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Cover Page

Order ID : P4960

Project ID : OMH Tank Pull-011 - 078673-01 C-03

Client : CHA Companies, Inc.

Lab Sample Number	Client Sample Number
P4960-01	B1
P4960-02	B2
P4960-03	SW1
P4960-04	SW2
P4960-05	SW3
P4960-06	SW4

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 11/29/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P4960**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **PRADIP PRAJAPATI** **Date:** **11/29/2024**

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LAB CHRONICLE

OrderID:	P4960	**OrderDate:**	11/22/2024 10:42:00 AM
Client:	CHA Companies, Inc.	**Project:**	OMH Tank Pull-011 - 078673-01 C-03
Contact:	Scott Smith	**Location:**	M11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4960-01	**B1**	**SOIL**			**11/21/24**			**11/22/24**
			VOCMS Group1	8260D			11/22/24	
P4960-02	**B2**	**SOIL**			**11/21/24**			**11/22/24**
			VOCMS Group1	8260D			11/22/24	
P4960-03	**SW1**	**SOIL**			**11/21/24**			**11/22/24**
			VOCMS Group1	8260D			11/25/24	
P4960-04	**SW2**	**SOIL**			**11/21/24**			**11/22/24**
			VOCMS Group1	8260D			11/25/24	
P4960-05	**SW3**	**SOIL**			**11/21/24**			**11/22/24**
			VOCMS Group1	8260D			11/27/24	
P4960-06	**SW4**	**SOIL**			**11/21/24**			**11/22/24**
			VOCMS Group1	8260D			11/25/24	

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Hit Summary Sheet
SW-846

SDG No.: P4960

Client: CHA Companies, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**SW3**							
P4960-05	SW3	SOIL	Naphthalene	570		150	520	ug/Kg
			Total Voc :	570				
			Total Concentration:	570				

QC SUMMARY

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Surrogate Summary

SDG No.: P4960

Client: CHA Companies, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
P4960-01	B1	1,2-Dichloroethane-d4	50	48.7	97		50	163
		Dibromofluoromethane	50	48.6	97		54	147
		Toluene-d8	50	48.2	96		58	134
		4-Bromofluorobenzene	50	47.1	94		29	146
P4960-02	B2	1,2-Dichloroethane-d4	50	54.1	108		50	163
		Dibromofluoromethane	50	49.7	99		54	147
		Toluene-d8	50	48.1	96		58	134
		4-Bromofluorobenzene	50	50.1	100		29	146
P4960-03	SW1	1,2-Dichloroethane-d4	50	44.8	89		50	163
		Dibromofluoromethane	50	46.9	94		54	147
		Toluene-d8	50	47.7	95		58	134
		4-Bromofluorobenzene	50	45.0	90		29	146
P4960-04	SW2	1,2-Dichloroethane-d4	50	43.4	87		50	163
		Dibromofluoromethane	50	47.6	95		54	147
		Toluene-d8	50	45.2	90		58	134
		4-Bromofluorobenzene	50	37.5	75		29	146
P4960-05	SW3	1,2-Dichloroethane-d4	50	53.9	108		50	163
		Dibromofluoromethane	50	42.9	86		54	147
		Toluene-d8	50	50.4	101		58	134
		4-Bromofluorobenzene	50	53.1	106		29	146
P4960-06	SW4	1,2-Dichloroethane-d4	50	23.7	47	*	50	163
		Dibromofluoromethane	50	42.5	85		54	147
		Toluene-d8	50	43.1	86		58	134
		4-Bromofluorobenzene	50	21.0	42		29	146
VX1127MBL01	VX1127MBL01	1,2-Dichloroethane-d4	50	49.3	99		50	163
		Dibromofluoromethane	50	47.2	94		54	147
		Toluene-d8	50	50.0	100		58	134
		4-Bromofluorobenzene	50	49.3	99		29	146
VX1127MBS01	VX1127MBS01	1,2-Dichloroethane-d4	50	56.2	112		50	163
		Dibromofluoromethane	50	54.0	108		54	147
		Toluene-d8	50	52.5	105		58	134
		4-Bromofluorobenzene	50	52.9	106		29	146
VY1122SBL01	VY1122SBL01	1,2-Dichloroethane-d4	50	47.6	95		50	163
		Dibromofluoromethane	50	48.4	97		54	147
		Toluene-d8	50	47.6	95		58	134
		4-Bromofluorobenzene	50	45.3	91		29	146
VY1122SBS02	VY1122SBS02	1,2-Dichloroethane-d4	50	53.1	106		50	163
		Dibromofluoromethane	50	53.2	106		54	147
		Toluene-d8	50	52.9	106		58	134
		4-Bromofluorobenzene	50	54.6	109		29	146
VY1125SBL01	VY1125SBL01	1,2-Dichloroethane-d4	50	51.0	102		50	163
		Dibromofluoromethane	50	48.5	97		54	147
		Toluene-d8	50	48.2	96		58	134
		4-Bromofluorobenzene	50	45.9	92		29	146
VY1125SBS02	VY1125SBS02	1,2-Dichloroethane-d4	50	41.7	83		50	163
		Dibromofluoromethane	50	42.3	85		54	147
		Toluene-d8	50	42.6	85		58	134
		4-Bromofluorobenzene	50	44.7	89		29	146
VY1125SBSD02	VY1125SBSD02	1,2-Dichloroethane-d4	50	48.8	98		50	163
		Dibromofluoromethane	50	47.9	96		54	147

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Surrogate Summary

SDG No.: P4960

Client: CHA Companies, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VY1125SBSD02	VY1125SBSD02	Toluene-d8	50	47.0	94	58	134
		4-Bromofluorobenzene	50	51.0	102	29	146

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4960

Client: CHA Companies, Inc.

Analytical Method: SW8260D **Datafile :** VX044027.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1127MBS01	Methyl tert-butyl Ether	2000	2200	ug/Kg	110			77	129	
	Benzene	2000	2100	ug/Kg	105			84	121	
	Toluene	2000	2100	ug/Kg	105			83	122	
	Ethyl Benzene	2000	2100	ug/Kg	105			82	124	
	m/p-Xylenes	4000	4100	ug/Kg	103			83	124	
	o-Xylene	2000	2100	ug/Kg	105			83	123	
	Isopropylbenzene	2000	2200	ug/Kg	110			82	124	
	N-propylbenzene	2000	2200	ug/Kg	110			81	123	
	1,3,5-Trimethylbenzene	2000	2200	ug/Kg	110			82	124	
	tert-Butylbenzene	2000	2200	ug/Kg	110			81	125	
	1,2,4-Trimethylbenzene	2000	2200	ug/Kg	110			81	125	
	Sec-butylbenzene	2000	2100	ug/Kg	105			80	124	
	p-Isopropyltoluene	2000	2200	ug/Kg	110			81	125	
	n-Butylbenzene	2000	2100	ug/Kg	105			78	126	
	Naphthalene	2000	2000	ug/Kg	100			70	134	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4960

Client: CHA Companies, Inc.

Analytical Method: SW8260D **Datafile :** VY020404.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1122SBS02	Methyl tert-butyl Ether	20	20.5	ug/Kg	103			77	129	
	Benzene	20	22.5	ug/Kg	113			84	121	
	Toluene	20	22.5	ug/Kg	113			83	122	
	Ethyl Benzene	20	22.6	ug/Kg	113			82	124	
	m/p-Xylenes	40	45.5	ug/Kg	114			83	124	
	o-Xylene	20	22.6	ug/Kg	113			83	123	
	Isopropylbenzene	20	22.9	ug/Kg	115			82	124	
	N-propylbenzene	20	22.0	ug/Kg	110			81	123	
	1,3,5-Trimethylbenzene	20	22.7	ug/Kg	114			82	124	
	tert-Butylbenzene	20	22.6	ug/Kg	113			81	125	
	1,2,4-Trimethylbenzene	20	22.6	ug/Kg	113			81	125	
	Sec-butylbenzene	20	20.5	ug/Kg	103			80	124	
	p-Isopropyltoluene	20	22.1	ug/Kg	111			81	125	
	n-Butylbenzene	20	21.5	ug/Kg	108			78	126	
	Naphthalene	20	20.5	ug/Kg	103			70	134	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4960

Client: CHA Companies, Inc.

Analytical Method: SW8260D **Datafile :** VY020431.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1125SBS02	Methyl tert-butyl Ether	20.8	22.4	ug/Kg	108			77	129	
	Benzene	20.8	25.0	ug/Kg	120			84	121	
	Toluene	20.8	25.7	ug/Kg	124		*	83	122	
	Ethyl Benzene	20.8	25.3	ug/Kg	122			82	124	
	m/p-Xylenes	41.6	52.3	ug/Kg	126		*	83	124	
	o-Xylene	20.8	25.9	ug/Kg	125		*	83	123	
	Isopropylbenzene	20.8	25.4	ug/Kg	122			82	124	
	N-propylbenzene	20.8	24.9	ug/Kg	120			81	123	
	1,3,5-Trimethylbenzene	20.8	25.9	ug/Kg	125		*	82	124	
	tert-Butylbenzene	20.8	25.8	ug/Kg	124			81	125	
	1,2,4-Trimethylbenzene	20.8	25.2	ug/Kg	121			81	125	
	Sec-butylbenzene	20.8	23.0	ug/Kg	111			80	124	
	p-Isopropyltoluene	20.8	25.1	ug/Kg	121			81	125	
	n-Butylbenzene	20.8	23.8	ug/Kg	114			78	126	
	Naphthalene	20.8	23.1	ug/Kg	111			70	134	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4960

Client: CHA Companies, Inc.

Analytical Method: SW8260D **Datafile :** VY020441.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1125SBSD02	Methyl tert-butyl Ether	20	24.2	ug/Kg	121	11		77	129	20
	Benzene	20	25.9	ug/Kg	130	8	*	84	121	20
	Toluene	20	26.1	ug/Kg	131	5	*	83	122	20
	Ethyl Benzene	20	25.2	ug/Kg	126	3	*	82	124	20
	m/p-Xylenes	40	52.2	ug/Kg	131	4	*	83	124	20
	o-Xylene	20	25.6	ug/Kg	128	2	*	83	123	20
	Isopropylbenzene	20	24.3	ug/Kg	121	1		82	124	20
	N-propylbenzene	20	24.1	ug/Kg	121	1		81	123	20
	1,3,5-Trimethylbenzene	20	24.4	ug/Kg	122	2		82	124	20
	tert-Butylbenzene	20	24.9	ug/Kg	125	1		81	125	20
	1,2,4-Trimethylbenzene	20	24.5	ug/Kg	123	2		81	125	20
	Sec-butylbenzene	20	22.9	ug/Kg	115	4		80	124	20
	p-Isopropyltoluene	20	24.4	ug/Kg	122	1		81	125	20
	n-Butylbenzene	20	23.7	ug/Kg	119	4		78	126	20
	Naphthalene	20	24.1	ug/Kg	121	9		70	134	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1127MBL01

Lab Name: CHEMTECH Contract: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG NO.: P4960

Lab File ID: VX044025.D Lab Sample ID: VX1127MBL01

Date Analyzed: 11/27/2024 Time Analyzed: 09:15

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
VX1127MBS01	VX1127MBS01	VX044027.D	11/27/2024
SW3	P4960-05	VX044043.D	11/27/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1122SBL01

Lab Name: CHEMTECH Contract: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG NO.: P4960

Lab File ID: VY020402.D Lab Sample ID: VY1122SBL01

Date Analyzed: 11/22/2024 Time Analyzed: 10:15

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1122SBS02	VY1122SBS02	VY020404.D	11/22/2024
B1	P4960-01	VY020414.D	11/22/2024
B2	P4960-02	VY020415.D	11/22/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1125SBL01

Lab Name: CHEMTECH Contract: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG NO.: P4960

Lab File ID: VY020424.D Lab Sample ID: VY1125SBL01

Date Analyzed: 11/25/2024 Time Analyzed: 10:17

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1125SBS02	VY1125SBS02	VY020431.D	11/25/2024
SW1	P4960-03	VY020433.D	11/25/2024
SW2	P4960-04	VY020434.D	11/25/2024
SW4	P4960-06	VY020436.D	11/25/2024
VY1125SBSD02	VY1125SBSD02	VY020441.D	11/25/2024

COMMENTS:

Raw Data: **VX043924.D**

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

Lab Name: CHEMTECH Contract: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG NO.: P4960

Lab File ID: VX043924.D BFB Injection Date: 11/21/2024

Instrument ID: MSVOA_X BFB Injection Time: 08:51

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.4
75	30.0 - 60.0% of mass 95	54.2
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	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	70.5
175	5.0 - 9.0% of mass 174	4.8 (6.8) 1
176	95.0 - 101.0% of mass 174	67.9 (96.4) 1
177	5.0 - 9.0% of mass 176	4.9 (7.3) 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	VX043925.D	11/21/2024	09:47
VSTDICC005	VSTDICC005	VX043926.D	11/21/2024	10:14
VSTDICC020	VSTDICC020	VX043927.D	11/21/2024	10:37
VSTDICCC050	VSTDICCC050	VX043928.D	11/21/2024	11:17
VSTDICC100	VSTDICC100	VX043929.D	11/21/2024	11:40
VSTDICC150	VSTDICC150	VX043930.D	11/21/2024	12:03

Raw Data: **VX044023.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG NO.: P4960

Lab File ID: VX044023.D BFB Injection Date: 11/27/2024

Instrument ID: MSVOA_X BFB Injection Time: 07:52

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.5
75	30.0 - 60.0% of mass 95	56.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	76.1
175	5.0 - 9.0% of mass 174	5.6 (7.3) 1
176	95.0 - 101.0% of mass 174	73 (96) 1
177	5.0 - 9.0% of mass 176	4.8 (6.6) 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
VSTDCCC050	VSTDCCC050	VX044024.D	11/27/2024	08:46
VX1127MBL01	VX1127MBL01	VX044025.D	11/27/2024	09:15
VX1127MBS01	VX1127MBS01	VX044027.D	11/27/2024	10:01
SW3	P4960-05	VX044043.D	11/27/2024	16:11

Raw Data: **VY020337.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG NO.: P4960

Lab File ID: VY020337.D BFB Injection Date: 11/19/2024

Instrument ID: MSVOA_Y BFB Injection Time: 14:40

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.7
75	30.0 - 60.0% of mass 95	55.3
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 (0.9) 1
174	50.0 - 100.0% of mass 95	81.6
175	5.0 - 9.0% of mass 174	6.4 (7.8) 1
176	95.0 - 101.0% of mass 174	79 (96.8) 1
177	5.0 - 9.0% of mass 176	5.4 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY020338.D	11/19/2024	15:49
VSTDICC010	VSTDICC010	VY020339.D	11/19/2024	16:12
VSTDICC020	VSTDICC020	VY020340.D	11/19/2024	16:35
VSTDICCC050	VSTDICCC050	VY020341.D	11/19/2024	16:57
VSTDICC100	VSTDICC100	VY020342.D	11/19/2024	17:20
VSTDICC150	VSTDICC150	VY020343.D	11/19/2024	17:42

Raw Data: **VY020400.D**

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG NO.: P4960

Lab File ID: VY020400.D BFB Injection Date: 11/22/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:56

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20
75	30.0 - 60.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	73.8
175	5.0 - 9.0% of mass 174	5.7 (7.7) 1
176	95.0 - 101.0% of mass 174	72.5 (98.3) 1
177	5.0 - 9.0% of mass 176	5 (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	VY020401.D	11/22/2024	09:40
VY1122SBL01	VY1122SBL01	VY020402.D	11/22/2024	10:15
VY1122SBS02	VY1122SBS02	VY020404.D	11/22/2024	11:04
B1	P4960-01	VY020414.D	11/22/2024	15:36
B2	P4960-02	VY020415.D	11/22/2024	16:00

Raw Data: **VY020422.D**

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG NO.: P4960

Lab File ID: VY020422.D BFB Injection Date: 11/25/2024

Instrument ID: MSVOA_Y BFB Injection Time: 09:01

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.5
75	30.0 - 60.0% of mass 95	54.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	77.1
175	5.0 - 9.0% of mass 174	6.2 (8) 1
176	95.0 - 101.0% of mass 174	73.6 (95.5) 1
177	5.0 - 9.0% of mass 176	4.7 (6.4) 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	VY020423.D	11/25/2024	09:46
VY1125SBL01	VY1125SBL01	VY020424.D	11/25/2024	10:17
VY1125SBS02	VY1125SBS02	VY020431.D	11/25/2024	15:47
SW1	P4960-03	VY020433.D	11/25/2024	16:34
SW2	P4960-04	VY020434.D	11/25/2024	16:57
SW4	P4960-06	VY020436.D	11/25/2024	17:44
VY1125SBSD02	VY1125SBSD02	VY020441.D	11/25/2024	19:40

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: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG NO.: P4960

Lab File ID: VX044024.D Date Analyzed: 11/27/2024

Instrument ID: MSVOA_X Time Analyzed: 08:46

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	130547	5.54	218884	6.75	184783	10.05
UPPER LIMIT	261094	6.037	437768	7.251	369566	10.549
LOWER LIMIT	65273.5	5.037	109442	6.251	92391.5	9.549
EPA SAMPLE NO.						
SW3	101230	5.54	203097	6.76	182737	10.06
VX1127MBL01	119396	5.54	228047	6.75	207542	10.05
VX1127MBS01	117049	5.54	213408	6.76	180534	10.05

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

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG NO.: P4960

Lab File ID: VX044024.D Date Analyzed: 11/27/2024

Instrument ID: MSVOA_X Time Analyzed: 08:46

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

	IS4 AREA #	RT #				
12 HOUR STD	86408	12.018				
UPPER LIMIT	172816	12.518				
LOWER LIMIT	43204	11.518				
EPA SAMPLE NO.						
SW3	82804	12.02				
VX1127MBL01	87354	12.02				
VX1127MBS01	80899	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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG NO.: P4960

Lab File ID: VY020401.D Date Analyzed: 11/22/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:40

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	199094	7.72	315114	8.63	255079	11.43
UPPER LIMIT	398188	8.219	630228	9.128	510158	11.926
LOWER LIMIT	99547	7.219	157557	8.128	127540	10.926
EPA SAMPLE NO.						
B1	140264	7.71	266905	8.62	244006	11.42
B2	140502	7.71	267874	8.62	251857	11.42
VY1122SBL01	161234	7.72	306842	8.62	269008	11.43
VY1122SBS02	182116	7.72	298132	8.62	246608	11.42

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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Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG NO.: P4960

Lab File ID: VY020401.D Date Analyzed: 11/22/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:40

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	114938	13.359				
UPPER LIMIT	229876	13.859				
LOWER LIMIT	57469	12.859				
EPA SAMPLE NO.						
B1	91276	13.35				
B2	99018	13.35				
VY1122SBL01	94757	13.36				
VY1122SBS02	113255	13.35				

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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG NO.: P4960

Lab File ID: VY020423.D Date Analyzed: 11/25/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:46

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #		RT #	IS2 AREA #		RT #	IS3 AREA #		RT #
12 HOUR STD	174684		7.73	285382		8.63	233134		11.43
UPPER LIMIT	349368		8.225	570764		9.128	466268		11.926
LOWER LIMIT	87342		7.225	142691		8.128	116567		10.926
EPA SAMPLE NO.									
SW1	109399		7.71	194375		8.62	172874		11.41
SW2	25425	*	7.71	42456	*	8.62	33581	*	11.42
SW4	16447	*	7.71	22399	*	8.62	13787	*	11.42
VY1125SBL01	137386		7.72	258494		8.62	236202		11.42
VY1125SBS02	156937		7.71	252125		8.62	210024		11.42
VY1125SBSD02	154039		7.71	250068		8.62	214670		11.41

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: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG NO.: P4960

Lab File ID: VY020423.D Date Analyzed: 11/25/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:46

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #		RT #				
12 HOUR STD	107880		13.359				
UPPER LIMIT	215760		13.859				
LOWER LIMIT	53940		12.859				
EPA SAMPLE NO.							
SW1	63892		13.35				
SW2	10419	*	13.35				
SW4	2505	*	13.35				
VY1125SBL01	84429		13.35				
VY1125SBS02	96610		13.35				
VY1125SBSD02	104045		13.35				

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: **VY020414.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	B1	SDG No.:	P4960
Lab Sample ID:	P4960-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	97.5
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020414.D	1		11/22/24 15:36	VY112224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.69	U	0.69	5.10	ug/Kg
71-43-2	Benzene	0.74	U	0.74	5.10	ug/Kg
108-88-3	Toluene	0.69	U	0.69	5.10	ug/Kg
100-41-4	Ethyl Benzene	0.63	U	0.63	5.10	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.2	ug/Kg
95-47-6	o-Xylene	0.72	U	0.72	5.10	ug/Kg
98-82-8	Isopropylbenzene	0.69	U	0.69	5.10	ug/Kg
103-65-1	n-propylbenzene	0.66	U	0.66	5.10	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.66	U	0.66	5.10	ug/Kg
98-06-6	tert-Butylbenzene	0.69	U	0.69	5.10	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.40	U	1.40	5.10	ug/Kg
135-98-8	sec-Butylbenzene	0.69	U	0.69	5.10	ug/Kg
99-87-6	p-Isopropyltoluene	0.59	U	0.59	5.10	ug/Kg
104-51-8	n-Butylbenzene	0.64	U	0.64	5.10	ug/Kg
91-20-3	Naphthalene	1.50	U	1.50	5.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		50 - 163	97%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		54 - 147	97%	SPK: 50
2037-26-5	Toluene-d8	48.2		58 - 134	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		29 - 146	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	140000	7.713			
540-36-3	1,4-Difluorobenzene	267000	8.622			
3114-55-4	Chlorobenzene-d5	244000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	91300	13.352			

Raw Data: **VY020414.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	B1	SDG No.:	P4960
Lab Sample ID:	P4960-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	97.5
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020414.D	1		11/22/24 15:36	VY112224

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_Y\Data\VY112224\
Data File : VY020414.D
Acq On : 22 Nov 2024 15:36
Operator : SY/MD
Sample : P4960-01
Misc : 5.01g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B1

Quant Time: Nov 23 00:02:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	140264	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	266905	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	244006	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	91276	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	78476	48.698	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 97.400%			
35) Dibromofluoromethane	7.640	113	83149	48.583	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.160%			
50) Toluene-d8	10.109	98	325045	48.213	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.420%			
62) 4-Bromofluorobenzene	12.408	95	101991	47.059	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 94.120%			
Target Compounds						Qvalue

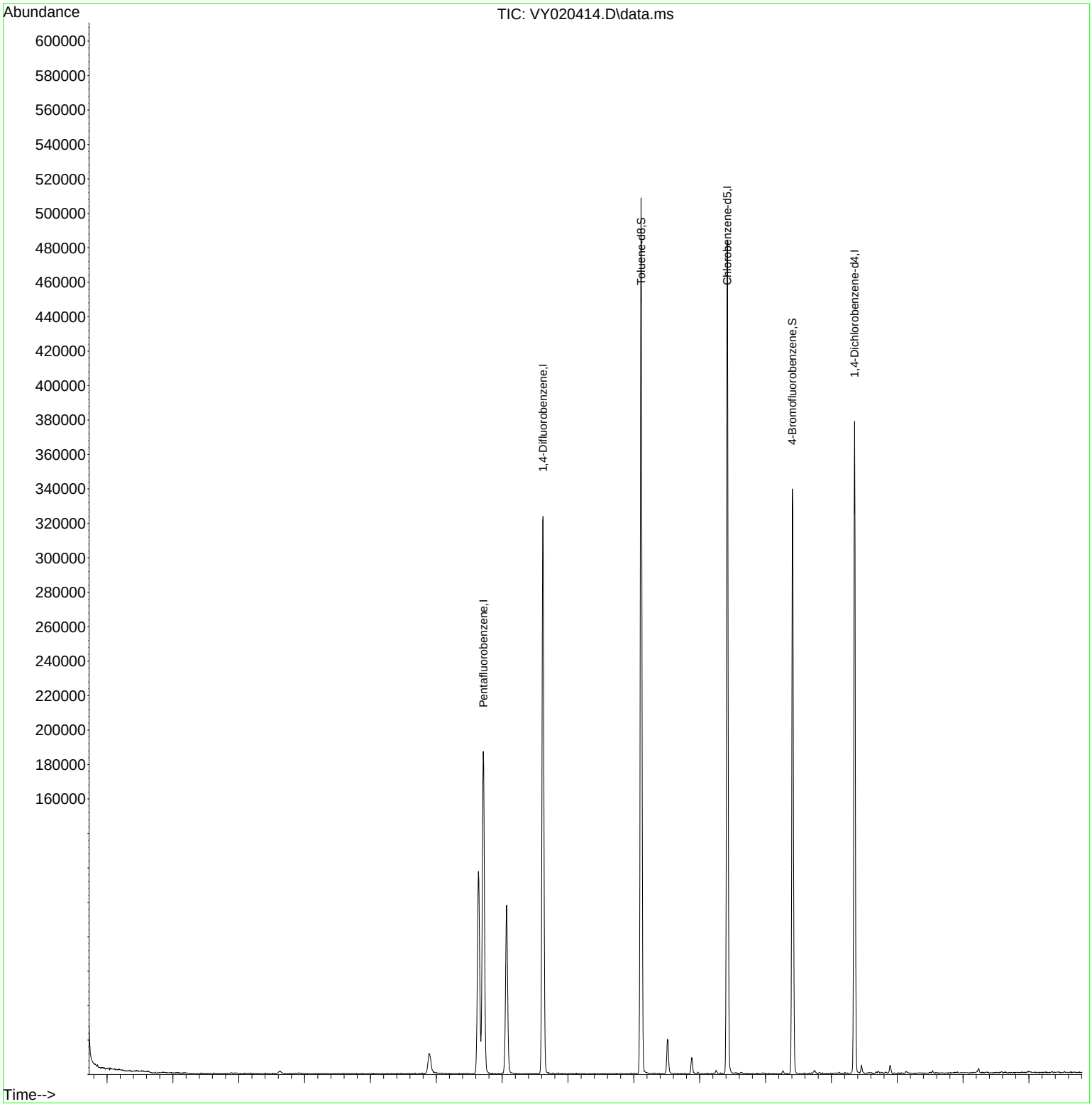
(#) = qualifier out of range (m) = manual integration (+) = signals summed

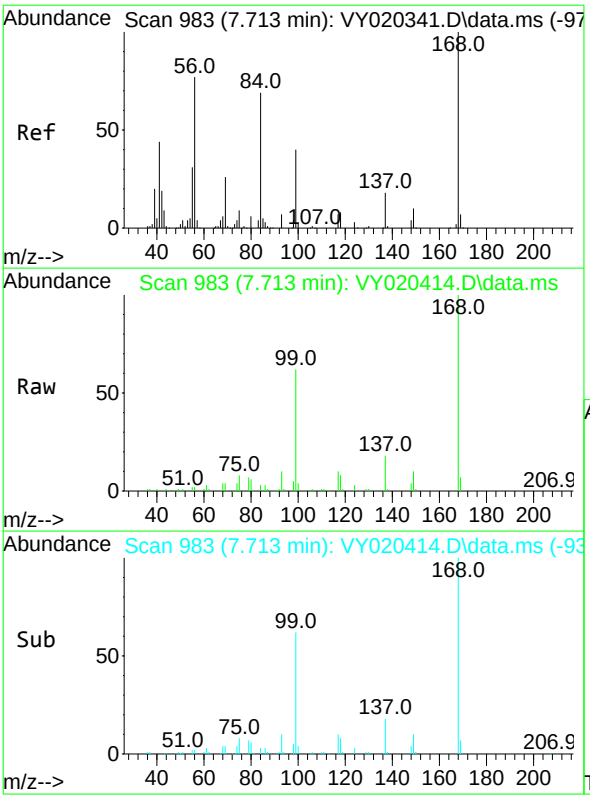
Sample Results: **VY020414.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020414.D
Acq On : 22 Nov 2024 15:36
Operator : SY/MD
Sample : P4960-01
Misc : 5.01g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B1

Quant Time: Nov 23 00:02:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



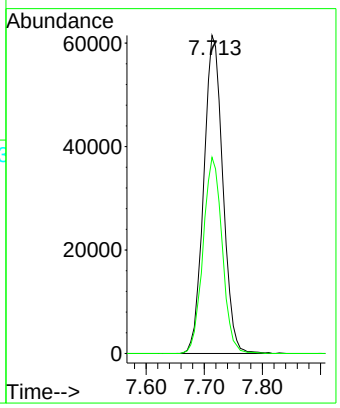


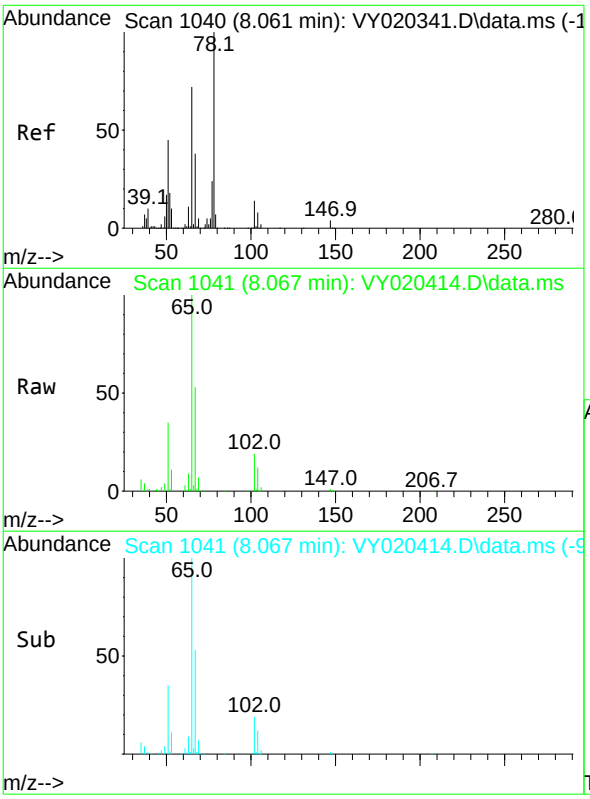
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020414.D
Acq: 22 Nov 2024 15:36

