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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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LAB CHRONICLE

OrderID:	P4646	**OrderDate:**	10/31/2024 10:57:00 AM
Client:	Garden State Laboratories, Inc.	**Project:**	Waste Water 2024
Contact:	Sharon Ercoliani	**Location:**	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4646-01	**241030069-01-VOA**	**Water**			**10/30/24**			**10/31/24**
			VOCMS Group1	624.1			10/31/24	
			VOCMS Group2	8260-Low			10/31/24	
P4646-02	**241030043-05-TRIP-BLANK**	**Water**			**10/30/24**			**10/31/24**
			VOCMS Group1	624.1			10/31/24	
			VOCMS Group2	8260-Low			10/31/24	

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Hit Summary Sheet
SW-846

SDG No.: P4646

Client: Garden State Laboratories, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**241030069-01-VOA**								
P4646-01	241030069-01-VOA	Water	Vinyl Chloride		0.42	J	0.34	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Acetone		340		1.40	5.00	ug/L
P4646-01	241030069-01-VOA	Water	Carbon Disulfide		0.57	J	0.32	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Methyl tert-butyl Ether		3.40		0.16	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Methyl Acetate		1.10		0.60	1.00	ug/L
P4646-01	241030069-01-VOA	Water	2-Butanone		290		1.30	5.00	ug/L
P4646-01	241030069-01-VOA	Water	Benzene		4.80		0.16	1.00	ug/L
P4646-01	241030069-01-VOA	Water	4-Methyl-2-Pentanone		4.20	J	0.75	5.00	ug/L
P4646-01	241030069-01-VOA	Water	Toluene		3.00		0.18	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Chlorobenzene		1.40		0.13	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Ethyl Benzene		7.00		0.16	1.00	ug/L
P4646-01	241030069-01-VOA	Water	m/p-Xylenes		9.70		0.31	2.00	ug/L
P4646-01	241030069-01-VOA	Water	o-Xylene		6.20		0.14	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Styrene		0.58	J	0.16	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Isopropylbenzene		1.10		0.13	1.00	ug/L
P4646-01	241030069-01-VOA	Water	1,4-Dichlorobenzene		4.40		0.27	1.00	ug/L
P4646-01	241030069-01-VOA	Water	1,2-Dichlorobenzene		0.43	J	0.19	1.00	ug/L
			Total Voc :		678				
P4646-01	241030069-01-VOA	Water	unknown13.475	*	23.6	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	unknown13.932	*	10.0	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	unknown14.097	*	21.4	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	2-Propanol, 2-methyl-	*	460	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	Dimethyl ether	*	25.8	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	(+)-2-Bornanone	*	130	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	Cyclohexanol, 5-methyl-2-(1-m	*	30.8	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	L-Fenchone	*	94.4	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	Tetrahydrofuran	*	610	J	1.20	5.00	ug/L
P4646-01	241030069-01-VOA	Water	Diethyl Ether	*	2.90	J	0.20	1.00	ug/L
P4646-01	241030069-01-VOA	Water	n-propylbenzene	*	0.55	J	0.14	1.00	ug/L
P4646-01	241030069-01-VOA	Water	2-Chlorotoluene	*	0.58	J	0.16	1.00	ug/L
P4646-01	241030069-01-VOA	Water	1,3,5-Trimethylbenzene	*	0.93	J	0.18	1.00	ug/L
P4646-01	241030069-01-VOA	Water	1,2,4-Trimethylbenzene	*	3.80	J	0.18	1.00	ug/L
P4646-01	241030069-01-VOA	Water	p-Isopropyltoluene	*	1.30	J	0.15	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Naphthalene	*	39.2	J	0.59	1.00	ug/L
P4646-01	241030069-01-VOA	Water	1,4-Dioxane	*	130	J	6.50	100	ug/L

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Hit Summary Sheet
SW-846

SDG No.: P4646

Client: Garden State Laboratories, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Tics :	1590				
			Total Concentration:	2260				

QC SUMMARY

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Surrogate Summary

SDG No.: P4646

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4646-01	241030069-01-VOA	1,2-Dichloroethane-d4	50	45.9	92	74	125
		Dibromofluoromethane	50	45.6	91	75	124
		Toluene-d8	50	50.7	101	86	113
		4-Bromofluorobenzene	50	49.9	100	77	121
P4646-02	241030043-05-TRIP-BLANK	1,2-Dichloroethane-d4	50	42.2	84	74	125
		Dibromofluoromethane	50	45.6	91	75	124
		Toluene-d8	50	49.2	98	86	113
		4-Bromofluorobenzene	50	47.3	95	77	121
VX1031WBL01	VX1031WBL01	1,2-Dichloroethane-d4	50	40.0	80	74	125
		Dibromofluoromethane	50	45.3	91	75	124
		Toluene-d8	50	48.5	97	86	113
		4-Bromofluorobenzene	50	44.2	88	77	121
VX1031WBS01	VX1031WBS01	1,2-Dichloroethane-d4	50	40.2	80	74	125
		Dibromofluoromethane	50	47.1	94	75	124
		Toluene-d8	50	49.3	99	86	113
		4-Bromofluorobenzene	50	47.8	96	77	121
VX1031WBSD0	VX1031WBSD01	1,2-Dichloroethane-d4	50	40.8	82	74	125
		Dibromofluoromethane	50	48.1	96	75	124
		Toluene-d8	50	49.8	100	86	113
		4-Bromofluorobenzene	50	48.7	97	77	121

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4646

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low **Datafile :** VX043640.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1031WBS01	Dichlorodifluoromethane	20	17.1	ug/L	86			69	116	
	Chloromethane	20	15.8	ug/L	79			65	116	
	Vinyl chloride	20	17.1	ug/L	86			65	117	
	Bromomethane	20	17.1	ug/L	86			58	125	
	Chloroethane	20	17.5	ug/L	88			56	128	
	Trichlorofluoromethane	20	19.7	ug/L	99			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100			80	112	
	1,1-Dichloroethene	20	18.7	ug/L	94			74	110	
	Acetone	100	81.9	ug/L	82			60	125	
	Carbon disulfide	20	15.6	ug/L	78			64	112	
	Methyl tert-butyl Ether	20	17.2	ug/L	86			78	114	
	Methyl Acetate	20	16.7	ug/L	84			67	125	
	Methylene Chloride	20	17.0	ug/L	85			72	114	
	trans-1,2-Dichloroethene	20	18.7	ug/L	94			75	108	
	1,1-Dichloroethane	20	17.8	ug/L	89			78	112	
	Cyclohexane	20	18.7	ug/L	94			75	110	
	2-Butanone	100	83.4	ug/L	83			65	122	
	Carbon Tetrachloride	20	19.4	ug/L	97			77	113	
	cis-1,2-Dichloroethene	20	18.0	ug/L	90			77	110	
	Bromochloromethane	20	16.3	ug/L	81			70	124	
	Chloroform	20	18.0	ug/L	90			79	113	
	1,1,1-Trichloroethane	20	18.6	ug/L	93			80	108	
	Methylcyclohexane	20	20.5	ug/L	103			72	115	
	Benzene	20	19.3	ug/L	97			82	109	
	1,2-Dichloroethane	20	17.8	ug/L	89			80	115	
	Trichloroethene	20	20.2	ug/L	101			77	113	
	1,2-Dichloropropane	20	19.3	ug/L	97			83	111	
	Bromodichloromethane	20	18.1	ug/L	91			83	110	
	4-Methyl-2-Pentanone	100	91.1	ug/L	91			74	118	
	Toluene	20	20.3	ug/L	102			82	110	
	t-1,3-Dichloropropene	20	18.0	ug/L	90			79	110	
	cis-1,3-Dichloropropene	20	18.9	ug/L	95			82	110	
	1,1,2-Trichloroethane	20	19.5	ug/L	98			83	112	
	2-Hexanone	100	90.3	ug/L	90			73	117	
	Dibromochloromethane	20	18.4	ug/L	92			82	110	
	1,2-Dibromoethane	20	18.9	ug/L	95			81	110	
	Tetrachloroethene	20	21.6	ug/L	108			67	123	
	Chlorobenzene	20	19.8	ug/L	99			82	109	
	Ethyl Benzene	20	19.9	ug/L	100			83	109	
	m/p-Xylenes	40	41.5	ug/L	104			82	110	
	o-Xylene	20	20.8	ug/L	104			83	109	
	Styrene	20	20.7	ug/L	104			80	111	
	Bromoform	20	18.2	ug/L	91			79	109	
	Isopropylbenzene	20	20.7	ug/L	104			83	112	
	1,1,2,2-Tetrachloroethane	20	18.8	ug/L	94			76	118	
	1,3-Dichlorobenzene	20	20.5	ug/L	103			82	108	
	1,4-Dichlorobenzene	20	19.9	ug/L	100			82	107	
	1,2-Dichlorobenzene	20	20.4	ug/L	102			82	109	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4646

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low **Datafile :** VX043640.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1031WBS01	1,2-Dibromo-3-Chloropropane	20	16.7	ug/L	84			68	112	
	1,2,4-Trichlorobenzene	20	19.9	ug/L	100			75	113	
	1,2,3-Trichlorobenzene	20	19.9	ug/L	100			76	114	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4646

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low **Datafile :** VX043641.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1031WBSD01	Dichlorodifluoromethane	20	16.4	ug/L	82	5		69	116	20
	Chloromethane	20	15.2	ug/L	76	4		65	116	20
	Vinyl chloride	20	17.2	ug/L	86	0		65	117	20
	Bromomethane	20	17.6	ug/L	88	2		58	125	20
	Chloroethane	20	18.8	ug/L	94	7		56	128	20
	Trichlorofluoromethane	20	20.2	ug/L	101	2		73	115	20
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/L	101	1		80	112	20
	1,1-Dichloroethene	20	19.3	ug/L	97	3		74	110	20
	Acetone	100	86.1	ug/L	86	5		60	125	20
	Carbon disulfide	20	15.9	ug/L	79	1		64	112	20
	Methyl tert-butyl Ether	20	18.0	ug/L	90	5		78	114	20
	Methyl Acetate	20	17.6	ug/L	88	5		67	125	20
	Methylene Chloride	20	17.6	ug/L	88	3		72	114	20
	trans-1,2-Dichloroethene	20	18.4	ug/L	92	2		75	108	20
	1,1-Dichloroethane	20	18.3	ug/L	92	3		78	112	20
	Cyclohexane	20	19.2	ug/L	96	2		75	110	20
	2-Butanone	100	89.4	ug/L	89	7		65	122	20
	Carbon Tetrachloride	20	19.8	ug/L	99	2		77	113	20
	cis-1,2-Dichloroethene	20	18.6	ug/L	93	3		77	110	20
	Bromochloromethane	20	16.7	ug/L	84	4		70	124	20
	Chloroform	20	18.3	ug/L	92	2		79	113	20
	1,1,1-Trichloroethane	20	18.8	ug/L	94	1		80	108	20
	Methylcyclohexane	20	20.5	ug/L	103	0		72	115	20
	Benzene	20	19.4	ug/L	97	0		82	109	20
	1,2-Dichloroethane	20	18.4	ug/L	92	3		80	115	20
	Trichloroethene	20	20.1	ug/L	101	0		77	113	20
	1,2-Dichloropropane	20	18.7	ug/L	94	3		83	111	20
	Bromodichloromethane	20	19.0	ug/L	95	4		83	110	20
	4-Methyl-2-Pentanone	100	96.6	ug/L	97	6		74	118	20
	Toluene	20	20.8	ug/L	104	2		82	110	20
	t-1,3-Dichloropropene	20	18.6	ug/L	93	3		79	110	20
	cis-1,3-Dichloropropene	20	19.7	ug/L	99	4		82	110	20
	1,1,2-Trichloroethane	20	20.0	ug/L	100	2		83	112	20
	2-Hexanone	100	96.6	ug/L	97	7		73	117	20
	Dibromochloromethane	20	19.5	ug/L	98	6		82	110	20
	1,2-Dibromoethane	20	19.8	ug/L	99	4		81	110	20
	Tetrachloroethene	20	21.3	ug/L	106	2		67	123	20
	Chlorobenzene	20	19.9	ug/L	100	1		82	109	20
	Ethyl Benzene	20	20.3	ug/L	102	2		83	109	20
	m/p-Xylenes	40	41.3	ug/L	103	1		82	110	20
	o-Xylene	20	20.2	ug/L	101	3		83	109	20
	Styrene	20	20.6	ug/L	103	1		80	111	20
	Bromoform	20	18.8	ug/L	94	3		79	109	20
	Isopropylbenzene	20	20.5	ug/L	103	1		83	112	20
	1,1,2,2-Tetrachloroethane	20	19.9	ug/L	100	6		76	118	20
	1,3-Dichlorobenzene	20	20.3	ug/L	102	1		82	108	20
	1,4-Dichlorobenzene	20	20.2	ug/L	101	1		82	107	20
	1,2-Dichlorobenzene	20	20.5	ug/L	103	1		82	109	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4646

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low **Datafile :** VX043641.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1031WBSD01	1,2-Dibromo-3-Chloropropane	20	17.1	ug/L	86	2		68	112	20
	1,2,4-Trichlorobenzene	20	20.2	ug/L	101	1		75	113	20
	1,2,3-Trichlorobenzene	20	19.9	ug/L	100	0		76	114	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1031WBL01

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4646 SAS No.: P4646 SDG NO.: P4646

Lab File ID: VX043639.D Lab Sample ID: VX1031WBL01

Date Analyzed: 10/31/2024 Time Analyzed: 10:13

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

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1031WBS01	VX1031WBS01	VX043640.D	10/31/2024
VX1031WBSD01	VX1031WBSD01	VX043641.D	10/31/2024
241030043-05-TRIP-BLANK	P4646-02	VX043648.D	10/31/2024
241030069-01-VOA	P4646-01	VX043649.D	10/31/2024

COMMENTS:

Raw Data: **VX043555.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4646 SAS No.: P4646 SDG NO.: P4646

Lab File ID: VX043555.D BFB Injection Date: 10/28/2024

Instrument ID: MSVOA_X BFB Injection Time: 10:09

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	50.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	71.2
175	5.0 - 9.0% of mass 174	5.6 (7.9) 1
176	95.0 - 101.0% of mass 174	68.9 (96.7) 1
177	5.0 - 9.0% of mass 176	4.1 (6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX043556.D	10/28/2024	10:59
VSTDICC005	VSTDICC005	VX043557.D	10/28/2024	11:22
VSTDICC020	VSTDICC020	VX043558.D	10/28/2024	11:45
VSTDICCC050	VSTDICCC050	VX043559.D	10/28/2024	12:08
VSTDICC100	VSTDICC100	VX043560.D	10/28/2024	12:31
VSTDICC150	VSTDICC150	VX043561.D	10/28/2024	12:54

Raw Data: **VX043636.D**

Alliance TECHNICAL GROUP
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4646 SAS No.: P4646 SDG NO.: P4646

Lab File ID: VX043636.D BFB Injection Date: 10/31/2024

Instrument ID: MSVOA_X BFB Injection Time: 08:27

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.1
75	30.0 - 60.0% of mass 95	49.1
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	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	75.7
175	5.0 - 9.0% of mass 174	5.7 (7.5) 1
176	95.0 - 101.0% of mass 174	73.6 (97.2) 1
177	5.0 - 9.0% of mass 176	5.1 (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
VSTDCCC050	VSTDCCC050	VX043637.D	10/31/2024	09:26
VX1031WBL01	VX1031WBL01	VX043639.D	10/31/2024	10:13
VX1031WBS01	VX1031WBS01	VX043640.D	10/31/2024	10:50
VX1031WBSD01	VX1031WBSD01	VX043641.D	10/31/2024	11:13
241030043-05-TRIP-BLANK	P4646-02	VX043648.D	10/31/2024	14:03
241030069-01-VOA	P4646-01	VX043649.D	10/31/2024	14:27

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4646 SAS No.: P4646 SDG NO.: P4646

Lab File ID: VX043637.D Date Analyzed: 10/31/2024

Instrument ID: MSVOA_X Time Analyzed: 09:26

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	125344	5.54	226770	6.76	205964	10.06
UPPER LIMIT	250688	6.044	453540	7.257	411928	10.555
LOWER LIMIT	62672	5.044	113385	6.257	102982	9.555
EPA SAMPLE NO.						
241030069-01-VOA	97314	5.54	180518	6.76	165303	10.06
241030043-05-TRIP-BLANK	100945	5.55	187057	6.76	165157	10.06
VX1031WBL01	145633	5.55	263897	6.76	221541	10.06
VX1031WBS01	192204	5.54	329446	6.76	282193	10.05
VX1031WBSD01	182029	5.54	311670	6.76	268830	10.06

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4646 SAS No.: P4646 SDG NO.: P4646

Lab File ID: VX043637.D Date Analyzed: 10/31/2024

Instrument ID: MSVOA_X Time Analyzed: 09:26

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

	IS4 AREA #	RT #				
12 HOUR STD	102825	12.018				
UPPER LIMIT	205650	12.518				
LOWER LIMIT	51412.5	11.518				
EPA SAMPLE NO.						
241030069-01-VOA	73845	12.02				
241030043-05-TRIP-BLANK	72782	12.02				
VX1031WBL01	95694	12.02				
VX1031WBS01	135150	12.02				
VX1031WBSD01	129133	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

Raw Data: **VX043649.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030069-01-VOA	SDG No.:	P4646
Lab Sample ID:	P4646-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043649.D	1		10/31/24 14:27	VX103124

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	0.42	J	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	340		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.57	J	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	3.40		0.16	1.00	ug/L
79-20-9	Methyl Acetate	1.10		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	290		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	4.80		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	4.20	J	0.75	5.00	ug/L
108-88-3	Toluene	3.00		0.18	1.00	ug/L

Raw Data: **VX043649.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030069-01-VOA	SDG No.:	P4646
Lab Sample ID:	P4646-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043649.D	1		10/31/24 14:27	VX103124

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	1.40		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	7.00		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	9.70		0.31	2.00	ug/L
95-47-6	o-Xylene	6.20		0.14	1.00	ug/L
100-42-5	Styrene	0.58	J	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	1.10		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	4.40		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.43	J	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	45.9		74 - 125	92%	SPK: 50
1868-53-7	Dibromofluoromethane	45.6		75 - 124	91%	SPK: 50
2037-26-5	Toluene-d8	50.7		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	97300	5.544			
540-36-3	1,4-Difluorobenzene	181000	6.757			
3114-55-4	Chlorobenzene-d5	165000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	73800	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VX043649.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030069-01-VOA	SDG No.:	P4646
Lab Sample ID:	P4646-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043649.D	1		10/31/24 14:27	VX103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000115-10-6	Dimethyl ether	25.8	J		1.25	ug/L
60-29-7	Diethyl Ether	2.90	J		2.14	ug/L
000075-65-0	2-Propanol, 2-methyl-	460	J		3.00	ug/L
109-99-9	Tetrahydrofuran	610	J		5.01	ug/L
123-91-1	1,4-Dioxane	130	J		7.68	ug/L
103-65-1	n-propylbenzene	0.55	J		11.3	ug/L
95-49-8	2-Chlorotoluene	0.58	J		11.4	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.93	J		11.5	ug/L
95-63-6	1,2,4-Trimethylbenzene	3.80	J		11.8	ug/L
99-87-6	p-Isopropyltoluene	1.30	J		12.0	ug/L
007787-20-4	L-Fenchone	94.4	J		12.9	ug/L
	unknown13.475	23.6	J		13.5	ug/L
000464-49-3	(+)-2-Bornanone	130	J		13.5	ug/L
002216-52-6	Cyclohexanol, 5-methyl-2-(1-methyl	30.8	J		13.6	ug/L
91-20-3	Naphthalene	39.2	J		13.8	ug/L
	unknown13.932	10.0	J		13.9	ug/L
	unknown14.097	21.4	J		14.1	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_X\Data\VX103124\
Data File : VX043649.D
Acq On : 31 Oct 2024 14:27
Operator : JC/MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Quant Time: Nov 01 00:53:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	97314	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	180518	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	165303	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	73845	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	71153	45.855	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 91.720%			
35) Dibromofluoromethane	5.379	113	55808	45.592	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.180%			
50) Toluene-d8	8.647	98	214982	50.735	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.480%			
62) 4-Bromofluorobenzene	11.079	95	78370	49.912	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.820%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.374	62	522	0.423	ug/l #	73
8) Diethyl Ether	2.136	74	2016	2.893	ug/l	75
16) Acetone	2.386	43	212295	344.531	ug/l	98
17) Carbon Disulfide	2.502	76	1236	0.567	ug/l #	93
18) Methyl Acetate	2.703	43	2003	1.112	ug/l	91
19) Methyl tert-butyl Ether	3.111	73	13427	3.387	ug/l #	85
25) 2-Butanone	4.562	43	260972	290.344	ug/l	95
29) Tetrahydrofuran	5.007	42	358434	613.627	ug/l	98
40) Benzene	6.038	78	23072	4.765	ug/l	95
49) 1,4-Dioxane	7.677	88	3578	126.047	ug/l #	82
51) 4-Methyl-2-Pentanone	8.574	43	7496	4.220	ug/l	89
52) Toluene	8.720	92	8879	3.024	ug/l	99
65) Chlorobenzene	10.079	112	5115	1.438	ug/l #	81
67) Ethyl Benzene	10.189	91	40500	6.984	ug/l	97
68) m/p-Xylenes	10.299	106	21543	9.714	ug/l	97
69) o-Xylene	10.640	106	13826	6.205	ug/l	97
70) Styrene	10.659	104	2150	0.581	ug/l #	1
73) Isopropylbenzene	10.963	105	5501	1.052	ug/l	89
78) n-propylbenzene	11.305	91	3132	0.549	ug/l	93
79) 2-Chlorotoluene	11.366	91	2188	0.579	ug/l	82
80) 1,3,5-Trimethylbenzene	11.451	105	4045	0.927	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	16916	3.806	ug/l	89
86) p-Isopropyltoluene	12.012	119	5686	1.287	ug/l	89
88) 1,4-Dichlorobenzene	12.043	146	10973	4.374	ug/l	91
91) 1,2-Dichlorobenzene	12.335	146	1071	0.433	ug/l	86
95) Naphthalene	13.774	128	225475	39.212	ug/l	99

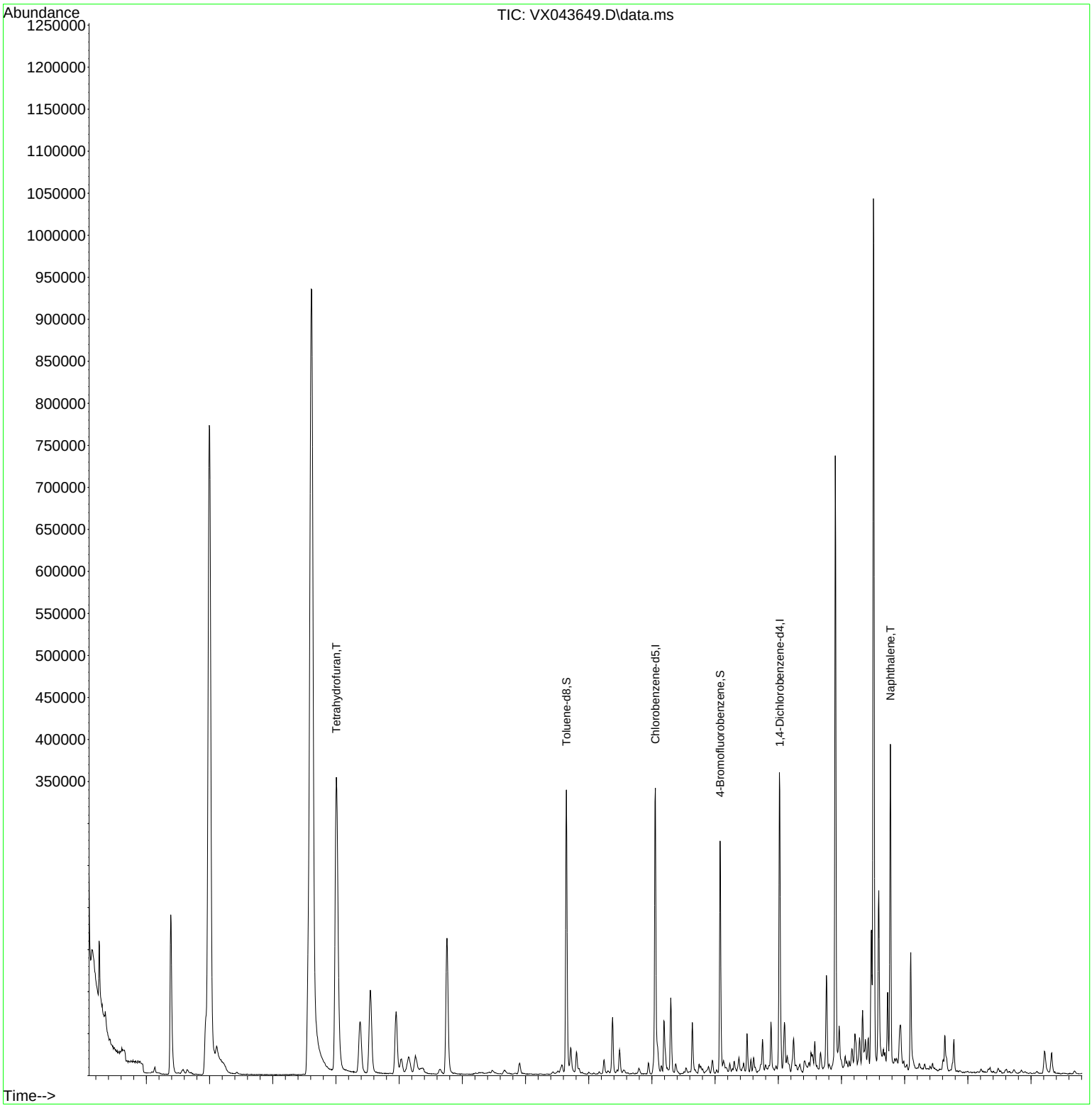
(#) = qualifier out of range (m) = manual integration (+) = signals summed

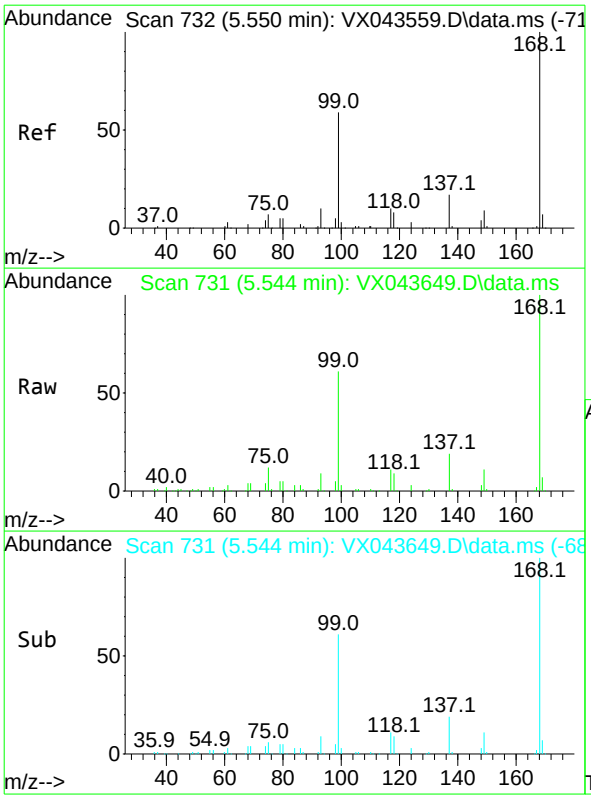
Sample Results: **VX043649.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043649.D
Acq On : 31 Oct 2024 14:27
Operator : JC/MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Quant Time: Nov 01 00:53:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration



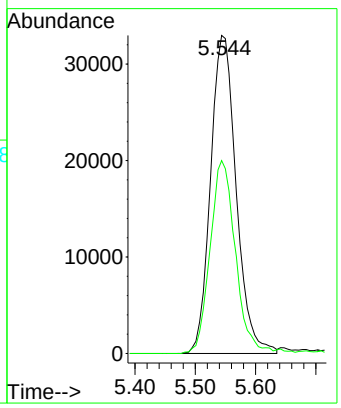


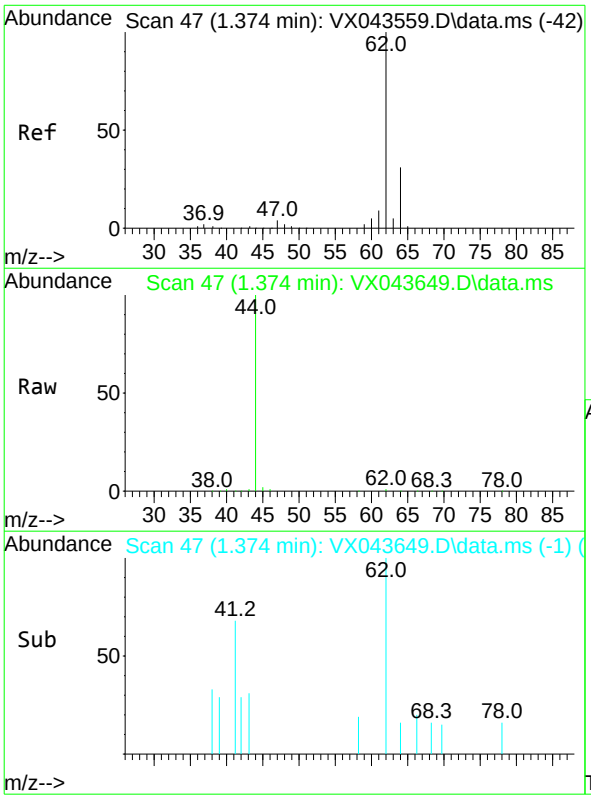
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion:168 Resp: 97314

Ion	Ratio	Lower	Upper
168	100		
99	60.6	52.6	78.8

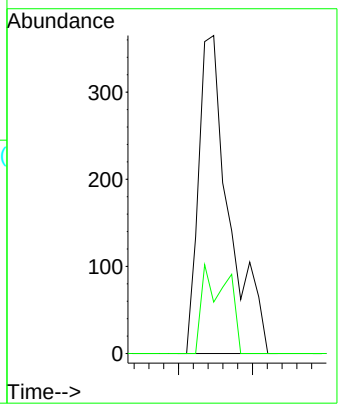


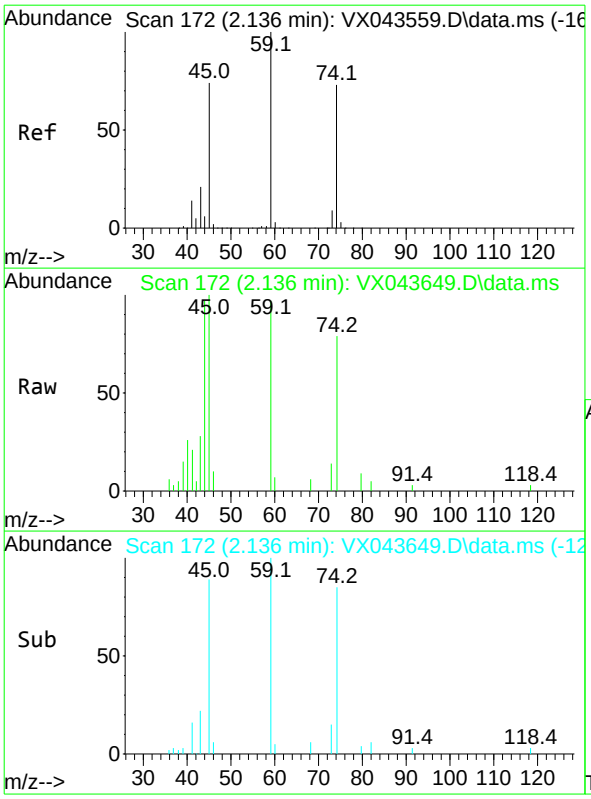


#4
Vinyl Chloride
Concen: 0.423 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion: 62 Resp: 522

Ion	Ratio	Lower	Upper
62	100		
64	16.2	25.0	37.4#



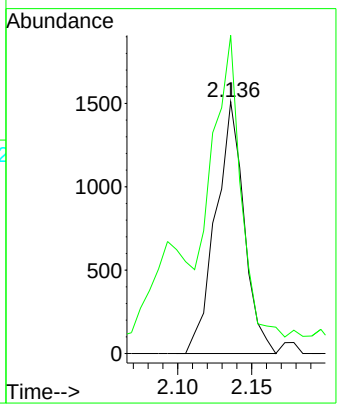


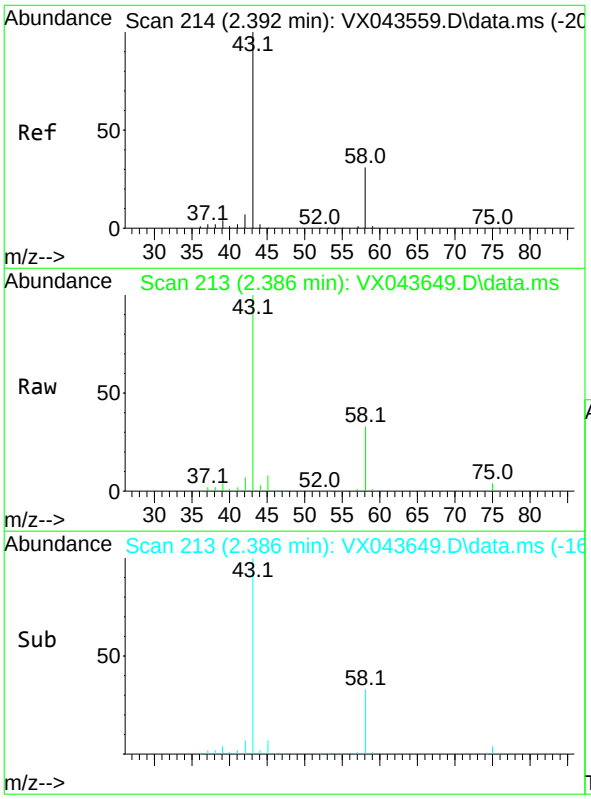
#8
Diethyl Ether
Concen: 2.893 ug/l
RT: 2.136 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion: 74 Resp: 2016

Ion	Ratio	Lower	Upper
74	100		
45	119.2	47.5	142.5

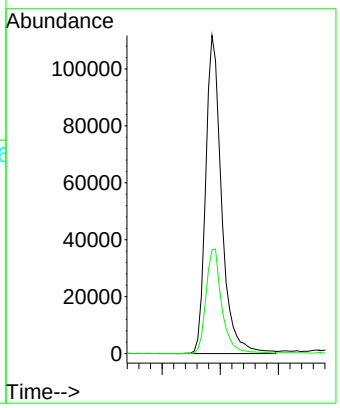


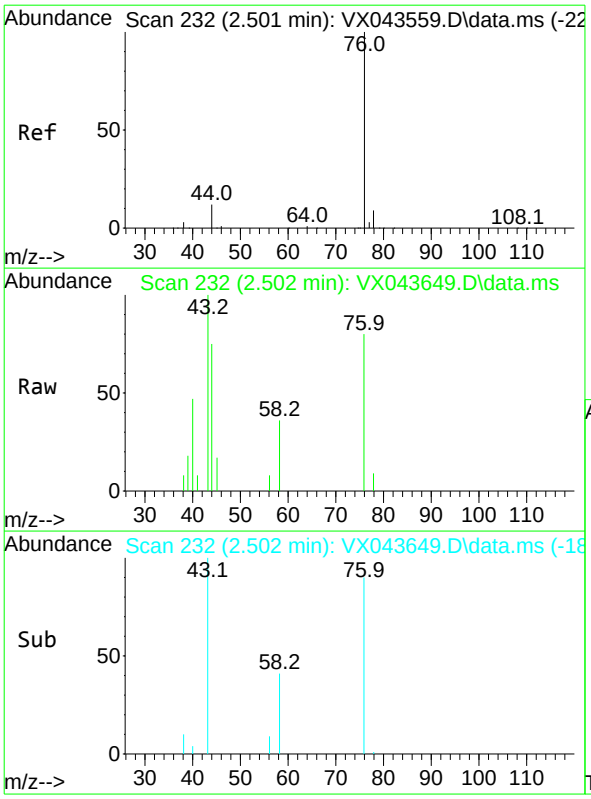


#16
Acetone
Concen: 344.531 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.012 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion: 43 Resp: 212295

Ion	Ratio	Lower	Upper
43	100		
58	32.6	25.1	37.7



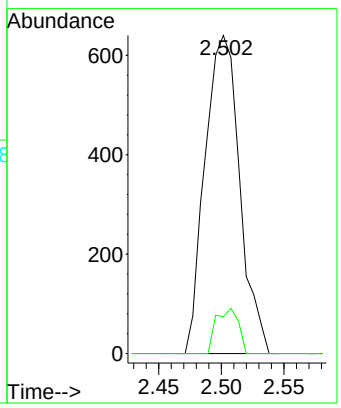


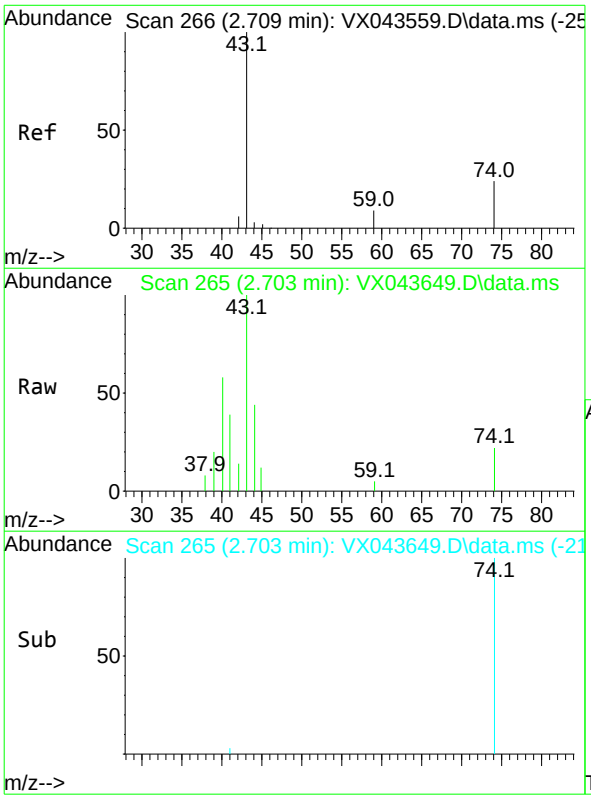
#17
Carbon Disulfide
Concen: 0.567 ug/l
RT: 2.502 min Scan# 23
Delta R.T. 0.006 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion: 76 Resp: 1236

Ion	Ratio	Lower	Upper
76	100		
78	11.6	7.1	10.7#

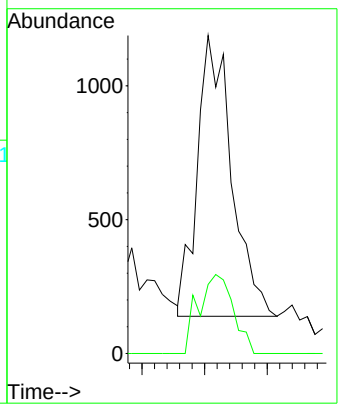


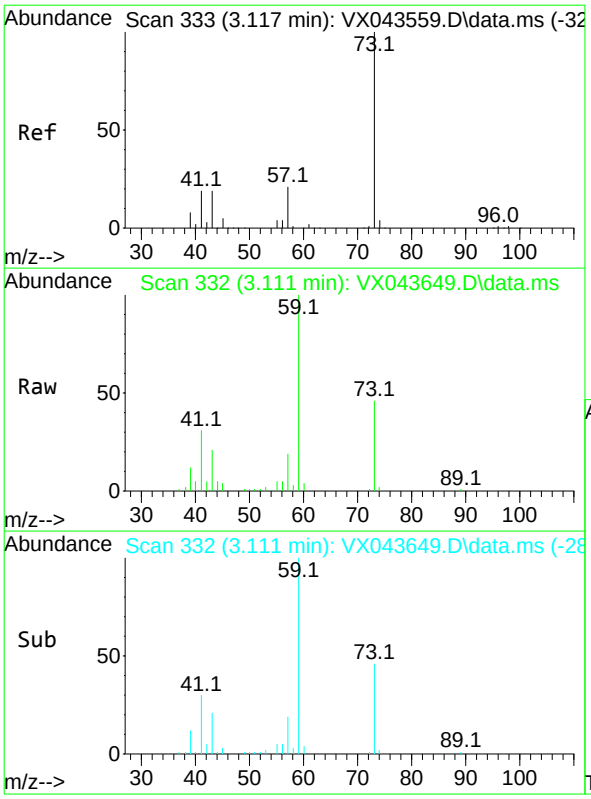


#18
Methyl Acetate
Concen: 1.112 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion: 43 Resp: 2003

Ion	Ratio	Lower	Upper
43	100		
74	28.4	19.1	28.7



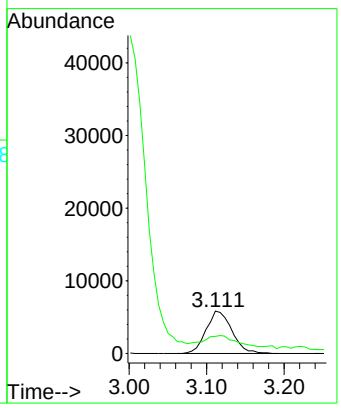


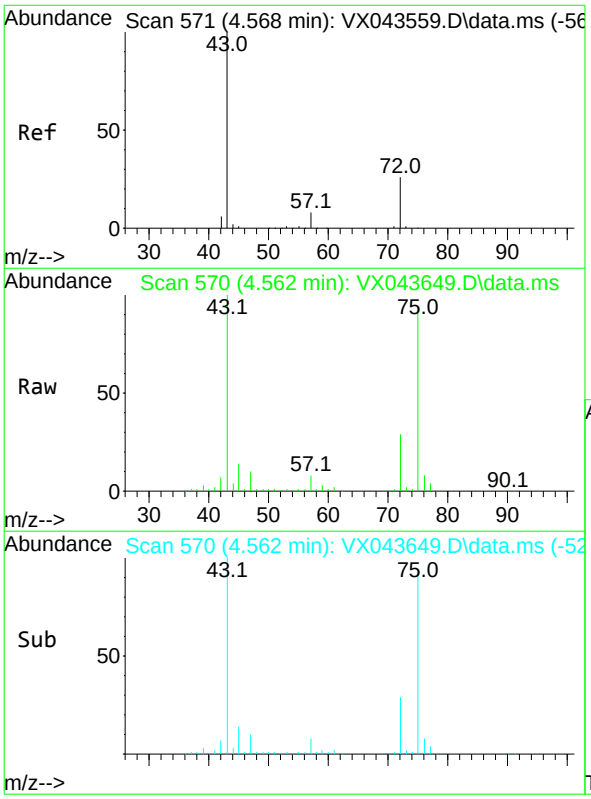
#19
Methyl tert-butyl Ether
Concen: 3.387 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.012 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion: 73 Resp: 13427

Ion	Ratio	Lower	Upper
73	100		
57	29.3	17.7	26.5#

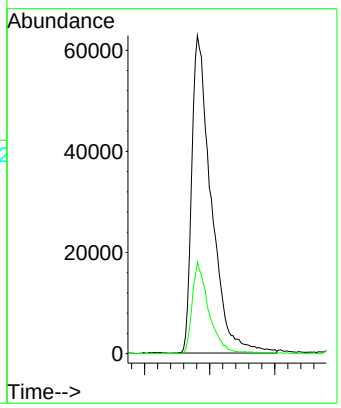


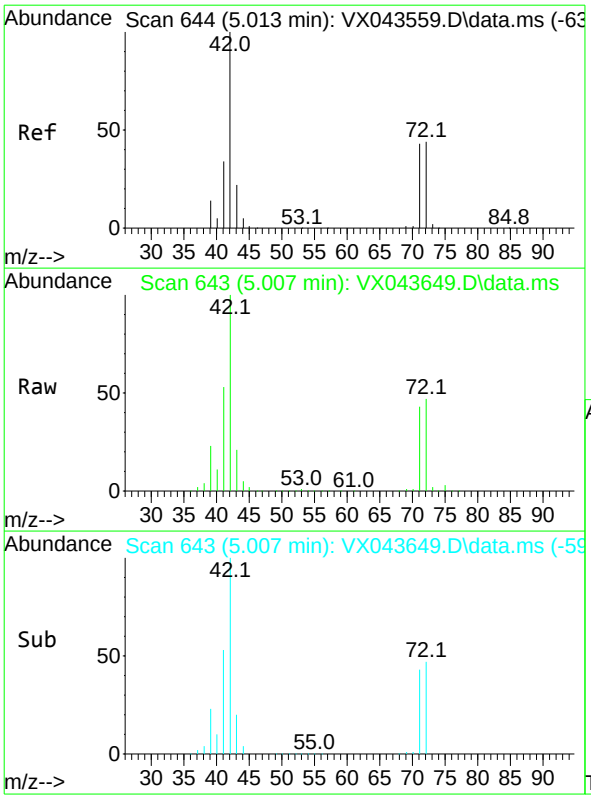


#25
2-Butanone
Concen: 290.344 ug/l
RT: 4.562 min Scan# 570
Delta R.T. -0.006 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion: 43 Resp: 260972

Ion	Ratio	Lower	Upper
43	100		
72	28.8	21.1	31.7



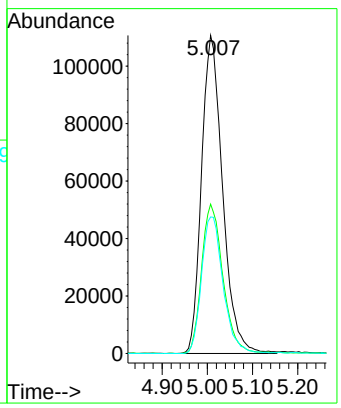


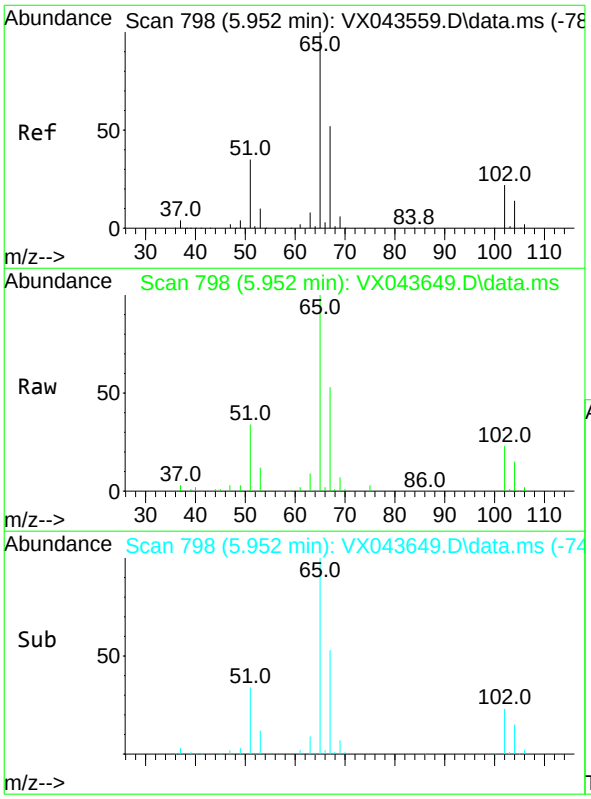
#29
Tetrahydrofuran
Concen: 613.627 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion: 42 Resp: 358434

Ion	Ratio	Lower	Upper
42	100		
72	47.5	36.6	55.0
71	44.0	34.2	51.4

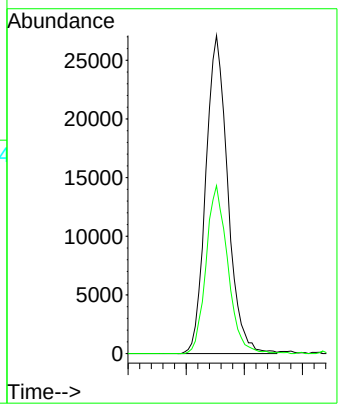


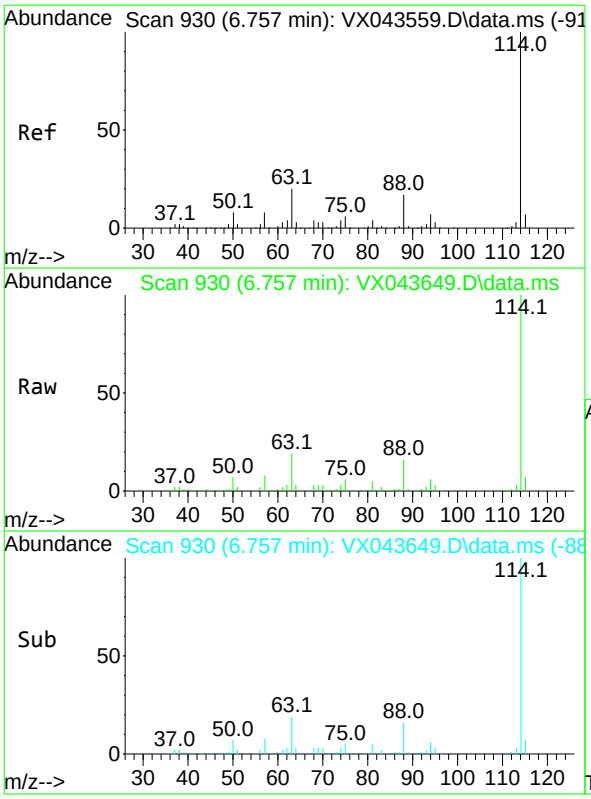


#33
1,2-Dichloroethane-d4
Concen: 45.855 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion: 65 Resp: 71153

