0.00
74 T	N-amyl acetate	50.000	49.401	1.2	94	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	43.005	14.0	94	0.00
76 T	1,2,3-Trichloropropane	50.000	46.070	7.9	106	0.00
77 T	Bromobenzene	50.000	45.084	9.8	90	0.00
78 T	n-propylbenzene	50.000	49.927	0.1	90	0.00
79 T	2-Chlorotoluene	50.000	46.350	7.3	91	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.055	-0.1	89	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	47.152	5.7	89	0.00
82 T	4-Chlorotoluene	50.000	47.401	5.2	91	0.00
83 T	tert-Butylbenzene	50.000	49.904	0.2	89	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.531	-3.1	90	0.00
85 T	sec-Butylbenzene	50.000	49.925	0.2	89	0.00
86 T	p-Isopropyltoluene	50.000	46.012	8.0	89	0.00
87 T	1,3-Dichlorobenzene	50.000	44.186	11.6	92	0.00
88 T	1,4-Dichlorobenzene	50.000	42.781	14.4	90	0.00
89 T	n-Butylbenzene	50.000	49.015	2.0	89	0.00
90 T	Hexachloroethane	50.000	42.828	14.3	90	0.00
91 T	1,2-Dichlorobenzene	50.000	43.883	12.2	91	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	43.396	13.2	95	0.00
93 T	1,2,4-Trichlorobenzene	50.000	45.640	8.7	89	0.00
94 T	Hexachlorobutadiene	50.000	39.087	21.8	87	0.00
95 T	Naphthalene	50.000	50.167	-0.3	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085780.D
Acq On : 18 Feb 2025 16:28
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Quant Time: Feb 19 05:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
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	44.593	10.8	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TECH05

Lab Code: CHEM Case No.: Q1405 SAS No.: Q1405 SDG No.: Q1405

Instrument ID: MSVOA_N Calibration Date/Time: 02/21/2025 14:43

Lab File ID: VN085802.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.680	0.644		-5.29	20
Chloromethane	0.682	0.617	0.1	-9.53	20
Vinyl Chloride	0.723	0.664		-8.16	20
Bromomethane	0.462	0.410		-11.26	20
Chloroethane	0.479	0.430		-10.23	20
Trichlorofluoromethane	1.046	0.976		-6.69	20
1,1,2-Trichlorotrifluoroethane	0.605	0.592		-2.15	20
1,1-Dichloroethene	0.548	0.517		-5.66	20
Acetone	0.205	0.199		-2.93	20
Carbon Disulfide	1.625	1.429		-12.06	20
Methyl tert-butyl Ether	1.629	1.642		0.8	20
Methyl Acetate	0.705	0.674		-4.4	20
Methylene Chloride	0.660	0.624		-5.45	20
trans-1,2-Dichloroethene	0.590	0.558		-5.42	20
1,1-Dichloroethane	1.106	1.065	0.1	-3.71	20
Cyclohexane	0.926	0.796		-14.04	20
2-Butanone	0.302	0.305		0.99	20
Carbon Tetrachloride	0.550	0.552		0.36	20
cis-1,2-Dichloroethene	0.685	0.667		-2.63	20
Bromochloromethane	0.454	0.512		12.77	20
Chloroform	1.156	1.134		-1.9	20
1,1,1-Trichloroethane	1.028	0.989		-3.79	20
Methylcyclohexane	0.455	0.449		-1.32	20
Benzene	1.484	1.526		2.83	20
1,2-Dichloroethane	0.483	0.498		3.11	20
Trichloroethene	0.364	0.351		-3.57	20
1,2-Dichloropropane	0.358	0.375		4.75	20
Bromodichloromethane	0.541	0.553		2.22	20
4-Methyl-2-Pentanone	0.367	0.417		13.62	20
Toluene	0.870	0.959		10.23	20
t-1,3-Dichloropropene	0.500	0.523		4.6	20
cis-1,3-Dichloropropene	0.548	0.577		5.29	20
1,1,2-Trichloroethane	0.346	0.367		6.07	20
2-Hexanone	0.253	0.297		17.39	20
Dibromochloromethane	0.403	0.438		8.69	20
1,2-Dibromoethane	0.327	0.349		6.73	20
Tetrachloroethene	0.387	0.370		-4.39	20
Chlorobenzene	1.145	1.092	0.3	-4.63	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TECH05
 Lab Code: CHEM Case No.: Q1405 SAS No.: Q1405 SDG No.: Q1405
 Instrument ID: MSVOA_N Calibration Date/Time: 02/21/2025 14:43
 Lab File ID: VN085802.D Init. Calib. Date(s): 02/18/2025 02/18/2025
 Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18
 GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.794	1.882		4.91	20
m/p-Xylenes	0.682	0.754		10.56	20
o-Xylene	0.648	0.689		6.33	20
Styrene	1.059	1.230		16.15	20
Bromoform	0.306	0.316	0.1	3.27	20
Isopropylbenzene	3.425	3.338		-2.54	20
1,1,2,2-Tetrachloroethane	1.179	1.061	0.3	-10.01	20
1,3-Dichlorobenzene	1.734	1.651		-4.79	20
1,4-Dichlorobenzene	1.777	1.617		-9	20
1,2-Dichlorobenzene	1.667	1.615		-3.12	20
1,2-Dibromo-3-Chloropropane	0.216	0.182		-15.74	20
1,2,4-Trichlorobenzene	0.794	0.730		-8.06	20
1,2,3-Trichlorobenzene	0.798	0.703		-11.9	20
1,2-Dichloroethane-d4	0.648	0.697		7.56	20
Dibromofluoromethane	0.327	0.373		14.07	20
Toluene-d8	1.190	1.395		17.23	20
4-Bromofluorobenzene	0.392	0.476		21.43	20

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
 Data File : VN085802.D
 Acq On : 21 Feb 2025 14:43
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/24/2025
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 02:33:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.218	168	267971	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	427963	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	396190	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	205820	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	186705	53.741	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.480%			
35) Dibromofluoromethane	8.159	113	159454	56.940	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.880%			
50) Toluene-d8	10.565	98	597021	58.597	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 117.200%#			
62) 4-Bromofluorobenzene	12.847	95	203507	60.623	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 121.240%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	172654	47.368	ug/l	98
3) Chloromethane	2.359	50	165234	45.176	ug/l	98
4) Vinyl Chloride	2.512	62	177799	45.912	ug/l	100
5) Bromomethane	2.954	94	109782	44.335	ug/l	94
6) Chloroethane	3.118	64	115236	44.924	ug/l	95
7) Trichlorofluoromethane	3.501	101	261456	46.631	ug/l	99
8) Diethyl Ether	3.954	74	85588	47.178	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.365	101	158697	48.965	ug/l	97
10) Methyl Iodide	4.589	142	190034	47.567	ug/l	97
11) Tert butyl alcohol	5.512	59	107978	252.701	ug/l	99
12) 1,1-Dichloroethene	4.342	96	138503	47.131	ug/l	97
13) Acrolein	4.171	56	192633	304.004	ug/l	97
14) Allyl chloride	5.024	41	175948	45.603	ug/l	94
15) Acrylonitrile	5.706	53	351259	252.867	ug/l	99
16) Acetone	4.418	43	266548	242.474	ug/l	95
17) Carbon Disulfide	4.712	76	382893	43.963	ug/l	98
18) Methyl Acetate	5.018	43	180680	47.786	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	439914	50.377	ug/l	100
20) Methylene Chloride	5.271	84	167319	47.330	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	149487	47.242	ug/l	97
22) Diisopropyl ether	6.665	45	454174	52.095	ug/l	97
23) Vinyl Acetate	6.600	43	1489624	249.547	ug/l	99
24) 1,1-Dichloroethane	6.565	63	285492	48.172	ug/l	98
25) 2-Butanone	7.477	43	408748	252.743	ug/l	98
26) 2,2-Dichloropropane	7.483	77	234255	44.451	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	178832	48.742	ug/l	99
28) Bromochloromethane	7.806	49	137276	56.357	ug/l	98
29) Tetrahydrofuran	7.830	42	282844	270.837	ug/l	98
30) Chloroform	7.965	83	303747	49.044	ug/l	98
31) Cyclohexane	8.253	56	213240	42.973	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	265052	48.115	ug/l	98
36) 1,1-Dichloropropene	8.365	75	205343	51.811	ug/l	100
37) Ethyl Acetate	7.553	43	168771	51.745	ug/l	99
38) Carbon Tetrachloride	8.359	117	236139	50.144	ug/l	99
39) Methylcyclohexane	9.600	83	192160	49.353	ug/l	96
40) Benzene	8.600	78	652933	51.401	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
 Data File : VN085802.D
 Acq On : 21 Feb 2025 14:43
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/24/2025
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 02:33:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	93474	53.611	ug/l	97
42) 1,2-Dichloroethane	8.665	62	213112	51.506	ug/l	100
43) Isopropyl Acetate	8.683	43	274170	47.875	ug/l	97
44) Trichloroethene	9.347	130	150036	48.106	ug/l	99
45) 1,2-Dichloropropane	9.618	63	160531	52.355	ug/l	99
46) Dibromomethane	9.706	93	112878	52.191	ug/l	99
47) Bromodichloromethane	9.883	83	236831	51.183	ug/l	98
48) Methyl methacrylate	9.677	41	129683	53.539	ug/l	97
49) 1,4-Dioxane	9.688	88	54107	1174.663	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	891792	283.595	ug/l	99
52) Toluene	10.624	92	410222	55.092	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	223961	52.343	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	247088	52.663	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	156900	52.997	ug/l	98
56) Ethyl methacrylate	10.871	69	215183	50.491	ug/l	99
57) 1,3-Dichloropropane	11.159	76	264256	53.470	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	535674	301.782	ug/l	99
59) 2-Hexanone	11.188	43	635767	293.887	ug/l	100
60) Dibromochloromethane	11.353	129	187317	54.336	ug/l	99
61) 1,2-Dibromoethane	11.465	107	149395	53.408	ug/l	99
64) Tetrachloroethene	11.100	164	146393	47.696	ug/l	98
65) Chlorobenzene	11.888	112	432697	47.674	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.953	131	161700	49.567	ug/l	99
67) Ethyl Benzene	11.959	91	745749	52.454	ug/l	99
68) m/p-Xylenes	12.065	106	597619	110.662	ug/l	99
69) o-Xylene	12.394	106	273073	53.212	ug/l	98
70) Styrene	12.406	104	487215	50.919	ug/l	100
71) Bromoform	12.576	173	125316	51.697	ug/l #	98
73) Isopropylbenzene	12.694	105	687117	48.729	ug/l	100
74) N-amyl acetate	12.488	43	238852	48.035	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	218392	45.009	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	197089m	43.108	ug/l	
77) Bromobenzene	12.976	156	181128	47.546	ug/l	99
78) n-propylbenzene	13.029	91	839429	51.982	ug/l	100
79) 2-Chlorotoluene	13.123	91	516214	47.844	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	605400	52.706	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	73439m	46.868	ug/l	
82) 4-Chlorotoluene	13.218	91	534375	49.959	ug/l	99
83) tert-Butylbenzene	13.435	119	484979	50.210	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	622967	54.819	ug/l	100
85) sec-Butylbenzene	13.612	105	690644	50.607	ug/l	99
86) p-Isopropyltoluene	13.723	119	582438	46.852	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	339898	47.622	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	332737	45.485	ug/l	100
89) n-Butylbenzene	14.053	91	474150	48.935	ug/l	97
90) Hexachloroethane	14.329	117	115608	44.730	ug/l	98
91) 1,2-Dichlorobenzene	14.100	146	332338	48.422	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	37518	42.108	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	150178	45.920	ug/l	99
94) Hexachlorobutadiene	15.494	225	79544	40.020	ug/l	99
95) Naphthalene	15.635	128	419261	46.695	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	144709	44.074	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085802.D
Acq On : 21 Feb 2025 14:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 02:33:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

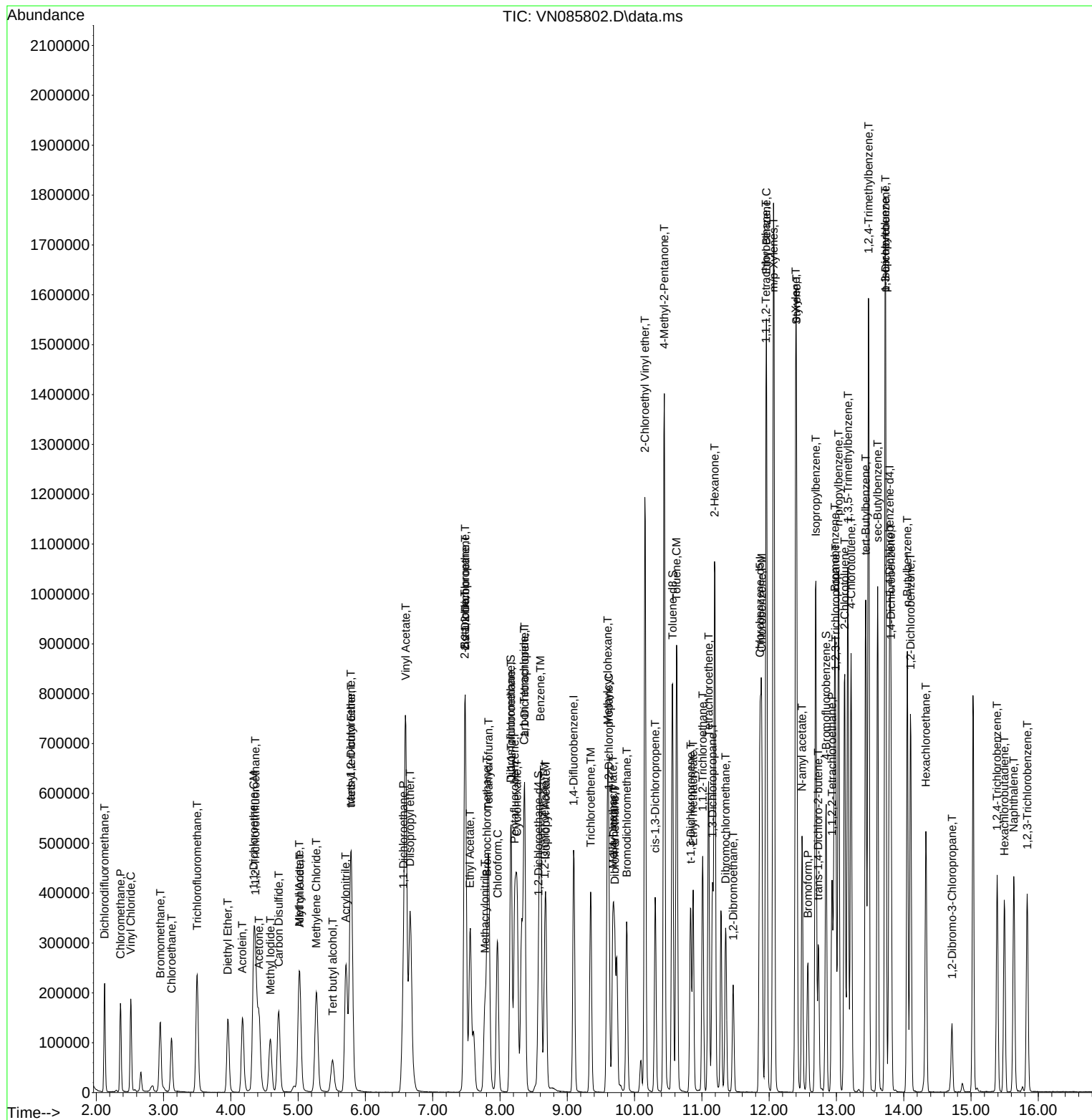
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085802.D
Acq On : 21 Feb 2025 14:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 02:33:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
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 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
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 Quant Title : SW846 8260
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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	83	0.00
2 T	Dichlorodifluoromethane	0.680	0.644	5.3	80	0.00
3 P	Chloromethane	0.682	0.617	9.5	82	0.00
4 C	Vinyl Chloride	0.723	0.664	8.2#	81	0.00
5 T	Bromomethane	0.462	0.410	11.3	80	0.00
6 T	Chloroethane	0.479	0.430	10.2	86	0.00
7 T	Trichlorofluoromethane	1.046	0.976	6.7	85	0.00
8 T	Diethyl Ether	0.339	0.319	5.9	80	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.605	0.592	2.1	87	0.00
10 T	Methyl Iodide	0.745	0.709	4.8	82	0.00
11 T	Tert butyl alcohol	0.080	0.081	-1.3	85	0.00
12 CM	1,1-Dichloroethene	0.548	0.517	5.7#	81	0.00
13 T	Acrolein	0.118	0.144	-22.0	94	0.00
14 T	Allyl chloride	0.720	0.657	8.7	79	0.00
15 T	Acrylonitrile	0.259	0.262	-1.2	89	0.00
16 T	Acetone	0.205	0.199	2.9	90	0.00
17 T	Carbon Disulfide	1.625	1.429	12.1	81	0.00
18 T	Methyl Acetate	0.705	0.674	4.4	91	0.00
19 T	Methyl tert-butyl Ether	1.629	1.642	-0.8	82	0.00
20 T	Methylene Chloride	0.660	0.624	5.5	88	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.558	5.4	84	0.00
22 T	Diisopropyl ether	1.627	1.695	-4.2	86	0.00
23 T	Vinyl Acetate	1.114	1.112	0.2	83	0.00
24 P	1,1-Dichloroethane	1.106	1.065	3.7	86	0.00
25 T	2-Butanone	0.302	0.305	-1.0	86	0.00
26 T	2,2-Dichloropropane	0.983	0.874	11.1	77	0.00
27 T	cis-1,2-Dichloroethene	0.685	0.667	2.6	84	0.00
28 T	Bromochloromethane	0.454	0.512	-12.8	96	0.00
29 T	Tetrahydrofuran	0.195	0.211	-8.2	90	0.00
30 C	Chloroform	1.156	1.134	1.9#	88	0.00
31 T	Cyclohexane	0.926	0.796	14.0	77	0.00
32 T	1,1,1-Trichloroethane	1.028	0.989	3.8	85	0.00
33 S	1,2-Dichloroethane-d4	0.648	0.697	-7.6	94	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	81	0.00
35 S	Dibromofluoromethane	0.327	0.373	-14.1	95	0.00
36 T	1,1-Dichloropropene	0.463	0.480	-3.7	85	0.00
37 T	Ethyl Acetate	0.381	0.394	-3.4	85	0.00
38 T	Carbon Tetrachloride	0.550	0.552	-0.4	85	0.00
39 T	Methylcyclohexane	0.455	0.449	1.3	74	0.00
40 TM	Benzene	1.484	1.526	-2.8	86	0.00
41 T	Methacrylonitrile	0.204	0.218	-6.9	82	0.01
42 TM	1,2-Dichloroethane	0.483	0.498	-3.1	89	0.00
43 T	Isopropyl Acetate	0.807	0.641	20.6	82	0.00
44 TM	Trichloroethene	0.364	0.351	3.6	84	0.00
45 C	1,2-Dichloropropane	0.358	0.375	-4.7#	88	0.00
46 T	Dibromomethane	0.253	0.264	-4.3	88	0.00
47 T	Bromodichloromethane	0.541	0.553	-2.2	87	0.00
48 T	Methyl methacrylate	0.283	0.303	-7.1	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
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 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
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 LabSampleId :
 VSTDCCC050

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 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	0.005	0.006	-20.0	89	0.00
50 S	Toluene-d8	1.190	1.395	-17.2	94	0.00
51 T	4-Methyl-2-Pentanone	0.367	0.417	-13.6	89	0.00
52 CM	Toluene	0.870	0.959	-10.2#	86	0.00
53 T	t-1,3-Dichloropropene	0.500	0.523	-4.6	82	0.00
54 T	cis-1,3-Dichloropropene	0.548	0.577	-5.3	83	0.00
55 T	1,1,2-Trichloroethane	0.346	0.367	-6.1	90	0.00
56 T	Ethyl methacrylate	0.434	0.503	-15.9	82	0.00
57 T	1,3-Dichloropropane	0.577	0.617	-6.9	89	0.00
58 T	2-Chloroethyl Vinyl ether	0.195	0.250	-28.2#	117	0.00
59 T	2-Hexanone	0.253	0.297	-17.4	88	0.00
60 T	Dibromochloromethane	0.403	0.438	-8.7	88	0.00
61 T	1,2-Dibromoethane	0.327	0.349	-6.7	88	0.00
62 S	4-Bromofluorobenzene	0.392	0.476	-21.4	92	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
64 T	Tetrachloroethene	0.387	0.370	4.4	88	0.00
65 PM	Chlorobenzene	1.145	1.092	4.6	84	0.00
66 T	1,1,1,2-Tetrachloroethane	0.412	0.408	1.0	89	0.00
67 C	Ethyl Benzene	1.794	1.882	-4.9#	85	0.00
68 T	m/p-Xylenes	0.682	0.754	-10.6	87	0.00
69 T	o-Xylene	0.648	0.689	-6.3	84	0.00
70 T	Styrene	1.059	1.230	-16.1	88	0.00
71 P	Bromoform	0.306	0.316	-3.3	90	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
73 T	Isopropylbenzene	3.425	3.338	2.5	84	0.00
74 T	N-amyl acetate	1.208	1.160	4.0	85	0.00
75 P	1,1,2,2-Tetrachloroethane	1.179	1.061	10.0	91	0.00
76 T	1,2,3-Trichloropropane	1.111	0.958	13.8	91	0.00
77 T	Bromobenzene	0.925	0.880	4.9	88	0.00
78 T	n-propylbenzene	3.923	4.078	-4.0	87	0.00
79 T	2-Chlorotoluene	2.621	2.508	4.3	87	0.00
80 T	1,3,5-Trimethylbenzene	2.790	2.941	-5.4	87	0.00
81 T	trans-1,4-Dichloro-2-butene	0.381	0.357	6.3	81	0.00
82 T	4-Chlorotoluene	2.598	2.596	0.1	88	0.00
83 T	tert-Butylbenzene	2.346	2.356	-0.4	83	0.00
84 T	1,2,4-Trimethylbenzene	2.761	3.027	-9.6	89	0.00
85 T	sec-Butylbenzene	3.315	3.356	-1.2	83	0.00
86 T	p-Isopropyltoluene	2.665	2.830	-6.2	84	0.00
87 T	1,3-Dichlorobenzene	1.734	1.651	4.8	91	0.00
88 T	1,4-Dichlorobenzene	1.777	1.617	9.0	89	0.00
89 T	n-Butylbenzene	2.354	2.304	2.1	82	0.00
90 T	Hexachloroethane	0.628	0.562	10.5	87	0.00
91 T	1,2-Dichlorobenzene	1.667	1.615	3.1	93	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.216	0.182	15.7	85	0.00
93 T	1,2,4-Trichlorobenzene	0.794	0.730	8.1	82	0.00
94 T	Hexachlorobutadiene	0.483	0.386	20.1	82	0.00
95 T	Naphthalene	2.181	2.037	6.6	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
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Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 22 02:33:54 2025
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Quant Title : SW846 8260
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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	0.798	0.703	11.9	81	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	83	0.00
2 T	Dichlorodifluoromethane	50.000	47.368	5.3	80	0.00
3 P	Chloromethane	50.000	45.176	9.6	82	0.00
4 C	Vinyl Chloride	50.000	45.912	8.2#	81	0.00
5 T	Bromomethane	50.000	44.335	11.3	80	0.00
6 T	Chloroethane	50.000	44.924	10.2	86	0.00
7 T	Trichlorofluoromethane	50.000	46.631	6.7	85	0.00
8 T	Diethyl Ether	50.000	47.178	5.6	80	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.965	2.1	87	0.00
10 T	Methyl Iodide	50.000	47.567	4.9	82	0.00
11 T	Tert butyl alcohol	250.000	252.701	-1.1	85	0.00
12 CM	1,1-Dichloroethene	50.000	47.131	5.7#	81	0.00
13 T	Acrolein	250.000	304.004	-21.6	94	0.00
14 T	Allyl chloride	50.000	45.603	8.8	79	0.00
15 T	Acrylonitrile	250.000	252.867	-1.1	89	0.00
16 T	Acetone	250.000	242.474	3.0	90	0.00
17 T	Carbon Disulfide	50.000	43.963	12.1	81	0.00
18 T	Methyl Acetate	50.000	47.786	4.4	91	0.00
19 T	Methyl tert-butyl Ether	50.000	50.377	-0.8	82	0.00
20 T	Methylene Chloride	50.000	47.330	5.3	88	0.00
21 T	trans-1,2-Dichloroethene	50.000	47.242	5.5	84	0.00
22 T	Diisopropyl ether	50.000	52.095	-4.2	86	0.00
23 T	Vinyl Acetate	250.000	249.547	0.2	83	0.00
24 P	1,1-Dichloroethane	50.000	48.172	3.7	86	0.00
25 T	2-Butanone	250.000	252.743	-1.1	86	0.00
26 T	2,2-Dichloropropane	50.000	44.451	11.1	77	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.742	2.5	84	0.00
28 T	Bromochloromethane	50.000	56.357	-12.7	96	0.00
29 T	Tetrahydrofuran	250.000	270.837	-8.3	90	0.00
30 C	Chloroform	50.000	49.044	1.9#	88	0.00
31 T	Cyclohexane	50.000	42.973	14.1	77	0.00
32 T	1,1,1-Trichloroethane	50.000	48.115	3.8	85	0.00
33 S	1,2-Dichloroethane-d4	50.000	53.741	-7.5	94	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	81	0.00
35 S	Dibromofluoromethane	50.000	56.940	-13.9	95	0.00
36 T	1,1-Dichloropropene	50.000	51.811	-3.6	85	0.00
37 T	Ethyl Acetate	50.000	51.745	-3.5	85	0.00
38 T	Carbon Tetrachloride	50.000	50.144	-0.3	85	0.00
39 T	Methylcyclohexane	50.000	49.353	1.3	74	0.00
40 TM	Benzene	50.000	51.401	-2.8	86	0.00
41 T	Methacrylonitrile	50.000	53.611	-7.2	82	0.01
42 TM	1,2-Dichloroethane	50.000	51.506	-3.0	89	0.00
43 T	Isopropyl Acetate	50.000	47.875	4.3	82	0.00
44 TM	Trichloroethene	50.000	48.106	3.8	84	0.00
45 C	1,2-Dichloropropane	50.000	52.355	-4.7#	88	0.00
46 T	Dibromomethane	50.000	52.191	-4.4	88	0.00
47 T	Bromodichloromethane	50.000	51.183	-2.4	87	0.00
48 T	Methyl methacrylate	50.000	53.539	-7.1	82	0.00