Instrument :
MSVOA_Y
ClientSampleId :
B1

Tgt Ion:168 Resp: 140264

Ion	Ratio	Lower	Upper
168	100		
99	61.7	46.6	69.8

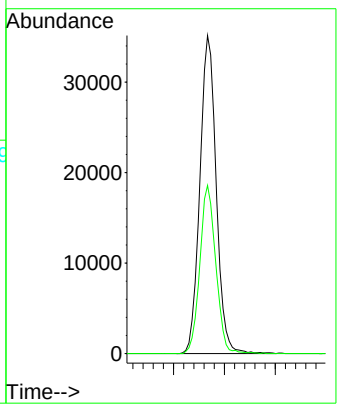


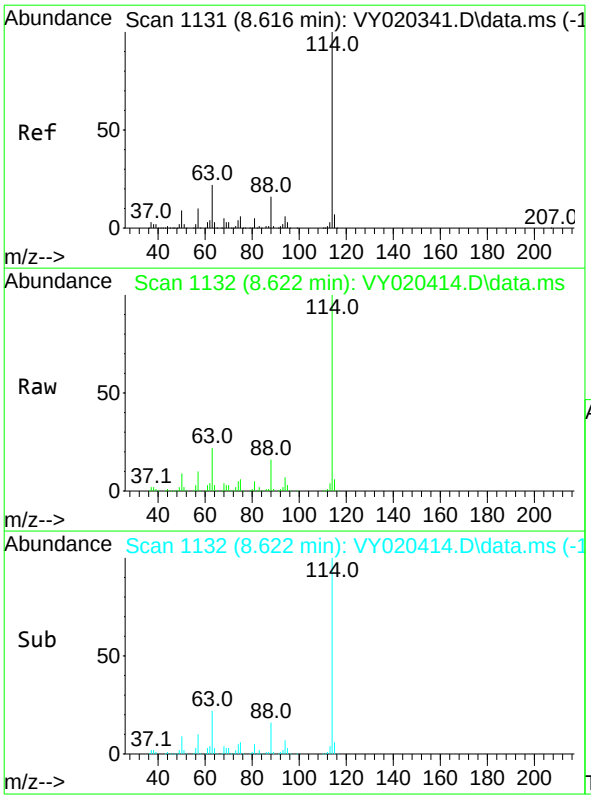


#33
1,2-Dichloroethane-d4
Concen: 48.698 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY020414.D
Acq: 22 Nov 2024 15:36

Tgt Ion: 65 Resp: 78476

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	105.8



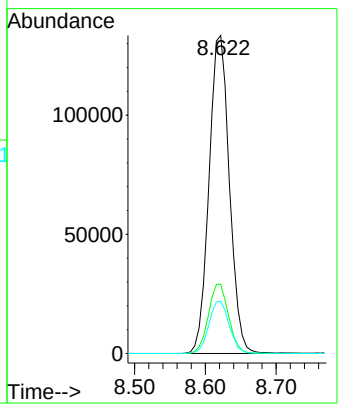


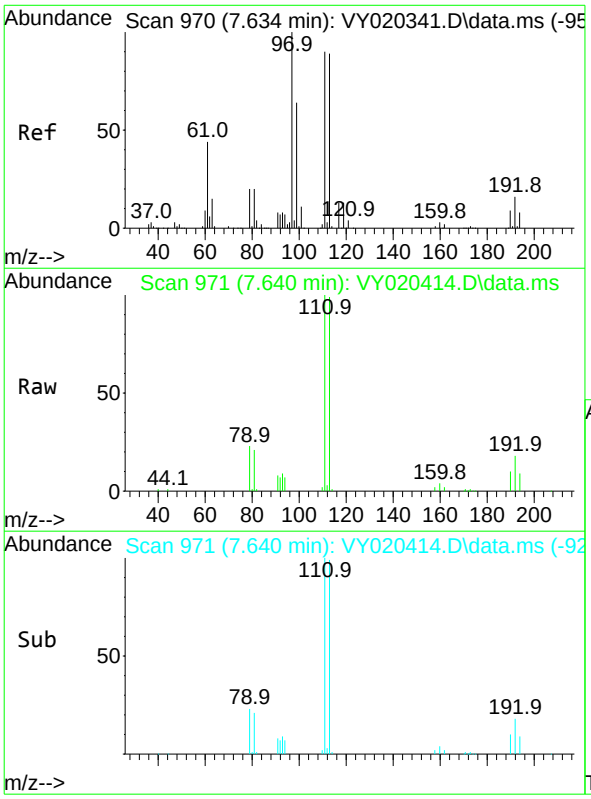
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY020414.D
Acq: 22 Nov 2024 15:36

Instrument :
MSVOA_Y
ClientSampleId :
B1

Tgt Ion:114 Resp: 266905

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	44.8
88	16.4	0.0	32.0

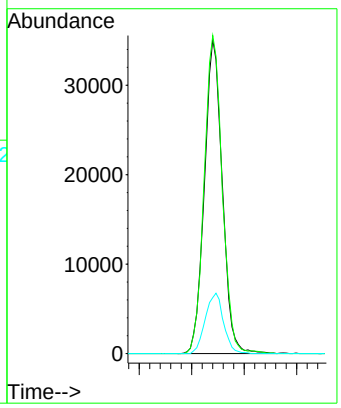


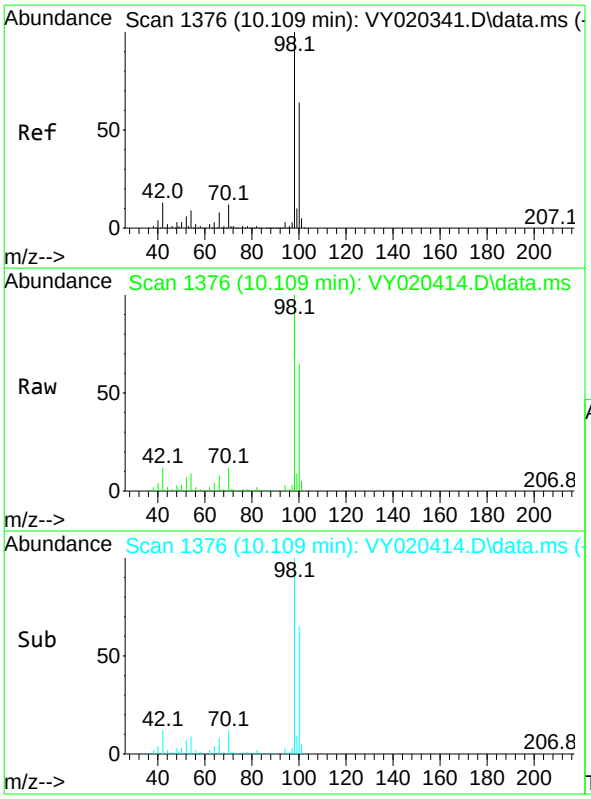


#35
Dibromofluoromethane
Concen: 48.583 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020414.D
Acq: 22 Nov 2024 15:36

Tgt Ion:113 Resp: 83149

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.4	122.0
192	19.6	15.1	22.7



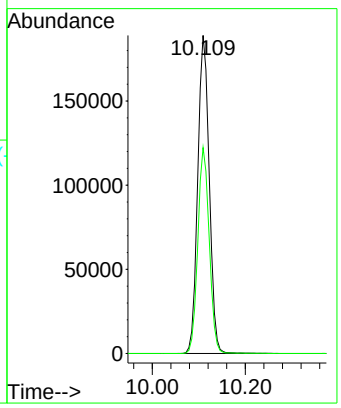


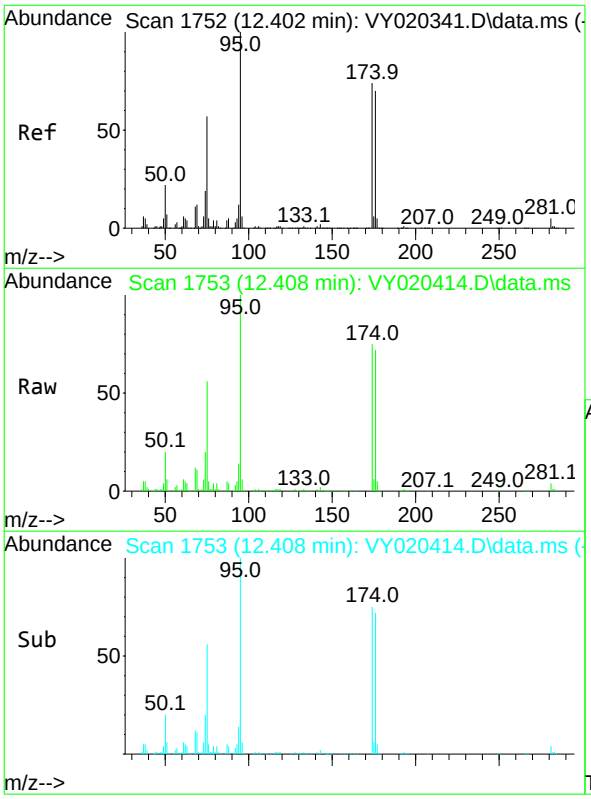
#50
Toluene-d8
Concen: 48.213 ug/l
RT: 10.109 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY020414.D
Acq: 22 Nov 2024 15:36

Instrument :
MSVOA_Y
ClientSampleId :
B1

Tgt Ion: 98 Resp: 325045

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.3	76.9

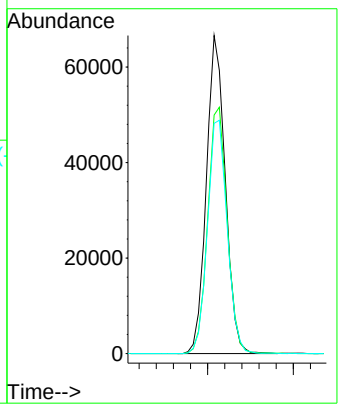


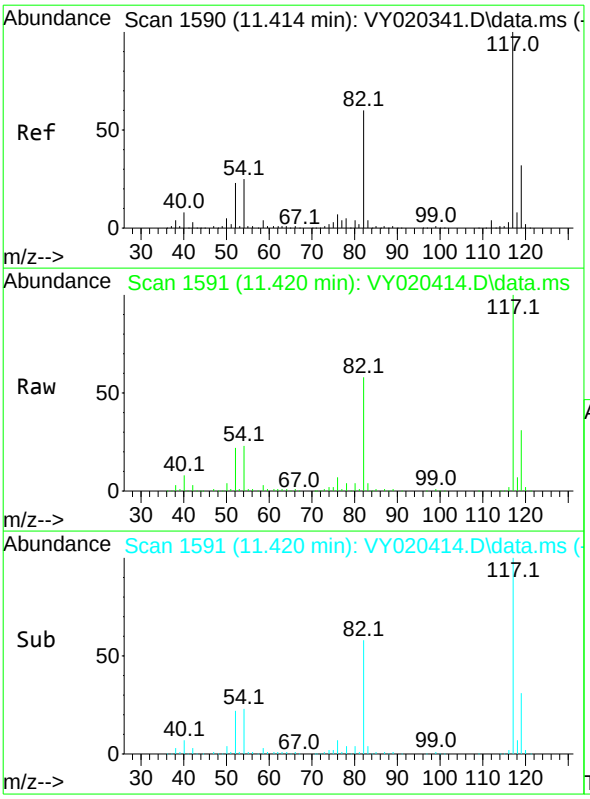


#62
4-Bromofluorobenzene
Concen: 47.059 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020414.D
Acq: 22 Nov 2024 15:36

Tgt Ion: 95 Resp: 101991

Ion	Ratio	Lower	Upper
95	100		
174	79.8	0.0	156.8
176	76.3	0.0	152.0



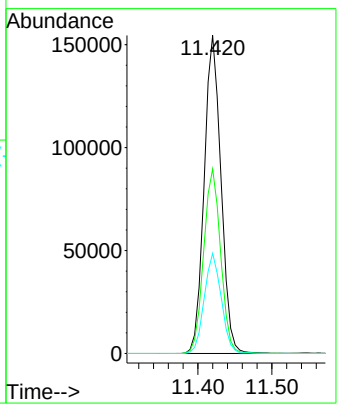


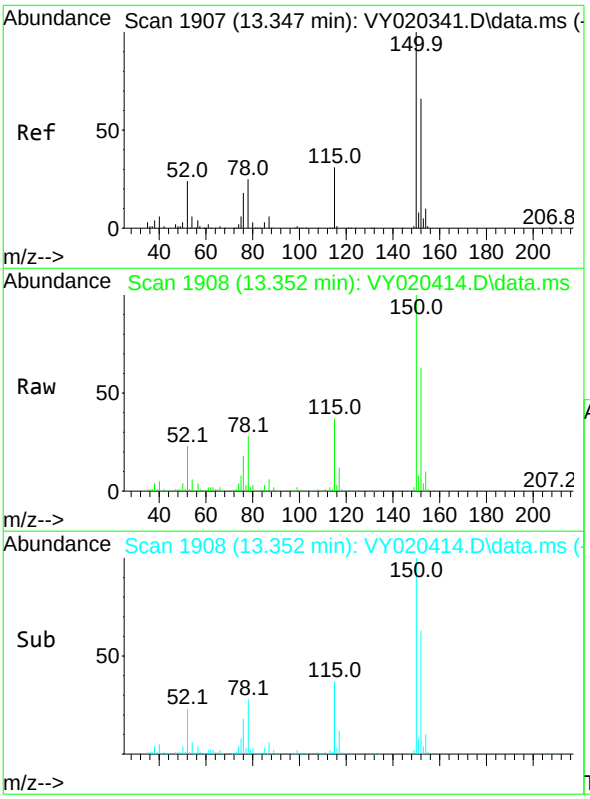
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020414.D
Acq: 22 Nov 2024 15:36

Instrument :
MSVOA_Y
ClientSampleId :
B1

Tgt Ion:117 Resp: 244006

Ion	Ratio	Lower	Upper
117	100		
82	58.0	48.2	72.4
119	31.5	25.8	38.8

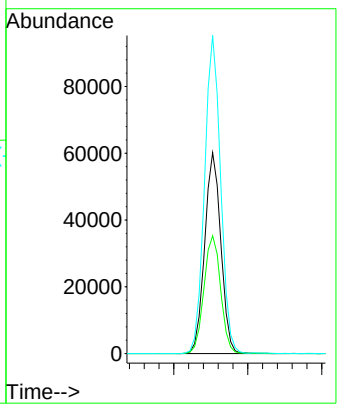




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020414.D
Acq: 22 Nov 2024 15:36

Tgt Ion:152 Resp: 91276

Ion	Ratio	Lower	Upper
152	100		
115	60.5	30.0	90.0
150	157.0	0.0	348.2



Raw Data: **VY020415.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	B2	SDG No.:	P4960
Lab Sample ID:	P4960-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	93.6
Sample Wt/Vol:	5.09 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020415.D	1		11/22/24 16:00	VY112224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.70	U	0.70	5.20	ug/Kg
71-43-2	Benzene	0.76	U	0.76	5.20	ug/Kg
108-88-3	Toluene	0.70	U	0.70	5.20	ug/Kg
100-41-4	Ethyl Benzene	0.65	U	0.65	5.20	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.5	ug/Kg
95-47-6	o-Xylene	0.73	U	0.73	5.20	ug/Kg
98-82-8	Isopropylbenzene	0.70	U	0.70	5.20	ug/Kg
103-65-1	n-propylbenzene	0.67	U	0.67	5.20	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.67	U	0.67	5.20	ug/Kg
98-06-6	tert-Butylbenzene	0.70	U	0.70	5.20	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.40	U	1.40	5.20	ug/Kg
135-98-8	sec-Butylbenzene	0.70	U	0.70	5.20	ug/Kg
99-87-6	p-Isopropyltoluene	0.61	U	0.61	5.20	ug/Kg
104-51-8	n-Butylbenzene	0.66	U	0.66	5.20	ug/Kg
91-20-3	Naphthalene	1.60	U	1.60	5.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.1		50 - 163	108%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		54 - 147	99%	SPK: 50
2037-26-5	Toluene-d8	48.1		58 - 134	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		29 - 146	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	141000	7.713			
540-36-3	1,4-Difluorobenzene	268000	8.622			
3114-55-4	Chlorobenzene-d5	252000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	99000	13.352			

Raw Data: **VY020415.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	B2	SDG No.:	P4960
Lab Sample ID:	P4960-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	93.6
Sample Wt/Vol:	5.09 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020415.D	1		11/22/24 16:00	VY112224

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: **VY020415.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020415.D
Acq On : 22 Nov 2024 16:00
Operator : SY/MD
Sample : P4960-02
Misc : 5.09g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B2

Quant Time: Nov 23 00:02:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	140502	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	267874	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	251857	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	99018	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	87330	54.101	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.200%			
35) Dibromofluoromethane	7.640	113	85389	49.712	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.420%			
50) Toluene-d8	10.109	98	325243	48.068	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.140%			
62) 4-Bromofluorobenzene	12.408	95	109002	50.112	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 100.220%			
Target Compounds						Qvalue

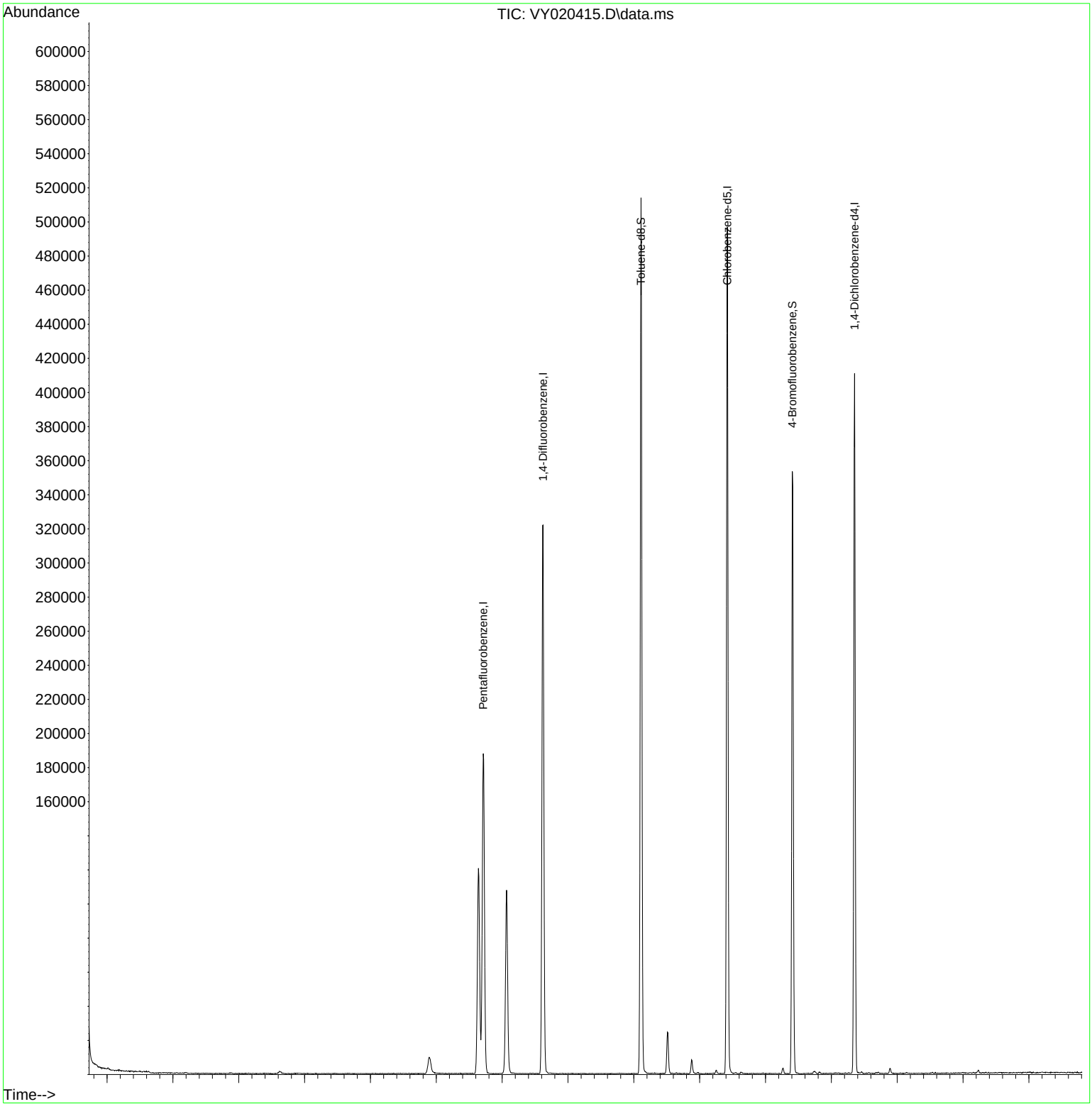
(#) = qualifier out of range (m) = manual integration (+) = signals summed

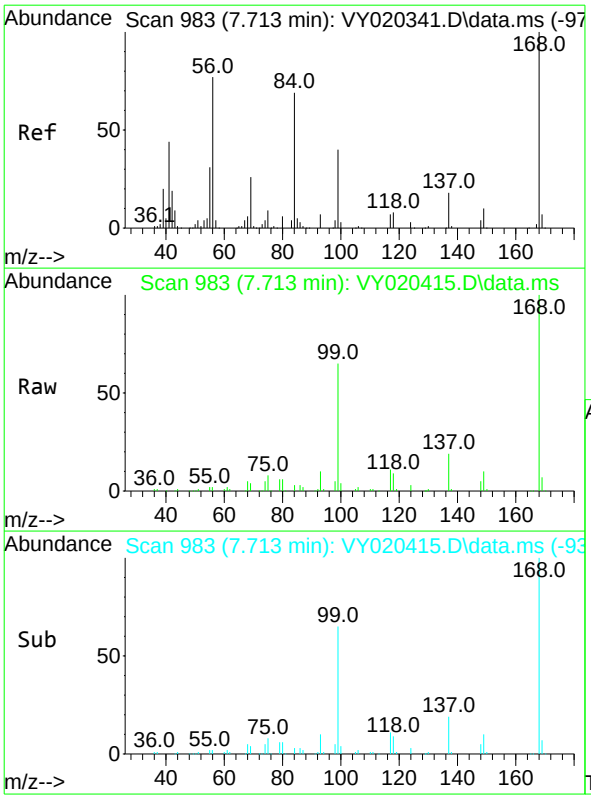
Sample Results: **VY020415.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020415.D
Acq On : 22 Nov 2024 16:00
Operator : SY/MD
Sample : P4960-02
Misc : 5.09g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B2

Quant Time: Nov 23 00:02:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



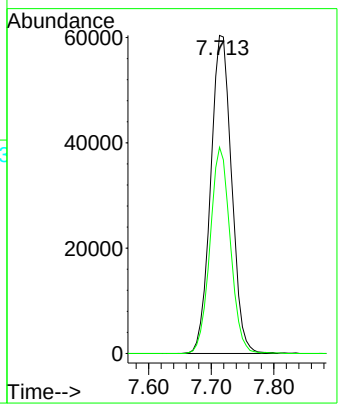


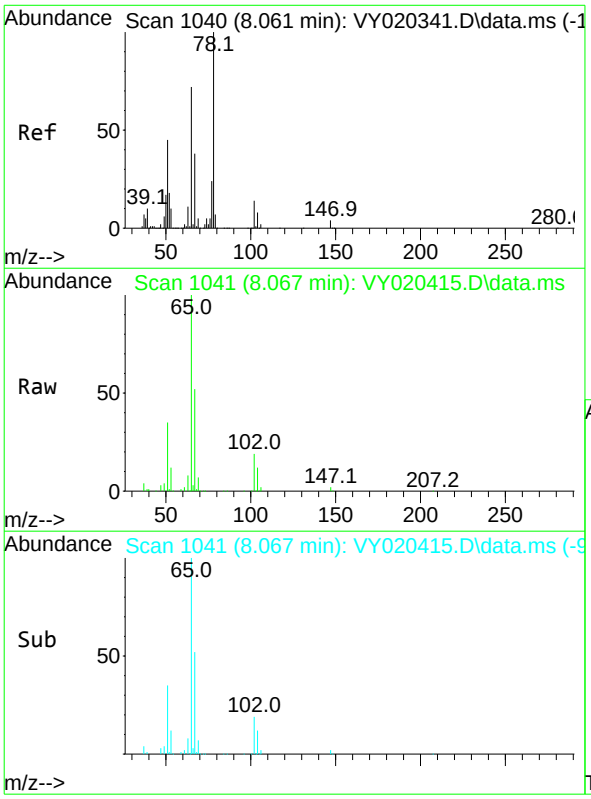
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020415.D
Acq: 22 Nov 2024 16:00

Instrument :
MSVOA_Y
ClientSampleId :
B2

Tgt Ion:168 Resp: 140502

Ion	Ratio	Lower	Upper
168	100		
99	64.8	46.6	69.8

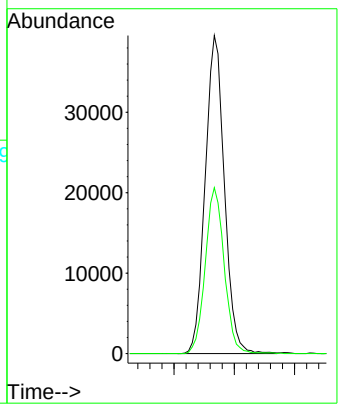


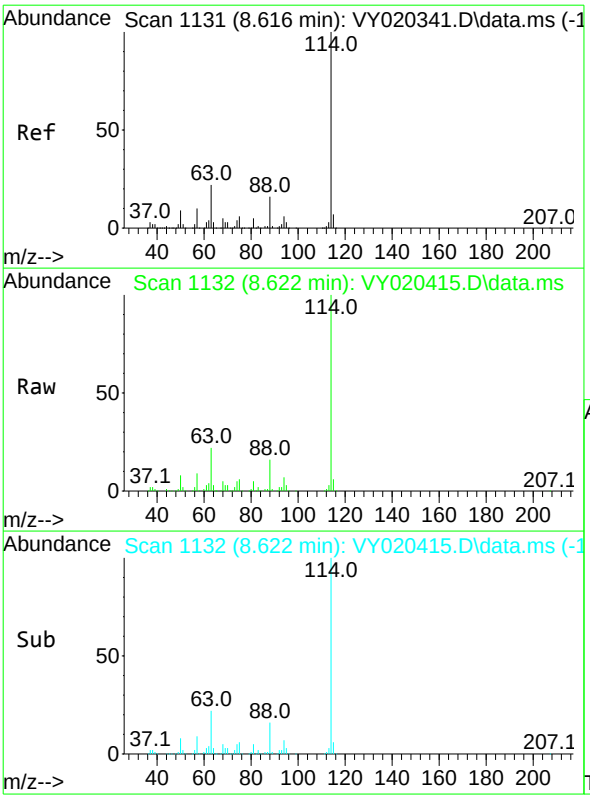


#33
1,2-Dichloroethane-d4
Concen: 54.101 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY020415.D
Acq: 22 Nov 2024 16:00

Tgt Ion: 65 Resp: 87330

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	105.8



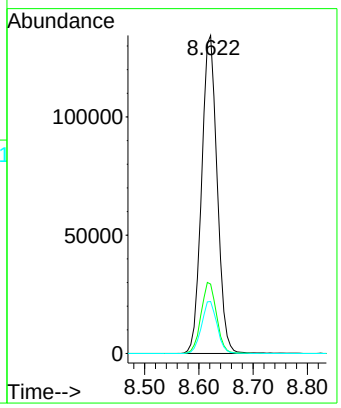


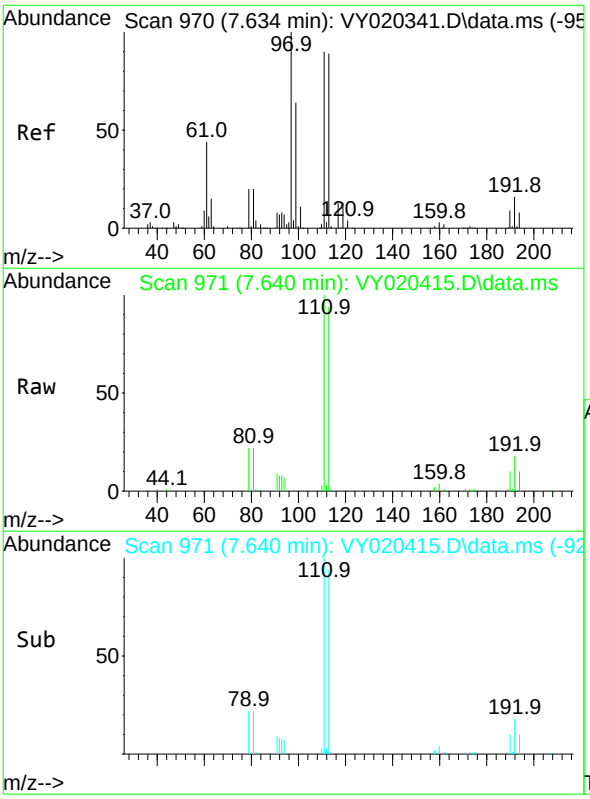
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY020415.D
Acq: 22 Nov 2024 16:00