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	103.4



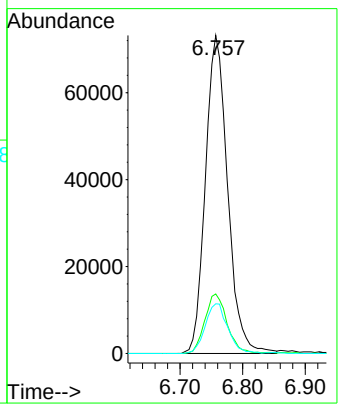


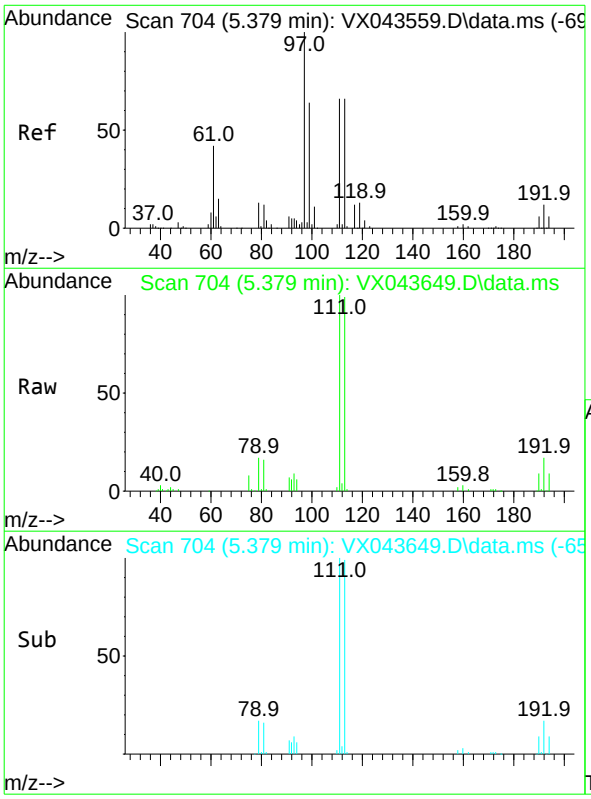
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion:114 Resp: 180518

Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	41.2
88	15.6	0.0	34.0

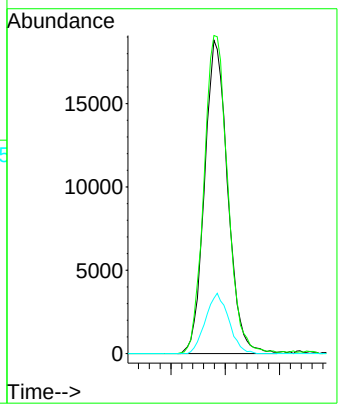


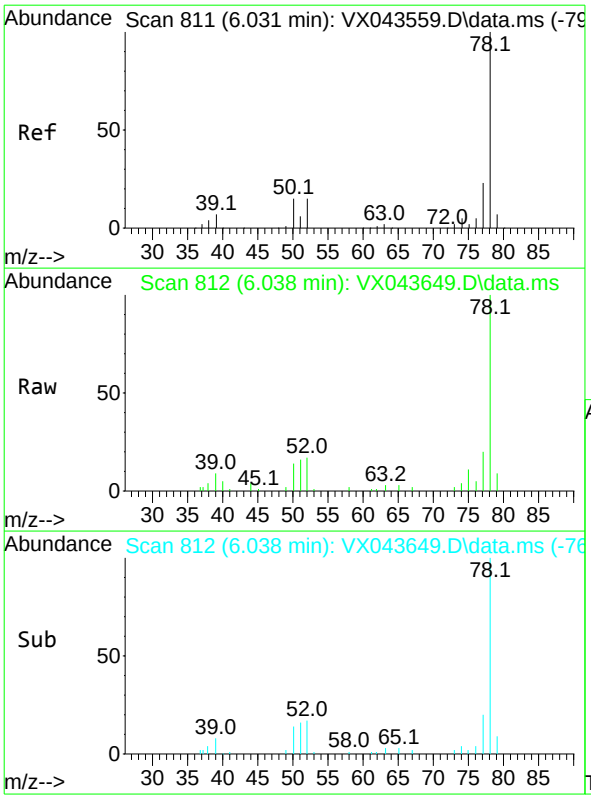


#35
Dibromofluoromethane
Concen: 45.592 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion:113 Resp: 55808

Ion	Ratio	Lower	Upper
113	100		
111	104.2	81.4	122.0
192	19.3	14.1	21.1



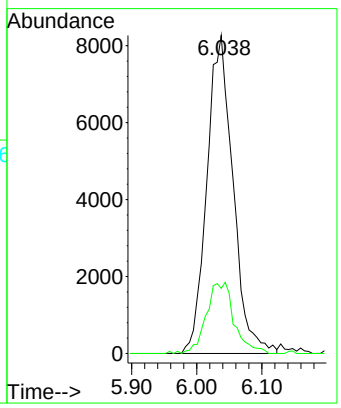


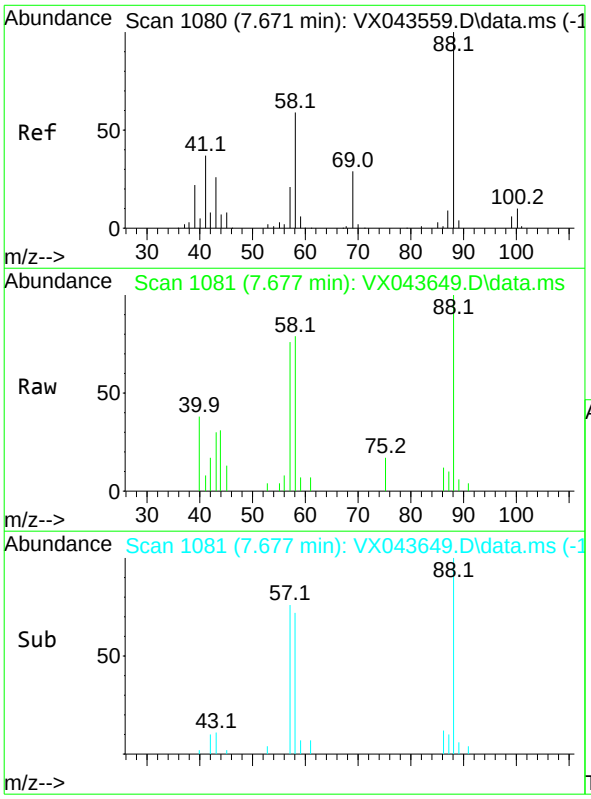
#40
Benzene
Concen: 4.765 ug/l
RT: 6.038 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion: 78 Resp: 23072

Ion	Ratio	Lower	Upper
78	100		
77	20.5	18.4	27.6

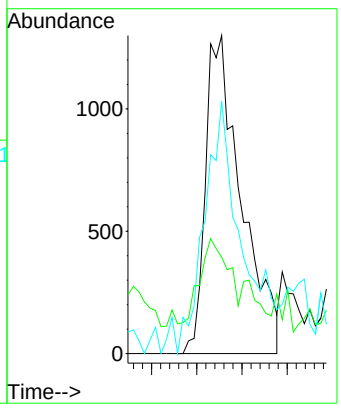


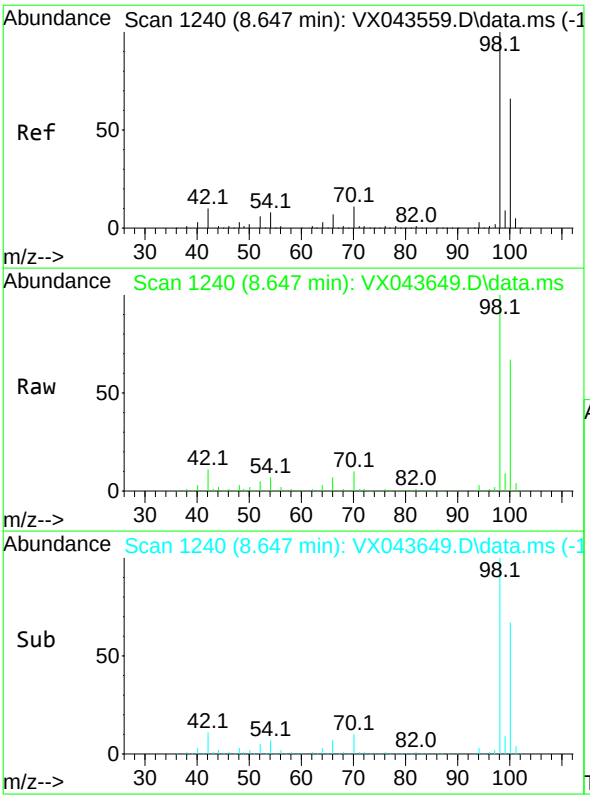


#49
1,4-Dioxane
Concen: 126.047 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. 0.006 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion: 88 Resp: 3578

Ion	Ratio	Lower	Upper
88	100		
43	21.2	25.3	37.9#
58	81.7	53.9	80.9#



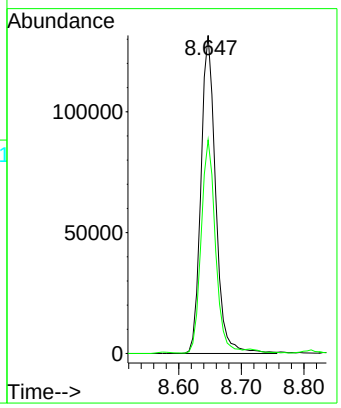


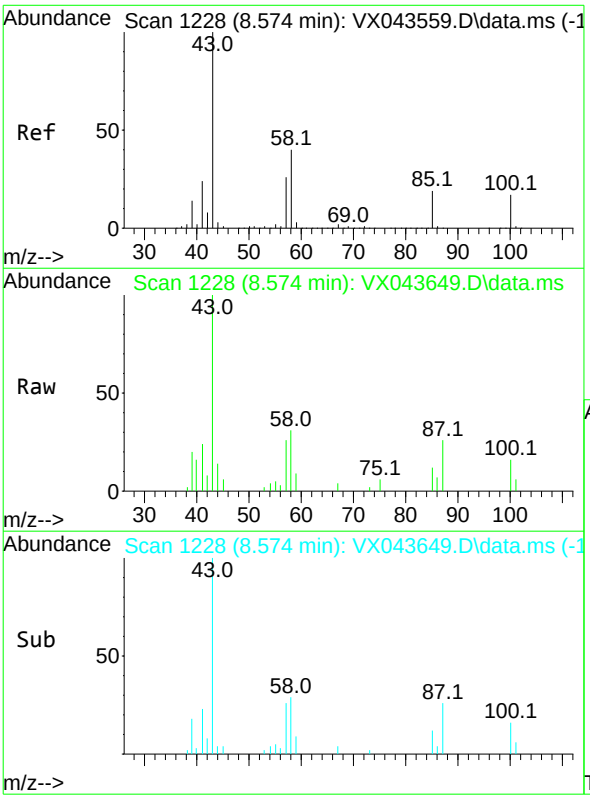
#50
Toluene-d8
Concen: 50.735 ug/l
RT: 8.647 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion: 98 Resp: 214982

Ion	Ratio	Lower	Upper
98	100		
100	65.1	53.4	80.2

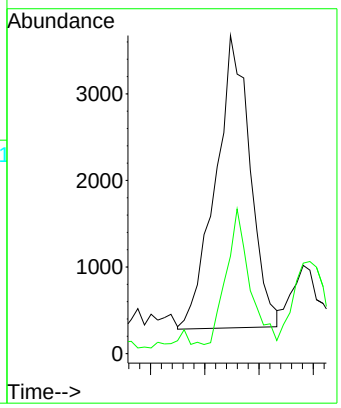


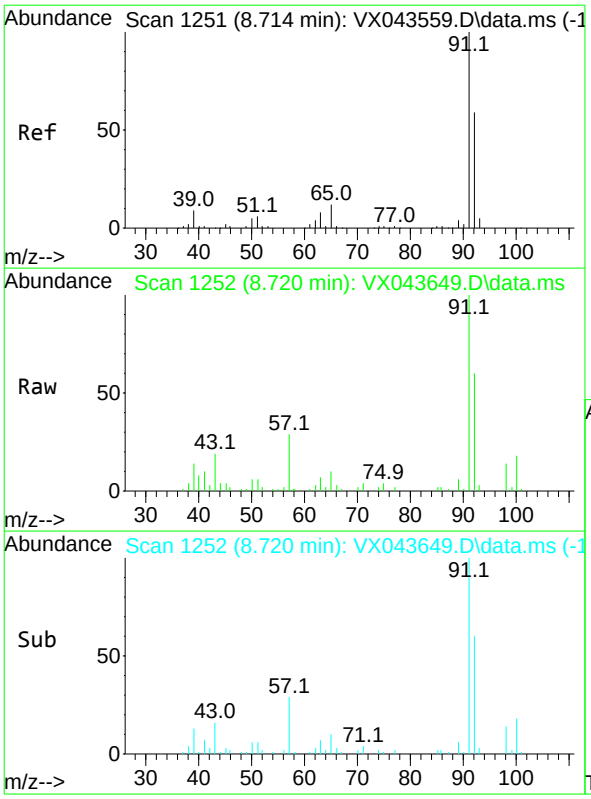


#51
4-Methyl-2-Pentanone
Concen: 4.220 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.006 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion: 43 Resp: 7496

Ion	Ratio	Lower	Upper
43	100		
58	32.7	31.7	47.5



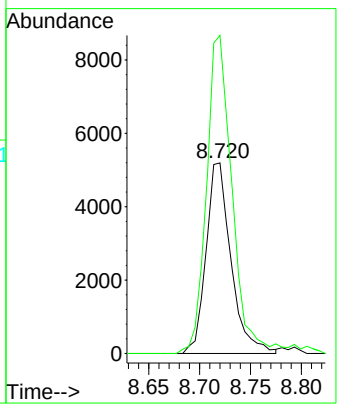


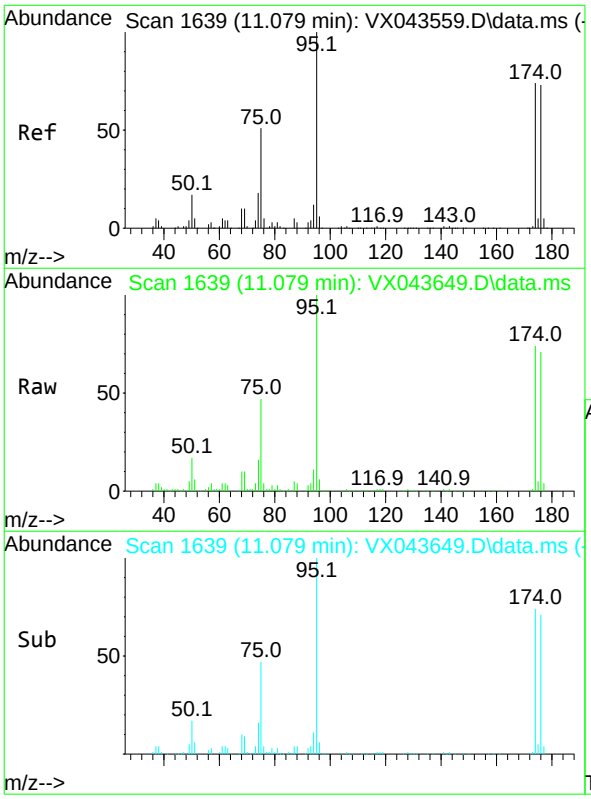
#52
Toluene
Concen: 3.024 ug/l
RT: 8.720 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion: 92 Resp: 8879

Ion	Ratio	Lower	Upper
92	100		
91	171.0	135.7	203.5

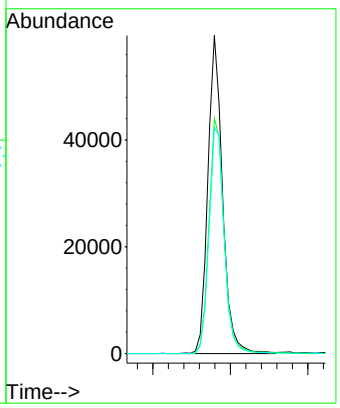


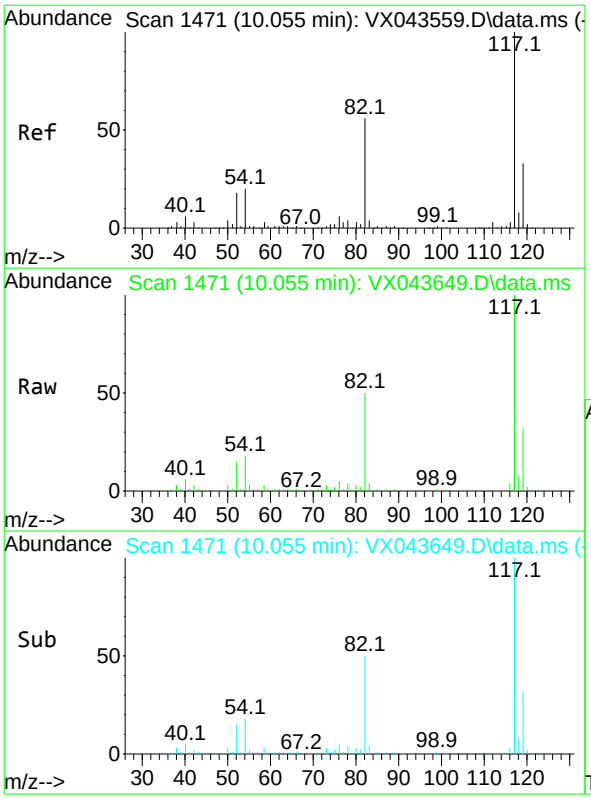


#62
4-Bromofluorobenzene
Concen: 49.912 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion: 95 Resp: 78370

Ion	Ratio	Lower	Upper
95	100		
174	76.3	0.0	146.6
176	73.3	0.0	139.6



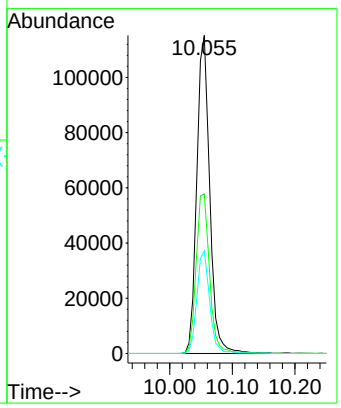


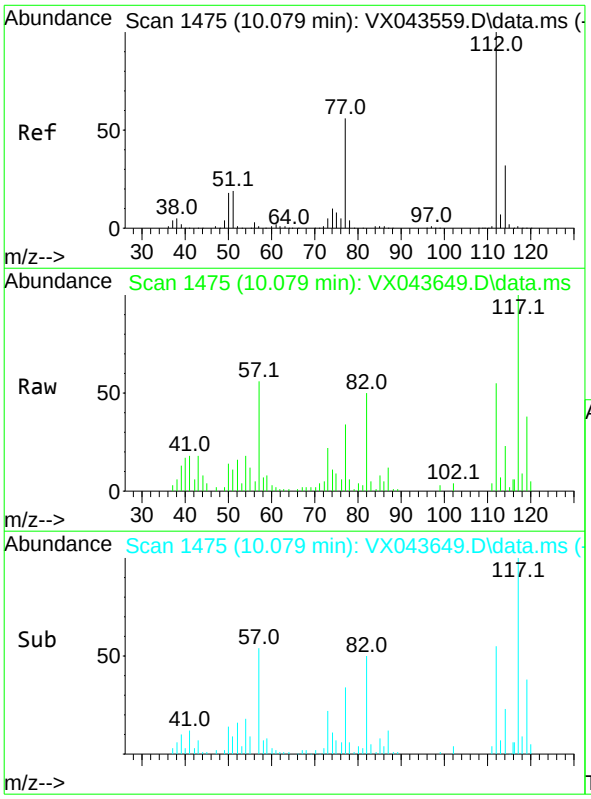
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion:117 Resp: 165303

Ion	Ratio	Lower	Upper
117	100		
82	50.1	42.1	63.1
119	32.3	25.4	38.2

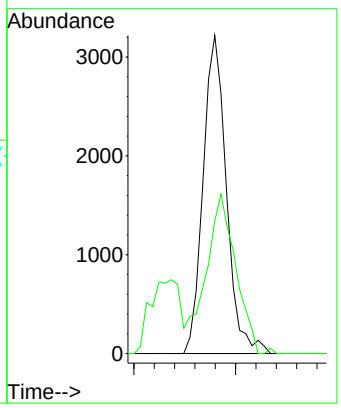


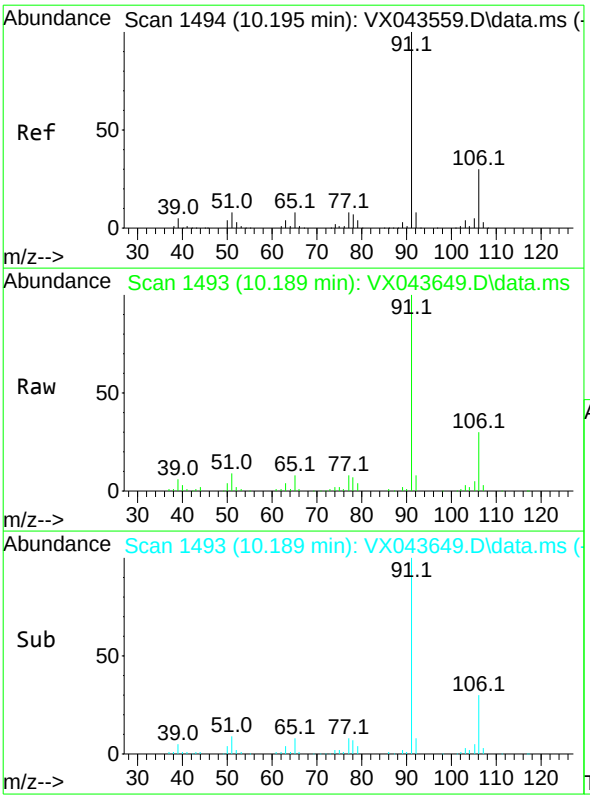


#65
Chlorobenzene
Concen: 1.438 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion:112 Resp: 5115

Ion	Ratio	Lower	Upper
112	100		
114	41.7	25.0	37.6#



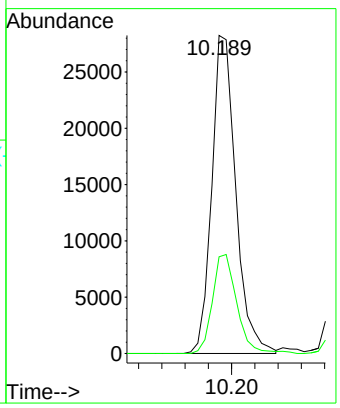


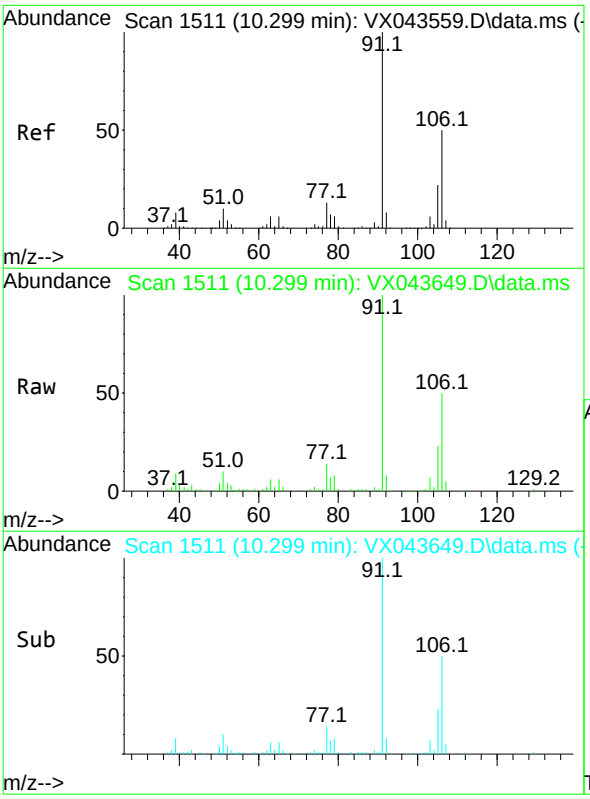
#67
Ethyl Benzene
Concen: 6.984 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion: 91 Resp: 40500

Ion	Ratio	Lower	Upper
91	100		
106	30.4	25.4	38.2

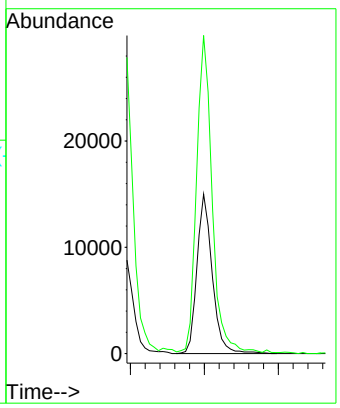


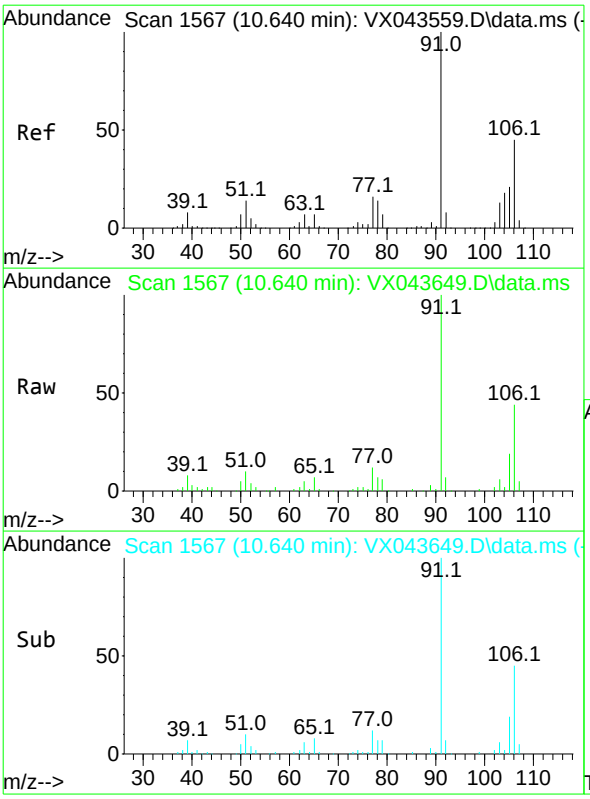


#68
m/p-Xylenes
Concen: 9.714 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion:106 Resp: 21543

Ion	Ratio	Lower	Upper
106	100		
91	201.3	164.7	247.1



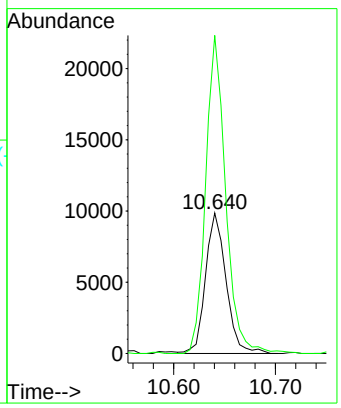


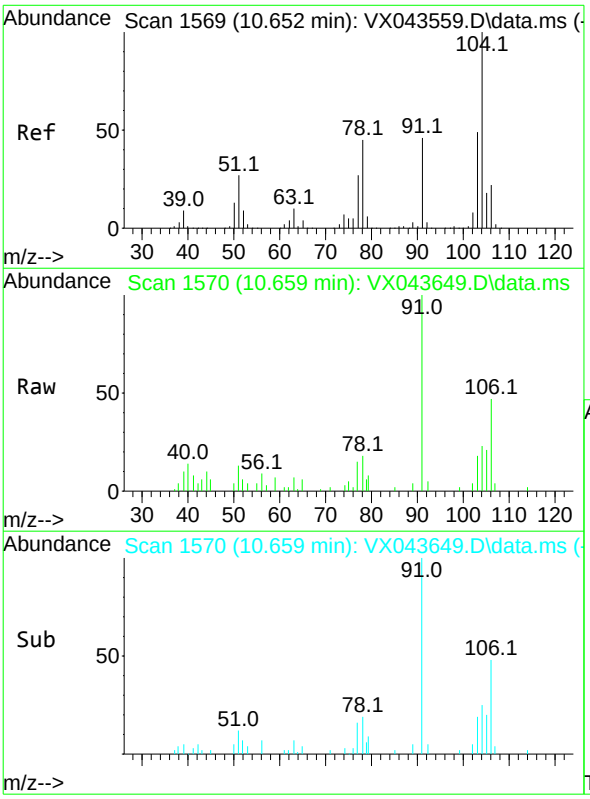
#69
o-Xylene
Concen: 6.205 ug/l
RT: 10.640 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion:106 Resp: 13826

Ion	Ratio	Lower	Upper
106	100		
91	220.4	107.9	323.7

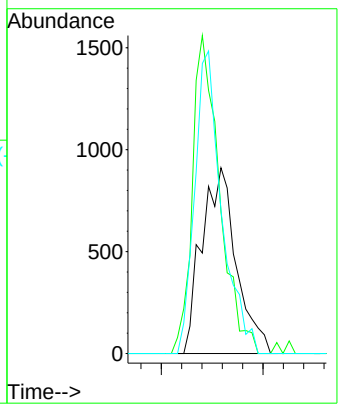


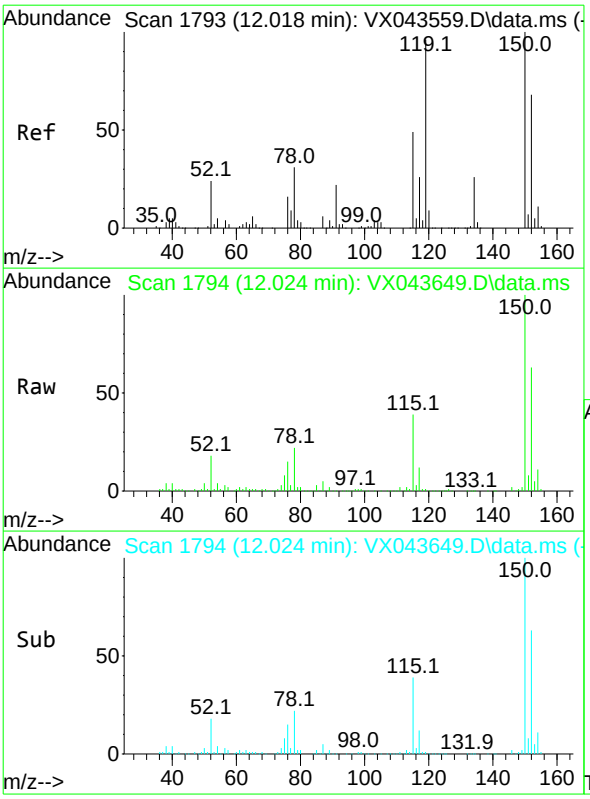


#70
Styrene
Concen: 0.581 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion:104 Resp: 2150

Ion	Ratio	Lower	Upper
104	100		
78	134.5	40.0	60.0#
103	127.3	43.4	65.0#



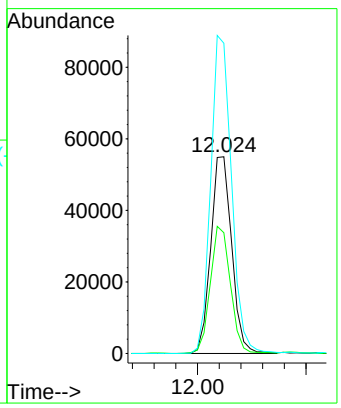


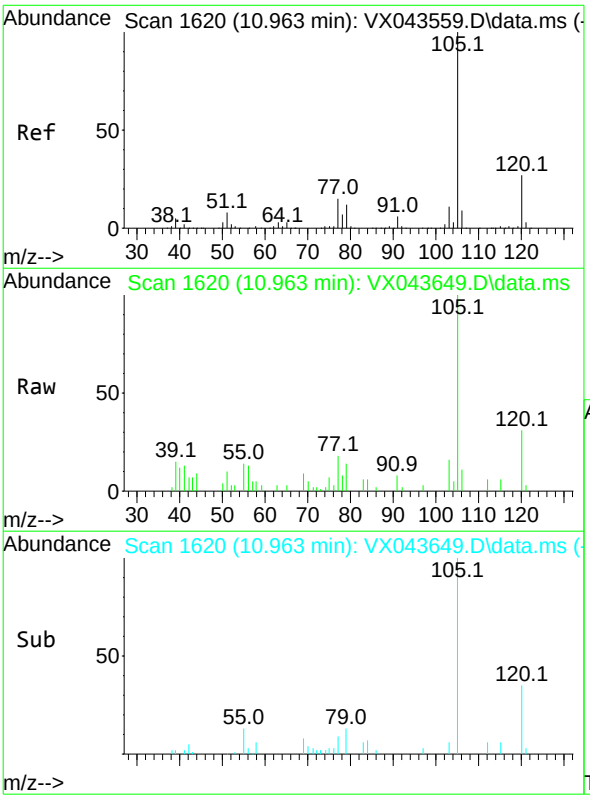
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion:152 Resp: 73845

Ion	Ratio	Lower	Upper
152	100		
115	62.1	42.9	128.7
150	160.7	0.0	343.6

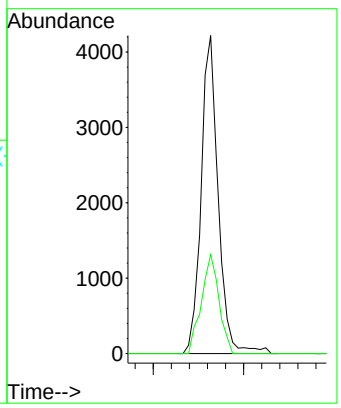


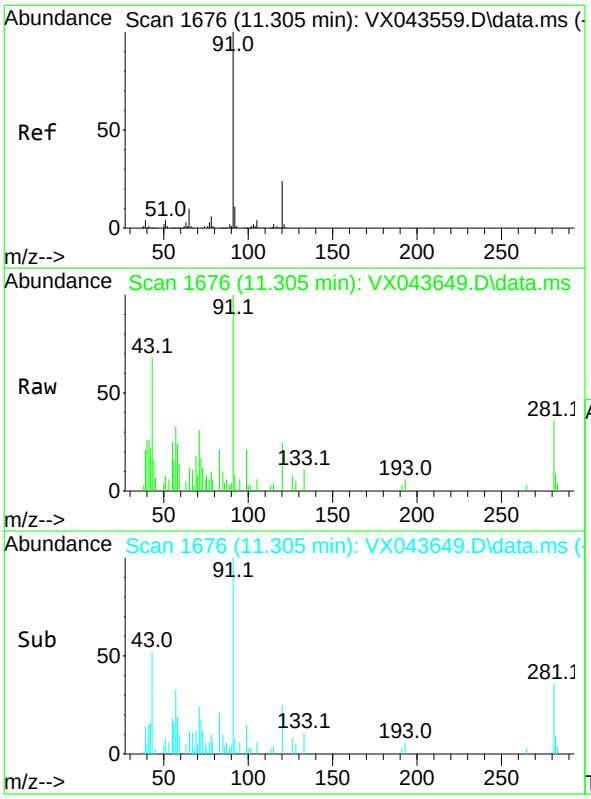


#73
Isopropylbenzene
Concen: 1.052 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion:105 Resp: 5501

Ion	Ratio	Lower	Upper
105	100		
120	32.1	13.2	39.6



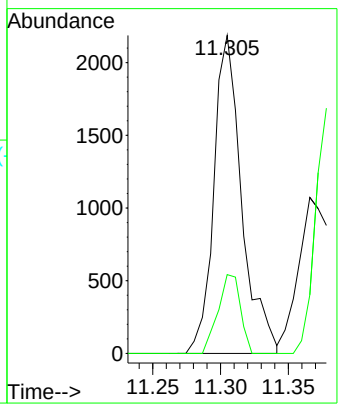


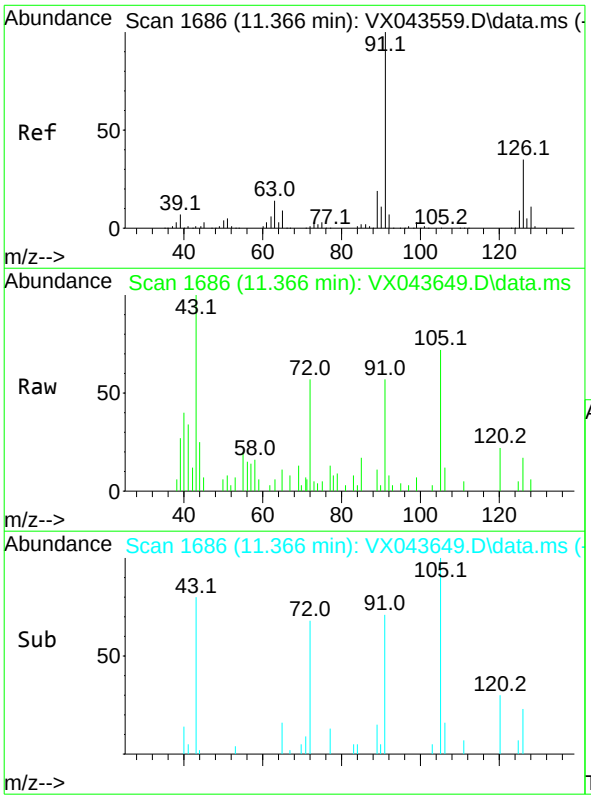
#78
n-propylbenzene
Concen: 0.549 ug/l
RT: 11.305 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion: 91 Resp: 3132

Ion	Ratio	Lower	Upper
91	100		
120	19.9	11.6	34.7

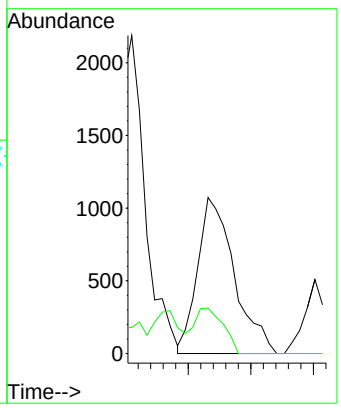


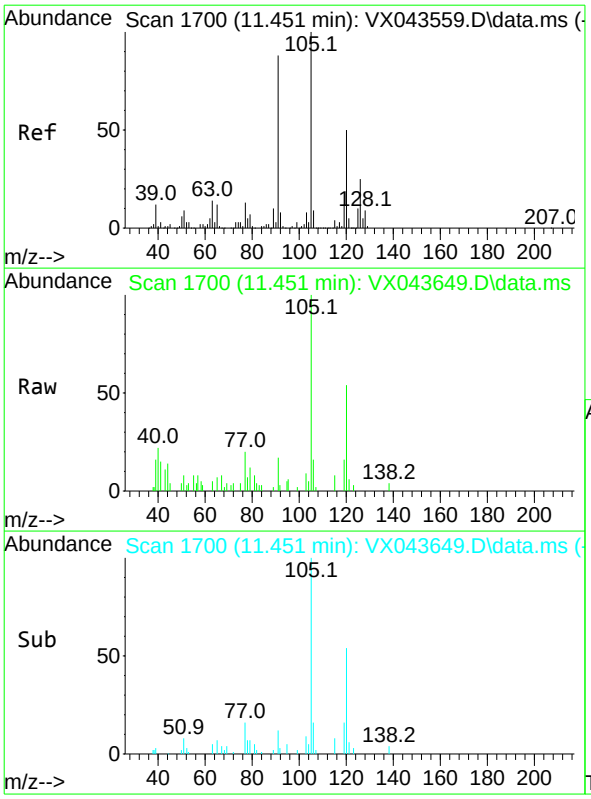


#79
2-Chlorotoluene
Concen: 0.579 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion: 91 Resp: 2188

Ion	Ratio	Lower	Upper
91	100		
126	23.0	16.7	50.0



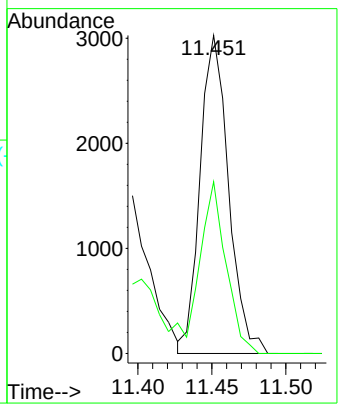


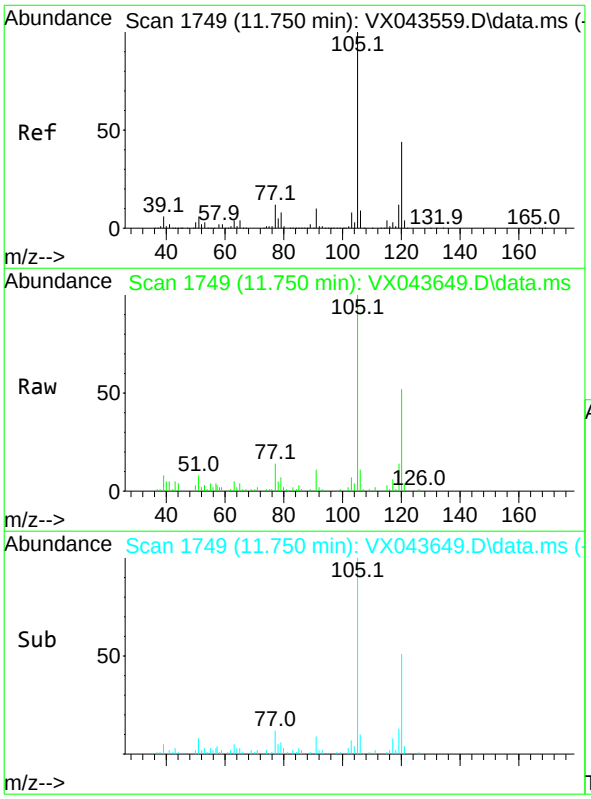
#80
1,3,5-Trimethylbenzene
Concen: 0.927 ug/l
RT: 11.451 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion:105 Resp: 4045

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.8	71.5

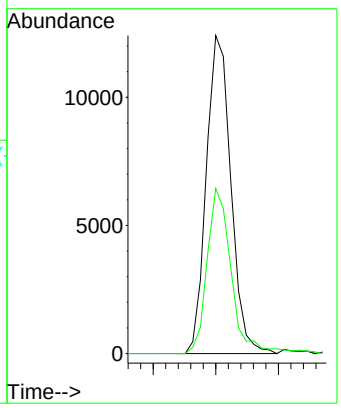


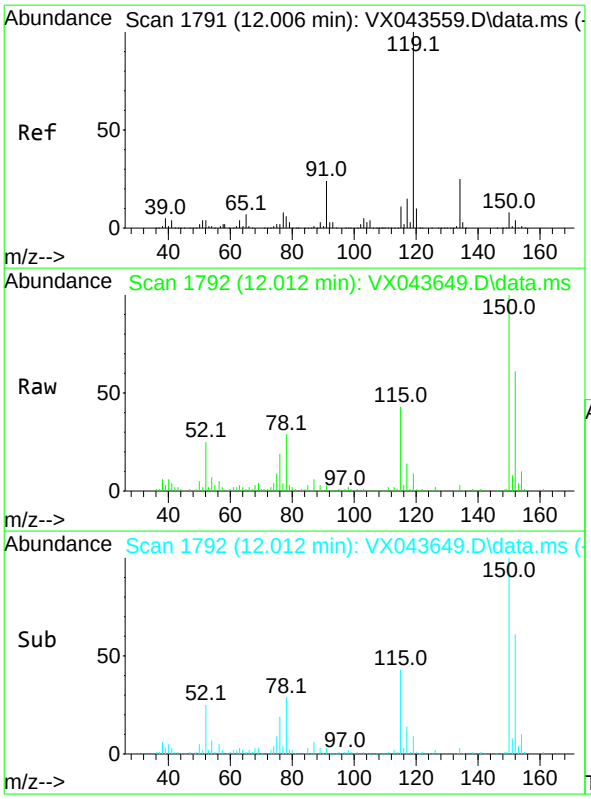


#84
1,2,4-Trimethylbenzene
Concen: 3.806 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion:105 Resp: 16916

Ion	Ratio	Lower	Upper
105	100		
120	51.4	22.1	66.1



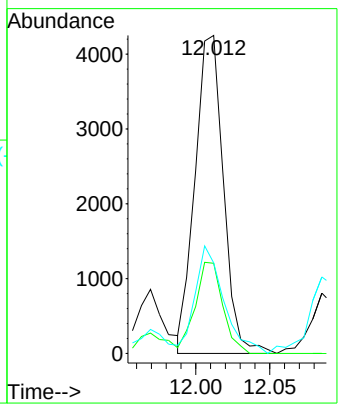


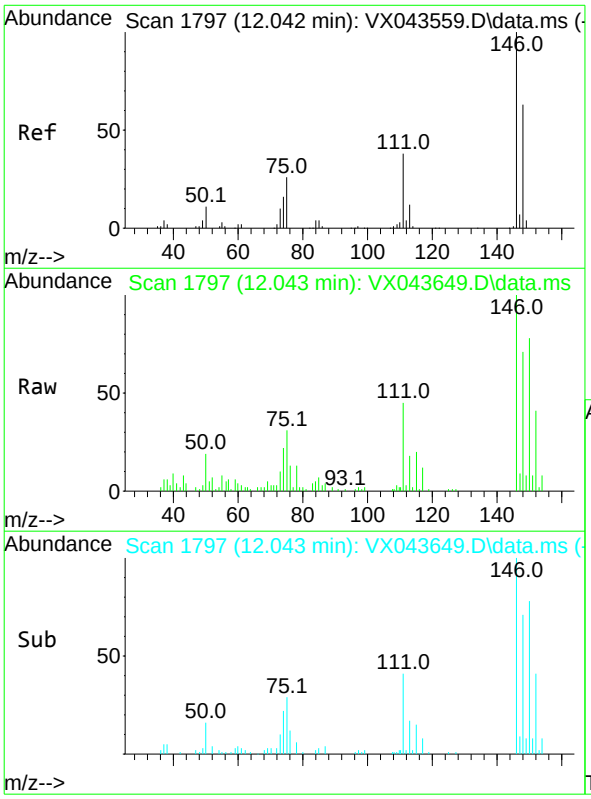
#86
p-Isopropyltoluene
Concen: 1.287 ug/l
RT: 12.012 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion:119 Resp: 5686

Ion	Ratio	Lower	Upper
119	100		
134	27.8	13.1	39.1
91	34.1	12.4	37.0

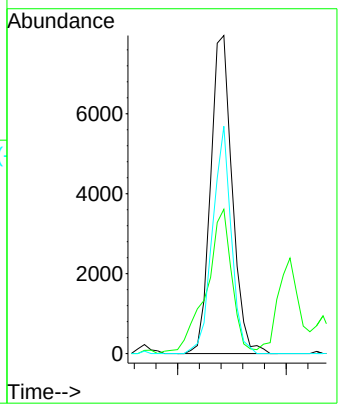


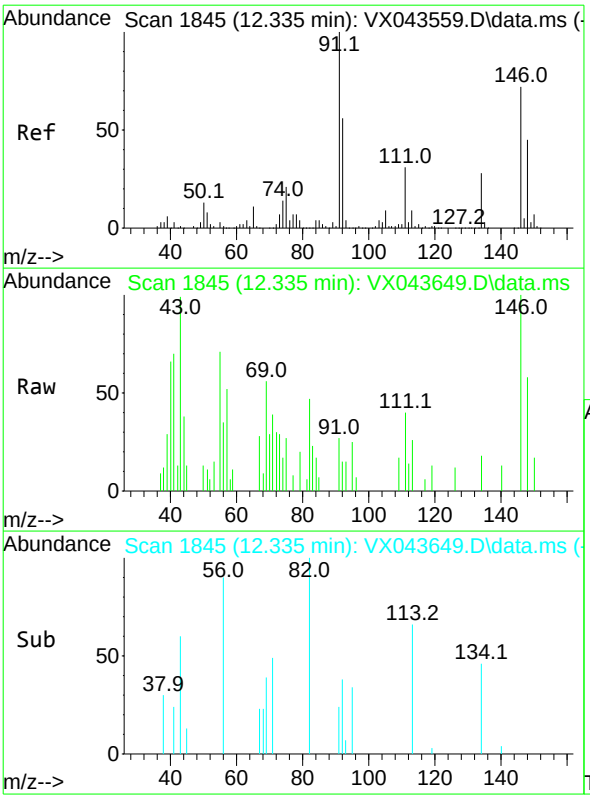


#88
1,4-Dichlorobenzene
Concen: 4.374 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion:146 Resp: 10973