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1174.663	-17.5	89	0.00
50 S	Toluene-d8	50.000	58.597	-17.2	94	0.00
51 T	4-Methyl-2-Pentanone	250.000	283.595	-13.4	89	0.00
52 CM	Toluene	50.000	55.092	-10.2#	86	0.00
53 T	t-1,3-Dichloropropene	50.000	52.343	-4.7	82	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.663	-5.3	83	0.00
55 T	1,1,2-Trichloroethane	50.000	52.997	-6.0	90	0.00
56 T	Ethyl methacrylate	50.000	50.491	-1.0	82	0.00
57 T	1,3-Dichloropropane	50.000	53.470	-6.9	89	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	301.782	-20.7	117	0.00
59 T	2-Hexanone	250.000	293.887	-17.6	88	0.00
60 T	Dibromochloromethane	50.000	54.336	-8.7	88	0.00
61 T	1,2-Dibromoethane	50.000	53.408	-6.8	88	0.00
62 S	4-Bromofluorobenzene	50.000	60.623	-21.2	92	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	86	0.00
64 T	Tetrachloroethene	50.000	47.696	4.6	88	0.00
65 PM	Chlorobenzene	50.000	47.674	4.7	84	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.567	0.9	89	0.00
67 C	Ethyl Benzene	50.000	52.454	-4.9#	85	0.00
68 T	m/p-Xylenes	100.000	110.662	-10.7	87	0.00
69 T	o-Xylene	50.000	53.212	-6.4	84	0.00
70 T	Styrene	50.000	50.919	-1.8	88	0.00
71 P	Bromoform	50.000	51.697	-3.4	90	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	90	0.00
73 T	Isopropylbenzene	50.000	48.729	2.5	84	0.00
74 T	N-ethyl acetate	50.000	48.035	3.9	85	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	45.009	10.0	91	0.00
76 T	1,2,3-Trichloropropane	50.000	43.108	13.8	91	0.00
77 T	Bromobenzene	50.000	47.546	4.9	88	0.00
78 T	n-propylbenzene	50.000	51.982	-4.0	87	0.00
79 T	2-Chlorotoluene	50.000	47.844	4.3	87	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.706	-5.4	87	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	46.868	6.3	81	0.00
82 T	4-Chlorotoluene	50.000	49.959	0.1	88	0.00
83 T	tert-Butylbenzene	50.000	50.210	-0.4	83	0.00
84 T	1,2,4-Trimethylbenzene	50.000	54.819	-9.6	89	0.00
85 T	sec-Butylbenzene	50.000	50.607	-1.2	83	0.00
86 T	p-Isopropyltoluene	50.000	46.852	6.3	84	0.00
87 T	1,3-Dichlorobenzene	50.000	47.622	4.8	91	0.00
88 T	1,4-Dichlorobenzene	50.000	45.485	9.0	89	0.00
89 T	n-Butylbenzene	50.000	48.935	2.1	82	0.00
90 T	Hexachloroethane	50.000	44.730	10.5	87	0.00
91 T	1,2-Dichlorobenzene	50.000	48.422	3.2	93	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	42.108	15.8	85	0.00
93 T	1,2,4-Trichlorobenzene	50.000	45.920	8.2	82	0.00
94 T	Hexachlorobutadiene	50.000	40.020	20.0	82	0.00
95 T	Naphthalene	50.000	46.695	6.6	79	0.00

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Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	44.074	11.9	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TECH05

Lab Code: CHEM Case No.: Q1405 SAS No.: Q1405 SDG No.: Q1405

Instrument ID: MSVOA_N Calibration Date/Time: 02/24/2025 11:37

Lab File ID: VN085829.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.680	0.700		2.94	20
Chloromethane	0.682	0.660	0.1	-3.23	20
Vinyl Chloride	0.723	0.719		-0.55	20
Bromomethane	0.462	0.437		-5.41	20
Chloroethane	0.479	0.461		-3.76	20
Trichlorofluoromethane	1.046	1.056		0.96	20
1,1,2-Trichlorotrifluoroethane	0.605	0.643		6.28	20
1,1-Dichloroethene	0.548	0.569		3.83	20
Acetone	0.205	0.217		5.85	20
Carbon Disulfide	1.625	1.541		-5.17	20
Methyl tert-butyl Ether	1.629	1.821		11.73	20
Methyl Acetate	0.705	0.776		10.07	20
Methylene Chloride	0.660	0.670		1.51	20
trans-1,2-Dichloroethene	0.590	0.607		2.88	20
1,1-Dichloroethane	1.106	1.163	0.1	5.15	20
Cyclohexane	0.926	0.906		-2.16	20
2-Butanone	0.302	0.356		17.88	20
Carbon Tetrachloride	0.550	0.590		7.27	20
cis-1,2-Dichloroethene	0.685	0.716		4.53	20
Bromochloromethane	0.454	0.496		9.25	20
Chloroform	1.156	1.205		4.24	20
1,1,1-Trichloroethane	1.028	1.063		3.4	20
Methylcyclohexane	0.455	0.502		10.33	20
Benzene	1.484	1.612		8.63	20
1,2-Dichloroethane	0.483	0.508		5.18	20
Trichloroethene	0.364	0.369		1.37	20
1,2-Dichloropropane	0.358	0.395		10.34	20
Bromodichloromethane	0.541	0.579		7.02	20
4-Methyl-2-Pentanone	0.367	0.466		26.98	20
Toluene	0.870	1.009		15.98	20
t-1,3-Dichloropropene	0.500	0.566		13.2	20
cis-1,3-Dichloropropene	0.548	0.613		11.86	20
1,1,2-Trichloroethane	0.346	0.386		11.56	20
2-Hexanone	0.253	0.338		33.6	20
Dibromochloromethane	0.403	0.459		13.9	20
1,2-Dibromoethane	0.327	0.376		14.98	20
Tetrachloroethene	0.387	0.388		0.26	20
Chlorobenzene	1.145	1.187	0.3	3.67	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TECH05

Lab Code: CHEM Case No.: Q1405 SAS No.: Q1405 SDG No.: Q1405

Instrument ID: MSVOA_N Calibration Date/Time: 02/24/2025 11:37

Lab File ID: VN085829.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.794	2.058		14.72	20
m/p-Xylenes	0.682	0.815		19.5	20
o-Xylene	0.648	0.761		17.44	20
Styrene	1.059	1.326		25.21	20
Bromoform	0.306	0.351	0.1	14.71	20
Isopropylbenzene	3.425	3.702		8.09	20
1,1,2,2-Tetrachloroethane	1.179	1.192	0.3	1.1	20
1,3-Dichlorobenzene	1.734	1.758		1.38	20
1,4-Dichlorobenzene	1.777	1.724		-2.98	20
1,2-Dichlorobenzene	1.667	1.700		1.92	20
1,2-Dibromo-3-Chloropropane	0.216	0.219		1.39	20
1,2,4-Trichlorobenzene	0.794	0.808		1.76	20
1,2,3-Trichlorobenzene	0.798	0.802		0.5	20
1,2-Dichloroethane-d4	0.648	0.721		11.27	20
Dibromofluoromethane	0.327	0.384		17.43	20
Toluene-d8	1.190	1.428		20	20
4-Bromofluorobenzene	0.392	0.497		26.79	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085829.D
 Acq On : 24 Feb 2025 11:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:49:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.218	168	270391	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	444288	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	401749	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	208250	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	195044	55.639	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.280%			
35) Dibromofluoromethane	8.165	113	170583	58.676	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 117.360%			
50) Toluene-d8	10.565	98	634568	59.993	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 119.980%#			
62) 4-Bromofluorobenzene	12.847	95	220678	63.323	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 126.640%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	189227	51.450	ug/l	97
3) Chloromethane	2.359	50	178538	48.377	ug/l	99
4) Vinyl Chloride	2.512	62	194364	49.740	ug/l	99
5) Bromomethane	2.948	94	118119	47.274	ug/l	98
6) Chloroethane	3.118	64	124641	48.156	ug/l	94
7) Trichlorofluoromethane	3.495	101	285475	50.459	ug/l	100
8) Diethyl Ether	3.959	74	94914	51.850	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	173867	53.166	ug/l	97
10) Methyl Iodide	4.589	142	207114	51.378	ug/l	97
11) Tert butyl alcohol	5.512	59	125367	290.770	ug/l	100
12) 1,1-Dichloroethene	4.342	96	153800	51.868	ug/l	99
13) Acrolein	4.177	56	184907	289.200	ug/l	98
14) Allyl chloride	5.024	41	193524	49.710	ug/l	98
15) Acrylonitrile	5.718	53	408683	291.573	ug/l	99
16) Acetone	4.424	43	293349	264.466	ug/l	96
17) Carbon Disulfide	4.712	76	416649	47.411	ug/l	99
18) Methyl Acetate	5.018	43	209690	54.962	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	492246	55.865	ug/l	99
20) Methylene Chloride	5.271	84	181067	50.760	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	164073	51.388	ug/l	97
22) Diisopropyl ether	6.665	45	499088	56.735	ug/l	99
23) Vinyl Acetate	6.600	43	1697002	281.744	ug/l	98
24) 1,1-Dichloroethane	6.565	63	314583	52.606	ug/l	99
25) 2-Butanone	7.483	43	480626	294.527	ug/l	99
26) 2,2-Dichloropropane	7.488	77	274765	51.672	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	193487	52.265	ug/l	99
28) Bromochloromethane	7.812	49	134140	54.576	ug/l	97
29) Tetrahydrofuran	7.835	42	327656	310.939	ug/l	99
30) Chloroform	7.965	83	325765	52.128	ug/l	97
31) Cyclohexane	8.253	56	245063	48.945	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	287419	51.709	ug/l	97
36) 1,1-Dichloropropene	8.365	75	222336	54.037	ug/l	99
37) Ethyl Acetate	7.559	43	196298	57.974	ug/l	99
38) Carbon Tetrachloride	8.359	117	262305	53.654	ug/l	96
39) Methylcyclohexane	9.600	83	223189	55.217	ug/l	99
40) Benzene	8.606	78	716363	54.323	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085829.D
 Acq On : 24 Feb 2025 11:37
 Operator : JC\MD
 Sample : VSTDC0050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:49:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	105615	58.349	ug/l	96
42) 1,2-Dichloroethane	8.665	62	225691	52.542	ug/l	99
43) Isopropyl Acetate	8.682	43	329566	55.521	ug/l	99
44) Trichloroethene	9.347	130	164046	50.665	ug/l	95
45) 1,2-Dichloropropane	9.618	63	175530	55.144	ug/l	95
46) Dibromomethane	9.706	93	123339	54.933	ug/l	100
47) Bromodichloromethane	9.882	83	257086	53.518	ug/l	100
48) Methyl methacrylate	9.677	41	150912	60.014	ug/l	96
49) 1,4-Dioxane	9.688	88	58943	1232.633	ug/l	99
51) 4-Methyl-2-Pentanone	10.441	43	1035536	317.207	ug/l	99
52) Toluene	10.629	92	448464	58.015	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	251365	56.589	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	272160	55.876	ug/l	96
55) 1,1,2-Trichloroethane	11.012	97	171538	55.813	ug/l	99
56) Ethyl methacrylate	10.871	69	251054	55.991	ug/l	99
57) 1,3-Dichloropropane	11.159	76	291523	56.820	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	443855	255.958	ug/l	99
59) 2-Hexanone	11.194	43	751476	334.610	ug/l	98
60) Dibromochloromethane	11.353	129	204140	57.041	ug/l	100
61) 1,2-Dibromoethane	11.465	107	167175	57.568	ug/l	98
64) Tetrachloroethene	11.100	164	155718	50.032	ug/l	97
65) Chlorobenzene	11.888	112	477030	51.832	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	177191	53.564	ug/l	100
67) Ethyl Benzene	11.959	91	826725	57.345	ug/l	100
68) m/p-Xylenes	12.071	106	654939	119.597	ug/l	100
69) o-Xylene	12.394	106	305625	58.731	ug/l	100
70) Styrene	12.412	104	532745	54.496	ug/l	100
71) Bromoform	12.576	173	141096	57.401	ug/l #	97
73) Isopropylbenzene	12.694	105	770962	54.038	ug/l	100
74) N-amyl acetate	12.494	43	274861	54.632	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	248210	50.557	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	226972m	49.065	ug/l	
77) Bromobenzene	12.976	156	196411	50.956	ug/l	97
78) n-propylbenzene	13.035	91	924470	56.580	ug/l	100
79) 2-Chlorotoluene	13.123	91	568143	52.042	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	658723	56.679	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	89087	56.191	ug/l	98
82) 4-Chlorotoluene	13.217	91	579342	53.531	ug/l	100
83) tert-Butylbenzene	13.435	119	536211	54.866	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	671758	58.422	ug/l	100
85) sec-Butylbenzene	13.612	105	763617	55.301	ug/l	100
86) p-Isopropyltoluene	13.729	119	639122	50.471	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	366157	50.703	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	358924	48.492	ug/l	100
89) n-Butylbenzene	14.053	91	520397	53.081	ug/l	99
90) Hexachloroethane	14.329	117	129889	49.669	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	353920	50.964	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	45548	50.523	ug/l	99
93) 1,2,4-Trichlorobenzene	15.388	180	168238	50.842	ug/l	98
94) Hexachlorobutadiene	15.500	225	86598	43.061	ug/l	99
95) Naphthalene	15.641	128	491906	54.146	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	167060	50.288	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085829.D
Acq On : 24 Feb 2025 11:37
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:49:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

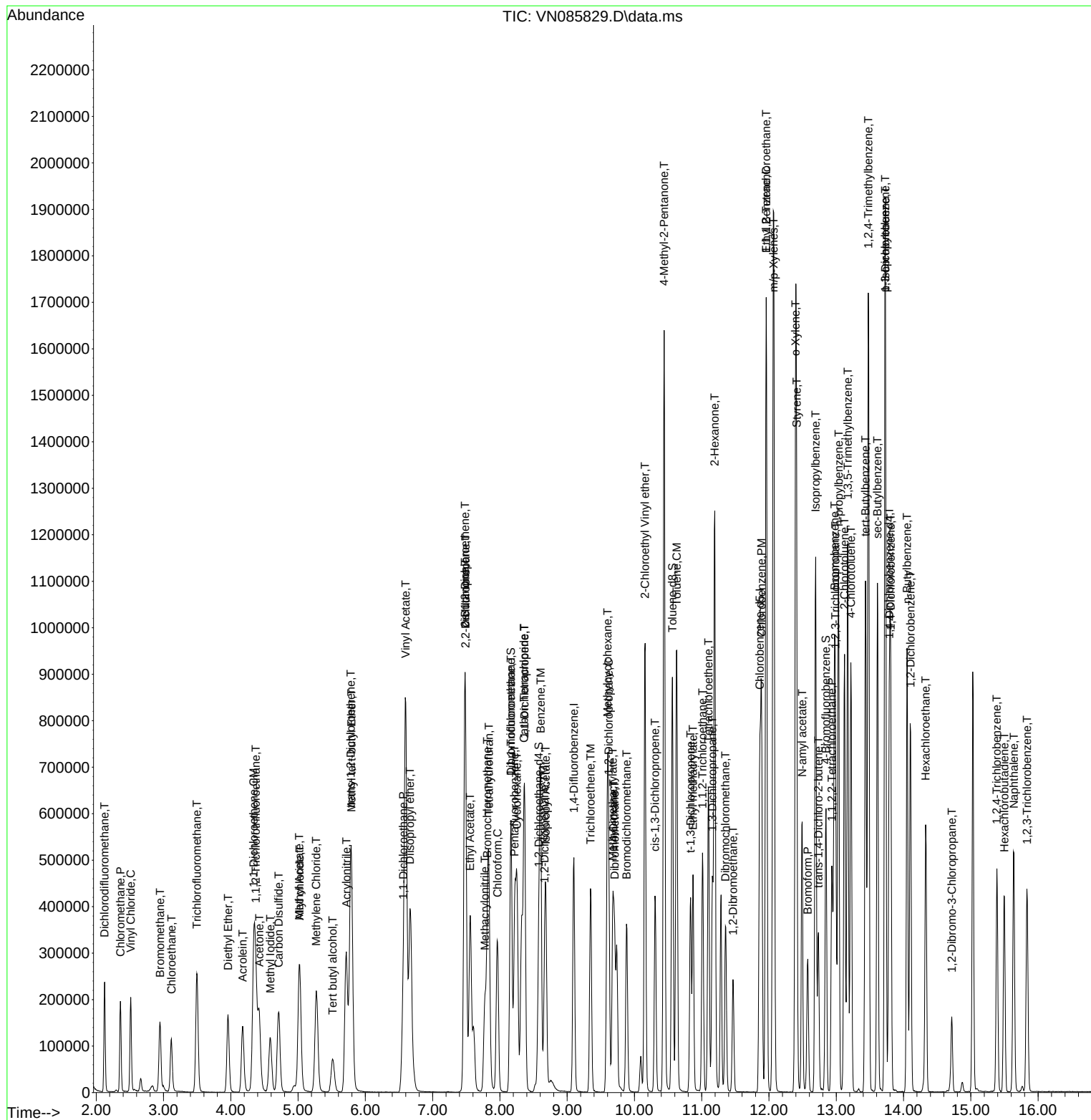
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085829.D
Acq On : 24 Feb 2025 11:37
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:49:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085829.D
 Acq On : 24 Feb 2025 11:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 25 01:49:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 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	84	0.00
2 T	Dichlorodifluoromethane	0.680	0.700	-2.9	88	0.00
3 P	Chloromethane	0.682	0.660	3.2	89	0.00
4 C	Vinyl Chloride	0.723	0.719	0.6#	89	0.00
5 T	Bromomethane	0.462	0.437	5.4	86	0.00
6 T	Chloroethane	0.479	0.461	3.8	93	0.00
7 T	Trichlorofluoromethane	1.046	1.056	-1.0	92	0.00
8 T	Diethyl Ether	0.339	0.351	-3.5	89	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.605	0.643	-6.3	96	0.00
10 T	Methyl Iodide	0.745	0.766	-2.8	89	0.00
11 T	Tert butyl alcohol	0.080	0.093	-16.2	99	0.00
12 CM	1,1-Dichloroethene	0.548	0.569	-3.8#	90	0.00
13 T	Acrolein	0.118	0.137	-16.1	91	0.00
14 T	Allyl chloride	0.720	0.716	0.6	87	0.00
15 T	Acrylonitrile	0.259	0.302	-16.6	104	0.00
16 T	Acetone	0.205	0.217	-5.9	99	0.00
17 T	Carbon Disulfide	1.625	1.541	5.2	88	0.00
18 T	Methyl Acetate	0.705	0.776	-10.1	105	0.00
19 T	Methyl tert-butyl Ether	1.629	1.820	-11.7	92	0.00
20 T	Methylene Chloride	0.660	0.670	-1.5	95	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.607	-2.9	93	0.00
22 T	Diisopropyl ether	1.627	1.846	-13.5	94	0.00
23 T	Vinyl Acetate	1.114	1.255	-12.7	94	0.00
24 P	1,1-Dichloroethane	1.106	1.163	-5.2	94	0.00
25 T	2-Butanone	0.302	0.356	-17.9	101	0.01
26 T	2,2-Dichloropropane	0.983	1.016	-3.4	90	0.00
27 T	cis-1,2-Dichloroethene	0.685	0.716	-4.5	91	0.00
28 T	Bromochloromethane	0.454	0.496	-9.3	94	0.00
29 T	Tetrahydrofuran	0.195	0.242	-24.1	104	0.00
30 C	Chloroform	1.156	1.205	-4.2#	94	0.00
31 T	Cyclohexane	0.926	0.906	2.2	88	0.00
32 T	1,1,1-Trichloroethane	1.028	1.063	-3.4	92	0.00
33 S	1,2-Dichloroethane-d4	0.648	0.721	-11.3	99	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
35 S	Dibromofluoromethane	0.327	0.384	-17.4	102	0.00
36 T	1,1-Dichloropropene	0.463	0.500	-8.0	92	0.00
37 T	Ethyl Acetate	0.381	0.442	-16.0	99	0.00
38 T	Carbon Tetrachloride	0.550	0.590	-7.3	94	0.00
39 T	Methylcyclohexane	0.455	0.502	-10.3	86	0.00
40 TM	Benzene	1.484	1.612	-8.6	94	0.00
41 T	Methacrylonitrile	0.204	0.238	-16.7	93	0.01
42 TM	1,2-Dichloroethane	0.483	0.508	-5.2	94	0.00
43 T	Isopropyl Acetate	0.807	0.742	8.1	98	0.00
44 TM	Trichloroethene	0.364	0.369	-1.4	92	0.00
45 C	1,2-Dichloropropane	0.358	0.395	-10.3#	96	0.00
46 T	Dibromomethane	0.253	0.278	-9.9	96	0.00
47 T	Bromodichloromethane	0.541	0.579	-7.0	94	0.00
48 T	Methyl methacrylate	0.283	0.340	-20.1	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085829.D
 Acq On : 24 Feb 2025 11:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 25 01:49:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 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	0.005	0.007	-40.0#	97	0.00
50 S	Toluene-d8	1.190	1.428	-20.0	100	0.00
51 T	4-Methyl-2-Pentanone	0.367	0.466	-27.0#	104	0.00
52 CM	Toluene	0.870	1.009	-16.0#	94	0.00
53 T	t-1,3-Dichloropropene	0.500	0.566	-13.2	91	0.00
54 T	cis-1,3-Dichloropropene	0.548	0.613	-11.9	91	0.00
55 T	1,1,2-Trichloroethane	0.346	0.386	-11.6	98	0.00
56 T	Ethyl methacrylate	0.434	0.565	-30.2#	96	0.00
57 T	1,3-Dichloropropane	0.577	0.656	-13.7	98	0.00
58 T	2-Chloroethyl Vinyl ether	0.195	0.200	-2.6	97	0.00
59 T	2-Hexanone	0.253	0.338	-33.6#	104	0.00
60 T	Dibromochloromethane	0.403	0.459	-13.9	96	0.00
61 T	1,2-Dibromoethane	0.327	0.376	-15.0	99	0.00
62 S	4-Bromofluorobenzene	0.392	0.497	-26.8#	100	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00
64 T	Tetrachloroethene	0.387	0.388	-0.3	93	0.00
65 PM	Chlorobenzene	1.145	1.187	-3.7	93	0.00
66 T	1,1,1,2-Tetrachloroethane	0.412	0.441	-7.0	97	0.00
67 C	Ethyl Benzene	1.794	2.058	-14.7#	94	0.00
68 T	m/p-Xylenes	0.682	0.815	-19.5	96	0.00
69 T	o-Xylene	0.648	0.761	-17.4	94	0.00
70 T	Styrene	1.059	1.326	-25.2#	96	0.00
71 P	Bromoform	0.306	0.351	-14.7	101	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
73 T	Isopropylbenzene	3.425	3.702	-8.1	94	0.00
74 T	N-amyl acetate	1.208	1.320	-9.3	97	0.00
75 P	1,1,2,2-Tetrachloroethane	1.179	1.192	-1.1	104	0.00
76 T	1,2,3-Trichloropropane	1.111	1.090	1.9	105	0.00
77 T	Bromobenzene	0.925	0.943	-1.9	95	0.00
78 T	n-propylbenzene	3.923	4.439	-13.2	95	0.00
79 T	2-Chlorotoluene	2.621	2.728	-4.1	95	0.00
80 T	1,3,5-Trimethylbenzene	2.790	3.163	-13.4	95	0.00
81 T	trans-1,4-Dichloro-2-butene	0.381	0.428	-12.3	99	0.00
82 T	4-Chlorotoluene	2.598	2.782	-7.1	96	0.00
83 T	tert-Butylbenzene	2.346	2.575	-9.8	91	0.00
84 T	1,2,4-Trimethylbenzene	2.761	3.226	-16.8	96	0.00
85 T	sec-Butylbenzene	3.315	3.667	-10.6	92	0.00
86 T	p-Isopropyltoluene	2.665	3.069	-15.2	92	0.00
87 T	1,3-Dichlorobenzene	1.734	1.758	-1.4	98	0.00
88 T	1,4-Dichlorobenzene	1.777	1.724	3.0	96	0.00
89 T	n-Butylbenzene	2.354	2.499	-6.2	90	0.00
90 T	Hexachloroethane	0.628	0.624	0.6	97	0.00
91 T	1,2-Dichlorobenzene	1.667	1.699	-1.9	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.216	0.219	-1.4	104	0.00
93 T	1,2,4-Trichlorobenzene	0.794	0.808	-1.8	92	0.00
94 T	Hexachlorobutadiene	0.483	0.416	13.9	90	0.00
95 T	Naphthalene	2.181	2.362	-8.3	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085829.D
Acq On : 24 Feb 2025 11:37
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 25 01:49:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
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	0.798	0.802	-0.5	93	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085829.D
 Acq On : 24 Feb 2025 11:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 25 01:49:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 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	84	0.00
2 T	Dichlorodifluoromethane	50.000	51.450	-2.9	88	0.00
3 P	Chloromethane	50.000	48.377	3.2	89	0.00
4 C	Vinyl Chloride	50.000	49.740	0.5#	89	0.00
5 T	Bromomethane	50.000	47.274	5.5	86	0.00
6 T	Chloroethane	50.000	48.156	3.7	93	0.00
7 T	Trichlorofluoromethane	50.000	50.459	-0.9	92	0.00
8 T	Diethyl Ether	50.000	51.850	-3.7	89	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.166	-6.3	96	0.00
10 T	Methyl Iodide	50.000	51.378	-2.8	89	0.00
11 T	Tert butyl alcohol	250.000	290.770	-16.3	99	0.00
12 CM	1,1-Dichloroethene	50.000	51.868	-3.7#	90	0.00
13 T	Acrolein	250.000	289.200	-15.7	91	0.00
14 T	Allyl chloride	50.000	49.710	0.6	87	0.00
15 T	Acrylonitrile	250.000	291.573	-16.6	104	0.00
16 T	Acetone	250.000	264.466	-5.8	99	0.00
17 T	Carbon Disulfide	50.000	47.411	5.2	88	0.00
18 T	Methyl Acetate	50.000	54.962	-9.9	105	0.00
19 T	Methyl tert-butyl Ether	50.000	55.865	-11.7	92	0.00
20 T	Methylene Chloride	50.000	50.760	-1.5	95	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.388	-2.8	93	0.00
22 T	Diisopropyl ether	50.000	56.735	-13.5	94	0.00
23 T	Vinyl Acetate	250.000	281.744	-12.7	94	0.00
24 P	1,1-Dichloroethane	50.000	52.606	-5.2	94	0.00
25 T	2-Butanone	250.000	294.527	-17.8	101	0.01
26 T	2,2-Dichloropropane	50.000	51.672	-3.3	90	0.00
27 T	cis-1,2-Dichloroethene	50.000	52.265	-4.5	91	0.00
28 T	Bromochloromethane	50.000	54.576	-9.2	94	0.00
29 T	Tetrahydrofuran	250.000	310.939	-24.4	104	0.00
30 C	Chloroform	50.000	52.128	-4.3#	94	0.00
31 T	Cyclohexane	50.000	48.945	2.1	88	0.00
32 T	1,1,1-Trichloroethane	50.000	51.709	-3.4	92	0.00
33 S	1,2-Dichloroethane-d4	50.000	55.639	-11.3	99	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	84	0.00
35 S	Dibromofluoromethane	50.000	58.676	-17.4	102	0.00
36 T	1,1-Dichloropropene	50.000	54.037	-8.1	92	0.00
37 T	Ethyl Acetate	50.000	57.974	-15.9	99	0.00
38 T	Carbon Tetrachloride	50.000	53.654	-7.3	94	0.00
39 T	Methylcyclohexane	50.000	55.217	-10.4	86	0.00
40 TM	Benzene	50.000	54.323	-8.6	94	0.00
41 T	Methacrylonitrile	50.000	58.349	-16.7	93	0.01
42 TM	1,2-Dichloroethane	50.000	52.542	-5.1	94	0.00
43 T	Isopropyl Acetate	50.000	55.521	-11.0	98	0.00
44 TM	Trichloroethene	50.000	50.665	-1.3	92	0.00
45 C	1,2-Dichloropropane	50.000	55.144	-10.3#	96	0.00
46 T	Dibromomethane	50.000	54.933	-9.9	96	0.00
47 T	Bromodichloromethane	50.000	53.518	-7.0	94	0.00
48 T	Methyl methacrylate	50.000	60.014	-20.0	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085829.D
 Acq On : 24 Feb 2025 11:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 25 01:49:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 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	1232.633	-23.3	97	0.00
50 S	Toluene-d8	50.000	59.993	-20.0	100	0.00
51 T	4-Methyl-2-Pentanone	250.000	317.207	-26.9#	104	0.00
52 CM	Toluene	50.000	58.015	-16.0#	94	0.00
53 T	t-1,3-Dichloropropene	50.000	56.589	-13.2	91	0.00
54 T	cis-1,3-Dichloropropene	50.000	55.876	-11.8	91	0.00
55 T	1,1,2-Trichloroethane	50.000	55.813	-11.6	98	0.00
56 T	Ethyl methacrylate	50.000	55.991	-12.0	96	0.00
57 T	1,3-Dichloropropane	50.000	56.820	-13.6	98	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	255.958	-2.4	97	0.00
59 T	2-Hexanone	250.000	334.610	-33.8#	104	0.00
60 T	Dibromochloromethane	50.000	57.041	-14.1	96	0.00
61 T	1,2-Dibromoethane	50.000	57.568	-15.1	99	0.00
62 S	4-Bromofluorobenzene	50.000	63.323	-26.6#	100	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	87	0.00
64 T	Tetrachloroethene	50.000	50.032	-0.1	93	0.00
65 PM	Chlorobenzene	50.000	51.832	-3.7	93	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.564	-7.1	97	0.00
67 C	Ethyl Benzene	50.000	57.345	-14.7#	94	0.00
68 T	m/p-Xylenes	100.000	119.597	-19.6	96	0.00
69 T	o-Xylene	50.000	58.731	-17.5	94	0.00
70 T	Styrene	50.000	54.496	-9.0	96	0.00
71 P	Bromoform	50.000	57.401	-14.8	101	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	92	0.00
73 T	Isopropylbenzene	50.000	54.038	-8.1	94	0.00
74 T	N-amyl acetate	50.000	54.632	-9.3	97	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.557	-1.1	104	0.00
76 T	1,2,3-Trichloropropane	50.000	49.065	1.9	105	0.00
77 T	Bromobenzene	50.000	50.956	-1.9	95	0.00
78 T	n-propylbenzene	50.000	56.580	-13.2	95	0.00
79 T	2-Chlorotoluene	50.000	52.042	-4.1	95	0.00
80 T	1,3,5-Trimethylbenzene	50.000	56.679	-13.4	95	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	56.191	-12.4	99	0.00
82 T	4-Chlorotoluene	50.000	53.531	-7.1	96	0.00
83 T	tert-Butylbenzene	50.000	54.866	-9.7	91	0.00
84 T	1,2,4-Trimethylbenzene	50.000	58.422	-16.8	96	0.00
85 T	sec-Butylbenzene	50.000	55.301	-10.6	92	0.00
86 T	p-Isopropyltoluene	50.000	50.471	-0.9	92	0.00
87 T	1,3-Dichlorobenzene	50.000	50.703	-1.4	98	0.00
88 T	1,4-Dichlorobenzene	50.000	48.492	3.0	96	0.00
89 T	n-Butylbenzene	50.000	53.081	-6.2	90	0.00
90 T	Hexachloroethane	50.000	49.669	0.7	97	0.00
91 T	1,2-Dichlorobenzene	50.000	50.964	-1.9	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	50.523	-1.0	104	0.00
93 T	1,2,4-Trichlorobenzene	50.000	50.842	-1.7	92	0.00
94 T	Hexachlorobutadiene	50.000	43.061	13.9	90	0.00
95 T	Naphthalene	50.000	54.146	-8.3	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085829.D
Acq On : 24 Feb 2025 11:37
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 25 01:49:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
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	50.288	-0.6	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