Instrument :
MSVOA_Y
ClientSampleId :
B2

Tgt Ion:114 Resp: 267874

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	44.8
88	16.3	0.0	32.0

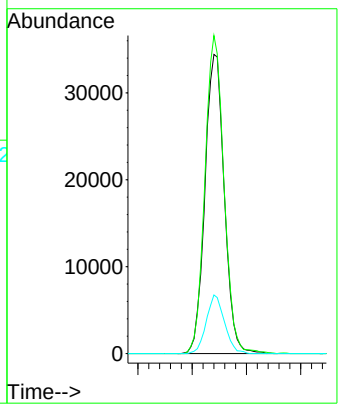


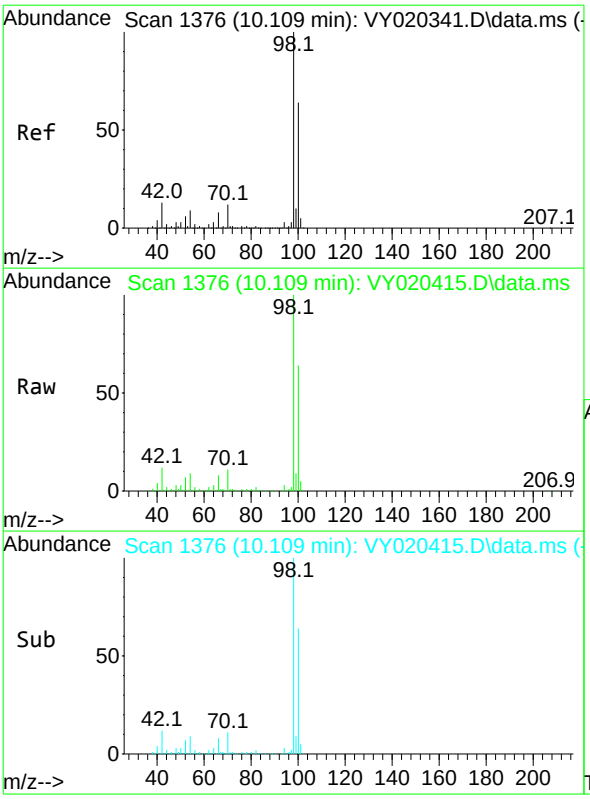


#35
Dibromofluoromethane
Concen: 49.712 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020415.D
Acq: 22 Nov 2024 16:00

Tgt Ion:113 Resp: 85389

Ion	Ratio	Lower	Upper
113	100		
111	104.5	81.4	122.0
192	18.4	15.1	22.7



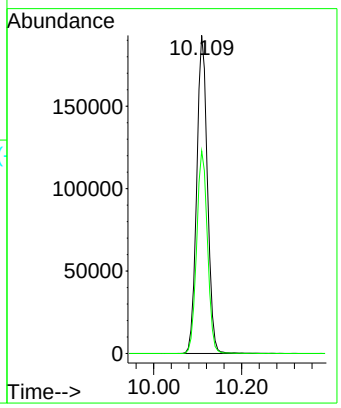


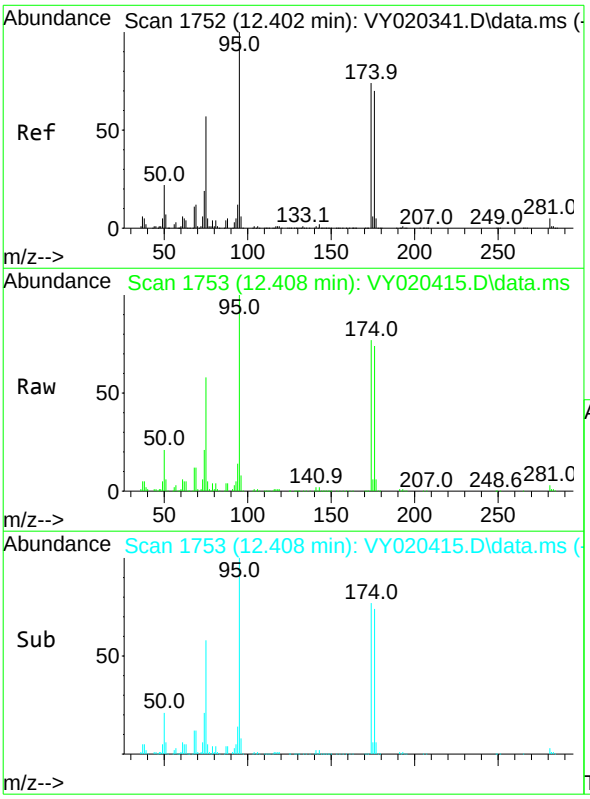
#50
Toluene-d8
Concen: 48.068 ug/l
RT: 10.109 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY020415.D
Acq: 22 Nov 2024 16:00

Instrument :
MSVOA_Y
ClientSampleId :
B2

Tgt Ion: 98 Resp: 325243

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.3	76.9

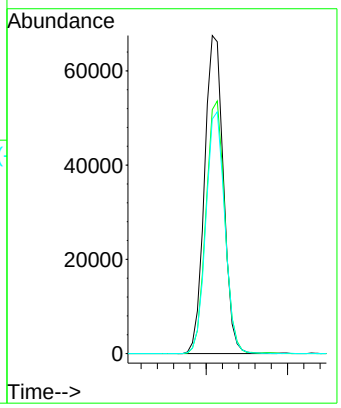


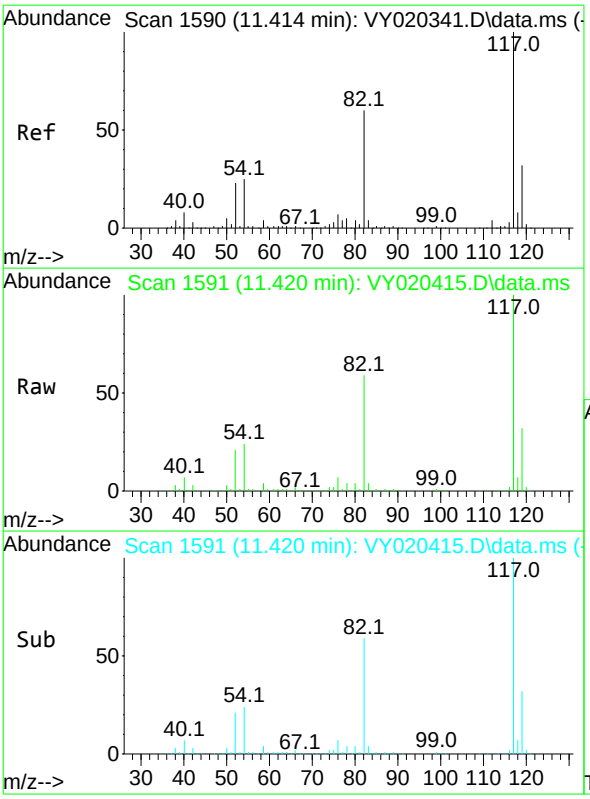


#62
4-Bromofluorobenzene
Concen: 50.112 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020415.D
Acq: 22 Nov 2024 16:00

Tgt Ion: 95 Resp: 109002

Ion	Ratio	Lower	Upper
95	100		
174	78.9	0.0	156.8
176	76.0	0.0	152.0



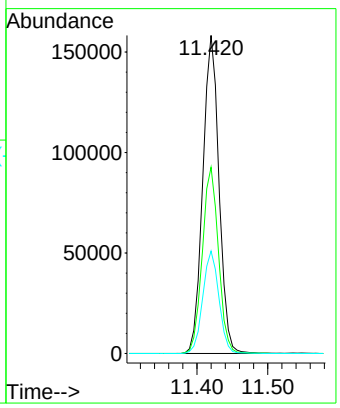


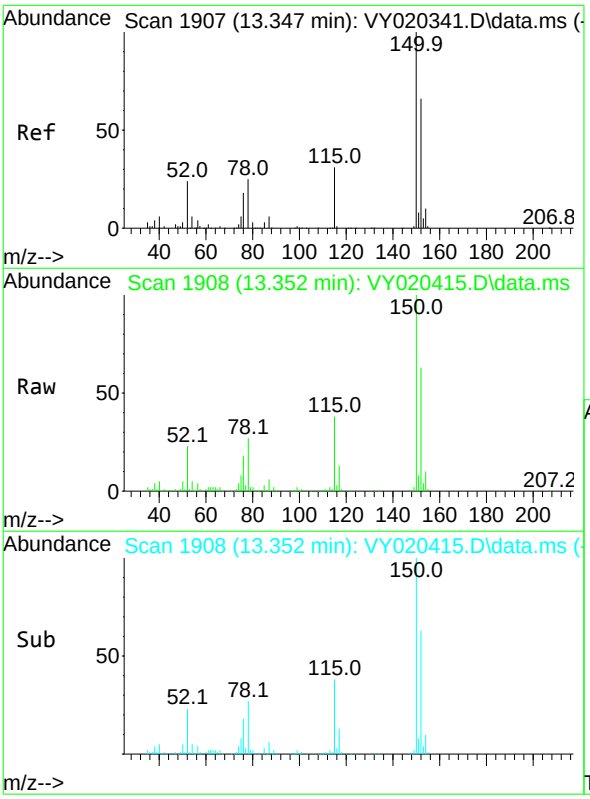
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020415.D
Acq: 22 Nov 2024 16:00

Instrument :
MSVOA_Y
ClientSampleId :
B2

Tgt Ion:117 Resp: 251857

Ion	Ratio	Lower	Upper
117	100		
82	58.6	48.2	72.4
119	32.2	25.8	38.8

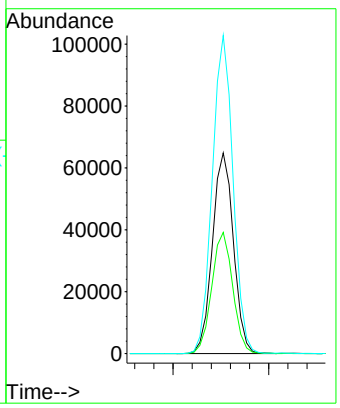




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020415.D
Acq: 22 Nov 2024 16:00

Tgt Ion:152 Resp: 99018

Ion	Ratio	Lower	Upper
152	100		
115	60.2	30.0	90.0
150	156.4	0.0	348.2



Raw Data: **VY020433.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	SW1	SDG No.:	P4960
Lab Sample ID:	P4960-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94.7
Sample Wt/Vol:	5.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020433.D	1		11/25/24 16:34	VY112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.70	U	0.70	5.20	ug/Kg
71-43-2	Benzene	0.75	UQ	0.75	5.20	ug/Kg
108-88-3	Toluene	0.70	UQ	0.70	5.20	ug/Kg
100-41-4	Ethyl Benzene	0.65	UQ	0.65	5.20	ug/Kg
179601-23-1	m/p-Xylenes	1.40	UQ	1.40	10.4	ug/Kg
95-47-6	o-Xylene	0.73	UQ	0.73	5.20	ug/Kg
98-82-8	Isopropylbenzene	0.70	U	0.70	5.20	ug/Kg
103-65-1	n-propylbenzene	0.67	U	0.67	5.20	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.67	UQ	0.67	5.20	ug/Kg
98-06-6	tert-Butylbenzene	0.70	U	0.70	5.20	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.40	U	1.40	5.20	ug/Kg
135-98-8	sec-Butylbenzene	0.70	U	0.70	5.20	ug/Kg
99-87-6	p-Isopropyltoluene	0.61	U	0.61	5.20	ug/Kg
104-51-8	n-Butylbenzene	0.66	U	0.66	5.20	ug/Kg
91-20-3	Naphthalene	1.60	U	1.60	5.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.7		50 - 163	89%	SPK: 50
1868-53-7	Dibromofluoromethane	46.9		54 - 147	94%	SPK: 50
2037-26-5	Toluene-d8	47.7		58 - 134	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		29 - 146	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	109000	7.713			
540-36-3	1,4-Difluorobenzene	194000	8.616			
3114-55-4	Chlorobenzene-d5	173000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	63900	13.346			

Raw Data: **VY020433.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	SW1	SDG No.:	P4960
Lab Sample ID:	P4960-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94.7
Sample Wt/Vol:	5.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020433.D	1		11/25/24 16:34	VY112524

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: **VY020433.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020433.D
Acq On : 25 Nov 2024 16:34
Operator : SY/MD
Sample : P4960-03
Misc : 5.06g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SW1

Quant Time: Nov 26 00:46:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	109399	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	194375	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	172874	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	63892	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	56243	44.749	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 89.500%			
35) Dibromofluoromethane	7.640	113	58498	46.934	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 93.860%			
50) Toluene-d8	10.109	98	234045	47.669	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.340%			
62) 4-Bromofluorobenzene	12.408	95	71110	45.054	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 90.100%			
Target Compounds						Qvalue

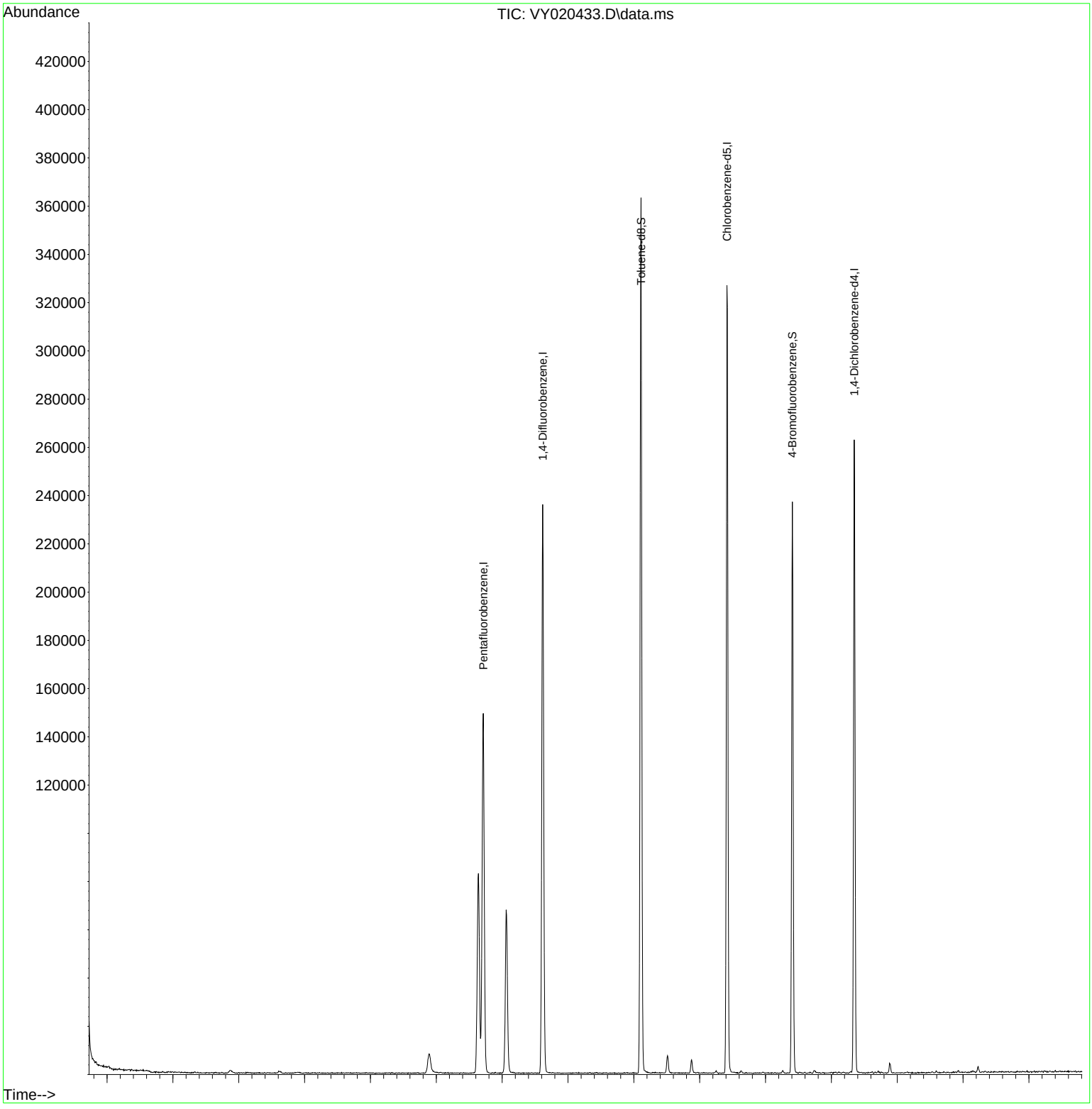
(#) = qualifier out of range (m) = manual integration (+) = signals summed

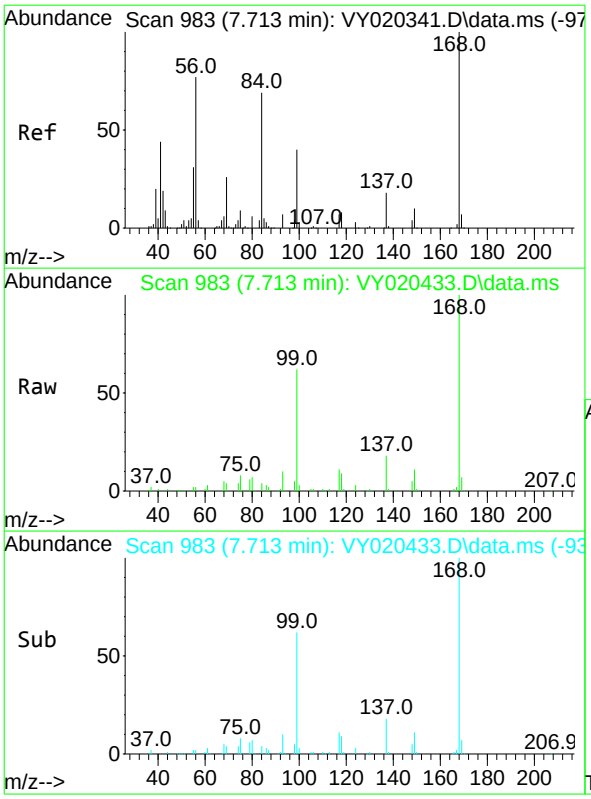
Sample Results: **VY020433.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020433.D
Acq On : 25 Nov 2024 16:34
Operator : SY/MD
Sample : P4960-03
Misc : 5.06g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SW1

Quant Time: Nov 26 00:46:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



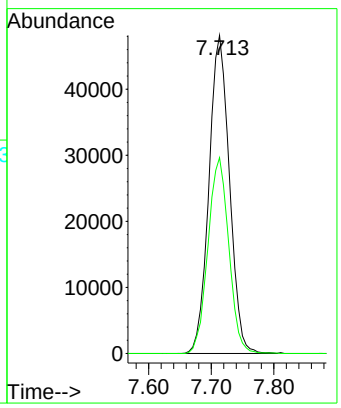


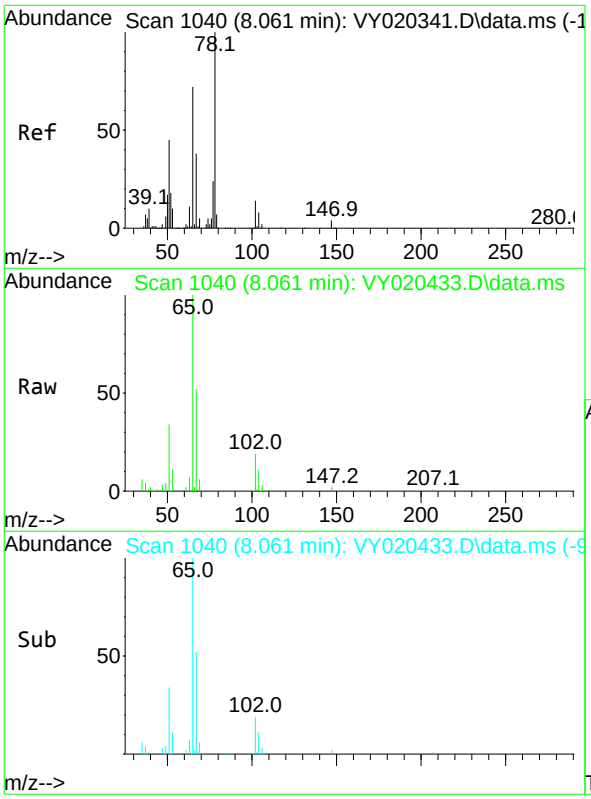
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020433.D
Acq: 25 Nov 2024 16:34

Instrument :
MSVOA_Y
ClientSampleId :
SW1

Tgt Ion:168 Resp: 109399

Ion	Ratio	Lower	Upper
168	100		
99	61.6	46.6	69.8

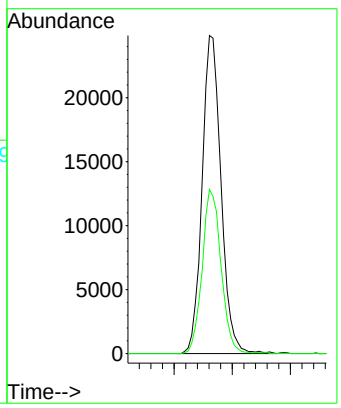


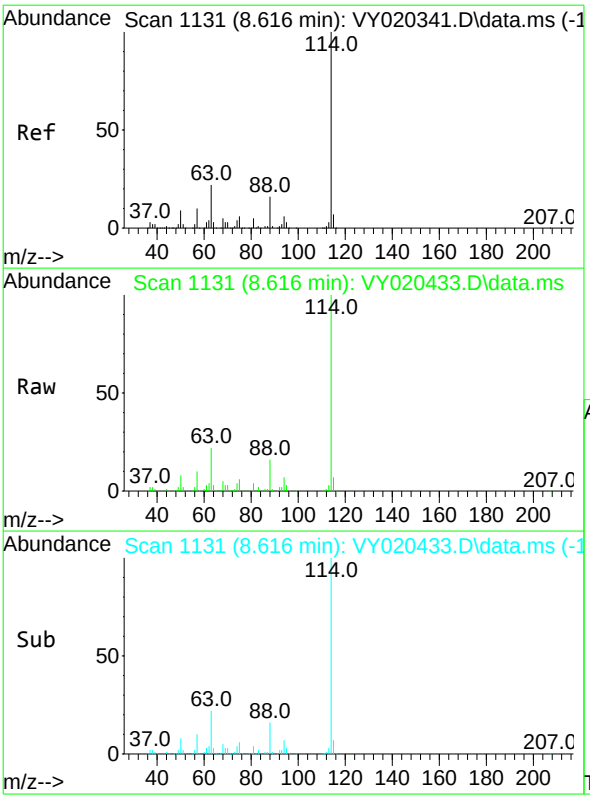


#33
1,2-Dichloroethane-d4
Concen: 44.749 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020433.D
Acq: 25 Nov 2024 16:34

Tgt Ion: 65 Resp: 56243

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	105.8



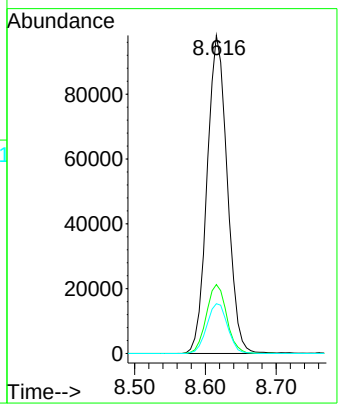


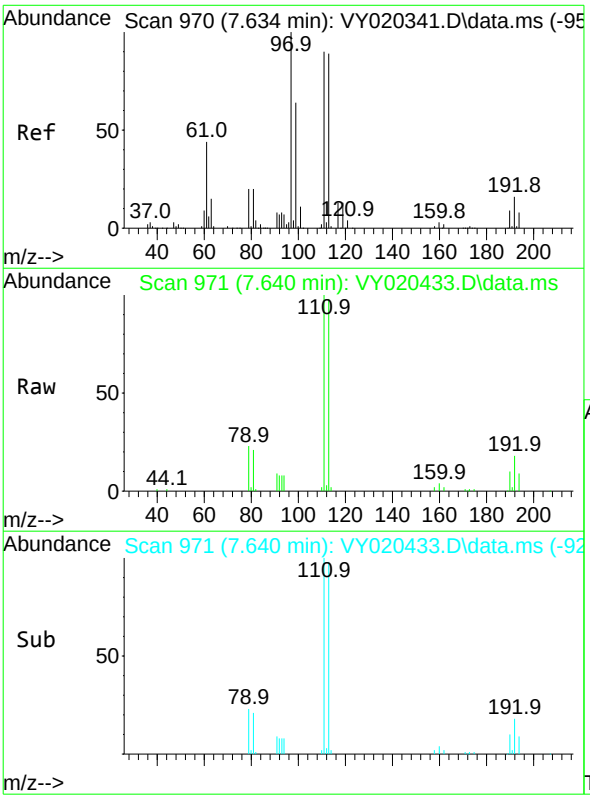
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY020433.D
Acq: 25 Nov 2024 16:34

Instrument :
MSVOA_Y
ClientSampleId :
SW1

Tgt Ion:114 Resp: 194375

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	44.8
88	15.7	0.0	32.0

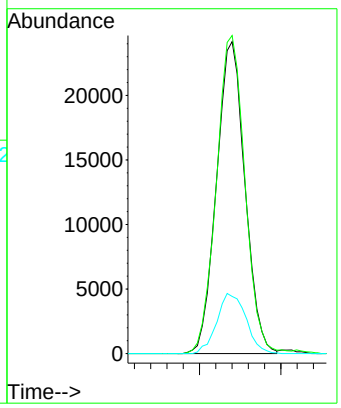


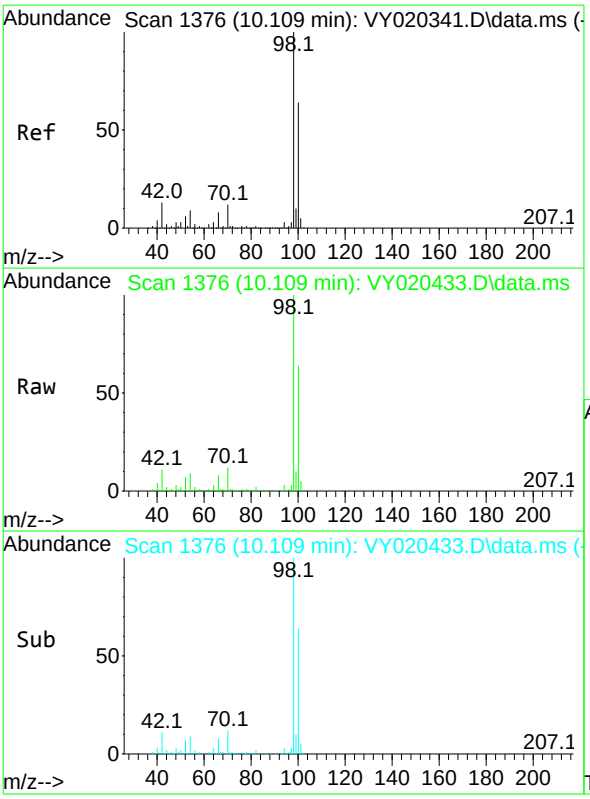


#35
Dibromofluoromethane
Concen: 46.934 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020433.D
Acq: 25 Nov 2024 16:34

Tgt Ion:113 Resp: 58498

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.4	122.0
192	19.8	15.1	22.7



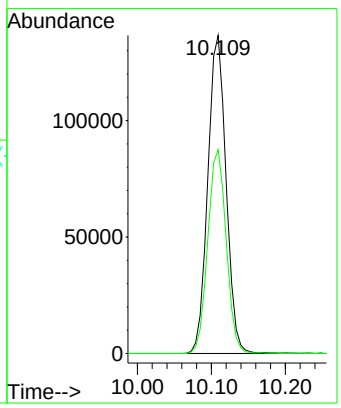


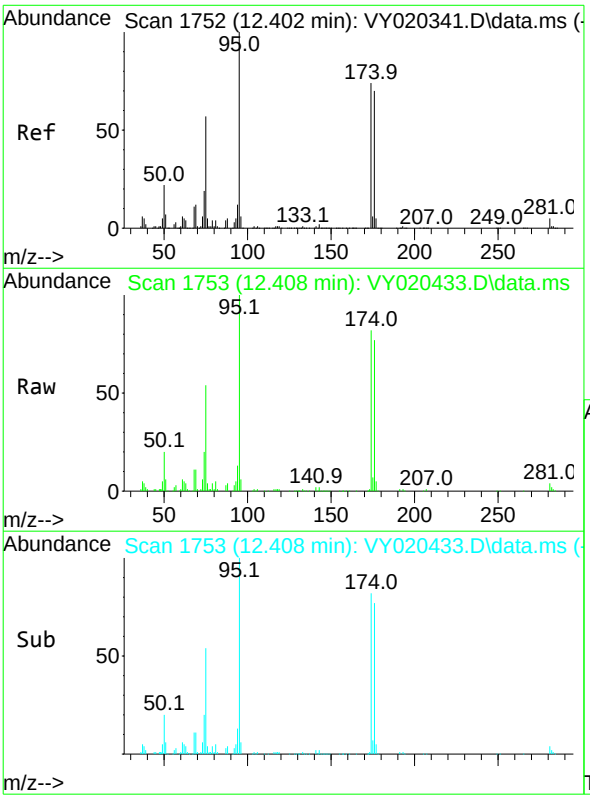
#50
Toluene-d8
Concen: 47.669 ug/l
RT: 10.109 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY020433.D
Acq: 25 Nov 2024 16:34