Ion	Ratio	Lower	Upper
146	100		
111	53.9	20.4	61.3
148	62.4	31.9	95.9



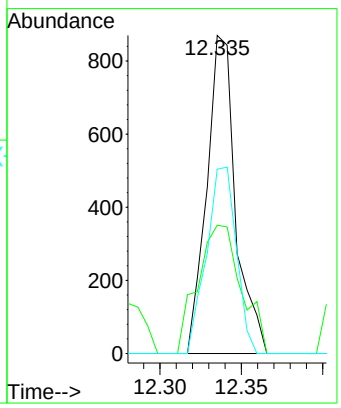


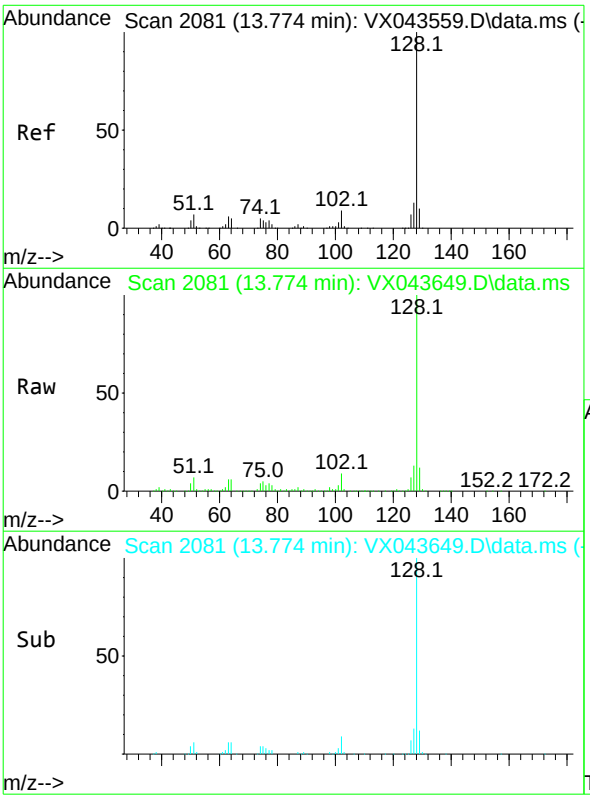
#91
1,2-Dichlorobenzene
Concen: 0.433 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Tgt Ion:146 Resp: 1071

Ion	Ratio	Lower	Upper
146	100		
111	61.4	21.6	64.6
148	60.7	31.6	95.0

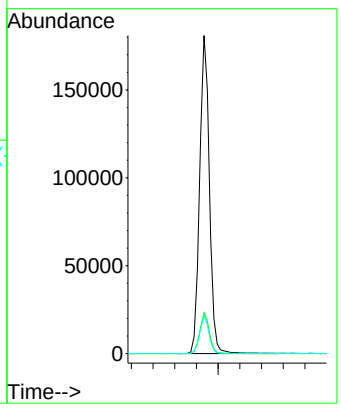




#95
Naphthalene
Concen: 39.212 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX043649.D
Acq: 31 Oct 2024 14:27

Tgt Ion:128 Resp: 225475

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.4
129	11.2	8.7	13.1



Sample Results: **VX043649.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043649.D
Acq On : 31 Oct 2024 14:27
Operator : JC/MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

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_X\Method\82X102824W.M
Title : SW846 8260

Signal : TIC: VX043649.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.252	25	27	40	rVB	89898	145534	3.64%	0.862%
2	2.386	207	213	228	rBV	189620	367898	9.21%	2.179%
3	2.995	293	313	328	rBV	772846	2576325	64.47%	15.261%
4	4.611	562	578	625	rBV	934284	3996399	100.00%	23.673%
5	5.007	633	643	667	rVB	348645	1139599	28.52%	6.751%
6	5.385	694	705	720	rVB	60648	185305	4.64%	1.098%
7	5.544	722	731	745	rBV	98223	282500	7.07%	1.673%
8	5.952	789	798	806	rBV2	74012	197804	4.95%	1.172%
9	6.038	806	812	820	rVV3	16154	43308	1.08%	0.257%
10	6.147	820	830	841	rVB3	17773	59580	1.49%	0.353%
11	6.257	841	848	858	rBV3	19235	56762	1.42%	0.336%
12	6.757	921	930	943	rBV	161354	399775	10.00%	2.368%
13	8.647	1234	1240	1247	rVV	335038	536517	13.43%	3.178%
14	8.714	1247	1251	1261	rVB2	28697	53482	1.34%	0.317%
15	9.378	1353	1360	1367	rBV	66077	104143	2.61%	0.617%
16	9.488	1374	1378	1385	rVB	26824	42317	1.06%	0.251%
17	10.055	1460	1471	1484	rBV	340452	579460	14.50%	3.433%
18	10.189	1490	1493	1505	rBV2	60062	111785	2.80%	0.662%
19	10.299	1506	1511	1520	rVV	89130	137062	3.43%	0.812%
20	10.640	1562	1567	1573	rBV	58998	83335	2.09%	0.494%
21	11.079	1634	1639	1645	rBV	275659	375311	9.39%	2.223%
22	11.506	1704	1709	1715	rVV	45888	63053	1.58%	0.374%
23	11.750	1745	1749	1754	rVB	36472	49623	1.24%	0.294%
24	11.884	1767	1771	1780	rVB	57489	77963	1.95%	0.462%
25	12.018	1787	1793	1801	rBV	352642	510985	12.79%	3.027%
26	12.097	1801	1806	1810	rBV2	54675	91837	2.30%	0.544%
27	12.140	1810	1813	1822	rVB6	18656	42296	1.06%	0.251%
28	12.244	1822	1830	1834	rBV2	39275	75676	1.89%	0.448%
29	12.762	1906	1915	1920	rBV	111178	168658	4.22%	0.999%
30	12.902	1927	1938	1944	rBV	730239	964756	24.14%	5.715%
31	12.963	1944	1948	1958	rVB4	49468	91889	2.30%	0.544%
32	13.213	1985	1989	1995	rVB6	37052	69745	1.75%	0.413%
33	13.286	1995	2001	2005	rBV3	31798	46859	1.17%	0.278%
34	13.335	2005	2009	2012	rBV2	62757	84570	2.12%	0.501%
35	13.475	2027	2032	2034	rBV2	159507	240697	6.02%	1.426%
36	13.506	2034	2037	2045	rVB	1025842	1375271	34.41%	8.147%

Sample Results: **VX043649.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043649.D
Acq On : 31 Oct 2024 14:27
Operator : JC/MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

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_X\Method\82X102824W.M
Title : SW846 8260

37	13.591	2045	2051	2060	rBV2	202444	314821	7.88%	1.865%
38	13.731	2070	2074	2077	rBV2	81751	101893	2.55%	0.604%
39	13.774	2077	2081	2089	rVB	379719	469238	11.74%	2.780%
40	13.932	2100	2107	2113	rVB5	45575	102111	2.56%	0.605%
41	14.097	2127	2134	2146	rBV2	139792	218752	5.47%	1.296%
42	14.634	2219	2222	2234	rVB	42074	79946	2.00%	0.474%
43	14.780	2239	2246	2252	rVB2	38143	60476	1.51%	0.358%
44	16.213	2475	2481	2494	rBV3	26145	63478	1.59%	0.376%
45	16.328	2494	2500	2506	rVB	23506	42584	1.07%	0.252%

Sum of corrected areas: 16881378

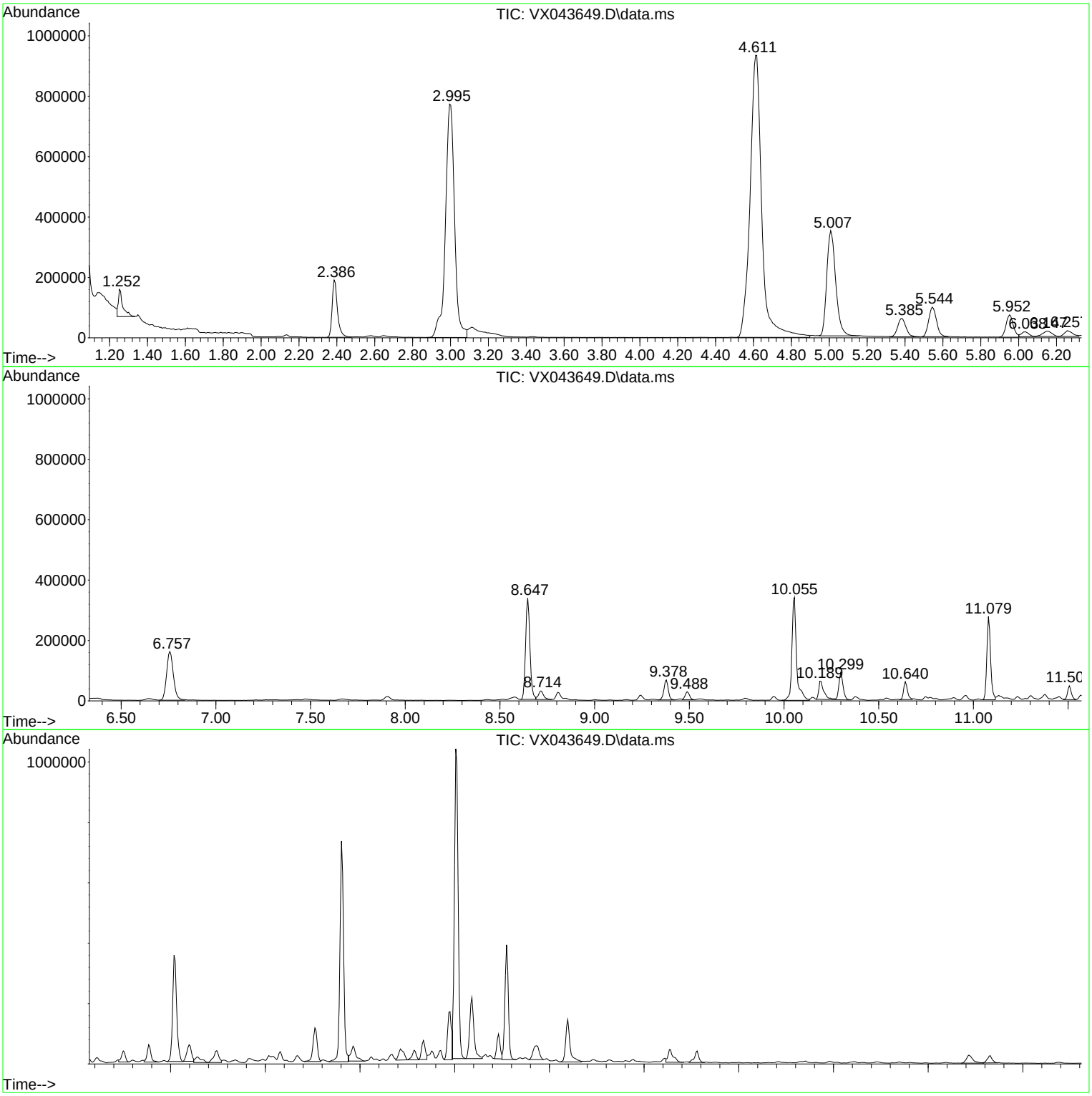
Sample Results: **VX043649.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043649.D
Acq On : 31 Oct 2024 14:27
Operator : JC/MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043649.D
Acq On : 31 Oct 2024 14:27
Operator : JC/MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

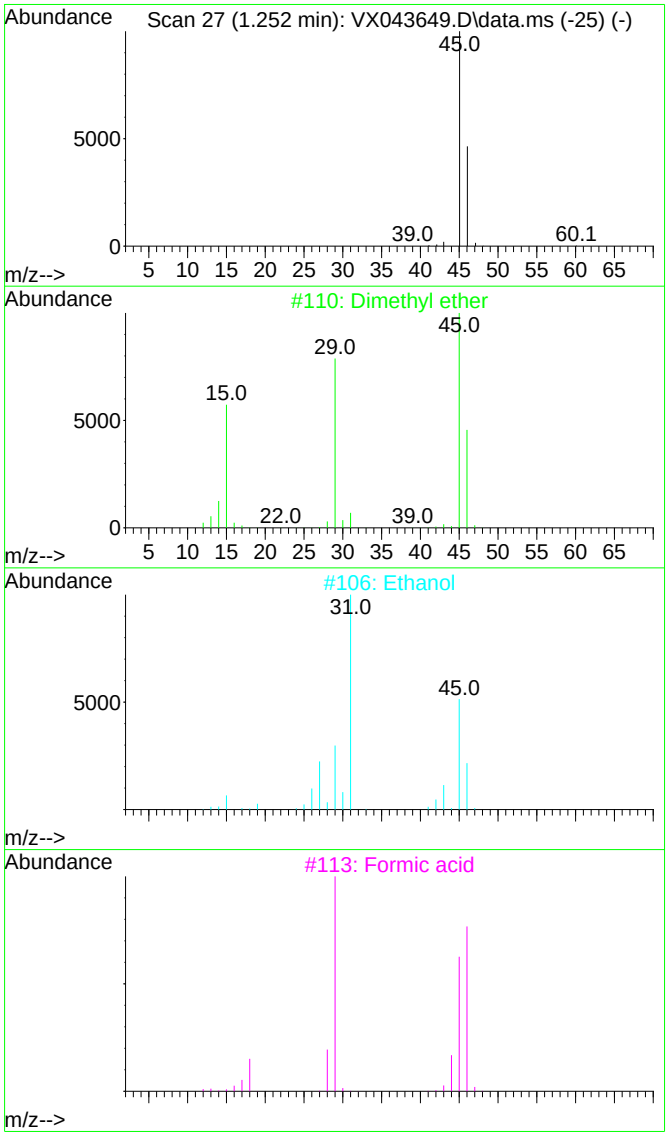
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

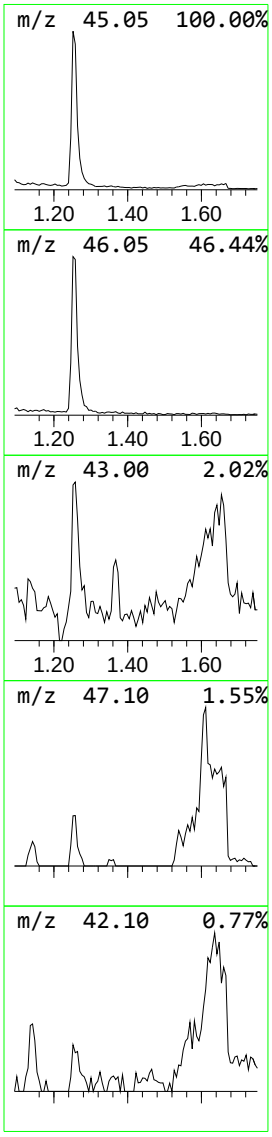
****

Peak Number 1 Dimethyl ether Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.252	25.76 ug/l	145534	Pentafluorobenzene	5.544

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dimethyl ether	46	C2H6O	000115-10-6	74
2	Ethanol	46	C2H6O	000064-17-5	7
3	Formic acid	46	CH2O2	000064-18-6	5
4	Oxalic acid	90	C2H2O4	000144-62-7	4
5	Methane, nitroso-	45	CH3NO	000865-40-7	3





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043649.D
Acq On : 31 Oct 2024 14:27
Operator : JC/MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

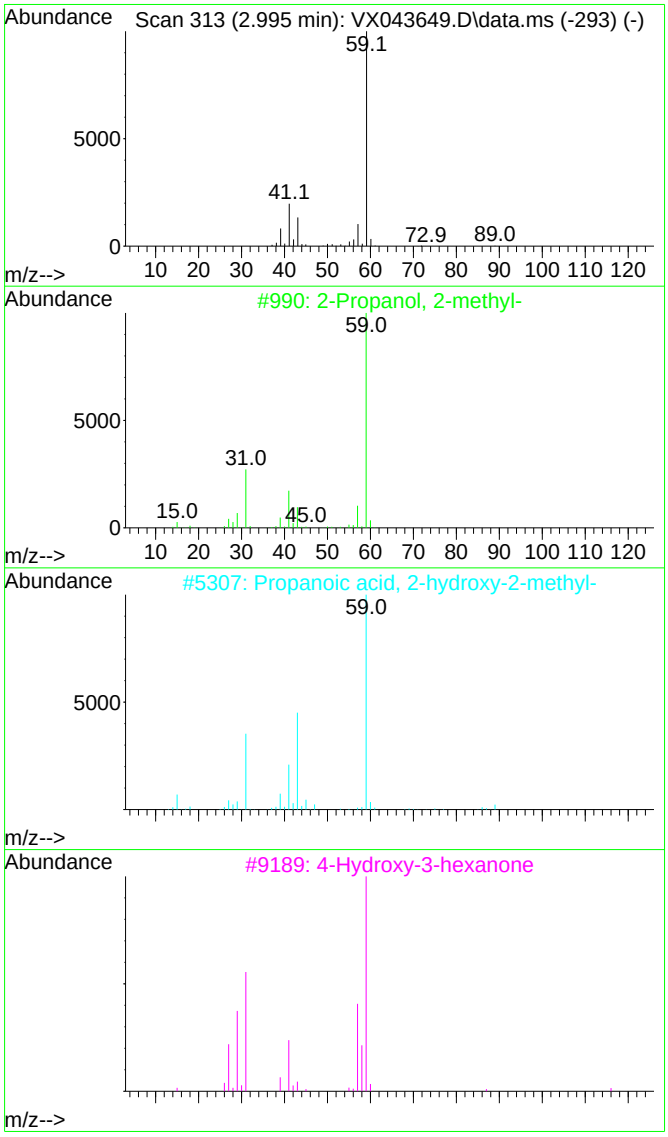
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

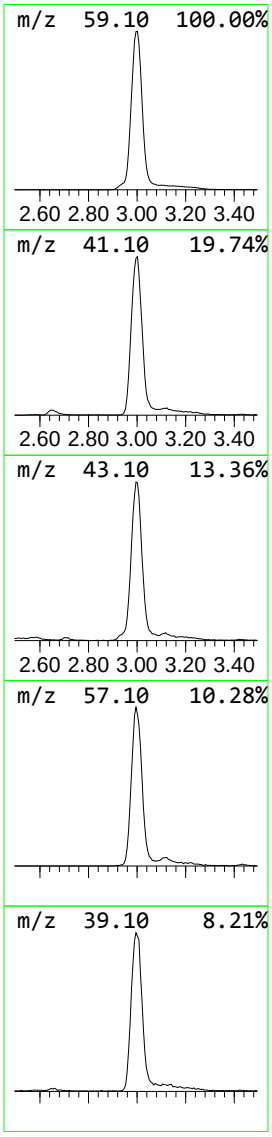
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Propanol, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.995	455.99 ug/l	2576330	Pentafluorobenzene	5.544

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	83
2	Propanoic acid, 2-hydroxy-2-methyl-	104	C4H8O3	000594-61-6	9
3	4-Hydroxy-3-hexanone	116	C6H12O2	004984-85-4	9
4	Formamide, N-methyl-	59	C2H5NO	000123-39-7	5
5	Guanidine	59	CH5N3	000113-00-8	4





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043649.D
Acq On : 31 Oct 2024 14:27
Operator : JC/MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

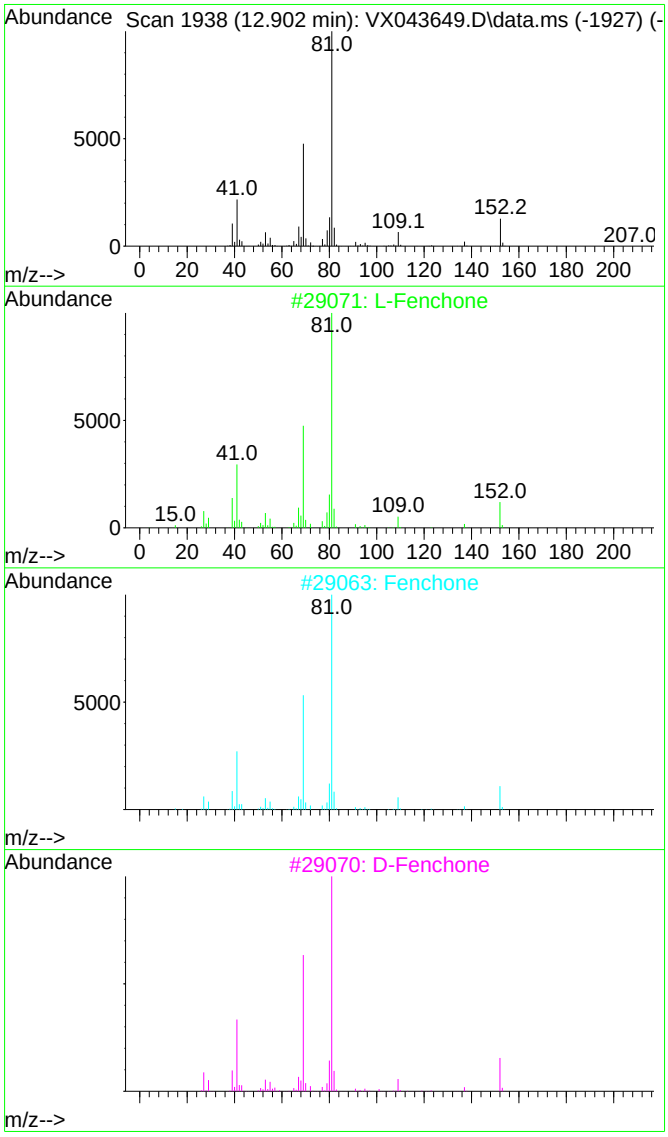
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

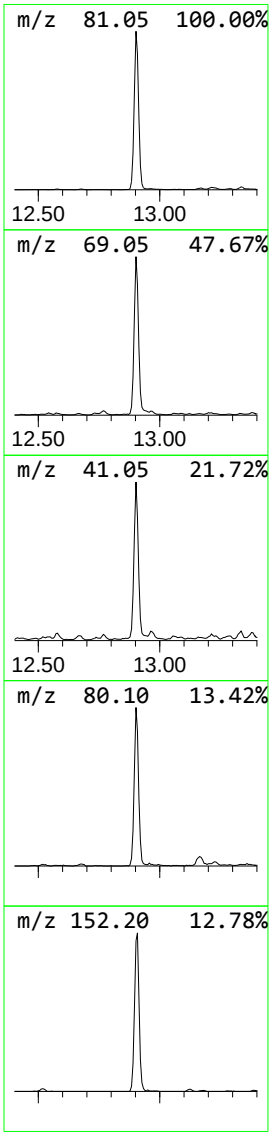
****

Peak Number 5 L-Fenchone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.902	94.40 ug/l	964756	1,4-Dichlorobenzene-d4	12.024

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	L-Fenchone	152	C10H16O	007787-20-4	95
2	Fenchone	152	C10H16O	001195-79-5	95
3	D-Fenchone	152	C10H16O	004695-62-9	94
4	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	45
5	2-Cyclopentene-1-carboxylic acid...	140	C8H12O2	068317-73-7	42





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043649.D
Acq On : 31 Oct 2024 14:27
Operator : JC/MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

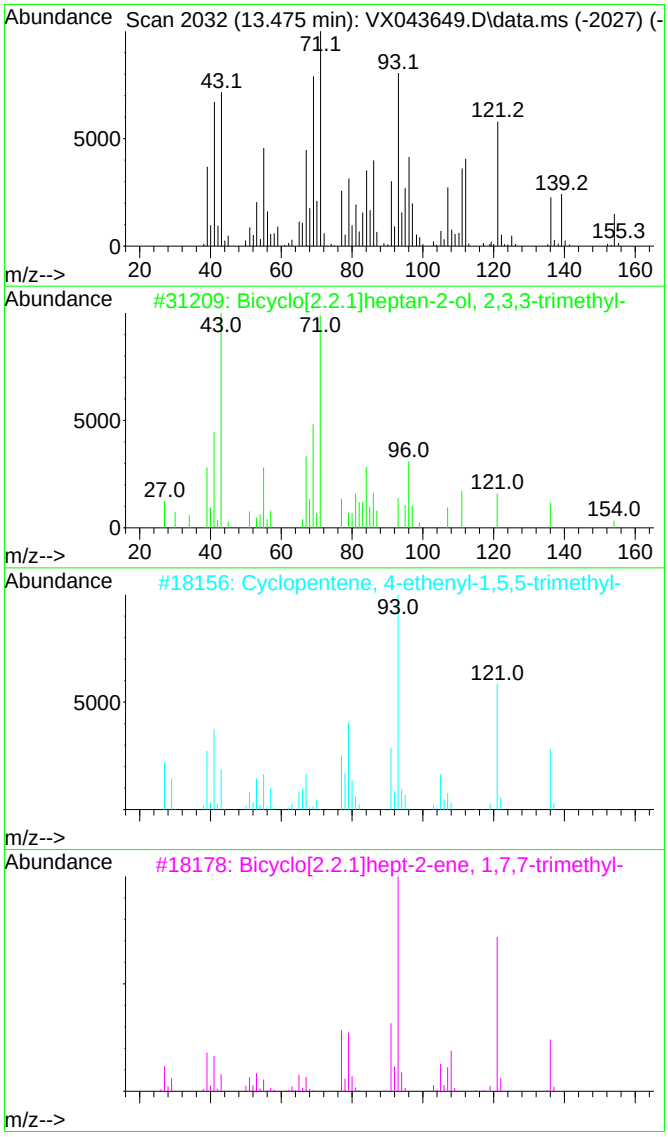
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

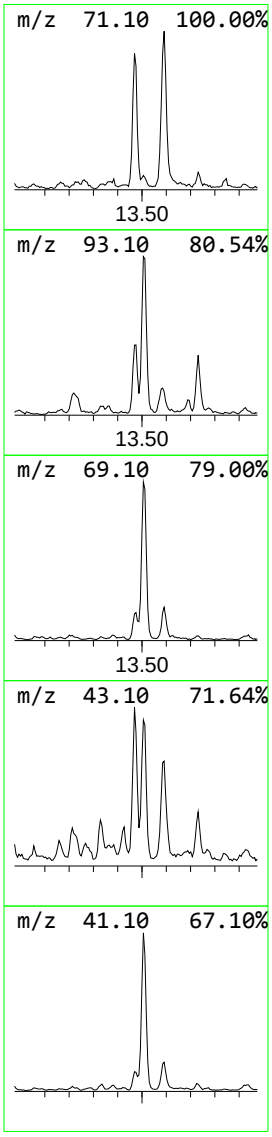
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 unknown13.475 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.475	23.55 ug/l	240697	1,4-Dichlorobenzene-d4	12.024

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[2.2.1]heptan-2-ol, 2,3,3...	154	C10H18O	000465-31-6	30
2	Cyclopentene, 4-ethenyl-1,5,5-tr...	136	C10H16	001727-69-1	25
3	Bicyclo[2.2.1]hept-2-ene, 1,7,7-...	136	C10H16	000464-17-5	25
4	Terpinen-4-ol	154	C10H18O	000562-74-3	18
5	2-Cyclohexen-1-ol, 1-methyl-4-(1...	154	C10H18O	029803-82-5	18





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043649.D
Acq On : 31 Oct 2024 14:27
Operator : JC/MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

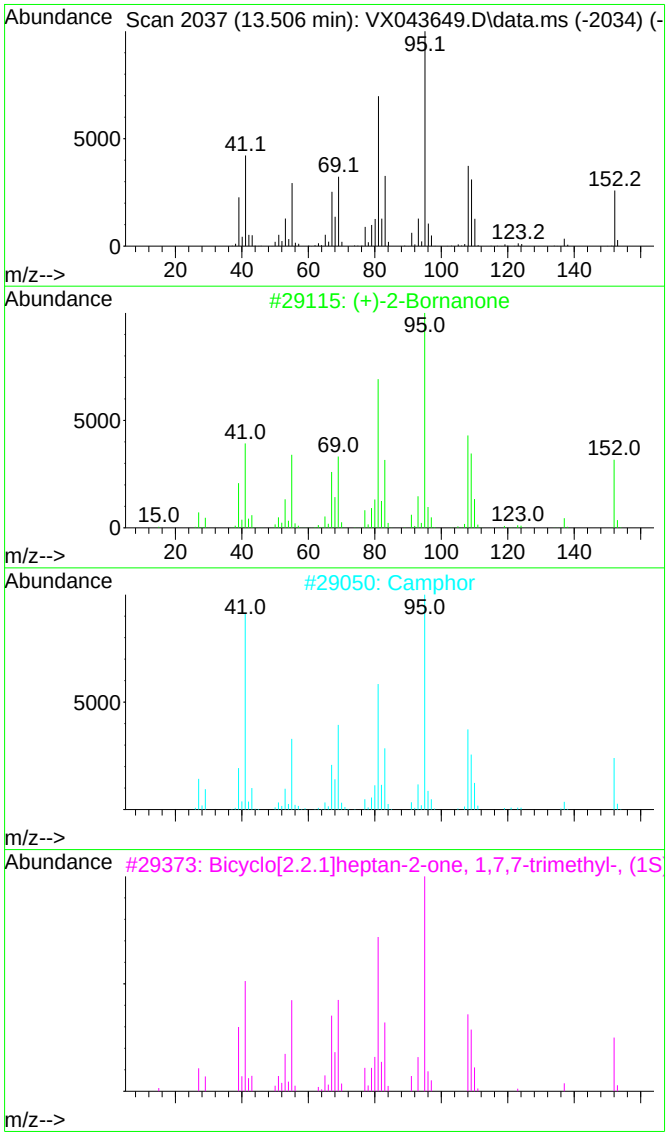
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

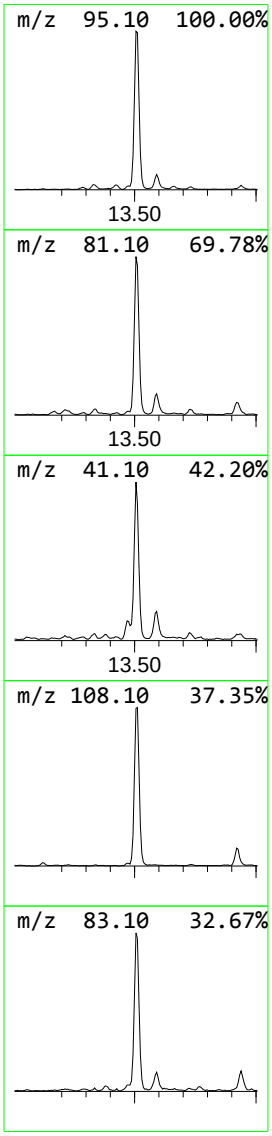
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 (+)-2-Bornanone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.506	134.57 ug/l	1375270	1,4-Dichlorobenzene-d4	12.024

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(+)-2-Bornanone	152	C10H16O	000464-49-3	98
2	Camphor	152	C10H16O	000076-22-2	98
3	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	97
4	2-Butanone, 4-(5-methyl-2-furanyl)-	152	C9H12O2	013679-56-6	49
5	1,3-Dimethyl-1-cyclohexene	110	C8H14	002808-76-6	46





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043649.D
Acq On : 31 Oct 2024 14:27
Operator : JC/MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

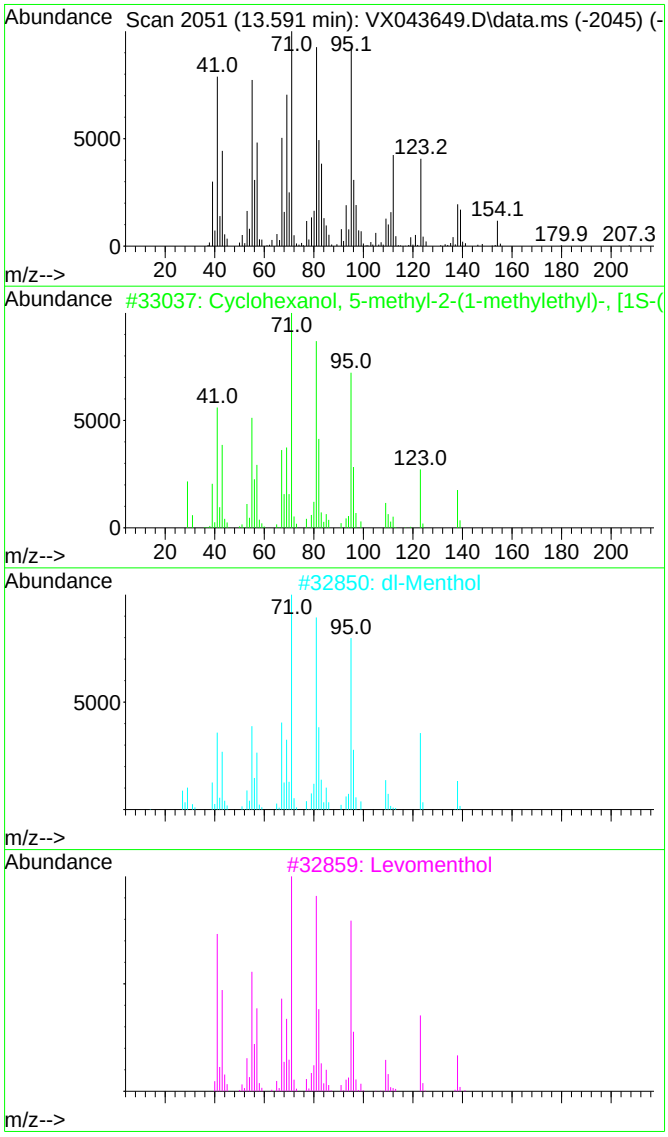
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

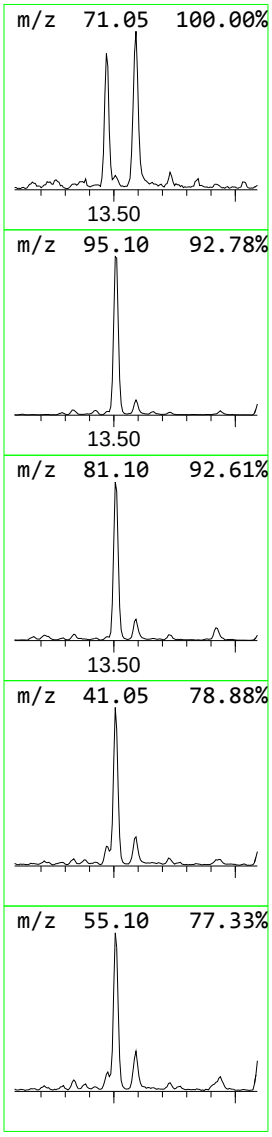
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Cyclohexanol, 5-methyl-2-(1... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.591	30.81 ug/l	314821	1,4-Dichlorobenzene-d4	12.024

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanol, 5-methyl-2-(1-meth...	156	C10H20O	002216-52-6	74
2	dl-Menthol	156	C10H20O	000089-78-1	68
3	Levomenthol	156	C10H20O	002216-51-5	68
4	Cyclohexanol, 5-methyl-2-(1-meth...	156	C10H20O	001490-04-6	64
5	d-Menthol	156	C10H20O	015356-60-2	58





Sample Results: **VX043649.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043649.D
Acq On : 31 Oct 2024 14:27
Operator : JC/MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

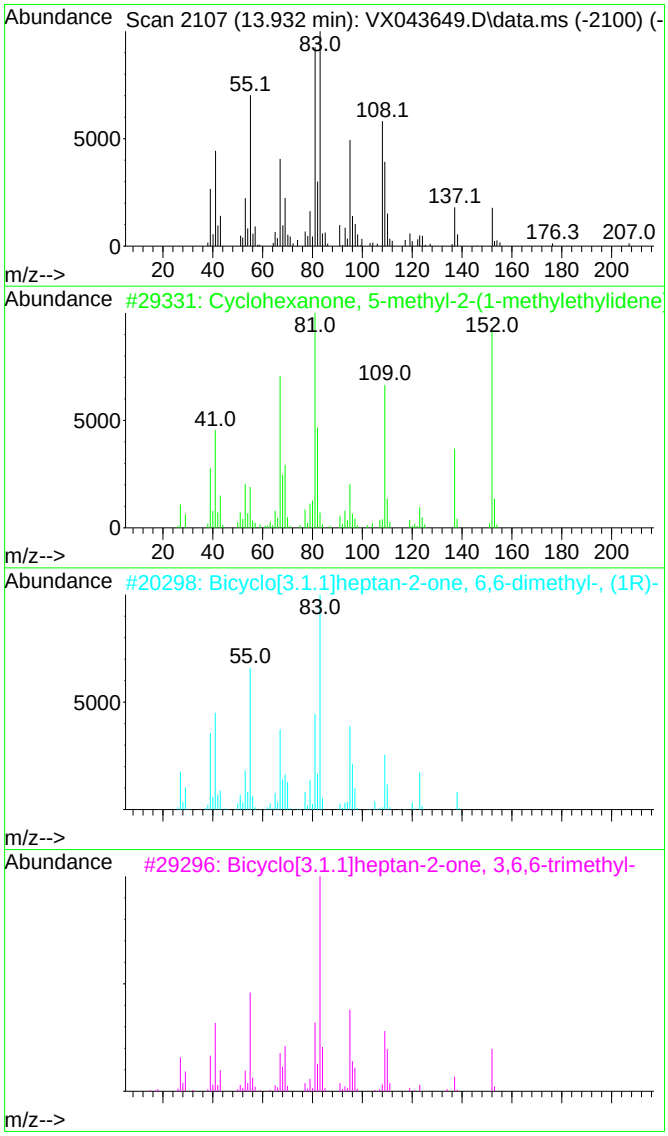
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

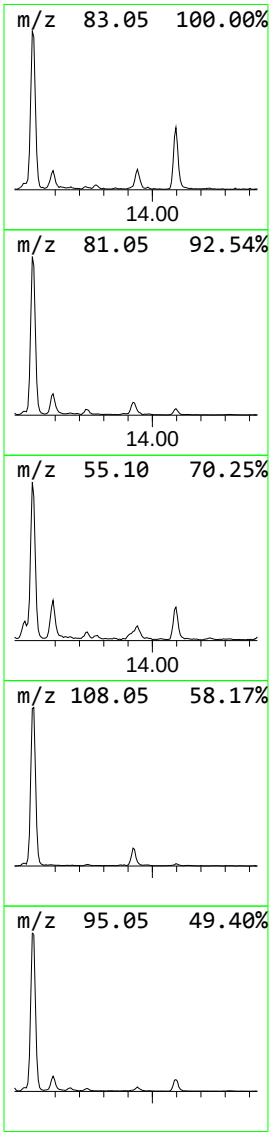
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 unknown13.932 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.932	9.99 ug/l	102111	1,4-Dichlorobenzene-d4	12.024

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	49
2	Bicyclo[3.1.1]heptan-2-one, 6,6-...	138	C9H14O	038651-65-9	46
3	Bicyclo[3.1.1]heptan-2-one, 3,6,...	152	C10H16O	016022-08-5	38
4	Spiro[3.4]octan-1-one, 5-methyl-...	138	C9H14O	065147-55-9	38
5	Cyclohexene, 1-pentyl-	152	C11H20	015232-85-6	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043649.D
Acq On : 31 Oct 2024 14:27
Operator : JC/MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

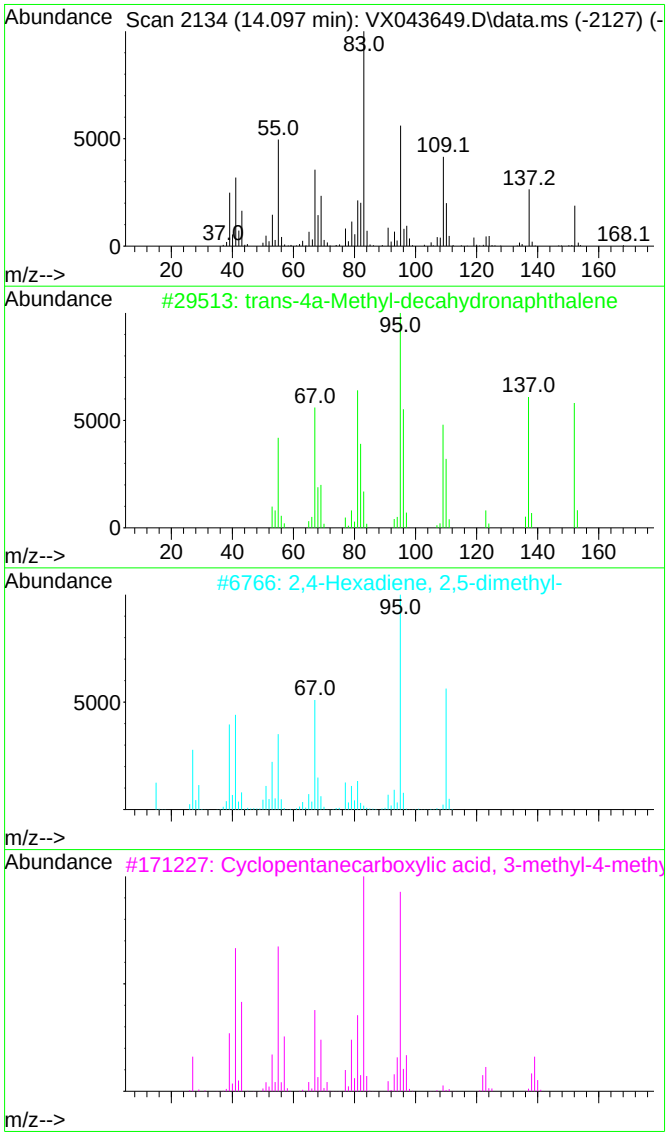
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

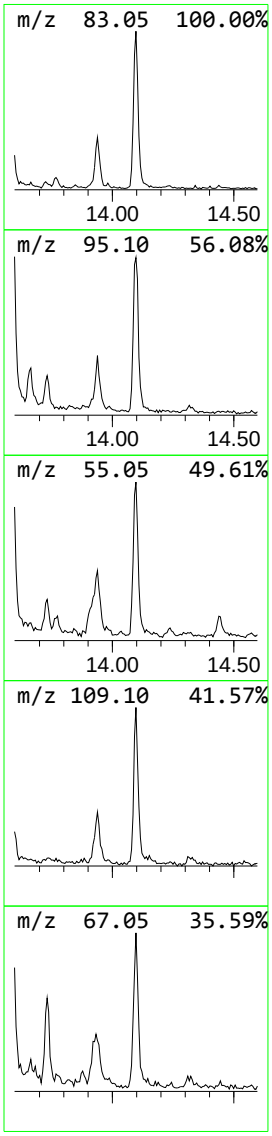
****

Peak Number 10 unknown14.097 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.097	21.40 ug/l	218752	1,4-Dichlorobenzene-d4	12.024

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-4a-Methyl-decahydronaphtha...	152	C11H20	002547-27-5	46
2	2,4-Hexadiene, 2,5-dimethyl-	110	C8H14	000764-13-6	35
3	Cyclopentanecarboxylic acid, 3-m...	278	C18H30O2	1000152-25-8	22
4	5,5-Dimethyl-1,3-hexadiene	110	C8H14	001515-79-3	20
5	Cyclopentane, 1,2-dimethyl-3-met...	110	C8H14	1000150-99-3	20





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043649.D
Acq On : 31 Oct 2024 14:27
Operator : JC/MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030069-01-VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Dimethyl ether	1.252	25.8	ug/l	145534	1	5.544	282500	50.0
2-Propanol, 2-m...	2.995	456.0	ug/l	2576330	1	5.544	282500	50.0
L-Fenchone	12.902	94.4	ug/l	964756	4	12.024	510985	50.0
unknown13.475	13.475	23.6	ug/l	240697	4	12.024	510985	50.0
(+)-2-Bornanone	13.506	134.6	ug/l	1375270	4	12.024	510985	50.0
Cyclohexanol, 5...	13.591	30.8	ug/l	314821	4	12.024	510985	50.0
unknown13.932	13.932	10.0	ug/l	102111	4	12.024	510985	50.0
unknown14.097	14.097	21.4	ug/l	218752	4	12.024	510985	50.0

Raw Data: **VX043648.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030043-05-TRIP-BLANK	SDG No.:	P4646
Lab Sample ID:	P4646-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043648.D	1		10/31/24 14:03	VX103124

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

Raw Data: **VX043648.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030043-05-TRIP-BLANK	SDG No.:	P4646
Lab Sample ID:	P4646-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043648.D	1		10/31/24 14:03	VX103124

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	42.2		74 - 125	84%	SPK: 50
1868-53-7	Dibromofluoromethane	45.6		75 - 124	91%	SPK: 50
2037-26-5	Toluene-d8	49.2		86 - 113	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		77 - 121	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	101000	5.55			
540-36-3	1,4-Difluorobenzene	187000	6.757			
3114-55-4	Chlorobenzene-d5	165000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	72800	12.024			

Raw Data: **VX043648.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030043-05-TRIP-BLANK	SDG No.:	P4646
Lab Sample ID:	P4646-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043648.D	1		10/31/24 14:03	VX103124

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

Sample Results: **VX043648.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043648.D
Acq On : 31 Oct 2024 14:03
Operator : JC/MD
Sample : P4646-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030043-05-TRIP-BLANK

Quant Time: Nov 01 00:53:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	100945	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	187057	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	165157	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	72782	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	67910	42.191	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	84.380%		
35) Dibromofluoromethane	5.385	113	57787	45.558	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.120%		
50) Toluene-d8	8.647	98	216071	49.210	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.420%		
62) 4-Bromofluorobenzene	11.079	95	77017	47.336	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	94.680%		
Target Compounds						Qvalue
18) Methyl Acetate	2.721	43	886	0.474	ug/l #	61

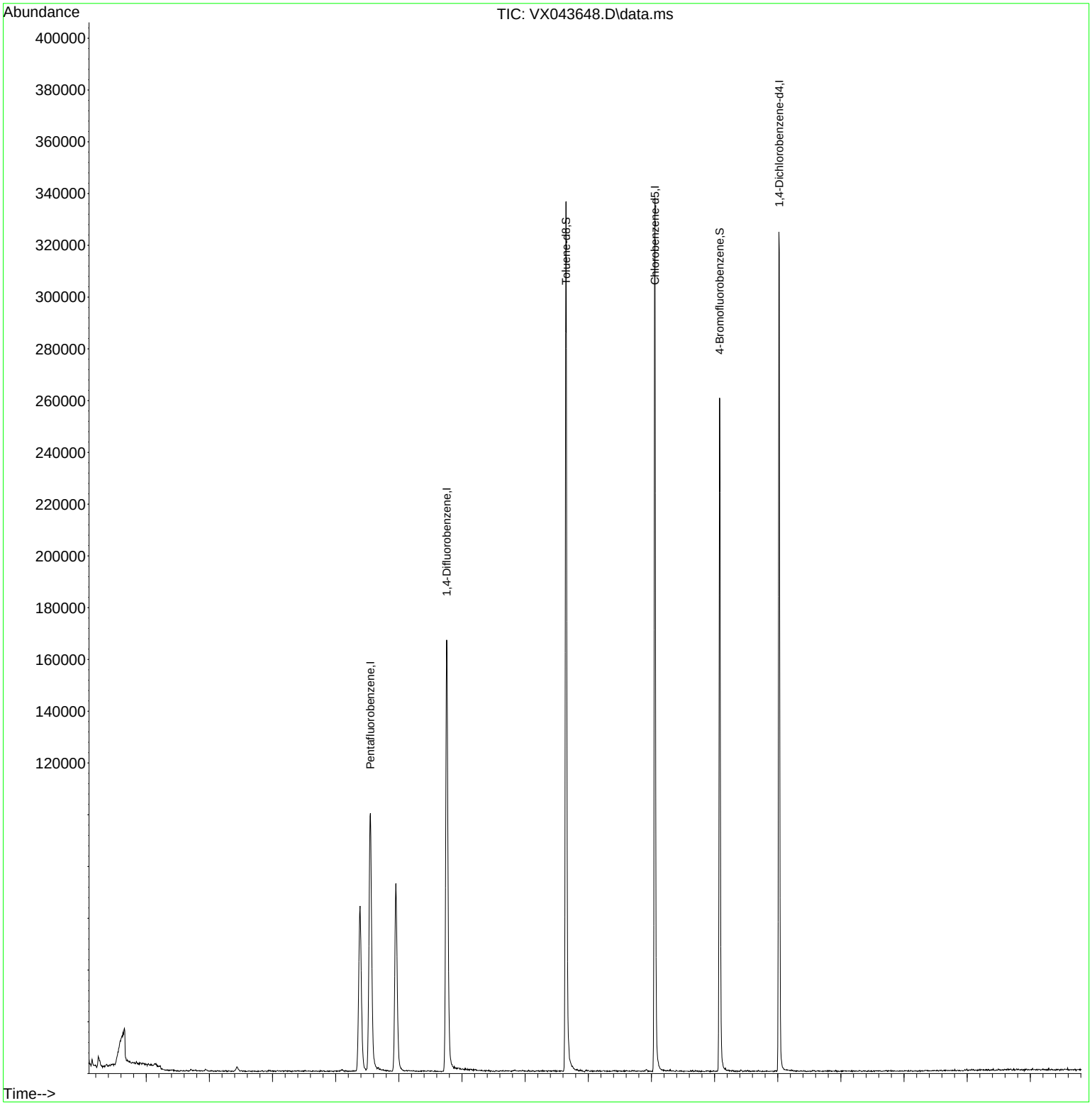
(#) = qualifier out of range (m) = manual integration (+) = signals summed