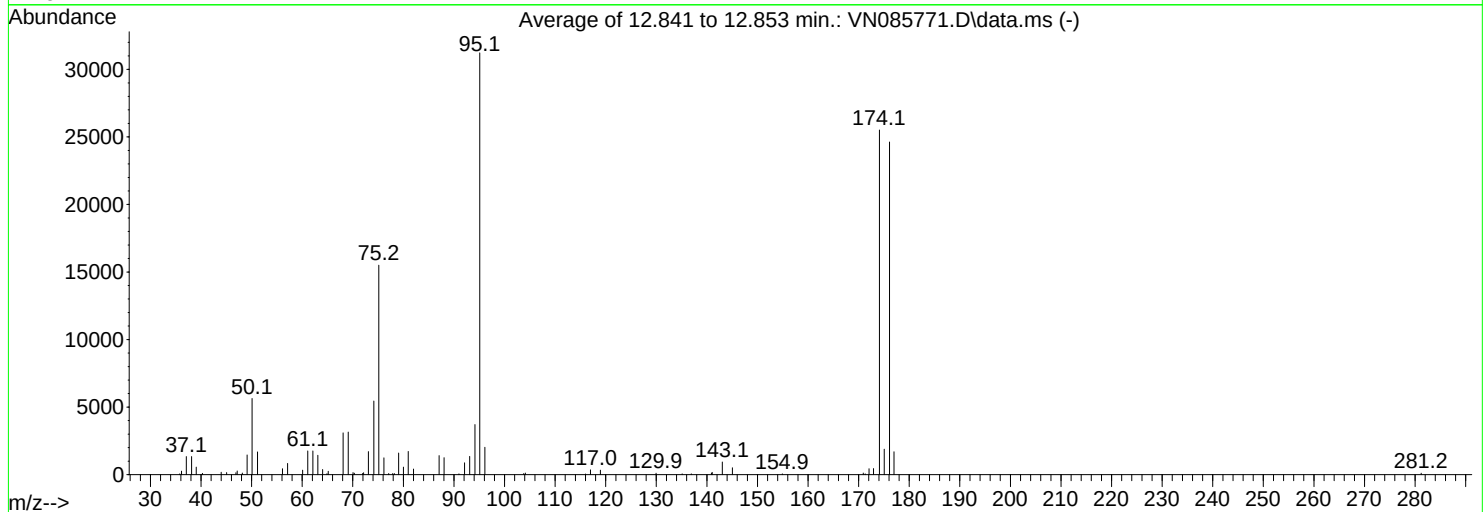
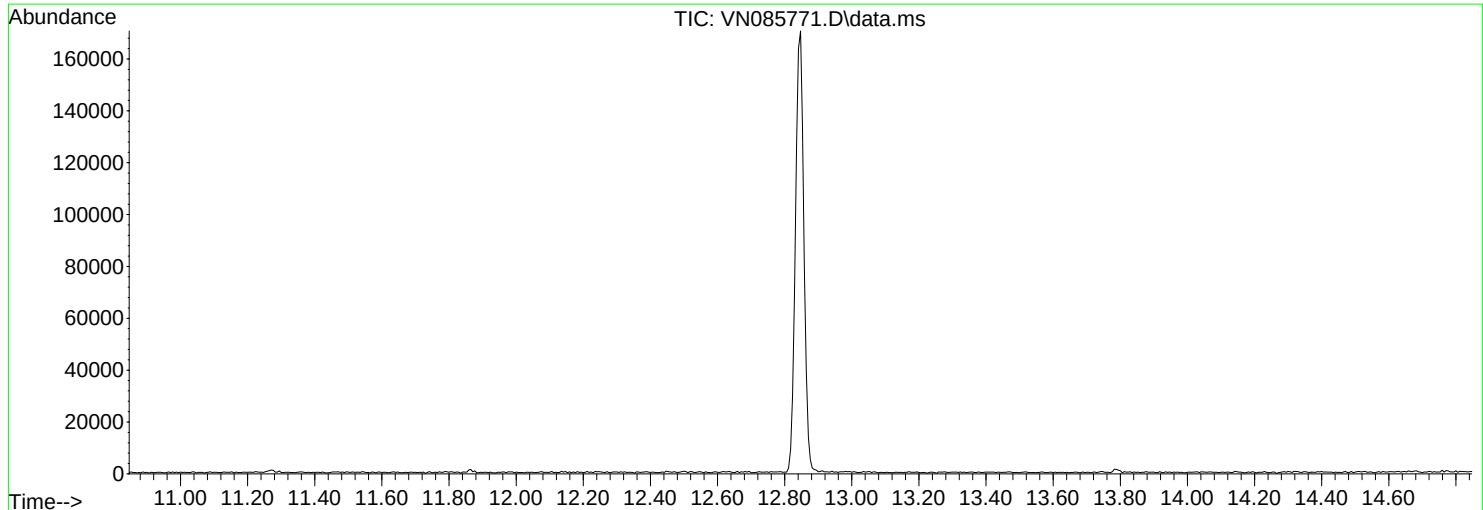
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085771.D
Acq On : 18 Feb 2025 10:35
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260
Last Update : Wed Feb 19 03:43:32 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.1	5643	PASS
75	95	30	60	49.7	15509	PASS
95	95	100	100	100.0	31224	PASS
96	95	5	9	6.5	2024	PASS
173	174	0.00	2	1.8	452	PASS
174	95	50	100	81.7	25509	PASS
175	174	5	9	7.4	1882	PASS
176	174	95	101	96.5	24621	PASS
177	176	5	9	6.9	1699	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.80	65	48.15	124	64.90	70	76.15	124
36.15	261	49.10	1454	65.15	255	77.10	80
37.10	1338	50.10	5643	68.10	3096	77.90	80
38.15	1335	51.15	1680	69.10	3155	78.20	80
39.05	560	56.10	443	70.05	161	79.05	1595
40.00	21	57.10	824	70.30	106	80.00	557
40.30	99	60.10	333	71.90	80	80.95	1716
44.00	176	61.10	1754	72.15	148	82.00	419
45.05	157	62.10	1754	73.10	1710	87.05	1414
46.90	145	63.10	1428	74.15	5444	88.05	1255
47.15	276	64.05	377	75.15	15509	91.00	59

Average of 12.841 to 12.853 min.: VN085771.D\data.ms

BFB

Modified:subtracted

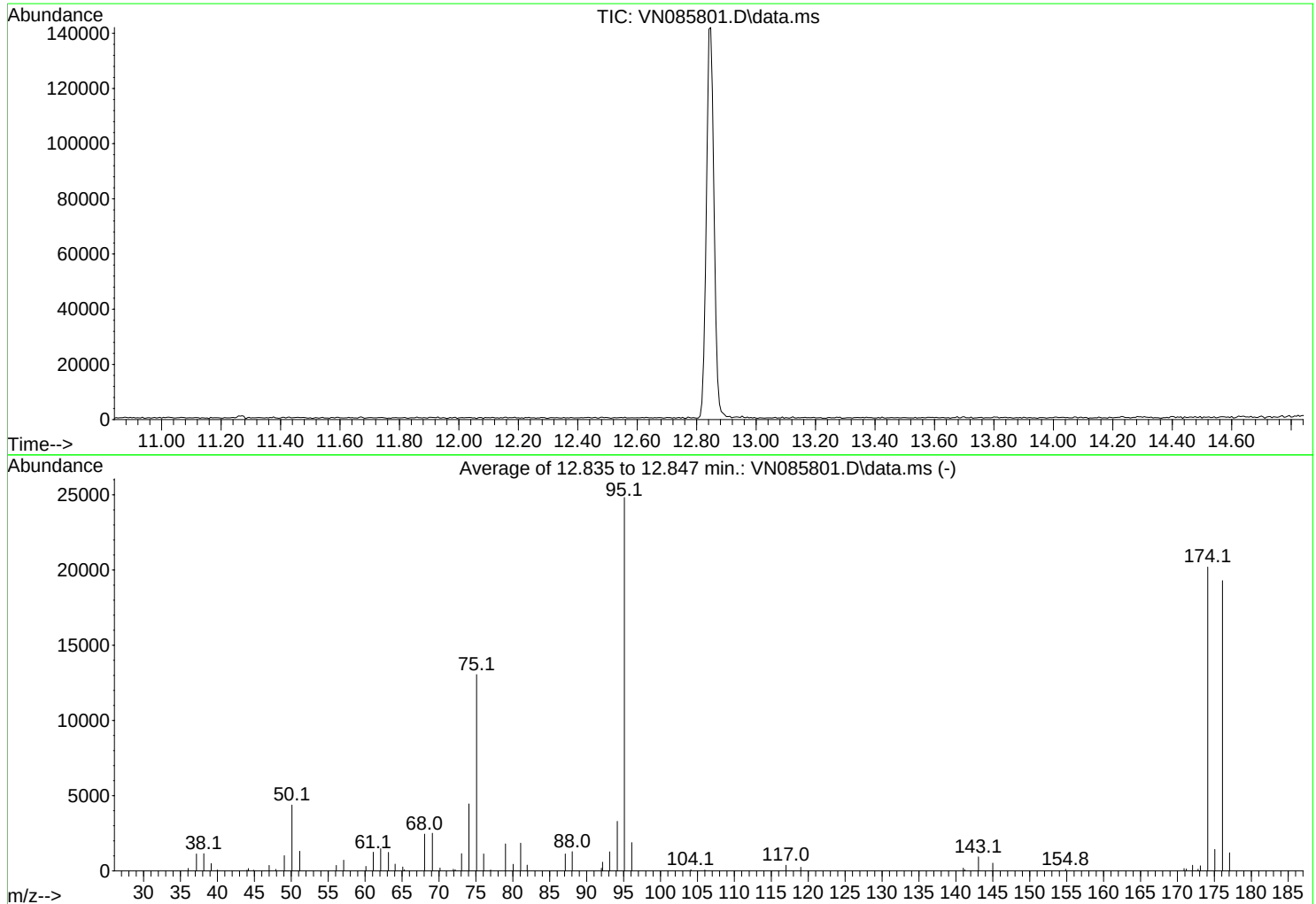
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.10	882	135.10	54	174.10	25509		
93.10	1346	136.90	57	175.05	1882		
94.15	3713	140.90	114	176.10	24621		
95.10	31224	141.05	164	177.00	1699		
96.10	2024	143.05	938	281.20	112		
103.80	81	145.05	510				
104.10	121	154.90	54				
116.00	52	170.90	116				
117.00	351	171.30	58				
118.95	331	172.05	440				
129.95	112	172.95	452				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085801.D
Acq On : 21 Feb 2025 14:10
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260
Last Update : Wed Feb 19 03:43:32 2025



AutoFind: Scans 1850, 1851, 1852; Background Corrected with Scan 1843

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	17.6	4381	PASS
75	95	30	60	52.6	13051	PASS
95	95	100	100	100.0	24827	PASS
96	95	5	9	7.6	1881	PASS
173	174	0.00	2	1.7	339	PASS
174	95	50	100	81.4	20204	PASS
175	174	5	9	7.1	1432	PASS
176	174	95	101	95.5	19296	PASS
177	176	5	9	6.2	1205	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	174	50.10	4381	68.05	2450	80.05	431
37.15	1127	51.15	1305	69.10	2505	81.05	1841
38.15	1151	56.10	363	70.15	198	81.95	381
39.15	494	57.10	719	71.95	114	87.10	1131
40.00	62	60.10	298	72.20	81	88.05	1278
44.00	54	61.10	1243	73.05	1151	92.00	182
44.20	163	62.10	1475	74.05	4456	92.15	586
44.90	58	63.15	1236	75.10	13051	93.10	1275
47.00	365	64.05	451	76.05	1135	94.15	3297
47.90	108	65.10	265	77.00	65	95.10	24827
49.05	1021	65.30	79	79.00	1803	96.10	1881

Average of 12.835 to 12.847 min.: VN085801.D\data.ms

BFB

Modified:subtracted

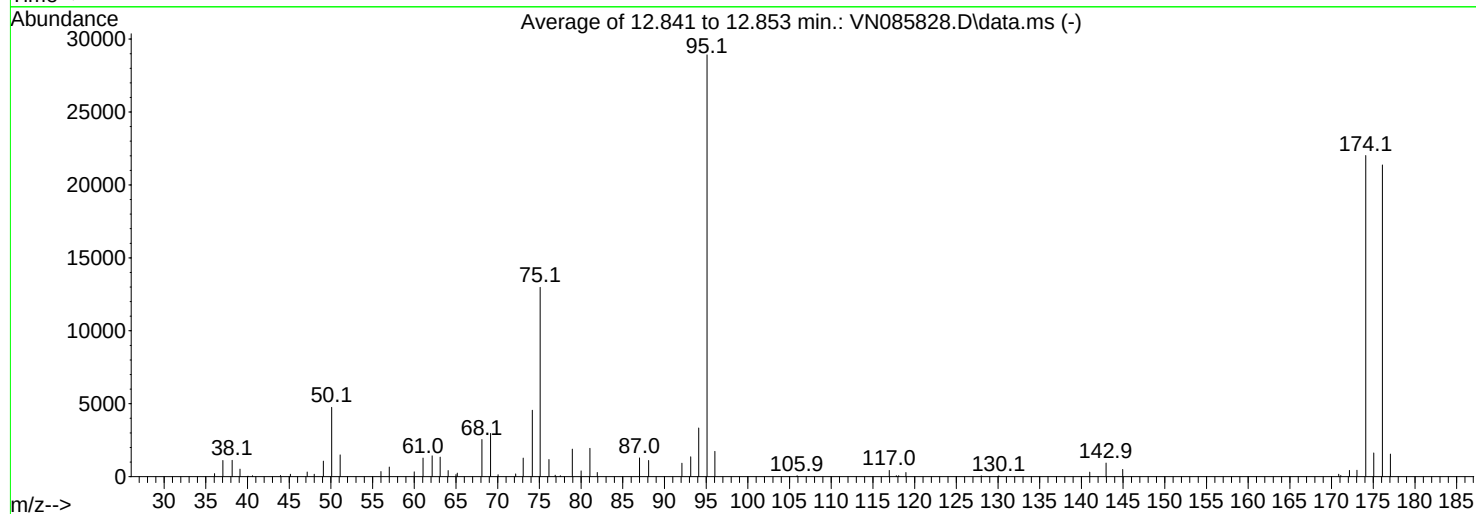
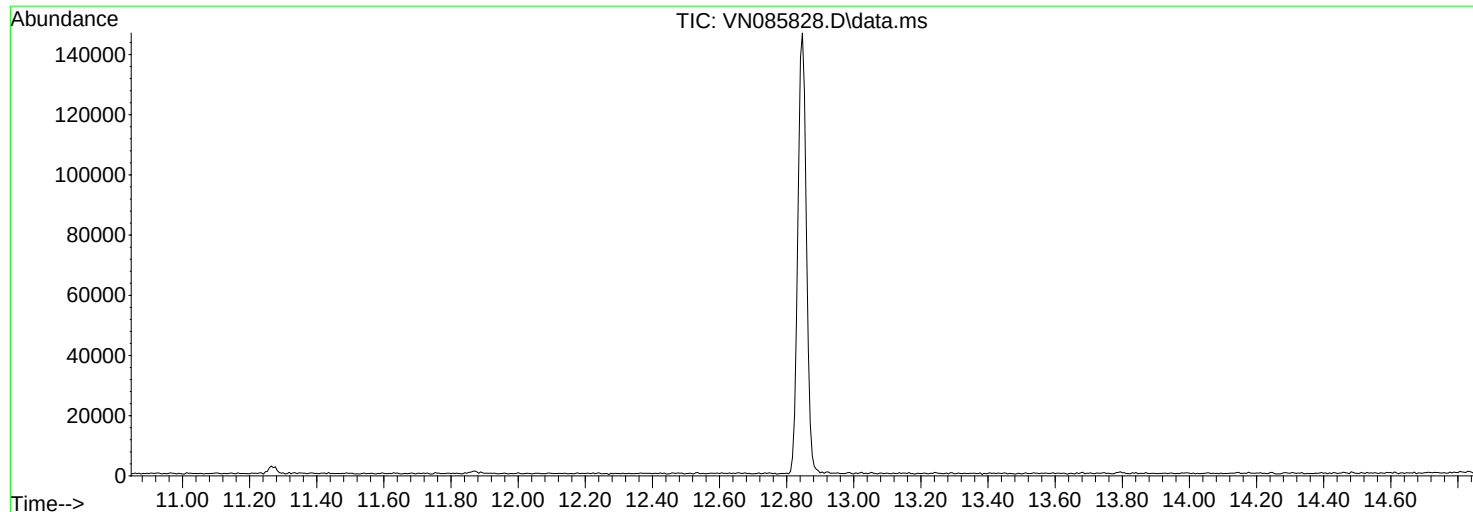
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
104.10	82	172.05	379				
106.00	69	172.80	117				
117.00	381	173.10	339				
119.00	242	174.10	20204				
141.00	187	175.05	1432				
141.20	79	176.10	19296				
143.05	934	177.05	1205				
145.00	521						
154.85	109						
170.90	162						
171.20	133						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085828.D
Acq On : 24 Feb 2025 10:50
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260
Last Update : Wed Feb 19 03:43:32 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	4752	PASS
75	95	30	60	44.9	12981	PASS
95	95	100	100	100.0	28920	PASS
96	95	5	9	6.0	1735	PASS
173	174	0.00	2	2.0	435	PASS
174	95	50	100	76.1	22019	PASS
175	174	5	9	7.4	1623	PASS
176	174	95	101	97.1	21376	PASS
177	176	5	9	7.2	1547	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	213	50.10	4752	68.10	2541	80.00	391
37.05	1113	51.10	1494	69.15	2959	81.05	193
38.15	1123	56.00	352	70.05	131	81.95	28
39.10	516	57.00	660	72.15	192	87.00	128
40.05	37	60.00	334	73.05	1273	88.10	1113
40.60	70	61.05	1273	74.15	4554	92.10	923
43.95	77	62.15	1425	75.10	12981	93.15	1365
45.15	168	63.10	1344	76.15	1172	94.10	3331
47.15	317	64.05	415	76.90	97	95.10	28920
48.00	169	65.00	146	77.50	65	96.05	1735
49.10	1059	65.15	244	78.95	1892	105.90	64