Instrument :
MSVOA_Y
ClientSampleId :
SW1

Tgt Ion: 98 Resp: 234045

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.3	76.9

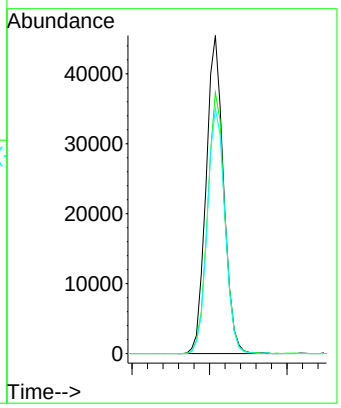


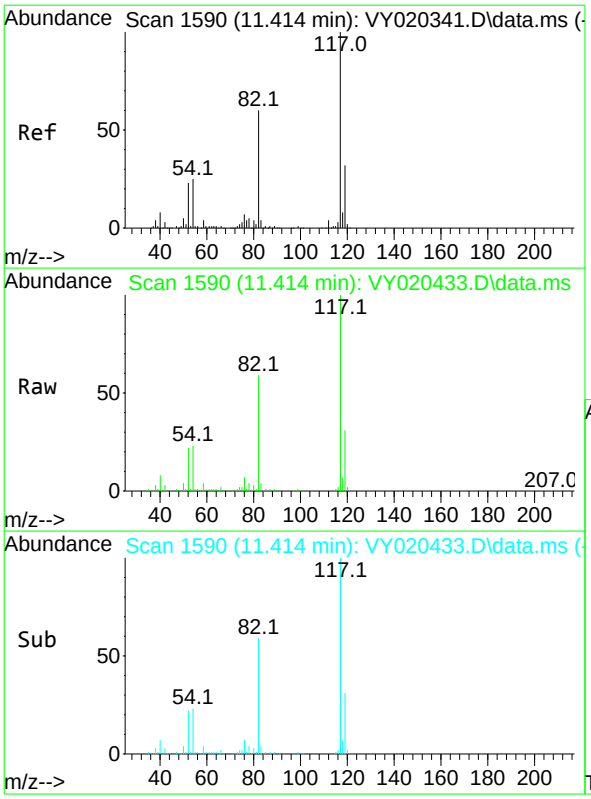


#62
4-Bromofluorobenzene
Concen: 45.054 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020433.D
Acq: 25 Nov 2024 16:34

Tgt Ion: 95 Resp: 71110

Ion	Ratio	Lower	Upper
95	100		
174	81.4	0.0	156.8
176	78.0	0.0	152.0



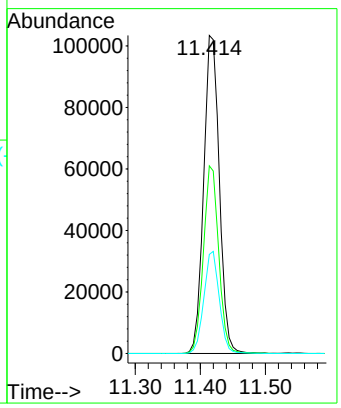


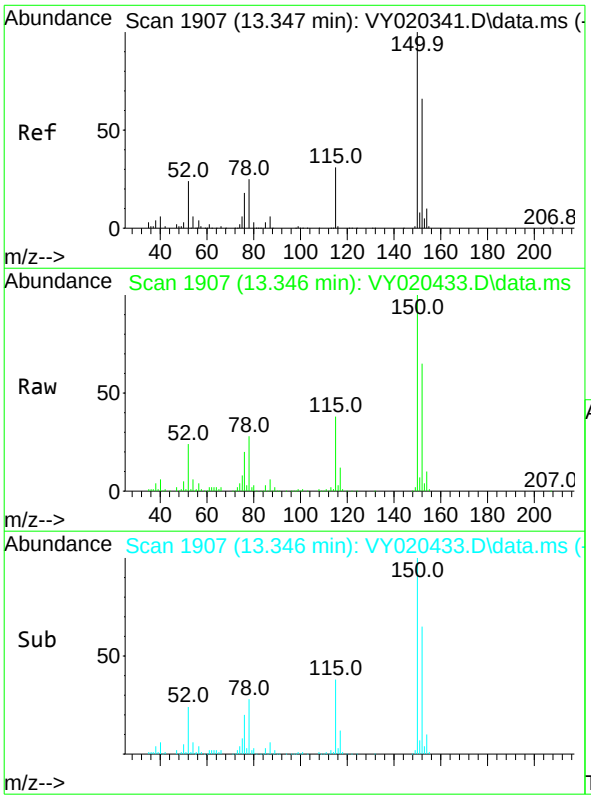
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020433.D
Acq: 25 Nov 2024 16:34

Instrument :
MSVOA_Y
ClientSampleId :
SW1

Tgt Ion:117 Resp: 172874

Ion	Ratio	Lower	Upper
117	100		
82	59.0	48.2	72.4
119	31.2	25.8	38.8

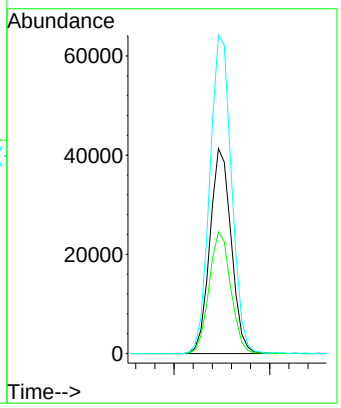




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY020433.D
Acq: 25 Nov 2024 16:34

Tgt Ion:152 Resp: 63892

Ion	Ratio	Lower	Upper
152	100		
115	60.2	30.0	90.0
150	158.3	0.0	348.2



Raw Data: **VY020434.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	SW2	SDG No.:	P4960
Lab Sample ID:	P4960-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.9
Sample Wt/Vol:	5.02 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020434.D	1		11/25/24 16:57	VY112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.74	U	0.74	5.50	ug/Kg
71-43-2	Benzene	0.80	UQ	0.80	5.50	ug/Kg
108-88-3	Toluene	0.74	UQ	0.74	5.50	ug/Kg
100-41-4	Ethyl Benzene	0.69	UQ	0.69	5.50	ug/Kg
179601-23-1	m/p-Xylenes	1.50	UQ	1.50	11.1	ug/Kg
95-47-6	o-Xylene	0.78	UQ	0.78	5.50	ug/Kg
98-82-8	Isopropylbenzene	0.74	U	0.74	5.50	ug/Kg
103-65-1	n-propylbenzene	0.71	U	0.71	5.50	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.71	UQ	0.71	5.50	ug/Kg
98-06-6	tert-Butylbenzene	0.74	U	0.74	5.50	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.50	U	1.50	5.50	ug/Kg
135-98-8	sec-Butylbenzene	0.74	U	0.74	5.50	ug/Kg
99-87-6	p-Isopropyltoluene	0.64	U	0.64	5.50	ug/Kg
104-51-8	n-Butylbenzene	0.70	U	0.70	5.50	ug/Kg
91-20-3	Naphthalene	1.70	U	1.70	5.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.4		50 - 163	87%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		54 - 147	95%	SPK: 50
2037-26-5	Toluene-d8	45.2		58 - 134	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.5		29 - 146	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	25400	7.713			
540-36-3	1,4-Difluorobenzene	42500	8.616			
3114-55-4	Chlorobenzene-d5	33600	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	10400	13.346			

Raw Data: **VY020434.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	SW2	SDG No.:	P4960
Lab Sample ID:	P4960-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.9
Sample Wt/Vol:	5.02 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020434.D	1		11/25/24 16:57	VY112524

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: **VY020434.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020434.D
Acq On : 25 Nov 2024 16:57
Operator : SY/MD
Sample : P4960-04
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SW2

Quant Time: Nov 26 00:46:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	25425	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	42456	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	33581	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	10419	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	12685	43.426	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 86.860%			
35) Dibromofluoromethane	7.640	113	12947	47.557	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 95.120%			
50) Toluene-d8	10.109	98	48517	45.241	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 90.480%			
62) 4-Bromofluorobenzene	12.408	95	12916	37.465	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 74.940%			
Target Compounds						Qvalue

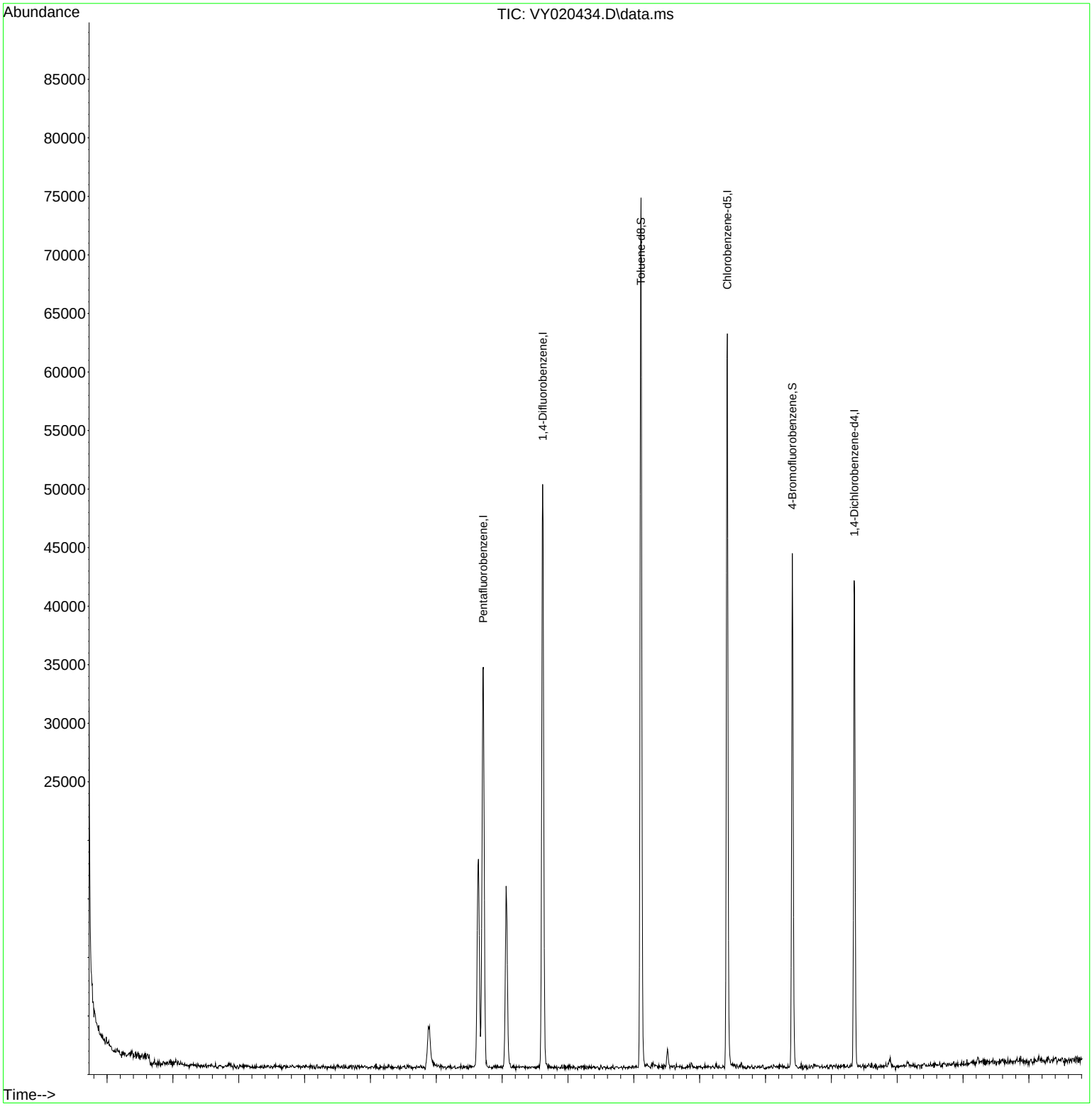
(#) = qualifier out of range (m) = manual integration (+) = signals summed

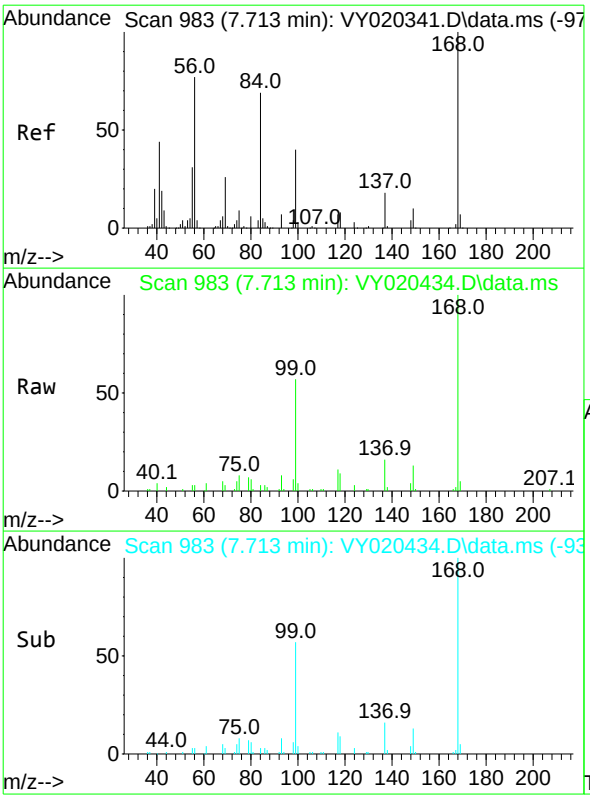
Sample Results: **VY020434.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020434.D
Acq On : 25 Nov 2024 16:57
Operator : SY/MD
Sample : P4960-04
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SW2

Quant Time: Nov 26 00:46:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



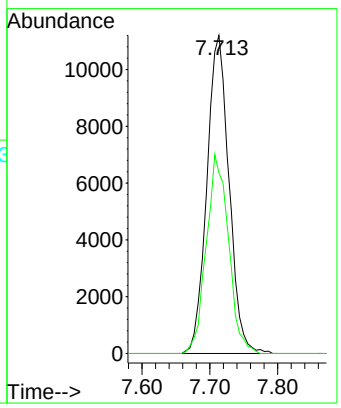


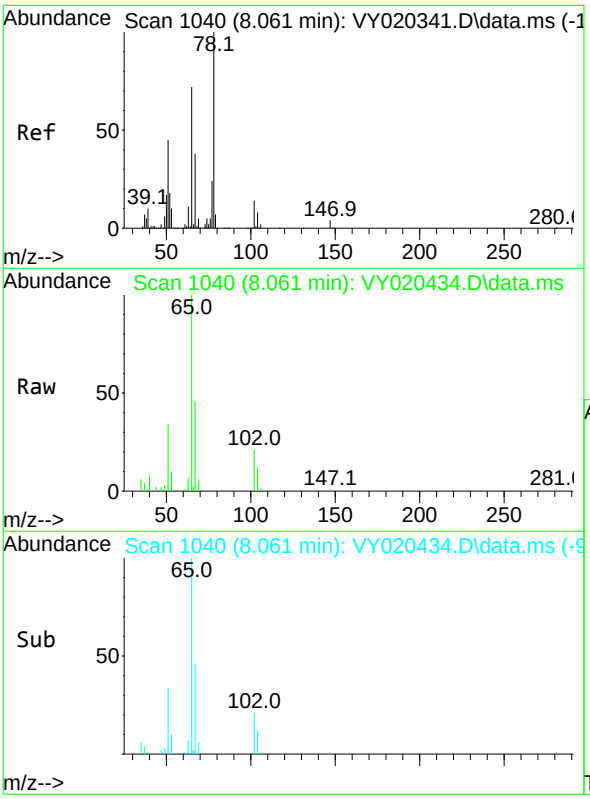
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020434.D
Acq: 25 Nov 2024 16:57

Instrument :
MSVOA_Y
ClientSampleId :
SW2

Tgt Ion:168 Resp: 25425

Ion	Ratio	Lower	Upper
168	100		
99	56.8	46.6	69.8

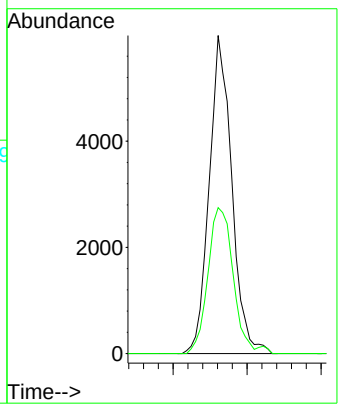


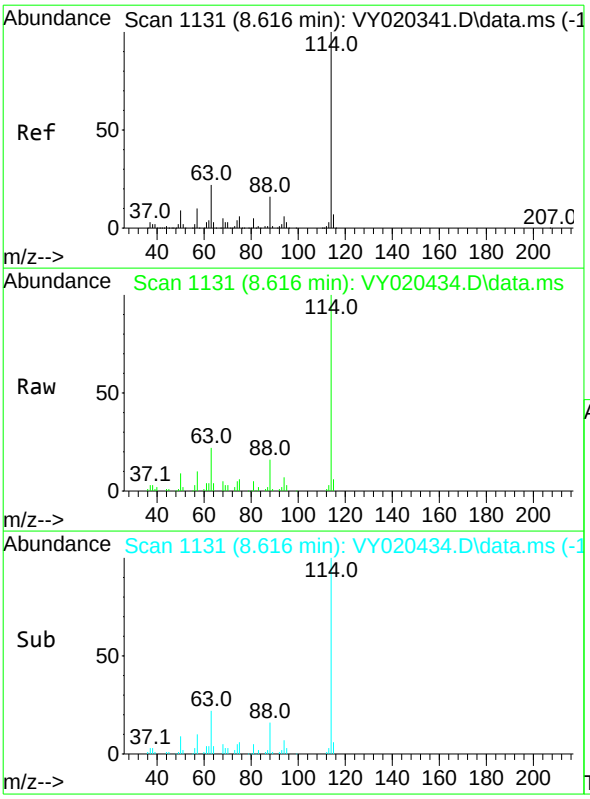


#33
1,2-Dichloroethane-d4
Concen: 43.426 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020434.D
Acq: 25 Nov 2024 16:57

Tgt Ion: 65 Resp: 12685

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	105.8



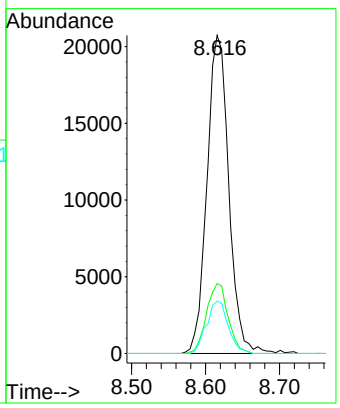


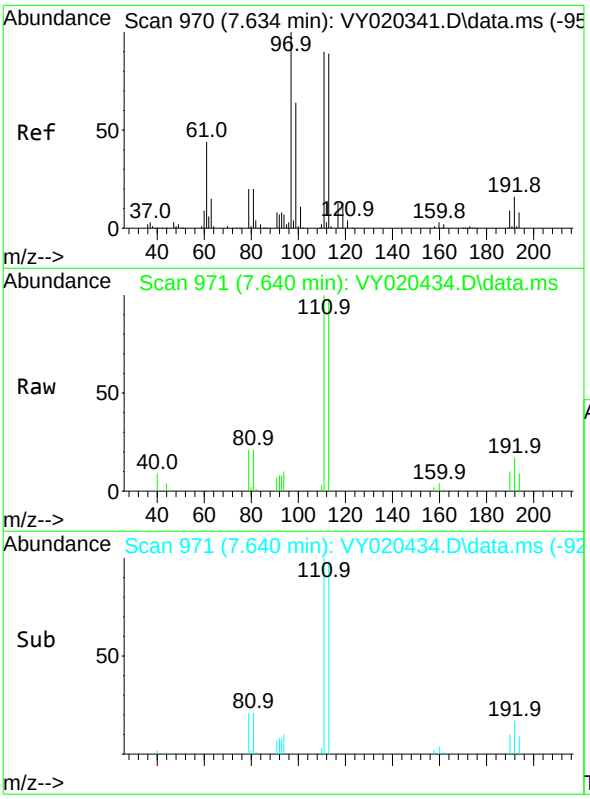
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY020434.D
Acq: 25 Nov 2024 16:57

Instrument :
MSVOA_Y
ClientSampleId :
SW2

Tgt Ion:114 Resp: 42456

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.8
88	16.5	0.0	32.0

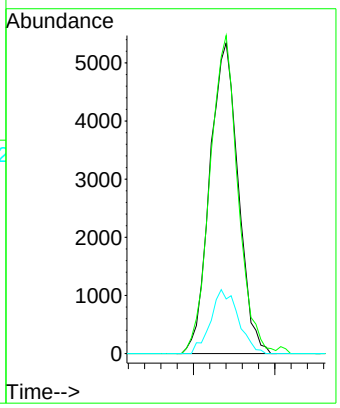


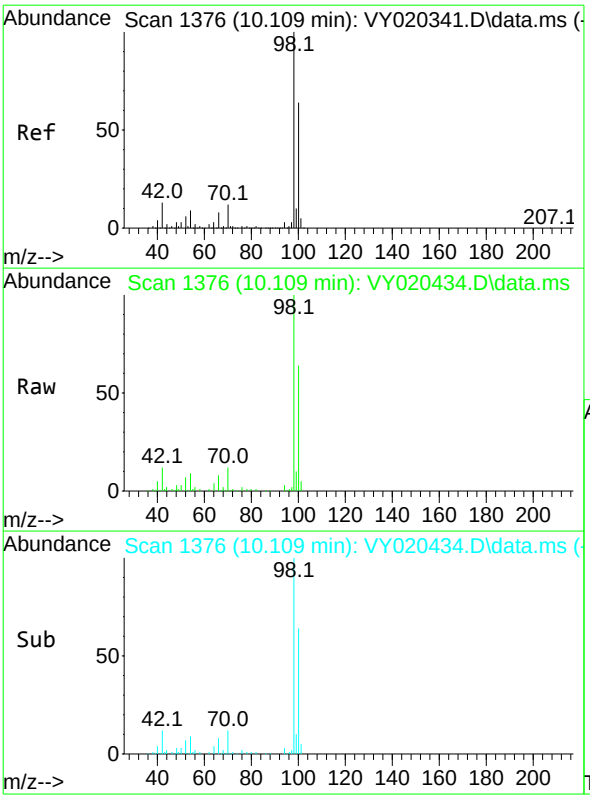


#35
Dibromofluoromethane
Concen: 47.557 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020434.D
Acq: 25 Nov 2024 16:57

Tgt Ion:113 Resp: 12947

Ion	Ratio	Lower	Upper
113	100		
111	100.4	81.4	122.0
192	20.0	15.1	22.7



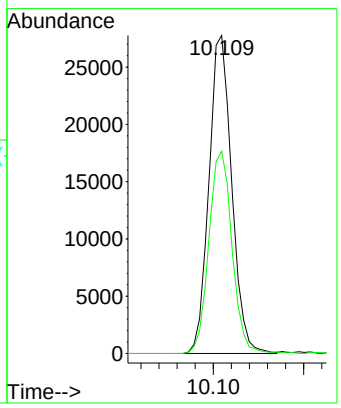


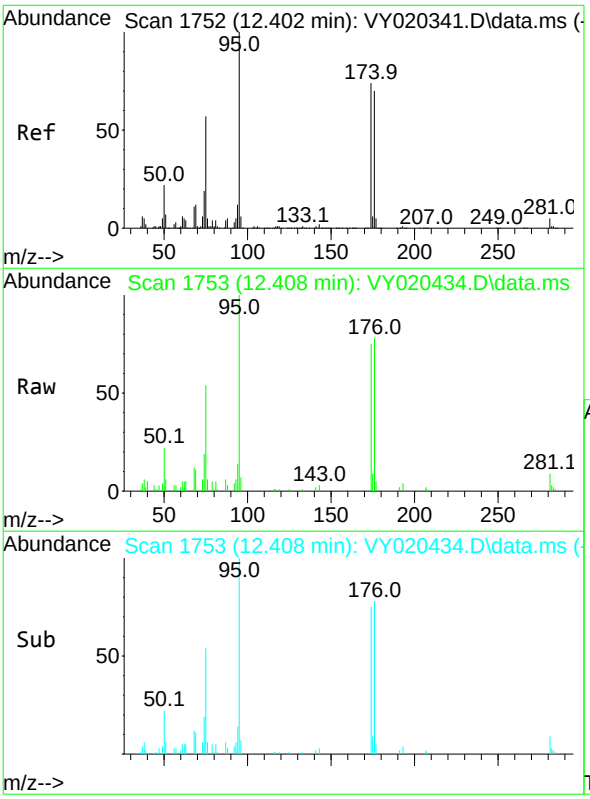
#50
Toluene-d8
Concen: 45.241 ug/l
RT: 10.109 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY020434.D
Acq: 25 Nov 2024 16:57

Instrument :
MSVOA_Y
ClientSampleId :
SW2

Tgt Ion: 98 Resp: 48517

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.3	76.9

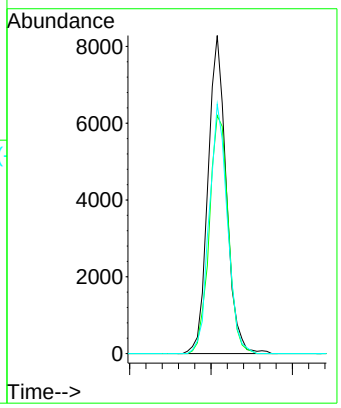


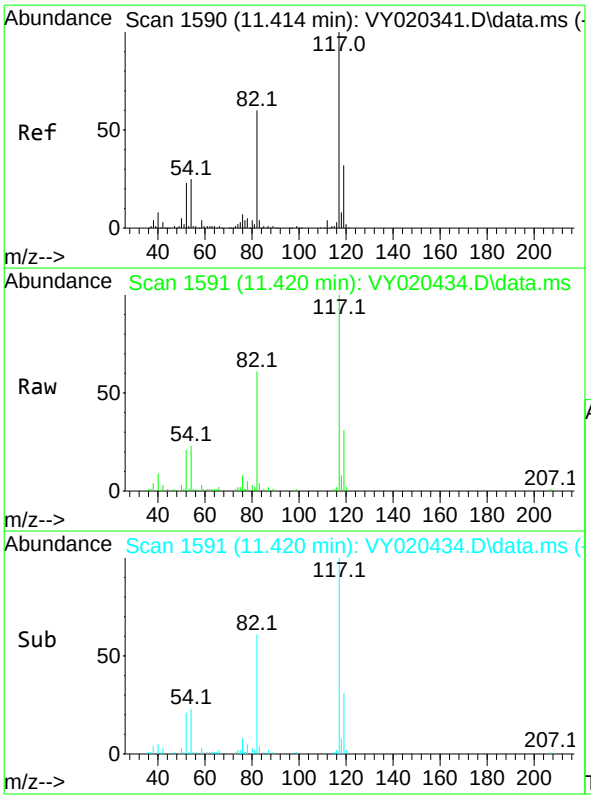


#62
4-Bromofluorobenzene
Concen: 37.465 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020434.D
Acq: 25 Nov 2024 16:57

Tgt Ion: 95 Resp: 12916

Ion	Ratio	Lower	Upper
95	100		
174	77.8	0.0	156.8
176	78.2	0.0	152.0



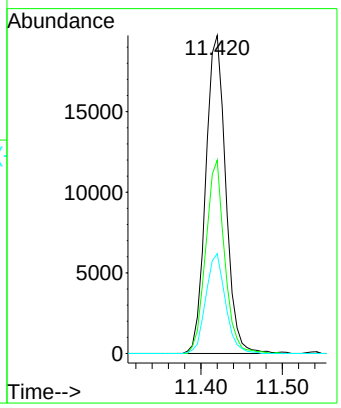


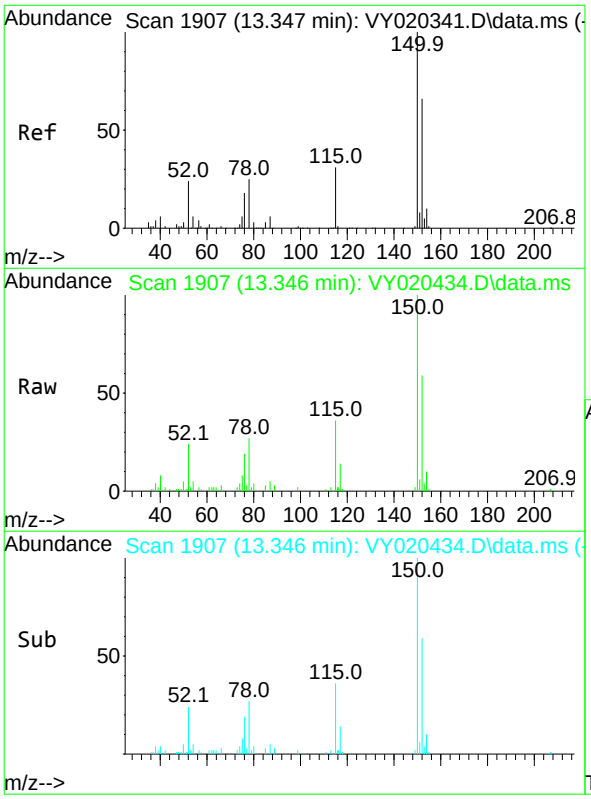
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020434.D
Acq: 25 Nov 2024 16:57

Instrument :
MSVOA_Y
ClientSampleId :
SW2

Tgt Ion:117 Resp: 33581

Ion	Ratio	Lower	Upper
117	100		
82	60.8	48.2	72.4
119	31.4	25.8	38.8

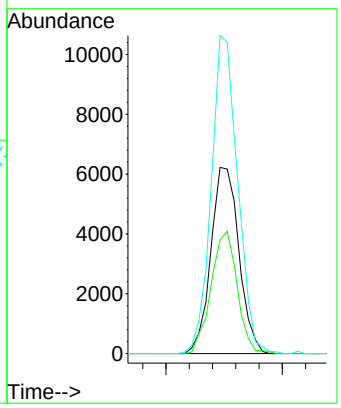




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY020434.D
Acq: 25 Nov 2024 16:57