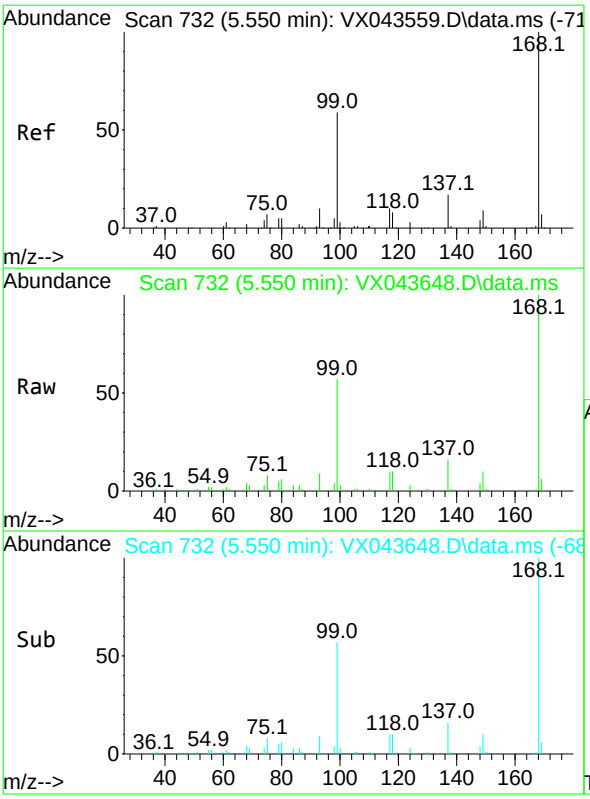
Sample Results: **VX043648.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043648.D
Acq On : 31 Oct 2024 14:03
Operator : JC/MD
Sample : P4646-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030043-05-TRIP-BLANK

Quant Time: Nov 01 00:53:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration



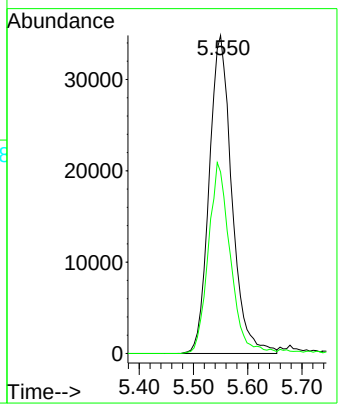


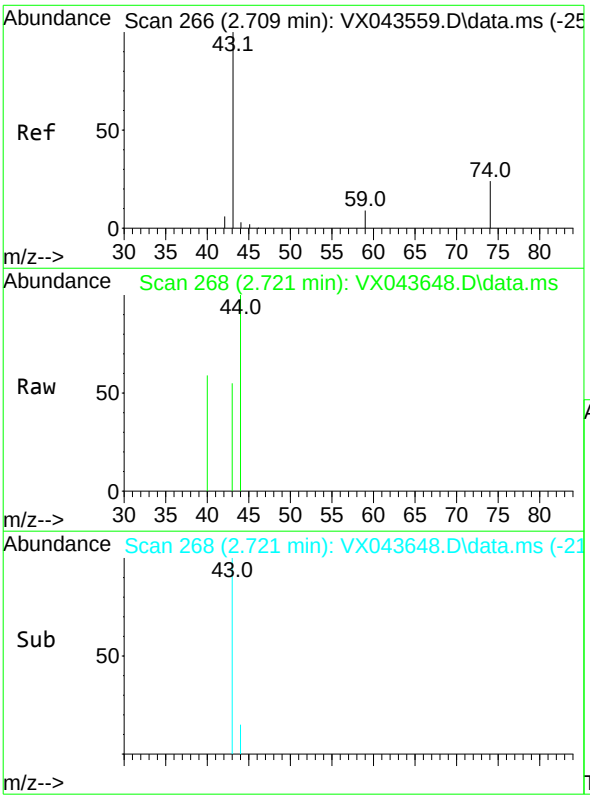
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX043648.D
Acq: 31 Oct 2024 14:03

Instrument :
MSVOA_X
ClientSampleId :
241030043-05-TRIP-BLANK

Tgt Ion:168 Resp: 100945

Ion	Ratio	Lower	Upper
168	100		
99	57.1	52.6	78.8

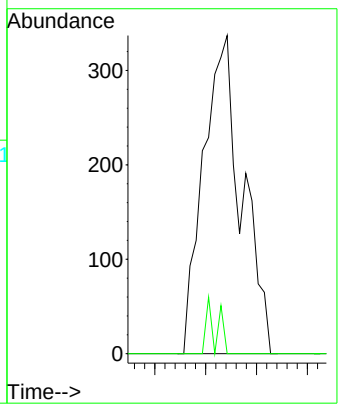


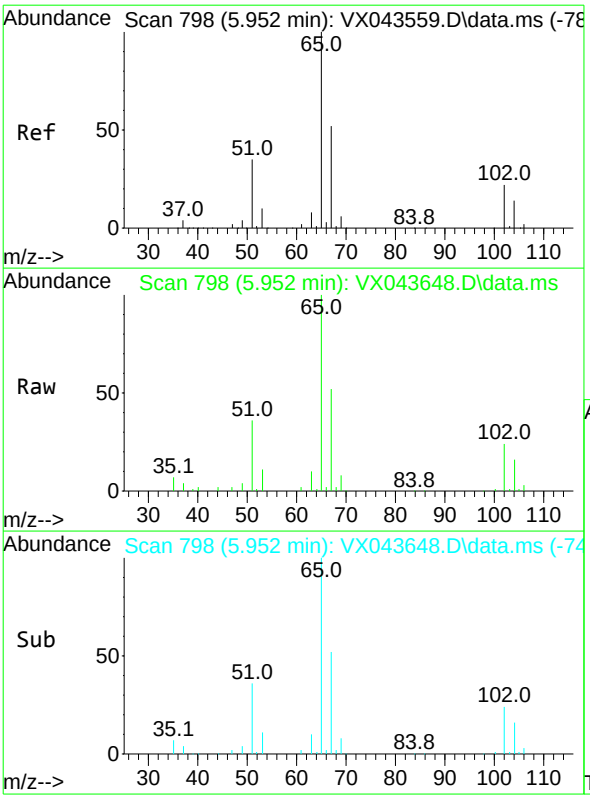


#18
Methyl Acetate
Concen: 0.474 ug/l
RT: 2.721 min Scan# 268
Delta R.T. 0.012 min
Lab File: VX043648.D
Acq: 31 Oct 2024 14:03

Tgt Ion: 43 Resp: 886

Ion	Ratio	Lower	Upper
43	100		
74	4.6	19.1	28.7#



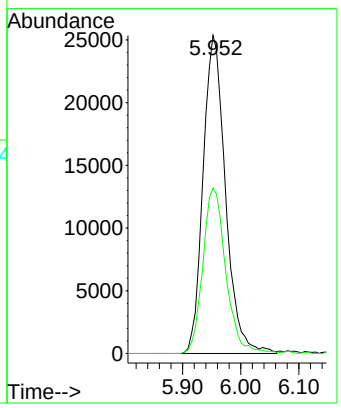


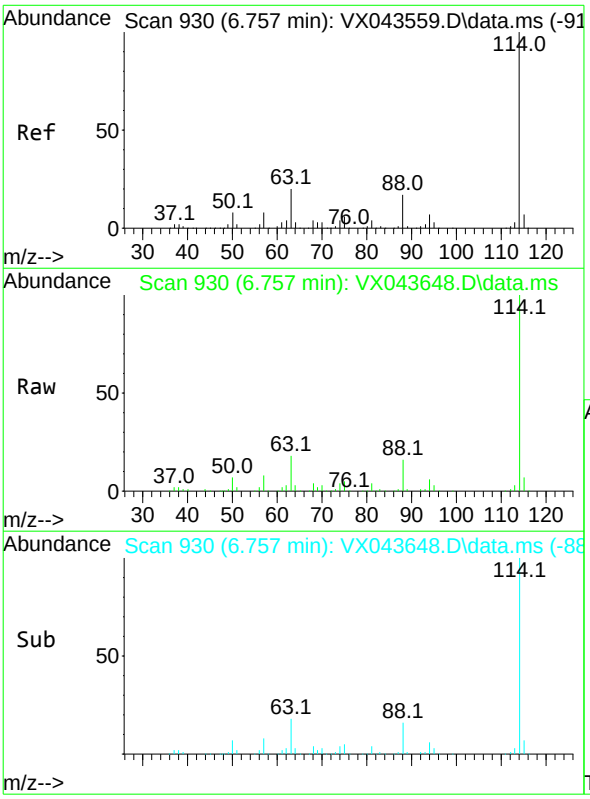
#33
1,2-Dichloroethane-d4
Concen: 42.191 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.000 min
Lab File: VX043648.D
Acq: 31 Oct 2024 14:03

Instrument :
MSVOA_X
ClientSampleId :
241030043-05-TRIP-BLANK

Tgt Ion: 65 Resp: 67910

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	103.4

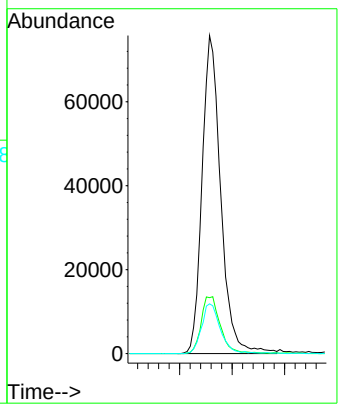


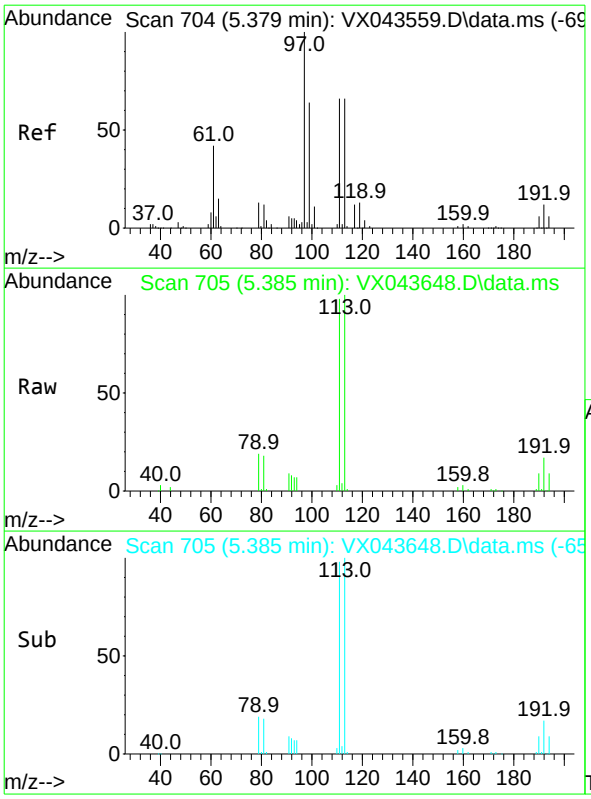


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX043648.D
Acq: 31 Oct 2024 14:03

Tgt Ion:114 Resp: 187057

Ion	Ratio	Lower	Upper
114	100		
63	17.6	0.0	41.2
88	15.6	0.0	34.0



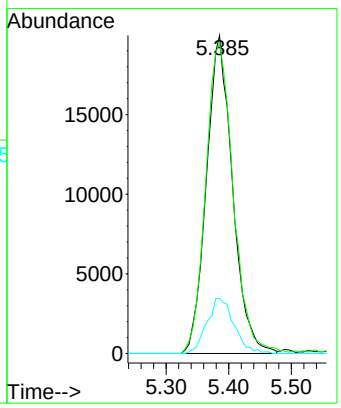


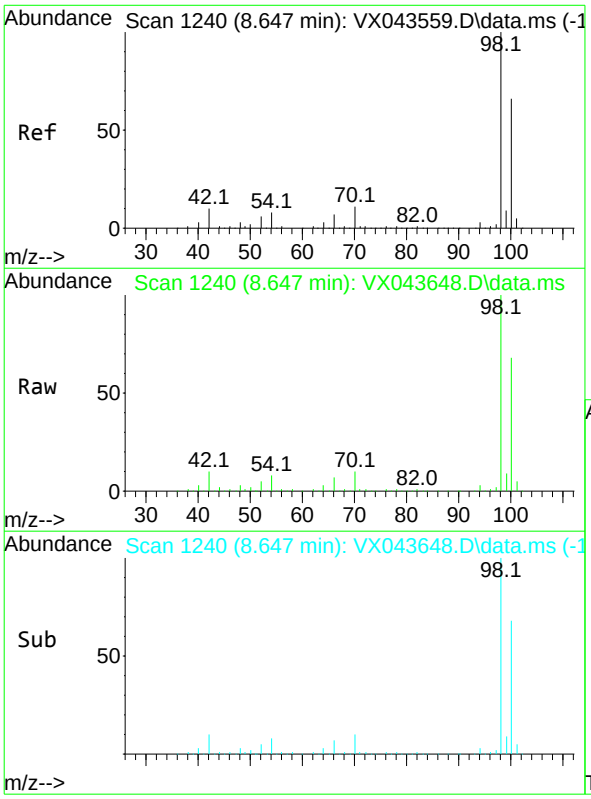
#35
Dibromofluoromethane
Concen: 45.558 ug/l
RT: 5.385 min Scan# 70
Delta R.T. 0.000 min
Lab File: VX043648.D
Acq: 31 Oct 2024 14:03

Instrument :
MSVOA_X
ClientSampleId :
241030043-05-TRIP-BLANK

Tgt Ion:113 Resp: 57787

Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.4	122.0
192	18.0	14.1	21.1

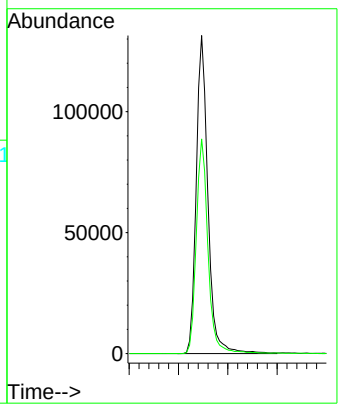


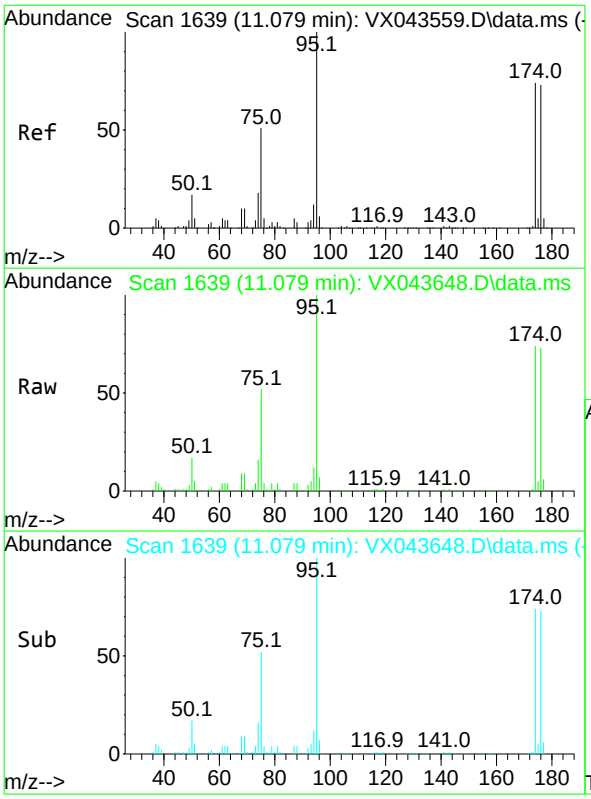


#50
Toluene-d8
Concen: 49.210 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX043648.D
Acq: 31 Oct 2024 14:03

Tgt Ion: 98 Resp: 216071

Ion	Ratio	Lower	Upper
98	100		
100	67.6	53.4	80.2



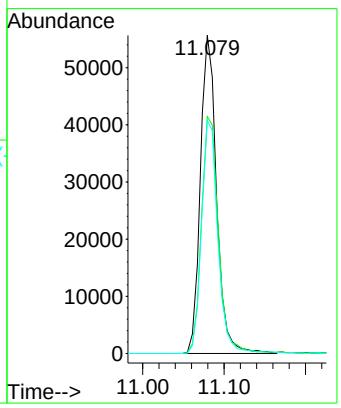


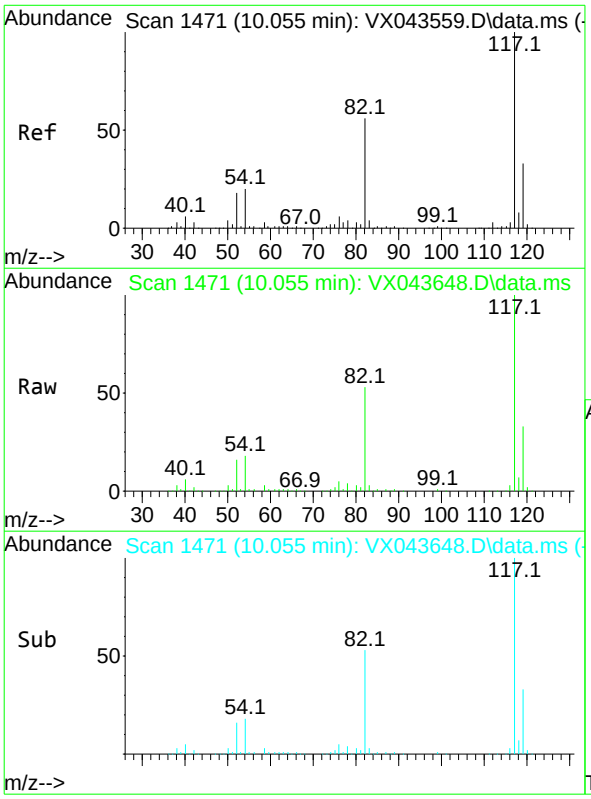
#62
4-Bromofluorobenzene
Concen: 47.336 ug/l
RT: 11.079 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX043648.D
Acq: 31 Oct 2024 14:03

Instrument :
MSVOA_X
ClientSampleId :
241030043-05-TRIP-BLANK

Tgt Ion: 95 Resp: 77017

Ion	Ratio	Lower	Upper
95	100		
174	77.9	0.0	146.6
176	74.1	0.0	139.6

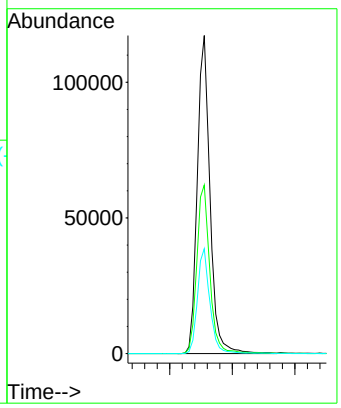


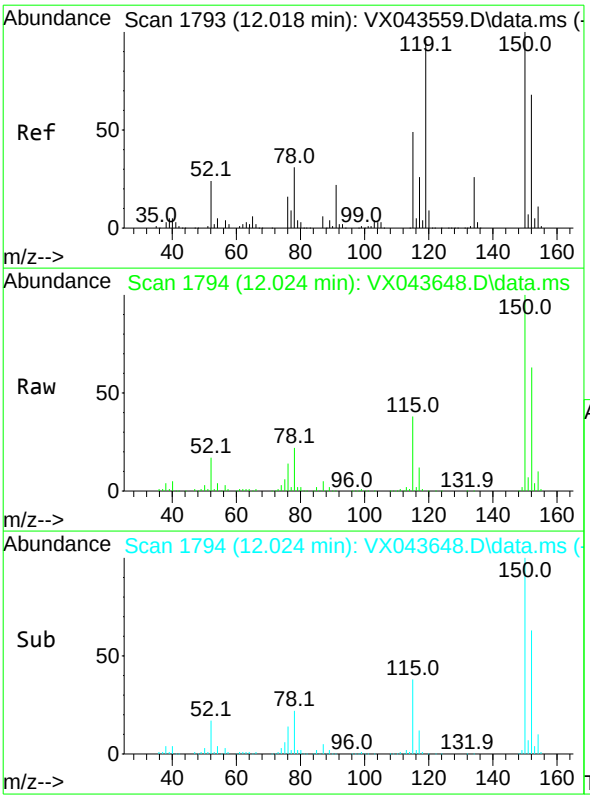


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX043648.D
Acq: 31 Oct 2024 14:03

Tgt Ion:117 Resp: 165157

Ion	Ratio	Lower	Upper
117	100		
82	53.0	42.1	63.1
119	33.0	25.4	38.2



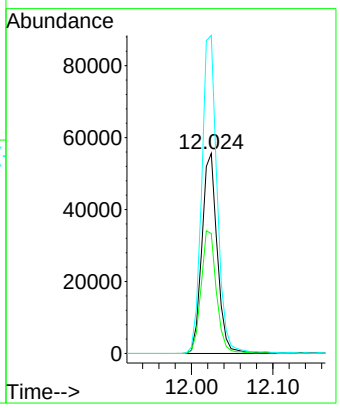


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX043648.D
Acq: 31 Oct 2024 14:03

Instrument :
MSVOA_X
ClientSampleId :
241030043-05-TRIP-BLANK

Tgt Ion:152 Resp: 72782

Ion	Ratio	Lower	Upper
152	100		
115	61.6	42.9	128.7
150	160.4	0.0	343.6



Sample Results: **VX043648.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043648.D
Acq On : 31 Oct 2024 14:03
Operator : JC/MD
Sample : P4646-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030043-05-TRIP-BLANK

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_X\Method\82X102824W.M
Title : SW846 8260

Signal : TIC: VX043648.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.240	21	25	36	rBV3	4364	10008	1.80%	0.338%
2	1.618	69	87	88	rBV8	11188	45173	8.12%	1.523%
3	5.385	694	705	720	rBV	63754	187332	33.69%	6.318%
4	5.550	720	732	749	rBV2	99240	291534	52.43%	9.832%
5	5.952	788	798	818	rBV	72511	192745	34.66%	6.500%
6	6.757	922	930	946	rBV	166610	409819	73.70%	13.821%
7	8.647	1234	1240	1260	rBV	335760	556078	100.00%	18.753%
8	10.055	1465	1471	1491	rBV	337685	484928	87.21%	16.354%
9	11.079	1634	1639	1653	rBV	259997	354781	63.80%	11.965%
10	12.018	1788	1793	1806	rBV	324254	432833	77.84%	14.597%

Sum of corrected areas: 2965231

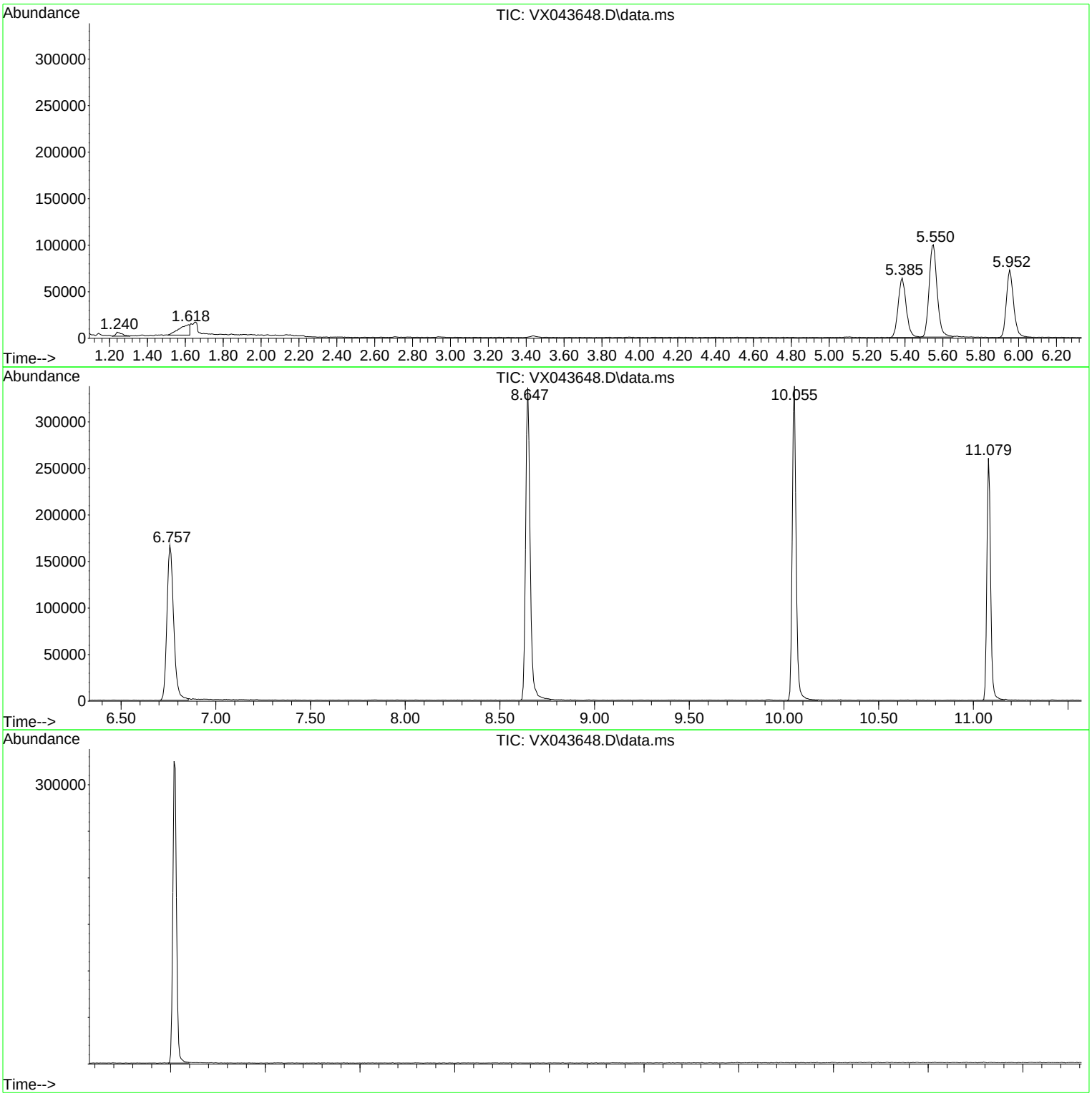
Sample Results: **VX043648.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043648.D
Acq On : 31 Oct 2024 14:03
Operator : JC/MD
Sample : P4646-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030043-05-TRIP-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VX043648.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043648.D
Acq On : 31 Oct 2024 14:03
Operator : JC/MD
Sample : P4646-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030043-05-TRIP-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.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_X\Data\VX103124\
Data File : VX043648.D
Acq On : 31 Oct 2024 14:03
Operator : JC/MD
Sample : P4646-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
241030043-05-TRIP-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

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

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

CALIBRATION SUMMARY

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4646 SAS No.: P4646 SDG No.: P4646

Instrument ID: MSVOA_X Calibration Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX043556.D RRF005 = VX043557.D RRF020 = VX043558.D
RRF050 = VX043559.D RRF100 = VX043560.D RRF150 = VX043561.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.589	0.553	0.552	0.506	0.522	0.485	0.535	7
Chloromethane	0.795	0.703	0.678	0.651	0.662	0.612	0.684	9.1
Vinyl Chloride	0.626	0.674	0.638	0.634	0.643	0.591	0.634	4.2
Bromomethane		0.267	0.246	0.262	0.260	0.258	0.259	2.9
Chloroethane	0.263	0.215	0.212	0.225	0.217	0.210	0.223	9
Trichlorofluoromethane	0.823	0.776	0.710	0.779	0.846	0.716	0.775	7.1
1,1,2-Trichlorotrifluoroethane	0.522	0.546	0.522	0.525	0.539	0.491	0.524	3.7
1,1-Dichloroethene	0.533	0.555	0.521	0.536	0.556	0.513	0.536	3.3
Acetone	0.365	0.320	0.294	0.312	0.314	0.295	0.317	8.2
Carbon Disulfide	1.067	0.974	1.007	1.134	1.310	1.227	1.120	11.6
Methyl tert-butyl Ether	1.992	2.025	2.038	2.080	2.086	1.999	2.037	1.9
Methyl Acetate	0.970	0.926	0.880	0.926	0.945	0.904	0.925	3.4
Methylene Chloride	0.772	0.699	0.663	0.663	0.665	0.633	0.682	7.2
trans-1,2-Dichloroethene	0.559	0.557	0.577	0.562	0.594	0.546	0.566	3
1,1-Dichloroethane	1.103	1.105	1.103	1.109	1.135	1.048	1.101	2.6
Cyclohexane		0.860	0.885	0.839	0.857	0.768	0.842	5.3
2-Butanone	0.427	0.462	0.457	0.483	0.484	0.459	0.462	4.5
Carbon Tetrachloride	0.462	0.442	0.423	0.444	0.465	0.429	0.444	3.8
cis-1,2-Dichloroethene	0.708	0.719	0.716	0.740	0.747	0.707	0.723	2.3
Bromochloromethane	0.512	0.529	0.531	0.507	0.545	0.516	0.524	2.7
Chloroform	1.171	1.170	1.165	1.163	1.166	1.087	1.154	2.8
1,1,1-Trichloroethane	0.939	0.949	0.978	0.986	1.020	0.939	0.969	3.3
Methylcyclohexane	0.475	0.509	0.515	0.510	0.512	0.473	0.499	3.9
Benzene	1.335	1.396	1.383	1.355	1.333	1.246	1.341	4
1,2-Dichloroethane	0.455	0.488	0.500	0.495	0.489	0.466	0.482	3.6
Trichloroethene	0.321	0.345	0.338	0.338	0.341	0.317	0.333	3.4
1,2-Dichloropropane	0.327	0.339	0.325	0.338	0.333	0.320	0.330	2.2
Bromodichloromethane	0.378	0.415	0.435	0.476	0.495	0.477	0.446	10
4-Methyl-2-Pentanone	0.416	0.497	0.507	0.525	0.518	0.491	0.492	8
Toluene	0.743	0.832	0.866	0.838	0.831	0.769	0.813	5.7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4646 SAS No.: P4646 SDG No.: P4646

Instrument ID: MSVOA_X Calibration Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX043556.D RRF005 = VX043557.D RRF020 = VX043558.D
RRF050 = VX043559.D RRF100 = VX043560.D RRF150 = VX043561.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.421	0.424	0.485	0.509	0.526	0.510	0.479	9.6
cis-1,3-Dichloropropene	0.393	0.495	0.535	0.543	0.560	0.536	0.510	12
1,1,2-Trichloroethane	0.318	0.341	0.345	0.355	0.345	0.327	0.339	4.1
2-Hexanone	0.333	0.369	0.380	0.400	0.392	0.368	0.374	6.3
Dibromochloromethane	0.259	0.289	0.332	0.367	0.387	0.377	0.335	15.4
1,2-Dibromoethane	0.314	0.351	0.361	0.367	0.369	0.346	0.351	5.8
Tetrachloroethene	0.337	0.323	0.327	0.309	0.308	0.284	0.314	5.8
Chlorobenzene	1.098	1.110	1.083	1.075	1.081	1.007	1.076	3.3
Ethyl Benzene	1.757	1.763	1.799	1.777	1.794	1.634	1.754	3.5
m/p-Xylenes	0.625	0.680	0.708	0.691	0.691	0.629	0.671	5.2
o-Xylene	0.616	0.698	0.698	0.689	0.698	0.645	0.674	5.2
Styrene	1.007	1.055	1.174	1.183	1.189	1.114	1.120	6.8
Bromoform	0.203	0.206	0.230	0.275	0.304	0.297	0.253	17.9
Isopropylbenzene	3.522	3.684	3.705	3.560	3.549	3.230	3.542	4.8
1,1,2,2-Tetrachloroethane	1.210	1.355	1.316	1.292	1.276	1.193	1.274	4.9
1,3-Dichlorobenzene	1.645	1.695	1.647	1.646	1.654	1.548	1.639	3
1,4-Dichlorobenzene	1.917	1.720	1.694	1.653	1.657	1.551	1.699	7.1
1,2-Dichlorobenzene	1.638	1.735	1.698	1.726	1.675	1.586	1.676	3.4
1,2-Dibromo-3-Chloropropane	0.229	0.220	0.256	0.281	0.291	0.281	0.260	11.5
1,2,4-Trichlorobenzene	0.865	1.008	0.999	1.080	1.099	1.052	1.017	8.3
1,2,3-Trichlorobenzene	0.976	1.057	1.077	1.101	1.146	1.080	1.073	5.3
1,2-Dichloroethane-d4		0.902	0.794	0.785	0.771	0.735	0.797	7.9
Dibromofluoromethane		0.358	0.337	0.336	0.342	0.323	0.339	3.7
Toluene-d8		1.255	1.206	1.175	1.159	1.072	1.174	5.8
4-Bromofluorobenzene		0.446	0.431	0.444	0.439	0.415	0.435	2.9

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Response Factor Report MSVOA_X

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X102824W.M
Title : SW846 8260
Last Update : Mon Oct 28 13:41:34 2024
Response Via : Initial Calibration

Calibration Files
1 =VX043556.D 5 =VX043557.D 20 =VX043558.D 50 =VX043559.D 100 =VX043560.D 150 =VX043561.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.589	0.553	0.552	0.506	0.522	0.485	0.535	7.04
3)	P	Chloromethane	0.795	0.703	0.678	0.651	0.662	0.612	0.684	9.15
4)	C	Vinyl Chloride	0.626	0.674	0.638	0.634	0.643	0.591	0.634	4.23#
5)	T	Bromomethane		0.267	0.246	0.262	0.260	0.258	0.259	2.91
6)	T	Chloroethane	0.263	0.215	0.212	0.225	0.217	0.210	0.223	8.96
7)	T	Trichlorofluor...	0.823	0.776	0.710	0.779	0.846	0.716	0.775	7.10
8)	T	Diethyl Ether	0.336	0.375	0.355	0.355	0.378	0.349	0.358	4.46
9)	T	1,1,2-Trichlor...	0.522	0.546	0.522	0.525	0.539	0.491	0.524	3.67
10)	T	Methyl Iodide		0.726	0.762	0.782	0.789	0.726	0.757	3.98
11)	T	Tert butyl alc...		0.131	0.131	0.156	0.170	0.155	0.149	11.43
12)	CM	1,1-Dichloroet...	0.533	0.555	0.521	0.536	0.556	0.513	0.536	3.27#
13)	T	Acrolein		0.124	0.121	0.109	0.117	0.111	0.116	5.54
14)	T	Allyl chloride	0.911	0.881	0.900	0.953	1.003	0.911	0.926	4.82
15)	T	Acrylonitrile	0.302	0.335	0.331	0.348	0.360	0.340	0.336	5.75
16)	T	Acetone	0.365	0.320	0.294	0.312	0.314	0.295	0.317	8.17
17)	T	Carbon Disulfide	1.067	0.974	1.007	1.134	1.310	1.227	1.120	11.61
18)	T	Methyl Acetate	0.970	0.926	0.880	0.926	0.945	0.904	0.925	3.37
19)	T	Methyl tert-bu...	1.992	2.025	2.038	2.080	2.086	1.999	2.037	1.94
20)	T	Methylene Chlo...	0.772	0.699	0.663	0.663	0.665	0.633	0.682	7.16
21)	T	trans-1,2-Dich...	0.559	0.557	0.577	0.562	0.594	0.546	0.566	3.01
22)	T	Diisopropyl ether	1.799	1.992	1.982	1.951	1.942	1.823	1.915	4.32
23)	T	Vinyl Acetate	1.326	1.547	1.607	1.688	1.706	1.618	1.582	8.73
24)	P	1,1-Dichloroet...	1.103	1.105	1.103	1.109	1.135	1.048	1.101	2.57
25)	T	2-Butanone	0.427	0.462	0.457	0.483	0.484	0.459	0.462	4.54
26)	T	2,2-Dichloropr...	0.928	0.914	0.901	0.889	0.925	0.848	0.901	3.33
27)	T	cis-1,2-Dichlo...	0.708	0.719	0.716	0.740	0.747	0.707	0.723	2.33
28)	T	Bromochloromet...	0.512	0.529	0.531	0.507	0.545	0.516	0.524	2.73
29)	T	Tetrahydrofuran	0.281	0.305	0.299	0.310	0.312	0.295	0.300	3.78
30)	C	Chloroform	1.171	1.170	1.165	1.163	1.166	1.087	1.154	2.82#
31)	T	Cyclohexane		0.860	0.885	0.839	0.857	0.768	0.842	5.26
32)	T	1,1,1-Trichlor...	0.939	0.949	0.978	0.986	1.020	0.939	0.969	3.32
33)	S	1,2-Dichloroet...		0.902	0.794	0.785	0.771	0.735	0.797	7.86
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.358	0.337	0.336	0.342	0.323	0.339	3.73
36)	T	1,1-Dichloropr...	0.451	0.396	0.408	0.388	0.400	0.369	0.402	6.88
37)	T	Ethyl Acetate	0.522	0.416	0.498	0.506	0.503	0.484	0.488	7.65
38)	T	Carbon Tetrach...	0.462	0.442	0.423	0.444	0.465	0.429	0.444	3.83
39)	T	Methylcyclohexane	0.475	0.509	0.515	0.510	0.512	0.473	0.499	3.88
40)	TM	Benzene	1.335	1.396	1.383	1.355	1.333	1.246	1.341	3.97
41)	T	Methacrylonitrile	0.260	0.221	0.260	0.271	0.270	0.256	0.256	7.12
42)	TM	1,2-Dichloroet...	0.455	0.488	0.500	0.495	0.489	0.466	0.482	3.65
43)	T	Isopropyl Acetate	0.744	0.809	0.795	0.836	0.845	0.814	0.807	4.45
44)	TM	Trichloroethene	0.321	0.345	0.338	0.338	0.341	0.317	0.333	3.45
45)	C	1,2-Dichloropr...	0.327	0.339	0.325	0.338	0.333	0.320	0.330	2.25#
46)	T	Dibromomethane	0.230	0.264	0.258	0.260	0.262	0.252	0.254	4.93
47)	T	Bromodichlorom...	0.378	0.415	0.435	0.476	0.495	0.477	0.446	10.03
48)	T	Methyl methacr...	0.319	0.367	0.391	0.402	0.412	0.404	0.383	9.07
49)	T	1,4-Dioxane	0.008	0.008	0.007	0.008	0.010	0.007	0.008	13.42
50)	S	Toluene-d8		1.255	1.206	1.175	1.159	1.072	1.174	5.76
51)	T	4-Methyl-2-Pen...	0.416	0.497	0.507	0.525	0.518	0.491	0.492	8.04
52)	CM	Toluene	0.743	0.832	0.866	0.838	0.831	0.769	0.813	5.75#
53)	T	t-1,3-Dichloro...	0.421	0.424	0.485	0.509	0.526	0.510	0.479	9.64
54)	T	cis-1,3-Dichlo...	0.393	0.495	0.535	0.543	0.560	0.536	0.510	12.02
55)	T	1,1,2-Trichlor...	0.318	0.341	0.345	0.355	0.345	0.327	0.339	4.05
56)	T	Ethyl methacry...	0.473	0.522	0.561	0.590	0.588	0.566	0.550	8.19

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X102824W.M

57)	T	1,3-Dichloropr...	0.495	0.577	0.589	0.590	0.576	0.551	0.563	6.42
58)	T	2-Chloroethyl ...	0.232	0.257	0.287	0.268	0.279	0.275	0.266	7.34
59)	T	2-Hexanone	0.333	0.369	0.380	0.400	0.392	0.368	0.374	6.33
60)	T	Dibromochlorom...	0.259	0.289	0.332	0.367	0.387	0.377	0.335	15.42
61)	T	1,2-Dibromoethane	0.314	0.351	0.361	0.367	0.369	0.346	0.351	5.81
62)	S	4-Bromofluorob...		0.446	0.431	0.444	0.439	0.415	0.435	2.92
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.337	0.323	0.327	0.309	0.308	0.284	0.314	5.83
65)	PM	Chlorobenzene	1.098	1.110	1.082	1.075	1.081	1.007	1.076	3.34
66)	T	1,1,1,2-Tetrac...	0.301	0.345	0.350	0.372	0.381	0.359	0.351	8.05
67)	C	Ethyl Benzene	1.757	1.763	1.799	1.777	1.794	1.634	1.754	3.48#
68)	T	m/p-Xylenes	0.625	0.680	0.708	0.691	0.691	0.629	0.671	5.21
69)	T	o-Xylene	0.616	0.698	0.698	0.689	0.698	0.645	0.674	5.20
70)	T	Styrene	1.007	1.055	1.174	1.183	1.189	1.114	1.120	6.75
71)	P	Bromoform	0.203	0.206	0.230	0.275	0.304	0.297	0.253	17.91
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.522	3.684	3.705	3.560	3.549	3.230	3.542	4.80
74)	T	N-amyl acetate	1.647	1.710	1.736	1.773	1.779	1.708	1.725	2.83
75)	P	1,1,2,2-Tetrac...	1.210	1.355	1.316	1.292	1.276	1.193	1.274	4.86
76)	T	1,2,3-Trichlor...	0.928	1.210	1.166	1.071	1.043	0.996	1.069	9.83
77)	T	Bromobenzene	0.922	0.945	0.926	0.925	0.922	0.847	0.915	3.74
78)	T	n-propylbenzene	3.678	3.819	4.066	3.986	3.987	3.635	3.862	4.63
79)	T	2-Chlorotoluene	2.723	2.677	2.652	2.517	2.499	2.296	2.561	6.15
80)	T	1,3,5-Trimethy...	2.761	3.105	3.117	3.038	2.984	2.714	2.953	5.91
81)	T	trans-1,4-Dich...		0.290	0.356	0.418	0.447	0.432	0.389	16.71
82)	T	4-Chlorotoluene	2.951	2.921	2.942	2.892	2.887	2.652	2.874	3.88
83)	T	tert-Butylbenzene	2.885	3.100	3.149	3.041	3.068	2.777	3.003	4.73
84)	T	1,2,4-Trimethy...	2.780	3.111	3.187	3.099	3.051	2.829	3.010	5.50
85)	T	sec-Butylbenzene	3.295	3.559	3.718	3.642	3.604	3.304	3.520	5.09
86)	T	p-Isopropyltol...	2.741	2.984	3.123	3.121	3.138	2.847	2.992	5.58
87)	T	1,3-Dichlorobe...	1.645	1.695	1.647	1.646	1.654	1.548	1.639	2.97
88)	T	1,4-Dichlorobe...	1.917	1.720	1.694	1.653	1.657	1.551	1.699	7.14
89)	T	n-Butylbenzene	2.117	2.230	2.516	2.614	2.687	2.467	2.438	9.10
90)	T	Hexachloroethane	0.408	0.421	0.476	0.519	0.560	0.533	0.486	12.77
91)	T	1,2-Dichlorobe...	1.638	1.735	1.697	1.726	1.675	1.586	1.676	3.38
92)	T	1,2-Dibromo-3-...	0.229	0.220	0.256	0.281	0.291	0.281	0.260	11.53
93)	T	1,2,4-Trichlor...	0.865	1.008	0.999	1.080	1.099	1.052	1.017	8.27
94)	T	Hexachlorobuta...	0.392	0.367	0.378	0.373	0.391	0.351	0.375	4.13
95)	T	Naphthalene	3.249	3.742	4.006	4.126	4.229	4.007	3.893	9.12
96)	T	1,2,3-Trichlor...	0.976	1.057	1.077	1.101	1.146	1.080	1.073	5.25

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043556.D
Acq On : 28 Oct 2024 10:59
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:30:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.550	168	161665	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	295688	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	253619	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	113521	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l		
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l		
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#			
50) Toluene-d8	0.000	98	0d	0.000	ug/l		
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	1906	1.058	ug/l		96
3) Chloromethane	1.294	50	2572	1.119	ug/l		94
4) Vinyl Chloride	1.374	62	2023	0.966	ug/l	#	85
6) Chloroethane	1.666	64	850	1.240	ug/l		90
7) Trichlorofluoromethane	1.861	101	2660	0.968	ug/l		95
8) Diethyl Ether	2.136	74	1086	0.905	ug/l		62
9) 1,1,2-Trichlorotrifluo...	2.313	101	1687	0.972	ug/l		97
12) 1,1-Dichloroethene	2.300	96	1723	1.010	ug/l	#	80
14) Allyl chloride	2.654	41	2945	0.973	ug/l		98
15) Acrylonitrile	3.081	53	4889	4.029	ug/l		96
16) Acetone	2.392	43	5896	5.386	ug/l		98
17) Carbon Disulfide	2.495	76	3450	0.977	ug/l		95
18) Methyl Acetate	2.709	43	3137	0.954	ug/l		98
19) Methyl tert-butyl Ether	3.111	73	6442	0.971	ug/l		99
20) Methylene Chloride	2.788	84	2497	1.167	ug/l		84
21) trans-1,2-Dichloroethene	3.087	96	1808	0.979	ug/l		88
22) Diisopropyl ether	3.776	45	5818	0.931	ug/l		97
23) Vinyl Acetate	3.727	43	21436	4.154	ug/l		98
24) 1,1-Dichloroethane	3.599	63	3565	1.012	ug/l	#	91
25) 2-Butanone	4.593	43	6900	4.150	ug/l		100
26) 2,2-Dichloropropane	4.465	77	3002	1.182	ug/l		94
27) cis-1,2-Dichloroethene	4.489	96	2288	0.994	ug/l		95
28) Bromochloromethane	4.897	49	1656	0.950	ug/l	#	68
29) Tetrahydrofuran	5.032	42	4543	4.185	ug/l	#	84
30) Chloroform	5.093	83	3785	1.005	ug/l	#	81
32) 1,1,1-Trichloroethane	5.373	97	3037	0.959	ug/l	#	48
36) 1,1-Dichloropropene	5.702	75	2670	1.146	ug/l		91
37) Ethyl Acetate	4.757	43	3086m	0.970	ug/l		
38) Carbon Tetrachloride	5.660	117	2731	1.031	ug/l		98
39) Methylcyclohexane	7.379	83	2811	0.941	ug/l	#	87
40) Benzene	6.050	78	7896	1.014	ug/l		97
41) Methacrylonitrile	4.995	41	1539m	0.962	ug/l		
42) 1,2-Dichloroethane	6.098	62	2692	0.939	ug/l		95
43) Isopropyl Acetate	6.367	43	4398	0.874	ug/l		96
44) Trichloroethene	7.135	130	1898	1.028	ug/l		70
45) 1,2-Dichloropropane	7.428	63	1935	1.017	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043556.D
Acq On : 28 Oct 2024 10:59
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:30:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	7.592	93	1360	0.931	ug/l		88
47) Bromodichloromethane	7.824	83	2234	0.862	ug/l	#	95
48) Methyl methacrylate	7.708	41	1889	0.804	ug/l	#	84
49) 1,4-Dioxane	7.696	88	959	15.892	ug/l	#	91
51) 4-Methyl-2-Pentanone	8.580	43	12287	3.855	ug/l		97
52) Toluene	8.720	92	4396	0.915	ug/l		96
53) t-1,3-Dichloropropene	8.988	75	2487	0.948	ug/l		90
54) cis-1,3-Dichloropropene	8.366	75	2324	0.807	ug/l	#	87
55) 1,1,2-Trichloroethane	9.159	97	1879	0.927	ug/l	#	85
56) Ethyl methacrylate	9.128	69	2799	0.855	ug/l		92
57) 1,3-Dichloropropane	9.311	76	2929	0.875	ug/l		95
58) 2-Chloroethyl Vinyl ether	8.251	63	6868	4.263	ug/l		93
59) 2-Hexanone	9.445	43	9840	4.082	ug/l		93
60) Dibromochloromethane	9.519	129	1531	0.807	ug/l		92
61) 1,2-Dibromoethane	9.616	107	1856	0.908	ug/l		98
64) Tetrachloroethene	9.275	164	1707	1.075	ug/l	#	82
65) Chlorobenzene	10.079	112	5570	1.056	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.165	131	1525	0.856	ug/l	#	60
67) Ethyl Benzene	10.195	91	8911	1.015	ug/l		95
68) m/p-Xylenes	10.305	106	6344	1.908	ug/l		96
69) o-Xylene	10.640	106	3125	0.914	ug/l		91
70) Styrene	10.659	104	5108	0.923	ug/l		95
71) Bromoform	10.805	173	1032	0.859	ug/l	#	94
73) Isopropylbenzene	10.963	105	7996	0.985	ug/l		100
74) N-amyl acetate	10.848	43	3739	0.915	ug/l	#	89
75) 1,1,2,2-Tetrachloroethane	11.213	83	2747	0.884	ug/l		99
76) 1,2,3-Trichloropropane	11.244	75	2108m	0.799	ug/l		
77) Bromobenzene	11.201	156	2093	1.010	ug/l		98
78) n-propylbenzene	11.305	91	8350	0.966	ug/l		98
79) 2-Chlorotoluene	11.366	91	6183	1.066	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	6268	0.930	ug/l		98
82) 4-Chlorotoluene	11.457	91	6699	1.043	ug/l		95
83) tert-Butylbenzene	11.713	119	6551	0.953	ug/l		94
84) 1,2,4-Trimethylbenzene	11.756	105	6312	0.916	ug/l		95
85) sec-Butylbenzene	11.890	105	7481	0.940	ug/l		99
86) p-Isopropyltoluene	12.012	119	6224	0.944	ug/l		95
87) 1,3-Dichlorobenzene	11.969	146	3734	1.005	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	4352m	1.162	ug/l		
89) n-Butylbenzene	12.335	91	4807	0.899	ug/l		93
90) Hexachloroethane	12.530	117	926	0.868	ug/l		82
91) 1,2-Dichlorobenzene	12.335	146	3719	0.970	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	519	0.785	ug/l		89
93) 1,2,4-Trichlorobenzene	13.591	180	1965	0.876	ug/l		96
94) Hexachlorobutadiene	13.725	225	889	1.119	ug/l		86
95) Naphthalene	13.780	128	7377	0.801	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	2215	0.943	ug/l		96