Average of 12.841 to 12.853 min.: VN085828.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.95	433	172.15	424				
117.80	70	173.05	435				
118.10	66	174.10	22019				
118.95	287	175.05	1623				
128.00	55	176.10	21376				
130.10	57	177.05	1547				
141.00	304						
142.95	938						
144.95	493						
170.85	165						
171.10	77						

Instrument :

MSVOA_N

ClientSampleId :

BFB

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VN0221WBL01	SDG No.:	Q1405
Lab Sample ID:	VN0221WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085804.D	1		02/21/25 15:42	VN022125

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

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	
Project:	REAC Commodore			Date Received:	
Client Sample ID:	VN0221WBL01			SDG No.:	Q1405
Lab Sample ID:	VN0221WBL01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085804.D	1		02/21/25 15:42	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.2		74 - 125	120%	SPK: 50
1868-53-7	Dibromofluoromethane	57.2		75 - 124	114%	SPK: 50
2037-26-5	Toluene-d8	50.6		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	239000	8.218			
540-36-3	1,4-Difluorobenzene	440000	9.1			
3114-55-4	Chlorobenzene-d5	394000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.788			

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	
Project:	REAC Commodore			Date Received:	
Client Sample ID:	VN0221WBL01			SDG No.:	Q1405
Lab Sample ID:	VN0221WBL01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085804.D	1		02/21/25 15:42	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022125\
 Data File : VN085804.D
 Acq On : 21 Feb 2025 15:42
 Operator : JC\MD
 Sample : VN0221WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0221WBL01

Quant Time: Feb 22 02:35:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.218	168	239124	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	440255	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	393842	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	150905	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	186621	60.197	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	120.400%
35) Dibromofluoromethane	8.159	113	164740	57.185	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	114.380%
50) Toluene-d8	10.565	98	530599	50.623	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.240%
62) 4-Bromofluorobenzene	12.847	95	152825	44.254	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	88.500%

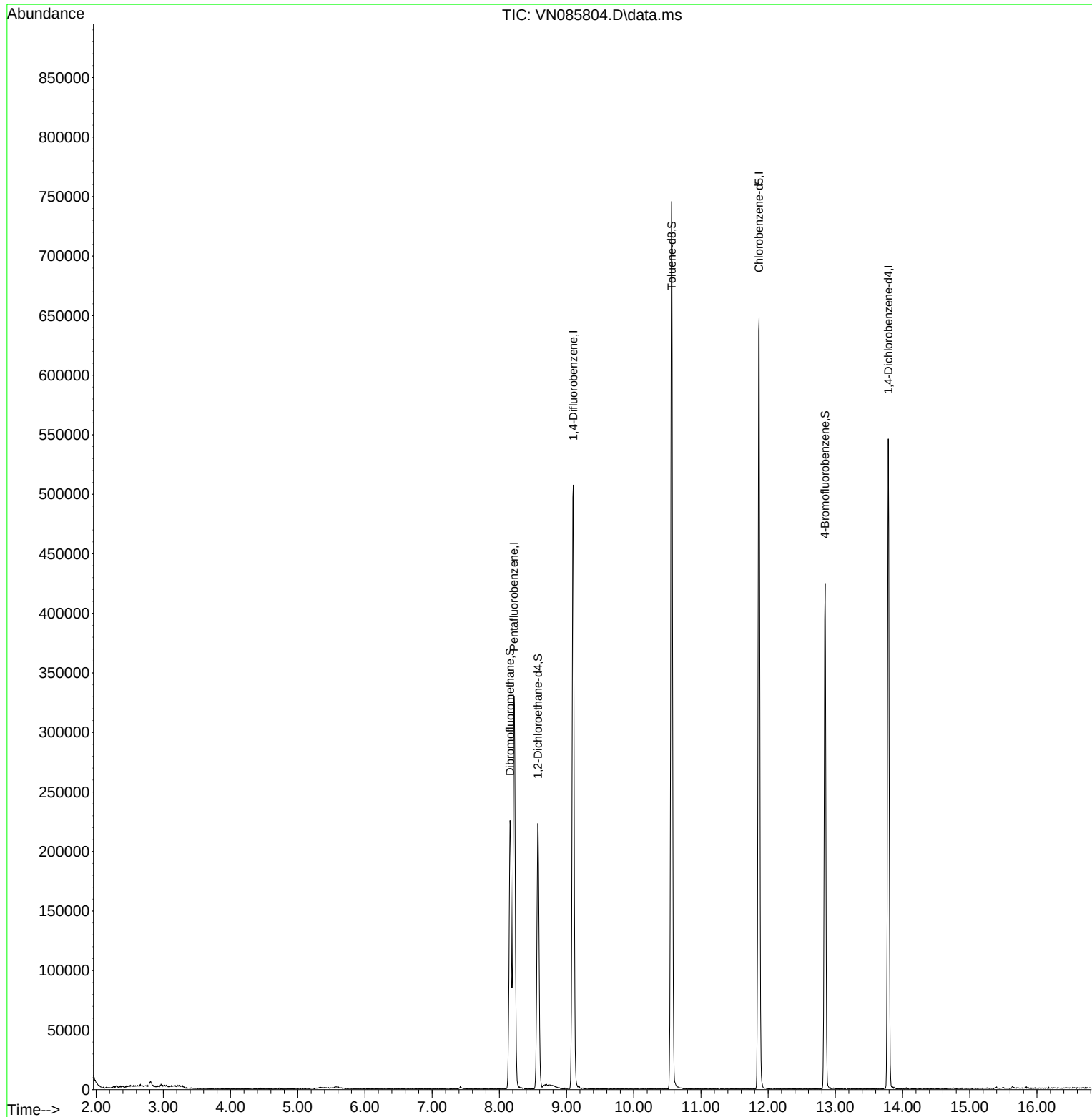
Target Compounds	Qvalue

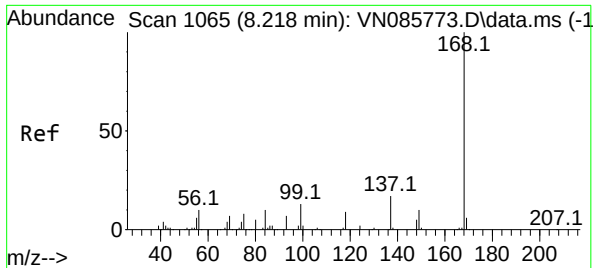
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085804.D
Acq On : 21 Feb 2025 15:42
Operator : JC\MD
Sample : VN0221WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01

Quant Time: Feb 22 02:35:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

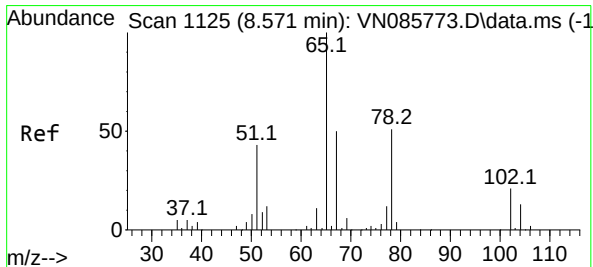
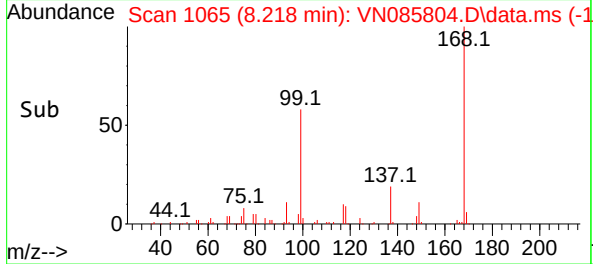
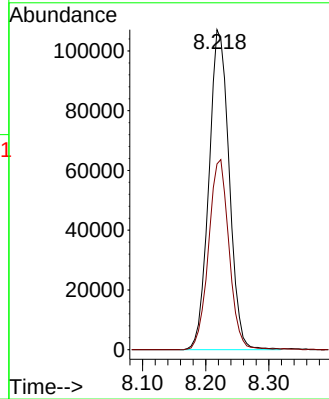
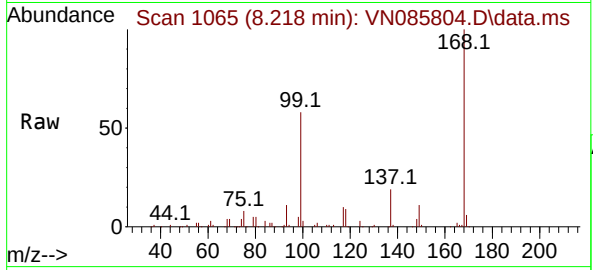




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085804.D
Acq: 21 Feb 2025 15:42

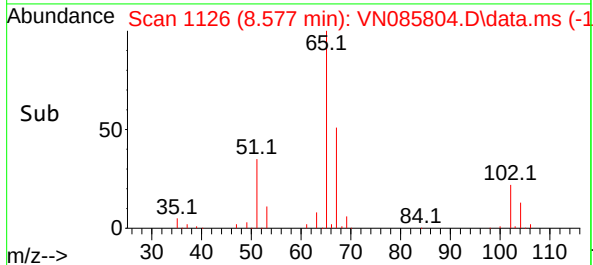
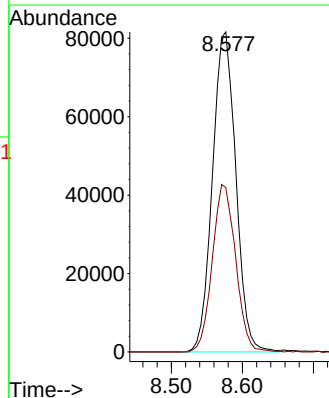
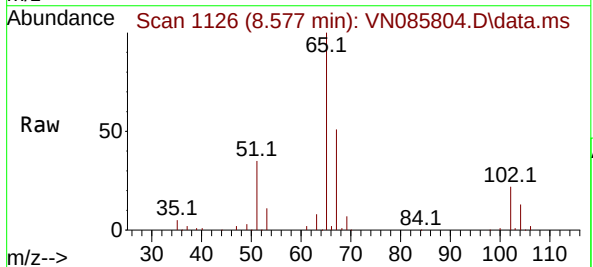
Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01

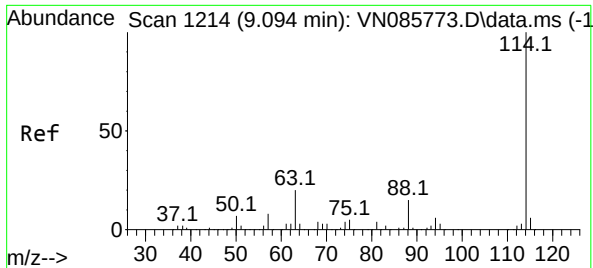
Tgt Ion:168 Resp: 239124
Ion Ratio Lower Upper
168 100
99 58.1 47.9 71.9



#33
1,2-Dichloroethane-d4
Concen: 60.197 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085804.D
Acq: 21 Feb 2025 15:42

Tgt Ion: 65 Resp: 186621
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085804.D

Acq: 21 Feb 2025 15:42

Instrument :

MSVOA_N

ClientSampleId :

VN0221WBL01

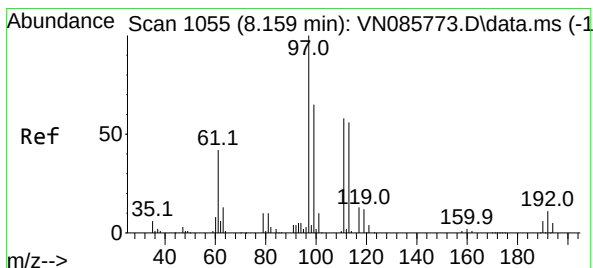
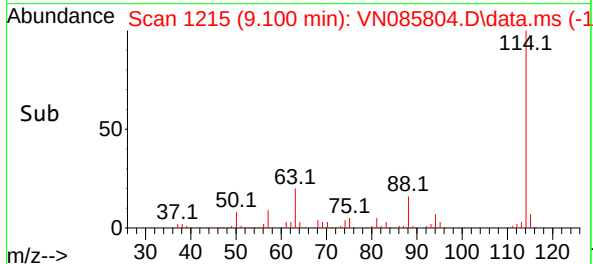
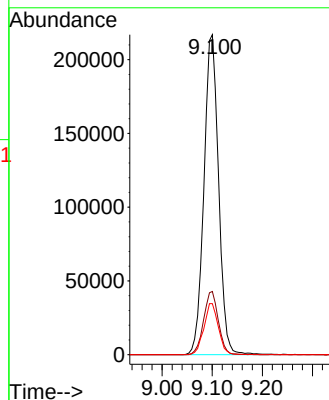
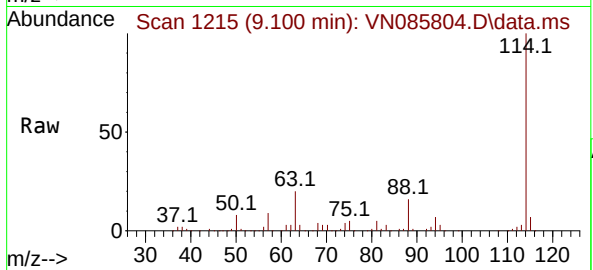
Tgt Ion:114 Resp: 440255

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.2

88 16.0 0.0 30.0



#35

Dibromofluoromethane

Concen: 57.185 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085804.D

Acq: 21 Feb 2025 15:42

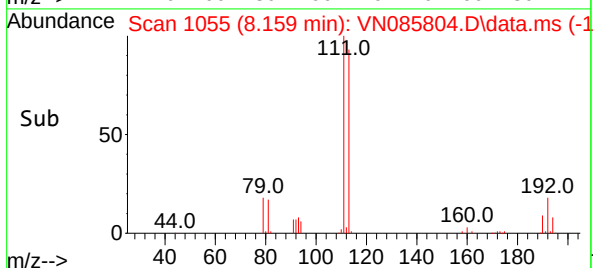
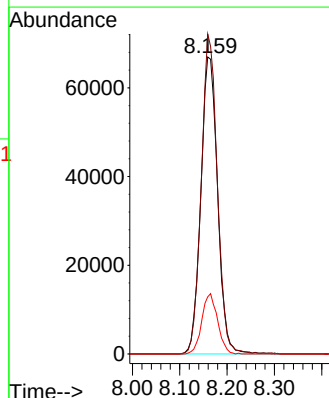
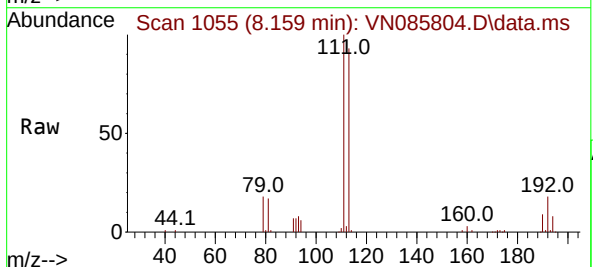
Tgt Ion:113 Resp: 164740

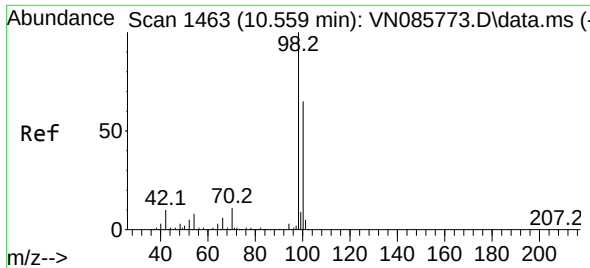
Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.4

192 19.1 14.7 22.1

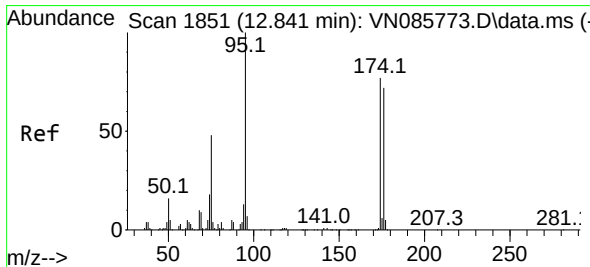
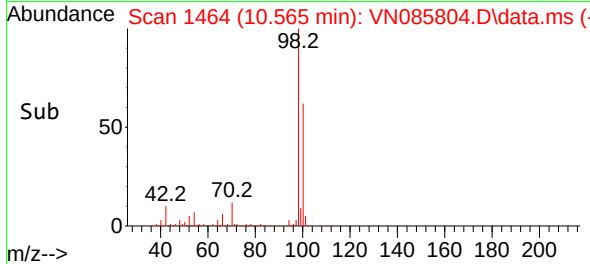
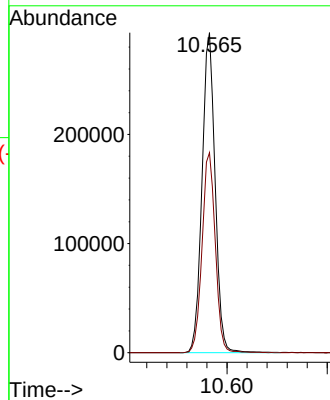
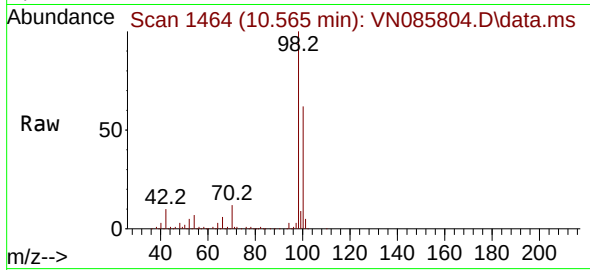




#50
Toluene-d8
Concen: 50.623 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085804.D
Acq: 21 Feb 2025 15:42

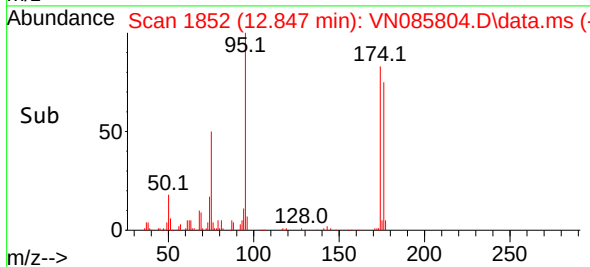
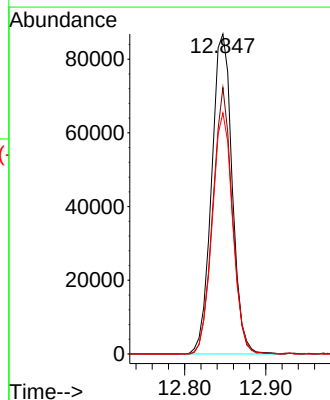
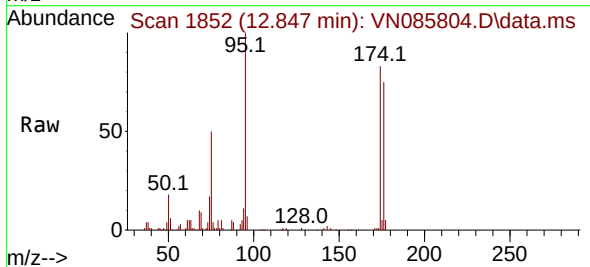
Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01

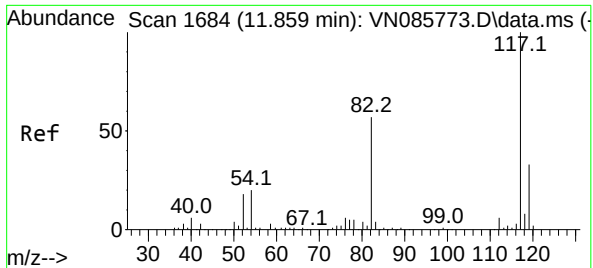
Tgt Ion: 98 Resp: 530599
Ion Ratio Lower Upper
98 100
100 63.2 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 44.254 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085804.D
Acq: 21 Feb 2025 15:42

Tgt Ion: 95 Resp: 152825
Ion Ratio Lower Upper
95 100
174 78.7 0.0 152.4
176 75.1 0.0 146.6

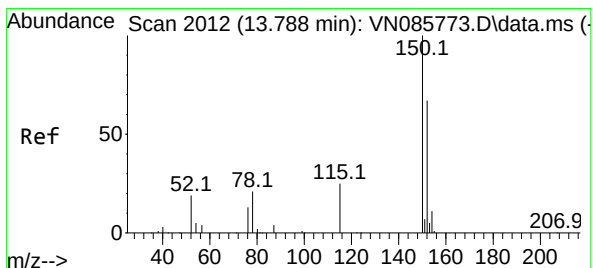
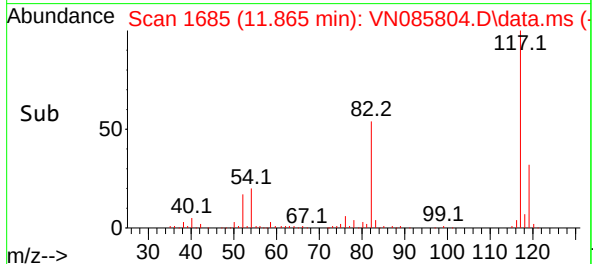
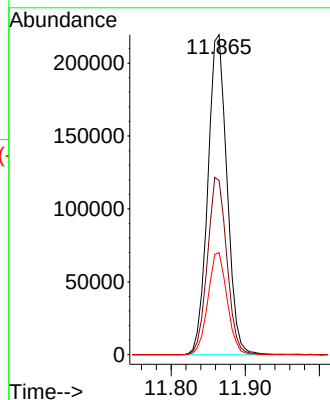
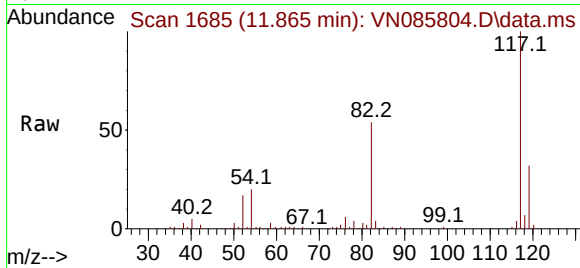




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN085804.D
Acq: 21 Feb 2025 15:42

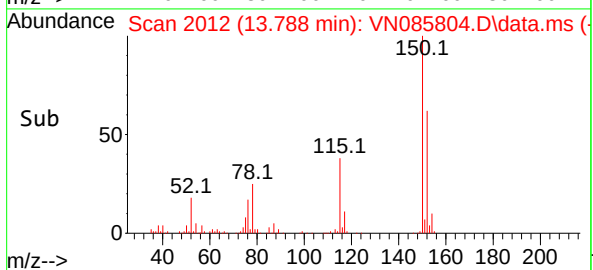
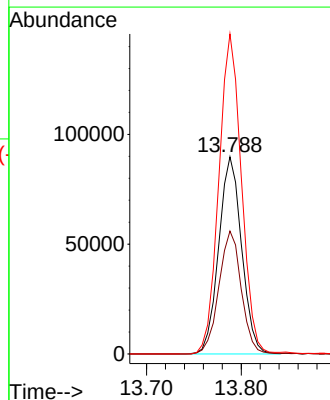
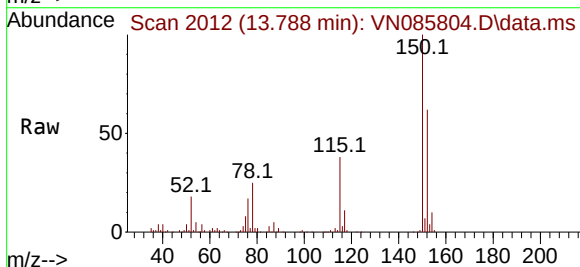
Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01

Tgt Ion:117 Resp: 393842
Ion Ratio Lower Upper
117 100
82 54.5 45.7 68.5
119 31.9 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085804.D
Acq: 21 Feb 2025 15:42

Tgt Ion:152 Resp: 150905
Ion Ratio Lower Upper
152 100
115 60.9 30.4 91.3
150 160.7 0.0 345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085804.D
Acq On : 21 Feb 2025 15:42
Operator : JC\MD
Sample : VN0221WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Title : SW846 8260

Signal : TIC: VN085804.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.159	1046	1055	1060	rBV	225200	526464	38.60%	7.547%
2	8.218	1060	1065	1078	rVB	329090	738618	54.16%	10.588%
3	8.577	1116	1126	1136	rBV	222889	509508	37.36%	7.304%
4	9.100	1205	1215	1226	rBV	507079	1022456	74.97%	14.656%
5	10.565	1455	1464	1477	rBV	745489	1363880	100.00%	19.550%
6	11.865	1676	1685	1699	rBV	648150	1171523	85.90%	16.793%
7	12.847	1844	1852	1864	rBV	424585	736880	54.03%	10.563%
8	13.788	2004	2012	2025	rBV	545637	906872	66.49%	13.000%