Tgt Ion:152 Resp: 10419

Ion	Ratio	Lower	Upper
152	100		
115	61.5	30.0	90.0
150	161.2	0.0	348.2



Raw Data: **VX044043.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	SW3	SDG No.:	P4960
Lab Sample ID:	P4960-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	95.4
Sample Wt/Vol:	5.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044043.D	1		11/27/24 16:11	VX112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	69.7	U	69.7	520	ug/Kg
71-43-2	Benzene	74.9	U	74.9	520	ug/Kg
108-88-3	Toluene	69.7	U	69.7	520	ug/Kg
100-41-4	Ethyl Benzene	64.5	U	64.5	520	ug/Kg
179601-23-1	m/p-Xylenes	140	U	140	1000	ug/Kg
95-47-6	o-Xylene	72.8	U	72.8	520	ug/Kg
98-82-8	Isopropylbenzene	69.7	U	69.7	520	ug/Kg
103-65-1	n-propylbenzene	66.6	U	66.6	520	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	66.6	U	66.6	520	ug/Kg
98-06-6	tert-Butylbenzene	69.7	U	69.7	520	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	140	U	140	520	ug/Kg
135-98-8	sec-Butylbenzene	69.7	U	69.7	520	ug/Kg
99-87-6	p-Isopropyltoluene	60.3	U	60.3	520	ug/Kg
104-51-8	n-Butylbenzene	65.5	U	65.5	520	ug/Kg
91-20-3	Naphthalene	570		150	520	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.9		50 - 163	108%	SPK: 50
1868-53-7	Dibromofluoromethane	42.9		54 - 147	86%	SPK: 50
2037-26-5	Toluene-d8	50.4		58 - 134	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		29 - 146	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	101000	5.538			
540-36-3	1,4-Difluorobenzene	203000	6.757			
3114-55-4	Chlorobenzene-d5	183000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	82800	12.024			

Raw Data: **VX044043.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	SW3	SDG No.:	P4960
Lab Sample ID:	P4960-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	95.4
Sample Wt/Vol:	5.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044043.D	1		11/27/24 16:11	VX112724

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\VX112724\
Data File : VX044043.D
Acq On : 27 Nov 2024 16:11
Operator : JC/MD
Sample : P4960-05
Misc : 5.04g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
SW3

Quant Time: Nov 28 00:52:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	101230	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	203097	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	182737	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	82804	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	93530	53.868	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.740%			
35) Dibromofluoromethane	5.379	113	62319	42.942	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 85.880%			
50) Toluene-d8	8.647	98	252057	50.386	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.780%			
62) 4-Bromofluorobenzene	11.079	95	90357	53.073	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.140%			
Target Compounds						Qvalue
67) Ethyl Benzene	10.201	91	2706	0.398	ug/l #	87
68) m/p-Xylenes	10.305	106	1074	0.423	ug/l	91
95) Naphthalene	13.780	128	32689	5.519	ug/l	97

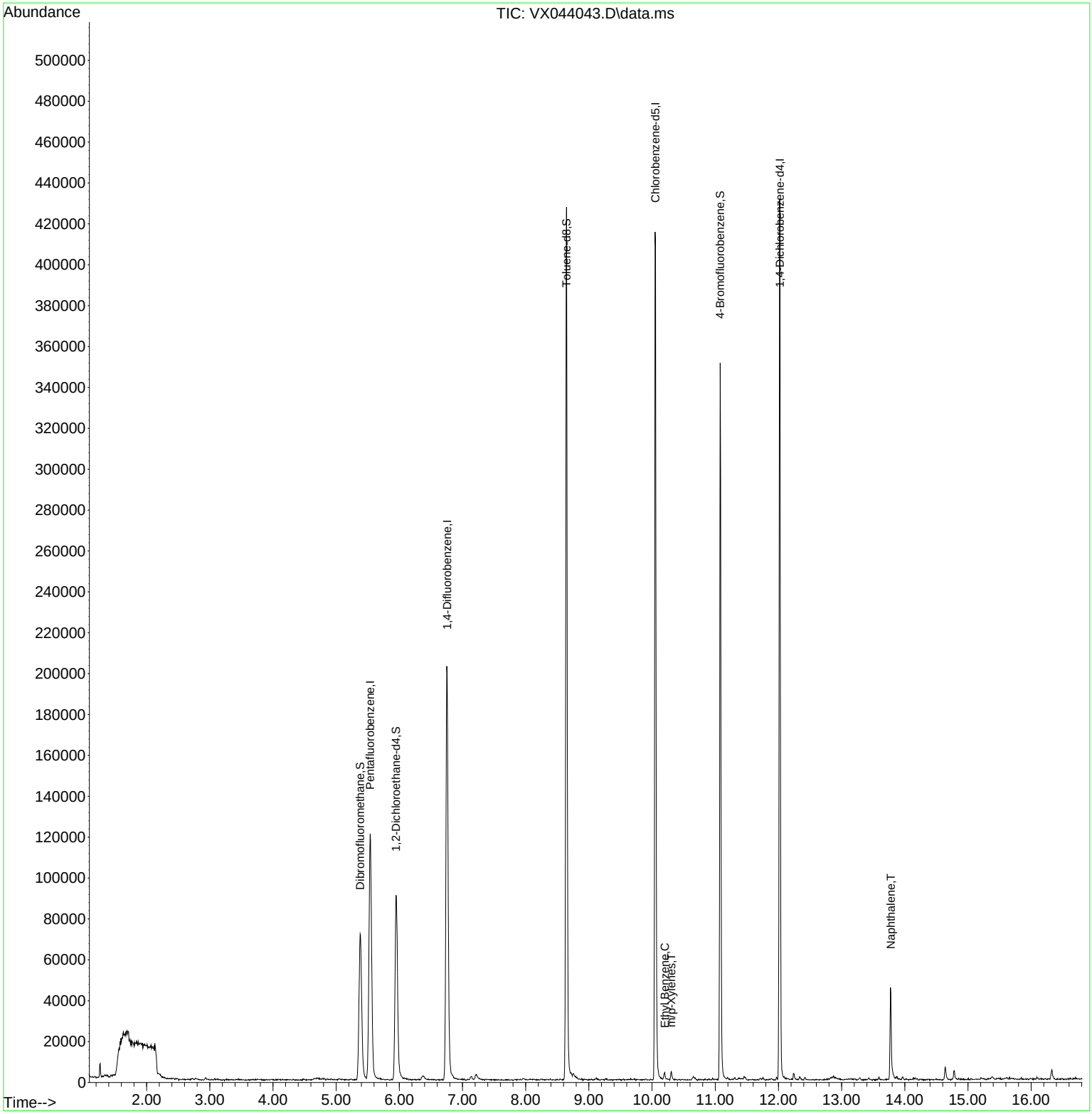
(#) = qualifier out of range (m) = manual integration (+) = signals summed

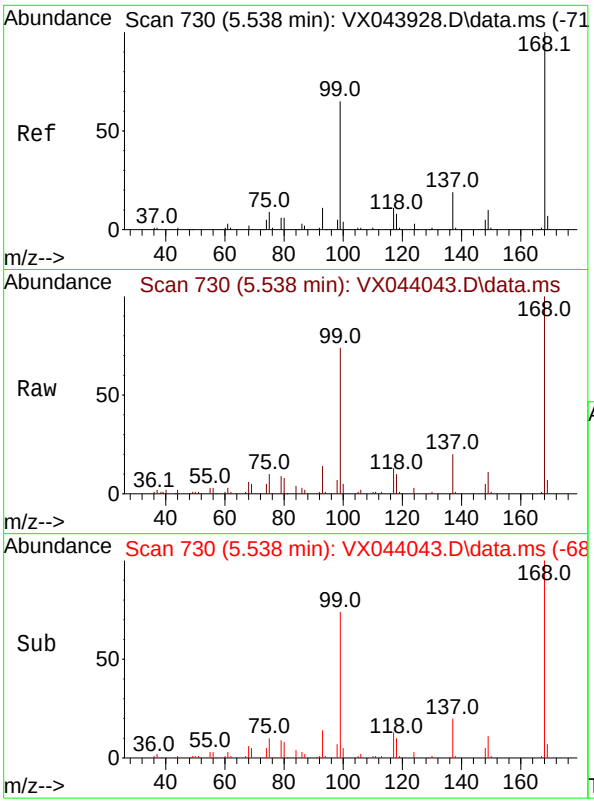
Sample Results: **VX044043.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044043.D
Acq On : 27 Nov 2024 16:11
Operator : JC/MD
Sample : P4960-05
Misc : 5.04g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
SW3

Quant Time: Nov 28 00:52:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration



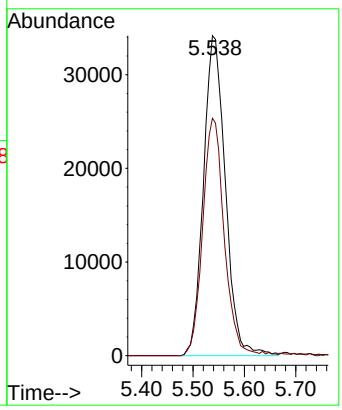


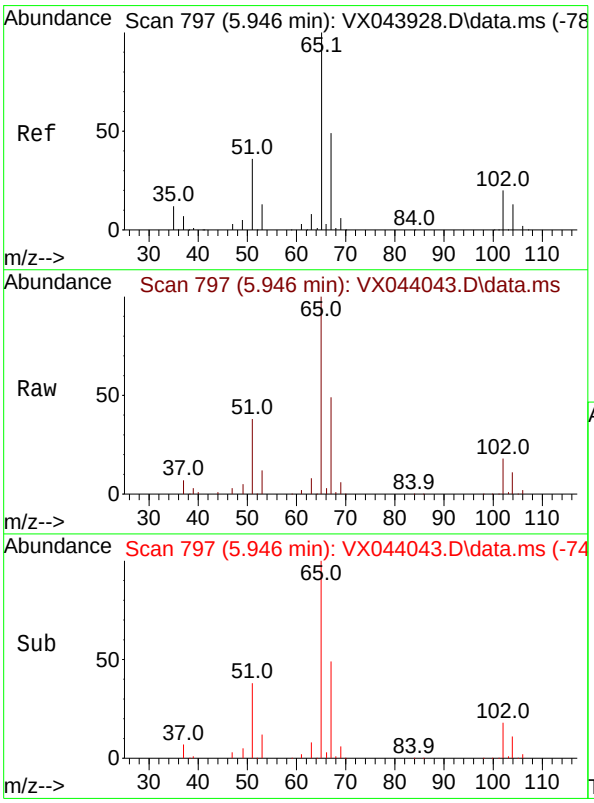
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044043.D
Acq: 27 Nov 2024 16:11

Instrument :
MSVOA_X
ClientSampleId :
SW3

Tgt Ion:168 Resp: 101230

Ion	Ratio	Lower	Upper
168	100		
99	74.2	51.8	77.8

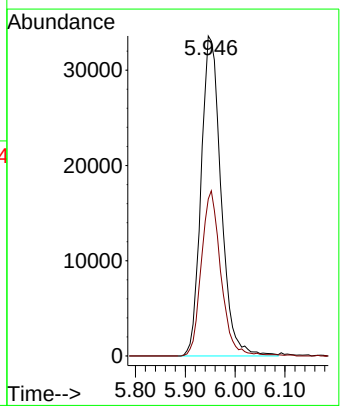


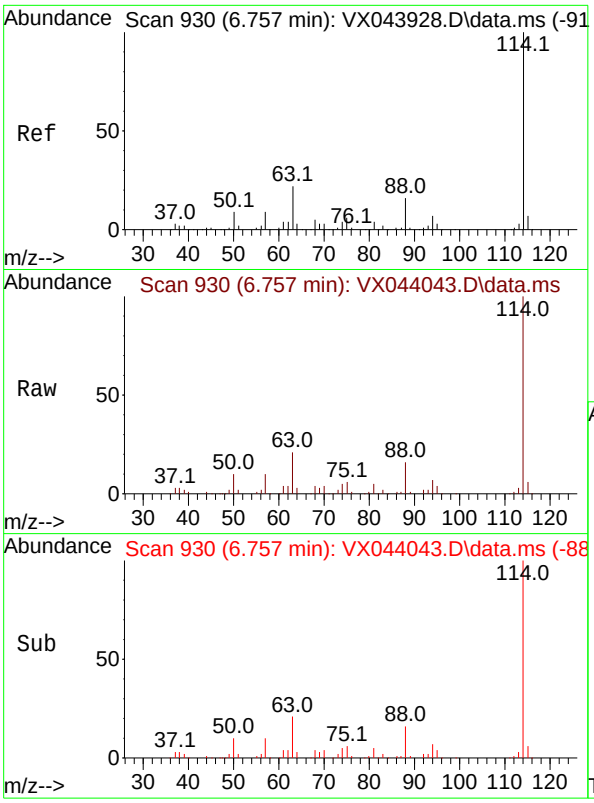


#33
1,2-Dichloroethane-d4
Concen: 53.868 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.000 min
Lab File: VX044043.D
Acq: 27 Nov 2024 16:11

Tgt Ion: 65 Resp: 93530

Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	100.8



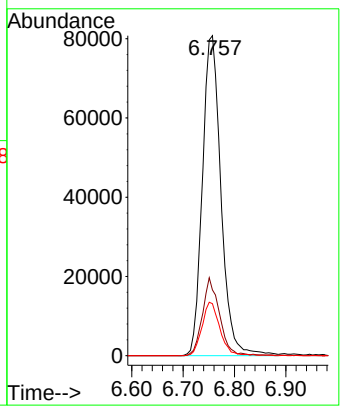


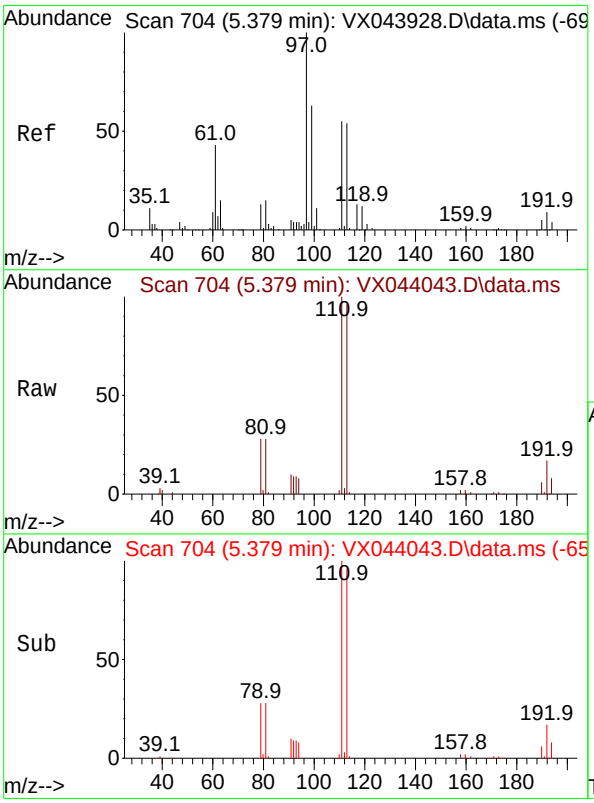
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX044043.D
Acq: 27 Nov 2024 16:11

Instrument :
MSVOA_X
ClientSampleId :
SW3

Tgt Ion:114 Resp: 203097

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	44.0
88	16.2	0.0	32.4

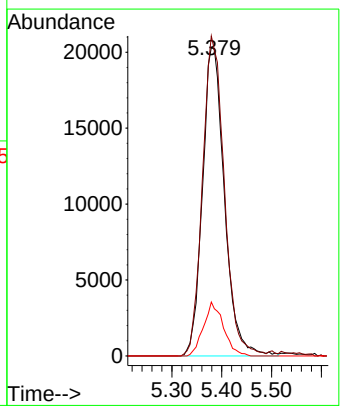


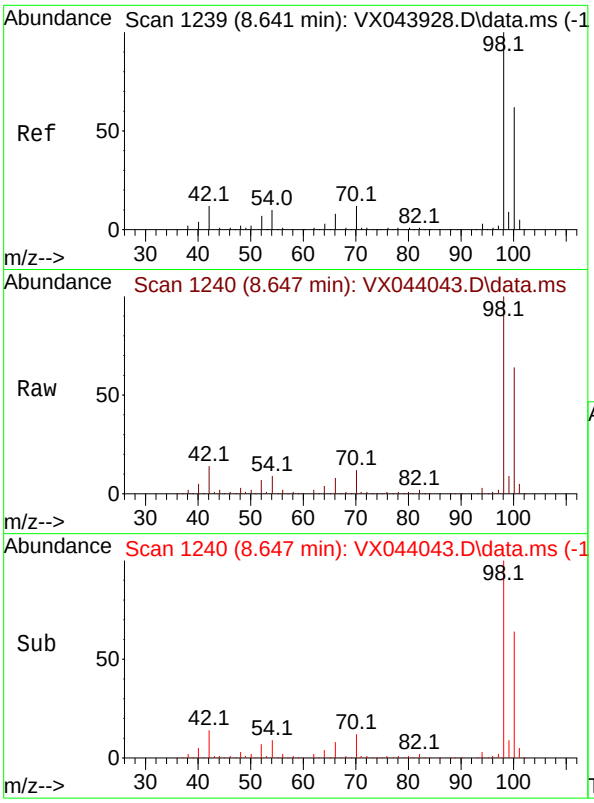


#35
Dibromofluoromethane
Concen: 42.942 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044043.D
Acq: 27 Nov 2024 16:11

Tgt Ion:113 Resp: 62319

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.0	121.4
192	15.9	13.0	19.6



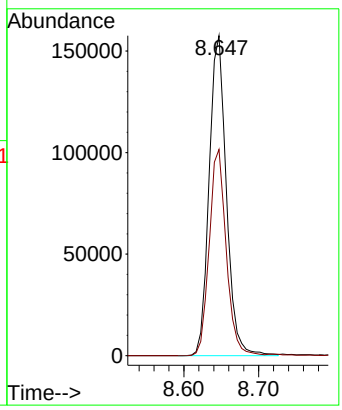


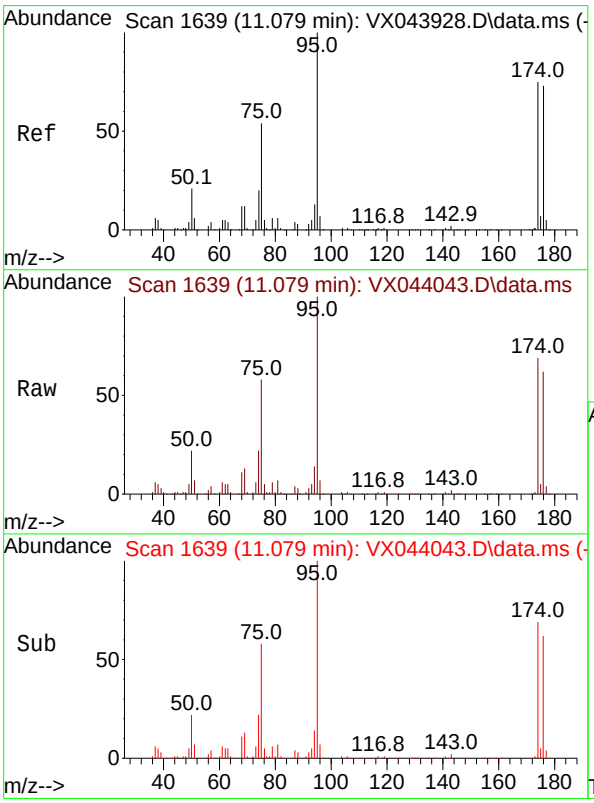
#50
Toluene-d8
Concen: 50.386 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044043.D
Acq: 27 Nov 2024 16:11

Instrument :
MSVOA_X
ClientSampleId :
SW3

Tgt Ion: 98 Resp: 252057

Ion	Ratio	Lower	Upper
98	100		
100	63.6	52.6	79.0

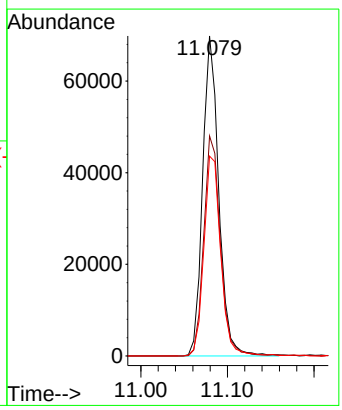


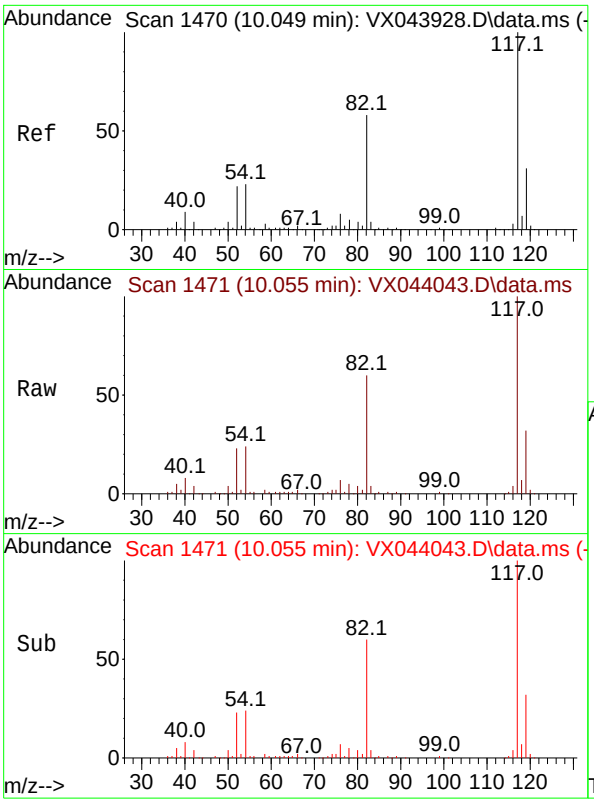


#62
4-Bromofluorobenzene
Concen: 53.073 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044043.D
Acq: 27 Nov 2024 16:11

Tgt Ion: 95 Resp: 90357

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	150.4
176	65.6	0.0	146.0



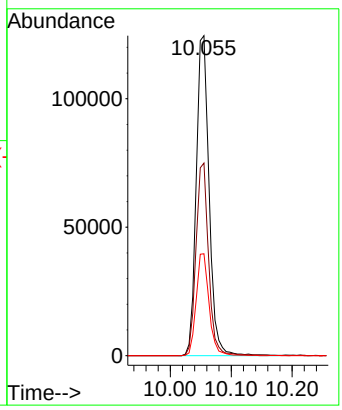


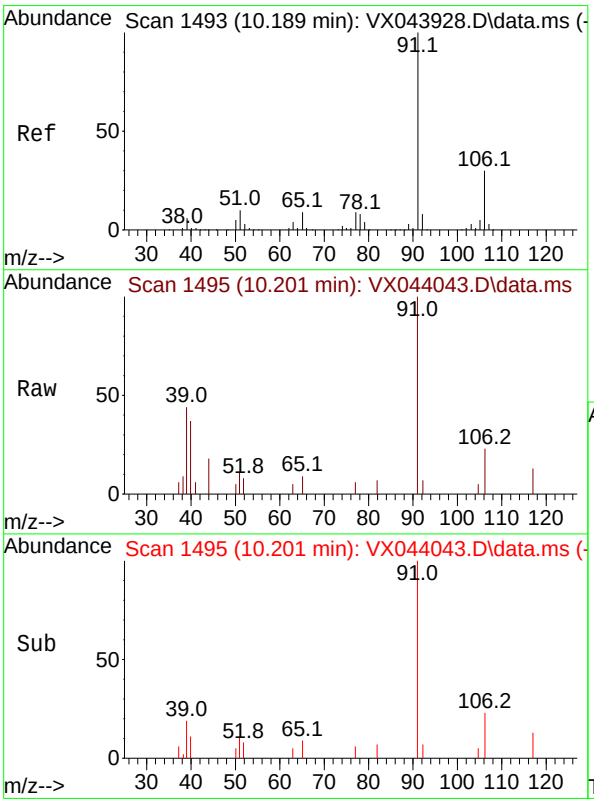
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044043.D
Acq: 27 Nov 2024 16:11

Instrument :
MSVOA_X
ClientSampleId :
SW3

Tgt Ion:117 Resp: 182737

Ion	Ratio	Lower	Upper
117	100		
82	60.2	46.4	69.6
119	31.9	24.6	37.0

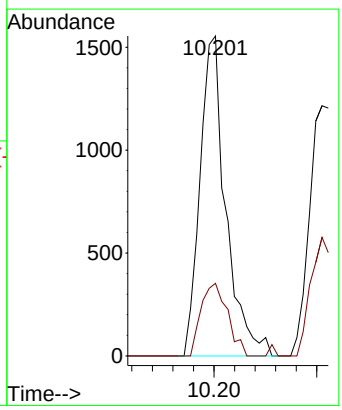


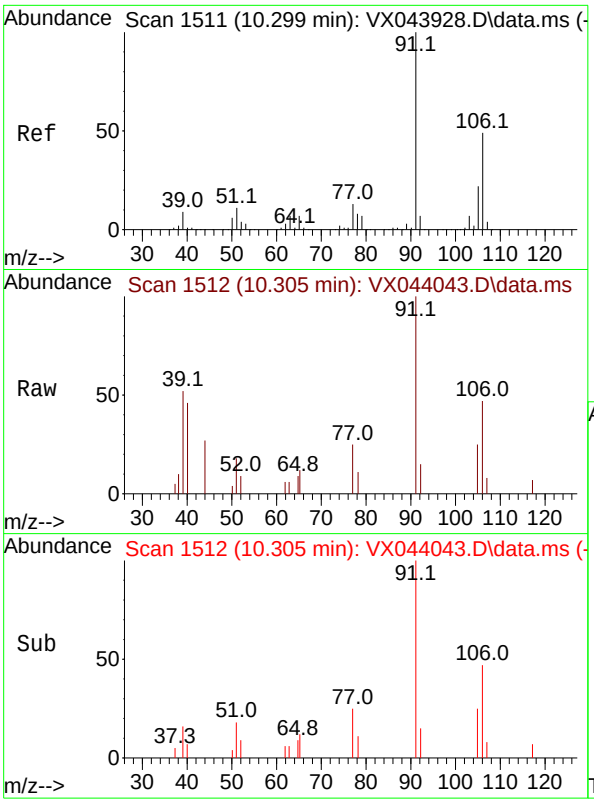


#67
Ethyl Benzene
Concen: 0.398 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. 0.012 min
Lab File: VX044043.D
Acq: 27 Nov 2024 16:11

Tgt Ion: 91 Resp: 2706

Ion	Ratio	Lower	Upper
91	100		
106	22.7	23.6	35.4#



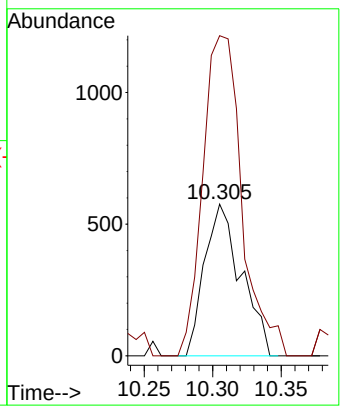


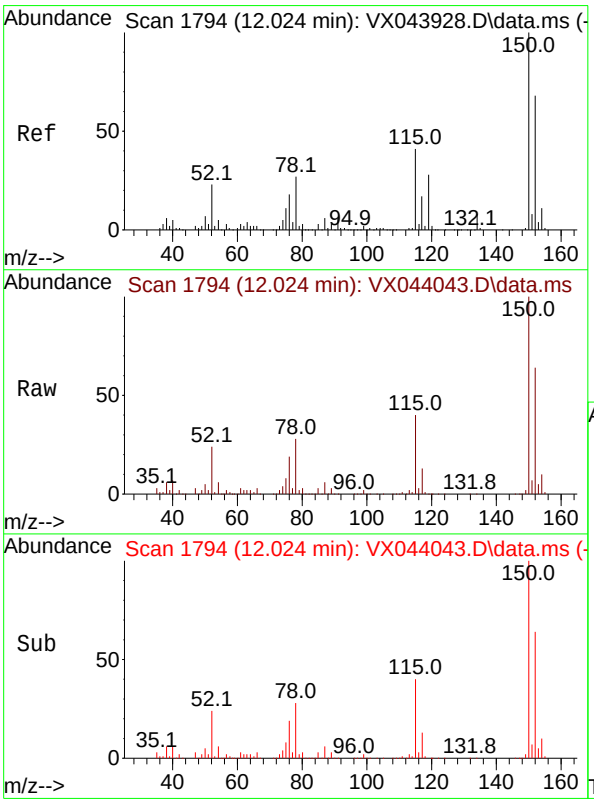
#68
m/p-Xylenes
Concen: 0.423 ug/l
RT: 10.305 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044043.D
Acq: 27 Nov 2024 16:11

Instrument :
MSVOA_X
ClientSampleId :
SW3

Tgt Ion:106 Resp: 1074

Ion	Ratio	Lower	Upper
106	100		
91	224.4	168.1	252.1

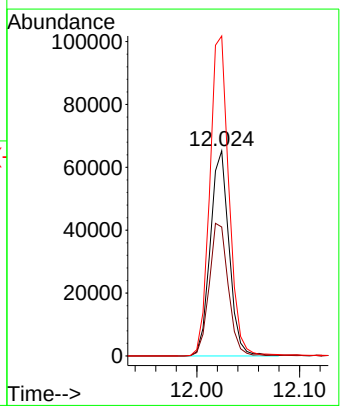


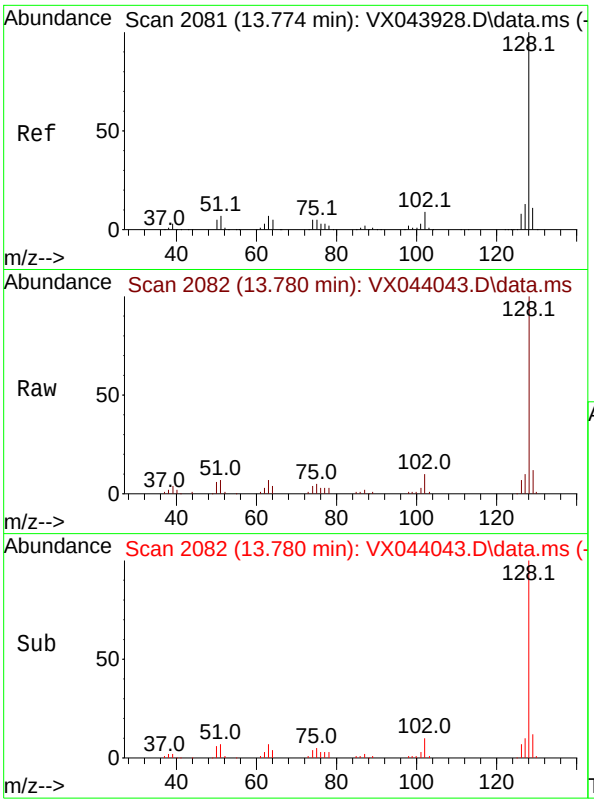


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX044043.D
Acq: 27 Nov 2024 16:11