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

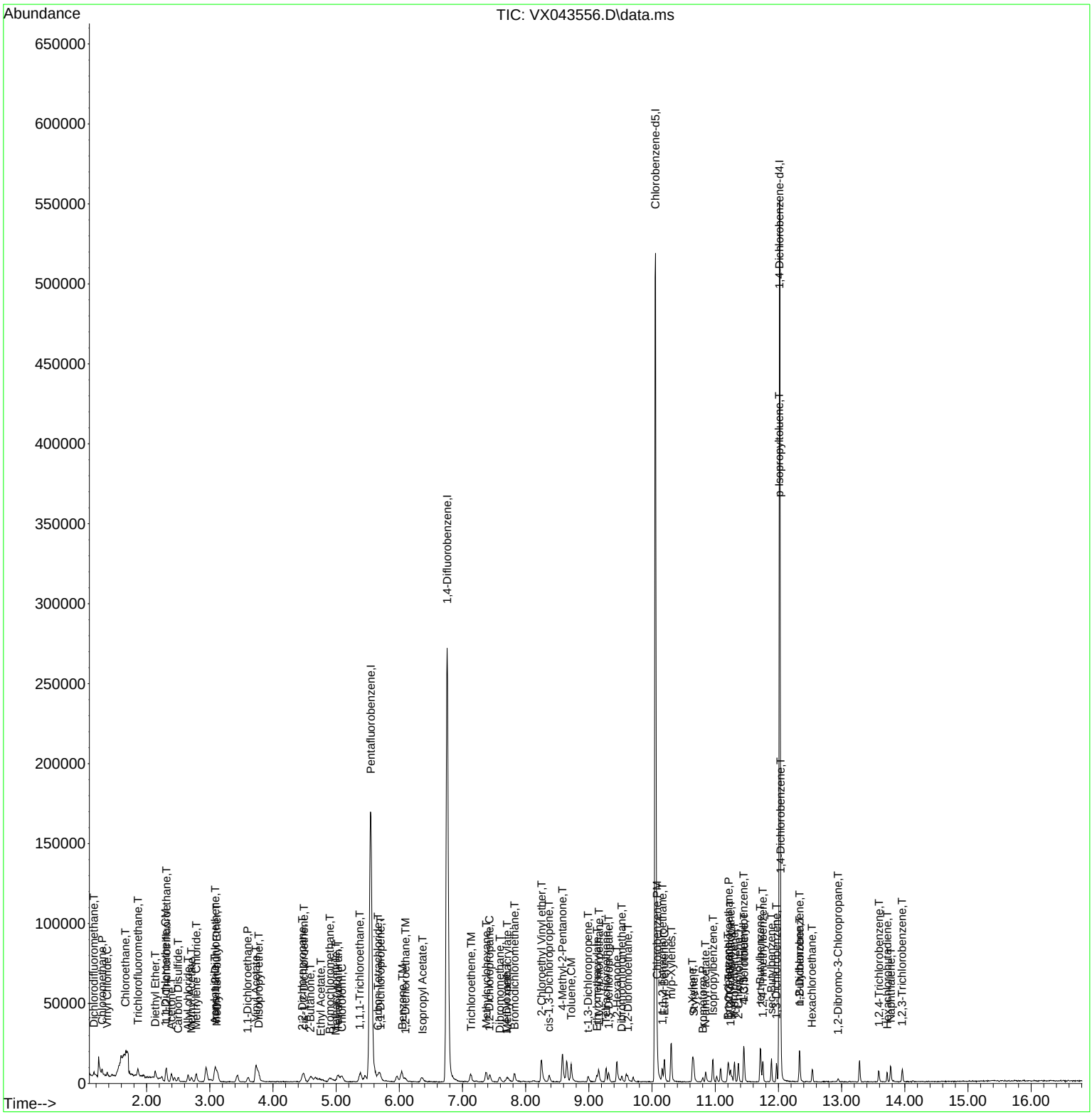
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043556.D
Acq On : 28 Oct 2024 10:59
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 13:30:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043557.D
Acq On : 28 Oct 2024 11:22
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:30:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.544	168	155093	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	287211	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	250063	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	111781	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.958	65	13988	5.686	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.380%#			
35) Dibromofluoromethane	5.385	113	10276	5.373	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.740%#			
50) Toluene-d8	8.647	98	36059	5.438	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.880%#			
62) 4-Bromofluorobenzene	11.079	95	12799	5.284	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	10.560%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.167	85	8579	4.962	ug/l		96
3) Chloromethane	1.295	50	10900	4.942	ug/l		95
4) Vinyl Chloride	1.374	62	10451	5.202	ug/l		99
5) Bromomethane	1.599	94	4136	5.271	ug/l		92
6) Chloroethane	1.660	64	3330	5.066	ug/l	#	82
7) Trichlorofluoromethane	1.861	101	12037	4.565	ug/l		96
8) Diethyl Ether	2.136	74	5822	5.055	ug/l		91
9) 1,1,2-Trichlorotrifluo...	2.313	101	8472	5.091	ug/l		98
10) Methyl Iodide	2.441	142	11260	4.886	ug/l		100
11) Tert butyl alcohol	3.038	59	10188	19.389	ug/l	#	100
12) 1,1-Dichloroethene	2.300	96	8606	5.260	ug/l		91
13) Acrolein	2.239	56	9609	23.207	ug/l		99
14) Allyl chloride	2.654	41	13656	4.703	ug/l		96
15) Acrylonitrile	3.075	53	25966	22.307	ug/l		99
16) Acetone	2.392	43	24830	23.644	ug/l		99
17) Carbon Disulfide	2.496	76	15112	4.462	ug/l	#	95
18) Methyl Acetate	2.709	43	14366	4.552	ug/l		98
19) Methyl tert-butyl Ether	3.117	73	31411	4.934	ug/l		99
20) Methylene Chloride	2.782	84	10845	5.284	ug/l		98
21) trans-1,2-Dichloroethene	3.087	96	8639	4.877	ug/l		95
22) Diisopropyl ether	3.764	45	30888	5.154	ug/l	#	86
23) Vinyl Acetate	3.721	43	119942	24.227	ug/l		98
24) 1,1-Dichloroethane	3.605	63	17144	5.072	ug/l		98
25) 2-Butanone	4.581	43	35818	22.456	ug/l		98
26) 2,2-Dichloropropane	4.471	77	14180	5.820	ug/l		96
27) cis-1,2-Dichloroethene	4.483	96	11158	5.055	ug/l		98
28) Bromochloromethane	4.904	49	8209	4.909	ug/l		97
29) Tetrahydrofuran	5.026	42	23624	22.684	ug/l		97
30) Chloroform	5.093	83	18141	5.019	ug/l		95
31) Cyclohexane	5.458	56	13335	4.972	ug/l		88
32) 1,1,1-Trichloroethane	5.379	97	14721	4.846	ug/l		98
36) 1,1-Dichloropropene	5.690	75	11382	5.029	ug/l		98
37) Ethyl Acetate	4.733	43	11948	3.868	ug/l	#	94
38) Carbon Tetrachloride	5.672	117	12706	4.940	ug/l		99
39) Methylcyclohexane	7.379	83	14623	5.038	ug/l		94
40) Benzene	6.038	78	40098	5.300	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043557.D
Acq On : 28 Oct 2024 11:22
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 13:30:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	6345	4.083	ug/l	#	81
42) 1,2-Dichloroethane	6.092	62	14018	5.037	ug/l		99
43) Isopropyl Acetate	6.355	43	23242	4.756	ug/l		99
44) Trichloroethene	7.123	130	9917	5.528	ug/l		93
45) 1,2-Dichloropropane	7.434	63	9734	5.268	ug/l		91
46) Dibromomethane	7.586	93	7576	5.337	ug/l		96
47) Bromodichloromethane	7.818	83	11922	4.735	ug/l		99
48) Methyl methacrylate	7.702	41	10543	4.621	ug/l		95
49) 1,4-Dioxane	7.690	88	4322	73.737	ug/l		88
51) 4-Methyl-2-Pentanone	8.580	43	71301	23.028	ug/l		98
52) Toluene	8.720	92	23888	5.121	ug/l		99
53) t-1,3-Dichloropropene	8.982	75	12164	4.773	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	14227	5.084	ug/l		93
55) 1,1,2-Trichloroethane	9.153	97	9807	4.982	ug/l		97
56) Ethyl methacrylate	9.122	69	14989	4.712	ug/l		99
57) 1,3-Dichloropropane	9.311	76	16567	5.097	ug/l		97
58) 2-Chloroethyl Vinyl ether	8.245	63	36952	23.613	ug/l		98
59) 2-Hexanone	9.439	43	52944	22.614	ug/l		99
60) Dibromochloromethane	9.519	129	8314	4.514	ug/l		96
61) 1,2-Dibromoethane	9.610	107	10094	5.087	ug/l		98
64) Tetrachloroethene	9.275	164	8068	5.154	ug/l		91
65) Chlorobenzene	10.080	112	27763	5.337	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	8622	4.907	ug/l		96
67) Ethyl Benzene	10.195	91	44094	5.095	ug/l		98
68) m/p-Xylenes	10.299	106	33988	10.367	ug/l		96
69) o-Xylene	10.640	106	17462	5.181	ug/l		98
70) Styrene	10.659	104	26381	4.836	ug/l		96
71) Bromoform	10.799	173	5147	4.345	ug/l	#	98
73) Isopropylbenzene	10.964	105	41185	5.155	ug/l		99
74) N-amyl acetate	10.848	43	19116	4.750	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	15141	4.947	ug/l		95
76) 1,2,3-Trichloropropane	11.238	75	13527m	5.206	ug/l		
77) Bromobenzene	11.201	156	10564	5.179	ug/l		97
78) n-propylbenzene	11.305	91	42687	5.013	ug/l		99
79) 2-Chlorotoluene	11.366	91	29923	5.237	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	34706	5.232	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	3243	3.808	ug/l	#	82
82) 4-Chlorotoluene	11.457	91	32648	5.163	ug/l		98
83) tert-Butylbenzene	11.713	119	34653	5.122	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	34775	5.125	ug/l		98
85) sec-Butylbenzene	11.890	105	39786	5.078	ug/l		99
86) p-Isopropyltoluene	12.006	119	33359	5.139	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	18951	5.178	ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	19222	5.210	ug/l		93
89) n-Butylbenzene	12.329	91	24922	4.736	ug/l		98
90) Hexachloroethane	12.536	117	4704	4.480	ug/l		91
91) 1,2-Dichlorobenzene	12.335	146	19394	5.139	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	2456	3.771	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	11267	5.098	ug/l		98
94) Hexachlorobutadiene	13.725	225	4097	5.239	ug/l		96
95) Naphthalene	13.774	128	41834	4.613	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	11815	5.110	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043557.D
Acq On : 28 Oct 2024 11:22
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:30:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

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

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

ICAL Form

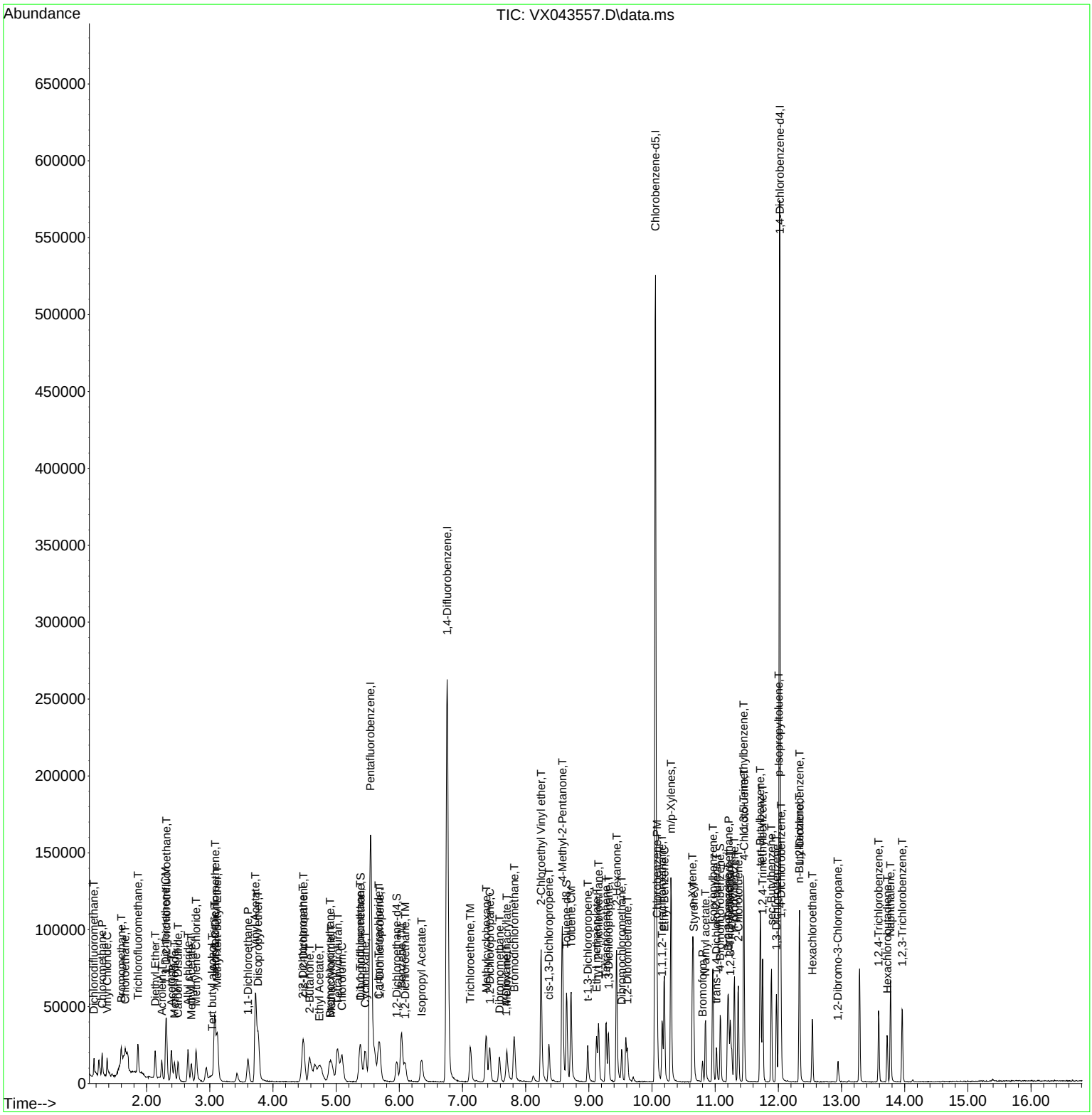
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043557.D
Acq On : 28 Oct 2024 11:22
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 13:30:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043558.D
Acq On : 28 Oct 2024 11:45
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	159966	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	291315	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	254622	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	119710	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	50818	20.026	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	40.060%#		
35) Dibromofluoromethane	5.385	113	39238	20.228	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	40.460%#		
50) Toluene-d8	8.647	98	140572	20.900	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	41.800%#		
62) 4-Bromofluorobenzene	11.079	95	50243	20.452	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	40.900%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	35334	19.816	ug/l	97
3) Chloromethane	1.294	50	43361	19.061	ug/l	99
4) Vinyl Chloride	1.374	62	40804	19.692	ug/l	99
5) Bromomethane	1.599	94	15764	19.478	ug/l	94
6) Chloroethane	1.666	64	13552	19.988	ug/l	100
7) Trichlorofluoromethane	1.861	101	45410	16.698	ug/l	99
8) Diethyl Ether	2.136	74	22721	19.128	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	33400	19.458	ug/l	98
10) Methyl Iodide	2.441	142	48753	20.510	ug/l	97
11) Tert butyl alcohol	3.050	59	42004m	77.502	ug/l	
12) 1,1-Dichloroethene	2.300	96	33343	19.757	ug/l	98
13) Acrolein	2.239	56	38776	90.794	ug/l	99
14) Allyl chloride	2.654	41	57560	19.220	ug/l	99
15) Acrylonitrile	3.075	53	105959	88.256	ug/l	98
16) Acetone	2.398	43	93987	86.771	ug/l	99
17) Carbon Disulfide	2.495	76	64452	18.450	ug/l	100
18) Methyl Acetate	2.709	43	56319	17.301	ug/l	98
19) Methyl tert-butyl Ether	3.123	73	130430	19.863	ug/l	96
20) Methylene Chloride	2.782	84	42392	20.027	ug/l	94
21) trans-1,2-Dichloroethene	3.081	96	36925	20.210	ug/l	97
22) Diisopropyl ether	3.770	45	126839	20.521	ug/l	93
23) Vinyl Acetate	3.721	43	514244	100.709	ug/l	99
24) 1,1-Dichloroethane	3.605	63	70569	20.241	ug/l	98
25) 2-Butanone	4.574	43	146114	88.817	ug/l	98
26) 2,2-Dichloropropane	4.465	77	57622	22.931	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	45798	20.118	ug/l	99
28) Bromochloromethane	4.897	49	33980	19.701	ug/l	100
29) Tetrahydrofuran	5.013	42	95553	88.955	ug/l	100
30) Chloroform	5.086	83	74554	19.996	ug/l	95
31) Cyclohexane	5.464	56	56622	20.469	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	62556	19.966	ug/l	98
36) 1,1-Dichloropropene	5.684	75	47520	20.699	ug/l	99
37) Ethyl Acetate	4.727	43	58054	18.528	ug/l	100
38) Carbon Tetrachloride	5.666	117	49282	18.891	ug/l	96
39) Methylcyclohexane	7.373	83	59999	20.379	ug/l	98
40) Benzene	6.031	78	161123	20.995	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043558.D
Acq On : 28 Oct 2024 11:45
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 13:31:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	30325	19.241	ug/l		95
42) 1,2-Dichloroethane	6.086	62	58281	20.645	ug/l		99
43) Isopropyl Acetate	6.348	43	92676	18.698	ug/l		98
44) Trichloroethene	7.123	130	39344	21.623	ug/l		94
45) 1,2-Dichloropropane	7.427	63	37857	20.200	ug/l		93
46) Dibromomethane	7.580	93	30097	20.905	ug/l		99
47) Bromodichloromethane	7.824	83	50694	19.849	ug/l		100
48) Methyl methacrylate	7.696	41	45592	19.703	ug/l		99
49) 1,4-Dioxane	7.683	88	15361	258.381	ug/l	#	75
51) 4-Methyl-2-Pentanone	8.580	43	295125	93.974	ug/l		100
52) Toluene	8.720	92	100958	21.337	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	56483	21.853	ug/l		96
54) cis-1,3-Dichloropropene	8.366	75	62338	21.962	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	40197	20.132	ug/l		99
56) Ethyl methacrylate	9.116	69	65359	20.255	ug/l		97
57) 1,3-Dichloropropane	9.305	76	68675	20.831	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	167179	105.324	ug/l		98
59) 2-Hexanone	9.433	43	221604	93.320	ug/l		100
60) Dibromochloromethane	9.519	129	38713	20.721	ug/l		99
61) 1,2-Dibromoethane	9.610	107	42059	20.896	ug/l		97
64) Tetrachloroethene	9.269	164	33267	20.871	ug/l		90
65) Chlorobenzene	10.079	112	110251	20.814	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.165	131	35663	19.934	ug/l		98
67) Ethyl Benzene	10.189	91	183192	20.790	ug/l		98
68) m/p-Xylenes	10.299	106	144291	43.222	ug/l		96
69) o-Xylene	10.640	106	71049	20.704	ug/l		98
70) Styrene	10.652	104	119564	21.527	ug/l		100
71) Bromoform	10.799	173	23453	19.445	ug/l	#	98
73) Isopropylbenzene	10.963	105	177401	20.733	ug/l		99
74) N-amyl acetate	10.841	43	83132	19.288	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	63016	19.225	ug/l		97
76) 1,2,3-Trichloropropane	11.238	75	55850m	20.069	ug/l		
77) Bromobenzene	11.195	156	44364	20.310	ug/l		98
78) n-propylbenzene	11.305	91	194707	21.351	ug/l		100
79) 2-Chlorotoluene	11.366	91	126983	20.753	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	149254	21.008	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	17057	18.703	ug/l		96
82) 4-Chlorotoluene	11.451	91	140875	20.804	ug/l		98
83) tert-Butylbenzene	11.713	119	150766	20.809	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	152608	21.002	ug/l		99
85) sec-Butylbenzene	11.890	105	178042	21.218	ug/l		98
86) p-Isopropyltoluene	12.006	119	149537	21.511	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	78867	20.122	ug/l		100
88) 1,4-Dichlorobenzene	12.042	146	81095	20.525	ug/l		99
89) n-Butylbenzene	12.329	91	120461	21.375	ug/l		99
90) Hexachloroethane	12.536	117	22769	20.246	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	81283	20.112	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	12277	17.603	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	47851	20.219	ug/l		99
94) Hexachlorobutadiene	13.725	225	18082	21.589	ug/l		97
95) Naphthalene	13.774	128	191837	19.754	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	51568	20.826	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043558.D
Acq On : 28 Oct 2024 11:45
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

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

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

ICAL Form

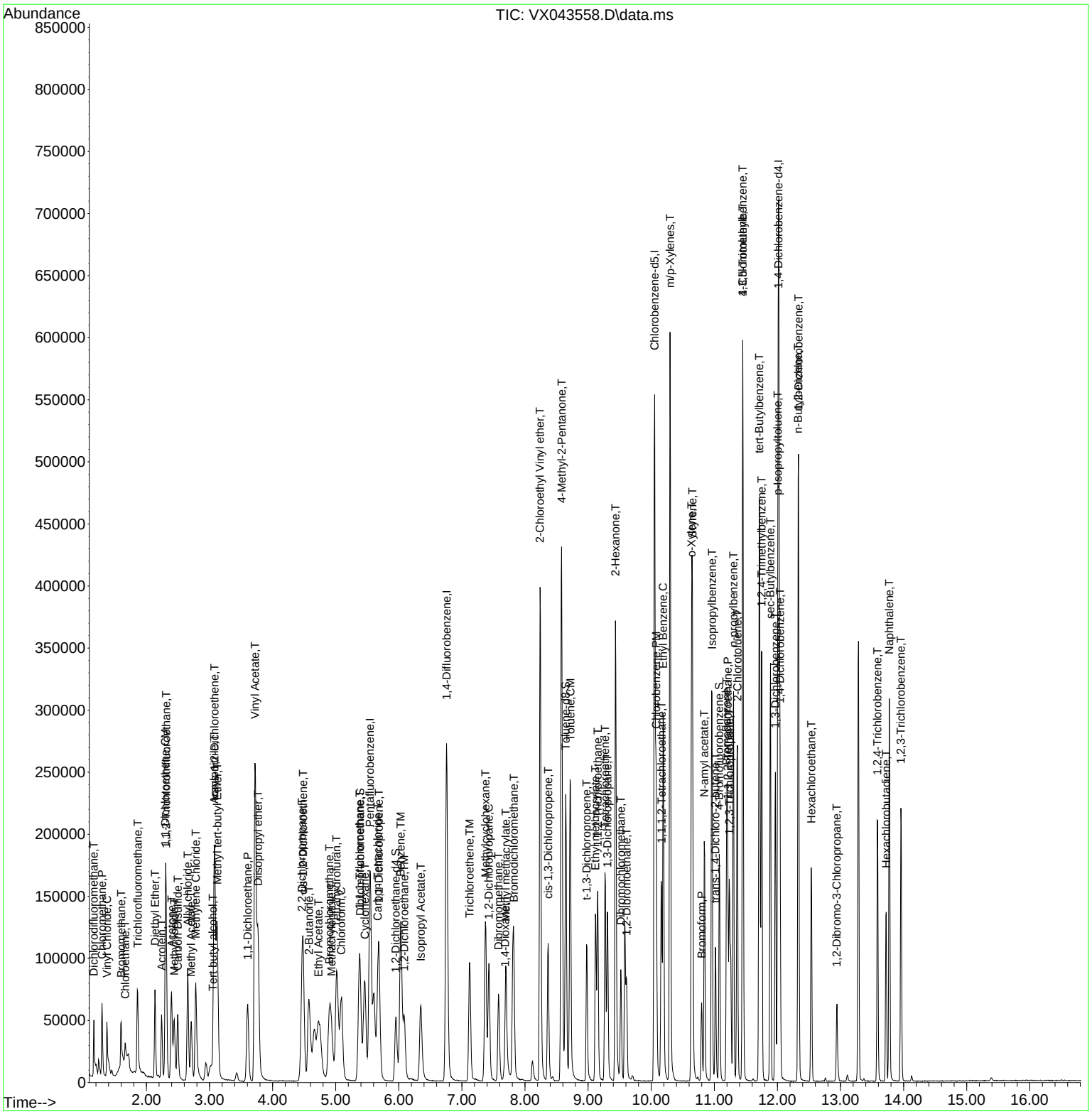
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043558.D
Acq On : 28 Oct 2024 11:45
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 13:31:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043559.D
Acq On : 28 Oct 2024 12:08
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	148919	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	270771	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	238342	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	114709	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	116854	49.466	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.940%			
35) Dibromofluoromethane	5.379	113	91079	50.516	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.040%			
50) Toluene-d8	8.647	98	318252	50.907	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.820%			
62) 4-Bromofluorobenzene	11.079	95	120225	52.651	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	75417	45.433	ug/l	96
3) Chloromethane	1.294	50	96896	45.755	ug/l	99
4) Vinyl Chloride	1.374	62	94488	48.982	ug/l	99
5) Bromomethane	1.593	94	38969	51.722	ug/l	98
6) Chloroethane	1.666	64	33540	53.137	ug/l	99
7) Trichlorofluoromethane	1.867	101	116013	45.825	ug/l	98
8) Diethyl Ether	2.136	74	52937	47.871	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.312	101	78193	48.932	ug/l	99
10) Methyl Iodide	2.440	142	116521	52.655	ug/l	99
11) Tert butyl alcohol	3.014	59	116081m	230.069	ug/l	
12) 1,1-Dichloroethene	2.306	96	79758	50.765	ug/l	93
13) Acrolein	2.239	56	80960	203.631	ug/l	98
14) Allyl chloride	2.654	41	141976	50.925	ug/l	98
15) Acrylonitrile	3.068	53	259325	232.022	ug/l	100
16) Acetone	2.392	43	232587	230.659	ug/l	100
17) Carbon Disulfide	2.501	76	168807	51.908	ug/l	100
18) Methyl Acetate	2.709	43	137905	45.505	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	309762	50.673	ug/l	98
20) Methylene Chloride	2.782	84	98700	50.086	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	83735	49.229	ug/l	98
22) Diisopropyl ether	3.763	45	290506	50.487	ug/l	97
23) Vinyl Acetate	3.721	43	1256555	264.336	ug/l	99
24) 1,1-Dichloroethane	3.605	63	165218	50.903	ug/l	98
25) 2-Butanone	4.568	43	359526	234.753	ug/l	100
26) 2,2-Dichloropropane	4.465	77	132434	56.613	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	110158	51.979	ug/l	99
28) Bromochloromethane	4.897	49	75534	47.042	ug/l	98
29) Tetrahydrofuran	5.013	42	230616	230.617	ug/l	100
30) Chloroform	5.086	83	173217	49.905	ug/l	97
31) Cyclohexane	5.464	56	124896	48.500	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	146876	50.355	ug/l	98
36) 1,1-Dichloropropene	5.690	75	105059	49.233	ug/l	98
37) Ethyl Acetate	4.714	43	136901	47.008	ug/l	99
38) Carbon Tetrachloride	5.672	117	120318	49.620	ug/l	98
39) Methylcyclohexane	7.379	83	138062	50.451	ug/l	95
40) Benzene	6.031	78	366906	51.436	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043559.D
Acq On : 28 Oct 2024 12:08
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	73294	50.034	ug/l		96
42) 1,2-Dichloroethane	6.086	62	133953	51.050	ug/l		99
43) Isopropyl Acetate	6.342	43	226323	49.127	ug/l		99
44) Trichloroethene	7.123	130	91422	54.057	ug/l		91
45) 1,2-Dichloropropane	7.427	63	91389	52.464	ug/l		99
46) Dibromomethane	7.580	93	70386	52.600	ug/l		98
47) Bromodichloromethane	7.818	83	129022	54.350	ug/l		95
48) Methyl methacrylate	7.696	41	108981	50.670	ug/l		99
49) 1,4-Dioxane	7.671	88	44516	805.596	ug/l		94
51) 4-Methyl-2-Pentanone	8.574	43	710786	243.501	ug/l		99
52) Toluene	8.714	92	227004	51.617	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	137951	57.422	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	147056	55.739	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	96225	51.848	ug/l		99
56) Ethyl methacrylate	9.116	69	159817	53.285	ug/l		98
57) 1,3-Dichloropropane	9.305	76	159890	52.178	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	362792	245.903	ug/l		98
59) 2-Hexanone	9.433	43	541763	245.453	ug/l		99
60) Dibromochloromethane	9.518	129	99435	57.260	ug/l		99
61) 1,2-Dibromoethane	9.610	107	99405	53.133	ug/l		98
64) Tetrachloroethene	9.275	164	73551	49.296	ug/l		94
65) Chlorobenzene	10.079	112	256218	51.676	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	88746	52.993	ug/l		99
67) Ethyl Benzene	10.195	91	423515	51.347	ug/l		98
68) m/p-Xylenes	10.299	106	329261	105.366	ug/l		98
69) o-Xylene	10.640	106	164266	51.137	ug/l		99
70) Styrene	10.652	104	281883	54.218	ug/l		99
71) Bromoform	10.799	173	65582	58.090	ug/l	#	99
73) Isopropylbenzene	10.963	105	408411	49.811	ug/l		100
74) N-amyl acetate	10.841	43	203333	49.234	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	148153	47.168	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	122864m	46.074	ug/l		
77) Bromobenzene	11.195	156	106088	50.684	ug/l		100
78) n-propylbenzene	11.305	91	457180	52.320	ug/l		99
79) 2-Chlorotoluene	11.366	91	288711	49.242	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	348498	51.192	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	47974	54.897	ug/l		95
82) 4-Chlorotoluene	11.451	91	331765	51.131	ug/l		97
83) tert-Butylbenzene	11.713	119	348856	50.250	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	355522	51.061	ug/l		100
85) sec-Butylbenzene	11.890	105	417787	51.960	ug/l		100
86) p-Isopropyltoluene	12.006	119	358049	53.750	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	188818	50.274	ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	189658	50.095	ug/l		100
89) n-Butylbenzene	12.329	91	299842	55.523	ug/l		100
90) Hexachloroethane	12.536	117	59554	55.265	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	198010	51.130	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	32185	48.159	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	123940	54.653	ug/l		99
94) Hexachlorobutadiene	13.725	225	42766	53.286	ug/l		97
95) Naphthalene	13.774	128	473262	50.857	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	126296	53.229	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043559.D
Acq On : 28 Oct 2024 12:08
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

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

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

ICAL Form

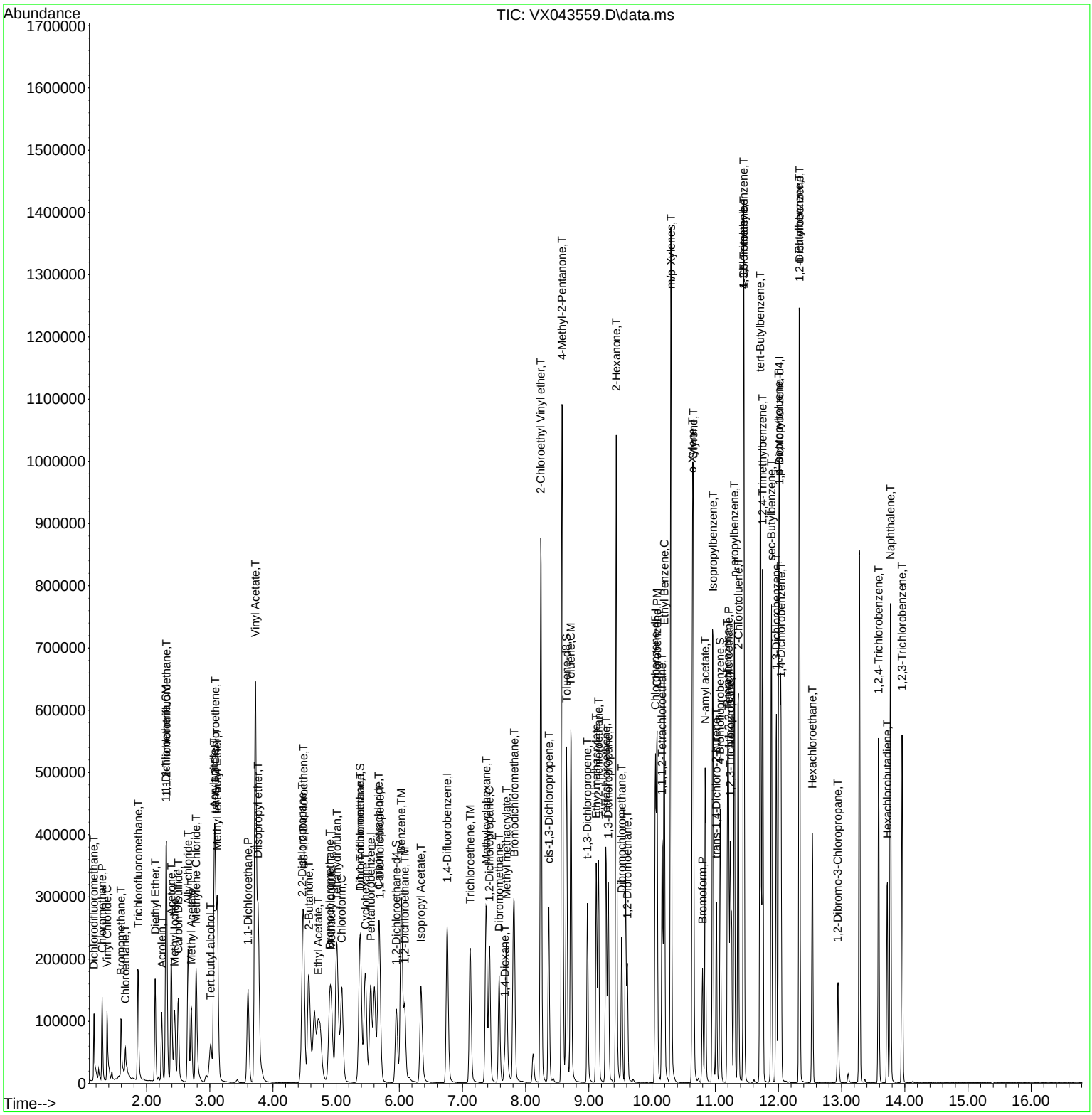
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043559.D
Acq On : 28 Oct 2024 12:08
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 13:31:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043560.D
Acq On : 28 Oct 2024 12:31
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	144332	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	265513	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	230783	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	112136	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	222471	97.169	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 194.340%#			
35) Dibromofluoromethane	5.379	113	181437	102.625	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 205.240%#			
50) Toluene-d8	8.647	98	615421	100.391	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 200.780%#			
62) 4-Bromofluorobenzene	11.079	95	233193	104.146	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 208.300%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	150686	93.662	ug/l	95
3) Chloromethane	1.294	50	191165	93.138	ug/l	99
4) Vinyl Chloride	1.374	62	185746	99.351	ug/l	99
5) Bromomethane	1.593	94	75100	102.844	ug/l	99
6) Chloroethane	1.660	64	62560	102.264	ug/l	97
7) Trichlorofluoromethane	1.861	101	244340	99.580	ug/l	99
8) Diethyl Ether	2.136	74	109025	101.725	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.312	101	155594	100.462	ug/l	98
10) Methyl Iodide	2.440	142	227894	106.257	ug/l	99
11) Tert butyl alcohol	3.038	59	245468	501.973	ug/l #	100
12) 1,1-Dichloroethene	2.306	96	160565	105.446	ug/l	96
13) Acrolein	2.239	56	168697	437.793	ug/l	99
14) Allyl chloride	2.654	41	289621	107.186	ug/l	97
15) Acrylonitrile	3.068	53	518888	479.012	ug/l	100
16) Acetone	2.392	43	452601	463.114	ug/l	100
17) Carbon Disulfide	2.495	76	378228	120.001	ug/l	100
18) Methyl Acetate	2.709	43	272708	92.847	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	602114	101.628	ug/l	99
20) Methylene Chloride	2.782	84	191848	100.449	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	171404	103.973	ug/l	97
22) Diisopropyl ether	3.763	45	560616	100.525	ug/l	94
23) Vinyl Acetate	3.721	43	2462441	534.476	ug/l	98
24) 1,1-Dichloroethane	3.605	63	327525	104.117	ug/l	99
25) 2-Butanone	4.562	43	698547	470.613	ug/l	98
26) 2,2-Dichloropropane	4.471	77	267036	117.781	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	215682	105.006	ug/l	99
28) Bromochloromethane	4.897	49	157450	101.175	ug/l	99
29) Tetrahydrofuran	5.013	42	449999	464.302	ug/l	99
30) Chloroform	5.092	83	336574	100.052	ug/l	98
31) Cyclohexane	5.458	56	247431	99.138	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	294454	104.159	ug/l	99
36) 1,1-Dichloropropene	5.684	75	212326	101.472	ug/l	98
37) Ethyl Acetate	4.714	43	266903	93.461	ug/l	99
38) Carbon Tetrachloride	5.672	117	246999	103.882	ug/l	100
39) Methylcyclohexane	7.373	83	272092	101.398	ug/l	98
40) Benzene	6.031	78	707594	101.161	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043560.D
Acq On : 28 Oct 2024 12:31
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 13:31:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	143117	99.633	ug/l		96
42) 1,2-Dichloroethane	6.086	62	259548	100.874	ug/l		100
43) Isopropyl Acetate	6.342	43	448588	99.301	ug/l		99
44) Trichloroethene	7.123	130	180958	109.118	ug/l		96
45) 1,2-Dichloropropane	7.427	63	176748	103.475	ug/l		99
46) Dibromomethane	7.580	93	138874	105.836	ug/l		99
47) Bromodichloromethane	7.818	83	262652	112.832	ug/l		97
48) Methyl methacrylate	7.696	41	218800	103.744	ug/l		99
49) 1,4-Dioxane	7.677	88	102152	1885.231	ug/l		99
51) 4-Methyl-2-Pentanone	8.580	43	1374233	480.107	ug/l		99
52) Toluene	8.714	92	441311	102.334	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	279431	118.617	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	297464	114.982	ug/l		97
55) 1,1,2-Trichloroethane	9.153	97	183182	100.657	ug/l		99
56) Ethyl methacrylate	9.116	69	312479	106.248	ug/l		96
57) 1,3-Dichloropropane	9.305	76	305650	101.720	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	741765	512.729	ug/l		98
59) 2-Hexanone	9.433	43	1039956	480.496	ug/l		98
60) Dibromochloromethane	9.518	129	205615	120.749	ug/l		99
61) 1,2-Dibromoethane	9.610	107	196009	106.844	ug/l		97
64) Tetrachloroethene	9.269	164	142187	98.420	ug/l		99
65) Chlorobenzene	10.079	112	498984	103.935	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.165	131	175902	108.478	ug/l		99
67) Ethyl Benzene	10.195	91	828264	103.708	ug/l		100
68) m/p-Xylenes	10.299	106	638308	210.954	ug/l		97
69) o-Xylene	10.640	106	322030	103.533	ug/l		98
70) Styrene	10.652	104	548708	108.997	ug/l		99
71) Bromoform	10.799	173	140298	128.340	ug/l	#	99
73) Isopropylbenzene	10.963	105	796019	99.313	ug/l		100
74) N-amyl acetate	10.841	43	398918	98.808	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	286258	93.228	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	233884m	89.719	ug/l		
77) Bromobenzene	11.195	156	206774	101.054	ug/l		99
78) n-propylbenzene	11.305	91	894162	104.676	ug/l		99
79) 2-Chlorotoluene	11.366	91	560554	97.800	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	669305	100.572	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	100171	117.256	ug/l		90
82) 4-Chlorotoluene	11.451	91	647524	102.085	ug/l		98
83) tert-Butylbenzene	11.713	119	688015	101.376	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	684269	100.532	ug/l		99
85) sec-Butylbenzene	11.890	105	808247	102.828	ug/l		98
86) p-Isopropyltoluene	12.006	119	703703	108.063	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	370986	101.044	ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	371529	100.386	ug/l		99
89) n-Butylbenzene	12.329	91	602601	114.147	ug/l		99
90) Hexachloroethane	12.536	117	125658	119.283	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	375640	99.223	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	65340	100.012	ug/l		94
93) 1,2,4-Trichlorobenzene	13.585	180	246552	111.215	ug/l		100
94) Hexachlorobutadiene	13.725	225	87749	111.843	ug/l		98
95) Naphthalene	13.774	128	948508	104.267	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	256915	110.764	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043560.D
Acq On : 28 Oct 2024 12:31
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