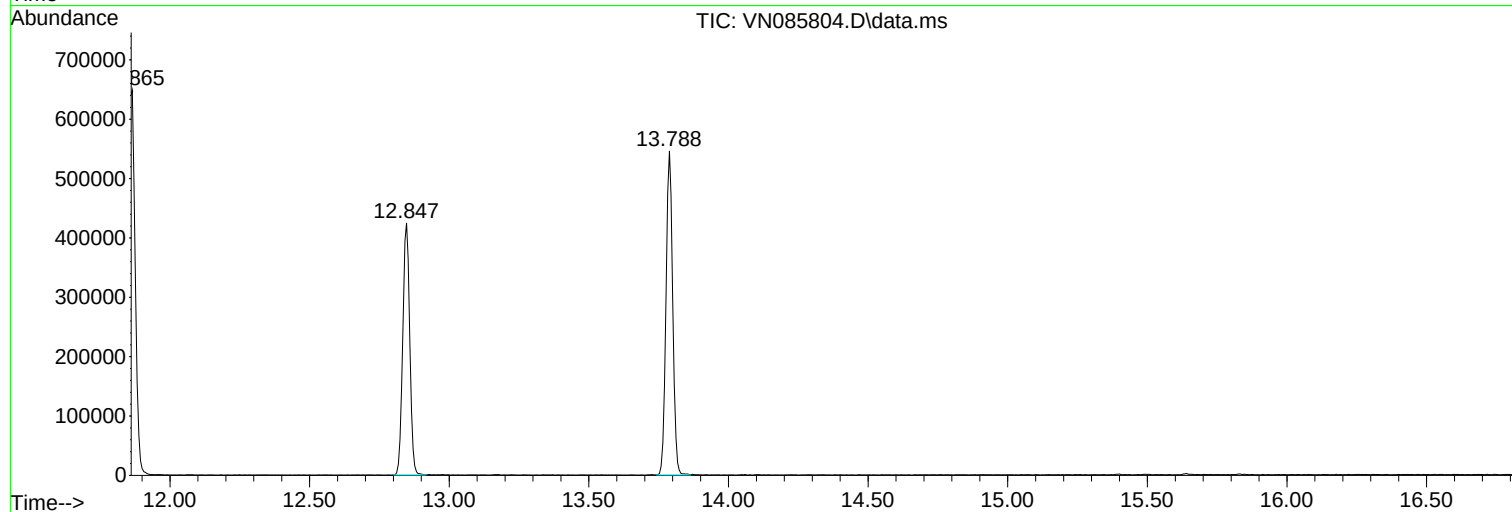
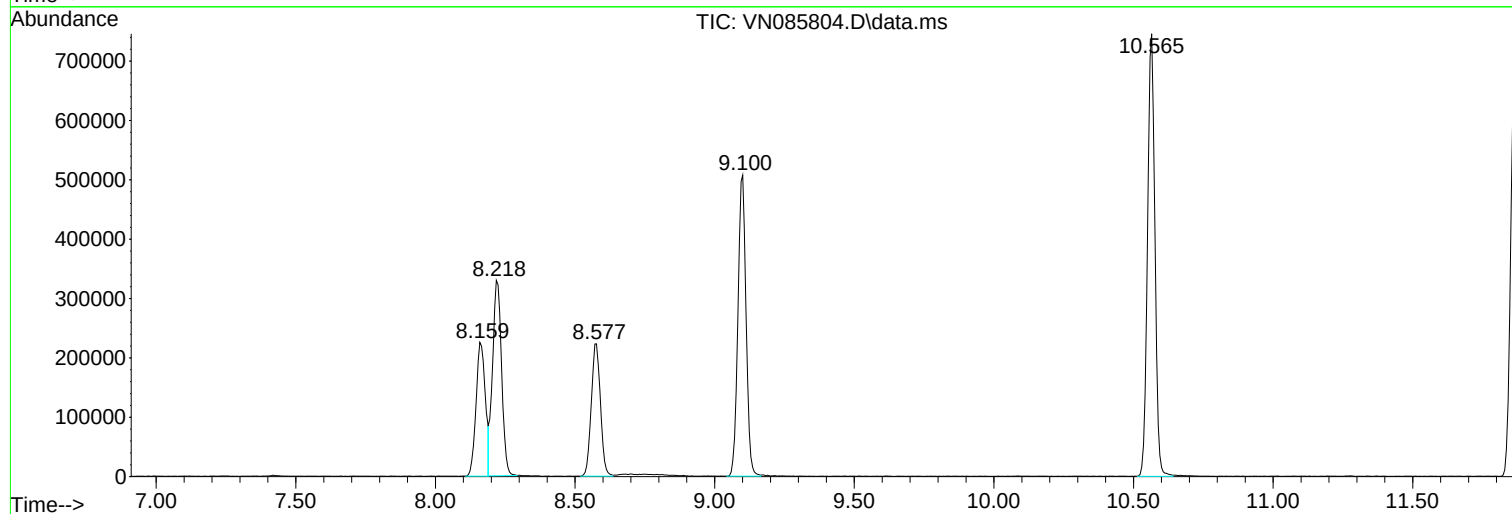
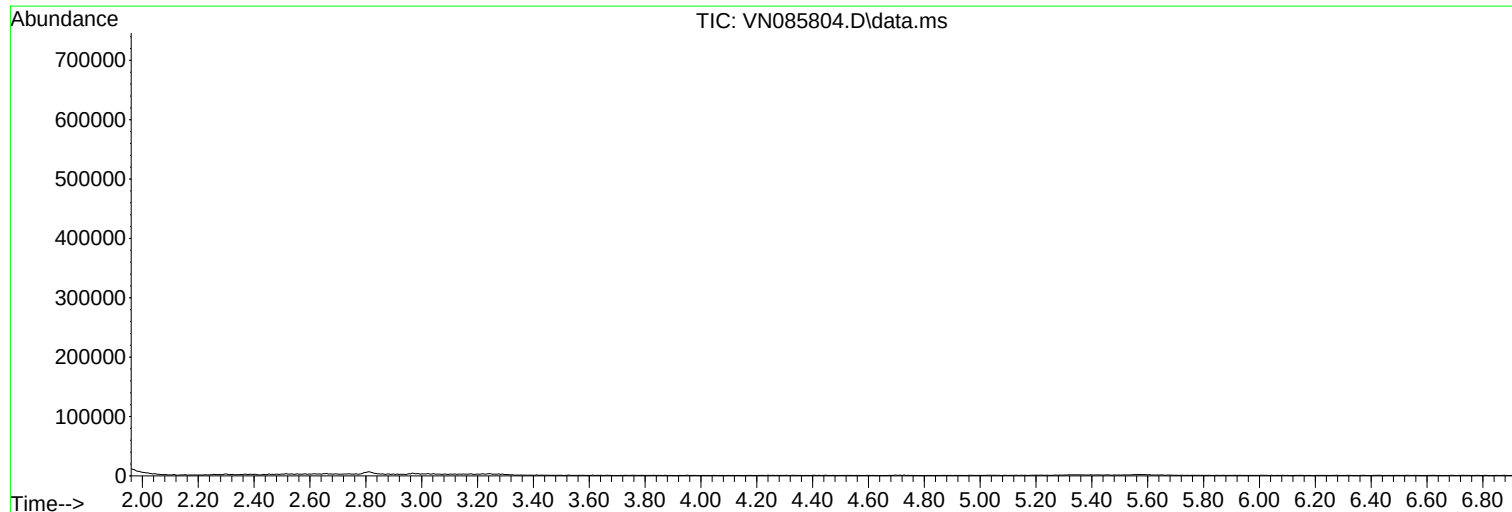
Sum of corrected areas: 6976201

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085804.D
Acq On : 21 Feb 2025 15:42
Operator : JC\MD
Sample : VN0221WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085804.D
Acq On : 21 Feb 2025 15:42
Operator : JC\MD
Sample : VN0221WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085804.D
Acq On : 21 Feb 2025 15:42
Operator : JC\MD
Sample : VN0221WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VN0224WBL01	SDG No.:	Q1405
Lab Sample ID:	VN0224WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085831.D	1		02/24/25 12:39	VN022425

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

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	
Project:	REAC Commodore			Date Received:	
Client Sample ID:	VN0224WBL01			SDG No.:	Q1405
Lab Sample ID:	VN0224WBL01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085831.D	1		02/24/25 12:39	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.2		74 - 125	120%	SPK: 50
1868-53-7	Dibromofluoromethane	54.9		75 - 124	110%	SPK: 50
2037-26-5	Toluene-d8	49.7		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	220000	8.224			
540-36-3	1,4-Difluorobenzene	416000	9.1			
3114-55-4	Chlorobenzene-d5	368000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	141000	13.788			

Report of Analysis

Client:	TechLaw Consultants, Inc		Date Collected:	
Project:	REAC Commodore		Date Received:	
Client Sample ID:	VN0224WBL01		SDG No.:	Q1405
Lab Sample ID:	VN0224WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085831.D	1		02/24/25 12:39	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022425\
 Data File : VN085831.D
 Acq On : 24 Feb 2025 12:39
 Operator : JC\MD
 Sample : VN0224WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0224WBL01

Quant Time: Feb 25 01:51:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	219652	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	415867	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	368217	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	141296	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	171306	60.156	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	120.320%
35) Dibromofluoromethane	8.165	113	149510	54.942	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	109.880%
50) Toluene-d8	10.565	98	492086	49.702	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.400%
62) 4-Bromofluorobenzene	12.847	95	144556	44.314	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	88.620%

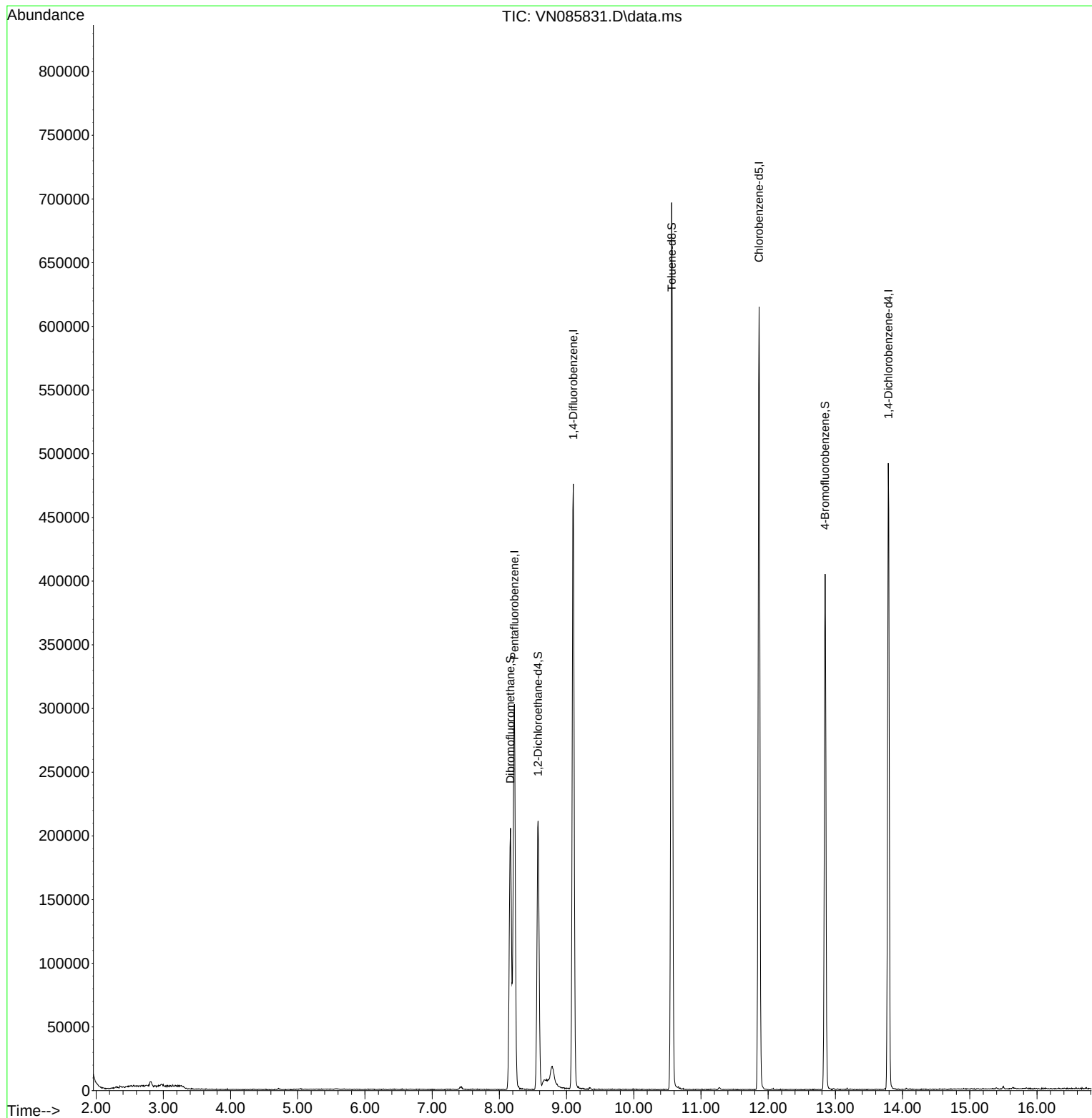
Target Compounds	Qvalue

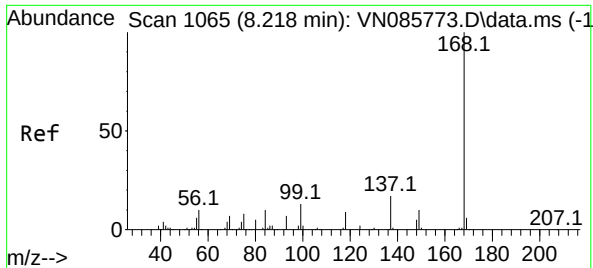
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Time: Feb 25 01:51:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

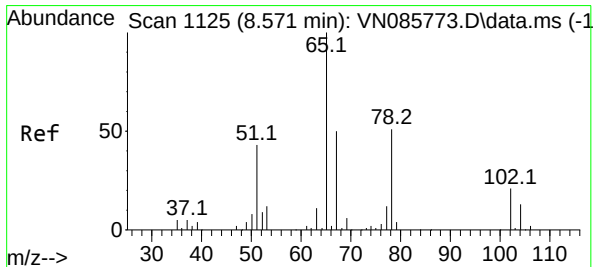
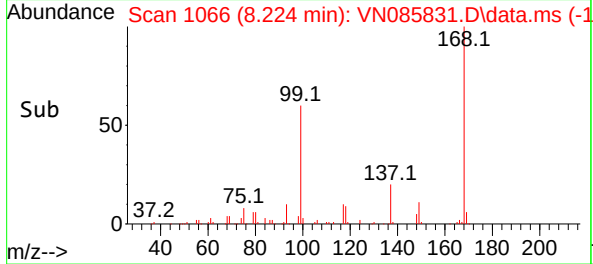
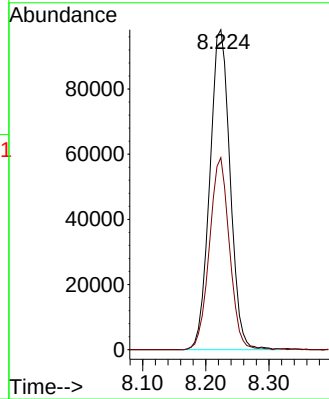
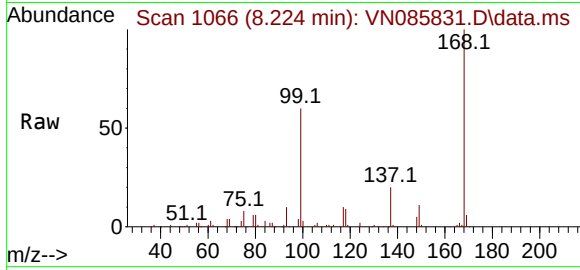




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

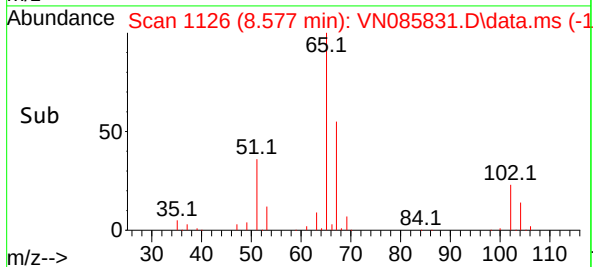
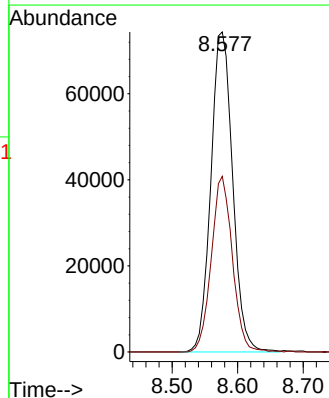
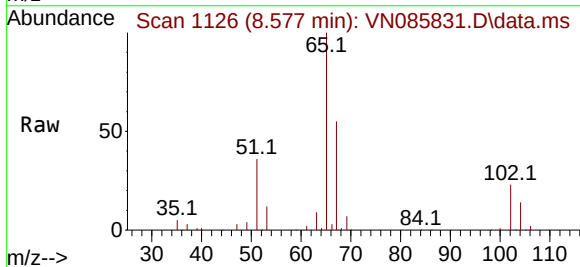
Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

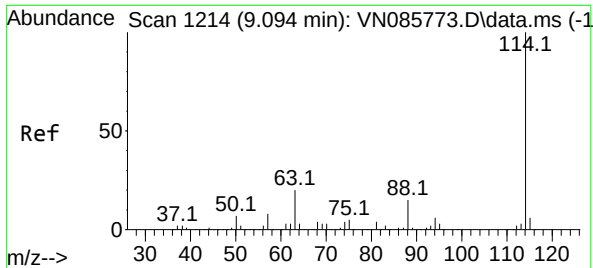
Tgt Ion:168 Resp: 219652
Ion Ratio Lower Upper
168 100
99 60.0 47.9 71.9



#33
1,2-Dichloroethane-d4
Concen: 60.156 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion: 65 Resp: 171306
Ion Ratio Lower Upper
65 100
67 53.2 0.0 106.2

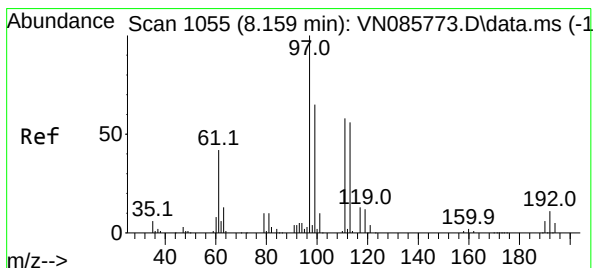
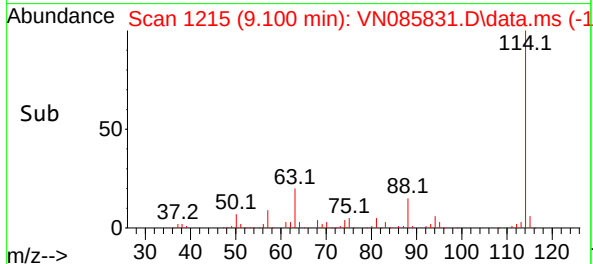
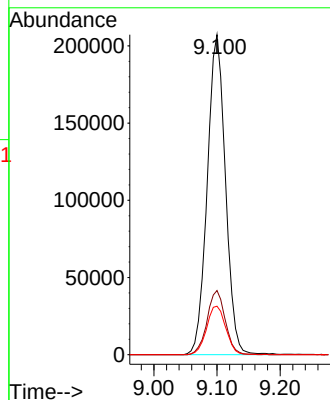
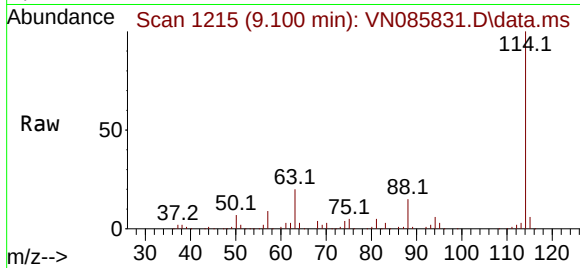




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

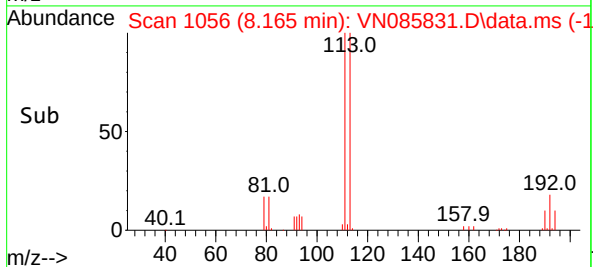
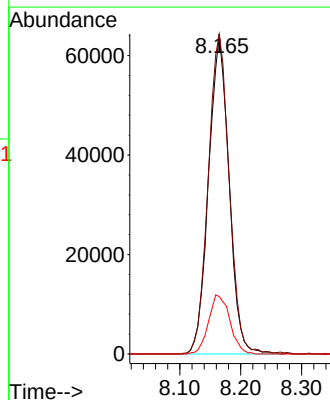
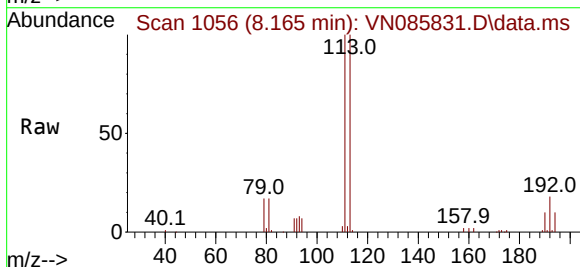
Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

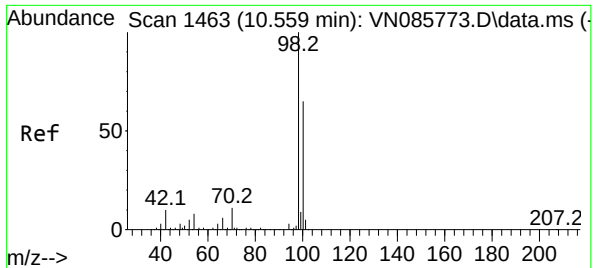
Tgt Ion:114 Resp: 415867
Ion Ratio Lower Upper
114 100
63 20.0 0.0 39.2
88 15.1 0.0 30.0



#35
Dibromofluoromethane
Concen: 54.942 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion:113 Resp: 149510
Ion Ratio Lower Upper
113 100
111 102.9 82.2 123.4
192 19.3 14.7 22.1

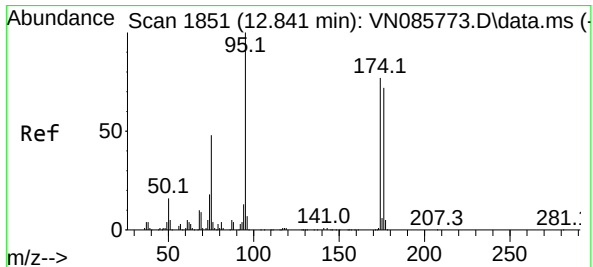
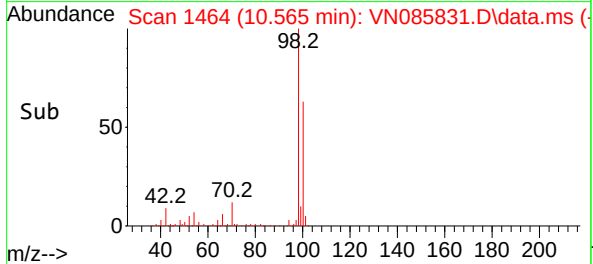
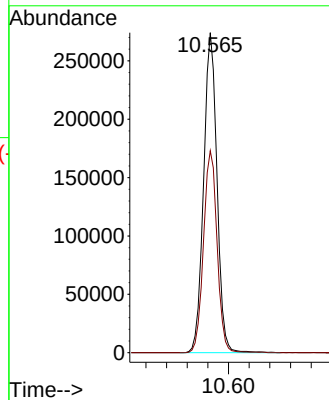
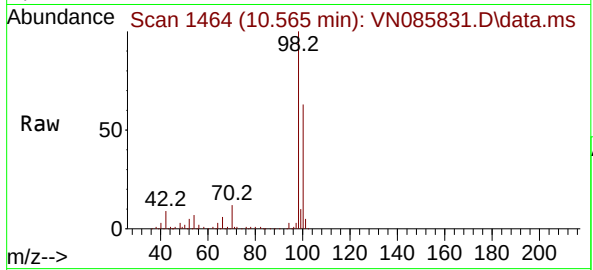




#50
Toluene-d8
Concen: 49.702 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

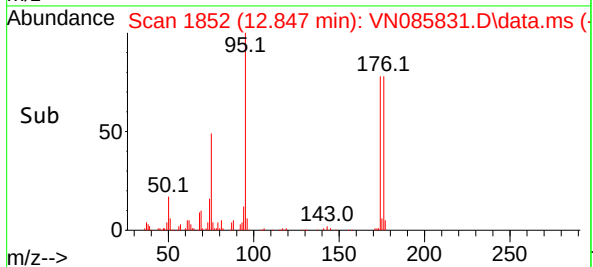
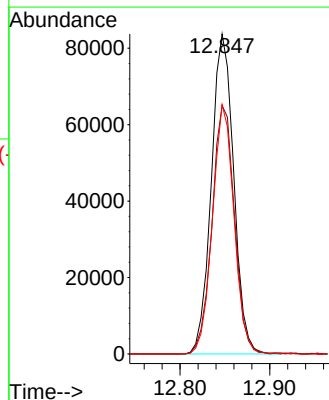
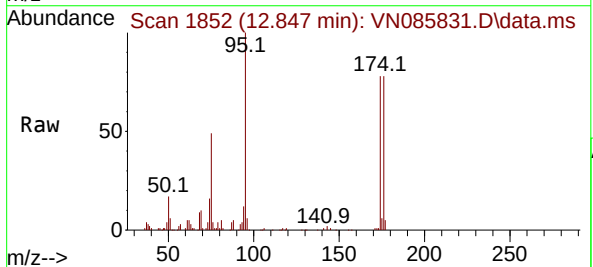
Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