Tgt Ion:152 Resp: 82804

Ion	Ratio	Lower	Upper
152	100		
115	65.7	45.4	136.2
150	159.2	0.0	353.0



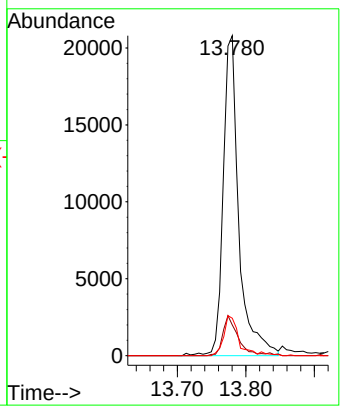


#95
Naphthalene
Concen: 5.519 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044043.D
Acq: 27 Nov 2024 16:11

Instrument :
MSVOA_X
ClientSampleId :
SW3

Tgt Ion:128 Resp: 32689

Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.2	15.2
129	12.3	8.6	12.8



Raw Data: **VY020436.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	SW4	SDG No.:	P4960
Lab Sample ID:	P4960-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	96.5
Sample Wt/Vol:	5.1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020436.D	1		11/25/24 17:44	VY112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.68	U	0.68	5.10	ug/Kg
71-43-2	Benzene	0.73	UQ	0.73	5.10	ug/Kg
108-88-3	Toluene	0.68	UQ	0.68	5.10	ug/Kg
100-41-4	Ethyl Benzene	0.63	UQ	0.63	5.10	ug/Kg
179601-23-1	m/p-Xylenes	1.40	UQ	1.40	10.2	ug/Kg
95-47-6	o-Xylene	0.71	UQ	0.71	5.10	ug/Kg
98-82-8	Isopropylbenzene	0.68	U	0.68	5.10	ug/Kg
103-65-1	n-propylbenzene	0.65	U	0.65	5.10	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.65	UQ	0.65	5.10	ug/Kg
98-06-6	tert-Butylbenzene	0.68	U	0.68	5.10	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.40	U	1.40	5.10	ug/Kg
135-98-8	sec-Butylbenzene	0.68	U	0.68	5.10	ug/Kg
99-87-6	p-Isopropyltoluene	0.59	U	0.59	5.10	ug/Kg
104-51-8	n-Butylbenzene	0.64	U	0.64	5.10	ug/Kg
91-20-3	Naphthalene	1.50	U	1.50	5.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	23.7	*	50 - 163	47%	SPK: 50
1868-53-7	Dibromofluoromethane	42.5		54 - 147	85%	SPK: 50
2037-26-5	Toluene-d8	43.1		58 - 134	86%	SPK: 50
460-00-4	4-Bromofluorobenzene	21.0		29 - 146	42%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	16400	7.713			
540-36-3	1,4-Difluorobenzene	22400	8.616			
3114-55-4	Chlorobenzene-d5	13800	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	2510	13.347			

Raw Data: **VY020436.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	SW4	SDG No.:	P4960
Lab Sample ID:	P4960-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	96.5
Sample Wt/Vol:	5.1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020436.D	1		11/25/24 17:44	VY112524

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: **VY020436.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020436.D
Acq On : 25 Nov 2024 17:44
Operator : SY/MD
Sample : P4960-06
Misc : 5.10g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SW4

Quant Time: Nov 26 00:47:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	16447	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	22399	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	13787	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	2505	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	4476	23.688	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	47.380%#		
35) Dibromofluoromethane	7.640	113	6106	42.512	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	85.020%		
50) Toluene-d8	10.109	98	24372	43.076	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	86.160%		
62) 4-Bromofluorobenzene	12.408	95	3817	20.986	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	41.980%		
Target Compounds						Qvalue

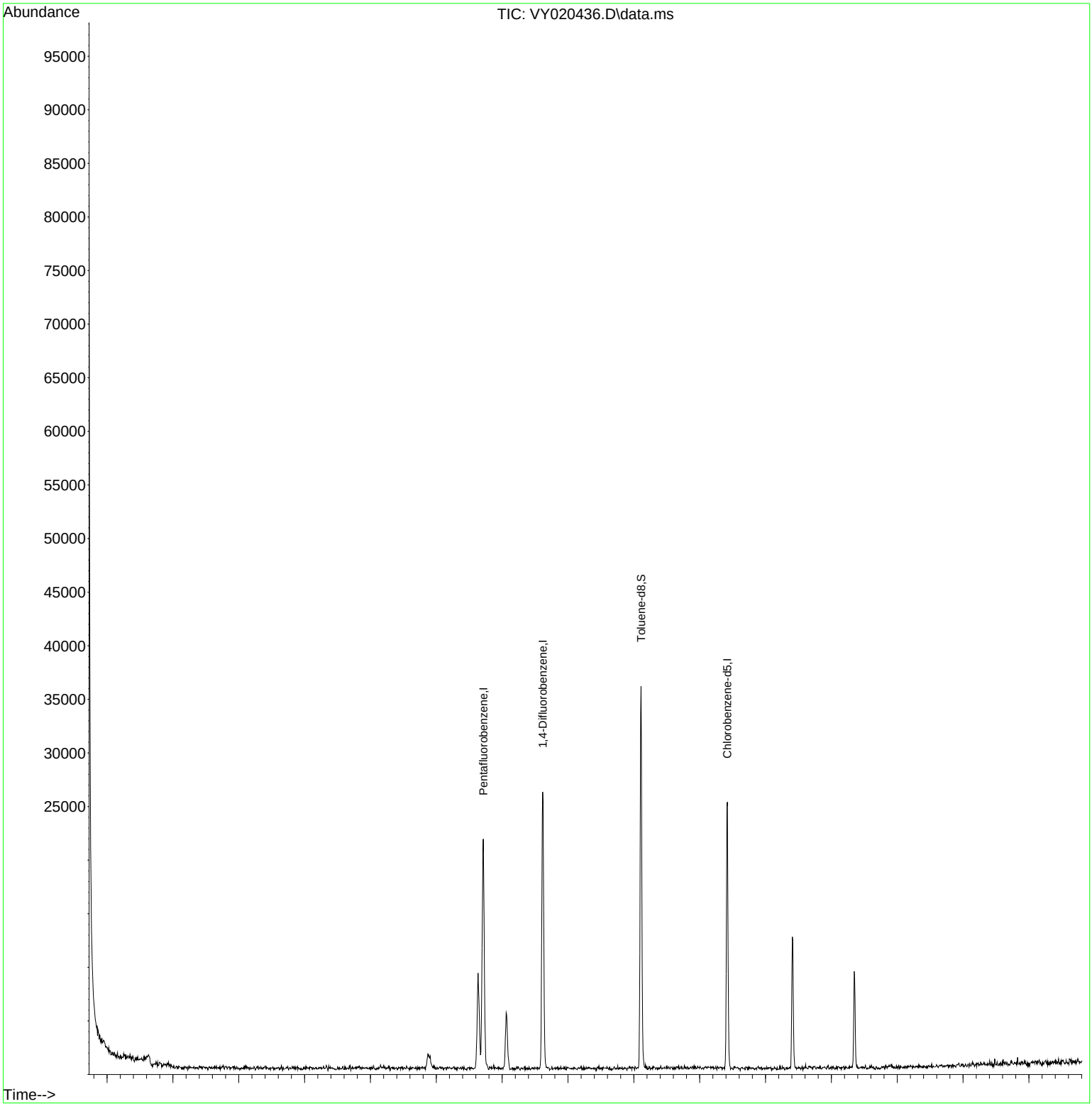
(#) = qualifier out of range (m) = manual integration (+) = signals summed

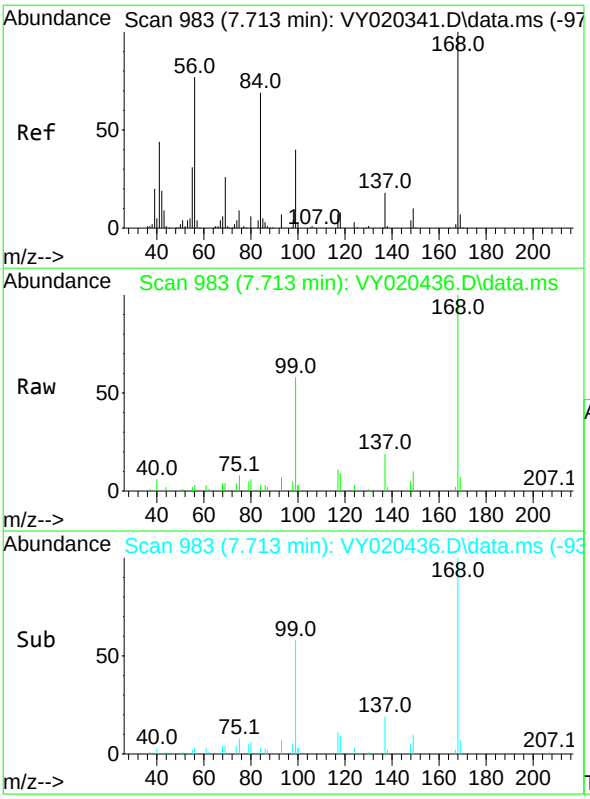
Sample Results: **VY020436.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020436.D
Acq On : 25 Nov 2024 17:44
Operator : SY/MD
Sample : P4960-06
Misc : 5.10g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SW4

Quant Time: Nov 26 00:47:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



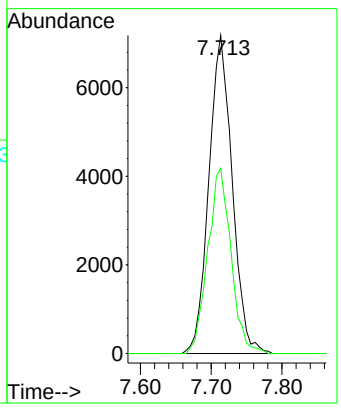


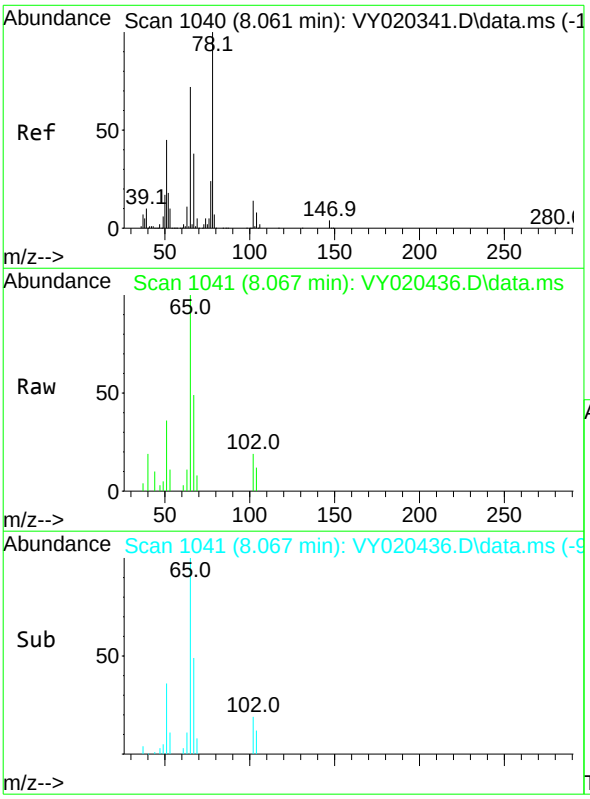
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020436.D
Acq: 25 Nov 2024 17:44

Instrument :
MSVOA_Y
ClientSampleId :
SW4

Tgt Ion:168 Resp: 16447

Ion	Ratio	Lower	Upper
168	100		
99	58.2	46.6	69.8

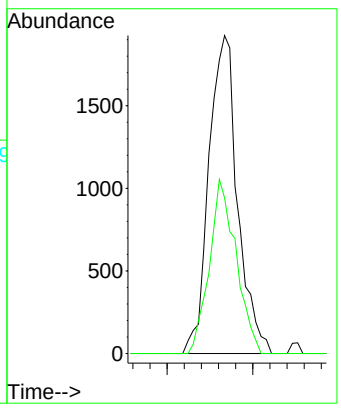


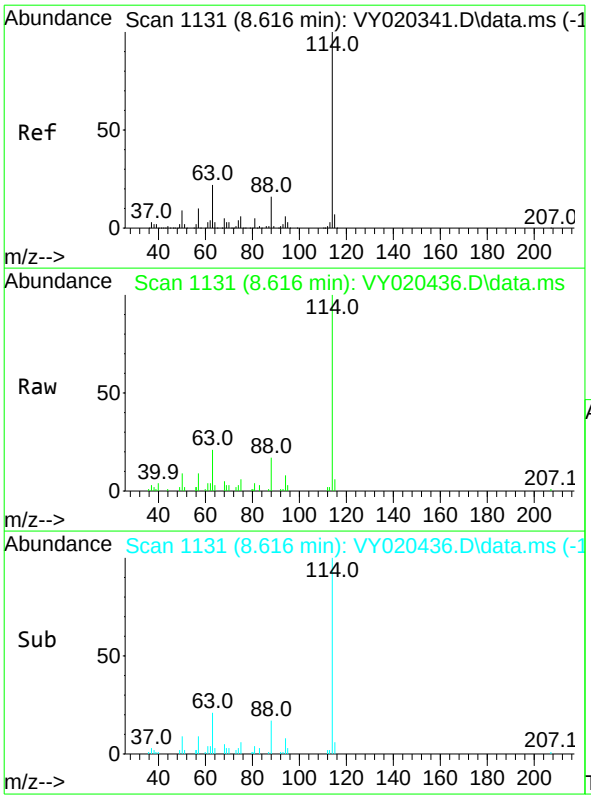


#33
1,2-Dichloroethane-d4
Concen: 23.688 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY020436.D
Acq: 25 Nov 2024 17:44

Tgt Ion: 65 Resp: 4476

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	105.8



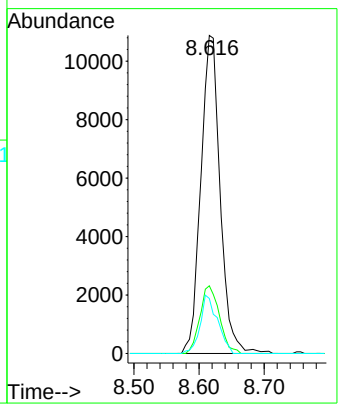


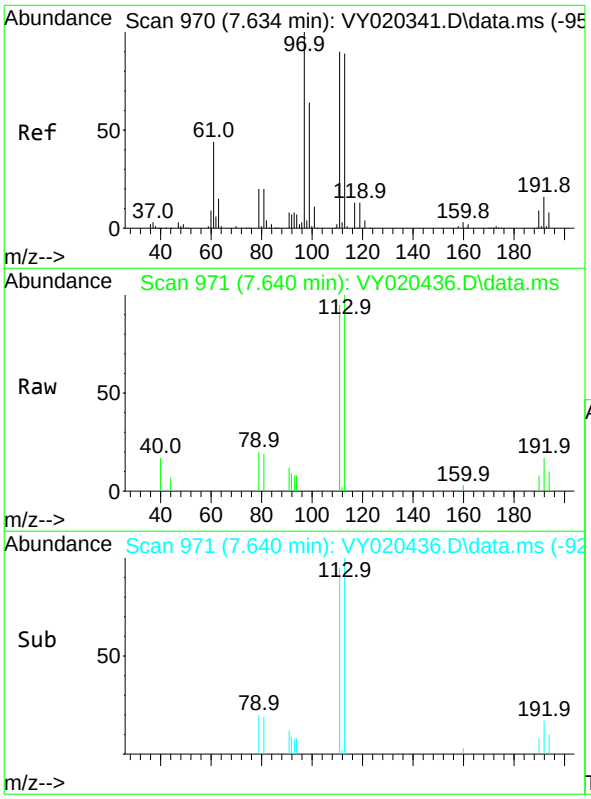
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020436.D
Acq: 25 Nov 2024 17:44

Instrument :
MSVOA_Y
ClientSampleId :
SW4

Tgt Ion:114 Resp: 22399

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	44.8
88	17.3	0.0	32.0

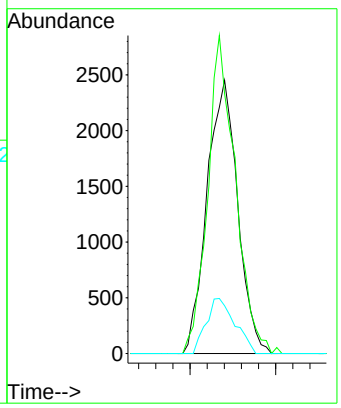


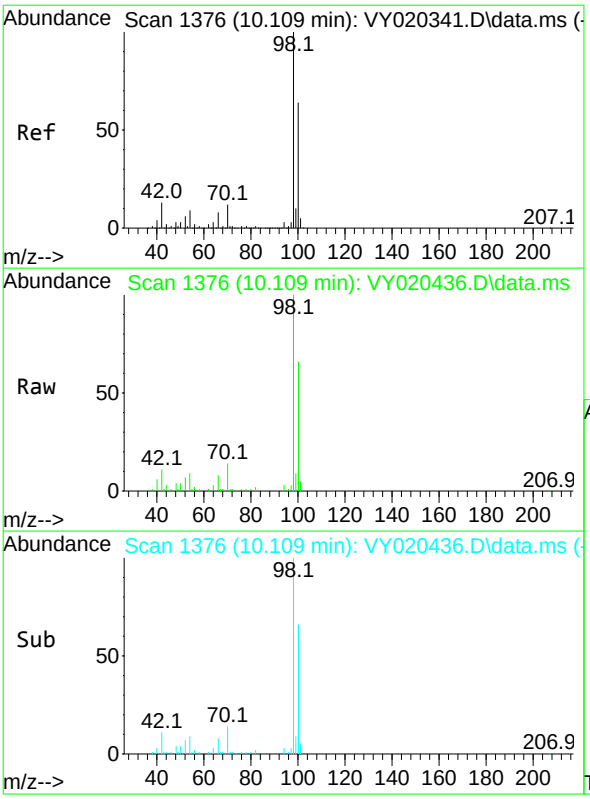


#35
Dibromofluoromethane
Concen: 42.512 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020436.D
Acq: 25 Nov 2024 17:44

Tgt Ion:113 Resp: 6106

Ion	Ratio	Lower	Upper
113	100		
111	105.0	81.4	122.0
192	18.8	15.1	22.7



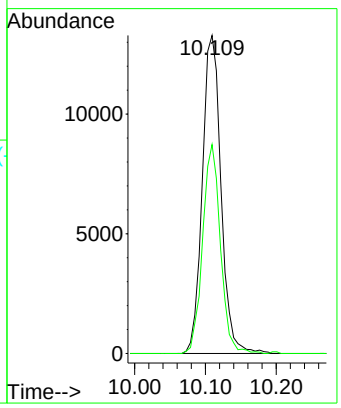


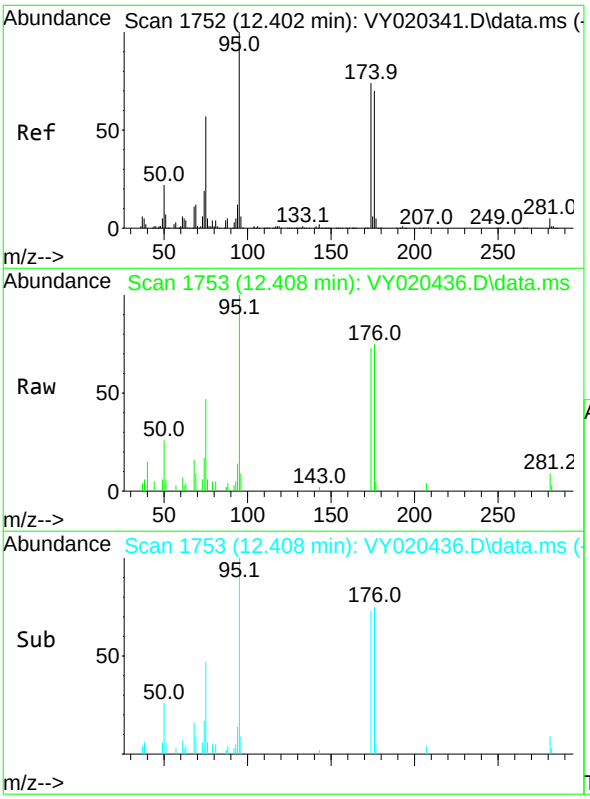
#50
Toluene-d8
Concen: 43.076 ug/l
RT: 10.109 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020436.D
Acq: 25 Nov 2024 17:44

Instrument :
MSVOA_Y
ClientSampleId :
SW4

Tgt Ion: 98 Resp: 24372

Ion	Ratio	Lower	Upper
98	100		
100	62.5	51.3	76.9

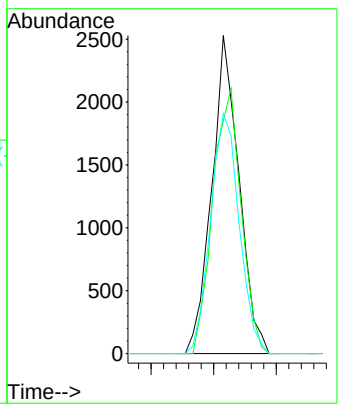


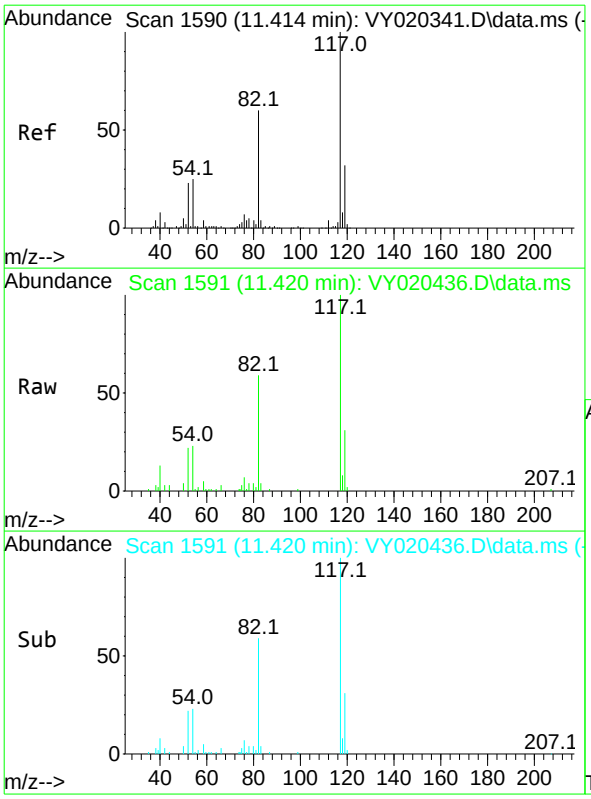


#62
4-Bromofluorobenzene
Concen: 20.986 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020436.D
Acq: 25 Nov 2024 17:44

Tgt Ion: 95 Resp: 3817

Ion	Ratio	Lower	Upper
95	100		
174	86.8	0.0	156.8
176	79.7	0.0	152.0



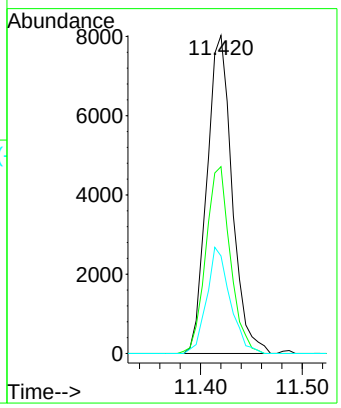


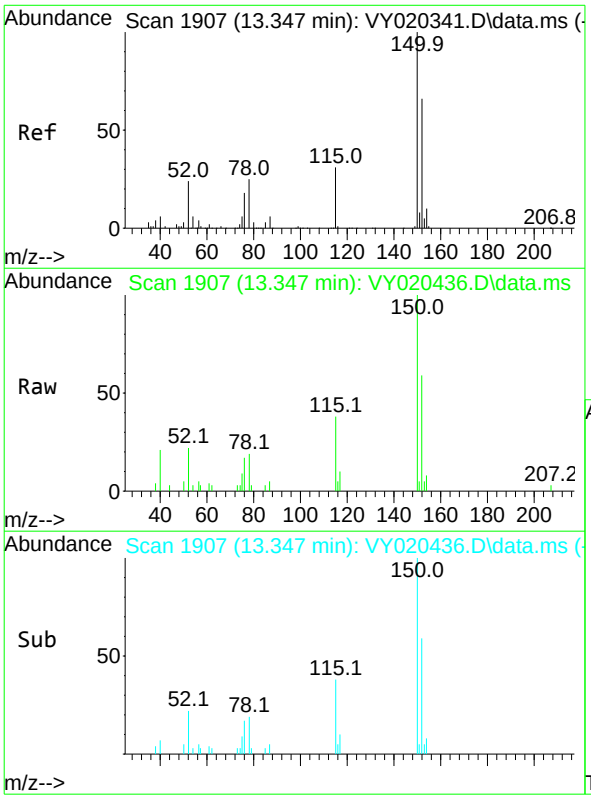
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020436.D
Acq: 25 Nov 2024 17:44

Instrument :
MSVOA_Y
ClientSampleId :
SW4

Tgt Ion:117 Resp: 13787

Ion	Ratio	Lower	Upper
117	100		
82	58.7	48.2	72.4
119	30.7	25.8	38.8

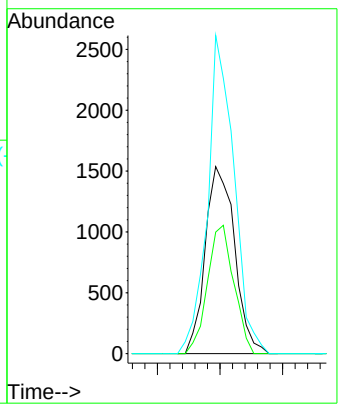




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020436.D
Acq: 25 Nov 2024 17:44

Tgt Ion:152 Resp: 2505

Ion	Ratio	Lower	Upper
152	100		
115	61.6	30.0	90.0
150	153.1	0.0	348.2



CALIBRATION SUMMARY

Raw Data

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG No.: P4960

Instrument ID: MSVOA_X Calibration Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Calibration Time(s): 09:47 12:03

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

LAB FILE ID: RRF001 = VX043925.D RRF005 = VX043926.D RRF020 = VX043927.D
RRF050 = VX043928.D RRF100 = VX043929.D RRF150 = VX043930.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Methyl tert-butyl Ether	1.732	1.991	2.212	2.264	2.160	2.192	2.092	9.5
Benzene	1.211	1.369	1.457	1.494	1.388	1.402	1.387	7
Toluene	0.636	0.839	0.883	0.921	0.850	0.852	0.830	12
Ethyl Benzene	1.579	1.831	1.910	2.024	1.884	1.938	1.861	8.2
m/p-Xylenes	0.610	0.663	0.704	0.762	0.700	0.725	0.694	7.6
o-Xylene	0.543	0.665	0.691	0.757	0.693	0.716	0.678	10.7
Isopropylbenzene	3.435	3.927	3.996	4.097	3.679	3.927	3.843	6.3
n-propylbenzene	3.667	4.115	4.469	4.733	4.286	4.486	4.293	8.6
1,3,5-Trimethylbenzene	2.704	3.115	3.352	3.444	3.118	3.238	3.162	8.2
tert-Butylbenzene	2.581	3.097	3.266	3.440	3.152	3.269	3.134	9.4
1,2,4-Trimethylbenzene	2.557	3.173	3.366	3.440	3.124	3.228	3.148	9.9
sec-Butylbenzene	3.116	3.921	3.968	4.249	3.812	3.974	3.840	10
p-Isopropyltoluene	2.255	3.043	3.316	3.521	3.219	3.362	3.119	14.5
n-Butylbenzene	1.897	2.580	2.805	3.184	2.909	3.126	2.750	17.2
Naphthalene	2.605	3.361	3.698	4.005	3.733	4.058	3.576	15
1,2-Dichloroethane-d4		0.926	0.876	0.751	0.855	0.880	0.858	7.6
Dibromofluoromethane		0.371	0.353	0.327	0.359	0.376	0.357	5.4
Toluene-d8		1.327	1.237	1.104	1.232	1.257	1.232	6.6
4-Bromofluorobenzene		0.401	0.414	0.387	0.438	0.455	0.419	6.6

* 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 : 82X112124W.M
Title : SW846 8260
Last Update : Fri Nov 22 03:45:52 2024
Response Via : Initial Calibration