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

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

ICAL Form

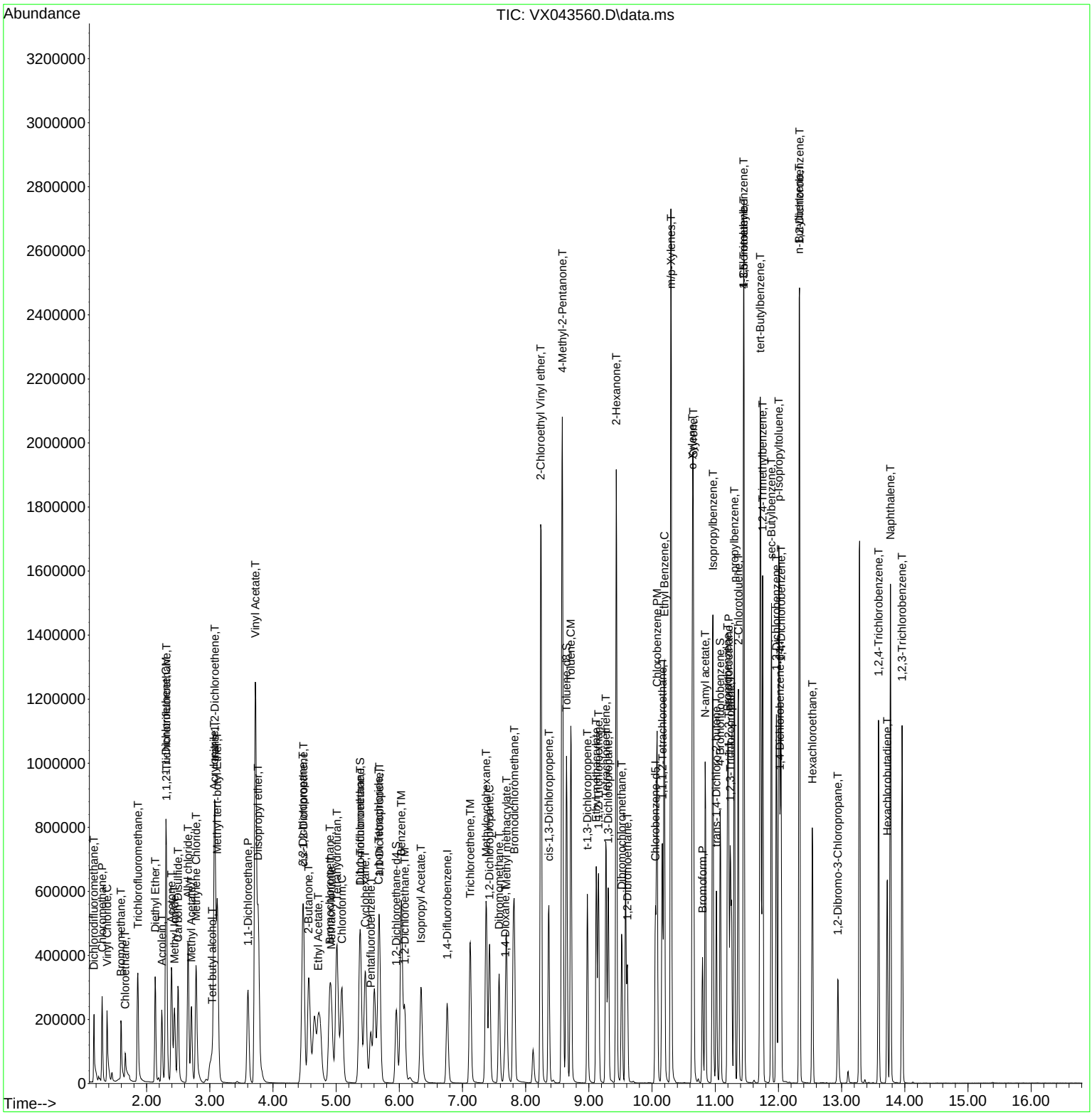
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043560.D
Acq On : 28 Oct 2024 12:31
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 13:31:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043561.D
Acq On : 28 Oct 2024 12:54
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 13:31:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	144618	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	264800	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	232776	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	112300	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	318806	138.969	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 277.940%#			
35) Dibromofluoromethane	5.385	113	256339	145.381	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 290.760%#			
50) Toluene-d8	8.647	98	851731	139.313	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 278.620%#			
62) 4-Bromofluorobenzene	11.079	95	329323	147.475	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 294.940%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	210421	130.533	ug/l	99
3) Chloromethane	1.295	50	265669	129.182	ug/l	100
4) Vinyl Chloride	1.374	62	256442	136.893	ug/l	98
5) Bromomethane	1.593	94	112014	153.092	ug/l	95
6) Chloroethane	1.660	64	90954	148.384	ug/l	100
7) Trichlorofluoromethane	1.861	101	310596	126.333	ug/l	100
8) Diethyl Ether	2.136	74	151359	140.945	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.313	101	212838	137.151	ug/l	99
10) Methyl Iodide	2.441	142	315072	146.614	ug/l	98
11) Tert butyl alcohol	3.026	59	337112	688.018	ug/l #	100
12) 1,1-Dichloroethene	2.307	96	222500	145.831	ug/l	96
13) Acrolein	2.239	56	241097	624.444	ug/l	98
14) Allyl chloride	2.654	41	395090	145.930	ug/l	98
15) Acrylonitrile	3.069	53	736707	678.747	ug/l	99
16) Acetone	2.392	43	639840	653.408	ug/l	99
17) Carbon Disulfide	2.495	76	532448	168.596	ug/l	99
18) Methyl Acetate	2.709	43	392340	133.313	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	867383	146.111	ug/l	97
20) Methylene Chloride	2.782	84	274424	143.401	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	236759	143.334	ug/l	97
22) Diisopropyl ether	3.764	45	790777	141.515	ug/l	96
23) Vinyl Acetate	3.721	43	3509530	760.241	ug/l	99
24) 1,1-Dichloroethane	3.605	63	454844	144.305	ug/l	99
25) 2-Butanone	4.568	43	995055	669.046	ug/l	99
26) 2,2-Dichloropropane	4.471	77	367692	161.856	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	306808	149.076	ug/l	98
28) Bromochloromethane	4.898	49	223906	143.593	ug/l	99
29) Tetrahydrofuran	5.013	42	639748	658.777	ug/l	99
30) Chloroform	5.093	83	471770	139.964	ug/l	99
31) Cyclohexane	5.458	56	333317	133.285	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	407373	143.818	ug/l	99
36) 1,1-Dichloropropene	5.684	75	292944	140.377	ug/l	99
37) Ethyl Acetate	4.721	43	384683	135.067	ug/l	99
38) Carbon Tetrachloride	5.672	117	340536	143.607	ug/l	98
39) Methylcyclohexane	7.379	83	375923	140.469	ug/l	98
40) Benzene	6.031	78	989523	141.848	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043561.D
Acq On : 28 Oct 2024 12:54
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 13:31:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	203044	141.732	ug/l		96
42) 1,2-Dichloroethane	6.086	62	370244	144.284	ug/l		99
43) Isopropyl Acetate	6.342	43	646810	143.566	ug/l		99
44) Trichloroethene	7.123	130	251726	152.200	ug/l		96
45) 1,2-Dichloropropane	7.428	63	254281	149.267	ug/l		99
46) Dibromomethane	7.580	93	200317	153.073	ug/l		98
47) Bromodichloromethane	7.818	83	379264	163.366	ug/l		99
48) Methyl methacrylate	7.696	41	320841	152.537	ug/l		98
49) 1,4-Dioxane	7.671	88	113004	2091.122	ug/l		99
51) 4-Methyl-2-Pentanone	8.580	43	1948870	682.697	ug/l		99
52) Toluene	8.714	92	611241	142.120	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	405296	172.509	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	426054	165.131	ug/l		97
55) 1,1,2-Trichloroethane	9.153	97	259723	143.100	ug/l		99
56) Ethyl methacrylate	9.116	69	449693	153.315	ug/l		97
57) 1,3-Dichloropropane	9.305	76	437811	146.096	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	1091414	756.448	ug/l		98
59) 2-Hexanone	9.433	43	1462736	677.655	ug/l		98
60) Dibromochloromethane	9.519	129	299138	176.144	ug/l		99
61) 1,2-Dibromoethane	9.610	107	275091	150.355	ug/l		99
64) Tetrachloroethene	9.269	164	198596	136.289	ug/l		95
65) Chlorobenzene	10.080	112	703451	145.269	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	250797	153.341	ug/l		100
67) Ethyl Benzene	10.195	91	1141257	141.675	ug/l		100
68) m/p-Xylenes	10.299	106	878867	287.969	ug/l		97
69) o-Xylene	10.640	106	450386	143.559	ug/l		98
70) Styrene	10.653	104	777762	153.173	ug/l		100
71) Bromoform	10.799	173	207497	188.187	ug/l	#	97
73) Isopropylbenzene	10.964	105	1088275	135.577	ug/l		99
74) N-amyl acetate	10.842	43	575386	142.309	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	402017	130.738	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	335384m	128.467	ug/l		
77) Bromobenzene	11.195	156	285385	139.269	ug/l		98
78) n-propylbenzene	11.305	91	1224689	143.160	ug/l		99
79) 2-Chlorotoluene	11.366	91	773459	134.748	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	914265	137.180	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	145480	170.044	ug/l		91
82) 4-Chlorotoluene	11.451	91	893567	140.669	ug/l		97
83) tert-Butylbenzene	11.713	119	935627	137.660	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	953082	139.821	ug/l		100
85) sec-Butylbenzene	11.890	105	1112980	141.391	ug/l		98
86) p-Isopropyltoluene	12.006	119	958987	147.051	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	521523	141.838	ug/l		99
88) 1,4-Dichlorobenzene	12.043	146	522586	140.994	ug/l		99
89) n-Butylbenzene	12.329	91	830990	157.180	ug/l		99
90) Hexachloroethane	12.536	117	179474	170.120	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	534157	140.889	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	94746	144.811	ug/l		92
93) 1,2,4-Trichlorobenzene	13.585	180	354426	159.641	ug/l		99
94) Hexachlorobutadiene	13.725	225	118245	150.492	ug/l		98
95) Naphthalene	13.774	128	1350122	148.198	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	363960	156.686	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043561.D
Acq On : 28 Oct 2024 12:54
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

ICAL Form

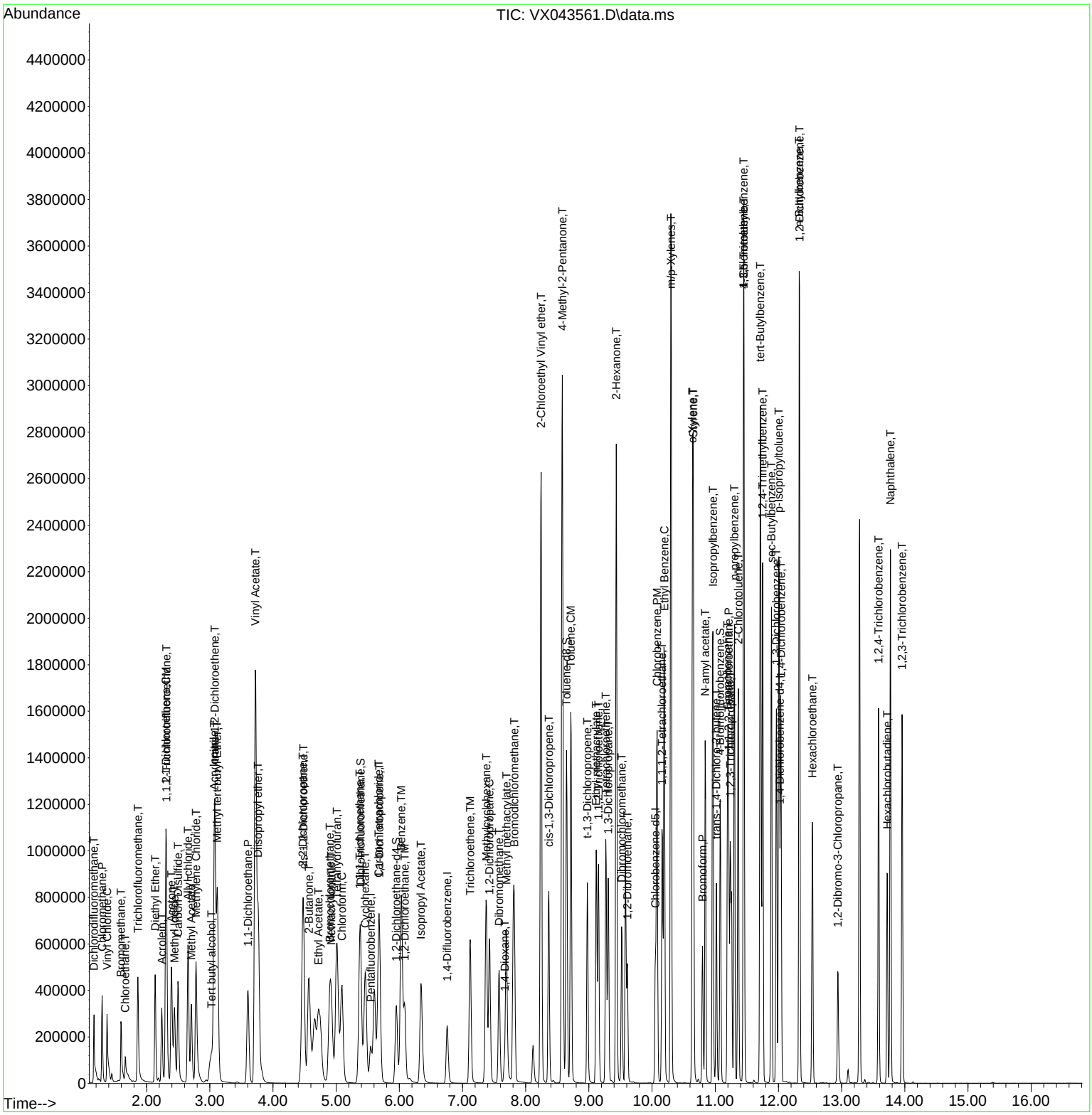
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043561.D
Acq On : 28 Oct 2024 12:54
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 13:31:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043563.D
Acq On : 28 Oct 2024 14:27
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 03:22:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102824

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.550	168	179424	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	320605	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	273282	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	130429	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.952	65	130207	45.512	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 91.020%				
35) Dibromofluoromethane	5.385	113	103607	47.657	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.320%				
50) Toluene-d8	8.647	98	364696	48.461	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.920%				
62) 4-Bromofluorobenzene	11.079	95	134767	48.327	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.660%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	81674	42.565	ug/l		94
3) Chloromethane	1.294	50	101631	41.434	ug/l		99
4) Vinyl Chloride	1.374	62	99612	43.758	ug/l		96
5) Bromomethane	1.593	94	38610	41.604	ug/l		98
6) Chloroethane	1.660	64	32071	39.988	ug/l		96
7) Trichlorofluoromethane	1.855	101	128270	46.124	ug/l		96
8) Diethyl Ether	2.136	74	55490	43.186	ug/l		99
9) 1,1,2-Trichlorotrifluo...	2.306	101	83899	44.609	ug/l		98
10) Methyl Iodide	2.441	142	121643	44.767	ug/l		99
11) Tert butyl alcohol	3.044	59	122504	229.410	ug/l	#	100
12) 1,1-Dichloroethene	2.300	96	86406	44.957	ug/l		95
13) Acrolein	2.239	56	91162	218.298	ug/l		99
14) Allyl chloride	2.654	41	151352	45.529	ug/l		99
15) Acrylonitrile	3.069	53	266930	221.401	ug/l		98
16) Acetone	2.398	43	254666	224.158	ug/l		99
17) Carbon Disulfide	2.495	76	190995	47.524	ug/l		99
18) Methyl Acetate	2.709	43	140984	42.460	ug/l		98
19) Methyl tert-butyl Ether	3.123	73	317078	43.380	ug/l		97
20) Methylene Chloride	2.782	84	101646	41.513	ug/l		98
21) trans-1,2-Dichloroethene	3.081	96	89643	44.148	ug/l		96
22) Diisopropyl ether	3.764	45	300804	43.777	ug/l		97
23) Vinyl Acetate	3.721	43	1302117	229.380	ug/l		99
24) 1,1-Dichloroethane	3.605	63	172319	43.633	ug/l		100
25) 2-Butanone	4.568	43	368994	222.655	ug/l		100
26) 2,2-Dichloropropane	4.465	77	148949	46.075	ug/l		100
27) cis-1,2-Dichloroethene	4.483	96	113181	43.635	ug/l		98
28) Bromochloromethane	4.891	49	80045	42.606	ug/l		99
29) Tetrahydrofuran	5.007	42	235105	218.299	ug/l		99
30) Chloroform	5.086	83	180585	43.621	ug/l		95
31) Cyclohexane	5.458	56	133601	44.229	ug/l		99
32) 1,1,1-Trichloroethane	5.379	97	157829	45.409	ug/l		99
36) 1,1-Dichloropropene	5.684	75	115808	44.924	ug/l		99
37) Ethyl Acetate	4.721	43	146662	46.862	ug/l		99
38) Carbon Tetrachloride	5.672	117	131275	46.088	ug/l		98
39) Methylcyclohexane	7.373	83	146003	45.618	ug/l		97
40) Benzene	6.031	78	379529	44.132	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043563.D
Acq On : 28 Oct 2024 14:27
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102824

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 03:22:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	73439	44.704	ug/l		94
42) 1,2-Dichloroethane	6.080	62	137504	44.475	ug/l		99
43) Isopropyl Acetate	6.342	43	233162	45.049	ug/l		99
44) Trichloroethene	7.123	130	95769	44.826	ug/l		95
45) 1,2-Dichloropropane	7.428	63	94807	44.772	ug/l		98
46) Dibromomethane	7.580	93	71516	43.863	ug/l		98
47) Bromodichloromethane	7.818	83	134816	47.134	ug/l		100
48) Methyl methacrylate	7.696	41	113455	46.235	ug/l		100
49) 1,4-Dioxane	7.677	88	52802	1047.352	ug/l		98
51) 4-Methyl-2-Pentanone	8.580	43	723604	229.383	ug/l		99
52) Toluene	8.714	92	239913	46.000	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	143840	46.821	ug/l		94
54) cis-1,3-Dichloropropene	8.366	75	156936	47.945	ug/l		99
55) 1,1,2-Trichloroethane	9.153	97	97965	45.125	ug/l		99
56) Ethyl methacrylate	9.116	69	161309	45.728	ug/l		98
57) 1,3-Dichloropropane	9.305	76	159880	44.279	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	384698	225.175	ug/l		98
59) 2-Hexanone	9.433	43	551262	230.086	ug/l		99
60) Dibromochloromethane	9.519	129	104046	48.399	ug/l		99
61) 1,2-Dibromoethane	9.610	107	101053	44.841	ug/l		99
64) Tetrachloroethene	9.269	164	78661	45.765	ug/l		96
65) Chlorobenzene	10.079	112	267388	45.479	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	93224	48.543	ug/l		99
67) Ethyl Benzene	10.189	91	450377	46.977	ug/l		97
68) m/p-Xylenes	10.299	106	349227	95.253	ug/l		97
69) o-Xylene	10.640	106	175059	47.523	ug/l		99
70) Styrene	10.653	104	294680	48.130	ug/l		99
71) Bromoform	10.799	173	69053	50.009	ug/l	#	98
73) Isopropylbenzene	10.963	105	434285	47.005	ug/l		100
74) N-amyl acetate	10.842	43	212192	47.145	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	151871	45.712	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	123473m	44.275	ug/l		
77) Bromobenzene	11.195	156	108482	45.472	ug/l		100
78) n-propylbenzene	11.305	91	480204	47.669	ug/l		99
79) 2-Chlorotoluene	11.360	91	303930	45.500	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	369790	48.003	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	49799	49.126	ug/l		94
82) 4-Chlorotoluene	11.451	91	348692	46.508	ug/l		97
83) tert-Butylbenzene	11.713	119	375497	47.929	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	372516	47.450	ug/l		99
85) sec-Butylbenzene	11.890	105	444311	48.384	ug/l		99
86) p-Isopropyltoluene	12.006	119	377100	48.310	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	196597	45.977	ug/l		100
88) 1,4-Dichlorobenzene	12.043	146	197418	44.556	ug/l		100
89) n-Butylbenzene	12.329	91	317946	49.987	ug/l		100
90) Hexachloroethane	12.536	117	64443	50.825	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	200702	45.901	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	32952	48.652	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	127790	48.149	ug/l		100
94) Hexachlorobutadiene	13.725	225	46538	47.558	ug/l		99
95) Naphthalene	13.774	128	491660	48.409	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	131581	47.022	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043563.D
Acq On : 28 Oct 2024 14:27
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102824

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 03:22:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

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

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

ICAL Form

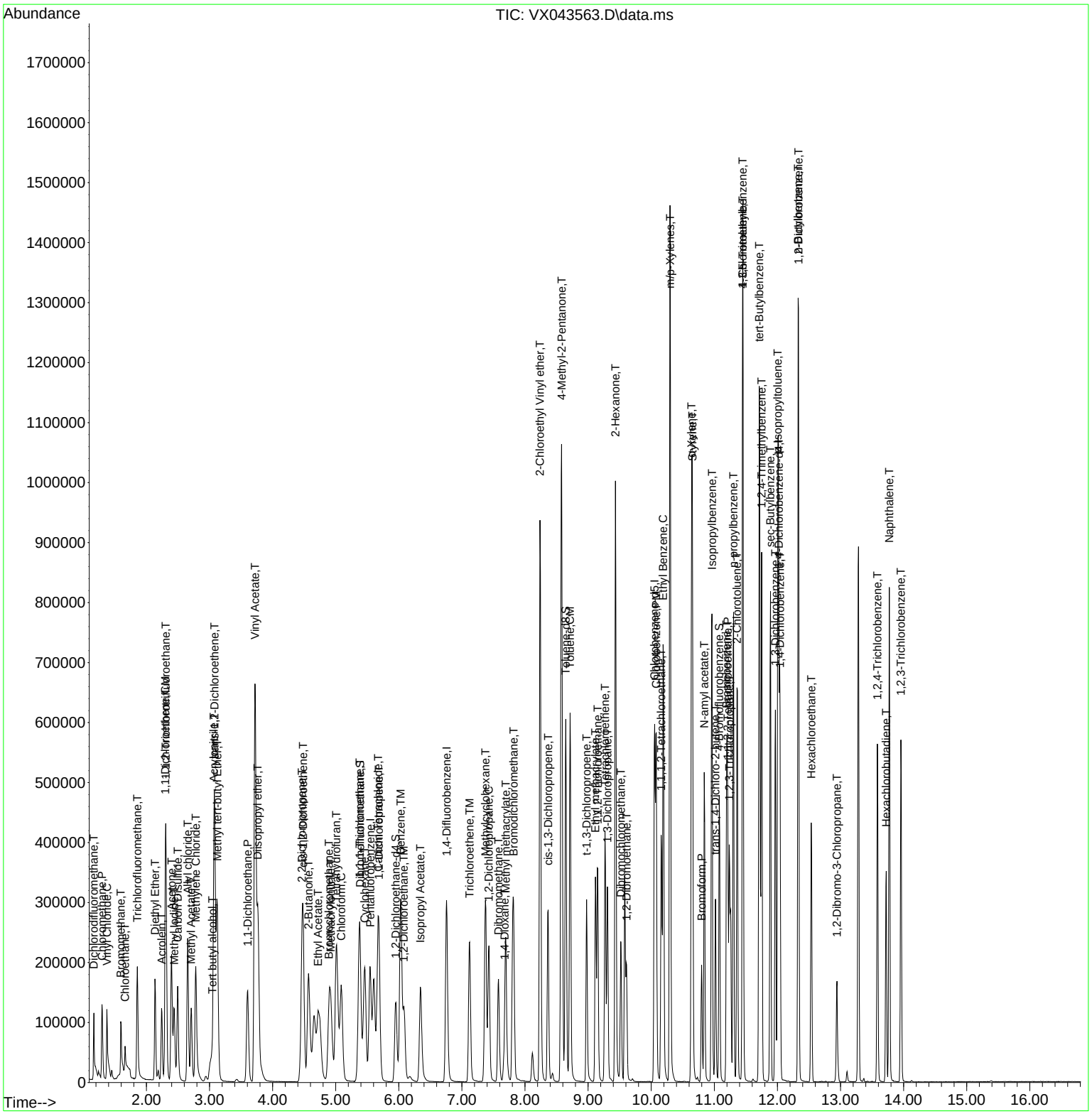
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043563.D
Acq On : 28 Oct 2024 14:27
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 03:22:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102824

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043563.D
Acq On : 28 Oct 2024 14:27
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102824

Quant Time: Oct 29 03:22:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	120	0.00
2	T	Dichlorodifluoromethane	0.535	0.455	15.0	108	0.00
3	P	Chloromethane	0.684	0.566	17.3	105	0.00
4	C	Vinyl Chloride	0.634	0.555	12.5#	105	0.00
5	T	Bromomethane	0.259	0.215	17.0	99	0.00
6	T	Chloroethane	0.223	0.179	19.7	96	0.00
7	T	Trichlorofluoromethane	0.775	0.715	7.7	111	0.00
8	T	Diethyl Ether	0.358	0.309	13.7	105	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.524	0.468	10.7	107	0.00
10	T	Methyl Iodide	0.757	0.678	10.4	104	0.00
11	T	Tert butyl alcohol	0.149	0.137	8.1	106	0.00
12	CM	1,1-Dichloroethene	0.536	0.482	10.1#	108	0.00
13	T	Acrolein	0.116	0.102	12.1	113	0.00
14	T	Allyl chloride	0.926	0.844	8.9	107	0.00
15	T	Acrylonitrile	0.336	0.298	11.3	103	0.00
16	T	Acetone	0.317	0.284	10.4	109	0.00
17	T	Carbon Disulfide	1.120	1.064	5.0	113	0.00
18	T	Methyl Acetate	0.925	0.786	15.0	102	0.00
19	T	Methyl tert-butyl Ether	2.037	1.767	13.3	102	0.00
20	T	Methylene Chloride	0.682	0.567	16.9	103	0.00
21	T	trans-1,2-Dichloroethene	0.566	0.500	11.7	107	0.00
22	T	Diisopropyl ether	1.915	1.676	12.5	104	0.00
23	T	Vinyl Acetate	1.582	1.451	8.3	104	0.00
24	P	1,1-Dichloroethane	1.101	0.960	12.8	104	0.00
25	T	2-Butanone	0.462	0.411	11.0	103	0.00
26	T	2,2-Dichloropropane	0.901	0.830	7.9	112	0.00
27	T	cis-1,2-Dichloroethene	0.723	0.631	12.7	103	0.00
28	T	Bromochloromethane	0.524	0.446	14.9	106	0.00
29	T	Tetrahydrofuran	0.300	0.262	12.7	102	0.00
30	C	Chloroform	1.154	1.006	12.8#	104	0.00
31	T	Cyclohexane	0.842	0.745	11.5	107	0.00
32	T	1,1,1-Trichloroethane	0.969	0.880	9.2	107	0.00
33	S	1,2-Dichloroethane-d4	0.797	0.726	8.9	111	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	118	0.00
35	S	Dibromofluoromethane	0.339	0.323	4.7	114	0.00
36	T	1,1-Dichloropropene	0.402	0.361	10.2	110	0.00
37	T	Ethyl Acetate	0.488	0.457	6.4	107	0.00
38	T	Carbon Tetrachloride	0.444	0.409	7.9	109	0.00
39	T	Methylcyclohexane	0.499	0.455	8.8	106	0.00
40	TM	Benzene	1.341	1.184	11.7	103	0.00
41	T	Methacrylonitrile	0.256	0.229	10.5	100	0.00
42	TM	1,2-Dichloroethane	0.482	0.429	11.0	103	0.00
43	T	Isopropyl Acetate	0.807	0.727	9.9	103	0.00
44	TM	Trichloroethene	0.333	0.299	10.2	105	0.00
45	C	1,2-Dichloropropane	0.330	0.296	10.3#	104	0.00
46	T	Dibromomethane	0.254	0.223	12.2	102	0.00
47	T	Bromodichloromethane	0.446	0.421	5.6	104	0.00
48	T	Methyl methacrylate	0.383	0.354	7.6	104	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043563.D
Acq On : 28 Oct 2024 14:27
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102824

Quant Time: Oct 29 03:22:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.008	0.008	0.0	119	0.00
50	S	Toluene-d8	1.174	1.138	3.1	115	0.00
51	T	4-Methyl-2-Pentanone	0.492	0.451	8.3	102	0.00
52	CM	Toluene	0.813	0.748	8.0#	106	0.00
53	T	t-1,3-Dichloropropene	0.479	0.449	6.3	104	0.00
54	T	cis-1,3-Dichloropropene	0.510	0.489	4.1	107	0.00
55	T	1,1,2-Trichloroethane	0.339	0.306	9.7	102	0.00
56	T	Ethyl methacrylate	0.550	0.503	8.5	101	0.00
57	T	1,3-Dichloropropane	0.563	0.499	11.4	100	0.00
58	T	2-Chloroethyl Vinyl ether	0.266	0.240	9.8	106	0.00
59	T	2-Hexanone	0.374	0.344	8.0	102	0.00
60	T	Dibromochloromethane	0.335	0.325	3.0	105	0.00
61	T	1,2-Dibromoethane	0.351	0.315	10.3	102	0.00
62	S	4-Bromofluorobenzene	0.435	0.420	3.4	112	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	115	0.00
64	T	Tetrachloroethene	0.314	0.288	8.3	107	0.00
65	PM	Chlorobenzene	1.076	0.978	9.1	104	0.00
66	T	1,1,1,2-Tetrachloroethane	0.351	0.341	2.8	105	0.00
67	C	Ethyl Benzene	1.754	1.648	6.0#	106	0.00
68	T	m/p-Xylenes	0.671	0.639	4.8	106	0.00
69	T	o-Xylene	0.674	0.641	4.9	107	0.00
70	T	Styrene	1.120	1.078	3.8	105	0.00
71	P	Bromoform	0.253	0.253	0.0	105	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
73	T	Isopropylbenzene	3.542	3.330	6.0	106	0.00
74	T	N-amyl acetate	1.725	1.627	5.7	104	0.00
75	P	1,1,2,2-Tetrachloroethane	1.274	1.164	8.6	103	0.00
76	T	1,2,3-Trichloropropane	1.069	0.947	11.4	100	0.00
77	T	Bromobenzene	0.915	0.832	9.1	102	0.00
78	T	n-propylbenzene	3.862	3.682	4.7	105	0.00
79	T	2-Chlorotoluene	2.561	2.330	9.0	105	0.00
80	T	1,3,5-Trimethylbenzene	2.953	2.835	4.0	106	0.00
81	T	trans-1,4-Dichloro-2-butene	0.389	0.382	1.8	104	0.00
82	T	4-Chlorotoluene	2.874	2.673	7.0	105	0.00
83	T	tert-Butylbenzene	3.003	2.879	4.1	108	0.00
84	T	1,2,4-Trimethylbenzene	3.010	2.856	5.1	105	0.00
85	T	sec-Butylbenzene	3.520	3.407	3.2	106	0.00
86	T	p-Isopropyltoluene	2.992	2.891	3.4	105	0.00
87	T	1,3-Dichlorobenzene	1.639	1.507	8.1	104	0.00
88	T	1,4-Dichlorobenzene	1.699	1.514	10.9	104	0.00
89	T	n-Butylbenzene	2.438	2.438	0.0	106	0.00
90	T	Hexachloroethane	0.486	0.494	-1.6	108	0.00
91	T	1,2-Dichlorobenzene	1.676	1.539	8.2	101	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.260	0.253	2.7	102	0.00
93	T	1,2,4-Trichlorobenzene	1.017	0.980	3.6	103	0.00
94	T	Hexachlorobutadiene	0.375	0.357	4.8	109	0.00
95	T	Naphthalene	3.893	3.770	3.2	104	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043563.D
Acq On : 28 Oct 2024 14:27
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102824

Quant Time: Oct 29 03:22:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.073	1.009	6.0	104	0.00

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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043563.D
Acq On : 28 Oct 2024 14:27
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102824

Quant Time: Oct 29 03:22:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	120	0.00
2	T	Dichlorodifluoromethane	50.000	42.565	14.9	108	0.00
3	P	Chloromethane	50.000	41.434	17.1	105	0.00
4	C	Vinyl Chloride	50.000	43.758	12.5#	105	0.00
5	T	Bromomethane	50.000	41.604	16.8	99	0.00
6	T	Chloroethane	50.000	39.988	20.0	96	0.00
7	T	Trichlorofluoromethane	50.000	46.124	7.8	111	0.00
8	T	Diethyl Ether	50.000	43.186	13.6	105	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	44.609	10.8	107	0.00
10	T	Methyl Iodide	50.000	44.767	10.5	104	0.00
11	T	Tert butyl alcohol	250.000	229.410	8.2	106	0.00
12	CM	1,1-Dichloroethene	50.000	44.957	10.1#	108	0.00
13	T	Acrolein	250.000	218.298	12.7	113	0.00
14	T	Allyl chloride	50.000	45.529	8.9	107	0.00
15	T	Acrylonitrile	250.000	221.401	11.4	103	0.00
16	T	Acetone	250.000	224.158	10.3	109	0.00
17	T	Carbon Disulfide	50.000	47.524	5.0	113	0.00
18	T	Methyl Acetate	50.000	42.460	15.1	102	0.00
19	T	Methyl tert-butyl Ether	50.000	43.380	13.2	102	0.00
20	T	Methylene Chloride	50.000	41.513	17.0	103	0.00
21	T	trans-1,2-Dichloroethene	50.000	44.148	11.7	107	0.00
22	T	Diisopropyl ether	50.000	43.777	12.4	104	0.00
23	T	Vinyl Acetate	250.000	229.380	8.2	104	0.00
24	P	1,1-Dichloroethane	50.000	43.633	12.7	104	0.00
25	T	2-Butanone	250.000	222.655	10.9	103	0.00
26	T	2,2-Dichloropropane	50.000	46.075	7.8	112	0.00
27	T	cis-1,2-Dichloroethene	50.000	43.635	12.7	103	0.00
28	T	Bromochloromethane	50.000	42.606	14.8	106	0.00
29	T	Tetrahydrofuran	250.000	218.299	12.7	102	0.00
30	C	Chloroform	50.000	43.621	12.8#	104	0.00
31	T	Cyclohexane	50.000	44.229	11.5	107	0.00
32	T	1,1,1-Trichloroethane	50.000	45.409	9.2	107	0.00
33	S	1,2-Dichloroethane-d4	50.000	45.512	9.0	111	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	118	0.00
35	S	Dibromofluoromethane	50.000	47.657	4.7	114	0.00
36	T	1,1-Dichloropropene	50.000	44.924	10.2	110	0.00
37	T	Ethyl Acetate	50.000	46.862	6.3	107	0.00
38	T	Carbon Tetrachloride	50.000	46.088	7.8	109	0.00
39	T	Methylcyclohexane	50.000	45.618	8.8	106	0.00
40	TM	Benzene	50.000	44.132	11.7	103	0.00
41	T	Methacrylonitrile	50.000	44.704	10.6	100	0.00
42	TM	1,2-Dichloroethane	50.000	44.475	11.0	103	0.00
43	T	Isopropyl Acetate	50.000	45.049	9.9	103	0.00
44	TM	Trichloroethene	50.000	44.826	10.3	105	0.00
45	C	1,2-Dichloropropane	50.000	44.772	10.5#	104	0.00
46	T	Dibromomethane	50.000	43.863	12.3	102	0.00
47	T	Bromodichloromethane	50.000	47.134	5.7	104	0.00
48	T	Methyl methacrylate	50.000	46.235	7.5	104	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043563.D
Acq On : 28 Oct 2024 14:27
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102824

Quant Time: Oct 29 03:22:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1047.352	-4.7	119	0.00
50	S	Toluene-d8	50.000	48.461	3.1	115	0.00
51	T	4-Methyl-2-Pentanone	250.000	229.383	8.2	102	0.00
52	CM	Toluene	50.000	46.000	8.0#	106	0.00
53	T	t-1,3-Dichloropropene	50.000	46.821	6.4	104	0.00
54	T	cis-1,3-Dichloropropene	50.000	47.945	4.1	107	0.00
55	T	1,1,2-Trichloroethane	50.000	45.125	9.8	102	0.00
56	T	Ethyl methacrylate	50.000	45.728	8.5	101	0.00
57	T	1,3-Dichloropropane	50.000	44.279	11.4	100	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	225.175	9.9	106	0.00
59	T	2-Hexanone	250.000	230.086	8.0	102	0.00
60	T	Dibromochloromethane	50.000	48.399	3.2	105	0.00
61	T	1,2-Dibromoethane	50.000	44.841	10.3	102	0.00
62	S	4-Bromofluorobenzene	50.000	48.327	3.3	112	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	115	0.00
64	T	Tetrachloroethene	50.000	45.765	8.5	107	0.00
65	PM	Chlorobenzene	50.000	45.479	9.0	104	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.543	2.9	105	0.00
67	C	Ethyl Benzene	50.000	46.977	6.0#	106	0.00
68	T	m/p-Xylenes	100.000	95.253	4.7	106	0.00
69	T	o-Xylene	50.000	47.523	5.0	107	0.00
70	T	Styrene	50.000	48.130	3.7	105	0.00
71	P	Bromoform	50.000	50.009	-0.0	105	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	114	0.00
73	T	Isopropylbenzene	50.000	47.005	6.0	106	0.00
74	T	N-amyl acetate	50.000	47.145	5.7	104	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	45.712	8.6	103	0.00
76	T	1,2,3-Trichloropropane	50.000	44.275	11.5	100	0.00
77	T	Bromobenzene	50.000	45.472	9.1	102	0.00
78	T	n-propylbenzene	50.000	47.669	4.7	105	0.00
79	T	2-Chlorotoluene	50.000	45.500	9.0	105	0.00
80	T	1,3,5-Trimethylbenzene	50.000	48.003	4.0	106	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.126	1.7	104	0.00
82	T	4-Chlorotoluene	50.000	46.508	7.0	105	0.00
83	T	tert-Butylbenzene	50.000	47.929	4.1	108	0.00
84	T	1,2,4-Trimethylbenzene	50.000	47.450	5.1	105	0.00
85	T	sec-Butylbenzene	50.000	48.384	3.2	106	0.00
86	T	p-Isopropyltoluene	50.000	48.310	3.4	105	0.00
87	T	1,3-Dichlorobenzene	50.000	45.977	8.0	104	0.00
88	T	1,4-Dichlorobenzene	50.000	44.556	10.9	104	0.00
89	T	n-Butylbenzene	50.000	49.987	0.0	106	0.00
90	T	Hexachloroethane	50.000	50.825	-1.7	108	0.00
91	T	1,2-Dichlorobenzene	50.000	45.901	8.2	101	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.652	2.7	102	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.149	3.7	103	0.00
94	T	Hexachlorobutadiene	50.000	47.558	4.9	109	0.00
95	T	Naphthalene	50.000	48.409	3.2	104	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043563.D
Acq On : 28 Oct 2024 14:27
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102824

Quant Time: Oct 29 03:22:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	47.022	6.0	104	0.00

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

Raw Data: **VX043637.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4646 SAS No.: P4646 SDG No.: P4646

Instrument ID: MSVOA_X Calibration Date/Time: 10/31/2024 09:26

Lab File ID: VX043637.D Init. Calib. Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.535	0.436		-18.5	20
Chloromethane	0.684	0.567	0.1	-17.1	20
Vinyl Chloride	0.634	0.549		-13.41	20
Bromomethane	0.259	0.245		-5.41	20
Chloroethane	0.223	0.223		0	20
Trichlorofluoromethane	0.775	0.742		-4.26	20
1,1,2-Trichlorotrifluoroethane	0.524	0.506		-3.43	20
1,1-Dichloroethene	0.536	0.499		-6.9	20
Acetone	0.317	0.342		7.89	20
Carbon Disulfide	1.120	0.987		-11.88	20
Methyl tert-butyl Ether	2.037	1.935		-5.01	20
Methyl Acetate	0.925	0.865		-6.49	20
Methylene Chloride	0.682	0.647		-5.13	20
trans-1,2-Dichloroethene	0.566	0.539		-4.77	20
1,1-Dichloroethane	1.101	1.048	0.1	-4.81	20
Cyclohexane	0.842	0.760		-9.74	20
2-Butanone	0.462	0.468		1.3	20
Carbon Tetrachloride	0.444	0.400		-9.91	20
cis-1,2-Dichloroethene	0.723	0.730		0.97	20
Bromochloromethane	0.524	0.514		-1.91	20
Chloroform	1.154	1.122		-2.77	20
1,1,1-Trichloroethane	0.969	0.877		-9.49	20
Methylcyclohexane	0.499	0.467		-6.41	20
Benzene	1.341	1.290		-3.8	20
1,2-Dichloroethane	0.482	0.455		-5.6	20
Trichloroethene	0.333	0.332		-0.3	20
1,2-Dichloropropane	0.330	0.327		-0.91	20
Bromodichloromethane	0.446	0.454		1.79	20
4-Methyl-2-Pentanone	0.492	0.494		0.41	20
Toluene	0.813	0.811		-0.25	20
t-1,3-Dichloropropene	0.479	0.492		2.71	20
cis-1,3-Dichloropropene	0.510	0.537		5.29	20
1,1,2-Trichloroethane	0.339	0.354		4.43	20
2-Hexanone	0.374	0.387		3.48	20
Dibromochloromethane	0.335	0.368		9.85	20
1,2-Dibromoethane	0.351	0.360		2.56	20
Tetrachloroethene	0.314	0.300		-4.46	20
Chlorobenzene	1.076	1.062	0.3	-1.3	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4646 SAS No.: P4646 SDG No.: P4646

Instrument ID: MSVOA_X Calibration Date/Time: 10/31/2024 09:26

Lab File ID: VX043637.D Init. Calib. Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.754	1.678		-4.33	20
m/p-Xylenes	0.671	0.659		-1.79	20
o-Xylene	0.674	0.678		0.59	20
Styrene	1.120	1.182		5.54	20
Bromoform	0.253	0.264	0.1	4.35	20
Isopropylbenzene	3.542	3.215		-9.23	20
1,1,2,2-Tetrachloroethane	1.274	1.197	0.3	-6.04	20
1,3-Dichlorobenzene	1.639	1.663		1.46	20
1,4-Dichlorobenzene	1.699	1.684		-0.88	20
1,2-Dichlorobenzene	1.676	1.694		1.07	20
1,2-Dibromo-3-Chloropropane	0.260	0.229		-11.92	20
1,2,4-Trichlorobenzene	1.017	1.072		5.41	20
1,2,3-Trichlorobenzene	1.073	1.066		-0.65	20
1,2-Dichloroethane-d4	0.797	0.754		-5.39	20
Dibromofluoromethane	0.339	0.361		6.49	20
Toluene-d8	1.174	1.249		6.39	20
4-Bromofluorobenzene	0.435	0.486		11.72	20

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

Sample Results: **VX043637.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043637.D
Acq On : 31 Oct 2024 09:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 00:46:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	125344	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	226770	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	205964	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	102825	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	94555	47.310	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 94.620%			
35) Dibromofluoromethane	5.379	113	81900	53.261	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.520%			
50) Toluene-d8	8.647	98	283128	53.189	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.380%			
62) 4-Bromofluorobenzene	11.079	95	110193	55.866	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.740%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	54630	40.754	ug/l	95
3) Chloromethane	1.294	50	71057	41.468	ug/l	99
4) Vinyl Chloride	1.374	62	68813	43.270	ug/l	100
5) Bromomethane	1.593	94	30713	47.374	ug/l	100
6) Chloroethane	1.660	64	27974	49.929	ug/l	96
7) Trichlorofluoromethane	1.868	101	92945	47.841	ug/l	96
8) Diethyl Ether	2.130	74	43629	48.605	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.313	101	63383	48.241	ug/l	97
10) Methyl Iodide	2.441	142	97408	51.315	ug/l	95
11) Tert butyl alcohol	2.995	59	99369m	266.372	ug/l	
12) 1,1-Dichloroethene	2.306	96	62541	46.580	ug/l	92
13) Acrolein	2.233	56	70032	240.054	ug/l	99
14) Allyl chloride	2.654	41	110307	47.499	ug/l	95
15) Acrylonitrile	3.062	53	212187	251.929	ug/l	99
16) Acetone	2.386	43	214461	270.215	ug/l	98
17) Carbon Disulfide	2.495	76	123686	44.054	ug/l	99
18) Methyl Acetate	2.703	43	108365	46.717	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	242584	47.508	ug/l	100
20) Methylene Chloride	2.782	84	81093	47.409	ug/l	94
21) trans-1,2-Dichloroethene	3.081	96	67589	47.648	ug/l	94
22) Diisopropyl ether	3.764	45	230005	47.916	ug/l	90
23) Vinyl Acetate	3.715	43	984017	248.133	ug/l	99
24) 1,1-Dichloroethane	3.599	63	131422	47.635	ug/l	98
25) 2-Butanone	4.556	43	293485	253.499	ug/l	97
26) 2,2-Dichloropropane	4.465	77	107641	47.664	ug/l	98
27) cis-1,2-Dichloroethene	4.477	96	91468	50.479	ug/l	95
28) Bromochloromethane	4.891	49	64385	49.057	ug/l	97
29) Tetrahydrofuran	5.007	42	178696	237.510	ug/l	95
30) Chloroform	5.080	83	140643	48.630	ug/l	95
31) Cyclohexane	5.458	56	95297	45.160	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	109959	45.286	ug/l	99
36) 1,1-Dichloropropene	5.678	75	81638	44.773	ug/l	97
37) Ethyl Acetate	4.715	43	103743	46.865	ug/l	97
38) Carbon Tetrachloride	5.666	117	90676	45.007	ug/l	99
39) Methylcyclohexane	7.373	83	105853	46.759	ug/l	97
40) Benzene	6.031	78	292561	48.096	ug/l	100

Sample Results: **VX043637.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043637.D
Acq On : 31 Oct 2024 09:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 00:46:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	58055	49.963 ug/l	96
42) 1,2-Dichloroethane	6.080	62	103095	47.144 ug/l	96
43) Isopropyl Acetate	6.336	43	176311	48.161 ug/l	97
44) Trichloroethene	7.117	130	75252	49.797 ug/l	92
45) 1,2-Dichloropropane	7.428	63	74177	49.525 ug/l	97
46) Dibromomethane	7.580	93	56231	48.759 ug/l	97
47) Bromodichloromethane	7.818	83	102951	50.887 ug/l	99
48) Methyl methacrylate	7.690	41	83362	48.029 ug/l	94
49) 1,4-Dioxane	7.659	88	36151	1013.788 ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	559948	250.953 ug/l	98
52) Toluene	8.714	92	183832	49.832 ug/l	100
53) t-1,3-Dichloropropene	8.976	75	111615	51.365 ug/l	97
54) cis-1,3-Dichloropropene	8.360	75	121730	52.578 ug/l	96
55) 1,1,2-Trichloroethane	9.147	97	80170	52.209 ug/l	99
56) Ethyl methacrylate	9.116	69	128528	51.512 ug/l	93
57) 1,3-Dichloropropane	9.305	76	130821	51.223 ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	294505	243.712 ug/l	97
59) 2-Hexanone	9.433	43	438273	258.620 ug/l	96
60) Dibromochloromethane	9.519	129	83451	54.882 ug/l	99
61) 1,2-Dibromoethane	9.610	107	81652	51.224 ug/l	97
64) Tetrachloroethene	9.269	164	61874	47.764 ug/l	93
65) Chlorobenzene	10.079	112	218743	49.365 ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	73118	50.518 ug/l	97
67) Ethyl Benzene	10.189	91	345523	47.820 ug/l	100
68) m/p-Xylenes	10.299	106	271660	98.314 ug/l	97
69) o-Xylene	10.640	106	139708	50.322 ug/l	96
70) Styrene	10.653	104	243358	52.739 ug/l	99
71) Bromoform	10.799	173	54338	52.214 ug/l #	97
73) Isopropylbenzene	10.963	105	330629	45.392 ug/l	99
74) N-amyl acetate	10.842	43	161714	45.576 ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	123053	46.981 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	102108m	46.444 ug/l	
77) Bromobenzene	11.195	156	91836	48.829 ug/l	97
78) n-propylbenzene	11.305	91	371402	46.766 ug/l	97
79) 2-Chlorotoluene	11.360	91	244006	46.335 ug/l	97
80) 1,3,5-Trimethylbenzene	11.451	105	288889	47.569 ug/l	97
81) trans-1,4-Dichloro-2-b...	11.018	75	39258	49.124 ug/l	94
82) 4-Chlorotoluene	11.451	91	283576	47.976 ug/l	94
83) tert-Butylbenzene	11.713	119	293319	47.490 ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	307148	49.626 ug/l	98
85) sec-Butylbenzene	11.890	105	341188	47.128 ug/l	99
86) p-Isopropyltoluene	12.006	119	299047	48.596 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	170973	50.718 ug/l	98
88) 1,4-Dichlorobenzene	12.043	146	173194	49.583 ug/l	99
89) n-Butylbenzene	12.329	91	252198	50.295 ug/l	98
90) Hexachloroethane	12.536	117	48476	48.496 ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	174227	50.543 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	23568	44.139 ug/l	85
93) 1,2,4-Trichlorobenzene	13.585	180	110193	52.665 ug/l	99
94) Hexachlorobutadiene	13.725	225	37269	48.310 ug/l	97
95) Naphthalene	13.774	128	395624	49.411 ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	109661	49.709 ug/l	98

Sample Results: **VX043637.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043637.D
Acq On : 31 Oct 2024 09:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 00:46:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

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

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

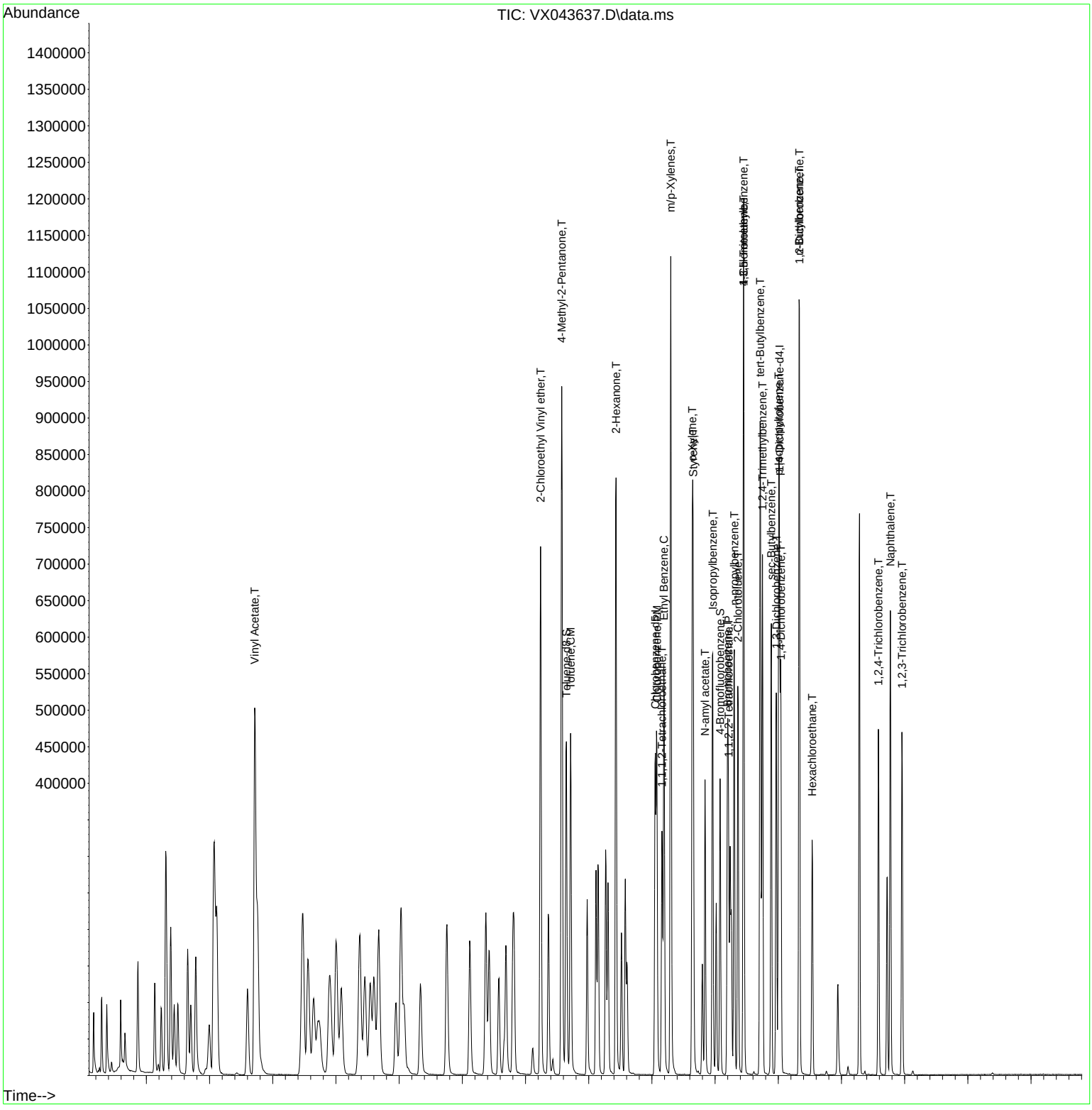
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043637.D
Acq On : 31 Oct 2024 09:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 00:46:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Sample Results: **VX043637.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043637.D
Acq On : 31 Oct 2024 09:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Nov 01 00:46:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	84	0.00
2	T	Dichlorodifluoromethane	0.535	0.436	18.5	72	0.00
3	P	Chloromethane	0.684	0.567	17.1	73	0.00
4	C	Vinyl Chloride	0.634	0.549	13.4#	73	0.00
5	T	Bromomethane	0.259	0.245	5.4	79	0.00
6	T	Chloroethane	0.223	0.223	0.0	83	0.00
7	T	Trichlorofluoromethane	0.775	0.742	4.3	80	0.01
8	T	Diethyl Ether	0.358	0.348	2.8	82	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.524	0.506	3.4	81	0.00
10	T	Methyl Iodide	0.757	0.777	-2.6	84	0.00
11	T	Tert butyl alcohol	0.149	0.159	-6.7	86	-0.05
12	CM	1,1-Dichloroethene	0.536	0.499	6.9#	78	0.00
13	T	Acrolein	0.116	0.112	3.4	87	0.00
14	T	Allyl chloride	0.926	0.880	5.0	78	0.00
15	T	Acrylonitrile	0.336	0.339	-0.9	82	-0.01
16	T	Acetone	0.317	0.342	-7.9	92	-0.01
17	T	Carbon Disulfide	1.120	0.987	11.9	73	0.00
18	T	Methyl Acetate	0.925	0.865	6.5	79	0.00
19	T	Methyl tert-butyl Ether	2.037	1.935	5.0	78	-0.01
20	T	Methylene Chloride	0.682	0.647	5.1	82	0.00
21	T	trans-1,2-Dichloroethene	0.566	0.539	4.8	81	0.00
22	T	Diisopropyl ether	1.915	1.835	4.2	79	0.00
23	T	Vinyl Acetate	1.582	1.570	0.8	78	0.00
24	P	1,1-Dichloroethane	1.101	1.048	4.8	80	0.00
25	T	2-Butanone	0.462	0.468	-1.3	82	-0.01
26	T	2,2-Dichloropropane	0.901	0.859	4.7	81	0.00
27	T	cis-1,2-Dichloroethene	0.723	0.730	-1.0	83	0.00
28	T	Bromochloromethane	0.524	0.514	1.9	85	0.00
29	T	Tetrahydrofuran	0.300	0.285	5.0	77	0.00
30	C	Chloroform	1.154	1.122	2.8#	81	-0.01
31	T	Cyclohexane	0.842	0.760	9.7	76	0.00
32	T	1,1,1-Trichloroethane	0.969	0.877	9.5	75	0.00
33	S	1,2-Dichloroethane-d4	0.797	0.754	5.4	81	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
35	S	Dibromofluoromethane	0.339	0.361	-6.5	90	0.00
36	T	1,1-Dichloropropene	0.402	0.360	10.4	78	0.00
37	T	Ethyl Acetate	0.488	0.457	6.4	76	0.00
38	T	Carbon Tetrachloride	0.444	0.400	9.9	75	0.00
39	T	Methylcyclohexane	0.499	0.467	6.4	77	0.00
40	TM	Benzene	1.341	1.290	3.8	80	0.00
41	T	Methacrylonitrile	0.256	0.256	0.0	79	0.00
42	TM	1,2-Dichloroethane	0.482	0.455	5.6	77	0.00
43	T	Isopropyl Acetate	0.807	0.777	3.7	78	0.00
44	TM	Trichloroethene	0.333	0.332	0.3	82	0.00
45	C	1,2-Dichloropropane	0.330	0.327	0.9#	81	0.00
46	T	Dibromomethane	0.254	0.248	2.4	80	0.00
47	T	Bromodichloromethane	0.446	0.454	-1.8	80	0.00
48	T	Methyl methacrylate	0.383	0.368	3.9	76	0.00