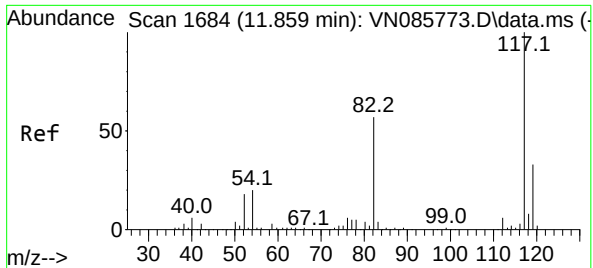
Tgt Ion: 98 Resp: 492086
Ion Ratio Lower Upper
98 100
100 64.1 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 44.314 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion: 95 Resp: 144556
Ion Ratio Lower Upper
95 100
174 78.3 0.0 152.4
176 75.3 0.0 146.6

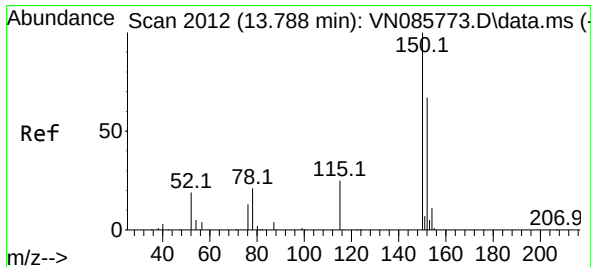
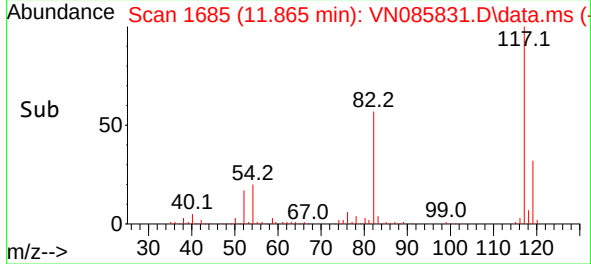
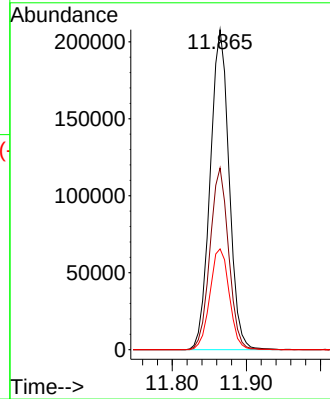
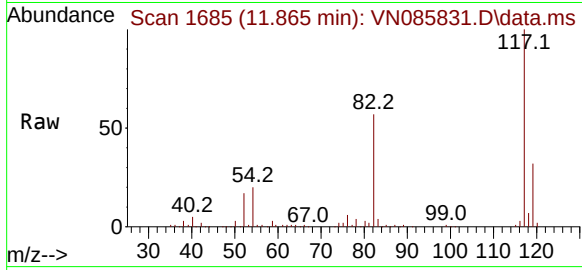




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

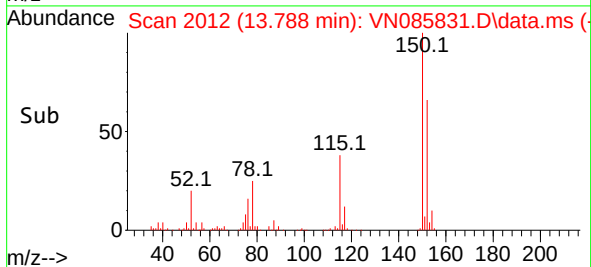
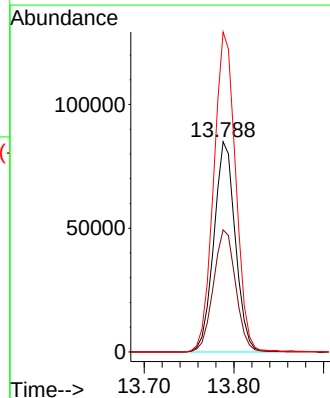
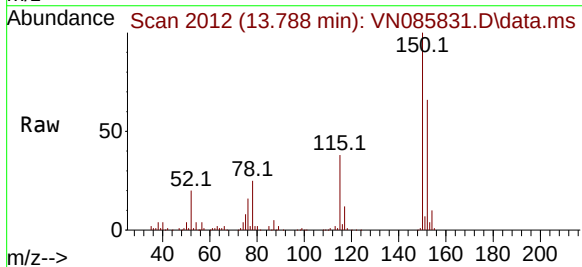
Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Tgt Ion:117 Resp: 368217
Ion Ratio Lower Upper
117 100
82 56.8 45.7 68.5
119 31.5 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion:152 Resp: 141296
Ion Ratio Lower Upper
152 100
115 60.3 30.4 91.3
150 155.6 0.0 345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Title : SW846 8260

Signal : TIC: VN085831.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.165	1044	1056	1060	rBV	205136	471936	37.31%	7.207%
2	8.224	1060	1066	1080	rVB	302270	684714	54.13%	10.456%
3	8.577	1116	1126	1135	rBV	210858	472035	37.32%	7.208%
4	8.665	1135	1141	1146	rBV2	4446	12824	1.01%	0.196%
5	8.788	1154	1162	1178	rVB3	15910	63502	5.02%	0.970%
6	9.100	1205	1215	1227	rBV	475024	962861	76.12%	14.703%
7	10.565	1454	1464	1479	rBV	696413	1264982	100.00%	19.317%
8	11.865	1677	1685	1699	rBV	614373	1091818	86.31%	16.672%
9	12.847	1844	1852	1866	rBV	404746	692703	54.76%	10.578%
10	13.788	2005	2012	2023	rBV	491642	831252	65.71%	12.694%

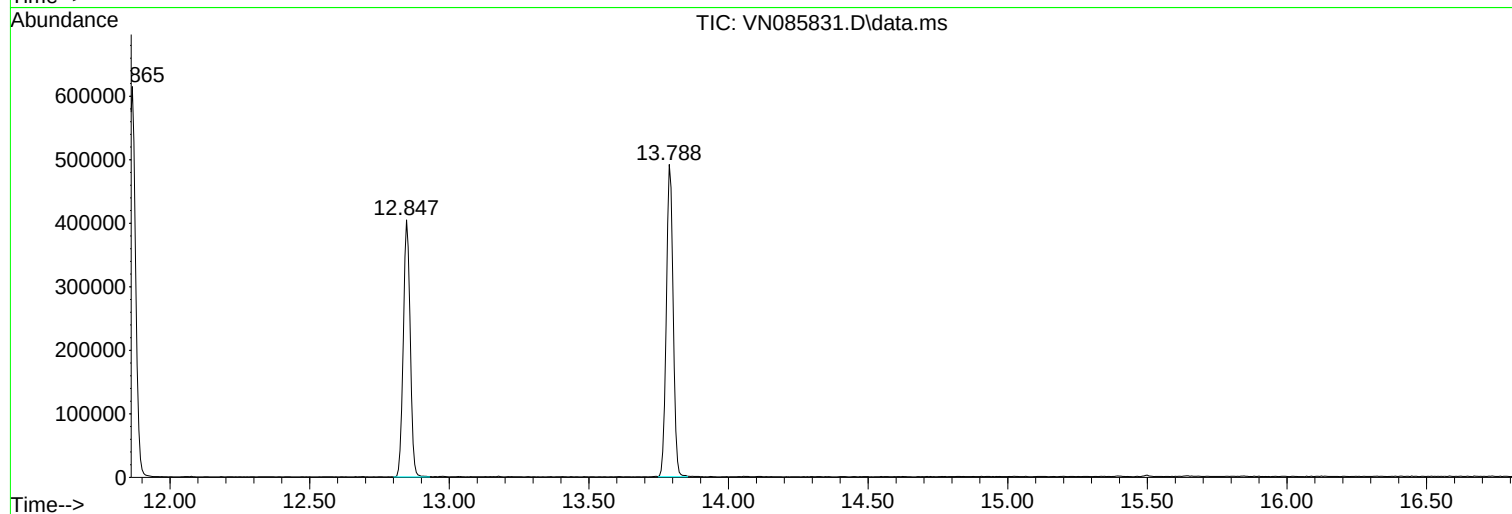
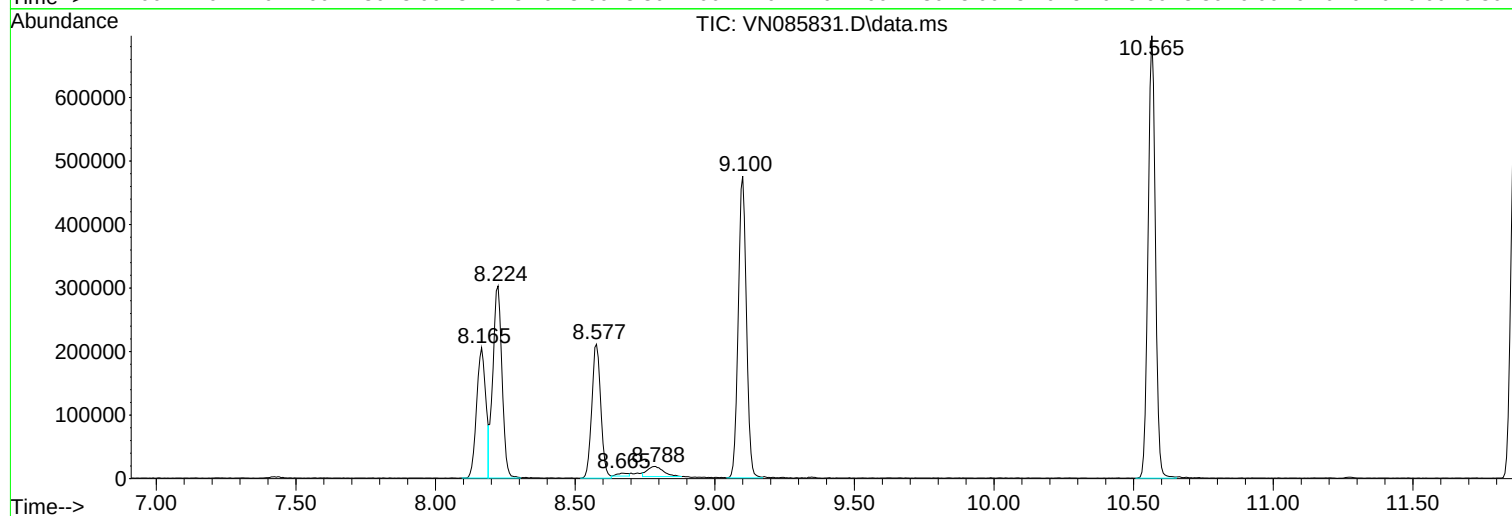
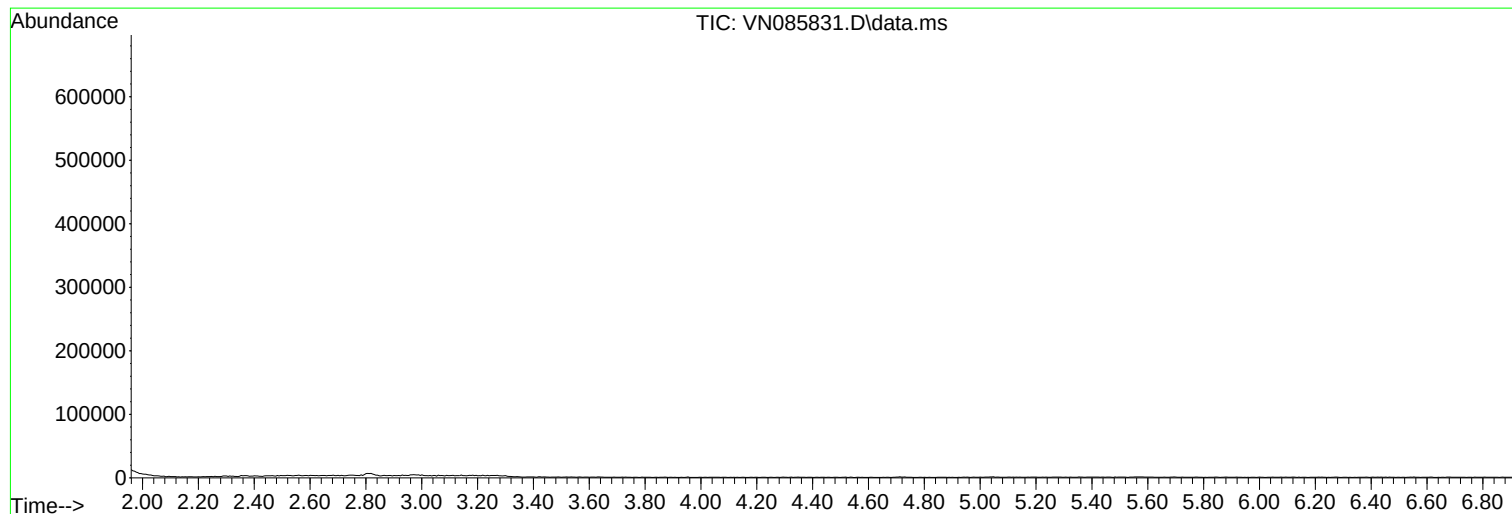
Sum of corrected areas: 6548627

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	
Project:	REAC Commodore			Date Received:	
Client Sample ID:	VN0221WBS01			SDG No.:	Q1405
Lab Sample ID:	VN0221WBS01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085805.D	1		02/21/25 16:06	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.4		0.21	1.00	ug/L
74-87-3	Chloromethane	17.9		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.3		0.34	1.00	ug/L
74-83-9	Bromomethane	17.9		1.40	5.00	ug/L
75-00-3	Chloroethane	17.5		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	17.9		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.5		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.0		0.26	1.00	ug/L
67-64-1	Acetone	96.0		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	16.7		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.2		0.16	1.00	ug/L
79-20-9	Methyl Acetate	18.7		0.60	1.00	ug/L
75-09-2	Methylene Chloride	18.3		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.7		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.4		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.6		1.60	5.00	ug/L
78-93-3	2-Butanone	97.1		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.0		0.25	1.00	ug/L
74-97-5	Bromochloromethane	21.3		0.18	1.00	ug/L
67-66-3	Chloroform	18.6		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	17.5		0.19	1.00	ug/L
71-43-2	Benzene	18.9		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.2		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	18.9		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	20.0		0.18	1.00	ug/L

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	
Project:	REAC Commodore			Date Received:	
Client Sample ID:	VN0221WBS01			SDG No.:	Q1405
Lab Sample ID:	VN0221WBS01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085805.D	1		02/21/25 16:06	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.4		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.1		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.4		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	19.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.5		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.7		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	40.6		0.31	2.00	ug/L
95-47-6	o-Xylene	19.5		0.14	1.00	ug/L
100-42-5	Styrene	19.3		0.16	1.00	ug/L
75-25-2	Bromoform	20.4		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	18.3		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.5		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.5		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.1		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.6		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.0		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.1		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.0		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.4		74 - 125	105%	SPK: 50
1868-53-7	Dibromofluoromethane	54.7		75 - 124	109%	SPK: 50
2037-26-5	Toluene-d8	55.9		86 - 113	112%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.6		77 - 121	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	294000	8.224			
540-36-3	1,4-Difluorobenzene	478000	9.1			
3114-55-4	Chlorobenzene-d5	411000	11.859			
3855-82-1	1,4-Dichlorobenzene-d4	207000	13.788			

Report of Analysis

Client:	TechLaw Consultants, Inc		Date Collected:	
Project:	REAC Commodore		Date Received:	
Client Sample ID:	VN0221WBS01		SDG No.:	Q1405
Lab Sample ID:	VN0221WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085805.D	1		02/21/25 16:06	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022125\
 Data File : VN085805.D
 Acq On : 21 Feb 2025 16:06
 Operator : JC\MD
 Sample : VN0221WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0221WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/24/2025
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 02:35:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	294095	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	478037	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	411262	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	206616	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	199834	52.411	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.820%			
35) Dibromofluoromethane	8.159	113	170959	54.654	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.300%			
50) Toluene-d8	10.565	98	636128	55.895	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 111.780%			
62) 4-Bromofluorobenzene	12.847	95	208604	55.632	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.260%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	73782	18.444	ug/l	96
3) Chloromethane	2.359	50	72009	17.939	ug/l	99
4) Vinyl Chloride	2.512	62	77660	18.272	ug/l	98
5) Bromomethane	2.959	94	48562	17.869	ug/l	94
6) Chloroethane	3.124	64	49262	17.499	ug/l	96
7) Trichlorofluoromethane	3.501	101	110162	17.902	ug/l	100
8) Diethyl Ether	3.959	74	34684	17.420	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	69423	19.517	ug/l	99
10) Methyl Iodide	4.589	142	77646	17.709	ug/l	98
11) Tert butyl alcohol	5.512	59	44197	94.246	ug/l	99
12) 1,1-Dichloroethene	4.342	96	58186	18.041	ug/l	98
13) Acrolein	4.177	56	72880	104.799	ug/l	97
14) Allyl chloride	5.018	41	74037	17.485	ug/l	96
15) Acrylonitrile	5.718	53	146830	96.312	ug/l	98
16) Acetone	4.424	43	115813	95.995	ug/l	96
17) Carbon Disulfide	4.712	76	160010	16.740	ug/l	96
18) Methyl Acetate	5.018	43	77447	18.664	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	174291	18.186	ug/l	98
20) Methylene Chloride	5.277	84	70973	18.293	ug/l	99
21) trans-1,2-Dichloroethene	5.789	96	61564	17.728	ug/l	92
22) Diisopropyl ether	6.665	45	182175	19.040	ug/l	99
23) Vinyl Acetate	6.600	43	593718	90.627	ug/l	99
24) 1,1-Dichloroethane	6.565	63	119613	18.390	ug/l	99
25) 2-Butanone	7.477	43	172255	97.050	ug/l	100
26) 2,2-Dichloropropane	7.489	77	104471	18.063	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	72385	17.977	ug/l	98
28) Bromochloromethane	7.806	49	57032	21.334	ug/l	96
29) Tetrahydrofuran	7.836	42	115320	100.616	ug/l	98
30) Chloroform	7.959	83	126455	18.604	ug/l	100
31) Cyclohexane	8.253	56	95788	17.589	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	111086	18.374	ug/l	98
36) 1,1-Dichloropropene	8.371	75	83583	18.880	ug/l	99
37) Ethyl Acetate	7.559	43	73203	20.093	ug/l	98
38) Carbon Tetrachloride	8.359	117	99358	18.889	ug/l	94
39) Methylcyclohexane	9.600	83	75991	17.473	ug/l	94
40) Benzene	8.600	78	268507	18.924	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
 Data File : VN085805.D
 Acq On : 21 Feb 2025 16:06
 Operator : JC\MD
 Sample : VN0221WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0221WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/24/2025
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 02:35:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	38061	19.543	ug/l	98
42) 1,2-Dichloroethane	8.665	62	89694	19.407	ug/l	99
43) Isopropyl Acetate	8.683	43	116020	17.794	ug/l	97
44) Trichloroethene	9.347	130	63535	18.237	ug/l	99
45) 1,2-Dichloropropane	9.618	63	65389	19.092	ug/l	98
46) Dibromomethane	9.700	93	47627	19.715	ug/l	99
47) Bromodichloromethane	9.883	83	97942	18.949	ug/l	96
48) Methyl methacrylate	9.677	41	51627	19.081	ug/l	98
49) 1,4-Dioxane	9.688	88	22433	436.005	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	366053	104.214	ug/l	99
52) Toluene	10.624	92	166657	20.037	ug/l	99
53) t-1,3-Dichloropropene	10.829	75	92500	19.354	ug/l	96
54) cis-1,3-Dichloropropene	10.306	75	100089	19.098	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	64245	19.427	ug/l	96
56) Ethyl methacrylate	10.871	69	80815	18.598	ug/l	97
57) 1,3-Dichloropropane	11.159	76	108637	19.679	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	156916	99.419	ug/l	99
59) 2-Hexanone	11.194	43	257303	106.481	ug/l	98
60) Dibromochloromethane	11.359	129	75526	19.614	ug/l	98
61) 1,2-Dibromoethane	11.465	107	60981	19.517	ug/l	99
64) Tetrachloroethene	11.100	164	62820	19.717	ug/l	96
65) Chlorobenzene	11.888	112	180333	19.141	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	66570	19.658	ug/l	98
67) Ethyl Benzene	11.959	91	283038	19.178	ug/l	97
68) m/p-Xylenes	12.071	106	227573	40.595	ug/l	100
69) o-Xylene	12.394	106	103973	19.518	ug/l	99
70) Styrene	12.406	104	177240	19.345	ug/l	99
71) Bromoform	12.576	173	51271	20.376	ug/l #	97
73) Isopropylbenzene	12.694	105	258663	18.273	ug/l	99
74) N-amyl acetate	12.488	43	90640	18.158	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	90037	18.484	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	82512m	17.978	ug/l	
77) Bromobenzene	12.976	156	71587	18.719	ug/l	98
78) n-propylbenzene	13.029	91	311564	19.219	ug/l	100
79) 2-Chlorotoluene	13.123	91	202439	18.690	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	228125	19.784	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	28460m	18.093	ug/l	
82) 4-Chlorotoluene	13.218	91	202212	18.832	ug/l	99
83) tert-Butylbenzene	13.435	119	178407	18.399	ug/l	96
84) 1,2,4-Trimethylbenzene	13.476	105	228570	20.036	ug/l	99
85) sec-Butylbenzene	13.612	105	257729	18.812	ug/l	100
86) p-Isopropyltoluene	13.723	119	209014	17.948	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	132273	18.461	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	132723	18.073	ug/l	99
89) n-Butylbenzene	14.053	91	164404	16.902	ug/l	96
90) Hexachloroethane	14.329	117	47005	18.117	ug/l	99
91) 1,2-Dichlorobenzene	14.100	146	128175	18.603	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	16055	17.950	ug/l	93
93) 1,2,4-Trichlorobenzene	15.388	180	52730	16.061	ug/l	98
94) Hexachlorobutadiene	15.494	225	31061	15.567	ug/l	99
95) Naphthalene	15.635	128	136619	15.157	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	52665	15.979	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085805.D
Acq On : 21 Feb 2025 16:06
Operator : JC\MD
Sample : VN0221WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 02:35:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

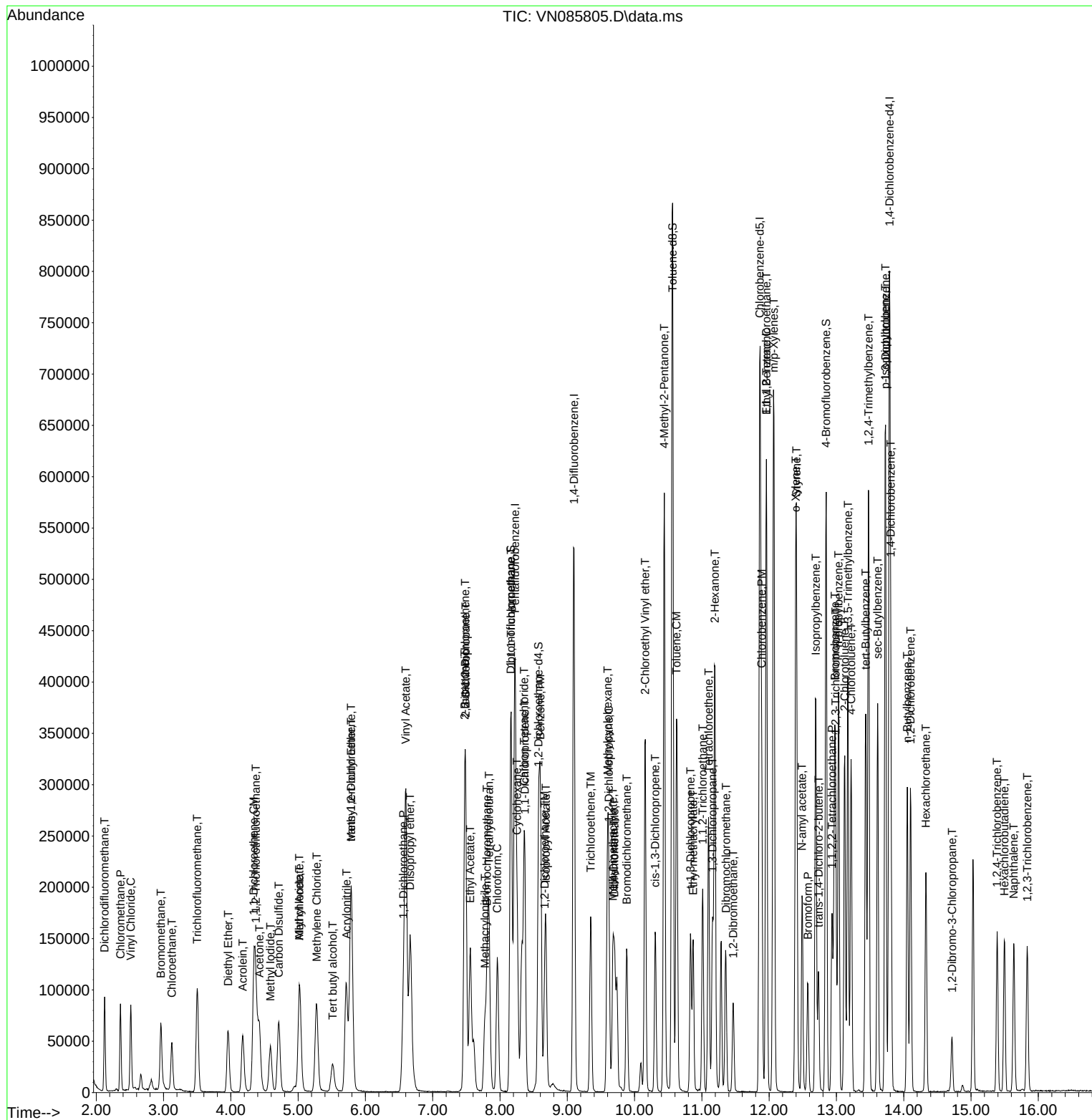
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
 Data File : VN085805.D
 Acq On : 21 Feb 2025 16:06
 Operator : JC\MD
 Sample : VN0221WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0221WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 02/24/2025
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 02:35:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration



Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	
Project:	REAC Commodore			Date Received:	
Client Sample ID:	VN0224WBS01			SDG No.:	Q1405
Lab Sample ID:	VN0224WBS01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085832.D	1		02/24/25 13:03	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.8		0.21	1.00	ug/L
74-87-3	Chloromethane	19.6		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	19.6		0.34	1.00	ug/L
74-83-9	Bromomethane	19.5		1.40	5.00	ug/L
75-00-3	Chloroethane	19.2		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.6		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.3		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	18.4		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.7		0.16	1.00	ug/L
79-20-9	Methyl Acetate	22.4		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.4		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.3		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.5		1.60	5.00	ug/L
78-93-3	2-Butanone	120		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.6		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.25	1.00	ug/L
74-97-5	Bromochloromethane	24.9		0.18	1.00	ug/L
67-66-3	Chloroform	20.8		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.7		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	17.8		0.19	1.00	ug/L
71-43-2	Benzene	20.3		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.7		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.8		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.6		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		0.75	5.00	ug/L
108-88-3	Toluene	21.1		0.18	1.00	ug/L

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	
Project:	REAC Commodore			Date Received:	
Client Sample ID:	VN0224WBS01			SDG No.:	Q1405
Lab Sample ID:	VN0224WBS01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085832.D	1		02/24/25 13:03	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.3		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.9		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.9		0.21	1.00	ug/L
591-78-6	2-Hexanone	120		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.3		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.3		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	20.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	20.1		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	43.0		0.31	2.00	ug/L
95-47-6	o-Xylene	20.6		0.14	1.00	ug/L
100-42-5	Styrene	20.5		0.16	1.00	ug/L
75-25-2	Bromoform	22.1		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	19.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.6		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.2		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.8		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.5		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.0		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.5		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	49.4		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		77 - 121	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	257000	8.224			
540-36-3	1,4-Difluorobenzene	436000	9.1			
3114-55-4	Chlorobenzene-d5	378000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	190000	13.788			

Report of Analysis

Client:	TechLaw Consultants, Inc		Date Collected:	
Project:	REAC Commodore		Date Received:	
Client Sample ID:	VN0224WBS01		SDG No.:	Q1405
Lab Sample ID:	VN0224WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085832.D	1		02/24/25 13:03	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022425\
 Data File : VN085832.D
 Acq On : 24 Feb 2025 13:03
 Operator : JC\MD
 Sample : VN0224WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0224WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:51:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	257358	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	436252	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	378131	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	189869	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	161971	48.544	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.080%		
35) Dibromofluoromethane	8.165	113	137284	48.092	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.180%		
50) Toluene-d8	10.565	98	512651	49.360	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.720%		
62) 4-Bromofluorobenzene	12.847	95	174876	51.104	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	102.200%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	69150	19.754	ug/l	100
3) Chloromethane	2.359	50	68791	19.584	ug/l	97
4) Vinyl Chloride	2.512	62	73012	19.631	ug/l	100
5) Bromomethane	2.953	94	46451	19.532	ug/l	97
6) Chloroethane	3.118	64	47196	19.158	ug/l	96
7) Trichlorofluoromethane	3.500	101	105770	19.642	ug/l	99
8) Diethyl Ether	3.959	74	34319	19.697	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	64634	20.765	ug/l	98
10) Methyl Iodide	4.589	142	73721	19.214	ug/l	95
11) Tert butyl alcohol	5.518	59	52251	127.326	ug/l	98
12) 1,1-Dichloroethene	4.342	96	54469	19.300	ug/l	92
13) Acrolein	4.183	56	62974	103.481	ug/l	95
14) Allyl chloride	5.024	41	80176	21.637	ug/l	87
15) Acrylonitrile	5.718	53	150940	113.141	ug/l	98
16) Acetone	4.424	43	115747	109.635	ug/l	96
17) Carbon Disulfide	4.718	76	153488	18.350	ug/l	97
18) Methyl Acetate	5.018	43	81482	22.439	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	173790	20.722	ug/l	100
20) Methylene Chloride	5.271	84	69243	20.395	ug/l	96
21) trans-1,2-Dichloroethene	5.789	96	58755	19.334	ug/l	95
22) Diisopropyl ether	6.671	45	180545	21.563	ug/l	96
23) Vinyl Acetate	6.600	43	583064	101.705	ug/l	100
24) 1,1-Dichloroethane	6.565	63	116963	20.550	ug/l	99
25) 2-Butanone	7.483	43	178921	115.195	ug/l	98
26) 2,2-Dichloropropane	7.488	77	100657	19.888	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	69180	19.633	ug/l	98
28) Bromochloromethane	7.812	49	58338	24.937	ug/l	98
29) Tetrahydrofuran	7.841	42	120300	119.944	ug/l	98
30) Chloroform	7.965	83	123507	20.764	ug/l	96
31) Cyclohexane	8.253	56	88180	18.503	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	103967	19.652	ug/l	95
36) 1,1-Dichloropropene	8.371	75	78040	19.316	ug/l	99
37) Ethyl Acetate	7.559	43	74240	22.330	ug/l	97
38) Carbon Tetrachloride	8.359	117	94174	19.618	ug/l	97
39) Methylcyclohexane	9.600	83	70553	17.776	ug/l	95
40) Benzene	8.600	78	263157	20.323	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085832.D
 Acq On : 24 Feb 2025 13:03
 Operator : JC\MD
 Sample : VN0224WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0224WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:51:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	38988	21.936	ug/l	97
42) 1,2-Dichloroethane	8.665	62	83774	19.862	ug/l	98
43) Isopropyl Acetate	8.688	43	128897	21.783	ug/l	97
44) Trichloroethene	9.347	130	59592	18.744	ug/l	98
45) 1,2-Dichloropropane	9.618	63	64913	20.768	ug/l	95
46) Dibromomethane	9.706	93	46181	20.947	ug/l	99
47) Bromodichloromethane	9.888	83	97351	20.639	ug/l	97
48) Methyl methacrylate	9.677	41	52939	21.440	ug/l	99
49) 1,4-Dioxane	9.688	88	24332	518.211	ug/l	99
51) 4-Methyl-2-Pentanone	10.441	43	379660	118.440	ug/l	98
52) Toluene	10.629	92	160367	21.128	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	88415	20.271	ug/l	98
54) cis-1,3-Dichloropropene	10.306	75	100164	20.943	ug/l	95
55) 1,1,2-Trichloroethane	11.018	97	63105	20.910	ug/l	94
56) Ethyl methacrylate	10.871	69	82410	20.627	ug/l	99
57) 1,3-Dichloropropane	11.159	76	105668	20.975	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	188414	128.915	ug/l	99
59) 2-Hexanone	11.194	43	270234	122.544	ug/l	99
60) Dibromochloromethane	11.359	129	74702	21.258	ug/l	99
61) 1,2-Dibromoethane	11.465	107	60711	21.292	ug/l	98
64) Tetrachloroethene	11.100	164	56809	19.393	ug/l	99
65) Chlorobenzene	11.888	112	173970	20.083	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	64531	20.726	ug/l	99
67) Ethyl Benzene	11.959	91	272303	20.068	ug/l	100
68) m/p-Xylenes	12.070	106	221861	43.044	ug/l	97
69) o-Xylene	12.394	106	101081	20.638	ug/l	99
70) Styrene	12.412	104	173747	20.539	ug/l	99
71) Bromoform	12.576	173	51137	22.103	ug/l #	97
73) Isopropylbenzene	12.694	105	249636	19.191	ug/l	98
74) N-amyl acetate	12.494	43	92165	20.092	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	92003	20.554	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	73556m	17.440	ug/l	
77) Bromobenzene	12.976	156	69907	19.892	ug/l	97
78) n-propylbenzene	13.035	91	302379	20.298	ug/l	99
79) 2-Chlorotoluene	13.123	91	194800	19.571	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	218142	20.587	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	32780	22.677	ug/l	93
82) 4-Chlorotoluene	13.217	91	197799	20.046	ug/l	100
83) tert-Butylbenzene	13.435	119	172236	19.330	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	221104	21.091	ug/l	98
85) sec-Butylbenzene	13.612	105	246640	19.591	ug/l	100
86) p-Isopropyltoluene	13.729	119	201013	18.730	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	126500	19.213	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	126841	18.796	ug/l	98
89) n-Butylbenzene	14.053	91	158686	17.753	ug/l	96
90) Hexachloroethane	14.329	117	45668	19.154	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	123530	19.510	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	16177	19.681	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	51385	17.032	ug/l	98
94) Hexachlorobutadiene	15.500	225	30590	16.683	ug/l	97
95) Naphthalene	15.641	128	143702	17.349	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	53096	17.530	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085832.D
Acq On : 24 Feb 2025 13:03
Operator : JC\MD
Sample : VN0224WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:51:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

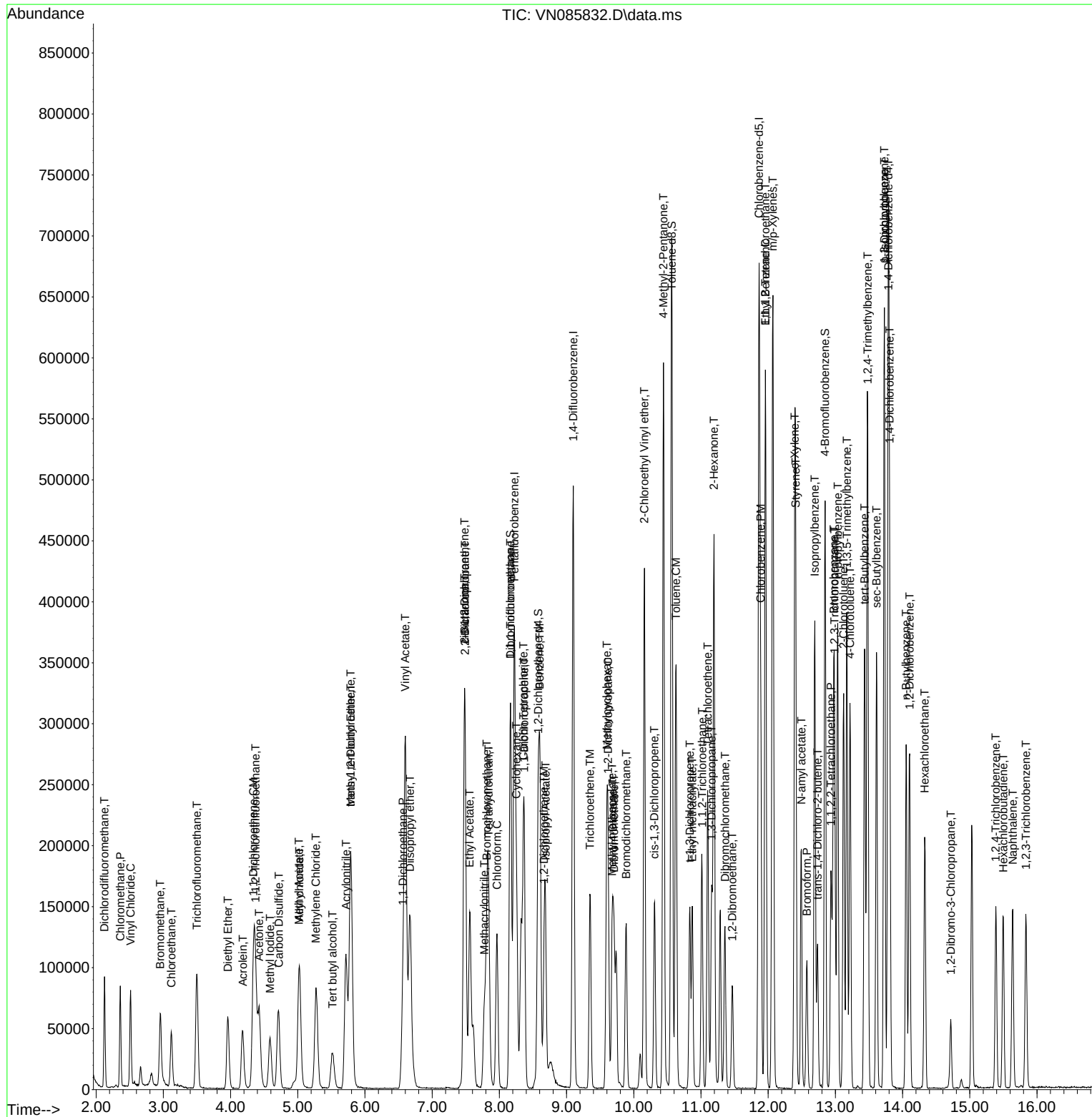
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085832.D
Acq On : 24 Feb 2025 13:03
Operator : JC\MD
Sample : VN0224WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBS01

Manual Integrations
APPROVED

Reviewed By : John Carlone 02/25/2025
Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:51:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VN0221WBSD01	SDG No.:	Q1405
Lab Sample ID:	VN0221WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085806.D	1		02/21/25 16:39	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.8		0.21	1.00	ug/L
74-87-3	Chloromethane	19.8		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	19.4		0.34	1.00	ug/L
74-83-9	Bromomethane	19.6		1.40	5.00	ug/L
75-00-3	Chloroethane	18.6		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.6		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.2		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	18.5		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.5		0.16	1.00	ug/L
79-20-9	Methyl Acetate	22.2		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.2		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.5		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.3		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.8		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.6		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.1		0.25	1.00	ug/L
74-97-5	Bromochloromethane	21.5		0.18	1.00	ug/L
67-66-3	Chloroform	20.7		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.7		0.19	1.00	ug/L
71-43-2	Benzene	21.1		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.1		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.5		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	21.6		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		0.75	5.00	ug/L
108-88-3	Toluene	21.8		0.18	1.00	ug/L

Report of Analysis

Client:	TechLaw Consultants, Inc			Date Collected:	
Project:	REAC Commodore			Date Received:	
Client Sample ID:	VN0221WBSD01			SDG No.:	Q1405
Lab Sample ID:	VN0221WBSD01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085806.D	1		02/21/25 16:39	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	21.9		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.7		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.1		0.21	1.00	ug/L
591-78-6	2-Hexanone	130		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	22.3		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	22.5		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	20.0		0.25	1.00	ug/L
108-90-7	Chlorobenzene	20.4		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	20.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	43.4		0.31	2.00	ug/L
95-47-6	o-Xylene	20.7		0.14	1.00	ug/L
100-42-5	Styrene	20.7		0.16	1.00	ug/L
75-25-2	Bromoform	22.3		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	20.0		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.3		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.4		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.2		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.4		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.5		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.6		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.9		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.2		74 - 125	106%	SPK: 50
1868-53-7	Dibromofluoromethane	54.9		75 - 124	110%	SPK: 50
2037-26-5	Toluene-d8	54.8		86 - 113	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.0		77 - 121	112%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	271000	8.224			
540-36-3	1,4-Difluorobenzene	440000	9.1			
3114-55-4	Chlorobenzene-d5	391000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	190000	13.788			

Report of Analysis

Client:	TechLaw Consultants, Inc		Date Collected:	
Project:	REAC Commodore		Date Received:	
Client Sample ID:	VN0221WBSD01		SDG No.:	Q1405
Lab Sample ID:	VN0221WBSD01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085806.D	1		02/21/25 16:39	VN022125

CAS Number	Parameter	Conc.	Qualifier	MDL	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_N\Data\VN022125\
 Data File : VN085806.D
 Acq On : 21 Feb 2025 16:39
 Operator : JC\MD
 Sample : VN0221WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0221WBSD01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/24/2025
 Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 02:36:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	271259	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	440205	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	391453	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	190177	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	187122	53.208	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.420%	
35) Dibromofluoromethane	8.165	113	158099	54.886	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 109.780%	
50) Toluene-d8	10.565	98	574729	54.840	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 109.680%	
62) 4-Bromofluorobenzene	12.847	95	193245	55.965	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 111.940%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	72907	19.760	ug/l	98
3) Chloromethane	2.359	50	73289	19.795	ug/l	100
4) Vinyl Chloride	2.512	62	76187	19.435	ug/l	98
5) Bromomethane	2.965	94	49048	19.568	ug/l	98
6) Chloroethane	3.124	64	48232	18.575	ug/l	99
7) Trichlorofluoromethane	3.501	101	111292	19.609	ug/l	98
8) Diethyl Ether	3.959	74	38414	20.918	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	65751	20.041	ug/l	99
10) Methyl Iodide	4.589	142	81570	20.170	ug/l	98
11) Tert butyl alcohol	5.518	59	48207	111.451	ug/l #	87
12) 1,1-Dichloroethene	4.336	96	57011	19.165	ug/l	98
13) Acrolein	4.177	56	82636	128.831	ug/l	98
14) Allyl chloride	5.024	41	76082	19.480	ug/l	97
15) Acrylonitrile	5.718	53	160179	113.913	ug/l	99
16) Acetone	4.418	43	121291	108.999	ug/l	100
17) Carbon Disulfide	4.712	76	162965	18.485	ug/l	99
18) Methyl Acetate	5.024	43	85060	22.224	ug/l	97
19) Methyl tert-butyl Ether	5.794	73	189648	21.454	ug/l	100
20) Methylene Chloride	5.271	84	72446	20.245	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	62389	19.478	ug/l	95
22) Diisopropyl ether	6.665	45	193433	21.919	ug/l	97
23) Vinyl Acetate	6.600	43	639849	105.891	ug/l	99
24) 1,1-Dichloroethane	6.565	63	122072	20.348	ug/l	96
25) 2-Butanone	7.477	43	186737	114.066	ug/l	99
26) 2,2-Dichloropropane	7.489	77	104904	19.665	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	74582	20.082	ug/l	98
28) Bromochloromethane	7.812	49	53063	21.520	ug/l	99
29) Tetrahydrofuran	7.836	42	126040	119.227	ug/l	100
30) Chloroform	7.965	83	129995	20.735	ug/l	100
31) Cyclohexane	8.253	56	89560	17.830	ug/l	94
32) 1,1,1-Trichloroethane	8.165	97	113478	20.350	ug/l	98
36) 1,1-Dichloropropene	8.371	75	83235	20.417	ug/l	99
37) Ethyl Acetate	7.559	43	76789	22.889	ug/l	99
38) Carbon Tetrachloride	8.359	117	99656	20.574	ug/l	97
39) Methylcyclohexane	9.594	83	75003	18.728	ug/l	99
40) Benzene	8.600	78	275128	21.057	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
 Data File : VN085806.D
 Acq On : 21 Feb 2025 16:39
 Operator : JC\MD
 Sample : VN0221WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0221WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/24/2025
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 02:36:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	41524	23.153	ug/l	95
42) 1,2-Dichloroethane	8.665	62	92611	21.760	ug/l	100
43) Isopropyl Acetate	8.683	43	127187	21.288	ug/l	98
44) Trichloroethene	9.347	130	64358	20.061	ug/l	97
45) 1,2-Dichloropropane	9.618	63	67925	21.537	ug/l	99
46) Dibromomethane	9.706	93	49856	22.411	ug/l	99
47) Bromodichloromethane	9.882	83	102783	21.595	ug/l	98
48) Methyl methacrylate	9.677	41	56086	22.511	ug/l	98
49) 1,4-Dioxane	9.688	88	23234	490.383	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	393967	121.800	ug/l	99
52) Toluene	10.624	92	166730	21.769	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	96228	21.865	ug/l	95
54) cis-1,3-Dichloropropene	10.306	75	104771	21.709	ug/l	95
55) 1,1,2-Trichloroethane	11.012	97	67318	22.106	ug/l	100
56) Ethyl methacrylate	10.871	69	89110	21.999	ug/l	98
57) 1,3-Dichloropropane	11.159	76	112757	22.181	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	190639	129.233	ug/l	99
59) 2-Hexanone	11.194	43	280978	126.272	ug/l	99
60) Dibromochloromethane	11.359	129	79166	22.326	ug/l	100
61) 1,2-Dibromoethane	11.465	107	64832	22.533	ug/l	100
64) Tetrachloroethene	11.100	164	60599	19.983	ug/l	96
65) Chlorobenzene	11.888	112	183284	20.438	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	68630	21.292	ug/l	98
67) Ethyl Benzene	11.959	91	286448	20.392	ug/l	97
68) m/p-Xylenes	12.071	106	231727	43.428	ug/l	100
69) o-Xylene	12.394	106	104847	20.678	ug/l	98
70) Styrene	12.406	104	181737	20.738	ug/l	99
71) Bromoform	12.576	173	53324	22.264	ug/l #	97
73) Isopropylbenzene	12.694	105	260408	19.987	ug/l	99
74) N-amyl acetate	12.488	43	98648	21.471	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	95362	21.270	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	84704m	20.051	ug/l	
77) Bromobenzene	12.976	156	73094	20.765	ug/l	97
78) n-propylbenzene	13.029	91	313650	21.020	ug/l	99
79) 2-Chlorotoluene	13.123	91	201377	20.199	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	227305	21.417	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	30218	20.871	ug/l	98
82) 4-Chlorotoluene	13.218	91	209124	21.159	ug/l	99
83) tert-Butylbenzene	13.435	119	178799	20.034	ug/l	96
84) 1,2,4-Trimethylbenzene	13.476	105	226066	21.529	ug/l	100
85) sec-Butylbenzene	13.612	105	258461	20.497	ug/l	100
86) p-Isopropyltoluene	13.729	119	213734	19.811	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	134299	20.364	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	130093	19.247	ug/l	99
89) n-Butylbenzene	14.053	91	167026	18.656	ug/l	98
90) Hexachloroethane	14.329	117	46008	19.265	ug/l	99
91) 1,2-Dichlorobenzene	14.100	146	129302	20.389	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	16909	20.538	ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	56095	18.563	ug/l	98
94) Hexachlorobutadiene	15.494	225	30441	16.575	ug/l	100
95) Naphthalene	15.641	128	151232	18.229	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	57280	18.881	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085806.D
Acq On : 21 Feb 2025 16:39
Operator : JC\MD
Sample : VN0221WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 02:36:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

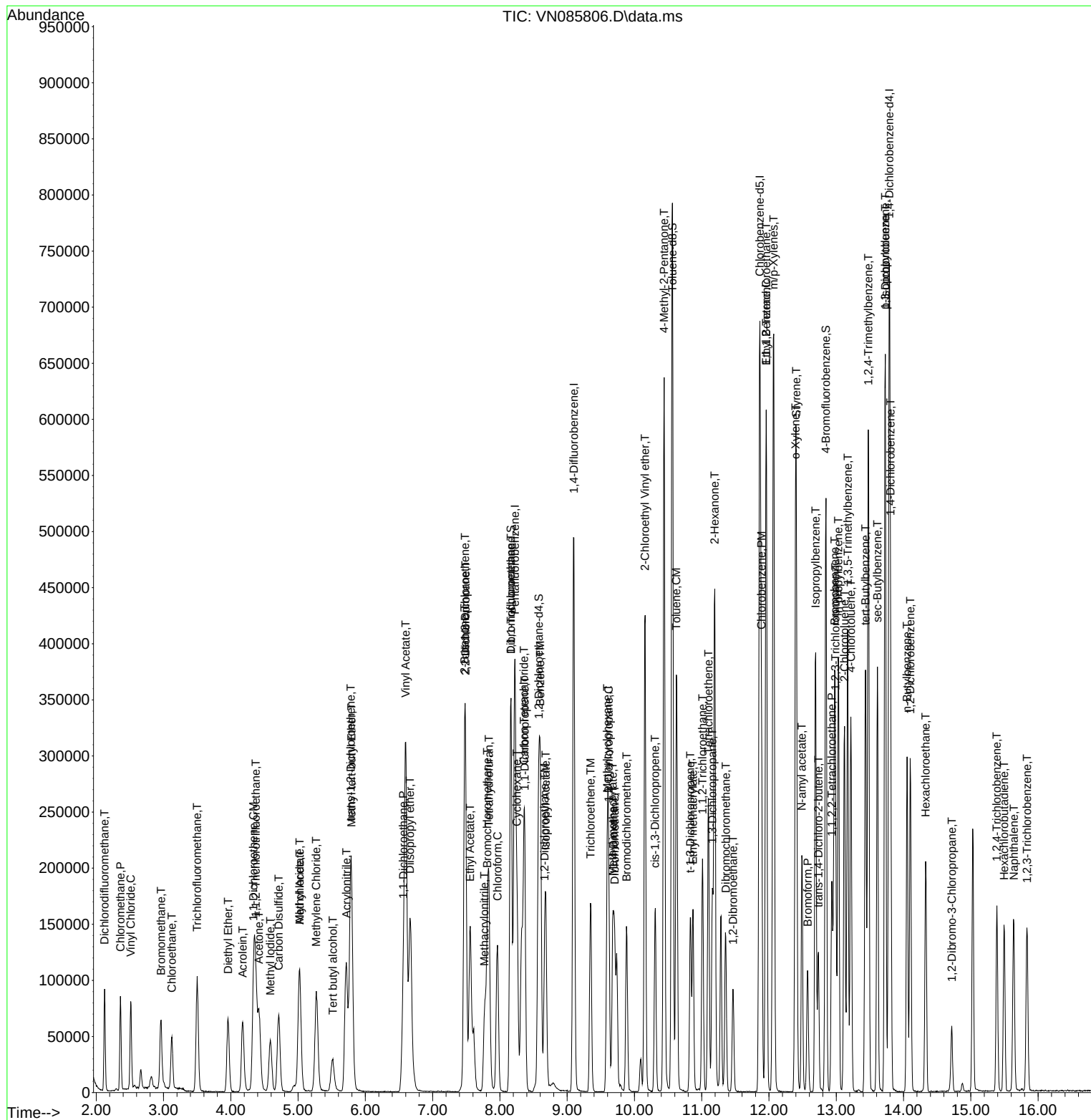
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
Data File : VN085806.D
Acq On : 21 Feb 2025 16:39
Operator : JC\MD
Sample : VN0221WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Manual Integrations