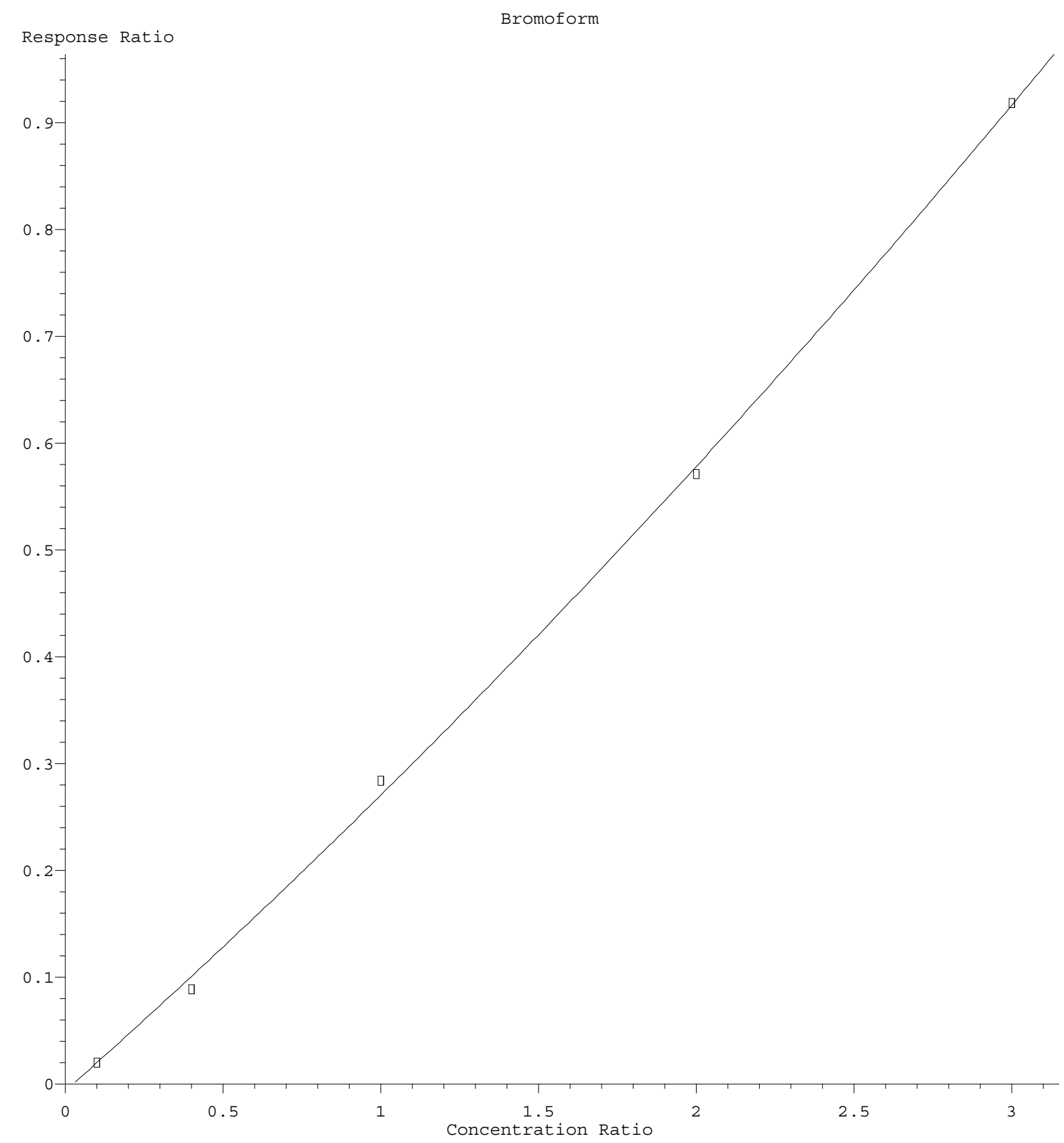
Calibration Files
1 =VX043925.D 5 =VX043926.D 20 =VX043927.D 50 =VX043928.D 100 =VX043929.D 150 =VX043930.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.634	0.633	0.641	0.684	0.601	0.608	0.633	4.64
3)	P	Chloromethane	0.578	0.662	0.720	0.697	0.665	0.677	0.667	7.26
4)	C	Vinyl Chloride	0.675	0.708	0.730	0.762	0.695	0.684	0.709	4.56#
5)	T	Bromomethane		0.425	0.438	0.445	0.429	0.442	0.436	1.95
6)	T	Chloroethane	0.579	0.429	0.404	0.459	0.368	0.354	0.432	18.87
7)	T	Trichlorofluor...	1.038	1.267	1.335	1.357	1.281	1.328	1.268	9.27
8)	T	Diethyl Ether	0.477	0.430	0.470	0.474	0.455	0.467	0.462	3.80
9)	T	1,1,2-Trichlor...	0.592	0.585	0.605	0.658	0.589	0.599	0.605	4.47
10)	T	Methyl Iodide		0.656	0.782	0.809	0.773	0.755	0.755	7.75
11)	T	Tert butyl alc...		0.123	0.133	0.145	0.134	0.154	0.138	8.73
12)	CM	1,1-Dichloroet...	0.596	0.530	0.585	0.600	0.572	0.576	0.576	4.38#
13)	T	Acrolein		0.158	0.128	0.145	0.145	0.148	0.145	7.53
14)	T	Allyl chloride	0.796	0.854	0.964	1.044	0.998	0.993	0.941	10.17
15)	T	Acrylonitrile	0.301	0.322	0.343	0.370	0.332	0.345	0.335	6.97
16)	T	Acetone	0.401	0.396	0.401	0.425	0.370	0.370	0.394	5.39
17)	T	Carbon Disulfide	1.082	0.956	1.078	1.287	1.330	1.398	1.188	14.64
18)	T	Methyl Acetate	0.931	0.871	0.911	0.987	0.894	0.910	0.917	4.32
19)	T	Methyl tert-bu...	1.732	1.991	2.212	2.264	2.160	2.192	2.092	9.52
20)	T	Methylene Chlo...	0.704	0.656	0.684	0.667	0.643	0.655	0.668	3.33
21)	T	trans-1,2-Dich...	0.545	0.563	0.609	0.633	0.600	0.619	0.595	5.72
22)	T	Diisopropyl ether	1.638	1.930	2.170	2.162	2.071	2.106	2.013	10.09
23)	T	Vinyl Acetate	1.244	1.542	1.833	1.941	1.858	1.914	1.722	15.93
24)	P	1,1-Dichloroet...	0.980	1.118	1.221	1.256	1.185	1.208	1.161	8.63
25)	T	2-Butanone	0.448	0.486	0.538	0.567	0.500	0.510	0.508	8.10
26)	T	2,2-Dichloropr...	0.902	0.997	1.062	1.141	1.082	1.109	1.049	8.28
27)	T	cis-1,2-Dichlo...	0.674	0.673	0.761	0.792	0.745	0.767	0.735	6.83
28)	T	Bromochloromet...	0.501	0.611	0.482	0.450	0.500	0.523	0.511	10.68
29)	T	Tetrahydrofuran	0.286	0.312	0.319	0.338	0.303	0.311	0.312	5.49
30)	C	Chloroform	1.070	1.238	1.309	1.316	1.269	1.293	1.249	7.41#
31)	T	Cyclohexane		0.911	0.976	1.041	0.926	0.925	0.956	5.60
32)	T	1,1,1-Trichlor...	0.873	1.005	1.133	1.184	1.119	1.149	1.077	10.86
33)	S	1,2-Dichloroet...		0.926	0.876	0.751	0.855	0.880	0.858	7.57
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.371	0.353	0.327	0.359	0.376	0.357	5.43
36)	T	1,1-Dichloropr...	0.382	0.430	0.449	0.494	0.452	0.465	0.445	8.36
37)	T	Ethyl Acetate	0.517	0.549	0.549	0.610	0.539	0.552	0.553	5.61
38)	T	Carbon Tetrach...	0.439	0.466	0.491	0.558	0.520	0.528	0.500	8.69
39)	T	Methylcyclohexane	0.544	0.556	0.564	0.656	0.574	0.576	0.578	6.91
40)	TM	Benzene	1.211	1.369	1.457	1.494	1.388	1.402	1.387	7.04
41)	T	Methacrylonitrile	0.219	0.278	0.292	0.329	0.291	0.289	0.283	12.67
42)	TM	1,2-Dichloroet...	0.499	0.546	0.585	0.603	0.551	0.558	0.557	6.41
43)	T	Isopropyl Acetate	0.745	0.840	0.893	0.976	0.894	0.928	0.880	9.07
44)	TM	Trichloroethene	0.547	0.372	0.368	0.373	0.345	0.352	0.393	19.47
45)	C	1,2-Dichloropr...	0.288	0.322	0.361	0.371	0.346	0.350	0.340	8.84#
46)	T	Dibromomethane	0.239	0.240	0.280	0.293	0.276	0.284	0.269	8.58
47)	T	Bromodichlorom...	0.349	0.425	0.501	0.544	0.528	0.545	0.482	16.40
48)	T	Methyl methacr...	0.387	0.385	0.423	0.467	0.427	0.443	0.422	7.57
49)	T	1,4-Dioxane	0.006	0.008	0.008	0.008	0.008	0.007	0.008	11.13
50)	S	Toluene-d8		1.327	1.237	1.104	1.232	1.257	1.232	6.58
51)	T	4-Methyl-2-Pen...	0.437	0.527	0.562	0.606	0.539	0.548	0.537	10.41
52)	CM	Toluene	0.636	0.839	0.883	0.921	0.850	0.852	0.830	12.02#
53)	T	t-1,3-Dichloro...	0.341	0.413	0.507	0.569	0.549	0.570	0.491	19.21
54)	T	cis-1,3-Dichlo...	0.409	0.462	0.569	0.611	0.580	0.601	0.539	15.38
55)	T	1,1,2-Trichlor...	0.287	0.340	0.375	0.370	0.340	0.345	0.343	9.13

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X112124W.M

56)	T	Ethyl methacry...	0.379	0.467	0.571	0.614	0.582	0.590	0.534	17.12
57)	T	1,3-Dichloropr...	0.480	0.574	0.620	0.625	0.579	0.585	0.577	9.04
58)	T	2-Chloroethyl ...	0.159	0.327	0.276	0.307	0.284	0.287	0.273	21.65
59)	T	2-Hexanone	0.297	0.393	0.431	0.471	0.410	0.419	0.403	14.49
60)	T	Dibromochlorom...	0.249	0.292	0.344	0.396	0.380	0.401	0.344	17.98
61)	T	1,2-Dibromoethane	0.258	0.339	0.373	0.385	0.358	0.367	0.346	13.33
62)	S	4-Bromofluorob...		0.401	0.414	0.387	0.438	0.455	0.419	6.61
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.304	0.342	0.336	0.349	0.315	0.332	0.330	5.14
65)	PM	Chlorobenzene	1.050	1.109	1.107	1.145	1.069	1.108	1.098	3.05
66)	T	1,1,1,2-Tetrac...	0.260	0.332	0.371	0.395	0.382	0.396	0.356	14.75
67)	C	Ethyl Benzene	1.579	1.831	1.910	2.024	1.884	1.938	1.861	8.19#
68)	T	m/p-Xylenes	0.610	0.663	0.704	0.762	0.700	0.725	0.694	7.57
69)	T	o-Xylene	0.543	0.665	0.691	0.757	0.693	0.716	0.678	10.75
70)	T	Styrene	0.859	1.025	1.174	1.263	1.186	1.217	1.121	13.47
71)	P	Bromoform	0.145	0.200	0.222	0.284	0.286	0.306	0.240	25.88
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.435	3.927	3.996	4.097	3.679	3.927	3.843	6.32
74)	T	N-amyl acetate	1.249	1.648	1.867	1.996	1.895	2.029	1.780	16.45
75)	P	1,1,2,2-Tetrac...	1.198	1.356	1.375	1.393	1.260	1.314	1.316	5.70
76)	T	1,2,3-Trichlor...	0.863	1.246	1.153	1.181	1.053	1.084	1.096	12.17
77)	T	Bromobenzene	0.794	0.958	0.955	0.975	0.883	0.936	0.917	7.40
78)	T	n-propylbenzene	3.667	4.115	4.469	4.733	4.286	4.486	4.293	8.63
79)	T	2-Chlorotoluene	2.487	2.766	2.868	2.857	2.581	2.726	2.714	5.62
80)	T	1,3,5-Trimethy...	2.704	3.115	3.352	3.444	3.118	3.238	3.162	8.19
81)	T	trans-1,4-Dich...		0.298	0.374	0.443	0.423	0.471	0.402	16.90
82)	T	4-Chlorotoluene	2.660	3.005	3.187	3.329	3.025	3.180	3.064	7.54
83)	T	tert-Butylbenzene	2.581	3.097	3.266	3.440	3.152	3.269	3.134	9.42
84)	T	1,2,4-Trimethy...	2.557	3.173	3.366	3.440	3.124	3.228	3.148	9.95
85)	T	sec-Butylbenzene	3.116	3.921	3.968	4.249	3.812	3.974	3.840	9.97
86)	T	p-Isopropyltol...	2.255	3.043	3.316	3.521	3.219	3.362	3.119	14.50
87)	T	1,3-Dichlorobe...	1.580	1.656	1.701	1.764	1.623	1.696	1.670	3.88
88)	T	1,4-Dichlorobe...	1.730	1.638	1.706	1.782	1.650	1.710	1.702	3.10
89)	T	n-Butylbenzene	1.897	2.580	2.805	3.184	2.909	3.126	2.750	17.18
90)	T	Hexachloroethane	0.450	0.443	0.496	0.588	0.581	0.625	0.530	14.64
91)	T	1,2-Dichlorobe...	1.506	1.733	1.723	1.768	1.642	1.740	1.685	5.79
92)	T	1,2-Dibromo-3-...	0.213	0.254	0.252	0.284	0.275	0.304	0.264	12.00
93)	T	1,2,4-Trichlor...	0.849	0.905	0.987	1.084	1.012	1.125	0.994	10.53
94)	T	Hexachlorobuta...	0.382	0.384	0.376	0.411	0.384	0.419	0.393	4.54
95)	T	Naphthalene	2.605	3.361	3.698	4.005	3.733	4.058	3.576	15.03
96)	T	1,2,3-Trichlor...	0.753	0.960	1.055	1.118	1.018	1.130	1.006	13.83

(#) = Out of Range



R = 1.533e-002 A*A + 2.616e-001 A - 6.311e-003
Coef of Det (r^2) = 0.999408 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X112124W.M
Calibration Table Last Updated: Fri Nov 22 03:45:52 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	138810	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	250758	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	211620	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	102312	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	123698	58.016	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.040%			
35) Dibromofluoromethane	5.379	113	92258	54.792	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.580%			
50) Toluene-d8	8.647	98	312682	55.587	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 111.180%			
62) 4-Bromofluorobenzene	11.079	95	112440	60.492	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 120.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	87148	62.046	ug/l	98
3) Chloromethane	1.294	50	98071	55.867	ug/l	99
4) Vinyl Chloride	1.374	62	98663	55.940	ug/l	97
5) Bromomethane	1.593	94	55648	69.459	ug/l	100
6) Chloroethane	1.660	64	49530	58.791	ug/l	99
7) Trichlorofluoromethane	1.867	101	174189	69.274	ug/l	100
8) Diethyl Ether	2.136	74	61407	64.776	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	78888	53.013	ug/l	98
10) Methyl Iodide	2.441	142	108199	51.664	ug/l	95
11) Tert butyl alcohol	3.001	59	96228	283.818	ug/l	99
12) 1,1-Dichloroethene	2.306	96	77411	53.599	ug/l	87
13) Acrolein	2.239	56	103637	272.556	ug/l	99
14) Allyl chloride	2.654	41	136615	58.343	ug/l	89
15) Acrylonitrile	3.068	53	241080	276.221	ug/l	98
16) Acetone	2.392	43	227575	265.748	ug/l	93
17) Carbon Disulfide	2.502	76	170454	54.052	ug/l	99
18) Methyl Acetate	2.703	43	128026	54.593	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	308920	57.868	ug/l	99
20) Methylene Chloride	2.782	84	92077	51.368	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	87463	55.548	ug/l	97
22) Diisopropyl ether	3.763	45	296742	58.005	ug/l	96
23) Vinyl Acetate	3.721	43	1303089	314.256	ug/l	98
24) 1,1-Dichloroethane	3.605	63	169925	56.478	ug/l	100
25) 2-Butanone	4.562	43	345310	288.244	ug/l	97
26) 2,2-Dichloropropane	4.465	77	141245	57.127	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	106274	54.236	ug/l	96
28) Bromochloromethane	4.891	49	68700	54.265	ug/l	94
29) Tetrahydrofuran	5.007	42	220135	284.374	ug/l	97
30) Chloroform	5.086	83	178903	57.044	ug/l	100
31) Cyclohexane	5.458	56	128800	52.818	ug/l	93
32) 1,1,1-Trichloroethane	5.379	97	155630	58.048	ug/l	98
36) 1,1-Dichloropropene	5.684	75	112658	53.685	ug/l	99
37) Ethyl Acetate	4.715	43	139478	59.057	ug/l	97
38) Carbon Tetrachloride	5.666	117	124606	56.086	ug/l	98
39) Methylcyclohexane	7.373	83	138032	52.543	ug/l	97
40) Benzene	6.031	78	349857	53.028	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	73757	59.928 ug/l		96
42) 1,2-Dichloroethane	6.080	62	141058	58.882 ug/l		97
43) Isopropyl Acetate	6.342	43	224533	60.266 ug/l		94
44) Trichloroethene	7.123	130	87313	48.004 ug/l		99
45) 1,2-Dichloropropane	7.427	63	87107	53.869 ug/l		100
46) Dibromomethane	7.580	93	69900	57.366 ug/l		95
47) Bromodichloromethane	7.818	83	125370	58.559 ug/l		97
48) Methyl methacrylate	7.696	41	105250	56.995 ug/l	#	88
49) 1,4-Dioxane	7.665	88	45681m	1161.399 ug/l		
51) 4-Methyl-2-Pentanone	8.574	43	689501	296.806 ug/l		95
52) Toluene	8.714	92	217080	57.032 ug/l		99
53) t-1,3-Dichloropropene	8.976	75	128331	59.078 ug/l		99
54) cis-1,3-Dichloropropene	8.360	75	139851	56.813 ug/l	#	91
55) 1,1,2-Trichloroethane	9.153	97	86975	58.565 ug/l		98
56) Ethyl methacrylate	9.116	69	141716	60.268 ug/l	#	89
57) 1,3-Dichloropropane	9.305	76	146448	58.860 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	346010	280.598 ug/l		98
59) 2-Hexanone	9.433	43	513732	313.432 ug/l		94
60) Dibromochloromethane	9.519	129	90863	62.789 ug/l		99
61) 1,2-Dibromoethane	9.610	107	89087	57.509 ug/l		98
64) Tetrachloroethene	9.269	164	69945	51.529 ug/l		97
65) Chlorobenzene	10.079	112	230498	52.143 ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	80691	54.848 ug/l		97
67) Ethyl Benzene	10.189	91	404866	54.424 ug/l		98
68) m/p-Xylenes	10.299	106	300638	108.500 ug/l		96
69) o-Xylene	10.640	106	149788	55.404 ug/l		99
70) Styrene	10.652	104	250564	56.236 ug/l		97
71) Bromoform	10.799	173	56733	49.198 ug/l	#	97
73) Isopropylbenzene	10.963	105	387920	53.117 ug/l		99
74) N-amyl acetate	10.841	43	193137	51.587 ug/l		94
75) 1,1,2,2-Tetrachloroethane	11.213	83	134303	54.391 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	110813m	53.071 ug/l		
77) Bromobenzene	11.195	156	92179	51.501 ug/l		98
78) n-propylbenzene	11.305	91	441866	54.835 ug/l		98
79) 2-Chlorotoluene	11.366	91	277003	54.025 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	322601	53.291 ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	39924	48.469 ug/l		93
82) 4-Chlorotoluene	11.451	91	313937	53.165 ug/l		98
83) tert-Butylbenzene	11.713	119	320262	51.719 ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	327564	53.283 ug/l		98
85) sec-Butylbenzene	11.890	105	389571	52.682 ug/l		99
86) p-Isopropyltoluene	12.006	119	325801	52.472 ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	168646	50.841 ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	167075	49.126 ug/l		98
89) n-Butylbenzene	12.329	91	283194	53.527 ug/l		98
90) Hexachloroethane	12.536	117	55605	46.087 ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	169920	48.926 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	27323	45.200 ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	98885	48.719 ug/l		97
94) Hexachlorobutadiene	13.725	225	39642	47.658 ug/l		98
95) Naphthalene	13.774	128	381936	50.468 ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	104145	49.248 ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 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

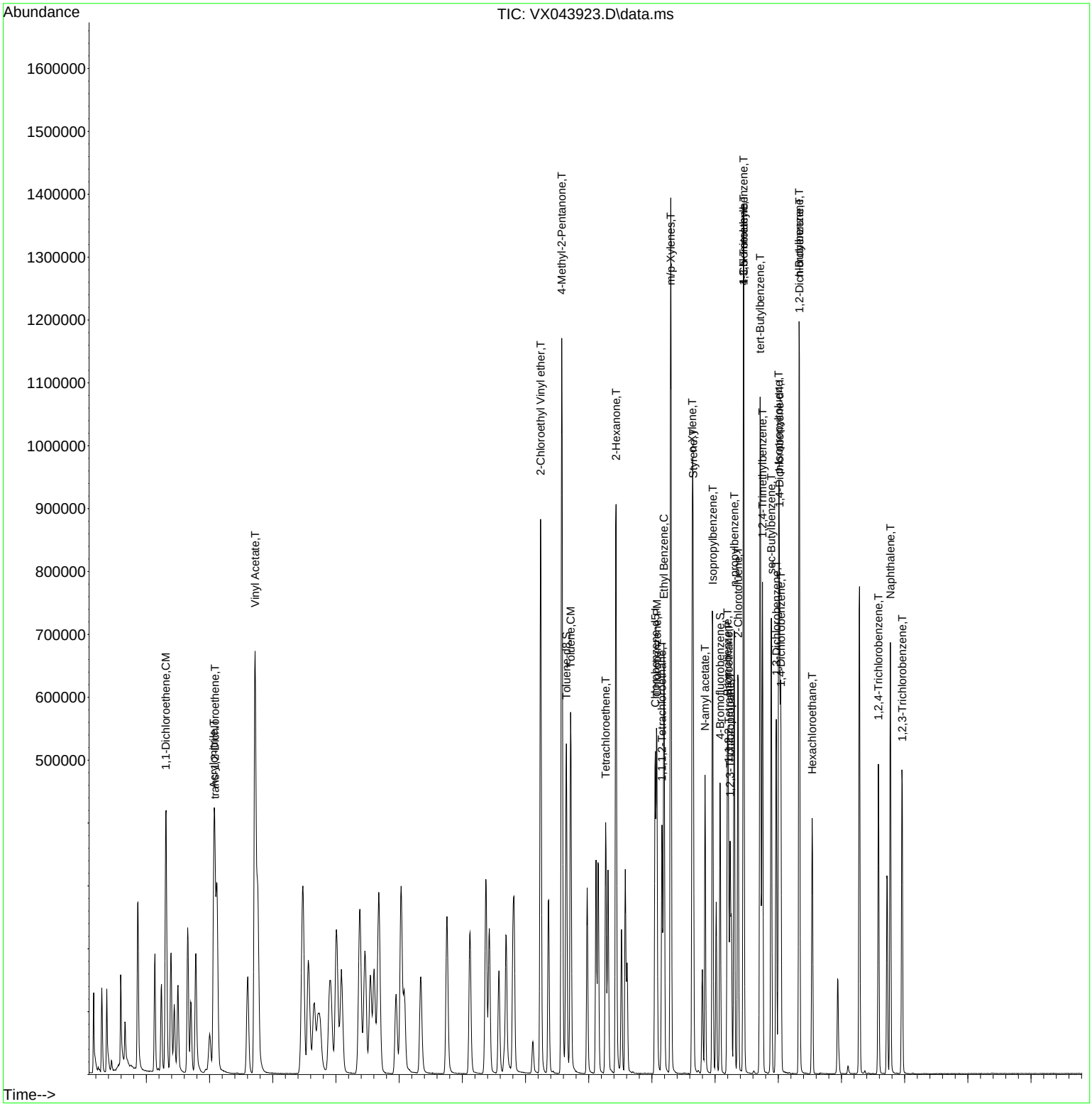
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	78	0.00
2	T	Dichlorodifluoromethane	0.611	0.628	-2.8	89	0.00
3	P	Chloromethane	0.660	0.707	-7.1	84	0.00
4	C	Vinyl Chloride	0.680	0.711	-4.6#	94	0.00
5	T	Bromomethane	0.408	0.401	1.7	102	0.00
6	T	Chloroethane	0.401	0.357	11.0	102	0.00
7	T	Trichlorofluoromethane	1.197	1.255	-4.8	105	0.00
8	T	Diethyl Ether	0.440	0.442	-0.5	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.584	0.568	2.7	83	0.00
10	T	Methyl Iodide	0.749	0.779	-4.0	78	0.00
11	T	Tert butyl alcohol	0.138	0.139	-0.7	93	0.00
12	CM	1,1-Dichloroethene	0.566	0.558	1.4#	80	0.00
13	T	Acrolein	0.145	0.149	-2.8	81	0.00
14	T	Allyl chloride	0.921	0.984	-6.8	83	0.00
15	T	Acrylonitrile	0.328	0.347	-5.8	83	0.00
16	T	Acetone	0.373	0.328	12.1	85	0.00
17	T	Carbon Disulfide	1.163	1.228	-5.6	84	0.00
18	T	Methyl Acetate	0.892	0.922	-3.4	86	0.00
19	T	Methyl tert-butyl Ether	2.047	2.225	-8.7	87	0.00
20	T	Methylene Chloride	0.662	0.663	-0.2	82	0.00
21	T	trans-1,2-Dichloroethene	0.586	0.630	-7.5	84	0.00
22	T	Diisopropyl ether	1.969	2.138	-8.6	87	0.00
23	T	Vinyl Acetate	1.666	1.878	-12.7	91	0.00
24	P	1,1-Dichloroethane	1.137	1.224	-7.7	86	0.00
25	T	2-Butanone	0.489	0.498	-1.8	86	0.00
26	T	2,2-Dichloropropane	1.009	1.018	-0.9	87	0.00
27	T	cis-1,2-Dichloroethene	0.723	0.766	-5.9	83	0.00
28	T	Bromochloromethane	0.512	0.495	3.3	84	0.00
29	T	Tetrahydrofuran	0.303	0.317	-4.6	86	0.00
30	C	Chloroform	1.221	1.289	-5.6#	87	0.00
31	T	Cyclohexane	0.922	0.928	-0.7	83	0.00
32	T	1,1,1-Trichloroethane	1.047	1.121	-7.1	87	0.00
33	S	1,2-Dichloroethane-d4	0.864	0.891	-3.1	89	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	76	0.00
35	S	Dibromofluoromethane	0.360	0.368	-2.2	82	0.00
36	T	1,1-Dichloropropene	0.431	0.449	-4.2	84	0.00
37	T	Ethyl Acetate	0.514	0.556	-8.2	90	0.00
38	T	Carbon Tetrachloride	0.480	0.497	-3.5	87	0.00
39	T	Methylcyclohexane	0.555	0.550	0.9	81	0.00
40	TM	Benzene	1.360	1.395	-2.6	80	0.00
41	T	Methacrylonitrile	0.274	0.294	-7.3	87	0.00
42	TM	1,2-Dichloroethane	0.536	0.563	-5.0	90	0.00
43	T	Isopropyl Acetate	0.840	0.895	-6.5	92	0.00
44	TM	Trichloroethene	0.385	0.348	9.6	82	0.00
45	C	1,2-Dichloropropane	0.331	0.347	-4.8#	82	0.00
46	T	Dibromomethane	0.260	0.279	-7.3	87	0.00
47	T	Bromodichloromethane	0.467	0.500	-7.1	84	0.00
48	T	Methyl methacrylate	0.388	0.420	-8.2	89	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 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	0.006	0.009	-50.0#	120	0.00
50	S	Toluene-d8	1.247	1.247	0.0	80	0.00
51	T	4-Methyl-2-Pentanone	0.515	0.550	-6.8	88	0.00
52	CM	Toluene	0.812	0.866	-6.7#	81	0.00
53	T	t-1,3-Dichloropropene	0.475	0.512	-7.8	83	0.00
54	T	cis-1,3-Dichloropropene	0.521	0.558	-7.1	84	0.00
55	T	1,1,2-Trichloroethane	0.335	0.347	-3.6	82	0.00
56	T	Ethyl methacrylate	0.519	0.565	-8.9	82	0.00
57	T	1,3-Dichloropropane	0.564	0.584	-3.5	81	0.00
58	T	2-Chloroethyl Vinyl ether	0.265	0.276	-4.2	82	0.00
59	T	2-Hexanone	0.384	0.410	-6.8	88	0.00
60	T	Dibromochloromethane	0.333	0.362	-8.7	84	0.00
61	T	1,2-Dibromoethane	0.337	0.355	-5.3	82	0.00
62	S	4-Bromofluorobenzene	0.426	0.448	-5.2	81	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	77	0.00
64	T	Tetrachloroethene	0.325	0.331	-1.8	79	0.00
65	PM	Chlorobenzene	1.085	1.089	-0.4	78	0.00
66	T	1,1,1,2-Tetrachloroethane	0.350	0.381	-8.9	81	0.00
67	C	Ethyl Benzene	1.828	1.913	-4.6#	80	0.00
68	T	m/p-Xylenes	0.682	0.710	-4.1	78	0.00
69	T	o-Xylene	0.665	0.708	-6.5	79	0.00
70	T	Styrene	1.104	1.184	-7.2	78	0.00
71	P	Bromoform	0.234	0.268	-14.5	83	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	77	0.00
73	T	Isopropylbenzene	3.765	3.792	-0.7	81	0.00
74	T	N-amyl acetate	1.717	1.888	-10.0	90	0.00
75	P	1,1,2,2-Tetrachloroethane	1.289	1.313	-1.9	82	0.00
76	T	1,2,3-Trichloropropane	1.069	1.083	-1.3	82	0.00
77	T	Bromobenzene	0.902	0.901	0.1	78	0.00
78	T	n-propylbenzene	4.192	4.319	-3.0	81	0.00
79	T	2-Chlorotoluene	2.665	2.707	-1.6	81	0.00
80	T	1,3,5-Trimethylbenzene	3.096	3.153	-1.8	80	0.00
81	T	trans-1,4-Dichloro-2-butene	0.388	0.390	-0.5	80	0.00
82	T	4-Chlorotoluene	3.000	3.068	-2.3	80	0.00
83	T	tert-Butylbenzene	3.073	3.130	-1.9	78	0.00
84	T	1,2,4-Trimethylbenzene	3.094	3.202	-3.5	79	0.00
85	T	sec-Butylbenzene	3.750	3.808	-1.5	79	0.00
86	T	p-Isopropyltoluene	3.057	3.184	-4.2	78	0.00
87	T	1,3-Dichlorobenzene	1.647	1.648	-0.1	78	0.00
88	T	1,4-Dichlorobenzene	1.648	1.633	0.9	78	0.00
89	T	n-Butylbenzene	2.657	2.768	-4.2	81	0.00
90	T	Hexachloroethane	0.515	0.543	-5.4	85	0.00
91	T	1,2-Dichlorobenzene	1.665	1.661	0.2	78	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.258	0.267	-3.5	83	0.00
93	T	1,2,4-Trichlorobenzene	0.976	0.967	0.9	76	0.00
94	T	Hexachlorobutadiene	0.386	0.387	-0.3	80	0.00
95	T	Naphthalene	3.532	3.733	-5.7	77	0.00