Sample Results: **VX043637.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043637.D
Acq On : 31 Oct 2024 09:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Nov 01 00:46:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.008	0.008	0.0	81	-0.01
50	S	Toluene-d8	1.174	1.249	-6.4	89	0.00
51	T	4-Methyl-2-Pentanone	0.492	0.494	-0.4	79	0.00
52	CM	Toluene	0.813	0.811	0.2#	81	0.00
53	T	t-1,3-Dichloropropene	0.479	0.492	-2.7	81	0.00
54	T	cis-1,3-Dichloropropene	0.510	0.537	-5.3	83	0.00
55	T	1,1,2-Trichloroethane	0.339	0.354	-4.4	83	0.00
56	T	Ethyl methacrylate	0.550	0.567	-3.1	80	0.00
57	T	1,3-Dichloropropane	0.563	0.577	-2.5	82	0.00
58	T	2-Chloroethyl Vinyl ether	0.266	0.260	2.3	81	0.00
59	T	2-Hexanone	0.374	0.387	-3.5	81	0.00
60	T	Dibromochloromethane	0.335	0.368	-9.9	84	0.00
61	T	1,2-Dibromoethane	0.351	0.360	-2.6	82	0.00
62	S	4-Bromofluorobenzene	0.435	0.486	-11.7	92	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
64	T	Tetrachloroethene	0.314	0.300	4.5	84	0.00
65	PM	Chlorobenzene	1.076	1.062	1.3	85	0.00
66	T	1,1,1,2-Tetrachloroethane	0.351	0.355	-1.1	82	0.00
67	C	Ethyl Benzene	1.754	1.678	4.3#	82	0.00
68	T	m/p-Xylenes	0.671	0.659	1.8	83	0.00
69	T	o-Xylene	0.674	0.678	-0.6	85	0.00
70	T	Styrene	1.120	1.182	-5.5	86	0.00
71	P	Bromoform	0.253	0.264	-4.3	83	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
73	T	Isopropylbenzene	3.542	3.215	9.2	81	0.00
74	T	N-amyl acetate	1.725	1.573	8.8	80	0.00
75	P	1,1,2,2-Tetrachloroethane	1.274	1.197	6.0	83	0.00
76	T	1,2,3-Trichloropropane	1.069	0.993	7.1	83	0.00
77	T	Bromobenzene	0.915	0.893	2.4	87	0.00
78	T	n-propylbenzene	3.862	3.612	6.5	81	0.00
79	T	2-Chlorotoluene	2.561	2.373	7.3	85	0.00
80	T	1,3,5-Trimethylbenzene	2.953	2.810	4.8	83	0.00
81	T	trans-1,4-Dichloro-2-butene	0.389	0.382	1.8	82	0.00
82	T	4-Chlorotoluene	2.874	2.758	4.0	85	0.00
83	T	tert-Butylbenzene	3.003	2.853	5.0	84	0.00
84	T	1,2,4-Trimethylbenzene	3.010	2.987	0.8	86	0.00
85	T	sec-Butylbenzene	3.520	3.318	5.7	82	0.00
86	T	p-Isopropyltoluene	2.992	2.908	2.8	84	0.00
87	T	1,3-Dichlorobenzene	1.639	1.663	-1.5	91	0.00
88	T	1,4-Dichlorobenzene	1.699	1.684	0.9	91	0.00
89	T	n-Butylbenzene	2.438	2.453	-0.6	84	0.00
90	T	Hexachloroethane	0.486	0.471	3.1	81	0.00
91	T	1,2-Dichlorobenzene	1.676	1.694	-1.1	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.260	0.229	11.9	73	0.00
93	T	1,2,4-Trichlorobenzene	1.017	1.072	-5.4	89	0.00
94	T	Hexachlorobutadiene	0.375	0.362	3.5	87	0.00
95	T	Naphthalene	3.893	3.848	1.2	84	0.00

Sample Results: **VX043637.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043637.D
Acq On : 31 Oct 2024 09:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Nov 01 00:46:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.073	1.066	0.7	87	0.00

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

Sample Results: **VX043637.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043637.D
Acq On : 31 Oct 2024 09:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Nov 01 00:46:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	84	0.00
2	T	Dichlorodifluoromethane	50.000	40.754	18.5	72	0.00
3	P	Chloromethane	50.000	41.468	17.1	73	0.00
4	C	Vinyl Chloride	50.000	43.270	13.5#	73	0.00
5	T	Bromomethane	50.000	47.374	5.3	79	0.00
6	T	Chloroethane	50.000	49.929	0.1	83	0.00
7	T	Trichlorofluoromethane	50.000	47.841	4.3	80	0.01
8	T	Diethyl Ether	50.000	48.605	2.8	82	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.241	3.5	81	0.00
10	T	Methyl Iodide	50.000	51.315	-2.6	84	0.00
11	T	Tert butyl alcohol	250.000	266.372	-6.5	86	-0.05
12	CM	1,1-Dichloroethene	50.000	46.580	6.8#	78	0.00
13	T	Acrolein	250.000	240.054	4.0	87	0.00
14	T	Allyl chloride	50.000	47.499	5.0	78	0.00
15	T	Acrylonitrile	250.000	251.929	-0.8	82	-0.01
16	T	Acetone	250.000	270.215	-8.1	92	-0.01
17	T	Carbon Disulfide	50.000	44.054	11.9	73	0.00
18	T	Methyl Acetate	50.000	46.717	6.6	79	0.00
19	T	Methyl tert-butyl Ether	50.000	47.508	5.0	78	-0.01
20	T	Methylene Chloride	50.000	47.409	5.2	82	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.648	4.7	81	0.00
22	T	Diisopropyl ether	50.000	47.916	4.2	79	0.00
23	T	Vinyl Acetate	250.000	248.133	0.7	78	0.00
24	P	1,1-Dichloroethane	50.000	47.635	4.7	80	0.00
25	T	2-Butanone	250.000	253.499	-1.4	82	-0.01
26	T	2,2-Dichloropropane	50.000	47.664	4.7	81	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.479	-1.0	83	0.00
28	T	Bromochloromethane	50.000	49.057	1.9	85	0.00
29	T	Tetrahydrofuran	250.000	237.510	5.0	77	0.00
30	C	Chloroform	50.000	48.630	2.7#	81	-0.01
31	T	Cyclohexane	50.000	45.160	9.7	76	0.00
32	T	1,1,1-Trichloroethane	50.000	45.286	9.4	75	0.00
33	S	1,2-Dichloroethane-d4	50.000	47.310	5.4	81	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	84	0.00
35	S	Dibromofluoromethane	50.000	53.261	-6.5	90	0.00
36	T	1,1-Dichloropropene	50.000	44.773	10.5	78	0.00
37	T	Ethyl Acetate	50.000	46.865	6.3	76	0.00
38	T	Carbon Tetrachloride	50.000	45.007	10.0	75	0.00
39	T	Methylcyclohexane	50.000	46.759	6.5	77	0.00
40	TM	Benzene	50.000	48.096	3.8	80	0.00
41	T	Methacrylonitrile	50.000	49.963	0.1	79	0.00
42	TM	1,2-Dichloroethane	50.000	47.144	5.7	77	0.00
43	T	Isopropyl Acetate	50.000	48.161	3.7	78	0.00
44	TM	Trichloroethene	50.000	49.797	0.4	82	0.00
45	C	1,2-Dichloropropane	50.000	49.525	1.0#	81	0.00
46	T	Dibromomethane	50.000	48.759	2.5	80	0.00
47	T	Bromodichloromethane	50.000	50.887	-1.8	80	0.00
48	T	Methyl methacrylate	50.000	48.029	3.9	76	0.00

Sample Results: **VX043637.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043637.D
Acq On : 31 Oct 2024 09:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Nov 01 00:46:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1013.788	-1.4	81	-0.01
50	S	Toluene-d8	50.000	53.189	-6.4	89	0.00
51	T	4-Methyl-2-Pentanone	250.000	250.953	-0.4	79	0.00
52	CM	Toluene	50.000	49.832	0.3#	81	0.00
53	T	t-1,3-Dichloropropene	50.000	51.365	-2.7	81	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.578	-5.2	83	0.00
55	T	1,1,2-Trichloroethane	50.000	52.209	-4.4	83	0.00
56	T	Ethyl methacrylate	50.000	51.512	-3.0	80	0.00
57	T	1,3-Dichloropropane	50.000	51.223	-2.4	82	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	243.712	2.5	81	0.00
59	T	2-Hexanone	250.000	258.620	-3.4	81	0.00
60	T	Dibromochloromethane	50.000	54.882	-9.8	84	0.00
61	T	1,2-Dibromoethane	50.000	51.224	-2.4	82	0.00
62	S	4-Bromofluorobenzene	50.000	55.866	-11.7	92	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	86	0.00
64	T	Tetrachloroethene	50.000	47.764	4.5	84	0.00
65	PM	Chlorobenzene	50.000	49.365	1.3	85	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.518	-1.0	82	0.00
67	C	Ethyl Benzene	50.000	47.820	4.4#	82	0.00
68	T	m/p-Xylenes	100.000	98.314	1.7	83	0.00
69	T	o-Xylene	50.000	50.322	-0.6	85	0.00
70	T	Styrene	50.000	52.739	-5.5	86	0.00
71	P	Bromoform	50.000	52.214	-4.4	83	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	90	0.00
73	T	Isopropylbenzene	50.000	45.392	9.2	81	0.00
74	T	N-amyl acetate	50.000	45.576	8.8	80	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	46.981	6.0	83	0.00
76	T	1,2,3-Trichloropropane	50.000	46.444	7.1	83	0.00
77	T	Bromobenzene	50.000	48.829	2.3	87	0.00
78	T	n-propylbenzene	50.000	46.766	6.5	81	0.00
79	T	2-Chlorotoluene	50.000	46.335	7.3	85	0.00
80	T	1,3,5-Trimethylbenzene	50.000	47.569	4.9	83	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.124	1.8	82	0.00
82	T	4-Chlorotoluene	50.000	47.976	4.0	85	0.00
83	T	tert-Butylbenzene	50.000	47.490	5.0	84	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.626	0.7	86	0.00
85	T	sec-Butylbenzene	50.000	47.128	5.7	82	0.00
86	T	p-Isopropyltoluene	50.000	48.596	2.8	84	0.00
87	T	1,3-Dichlorobenzene	50.000	50.718	-1.4	91	0.00
88	T	1,4-Dichlorobenzene	50.000	49.583	0.8	91	0.00
89	T	n-Butylbenzene	50.000	50.295	-0.6	84	0.00
90	T	Hexachloroethane	50.000	48.496	3.0	81	0.00
91	T	1,2-Dichlorobenzene	50.000	50.543	-1.1	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	44.139	11.7	73	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.665	-5.3	89	0.00
94	T	Hexachlorobutadiene	50.000	48.310	3.4	87	0.00
95	T	Naphthalene	50.000	49.411	1.2	84	0.00

Sample Results: **VX043637.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043637.D
Acq On : 31 Oct 2024 09:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Nov 01 00:46:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	49.709	0.6	87	0.00

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

QC SAMPLE DATA

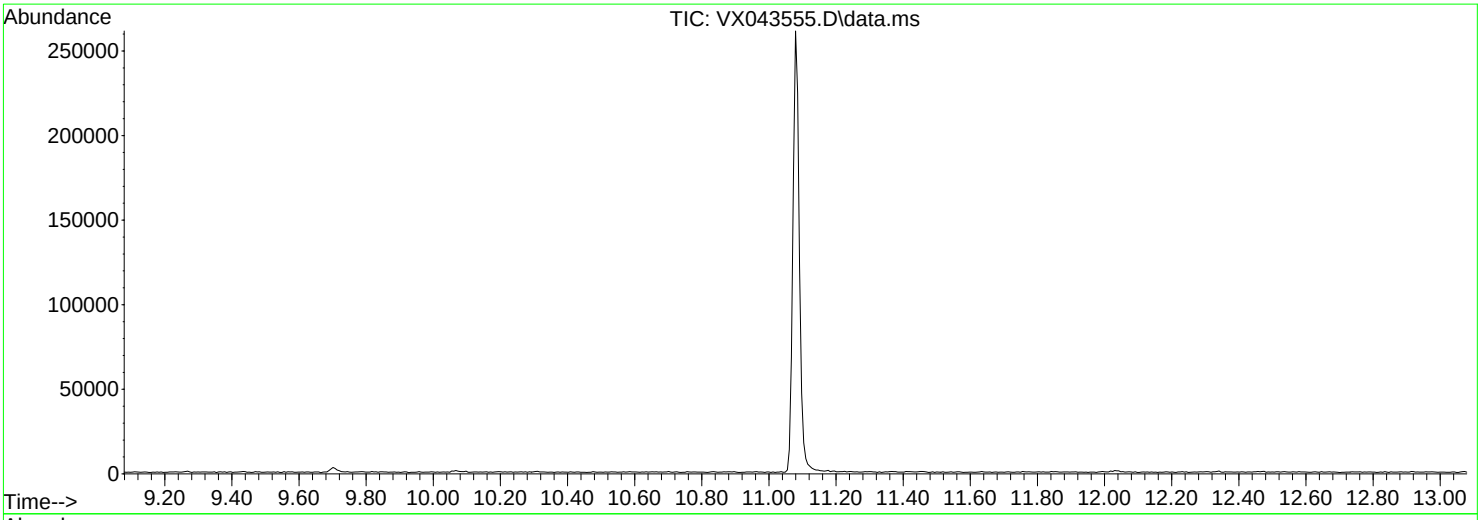
Sample Results: **VX043555.D**

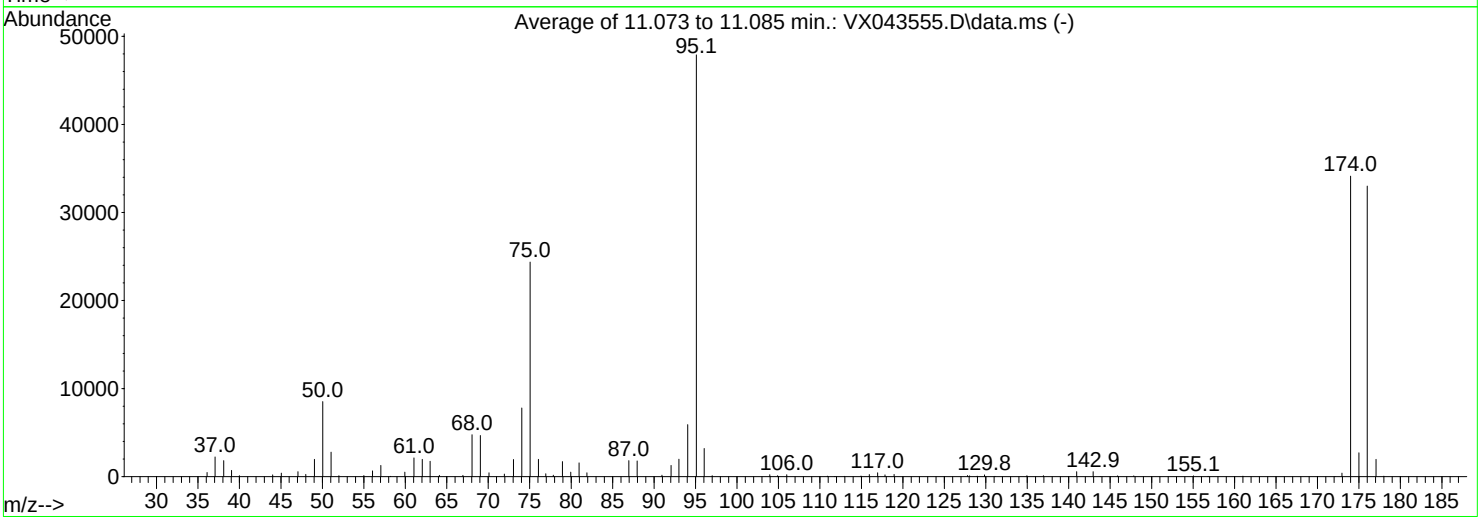
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043555.D
Acq On : 28 Oct 2024 10:09
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Title : SW846 8260
Last Update : Mon Oct 28 13:41:34 2024





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	8521	PASS
75	95	30	60	50.9	24360	PASS
95	95	100	100	100.0	47901	PASS
96	95	5	9	6.7	3204	PASS
173	174	0.00	2	1.2	395	PASS
174	95	50	100	71.2	34123	PASS
175	174	5	9	7.9	2705	PASS
176	174	95	101	96.7	32992	PASS
177	176	5	9	6.0	1964	PASS

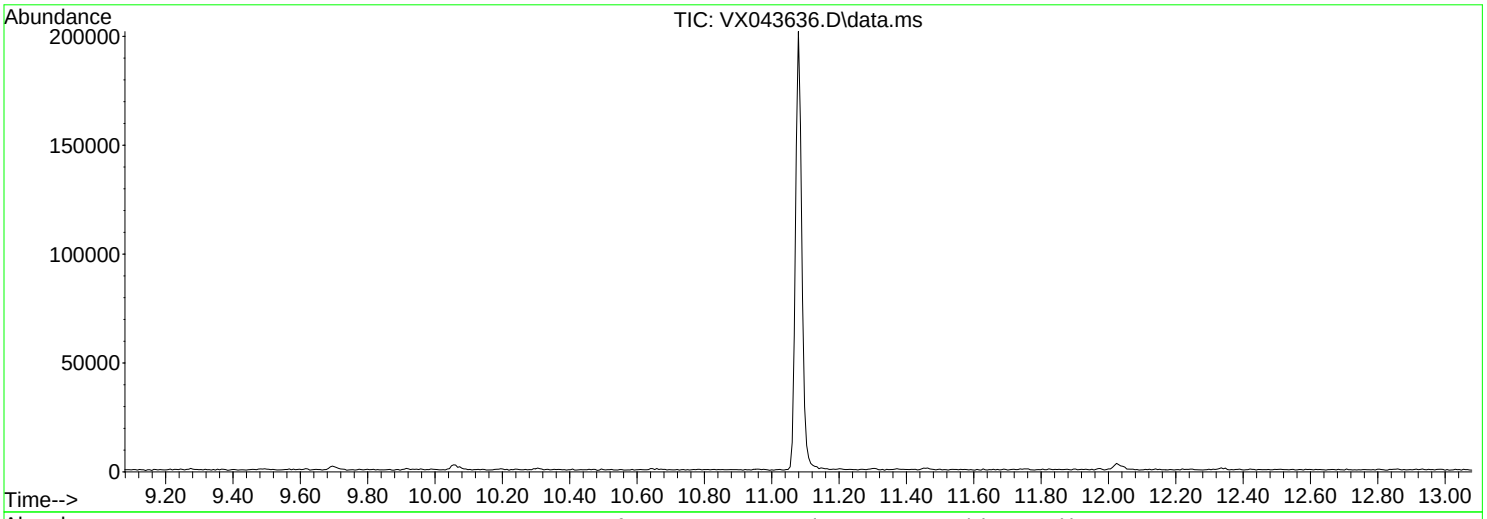
Sample Results: **VX043636.D**

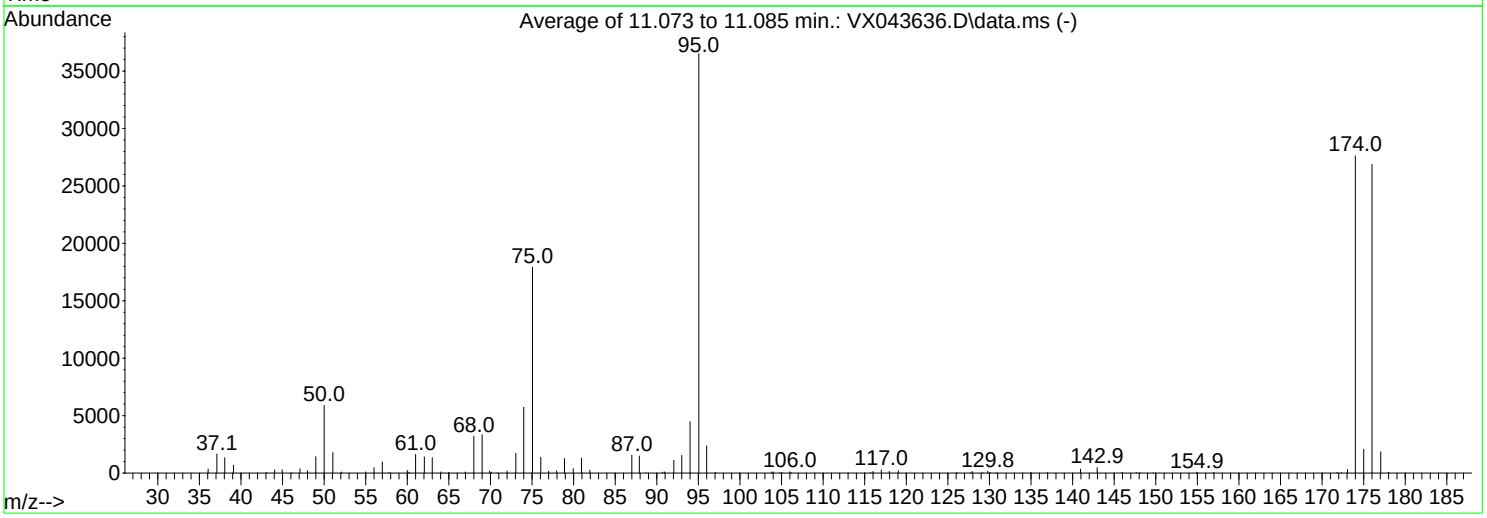
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043636.D
Acq On : 31 Oct 2024 08:27
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Title : SW846 8260
Last Update : Mon Oct 28 13:41:34 2024





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	5893	PASS
75	95	30	60	49.1	17923	PASS
95	95	100	100	100.0	36509	PASS
96	95	5	9	6.5	2375	PASS
173	174	0.00	2	1.1	312	PASS
174	95	50	100	75.7	27632	PASS
175	174	5	9	7.5	2066	PASS
176	174	95	101	97.2	26872	PASS
177	176	5	9	6.9	1848	PASS

Raw Data: **VX043639.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VX1031WBL01	SDG No.:	P4646
Lab Sample ID:	VX1031WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043639.D	1		10/31/24 10:13	VX103124

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

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VX1031WBL01	SDG No.:	P4646
Lab Sample ID:	VX1031WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043639.D	1		10/31/24 10:13	VX103124

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	40.0		74 - 125	80%	SPK: 50
1868-53-7	Dibromofluoromethane	45.3		75 - 124	91%	SPK: 50
2037-26-5	Toluene-d8	48.5		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.2		77 - 121	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	146000	5.55			
540-36-3	1,4-Difluorobenzene	264000	6.757			
3114-55-4	Chlorobenzene-d5	222000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	95700	12.024			

Raw Data: **VX043639.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VX1031WBL01	SDG No.:	P4646
Lab Sample ID:	VX1031WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043639.D	1		10/31/24 10:13	VX103124

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_X\Data\VX103124\
Data File : VX043639.D
Acq On : 31 Oct 2024 10:13
Operator : JC/MD
Sample : VX1031WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBL01

Quant Time: Nov 01 00:47:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	145633	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	263897	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	221541	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	95694	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	92853	39.986	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	79.980%		
35) Dibromofluoromethane	5.379	113	81033	45.283	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	90.560%		
50) Toluene-d8	8.647	98	300250	48.470	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.940%		
62) 4-Bromofluorobenzene	11.079	95	101416	44.183	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	88.360%		
Target Compounds						Qvalue

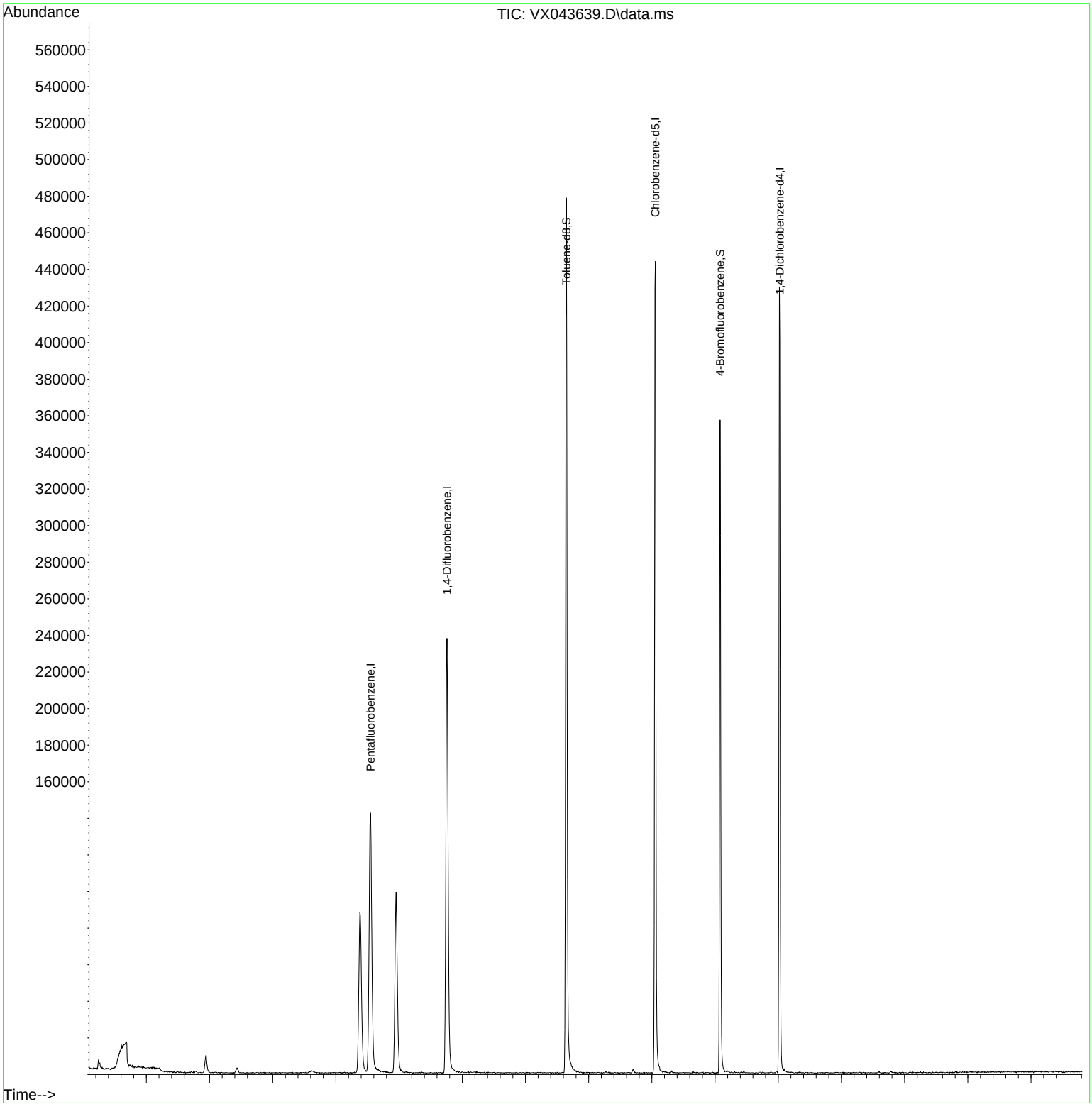
(#) = qualifier out of range (m) = manual integration (+) = signals summed

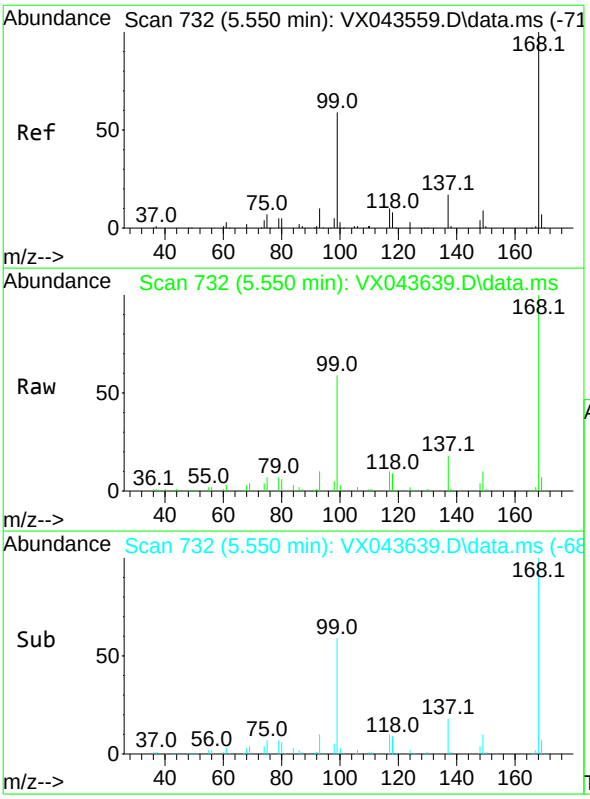
Sample Results: **VX043639.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043639.D
Acq On : 31 Oct 2024 10:13
Operator : JC/MD
Sample : VX1031WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBL01

Quant Time: Nov 01 00:47:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration



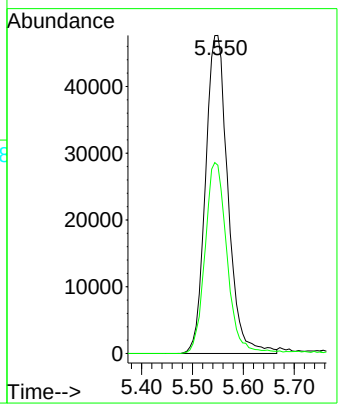


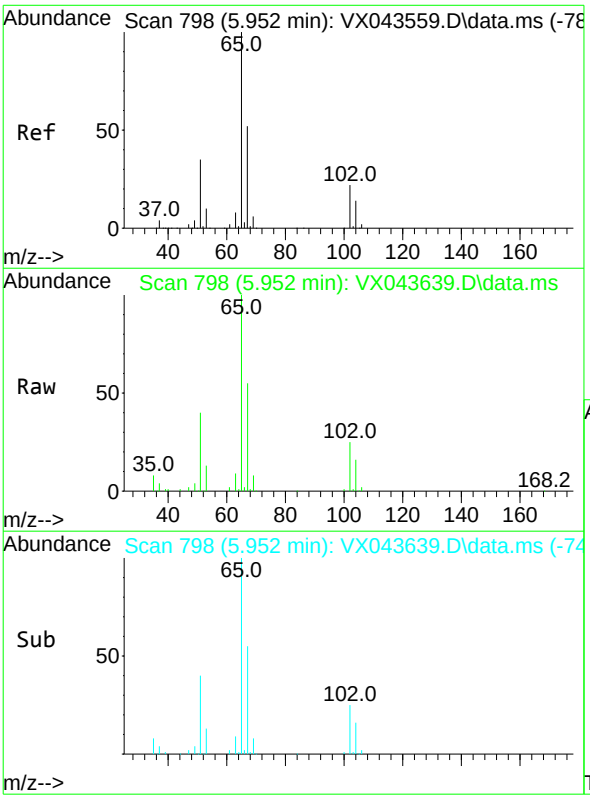
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX043639.D
Acq: 31 Oct 2024 10:13

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBL01

Tgt Ion:168 Resp: 145633

Ion	Ratio	Lower	Upper
168	100		
99	59.2	52.6	78.8

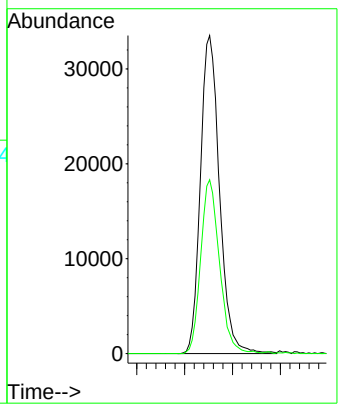


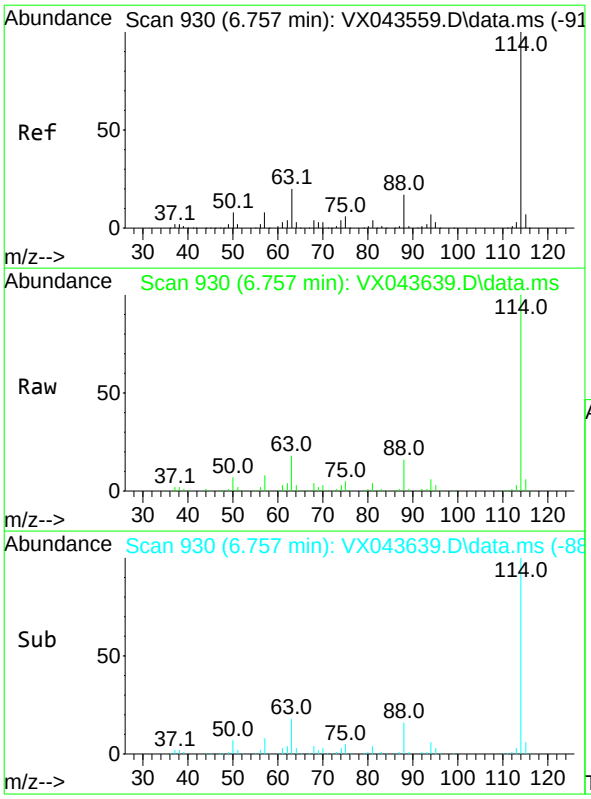


#33
1,2-Dichloroethane-d4
Concen: 39.986 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX043639.D
Acq: 31 Oct 2024 10:13

Tgt Ion: 65 Resp: 92853

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	103.4



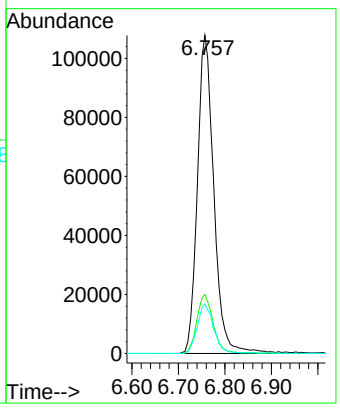


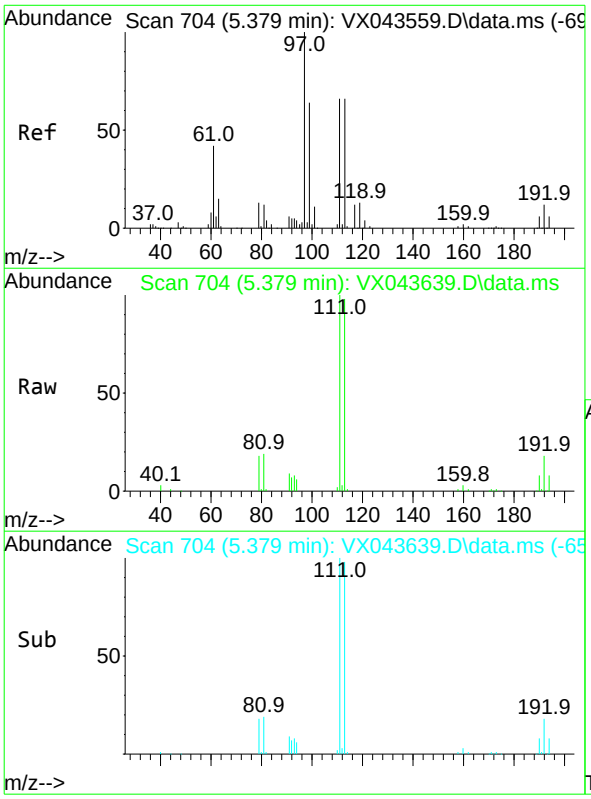
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. 0.000 min
Lab File: VX043639.D
Acq: 31 Oct 2024 10:13

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBL01

Tgt Ion:114 Resp: 263897

Ion	Ratio	Lower	Upper
114	100		
63	18.5	0.0	41.2
88	15.6	0.0	34.0

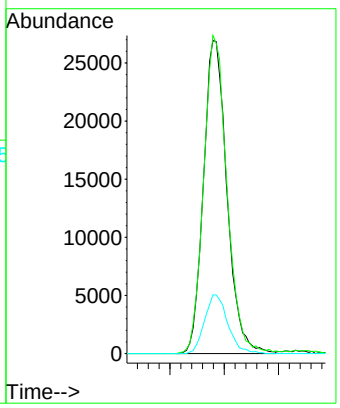


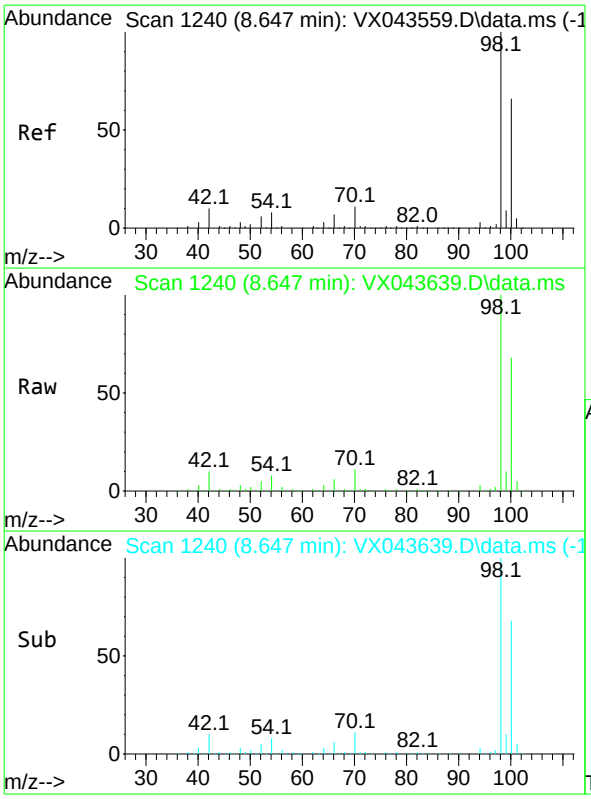


#35
Dibromofluoromethane
Concen: 45.283 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX043639.D
Acq: 31 Oct 2024 10:13

Tgt Ion:113 Resp: 81033

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.4	122.0
192	18.5	14.1	21.1



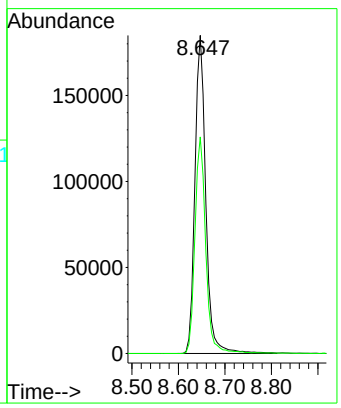


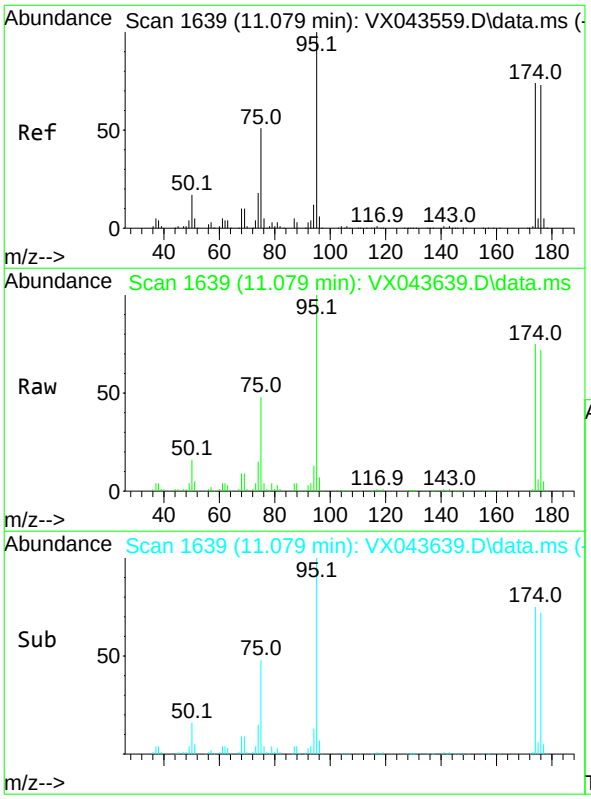
#50
Toluene-d8
Concen: 48.470 ug/l
RT: 8.647 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX043639.D
Acq: 31 Oct 2024 10:13

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBL01

Tgt Ion: 98 Resp: 300250

Ion	Ratio	Lower	Upper
98	100		
100	68.0	53.4	80.2

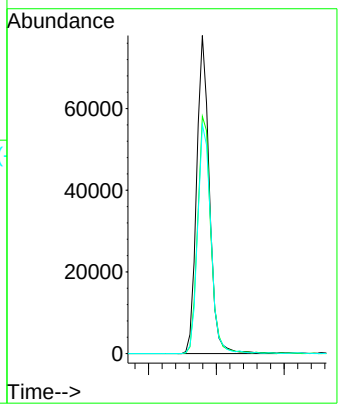


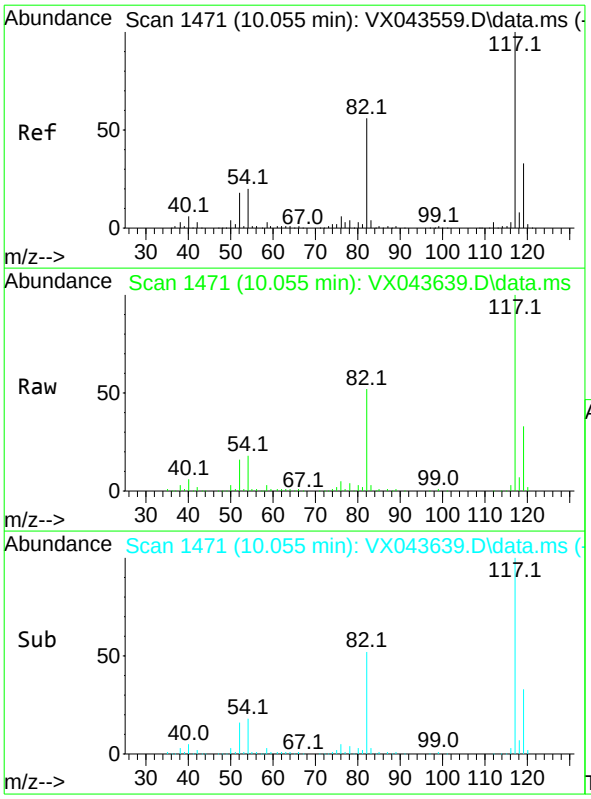


#62
4-Bromofluorobenzene
Concen: 44.183 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX043639.D
Acq: 31 Oct 2024 10:13

Tgt Ion: 95 Resp: 101416

Ion	Ratio	Lower	Upper
95	100		
174	77.0	0.0	146.6
176	74.9	0.0	139.6



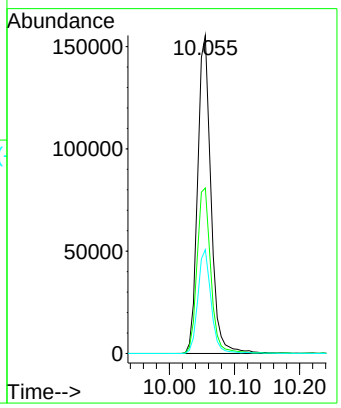


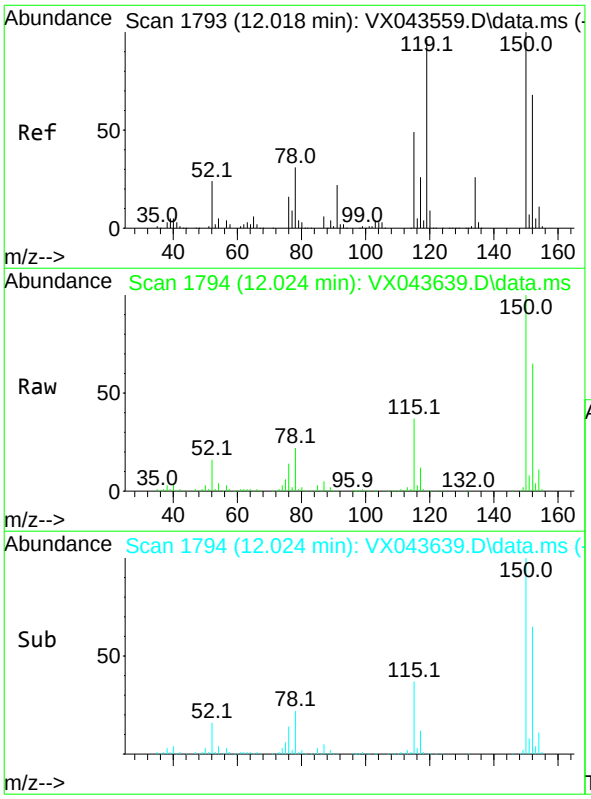
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX043639.D
Acq: 31 Oct 2024 10:13

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBL01

Tgt Ion:117 Resp: 221541

Ion	Ratio	Lower	Upper
117	100		
82	52.0	42.1	63.1
119	32.7	25.4	38.2

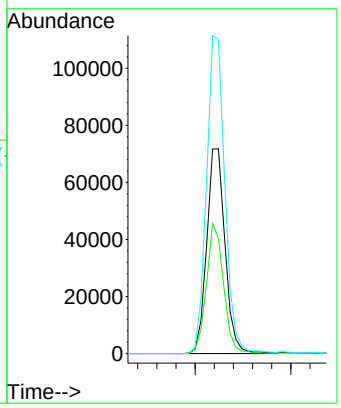




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX043639.D
Acq: 31 Oct 2024 10:13