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 02:36:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VN021825	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN085772.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:09 AM	MMDadoda	2/19/2025 12:44:43 PM	Peak Integrated by Software
VSTDICCC050	VN085773.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:14 AM	MMDadoda	2/19/2025 12:44:47 PM	Peak Integrated by Software
VSTDICC010	VN085775.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:23 AM	MMDadoda	2/19/2025 12:44:56 PM	Peak Integrated by Software
VSTDICC010	VN085775.D	Vinyl Acetate	JOHN	2/19/2025 9:44:23 AM	MMDadoda	2/19/2025 12:44:56 PM	Peak Integrated by Software
VSTDICC005	VN085776.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:27 AM	MMDadoda	2/19/2025 12:45:01 PM	Peak Integrated by Software
VSTDICC005	VN085776.D	Vinyl Acetate	JOHN	2/19/2025 9:44:27 AM	MMDadoda	2/19/2025 12:45:01 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	1,4-Dichlorobenzene	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	2,2-Dichloropropane	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Allyl chloride	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Diethyl Ether	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Vinyl Acetate	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC020	VN085779.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:37 AM	MMDadoda	2/19/2025 12:45:09 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:	VN021825	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VN085780.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:42 AM	MMDadoda	2/19/2025 12:45:13 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN022125

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085802.D	1,2,3-Trichloropropane	JOHN	2/24/2025 9:46:36 AM	MMDadoda	2/24/2025 1:33:22 PM	Peak Integrated by Software
VSTDCCC050	VN085802.D	trans-1,4-Dichloro-2-but ene	JOHN	2/24/2025 9:46:36 AM	MMDadoda	2/24/2025 1:33:22 PM	Peak Integrated by Software
VN0221WBS01	VN085805.D	1,2,3-Trichloropropane	JOHN	2/24/2025 9:46:41 AM	MMDadoda	2/24/2025 1:33:23 PM	Peak Integrated by Software
VN0221WBS01	VN085805.D	trans-1,4-Dichloro-2-but ene	JOHN	2/24/2025 9:46:41 AM	MMDadoda	2/24/2025 1:33:23 PM	Peak Integrated by Software
VN0221WBSD01	VN085806.D	1,2,3-Trichloropropane	JOHN	2/24/2025 9:46:46 AM	MMDadoda	2/24/2025 1:33:25 PM	Peak Integrated by Software
Q1405-01	VN085821.D	Acetone	JOHN	2/24/2025 9:47:57 AM	MMDadoda	2/24/2025 1:33:30 PM	Peak Integrated by Software
VSTDCCC050	VN085827.D	1,2,3-Trichloropropane	JOHN	2/24/2025 9:48:07 AM	MMDadoda	2/24/2025 1:33:33 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vn022425

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085829.D	1,2,3-Trichloropropane	JOHN	2/25/2025 9:39:52 AM	MMDadoda	2/25/2025 2:29:16 PM	Peak Integrated by Software
VN0224WBS01	VN085832.D	1,2,3-Trichloropropane	JOHN	2/25/2025 9:39:56 AM	MMDadoda	2/25/2025 2:29:13 PM	Peak Integrated by Software
Q1405-04	VN085836.D	1,1,2-Trichlorotrifluoroethane	JOHN	2/25/2025 9:40:05 AM	MMDadoda	2/25/2025 2:29:12 PM	Peak Integrated by Software
VSTDCCC050	VN085845.D	1,2,3-Trichloropropane	JOHN	2/25/2025 9:40:17 AM	MMDadoda	2/25/2025 2:29:08 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN021825

Review By	John Carlone	Review On	2/19/2025 9:44:55 AM
Supervise By	Maresh Dadoda	Supervise On	2/19/2025 1:34:51 PM
SubDirectory	VN021825	HP Acquire Method	HP Processing Method 82N021825W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133068		
Initial Calibration Stds	VP133070,VP133071,VP133072,VP133073,VP133074,VP133075		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP133076		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085771.D	18 Feb 2025 10:35	JC\MD	Ok
2	VSTDICC100	VN085772.D	18 Feb 2025 11:09	JC\MD	Ok,M
3	VSTDICCC050	VN085773.D	18 Feb 2025 11:32	JC\MD	Ok,M
4	VSTDICC020	VN085774.D	18 Feb 2025 11:56	JC\MD	Not Ok
5	VSTDICC010	VN085775.D	18 Feb 2025 12:20	JC\MD	Ok,M
6	VSTDICC005	VN085776.D	18 Feb 2025 12:43	JC\MD	Ok,M
7	VSTDICC001	VN085777.D	18 Feb 2025 13:07	JC\MD	Ok,M
8	IBLK	VN085778.D	18 Feb 2025 13:54	JC\MD	Ok
9	VSTDICC020	VN085779.D	18 Feb 2025 14:18	JC\MD	Ok,M
10	VSTDICV050	VN085780.D	18 Feb 2025 16:28	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN022125

Review By	John Carlone	Review On	2/24/2025 10:03:22 AM
Supervise By	Maresh Dadoda	Supervise On	2/24/2025 1:33:42 PM
SubDirectory	VN022125	HP Acquire Method	HP Processing Method 82N021825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133097		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133098,VP133099		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085801.D	21 Feb 2025 14:10	JC\MD	Ok
2	VSTDCCC050	VN085802.D	21 Feb 2025 14:43	JC\MD	Ok,M
3	VN0221MBL01	VN085803.D	21 Feb 2025 15:18	JC\MD	Ok
4	VN0221WBL01	VN085804.D	21 Feb 2025 15:42	JC\MD	Ok
5	VN0221WBS01	VN085805.D	21 Feb 2025 16:06	JC\MD	Ok,M
6	VN0221WBSD01	VN085806.D	21 Feb 2025 16:39	JC\MD	Ok,M
7	PB166809TB	VN085807.D	21 Feb 2025 17:03	JC\MD	Ok
8	PB166809ZHE#01	VN085808.D	21 Feb 2025 17:27	JC\MD	Ok
9	PB166809ZHE#02	VN085809.D	21 Feb 2025 17:51	JC\MD	Ok
10	PB166809ZHE#03	VN085810.D	21 Feb 2025 18:15	JC\MD	Ok
11	PB166809ZHE#04	VN085811.D	21 Feb 2025 18:39	JC\MD	Ok
12	PB166809ZHE#05	VN085812.D	21 Feb 2025 19:02	JC\MD	Ok
13	PB166809ZHE#06	VN085813.D	21 Feb 2025 19:26	JC\MD	Ok
14	Q1356-11	VN085814.D	21 Feb 2025 19:50	JC\MD	Not Ok
15	Q1393-02	VN085815.D	21 Feb 2025 20:14	JC\MD	Ok,M
16	Q1395-02	VN085816.D	21 Feb 2025 20:38	JC\MD	Ok
17	Q1397-02	VN085817.D	21 Feb 2025 21:02	JC\MD	Ok
18	Q1397-04	VN085818.D	21 Feb 2025 21:26	JC\MD	Ok,M
19	Q1397-06	VN085819.D	21 Feb 2025 21:50	JC\MD	Ok
20	IBLK	VN085820.D	21 Feb 2025 22:13	JC\MD	Ok
21	Q1405-01	VN085821.D	21 Feb 2025 22:37	JC\MD	Ok,M

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN022125

Review By	John Carlone	Review On	2/24/2025 10:03:22 AM
Supervise By	Mahesh Dadoda	Supervise On	2/24/2025 1:33:42 PM
SubDirectory	VN022125	HP Acquire Method	HP Processing Method 82N021825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133097		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133098,VP133099		

22	Q1405-02	VN085822.D	21 Feb 2025 23:01	JC\MD	Dilution
23	Q1405-03	VN085823.D	21 Feb 2025 23:25	JC\MD	ReRun
24	Q1405-04	VN085824.D	21 Feb 2025 23:49	JC\MD	Not Ok
25	Q1405-05	VN085825.D	22 Feb 2025 00:12	JC\MD	Not Ok
26	Q1405-06	VN085826.D	22 Feb 2025 00:36	JC\MD	Ok
27	VSTDCCC050	VN085827.D	22 Feb 2025 01:00	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN022425

Review By	John Carlone	Review On	2/25/2025 9:55:02 AM
Supervise By	Maresh Dadoda	Supervise On	2/25/2025 2:29:22 PM
SubDirectory	VN022425	HP Acquire Method	HP Processing Method 82N021825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133126		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133127,VP133128		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085828.D	24 Feb 2025 10:50	JC\MD	Ok
2	VSTDCCC050	VN085829.D	24 Feb 2025 11:37	JC\MD	Ok,M
3	VN0224MBL01	VN085830.D	24 Feb 2025 12:15	JC\MD	Ok
4	VN0224WBL01	VN085831.D	24 Feb 2025 12:39	JC\MD	Ok
5	VN0224WBS01	VN085832.D	24 Feb 2025 13:03	JC\MD	Ok,M
6	VN0224WBSD01	VN085833.D	24 Feb 2025 13:36	JC\MD	Ok,M
7	Q1405-02DL	VN085834.D	24 Feb 2025 14:00	JC\MD	Ok
8	Q1405-03	VN085835.D	24 Feb 2025 14:24	JC\MD	Ok
9	Q1405-04	VN085836.D	24 Feb 2025 14:49	JC\MD	Ok,M
10	Q1405-05	VN085837.D	24 Feb 2025 15:13	JC\MD	Ok
11	Q1405-11	VN085838.D	24 Feb 2025 15:37	JC\MD	Ok
12	Q1415-05	VN085839.D	24 Feb 2025 16:01	JC\MD	ReRun
13	Q1405-07	VN085840.D	24 Feb 2025 16:26	JC\MD	Ok
14	Q1405-08	VN085841.D	24 Feb 2025 16:50	JC\MD	Ok
15	Q1405-09	VN085842.D	24 Feb 2025 17:14	JC\MD	Ok
16	Q1405-10	VN085843.D	24 Feb 2025 17:38	JC\MD	Ok
17	Q1415-06	VN085844.D	24 Feb 2025 18:02	JC\MD	Ok
18	VSTDCCC050	VN085845.D	24 Feb 2025 18:26	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN021825

Review By	John Carlone	Review On	2/19/2025 9:44:55 AM
Supervise By	Maresh Dadoda	Supervise On	2/19/2025 1:34:51 PM
SubDirectory	VN021825	HP Acquire Method	HP Processing Method 82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133068 VP133070,VP133071,VP133072,VP133073,VP133074,VP133075 VP133076

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085771.D	18 Feb 2025 10:35		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN085772.D	18 Feb 2025 11:09	Comp.#43 is on Linear Regression	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN085773.D	18 Feb 2025 11:32	Comp.#56,58,70,86 is on Quadratic Regression	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN085774.D	18 Feb 2025 11:56	Not used	JC\MD	Not Ok
5	VSTDICC010	VSTDICC010	VN085775.D	18 Feb 2025 12:20		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN085776.D	18 Feb 2025 12:43	%D failed for Comp. #58 in 01PPB, 05PPB and 20PPB	JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN085777.D	18 Feb 2025 13:07		JC\MD	Ok,M
8	IBLK	IBLK	VN085778.D	18 Feb 2025 13:54		JC\MD	Ok
9	VSTDICC020	VSTDICC020	VN085779.D	18 Feb 2025 14:18		JC\MD	Ok,M
10	VSTDICV050	ICVVN021825	VN085780.D	18 Feb 2025 16:28	ICV Failed for comp. #95	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN022125

Review By	John Carlone	Review On	2/24/2025 10:03:22 AM
Supervise By	Mahesh Dadoda	Supervise On	2/24/2025 1:33:42 PM
SubDirectory	VN022125	HP Acquire Method	HP Processing Method 82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133097
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133098,VP133099

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085801.D	21 Feb 2025 14:10		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085802.D	21 Feb 2025 14:43	V13516	JC\MD	Ok,M
3	VN0221MBL01	VN0221MBL01	VN085803.D	21 Feb 2025 15:18		JC\MD	Ok
4	VN0221WBL01	VN0221WBL01	VN085804.D	21 Feb 2025 15:42		JC\MD	Ok
5	VN0221WBS01	VN0221WBS01	VN085805.D	21 Feb 2025 16:06		JC\MD	Ok,M
6	VN0221WBSD01	VN0221WBSD01	VN085806.D	21 Feb 2025 16:39		JC\MD	Ok,M
7	PB166809TB	PB166809TB	VN085807.D	21 Feb 2025 17:03		JC\MD	Ok
8	PB166809ZHE#01	PB166809ZHE#01	VN085808.D	21 Feb 2025 17:27		JC\MD	Ok
9	PB166809ZHE#02	PB166809ZHE#02	VN085809.D	21 Feb 2025 17:51		JC\MD	Ok
10	PB166809ZHE#03	PB166809ZHE#03	VN085810.D	21 Feb 2025 18:15		JC\MD	Ok
11	PB166809ZHE#04	PB166809ZHE#04	VN085811.D	21 Feb 2025 18:39		JC\MD	Ok
12	PB166809ZHE#05	PB166809ZHE#05	VN085812.D	21 Feb 2025 19:02		JC\MD	Ok
13	PB166809ZHE#06	PB166809ZHE#06	VN085813.D	21 Feb 2025 19:26		JC\MD	Ok
14	Q1356-11	CARBON-SOLID	VN085814.D	21 Feb 2025 19:50	vial B pH#5.0 Already analyzed	JC\MD	Not Ok
15	Q1393-02	SOIL-COMP	VN085815.D	21 Feb 2025 20:14	vial A pH#5.0	JC\MD	Ok,M
16	Q1395-02	BEL-25-0005	VN085816.D	21 Feb 2025 20:38	vial A pH#5.0	JC\MD	Ok
17	Q1397-02	STOCK-PILE	VN085817.D	21 Feb 2025 21:02	vial A pH#5.0	JC\MD	Ok
18	Q1397-04	TP7	VN085818.D	21 Feb 2025 21:26	vial A pH#5.0	JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN022125

Review By	John Carlone	Review On	2/24/2025 10:03:22 AM
Supervise By	Maresh Dadoda	Supervise On	2/24/2025 1:33:42 PM
SubDirectory	VN022125	HP Acquire Method	HP Processing Method 82N021825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133097		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133098,VP133099		

19	Q1397-06	TP8	VN085819.D	21 Feb 2025 21:50	vial A pH#5.0	JC\MD	Ok
20	IBLK	IBLK	VN085820.D	21 Feb 2025 22:13		JC\MD	Ok
21	Q1405-01	MW-01-021325	VN085821.D	21 Feb 2025 22:37	vial A pH<2	JC\MD	Ok,M
22	Q1405-02	MW-04-021325	VN085822.D	21 Feb 2025 23:01	vial A pH<2 Need 250X	JC\MD	Dilution
23	Q1405-03	MW-20D-021325	VN085823.D	21 Feb 2025 23:25	vial A pH<2 E flage in previous sample	JC\MD	ReRun
24	Q1405-04	MW-20D-FD-021325	VN085824.D	21 Feb 2025 23:49	vial A pH<2 Confirm concentration.	JC\MD	Not Ok
25	Q1405-05	MW-22-021925	VN085825.D	22 Feb 2025 00:12	vial A pH<2 Confirm concentration.	JC\MD	Not Ok
26	Q1405-06	MW-23-021425	VN085826.D	22 Feb 2025 00:36	vial A pH<2	JC\MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VN085827.D	22 Feb 2025 01:00		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN022425

Review By	John Carlone	Review On	2/25/2025 9:55:02 AM
Supervise By	Maresh Dadoda	Supervise On	2/25/2025 2:29:22 PM
SubDirectory	VN022425	HP Acquire Method	HP Processing Method 82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133126
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133127,VP133128

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085828.D	24 Feb 2025 10:50		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085829.D	24 Feb 2025 11:37	V13516	JC\MD	Ok,M
3	VN0224MBL01	VN0224MBL01	VN085830.D	24 Feb 2025 12:15		JC\MD	Ok
4	VN0224WBL01	VN0224WBL01	VN085831.D	24 Feb 2025 12:39		JC\MD	Ok
5	VN0224WBS01	VN0224WBS01	VN085832.D	24 Feb 2025 13:03		JC\MD	Ok,M
6	VN0224WBSD01	VN0224WBSD01	VN085833.D	24 Feb 2025 13:36		JC\MD	Ok,M
7	Q1405-02DL	MW-04-021325DL	VN085834.D	24 Feb 2025 14:00	vial B pH<2	JC\MD	Ok
8	Q1405-03	MW-20D-021325	VN085835.D	24 Feb 2025 14:24	vial B pH<2	JC\MD	Ok
9	Q1405-04	MW-20D-FD-021325	VN085836.D	24 Feb 2025 14:49	vial B pH<2	JC\MD	Ok,M
10	Q1405-05	MW-22-021925	VN085837.D	24 Feb 2025 15:13	vial B pH<2	JC\MD	Ok
11	Q1405-11	TB-02-021325	VN085838.D	24 Feb 2025 15:37	vial A pH<2 TB	JC\MD	Ok
12	Q1415-05	FB02222025	VN085839.D	24 Feb 2025 16:01	vial A pH<2 FB;hit of com.#16	JC\MD	ReRun
13	Q1405-07	MW-26-021825	VN085840.D	24 Feb 2025 16:26	vial A pH<2	JC\MD	Ok
14	Q1405-08	MW-11R-021325	VN085841.D	24 Feb 2025 16:50	vial A pH<2	JC\MD	Ok
15	Q1405-09	MW-13-021925	VN085842.D	24 Feb 2025 17:14	vial A pH<2	JC\MD	Ok
16	Q1405-10	MW-30S-021825	VN085843.D	24 Feb 2025 17:38	vial A pH<2	JC\MD	Ok
17	Q1415-06	B-173-GW01	VN085844.D	24 Feb 2025 18:02	vial A pH<2	JC\MD	Ok
18	VSTDCCC050	VSTDCCC050EC	VN085845.D	24 Feb 2025 18:26		JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN022425

Review By	John Carlone	Review On	2/25/2025 9:55:02 AM
Supervise By	Mahesh Dadoda	Supervise On	2/25/2025 2:29:22 PM
SubDirectory	VN022425	HP Acquire Method	HP Processing Method 82N021825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133126		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133127,VP133128		

M : Manual Integration



SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q1405/06

COC Number: 02

CLIENT INFORMATION

COMPANY: TechLaw Consultants, Inc.
ADDRESS: 14840 Conference Center Drive
CITY: Chantilly STATE: VA ZIP: 20151
ATTENTION: Jon Dziekan / Alex Kantner
PHONE: 571-538-2270 FAX:

PROJECT INFORMATION

PROJECT NAME: REAC Commodore
PROJECT #: 83150-F0086 LOCATION: Audubon, PA
PROJECT MANAGER: Jon Dziekan / Alex Kantner
E-MAIL: jonathan.dziekan@techlawconsultants.com
PHONE: 571-538-2270 FAX:

BILLING INFORMATION

BILL TO: See Contract for Billing Information

ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

8260D	1633								
1	2	3	4	5	6	7	8	9	

DATA TURNAROUND INFORMATION

FAX: _____ DAYS*
HARD COPY: _____ DAYS*
EDD _____ DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD Format _____

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles										<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
			COMP	GRAB	DATE	TIME		A	E								
1.	MW-01-021325	GW		/	2/13/25	0925	3	2	1								
2.	MW-04-021325	GW		/	2/13/25	1055	3	2	1								
3.	MW-20D-021325	GW		/	2/13/25	1329	3	2	1								
4.	MW-20D-FD-021325	GW		/	2/13/25	1329	3	2	1								
5.	MW-22-021925	GW		/	2/19/25	1650	3	2	1								
6.	MW-23-021425	GW		/	2/14/25	1425	3	2	1								
7.	MW-26-021325	GW		/	2/13/25	1500	3	2	1								
8.	MOS-11R-021325	GW		/	2/13/25	1443	3	2	1								
9.	MOS-13-021925	GW		/	2/19/25	1032	3	2	1								
10.	MW-30S-021825	GW		/	2/18/25	1605	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp. <u>3.1C</u> MeOH extraction requires an additional 4oz. Jar for percent solid Comments:
1. <u>[Signature]</u>	2/20/25 0900	1. <u>[Signature]</u>	
RELINQUISHED BY	DATE/TIME	RECEIVED BY	
2.		2.	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	
3.		3.	

Page 1 of 2

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☒ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete
☒ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY



284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q1405 / 06

COC Number: 02

CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION																					
COMPANY: TechLaw Consultants, Inc.		PROJECT NAME: REAC Commodore		BILL TO: See Contract for Billing Information																					
ADDRESS: 14840 Conference Center Drive		PROJECT #: 83150-F0066 LOCATION: Audubon, PA		ADDRESS:																					
CITY: Chantilly STATE: VA ZIP: 20151		PROJECT MANAGER: Jon Dziekan / Alex Kantner		CITY: STATE: ZIP:																					
ATTENTION: Jon Dziekan / Alex Kantner		E-MAIL: jonathan.dziekan@techlawconsultants.com		ATTENTION: PHONE:																					
PHONE: 571-538-2270 FAX:		PHONE: 571-538-2270 FAX:																							
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																					
FAX: _____ DAYS* HARD COPY: _____ DAYS* EDD _____ DAYS* * TO BE APPROVED BY ALLIANCE STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____		<table border="1"><tr><td>8260D</td><td>1633</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td></td></tr></table>		8260D	1633									1	2	3	4	5	6	7	8	9	
8260D	1633																								
1	2	3	4	5	6	7	8	9																	
CHEMTECH SAMPLE ID		PROJECT SAMPLE IDENTIFICATION		SAMPLE MATRIX		SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles		PRESERVATIVES		COMMENTS											
						COMP GRAB		DATE TIME				A E		← Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other											
												1 2 3 4 5 6 7 8 9													
1.	EB-04-021825	Blank			1	2/18/25	1300	1		1					Equip Blank										
2.	FB-01-021925	Blank			1	2/18/25	1600	1		1					Field Blank										
3.	EB-03-021825	Blank			1	2/18/25	1532	1		1					Equip Blank										
4.	TB-02-021325	Blank			1	2/18/25	0800	2	2						Trip Blank										
5.																									
6.																									
7.																									
8.																									
9.																									
10.																									
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY																									
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY		Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.1C MeOH extraction requires an additional 4oz. Jar for percent solid																			
1. [Signature]		2/18/25 0900		1. [Signature]		Comments:																			
RELINQUISHED BY		DATE/TIME		RECEIVED BY																					
2.				2.																					
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY		SHIPPED VIA: CLIENT: ☐ Hand Delivered ☒ Overnight																			
3.				3.		ALLIANCE: ☐ Picked Up ☐ Overnight																			
														Shipment Complete ☒ YES ☐ NO											

Page 2 of 2

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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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1405 TECH05

Order Date : 2/21/2025 11:42:00 AM

Project Mgr :

Client Name : TechLaw Consultants, Inc

Project Name : REAC Commodore

Report Type : Level 2

Client Contact : Jonathan Dziekan

Receive DateTime : 2/21/2025 11:30:00 AM

EDD Type : Equis Region2(MEDD)

Invoice Name : TechLaw Consultants, Inc

Purchase Order :

Hard Copy Date :

Invoice Contact : Jonathan Dziekan

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1405-01	MW-01-021325	Water	02/13/2025	09:25	VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1405-02	MW-04-021325	Water	02/13/2025	10:55	VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1405-03	MW-20D-021325	Water	02/13/2025	13:29	VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1405-04	MW-20D-FD-021325	Water	02/13/2025	13:29	VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1405-05	MW-22-021925	Water	02/19/2025	16:50	VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1405-06	MW-23-021425	Water	02/14/2025	14:25	VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1405-07	MW-26-021825	Water	02/18/2025	15:00	VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1405-08	MW-11R-021325	Water	02/13/2025	14:43					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1405	TECH05	Order Date : 2/21/2025 11:42:00 AM	Project Mgr :
Client Name : TechLaw Consultants, Inc		Project Name : REAC Commodore	Report Type : Level 2
Client Contact : Jonathan Dziekan		Receive Date/Time : 2/21/2025 11:30:00 AM	EDD Type : Equis Region2(MEDD)
Invoice Name : TechLaw Consultants, Inc		Purchase Order :	Hard Copy Date :
Invoice Contact : Jonathan Dziekan			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1405-09	MW-13-021925	Water	02/19/2025	10:32	VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q1405-10	MW-30S-021825	Water	02/18/2025	16:05	VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q1405-11	TB-02-021325	Water	02/13/2025	08:00	VOC-TCLVOA-10		8260-Low	10 Bus. Days	
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time :

[Signature]
2-21-25 1215

Received By :

Date / Time :

[Signature]
2-21-25 12:30 PM

Storage Area : VOA Refridgerator Room

*stored in vault
ref # 04*