Tgt Ion:152 Resp: 95694

Ion	Ratio	Lower	Upper
152	100		
115	59.3	42.9	128.7
150	155.4	0.0	343.6



Sample Results: **VX043639.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043639.D
Acq On : 31 Oct 2024 10:13
Operator : JC/MD
Sample : VX1031WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBL01

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_X\Method\82X102824W.M
Title : SW846 8260

Signal : TIC: VX043639.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.605	65	85	86	rBV5	12402	42702	5.47%	1.056%
2	2.947	296	305	312	rBV2	9395	21695	2.78%	0.536%
3	5.379	693	704	720	rBV	87752	261191	33.44%	6.458%
4	5.544	720	731	747	rBV	141376	417649	53.47%	10.326%
5	5.952	788	798	810	rBV	98725	260016	33.29%	6.429%
6	6.757	921	930	952	rBV	237583	583049	74.64%	14.415%
7	8.647	1233	1240	1258	rBV	478212	781102	100.00%	19.312%
8	10.055	1464	1471	1484	rBV	443726	648766	83.06%	16.040%
9	11.079	1634	1639	1651	rBV	356972	470043	60.18%	11.621%
10	12.018	1788	1793	1804	rBV	429436	558499	71.50%	13.808%

Sum of corrected areas: 4044712

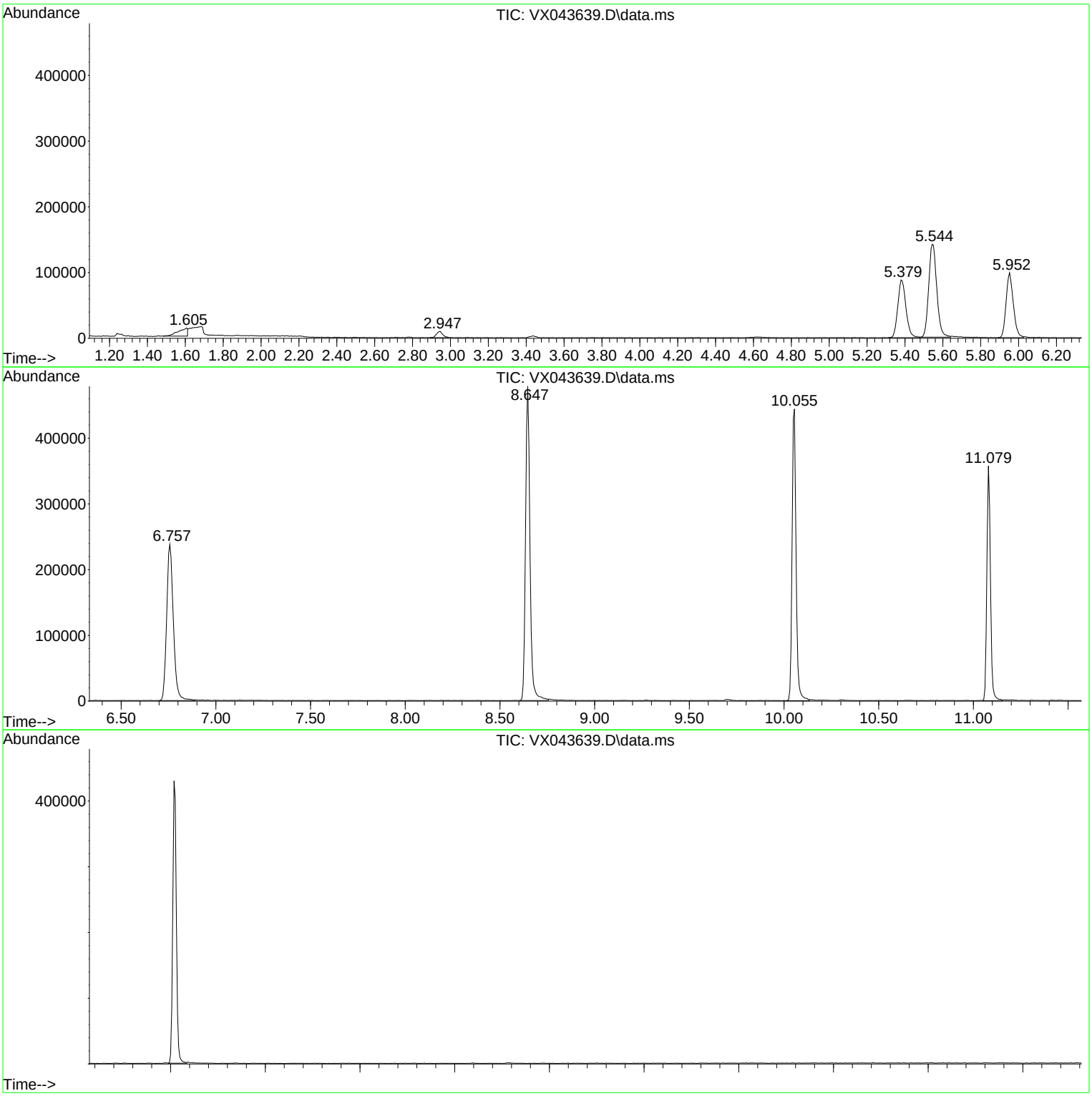
Sample Results: **VX043639.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043639.D
Acq On : 31 Oct 2024 10:13
Operator : JC/MD
Sample : VX1031WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VX043639.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043639.D
Acq On : 31 Oct 2024 10:13
Operator : JC/MD
Sample : VX1031WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.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_X\Data\VX103124\
Data File : VX043639.D
Acq On : 31 Oct 2024 10:13
Operator : JC/MD
Sample : VX1031WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

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

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

Raw Data: **VX043640.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VX1031WBS01	SDG No.:	P4646
Lab Sample ID:	VX1031WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043640.D	1		10/31/24 10:50	VX103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.1		0.21	1.00	ug/L
74-87-3	Chloromethane	15.8		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	17.1		0.34	1.00	ug/L
74-83-9	Bromomethane	17.1		1.40	5.00	ug/L
75-00-3	Chloroethane	17.5		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.7		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.7		0.26	1.00	ug/L
67-64-1	Acetone	81.9		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	15.6		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.2		0.16	1.00	ug/L
79-20-9	Methyl Acetate	16.7		0.60	1.00	ug/L
75-09-2	Methylene Chloride	17.0		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.8		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.7		1.60	5.00	ug/L
78-93-3	2-Butanone	83.4		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.4		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	16.3		0.18	1.00	ug/L
67-66-3	Chloroform	18.0		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.6		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	20.5		0.19	1.00	ug/L
71-43-2	Benzene	19.3		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	17.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.2		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.3		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	18.1		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	91.1		0.75	5.00	ug/L
108-88-3	Toluene	20.3		0.18	1.00	ug/L

Raw Data: **VX043640.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VX1031WBS01	SDG No.:	P4646
Lab Sample ID:	VX1031WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043640.D	1		10/31/24 10:50	VX103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.0		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.9		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.5		0.21	1.00	ug/L
591-78-6	2-Hexanone	90.3		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	18.4		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.9		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	21.6		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.8		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.9		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	41.5		0.31	2.00	ug/L
95-47-6	o-Xylene	20.8		0.14	1.00	ug/L
100-42-5	Styrene	20.7		0.16	1.00	ug/L
75-25-2	Bromoform	18.2		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	20.7		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.8		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.5		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.9		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	16.7		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.9		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.9		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	40.2		74 - 125	80%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		75 - 124	94%	SPK: 50
2037-26-5	Toluene-d8	49.3		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		77 - 121	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	192000	5.537			
540-36-3	1,4-Difluorobenzene	329000	6.757			
3114-55-4	Chlorobenzene-d5	282000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	135000	12.018			

Raw Data: **VX043640.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VX1031WBS01	SDG No.:	P4646
Lab Sample ID:	VX1031WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043640.D	1		10/31/24 10:50	VX103124

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_X\Data\VX103124\
Data File : VX043640.D
Acq On : 31 Oct 2024 10:50
Operator : JC/MD
Sample : VX1031WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 00:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	192204	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.757	114	329446	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	282193	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	135150	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	123220	40.206	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 80.420%			
35) Dibromofluoromethane	5.373	113	105305	47.138	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.280%			
50) Toluene-d8	8.646	98	381198	49.294	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.580%			
62) 4-Bromofluorobenzene	11.079	95	136906	47.777	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	35233	17.141	ug/l	98
3) Chloromethane	1.294	50	41630	15.844	ug/l	100
4) Vinyl Chloride	1.373	62	41739	17.116	ug/l	100
5) Bromomethane	1.593	94	16980	17.080	ug/l	98
6) Chloroethane	1.660	64	15005	17.465	ug/l	92
7) Trichlorofluoromethane	1.867	101	58641	19.684	ug/l	97
8) Diethyl Ether	2.129	74	24207	17.587	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.312	101	40091	19.899	ug/l	96
10) Methyl Iodide	2.440	142	54422	18.697	ug/l	96
11) Tert butyl alcohol	3.001	59	50798m	88.803	ug/l	
12) 1,1-Dichloroethene	2.306	96	38431	18.666	ug/l	96
13) Acrolein	2.239	56	32235	72.058	ug/l	99
14) Allyl chloride	2.654	41	61042	17.142	ug/l	96
15) Acrylonitrile	3.062	53	110002	85.173	ug/l	99
16) Acetone	2.385	43	99642	81.874	ug/l	98
17) Carbon Disulfide	2.495	76	67031	15.570	ug/l	97
18) Methyl Acetate	2.702	43	59322	16.678	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	135014	17.243	ug/l	100
20) Methylene Chloride	2.782	84	44697	17.041	ug/l	93
21) trans-1,2-Dichloroethene	3.080	96	40614	18.672	ug/l	91
22) Diisopropyl ether	3.757	45	131620	17.882	ug/l	96
23) Vinyl Acetate	3.714	43	525668	86.444	ug/l	98
24) 1,1-Dichloroethane	3.599	63	75168	17.768	ug/l	97
25) 2-Butanone	4.562	43	148043	83.391	ug/l	93
26) 2,2-Dichloropropane	4.464	77	61702	17.818	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	49880	17.952	ug/l	98
28) Bromochloromethane	4.891	49	32847	16.321	ug/l	96
29) Tetrahydrofuran	5.007	42	96899	83.990	ug/l	96
30) Chloroform	5.086	83	79698	17.971	ug/l	99
31) Cyclohexane	5.458	56	60628	18.737	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	69088	18.556	ug/l	98
36) 1,1-Dichloropropene	5.684	75	49886	18.832	ug/l	96
37) Ethyl Acetate	4.714	43	56716	17.636	ug/l	97
38) Carbon Tetrachloride	5.665	117	56788	19.402	ug/l	98
39) Methylcyclohexane	7.372	83	67255	20.450	ug/l	100
40) Benzene	6.031	78	170292	19.270	ug/l	97

Sample Results: **VX043640.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043640.D
Acq On : 31 Oct 2024 10:50
Operator : JC/MD
Sample : VX1031WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 00:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.915	41	29794	17.650 ug/l	93
42) 1,2-Dichloroethane	6.080	62	56632	17.826 ug/l	98
43) Isopropyl Acetate	6.336	43	92309	17.356 ug/l	97
44) Trichloroethene	7.122	130	44293	20.176 ug/l	88
45) 1,2-Dichloropropane	7.421	63	42032	19.317 ug/l	97
46) Dibromomethane	7.580	93	30251	18.056 ug/l	93
47) Bromodichloromethane	7.817	83	53295	18.133 ug/l	96
48) Methyl methacrylate	7.695	41	43445	17.230 ug/l	93
49) 1,4-Dioxane	7.665	88	20945	404.305 ug/l #	83
51) 4-Methyl-2-Pentanone	8.573	43	295318	91.104 ug/l	98
52) Toluene	8.714	92	109038	20.345 ug/l	97
53) t-1,3-Dichloropropene	8.976	75	56895	18.023 ug/l	97
54) cis-1,3-Dichloropropene	8.360	75	63622	18.915 ug/l	93
55) 1,1,2-Trichloroethane	9.146	97	43502	19.500 ug/l	98
56) Ethyl methacrylate	9.116	69	66438	18.329 ug/l	92
57) 1,3-Dichloropropane	9.305	76	71820	19.357 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	167234	95.260 ug/l	96
59) 2-Hexanone	9.433	43	222209	90.257 ug/l	98
60) Dibromochloromethane	9.518	129	40637	18.396 ug/l	98
61) 1,2-Dibromoethane	9.610	107	43874	18.946 ug/l	98
64) Tetrachloroethene	9.268	164	38282	21.569 ug/l	90
65) Chlorobenzene	10.079	112	120135	19.788 ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.158	131	39999	20.170 ug/l	99
67) Ethyl Benzene	10.195	91	197455	19.946 ug/l	99
68) m/p-Xylenes	10.299	106	157288	41.546 ug/l	93
69) o-Xylene	10.640	106	79298	20.847 ug/l	93
70) Styrene	10.652	104	130932	20.710 ug/l	97
71) Bromoform	10.799	173	25997	18.233 ug/l #	98
73) Isopropylbenzene	10.963	105	198289	20.712 ug/l	100
74) N-amyl acetate	10.841	43	82166	17.618 ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	64565	18.755 ug/l	100
76) 1,2,3-Trichloropropane	11.237	75	52661m	18.224 ug/l	
77) Bromobenzene	11.195	156	49826	20.156 ug/l	95
78) n-propylbenzene	11.305	91	219700	21.048 ug/l	99
79) 2-Chlorotoluene	11.365	91	137665	19.889 ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	165543	20.739 ug/l	97
81) trans-1,4-Dichloro-2-b...	11.018	75	18247	17.371 ug/l	97
82) 4-Chlorotoluene	11.451	91	153981	19.820 ug/l	95
83) tert-Butylbenzene	11.713	119	169409	20.868 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	168057	20.659 ug/l	98
85) sec-Butylbenzene	11.890	105	207280	21.783 ug/l	99
86) p-Isopropyltoluene	12.006	119	174922	21.626 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	90672	20.464 ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	91148	19.853 ug/l	99
89) n-Butylbenzene	12.329	91	143091	21.711 ug/l	99
90) Hexachloroethane	12.536	117	25649	19.522 ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	92543	20.426 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.944	75	11709	16.684 ug/l	89
93) 1,2,4-Trichlorobenzene	13.585	180	54704	19.892 ug/l	98
94) Hexachlorobutadiene	13.725	225	21998	21.695 ug/l	97
95) Naphthalene	13.774	128	202081	19.202 ug/l	100
96) 1,2,3-Trichlorobenzene	13.956	180	57706	19.901 ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043640.D
Acq On : 31 Oct 2024 10:50
Operator : JC/MD
Sample : VX1031WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 00:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

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

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

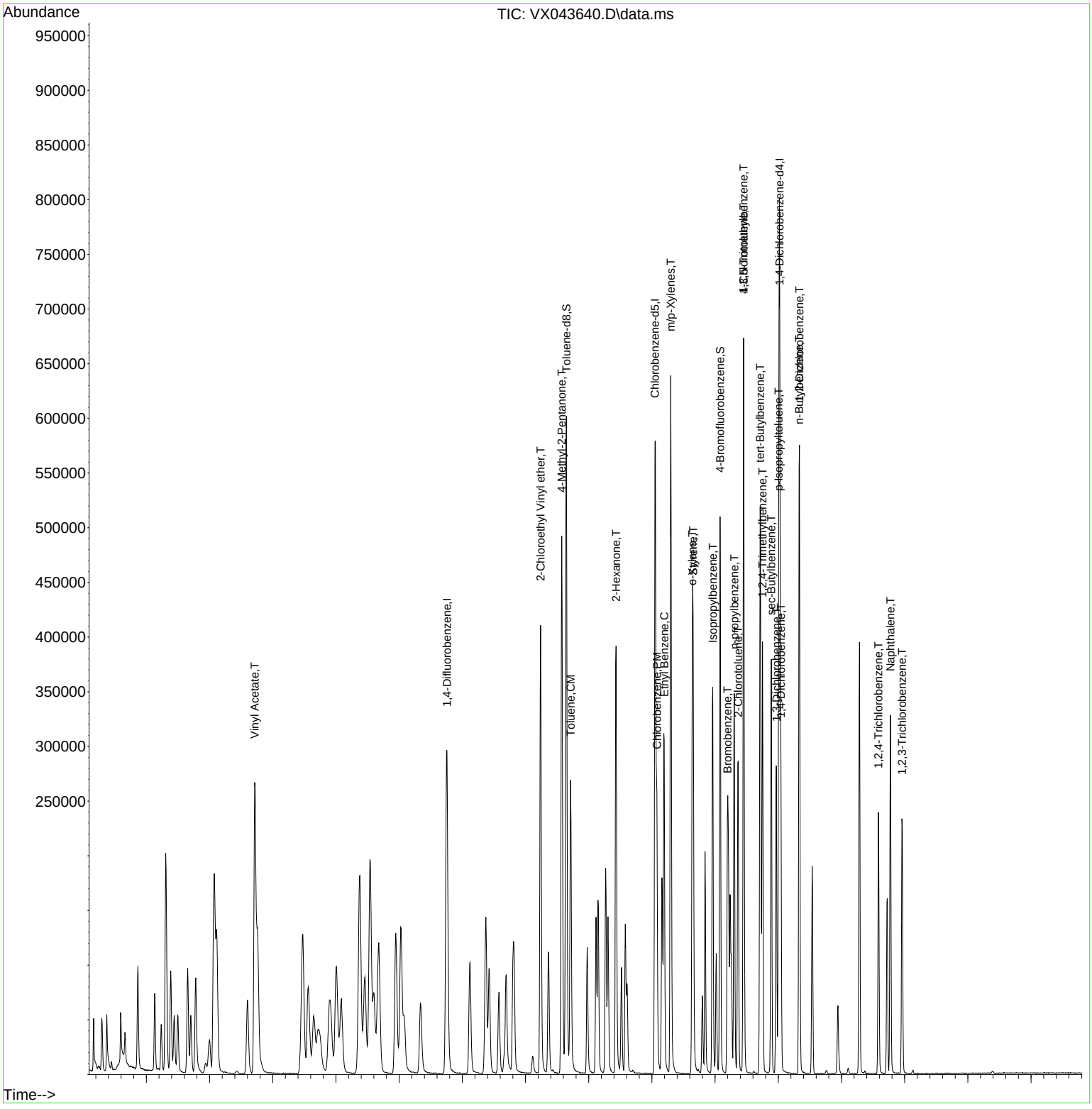
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043640.D
Acq On : 31 Oct 2024 10:50
Operator : JC/MD
Sample : VX1031WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 00:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Raw Data: **VX043641.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VX1031WBSD01	SDG No.:	P4646
Lab Sample ID:	VX1031WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043641.D	1		10/31/24 11:13	VX103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	16.4		0.21	1.00	ug/L
74-87-3	Chloromethane	15.2		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	17.2		0.34	1.00	ug/L
74-83-9	Bromomethane	17.6		1.40	5.00	ug/L
75-00-3	Chloroethane	18.8		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.2		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.2		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.3		0.26	1.00	ug/L
67-64-1	Acetone	86.1		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	15.9		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.0		0.16	1.00	ug/L
79-20-9	Methyl Acetate	17.6		0.60	1.00	ug/L
75-09-2	Methylene Chloride	17.6		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.4		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.3		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.2		1.60	5.00	ug/L
78-93-3	2-Butanone	89.4		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.6		0.25	1.00	ug/L
74-97-5	Bromochloromethane	16.7		0.18	1.00	ug/L
67-66-3	Chloroform	18.3		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.8		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	20.5		0.19	1.00	ug/L
71-43-2	Benzene	19.4		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.1		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.7		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	19.0		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	96.6		0.75	5.00	ug/L
108-88-3	Toluene	20.8		0.18	1.00	ug/L

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VX1031WBSD01	SDG No.:	P4646
Lab Sample ID:	VX1031WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043641.D	1		10/31/24 11:13	VX103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.6		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.7		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.0		0.21	1.00	ug/L
591-78-6	2-Hexanone	96.6		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	19.5		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.8		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	21.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	20.3		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	41.3		0.31	2.00	ug/L
95-47-6	o-Xylene	20.2		0.14	1.00	ug/L
100-42-5	Styrene	20.6		0.16	1.00	ug/L
75-25-2	Bromoform	18.8		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	20.5		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.9		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.3		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.2		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.5		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.1		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.2		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.9		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	40.8		74 - 125	82%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	49.8		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		77 - 121	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	182000	5.544			
540-36-3	1,4-Difluorobenzene	312000	6.757			
3114-55-4	Chlorobenzene-d5	269000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	129000	12.018			

Raw Data: **VX043641.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VX1031WBSD01	SDG No.:	P4646
Lab Sample ID:	VX1031WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043641.D	1		10/31/24 11:13	VX103124

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

Sample Results: **VX043641.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043641.D
Acq On : 31 Oct 2024 11:13
Operator : JC/MD
Sample : VX1031WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 02:59:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	182029	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	311670	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	268830	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	129133	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	118383	40.787	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 81.580%			
35) Dibromofluoromethane	5.385	113	101595	48.071	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.140%			
50) Toluene-d8	8.647	98	364387	49.808	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.620%			
62) 4-Bromofluorobenzene	11.079	95	132052	48.711	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	31971	16.423	ug/l	95
3) Chloromethane	1.294	50	37882	15.223	ug/l	100
4) Vinyl Chloride	1.374	62	39763	17.217	ug/l	97
5) Bromomethane	1.593	94	16585	17.615	ug/l	99
6) Chloroethane	1.660	64	15312	18.819	ug/l	93
7) Trichlorofluoromethane	1.868	101	56883	20.161	ug/l	98
8) Diethyl Ether	2.136	74	23978	18.394	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	38574	20.216	ug/l	98
10) Methyl Iodide	2.441	142	51550	18.700	ug/l	96
11) Tert butyl alcohol	3.001	59	51438m	94.948	ug/l	
12) 1,1-Dichloroethene	2.306	96	37706	19.338	ug/l	96
13) Acrolein	2.239	56	32571	76.879	ug/l	99
14) Allyl chloride	2.654	41	58833	17.445	ug/l	96
15) Acrylonitrile	3.069	53	110714	90.516	ug/l	100
16) Acetone	2.386	43	99280	86.136	ug/l	96
17) Carbon Disulfide	2.502	76	64850	15.905	ug/l	98
18) Methyl Acetate	2.709	43	59409	17.636	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	133551	18.010	ug/l	97
20) Methylene Chloride	2.782	84	43596	17.550	ug/l	94
21) trans-1,2-Dichloroethene	3.081	96	37943	18.419	ug/l	94
22) Diisopropyl ether	3.764	45	128260	18.399	ug/l	94
23) Vinyl Acetate	3.721	43	516584	89.699	ug/l	99
24) 1,1-Dichloroethane	3.605	63	73334	18.303	ug/l	98
25) 2-Butanone	4.568	43	150228	89.352	ug/l	95
26) 2,2-Dichloropropane	4.471	77	58625	17.875	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	49032	18.633	ug/l	96
28) Bromochloromethane	4.891	49	31846	16.708	ug/l	94
29) Tetrahydrofuran	5.007	42	96955	88.736	ug/l	96
30) Chloroform	5.086	83	77066	18.349	ug/l	97
31) Cyclohexane	5.458	56	58860	19.207	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	66439	18.842	ug/l	98
36) 1,1-Dichloropropene	5.690	75	48822	19.482	ug/l	97
37) Ethyl Acetate	4.715	43	55249	18.160	ug/l	97
38) Carbon Tetrachloride	5.672	117	54834	19.803	ug/l	97
39) Methylcyclohexane	7.373	83	63735	20.485	ug/l	96
40) Benzene	6.037	78	162324	19.416	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043641.D
Acq On : 31 Oct 2024 11:13
Operator : JC/MD
Sample : VX1031WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 02:59:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.928	41	32166	20.142 ug/l		97
42) 1,2-Dichloroethane	6.086	62	55324	18.407 ug/l		97
43) Isopropyl Acetate	6.342	43	93423	18.568 ug/l		98
44) Trichloroethene	7.123	130	41686	20.071 ug/l		97
45) 1,2-Dichloropropane	7.427	63	38440	18.674 ug/l		97
46) Dibromomethane	7.580	93	30039	18.952 ug/l		95
47) Bromodichloromethane	7.818	83	52774	18.980 ug/l		96
48) Methyl methacrylate	7.696	41	43401	18.194 ug/l		95
49) 1,4-Dioxane	7.665	88	18762	382.822 ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	296357	96.639 ug/l		98
52) Toluene	8.714	92	105440	20.796 ug/l		98
53) t-1,3-Dichloropropene	8.976	75	55431	18.561 ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	62679	19.698 ug/l		96
55) 1,1,2-Trichloroethane	9.153	97	42228	20.009 ug/l		98
56) Ethyl methacrylate	9.116	69	66333	19.343 ug/l		93
57) 1,3-Dichloropropane	9.305	76	69442	19.783 ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	166082	99.999 ug/l		97
59) 2-Hexanone	9.433	43	224890	96.556 ug/l		97
60) Dibromochloromethane	9.519	129	40782	19.515 ug/l		96
61) 1,2-Dibromoethane	9.610	107	43385	19.803 ug/l		98
64) Tetrachloroethene	9.269	164	36007	21.296 ug/l		95
65) Chlorobenzene	10.079	112	115262	19.929 ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	37630	19.919 ug/l		96
67) Ethyl Benzene	10.195	91	191534	20.309 ug/l		100
68) m/p-Xylenes	10.299	106	148770	41.250 ug/l		97
69) o-Xylene	10.640	106	73154	20.188 ug/l		99
70) Styrene	10.653	104	124006	20.589 ug/l		99
71) Bromoform	10.799	173	25521	18.789 ug/l	#	96
73) Isopropylbenzene	10.963	105	187935	20.545 ug/l		99
74) N-amyl acetate	10.842	43	83217	18.675 ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	65355	19.869 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	53034m	19.208 ug/l		
77) Bromobenzene	11.195	156	48002	20.323 ug/l		95
78) n-propylbenzene	11.305	91	204791	20.533 ug/l		99
79) 2-Chlorotoluene	11.366	91	131990	19.958 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	159266	20.882 ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	17586	17.522 ug/l		98
82) 4-Chlorotoluene	11.451	91	147395	19.856 ug/l		96
83) tert-Butylbenzene	11.713	119	160223	20.656 ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	160037	20.590 ug/l		97
85) sec-Butylbenzene	11.890	105	195210	21.471 ug/l		98
86) p-Isopropyltoluene	12.006	119	163177	21.114 ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	86126	20.344 ug/l		99
88) 1,4-Dichlorobenzene	12.043	146	88487	20.172 ug/l		100
89) n-Butylbenzene	12.329	91	132451	21.033 ug/l		98
90) Hexachloroethane	12.536	117	24298	19.356 ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	88815	20.516 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	11482	17.123 ug/l		86
93) 1,2,4-Trichlorobenzene	13.585	180	53081	20.201 ug/l		97
94) Hexachlorobutadiene	13.725	225	19977	20.620 ug/l		100
95) Naphthalene	13.774	128	198000	19.691 ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	55222	19.932 ug/l		100

Sample Results: **VX043641.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043641.D
Acq On : 31 Oct 2024 11:13
Operator : JC/MD
Sample : VX1031WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:59:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

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

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

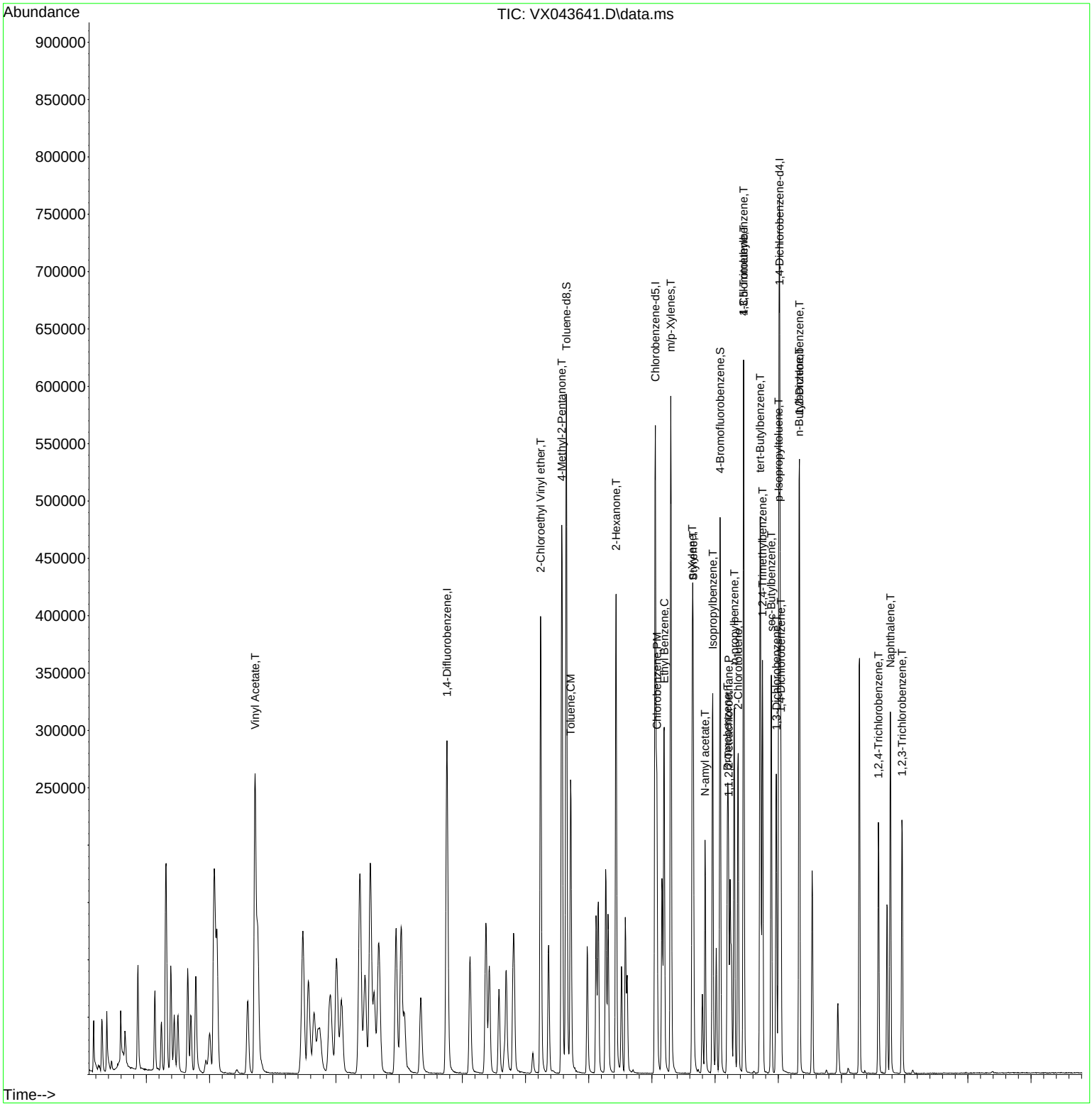
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103124\
Data File : VX043641.D
Acq On : 31 Oct 2024 11:13
Operator : JC/MD
Sample : VX1031WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 02:59:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1031WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



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

Manual Integration Report

Sequence:	VX102824	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX043556.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	1,4-Dichlorobenzene	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	Ethyl Acetate	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	Methacrylonitrile	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC005	VX043557.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:13 AM	MMDadoda	10/29/2024 12:19:39 PM	Peak Integrated by Software
VSTDICC020	VX043558.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:18 AM	MMDadoda	10/29/2024 12:19:37 PM	Peak Integrated by Software
VSTDICC020	VX043558.D	Tert butyl alcohol	SAM	10/29/2024 8:57:18 AM	MMDadoda	10/29/2024 12:19:37 PM	Peak Integrated by Software
VSTDICCC050	VX043559.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:53 AM	MMDadoda	10/29/2024 12:19:36 PM	Peak Integrated by Software
VSTDICCC050	VX043559.D	Tert butyl alcohol	SAM	10/29/2024 8:57:53 AM	MMDadoda	10/29/2024 12:19:36 PM	Peak Integrated by Software
VSTDICC100	VX043560.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:22 AM	MMDadoda	10/29/2024 12:19:34 PM	Peak Integrated by Software
VSTDICC150	VX043561.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:57 AM	MMDadoda	10/29/2024 12:19:32 PM	Peak Integrated by Software
VSTDICV050	VX043563.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:27 AM	MMDadoda	10/29/2024 12:19:30 PM	Peak Integrated by Software
VSTDCCC050	VX043581.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:42 AM	MMDadoda	10/29/2024 12:19:26 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX102824	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	VX103124	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX043637.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:14:23 AM	MMDadoda	11/4/2024 1:19:52 AM	Peak Integrated by Software
VX1031WBS01	VX043640.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:14:24 AM	MMDadoda	11/4/2024 1:19:53 AM	Peak Integrated by Software
VX1031WBS01	VX043640.D	Tert butyl alcohol	SAM	11/4/2024 1:14:24 AM	MMDadoda	11/4/2024 1:19:53 AM	Peak Integrated by Software
VX1031WBSD01	VX043641.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:14:25 AM	MMDadoda	11/4/2024 1:19:55 AM	Peak Integrated by Software
VX1031WBSD01	VX043641.D	Tert butyl alcohol	SAM	11/4/2024 1:14:25 AM	MMDadoda	11/4/2024 1:19:55 AM	Peak Integrated by Software
VSTDCCC050	VX043652.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:14:28 AM	MMDadoda	11/4/2024 1:19:58 AM	Peak Integrated by Software

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM				
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043555.D	28 Oct 2024 10:09	JC/MD	Ok
2	VSTDICC001	VX043556.D	28 Oct 2024 10:59	JC/MD	Ok,M
3	VSTDICC005	VX043557.D	28 Oct 2024 11:22	JC/MD	Ok,M
4	VSTDICC020	VX043558.D	28 Oct 2024 11:45	JC/MD	Ok,M
5	VSTDICCC050	VX043559.D	28 Oct 2024 12:08	JC/MD	Ok,M
6	VSTDICC100	VX043560.D	28 Oct 2024 12:31	JC/MD	Ok,M
7	VSTDICC150	VX043561.D	28 Oct 2024 12:54	JC/MD	Ok,M
8	VIBLK	VX043562.D	28 Oct 2024 14:04	JC/MD	Ok
9	VSTDICV050	VX043563.D	28 Oct 2024 14:27	JC/MD	Ok,M
10	VX1028MBL01	VX043564.D	28 Oct 2024 15:02	JC/MD	Not Ok
11	VX1028WBL01	VX043565.D	28 Oct 2024 15:52	JC/MD	Ok
12	VX1028WBS01	VX043566.D	28 Oct 2024 16:28	JC/MD	Ok,M
13	VX1028WBSD01	VX043567.D	28 Oct 2024 16:51	JC/MD	Ok,M
14	PB164394TB	VX043568.D	28 Oct 2024 17:14	JC/MD	Ok
15	PB164394ZHE#01	VX043569.D	28 Oct 2024 17:38	JC/MD	Ok
16	PB164394ZHE#02	VX043570.D	28 Oct 2024 18:01	JC/MD	Ok
17	PB164394ZHE#03	VX043571.D	28 Oct 2024 18:24	JC/MD	Ok
18	PB164394ZHE#04	VX043572.D	28 Oct 2024 18:47	JC/MD	Ok
19	PB164394ZHE#05	VX043573.D	28 Oct 2024 19:10	JC/MD	Ok
20	PB164394ZHE#06	VX043574.D	28 Oct 2024 19:33	JC/MD	Ok
21	PB164394ZHE#07	VX043575.D	28 Oct 2024 19:56	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM				
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB164394ZHE#08	VX043576.D	28 Oct 2024 20:19	JC/MD	Ok
23	PB164394ZHE#09	VX043577.D	28 Oct 2024 20:42	JC/MD	Ok
24	PB164394ZHE#10	VX043578.D	28 Oct 2024 21:05	JC/MD	Ok
25	PB164394ZHE#11	VX043579.D	28 Oct 2024 21:28	JC/MD	Ok
26	PB164394ZHE#12	VX043580.D	28 Oct 2024 21:52	JC/MD	Ok
27	VSTDCCC050	VX043581.D	28 Oct 2024 22:15	JC/MD	Not Ok

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX103124

Review By	Semsettin Yesilyurt	Review On	11/1/2024 11:41:29 AM				
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:20:10 AM				
SubDirectory	VX103124	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131217
Initial Calibration Stds	
CCC	VP131218,VP131219
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043636.D	31 Oct 2024 08:27	JC/MD	Ok
2	VSTDCCC050	VX043637.D	31 Oct 2024 09:26	JC/MD	Ok,M
3	VX1031MBL01	VX043638.D	31 Oct 2024 09:50	JC/MD	Ok
4	VX1031WBL01	VX043639.D	31 Oct 2024 10:13	JC/MD	Ok
5	VX1031WBS01	VX043640.D	31 Oct 2024 10:50	JC/MD	Ok,M
6	VX1031WBSD01	VX043641.D	31 Oct 2024 11:13	JC/MD	Ok,M
7	VIBLK	VX043642.D	31 Oct 2024 11:37	JC/MD	Ok
8	PB164538TB	VX043643.D	31 Oct 2024 12:00	JC/MD	Ok
9	P4616-04	VX043644.D	31 Oct 2024 12:23	JC/MD	Ok
10	P4616-08	VX043645.D	31 Oct 2024 12:54	JC/MD	Ok
11	P4617-04	VX043646.D	31 Oct 2024 13:17	JC/MD	Ok
12	P4640-04	VX043647.D	31 Oct 2024 13:40	JC/MD	Ok
13	P4646-02	VX043648.D	31 Oct 2024 14:03	JC/MD	Ok
14	P4646-01	VX043649.D	31 Oct 2024 14:27	JC/MD	Ok
15	VIBLK	VX043650.D	31 Oct 2024 14:50	JC/MD	Ok
16	VX1031WBS02	VX043651.D	31 Oct 2024 15:47	JC/MD	Not Ok
17	VSTDCCC050	VX043652.D	31 Oct 2024 16:10	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM		
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043555.D	28 Oct 2024 10:09		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX043556.D	28 Oct 2024 10:59	Method pass	JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX043557.D	28 Oct 2024 11:22	8260D	JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX043558.D	28 Oct 2024 11:45		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX043559.D	28 Oct 2024 12:08		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX043560.D	28 Oct 2024 12:31		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX043561.D	28 Oct 2024 12:54		JC/MD	Ok,M
8	VIBLK	VIBLK	VX043562.D	28 Oct 2024 14:04		JC/MD	Ok
9	VSTDICV050	ICVVX102824	VX043563.D	28 Oct 2024 14:27		JC/MD	Ok,M
10	VX1028MBL01	VX1028MBL01	VX043564.D	28 Oct 2024 15:02	Internal standard fail	JC/MD	Not Ok
11	VX1028WBL01	VX1028WBL01	VX043565.D	28 Oct 2024 15:52		JC/MD	Ok
12	VX1028WBS01	VX1028WBS01	VX043566.D	28 Oct 2024 16:28		JC/MD	Ok,M
13	VX1028WBSD01	VX1028WBSD01	VX043567.D	28 Oct 2024 16:51		JC/MD	Ok,M
14	PB164394TB	PB164394TB	VX043568.D	28 Oct 2024 17:14	pH#5.0 A	JC/MD	Ok
15	PB164394ZHE#01	PB164394ZHE#01	VX043569.D	28 Oct 2024 17:38	pH#5.0 A	JC/MD	Ok
16	PB164394ZHE#02	PB164394ZHE#02	VX043570.D	28 Oct 2024 18:01	pH#5.0 A	JC/MD	Ok
17	PB164394ZHE#03	PB164394ZHE#03	VX043571.D	28 Oct 2024 18:24	pH#5.0 A	JC/MD	Ok
18	PB164394ZHE#04	PB164394ZHE#04	VX043572.D	28 Oct 2024 18:47	pH#5.0 A	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM		
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB164394ZHE#05	PB164394ZHE#05	VX043573.D	28 Oct 2024 19:10	pH#5.0 A	JC/MD	Ok
20	PB164394ZHE#06	PB164394ZHE#06	VX043574.D	28 Oct 2024 19:33	pH#5.0 A	JC/MD	Ok
21	PB164394ZHE#07	PB164394ZHE#07	VX043575.D	28 Oct 2024 19:56	pH#5.0 A	JC/MD	Ok
22	PB164394ZHE#08	PB164394ZHE#08	VX043576.D	28 Oct 2024 20:19	pH#5.0 A	JC/MD	Ok
23	PB164394ZHE#09	PB164394ZHE#09	VX043577.D	28 Oct 2024 20:42	pH#5.0 A	JC/MD	Ok
24	PB164394ZHE#10	PB164394ZHE#10	VX043578.D	28 Oct 2024 21:05	pH#5.0 A	JC/MD	Ok
25	PB164394ZHE#11	PB164394ZHE#11	VX043579.D	28 Oct 2024 21:28	pH#5.0 A	JC/MD	Ok
26	PB164394ZHE#12	PB164394ZHE#12	VX043580.D	28 Oct 2024 21:52	pH#5.0 A	JC/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VX043581.D	28 Oct 2024 22:15	out of tune time	JC/MD	Not Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX103124

Review By	Semsettin Yesilyurt	Review On	11/1/2024 11:41:29 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:20:10 AM		
SubDirectory	VX103124	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131217
Initial Calibration Stds	
CCC	VP131218,VP131219
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043636.D	31 Oct 2024 08:27		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX043637.D	31 Oct 2024 09:26		JC/MD	Ok,M
3	VX1031MBL01	VX1031MBL01	VX043638.D	31 Oct 2024 09:50		JC/MD	Ok
4	VX1031WBL01	VX1031WBL01	VX043639.D	31 Oct 2024 10:13		JC/MD	Ok
5	VX1031WBS01	VX1031WBS01	VX043640.D	31 Oct 2024 10:50		JC/MD	Ok,M
6	VX1031WBSD01	VX1031WBSD01	VX043641.D	31 Oct 2024 11:13		JC/MD	Ok,M
7	VIBLK	VIBLK	VX043642.D	31 Oct 2024 11:37		JC/MD	Ok
8	PB164538TB	PB164538TB	VX043643.D	31 Oct 2024 12:00	pH#5.0 A	JC/MD	Ok
9	P4616-04	BP-F10	VX043644.D	31 Oct 2024 12:23	pH#6.0 A	JC/MD	Ok
10	P4616-08	BP-F9-MOVED	VX043645.D	31 Oct 2024 12:54	pH#6.0 A	JC/MD	Ok
11	P4617-04	CONCRETE-PILE	VX043646.D	31 Oct 2024 13:17	pH#12.0 A	JC/MD	Ok
12	P4640-04	MH-3	VX043647.D	31 Oct 2024 13:40	pH#5.0 A	JC/MD	Ok
13	P4646-02	241030043-05-TRIP-BL	VX043648.D	31 Oct 2024 14:03	pH#6.0 A	JC/MD	Ok
14	P4646-01	241030069-01-VOA	VX043649.D	31 Oct 2024 14:27	pH#9.0 A	JC/MD	Ok
15	VIBLK	VIBLK	VX043650.D	31 Oct 2024 14:50		JC/MD	Ok
16	VX1031WBS02	VX1031WBS02	VX043651.D	31 Oct 2024 15:47	Not Required	JC/MD	Not Ok
17	VSTDCCC050	VSTDCCC050EC	VX043652.D	31 Oct 2024 16:10		JC/MD	Ok,M

M : Manual Integration

SHIPPING DOCUMENTS

Garden State Laboratories, Inc.

Main Lab - 410 Hillside Avenue, Hillside NJ 07205 - NJDEP Lab Cert. #20044
Jersey Shore Lab - 54 Main Street, Waretown NJ 08758 - NJDEP Lab Cert. #15037

Tel. 800-273-8901/908-688-8900 Fax 908-688-8966 www.gslabs.com info@gslabs.com

Office and Drop off Locations

North Jersey Office: 225 Sparta Avenue, Sparta, NJ 07871 Tel. 973-729-1827

West Jersey Office: 2050 Route 31 North, Glen Gardner, NJ 08826 Tel. 908-537-7414

P46646

OR SAMPLE RECEIVING USE ONLY

DATE/TIME/TEMP. REC'D AT LAB:

Page ____ of ____

GSL CLIENT #

MICRO #

CHEM. #

SAMPLE REC'D BY:

☐ GSL FIELD SAMPLER/PICK-UP

☐ PICK-UP AT DROP OFF LOCATION

☐ DELIVERED BY CLIENT

CHAIN OF CUSTODY RECORD - PRESS HARD AND PRINT CLEARLY - USE BALL POINT PEN

IMPORTANT: PRINTED NAMES & SIGNATURES ARE REQUIRED

CLIENT INFORMATION (REPORT TO BE SENT TO)

Name: Garden State Laboratories, Inc. Contact/Authorized by: Robert Szot

Mailing Address: 410 Hillside Ave. Phone: 908-688-8900 EXT 129

City/State/Zip: Hilside, NJ. 07205 Email: rszot@gslabs.com

SAMPLE INFORMATION

SAMPLE TYPE: WASTE WATER

SAMPLE LOCATI ACUA SW LANDFILL LEACHATE TANKS

Grab	Comp	SAMPLE ID	SAMPLE COLLECTION Date	Time	AM	PM	ANALYSIS REQUIRED (Print Legibly) ☐ List attached Total Pages ____	No.	Type*	Size	Pres.*
X	X	VOA 2410300649-01	10/30/24	10:56	X		EPA 8260 TCL LIST + Acrolien & Acrylonitrile	3	V	40ml	A
X		Trip blank 2410300443-05	—	—			EPA 8260 TCL LIST + Acrolien & Acı	2	V	40ml	A

CONTAINER INFORMATION

⇨ Container Type: P = Plastic G = Glass A = Amber Glass T = Sterile Thio V = Vial Other/Specify: ____

⇨ Preservation Code: A = Non Preserved B = Sulfuric Acid C = Sodium Hydroxide D = Nitric Acid E = Hydrochloric Acid F = Zinc Acetate G = Sodium Thiosulfate H = Ascorbic Acid I = Cooled Other/Specify: ____

☒ SUBCONTRACTED WORK

TURNAROUND TIME: ☒ Stand ☐ Rush (If RUSH REQUESTED) Rush Due by:

REPORT FORMAT ☒ Standard Report ☐ Other/Specify:

☐ Standard Report + E2 PWS ID#:

SEND TO: Chem Tech

DATE/TIME:

METHOD OF SHIPMEN Deliver

PAYMENT INFORMATION

☐ Sampling/Pick-up Fee: $ ☐ Composite Fee: $ ☐ Rush Fee: $ Amount Due: $

Payment Method: ☐ Credit Card Type: ☐ Check # ☐ Other: See Quote

Note:

VOA UNPRESERVED DUE TO EFFERVESCENSE - 3 DAY TAT PER JORDAN HE ATL16

Temp 3.7°

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION
PLEASE PRINT YOUR NAME LEGIBLY, USE FULL LEGAL SIGNATURE, DATE AND TIME

Sampled by (PRINT):	Signature:	Date/Time:
Client/Client's Representative (PRINT):	Signature:	Date/Time:
1. Received/Relinquished by (PRINT): Daniel Askey	Signature:	Date/Time: 10/30/24 15:32
2. Received/Relinquished by (PRINT): Matt JACKSON	Signature:	Date/Time: 10/31/24 8:28

Jamir Davis

10-31-24 0828

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Alliance TECHNICAL GROUP

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	P4646 GARD04	**Order Date :**	10/31/2024 10:57:00 AM	**Project Mgr :**	
Client Name :	Garden State Laboratories, I	**Project Name :**	Waste Water 2024	**Report Type :**	Level 1
Client Contact :	Sharon Ercoliani	**Receive DateTime :**	10/31/2024 8:28:00 AM	**EDD Type :**	EXCEL NOCLEANUP
Invoice Name :	Garden State Laboratories, I	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Sharon Ercoliani			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4646-01	241030069-01-VOA	Water	10/30/2024	10:56					
					VOCMS Group1		624.1		10 Bus. Days
					VOCMS Group2		8260-Low		10 Bus. Days
P4646-02	241030043-05-TRIP-BLANK	Water	10/30/2024	00:00					
					VOCMS Group1		624.1		10 Bus. Days
					VOCMS Group2		8260-Low		10 Bus. Days

Relinguished By : _____

Date / Time : 10-31-24 1225

Received By : _____

Date / Time : 10-31-24 12:25 ~~12:12~~

Storage Area : **VOA Refridgerator Room**