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.991	1.018	-2.7	76	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\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	78	0.00
2	T	Dichlorodifluoromethane	50.000	62.046	-24.1	89	0.00
3	P	Chloromethane	50.000	55.867	-11.7	84	0.00
4	C	Vinyl Chloride	50.000	55.940	-11.9#	94	0.00
5	T	Bromomethane	50.000	69.459	-38.9#	102	0.00
6	T	Chloroethane	50.000	58.791	-17.6	102	0.00
7	T	Trichlorofluoromethane	50.000	69.274	-38.5#	105	0.00
8	T	Diethyl Ether	50.000	64.776	-29.6#	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	53.013	-6.0	83	0.00
10	T	Methyl Iodide	50.000	51.664	-3.3	78	0.00
11	T	Tert butyl alcohol	250.000	283.818	-13.5	93	0.00
12	CM	1,1-Dichloroethene	50.000	53.599	-7.2#	80	0.00
13	T	Acrolein	250.000	272.556	-9.0	81	0.00
14	T	Allyl chloride	50.000	58.343	-16.7	83	0.00
15	T	Acrylonitrile	250.000	276.221	-10.5	83	0.00
16	T	Acetone	250.000	265.748	-6.3	85	0.00
17	T	Carbon Disulfide	50.000	54.052	-8.1	84	0.00
18	T	Methyl Acetate	50.000	54.593	-9.2	86	0.00
19	T	Methyl tert-butyl Ether	50.000	57.868	-15.7	87	0.00
20	T	Methylene Chloride	50.000	51.368	-2.7	82	0.00
21	T	trans-1,2-Dichloroethene	50.000	55.548	-11.1	84	0.00
22	T	Diisopropyl ether	50.000	58.005	-16.0	87	0.00
23	T	Vinyl Acetate	250.000	314.256	-25.7#	91	0.00
24	P	1,1-Dichloroethane	50.000	56.478	-13.0	86	0.00
25	T	2-Butanone	250.000	288.244	-15.3	86	0.00
26	T	2,2-Dichloropropane	50.000	57.127	-14.3	87	0.00
27	T	cis-1,2-Dichloroethene	50.000	54.236	-8.5	83	0.00
28	T	Bromochloromethane	50.000	54.265	-8.5	84	0.00
29	T	Tetrahydrofuran	250.000	284.374	-13.7	86	0.00
30	C	Chloroform	50.000	57.044	-14.1#	87	0.00
31	T	Cyclohexane	50.000	52.818	-5.6	83	0.00
32	T	1,1,1-Trichloroethane	50.000	58.048	-16.1	87	0.00
33	S	1,2-Dichloroethane-d4	50.000	58.016	-16.0	89	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	76	0.00
35	S	Dibromofluoromethane	50.000	54.792	-9.6	82	0.00
36	T	1,1-Dichloropropene	50.000	53.685	-7.4	84	0.00
37	T	Ethyl Acetate	50.000	59.057	-18.1	90	0.00
38	T	Carbon Tetrachloride	50.000	56.086	-12.2	87	0.00
39	T	Methylcyclohexane	50.000	52.543	-5.1	81	0.00
40	TM	Benzene	50.000	53.028	-6.1	80	0.00
41	T	Methacrylonitrile	50.000	59.928	-19.9	87	0.00
42	TM	1,2-Dichloroethane	50.000	58.882	-17.8	90	0.00
43	T	Isopropyl Acetate	50.000	60.266	-20.5	92	0.00
44	TM	Trichloroethene	50.000	48.004	4.0	82	0.00
45	C	1,2-Dichloropropane	50.000	53.869	-7.7#	82	0.00
46	T	Dibromomethane	50.000	57.366	-14.7	87	0.00
47	T	Bromodichloromethane	50.000	58.559	-17.1	84	0.00
48	T	Methyl methacrylate	50.000	56.995	-14.0	89	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 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	1161.399	-16.1	120	0.00
50	S	Toluene-d8	50.000	55.587	-11.2	80	0.00
51	T	4-Methyl-2-Pentanone	250.000	296.806	-18.7	88	0.00
52	CM	Toluene	50.000	57.032	-14.1#	81	0.00
53	T	t-1,3-Dichloropropene	50.000	59.078	-18.2	83	0.00
54	T	cis-1,3-Dichloropropene	50.000	56.813	-13.6	84	0.00
55	T	1,1,2-Trichloroethane	50.000	58.565	-17.1	82	0.00
56	T	Ethyl methacrylate	50.000	60.268	-20.5	82	0.00
57	T	1,3-Dichloropropane	50.000	58.860	-17.7	81	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	280.598	-12.2	82	0.00
59	T	2-Hexanone	250.000	313.432	-25.4#	88	0.00
60	T	Dibromochloromethane	50.000	62.789	-25.6#	84	0.00
61	T	1,2-Dibromoethane	50.000	57.509	-15.0	82	0.00
62	S	4-Bromofluorobenzene	50.000	60.492	-21.0	81	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	77	0.00
64	T	Tetrachloroethene	50.000	51.529	-3.1	79	0.00
65	PM	Chlorobenzene	50.000	52.143	-4.3	78	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	54.848	-9.7	81	0.00
67	C	Ethyl Benzene	50.000	54.424	-8.8#	80	0.00
68	T	m/p-Xylenes	100.000	108.500	-8.5	78	0.00
69	T	o-Xylene	50.000	55.404	-10.8	79	0.00
70	T	Styrene	50.000	56.236	-12.5	78	0.00
71	P	Bromoform	50.000	49.198	1.6	83	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	77	0.00
73	T	Isopropylbenzene	50.000	53.117	-6.2	81	0.00
74	T	N-amyl acetate	50.000	51.587	-3.2	90	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	54.391	-8.8	82	0.00
76	T	1,2,3-Trichloropropane	50.000	53.071	-6.1	82	0.00
77	T	Bromobenzene	50.000	51.501	-3.0	78	0.00
78	T	n-propylbenzene	50.000	54.835	-9.7	81	0.00
79	T	2-Chlorotoluene	50.000	54.025	-8.0	81	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.291	-6.6	80	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	48.469	3.1	80	0.00
82	T	4-Chlorotoluene	50.000	53.165	-6.3	80	0.00
83	T	tert-Butylbenzene	50.000	51.719	-3.4	78	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.283	-6.6	79	0.00
85	T	sec-Butylbenzene	50.000	52.682	-5.4	79	0.00
86	T	p-Isopropyltoluene	50.000	52.472	-4.9	78	0.00
87	T	1,3-Dichlorobenzene	50.000	50.841	-1.7	78	0.00
88	T	1,4-Dichlorobenzene	50.000	49.126	1.7	78	0.00
89	T	n-Butylbenzene	50.000	53.527	-7.1	81	0.00
90	T	Hexachloroethane	50.000	46.087	7.8	85	0.00
91	T	1,2-Dichlorobenzene	50.000	48.926	2.1	78	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	45.200	9.6	83	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.719	2.6	76	0.00
94	T	Hexachlorobutadiene	50.000	47.658	4.7	80	0.00
95	T	Naphthalene	50.000	50.468	-0.9	77	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 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	49.248	1.5	76	0.00

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

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043925.D
Acq On : 21 Nov 2024 09:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 03:27:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:25:42 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	148984	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	260569	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	218244	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	92854	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	1.167	85	1889	1.001	ug/l	88
3) Chloromethane	1.295	50	1723	0.868	ug/l	90
4) Vinyl Chloride	1.374	62	2010	0.951	ug/l #	81
6) Chloroethane	1.666	64	1724	1.339	ug/l #	82
7) Trichlorofluoromethane	1.874	101	3093	0.819	ug/l	92
8) Diethyl Ether	2.136	74	1421	1.032	ug/l	75
9) 1,1,2-Trichlorotrifluo...	2.313	101	1764	0.979	ug/l	94
12) 1,1-Dichloroethene	2.300	96	1775	1.034	ug/l #	62
14) Allyl chloride	2.654	41	2371	0.845	ug/l	87
15) Acrylonitrile	3.063	53	4483	4.485	ug/l	95
16) Acetone	2.386	43	5977	5.093	ug/l #	86
17) Carbon Disulfide	2.502	76	3223	0.910	ug/l	99
18) Methyl Acetate	2.703	43	2775	1.015	ug/l	97
19) Methyl tert-butyl Ether	3.105	73	5162	0.828	ug/l	94
20) Methylene Chloride	2.782	84	2099	1.054	ug/l #	73
21) trans-1,2-Dichloroethene	3.081	96	1624	0.916	ug/l	97
22) Diisopropyl ether	3.751	45	4882	0.814	ug/l #	30
23) Vinyl Acetate	3.727	43	18541	3.613	ug/l	98
24) 1,1-Dichloroethane	3.593	63	2919	0.844	ug/l #	94
25) 2-Butanone	4.581	43	6676	4.408	ug/l	92
26) 2,2-Dichloropropane	4.459	77	2687	0.860	ug/l	86
27) cis-1,2-Dichloroethene	4.495	96	2007	0.916	ug/l	89
28) Bromochloromethane	4.904	49	1494m	0.981	ug/l	
29) Tetrahydrofuran	5.013	42	4264	4.593	ug/l	95
30) Chloroform	5.093	83	3187	0.856	ug/l #	76
32) 1,1,1-Trichloroethane	5.373	97	2600	0.810	ug/l #	46
36) 1,1-Dichloropropene	5.690	75	1993	0.859	ug/l #	80
37) Ethyl Acetate	4.733	43	2692m	0.935	ug/l	
38) Carbon Tetrachloride	5.660	117	2287	0.877	ug/l #	78
39) Methylcyclohexane	7.379	83	2835	0.941	ug/l	90
40) Benzene	6.032	78	6312	0.873	ug/l #	84
41) Methacrylonitrile	4.934	41	1141m	0.774	ug/l	
42) 1,2-Dichloroethane	6.086	62	2602	0.896	ug/l	84
43) Isopropyl Acetate	6.355	43	3881	0.847	ug/l #	90
44) Trichloroethene	7.123	130	2850	1.393	ug/l	82
45) 1,2-Dichloropropane	7.428	63	1503	0.849	ug/l	100

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043925.D
Acq On : 21 Nov 2024 09:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 03:27:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:25:42 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	7.580	93	1246	0.890	ug/l		94
47) Bromodichloromethane	7.824	83	1819	0.724	ug/l	#	93
48) Methyl methacrylate	7.702	41	2017m	0.917	ug/l		
49) 1,4-Dioxane	7.671	88	613	16.166	ug/l	#	50
51) 4-Methyl-2-Pentanone	8.574	43	11392	4.073	ug/l		96
52) Toluene	8.714	92	3313	0.766	ug/l		82
53) t-1,3-Dichloropropene	8.988	75	1776	0.694	ug/l	#	86
54) cis-1,3-Dichloropropene	8.366	75	2132	0.759	ug/l	#	84
55) 1,1,2-Trichloroethane	9.153	97	1496	0.838	ug/l	#	85
56) Ethyl methacrylate	9.122	69	1973	0.709	ug/l	#	82
57) 1,3-Dichloropropane	9.305	76	2502	0.832	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.245	63	4135	2.662	ug/l		93
59) 2-Hexanone	9.439	43	7726	3.675	ug/l		99
60) Dibromochloromethane	9.519	129	1296	0.723	ug/l		93
61) 1,2-Dibromoethane	9.610	107	1342	0.743	ug/l	#	80
64) Tetrachloroethene	9.269	164	1329	0.924	ug/l		88
65) Chlorobenzene	10.073	112	4585	0.957	ug/l	#	86
66) 1,1,1,2-Tetrachloroethane	10.165	131	1136	0.731	ug/l	#	66
67) Ethyl Benzene	10.195	91	6890	0.848	ug/l	#	86
68) m/p-Xylenes	10.305	106	5324	1.758	ug/l		95
69) o-Xylene	10.640	106	2370	0.801	ug/l		95
70) Styrene	10.665	104	3751	0.767	ug/l		97
71) Bromoform	10.799	173	632	1.756	ug/l	#	87
73) Isopropylbenzene	10.964	105	6379	0.894	ug/l		94
74) N-amyl acetate	10.848	43	2319	0.701	ug/l		93
75) 1,1,2,2-Tetrachloroethane	11.214	83	2224	0.910	ug/l		83
76) 1,2,3-Trichloropropane	11.244	75	1603m	0.801	ug/l		
77) Bromobenzene	11.201	156	1475	0.866	ug/l		94
78) n-propylbenzene	11.305	91	6810	0.854	ug/l		95
79) 2-Chlorotoluene	11.366	91	4618	0.916	ug/l		92
80) 1,3,5-Trimethylbenzene	11.451	105	5022	0.855	ug/l		96
82) 4-Chlorotoluene	11.457	91	4940	0.868	ug/l		94
83) tert-Butylbenzene	11.713	119	4794	0.824	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	4748	0.812	ug/l		99
85) sec-Butylbenzene	11.890	105	5787	0.812	ug/l		94
86) p-Isopropyltoluene	12.012	119	4187	0.723	ug/l		87
87) 1,3-Dichlorobenzene	11.969	146	2934	0.946	ug/l		93
88) 1,4-Dichlorobenzene	12.043	146	3212m	1.020	ug/l		
89) n-Butylbenzene	12.335	91	3522	0.690	ug/l		93
90) Hexachloroethane	12.536	117	835	0.848	ug/l		86
91) 1,2-Dichlorobenzene	12.335	146	2796	0.893	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	12.957	75	395	0.807	ug/l		65
93) 1,2,4-Trichlorobenzene	13.597	180	1576	0.854	ug/l		78
94) Hexachlorobutadiene	13.725	225	709	0.972	ug/l		89
95) Naphthalene	13.780	128	4837	0.728	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	1398	0.749	ug/l		81

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

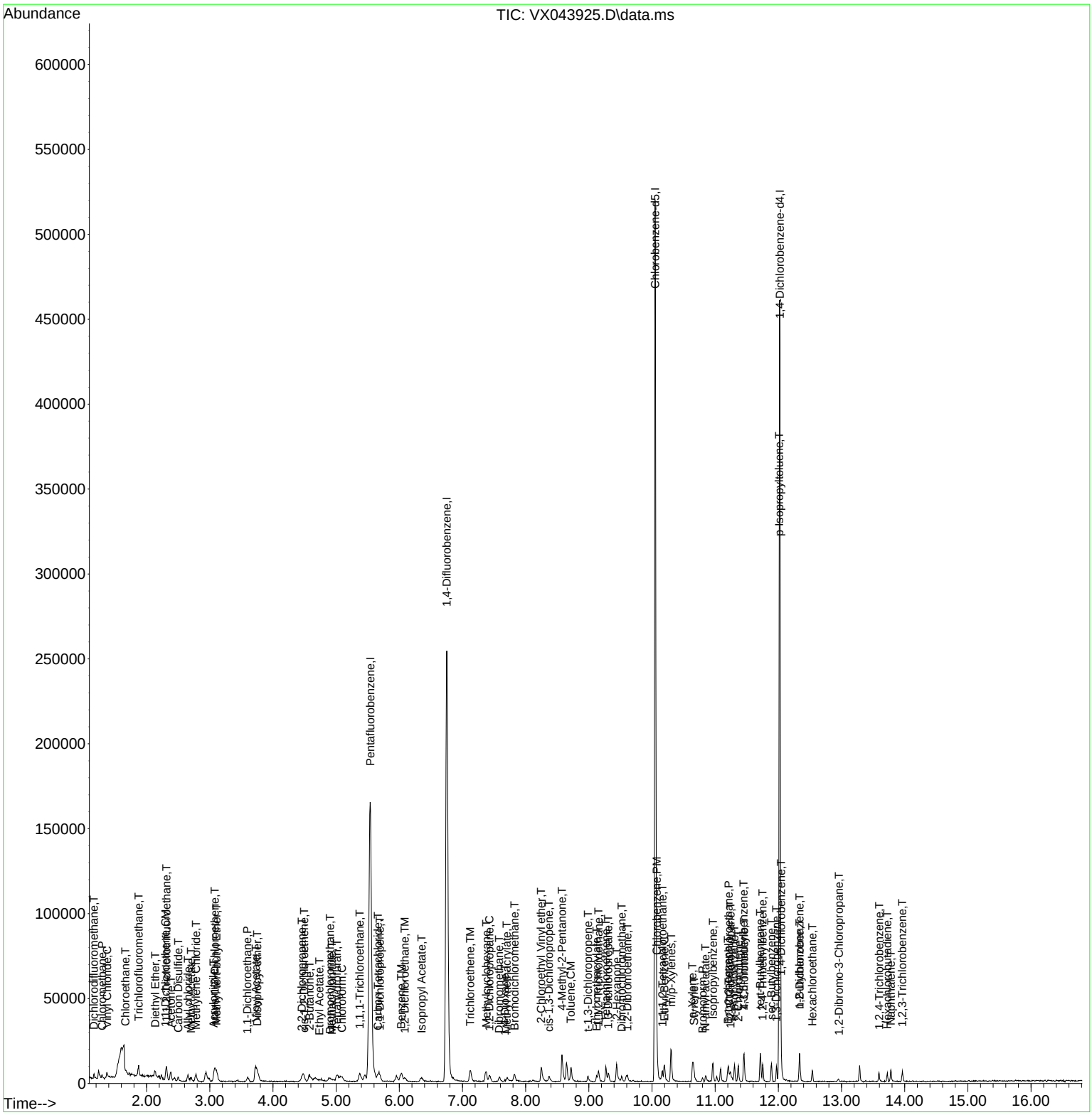
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043925.D
Acq On : 21 Nov 2024 09:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 22 03:27:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:25:42 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043926.D
Acq On : 21 Nov 2024 10:14
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 03:28:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:25:42 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	150793	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	264969	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	223514	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	96662	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	13961	5.398	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.800%#		
35) Dibromofluoromethane	5.379	113	9842	5.198	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.400%#		
50) Toluene-d8	8.646	98	35173	5.389	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.780%#		
62) 4-Bromofluorobenzene	11.079	95	10618	4.780	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.560%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	9545	4.997	ug/l	87
3) Chloromethane	1.294	50	9980	4.965	ug/l	98
4) Vinyl Chloride	1.373	62	10682	4.996	ug/l	100
5) Bromomethane	1.593	94	6415	4.877	ug/l	90
6) Chloroethane	1.666	64	6474	4.969	ug/l	99
7) Trichlorofluoromethane	1.867	101	19099	4.996	ug/l	91
8) Diethyl Ether	2.129	74	6480	4.651	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.318	101	8824	4.839	ug/l	98
10) Methyl Iodide	2.440	142	9897	4.346	ug/l	98
11) Tert butyl alcohol	2.995	59	9278m	22.349	ug/l	
12) 1,1-Dichloroethene	2.306	96	7987	4.597	ug/l	87
13) Acrolein	2.239	56	11940	27.287	ug/l	97
14) Allyl chloride	2.654	41	12874	4.534	ug/l	96
15) Acrylonitrile	3.062	53	24290	24.010	ug/l	99
16) Acetone	2.385	43	29886	25.159	ug/l	95
17) Carbon Disulfide	2.495	76	14415	4.022	ug/l #	94
18) Methyl Acetate	2.702	43	13127	4.745	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	30022	4.759	ug/l #	88
20) Methylene Chloride	2.782	84	9895	4.909	ug/l	95
21) trans-1,2-Dichloroethene	3.080	96	8486	4.730	ug/l #	80
22) Diisopropyl ether	3.757	45	29102	4.794	ug/l #	65
23) Vinyl Acetate	3.721	43	116242	22.382	ug/l	100
24) 1,1-Dichloroethane	3.599	63	16857	4.813	ug/l	98
25) 2-Butanone	4.568	43	36680	23.931	ug/l	96
26) 2,2-Dichloropropane	4.458	77	15040	4.755	ug/l #	76
27) cis-1,2-Dichloroethene	4.477	96	10153	4.579	ug/l	96
28) Bromochloromethane	4.891	49	9210	5.974	ug/l	100
29) Tetrahydrofuran	5.007	42	23518	25.028	ug/l	96
30) Chloroform	5.086	83	18661	4.954	ug/l	97
31) Cyclohexane	5.458	56	13740	4.767	ug/l #	85
32) 1,1,1-Trichloroethane	5.379	97	15162	4.667	ug/l	96
36) 1,1-Dichloropropene	5.690	75	11406	4.834	ug/l	97
37) Ethyl Acetate	4.720	43	14551m	4.968	ug/l	
38) Carbon Tetrachloride	5.665	117	12348	4.658	ug/l	97
39) Methylcyclohexane	7.372	83	14721	4.803	ug/l	95
40) Benzene	6.031	78	36283	4.937	ug/l	94

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043926.D
Acq On : 21 Nov 2024 10:14
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 22 03:28:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:25:42 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	7355	4.907	ug/l	#	95
42) 1,2-Dichloroethane	6.080	62	14467	4.901	ug/l		99
43) Isopropyl Acetate	6.348	43	22267	4.777	ug/l		99
44) Trichloroethene	7.128	130	9852	4.736	ug/l		92
45) 1,2-Dichloropropane	7.427	63	8525	4.736	ug/l		91
46) Dibromomethane	7.586	93	6372	4.475	ug/l		93
47) Bromodichloromethane	7.823	83	11249	4.405	ug/l		96
48) Methyl methacrylate	7.695	41	10190	4.556	ug/l		95
49) 1,4-Dioxane	7.677	88	4090m	106.070	ug/l		
51) 4-Methyl-2-Pentanone	8.573	43	69843	24.556	ug/l		97
52) Toluene	8.714	92	22218	5.051	ug/l		96
53) t-1,3-Dichloropropene	8.982	75	10937	4.200	ug/l		94
54) cis-1,3-Dichloropropene	8.366	75	12253	4.292	ug/l		94
55) 1,1,2-Trichloroethane	9.152	97	9000	4.957	ug/l		94
56) Ethyl methacrylate	9.116	69	12381	4.378	ug/l		96
57) 1,3-Dichloropropane	9.311	76	15211	4.973	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	43351	27.673	ug/l		100
59) 2-Hexanone	9.433	43	52072	24.357	ug/l		100
60) Dibromochloromethane	9.518	129	7738	4.247	ug/l		99
61) 1,2-Dibromoethane	9.610	107	8985	4.894	ug/l		98
64) Tetrachloroethene	9.274	164	7642	5.185	ug/l		93
65) Chlorobenzene	10.079	112	24792	5.050	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.158	131	7421	4.661	ug/l		96
67) Ethyl Benzene	10.195	91	40927	4.920	ug/l		95
68) m/p-Xylenes	10.305	106	29635	9.553	ug/l		99
69) o-Xylene	10.640	106	14856	4.905	ug/l		98
70) Styrene	10.658	104	22907	4.573	ug/l		97
71) Bromoform	10.799	173	4476	5.004	ug/l	#	99
73) Isopropylbenzene	10.957	105	37958	5.109	ug/l		99
74) N-amyl acetate	10.841	43	15928	4.627	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.213	83	13107	5.152	ug/l		100
76) 1,2,3-Trichloropropane	11.237	75	12040m	5.776	ug/l		
77) Bromobenzene	11.195	156	9259	5.224	ug/l		97
78) n-propylbenzene	11.305	91	39774	4.793	ug/l		98
79) 2-Chlorotoluene	11.366	91	26740	5.096	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	30114	4.926	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	2880	3.707	ug/l	#	77
82) 4-Chlorotoluene	11.451	91	29049	4.903	ug/l		96
83) tert-Butylbenzene	11.713	119	29934	4.940	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	30674	5.040	ug/l		97
85) sec-Butylbenzene	11.890	105	37899	5.105	ug/l		96
86) p-Isopropyltoluene	12.006	119	29412	4.878	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	16008	4.959	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	15837	4.831	ug/l		89
89) n-Butylbenzene	12.335	91	24938	4.691	ug/l		99
90) Hexachloroethane	12.536	117	4279	4.173	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	16747	5.140	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2454	4.814	ug/l		85
93) 1,2,4-Trichlorobenzene	13.591	180	8746	4.553	ug/l		98
94) Hexachlorobutadiene	13.725	225	3713	4.891	ug/l		97
95) Naphthalene	13.774	128	32485	4.698	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	9280	4.773	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043926.D
Acq On : 21 Nov 2024 10:14
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 03:28:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:25:42 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

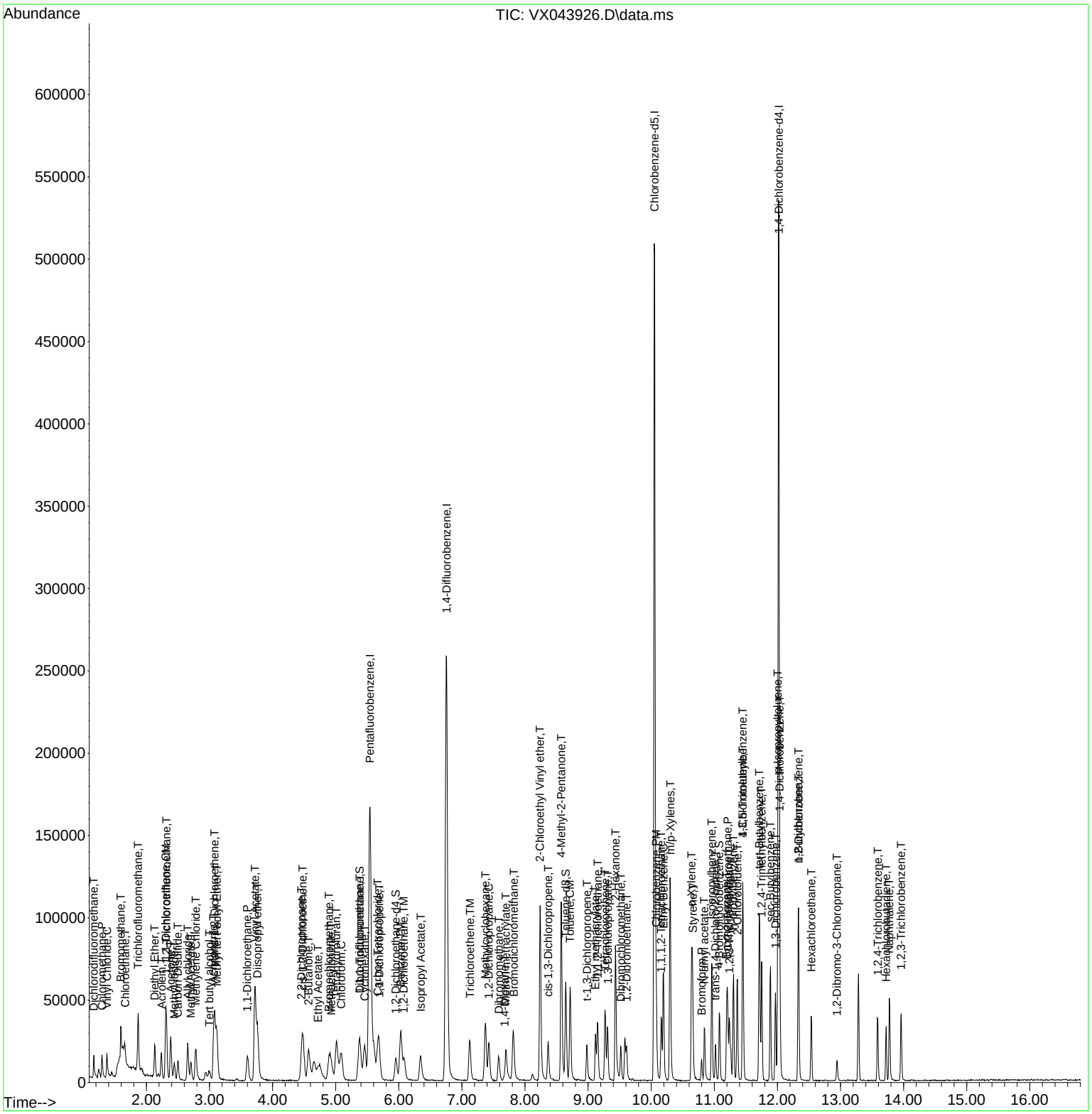
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043926.D
Acq On : 21 Nov 2024 10:14
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 22 03:28:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:25:42 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043927.D
Acq On : 21 Nov 2024 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 11:27:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	137617	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	247844	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	217871	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	98477	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	48239	22.821	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	45.640%#		
35) Dibromofluoromethane	5.385	113	35015	21.040	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	42.080%#		
50) Toluene-d8	8.647	98	122646	22.060	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	44.120%#		
62) 4-Bromofluorobenzene	11.079	95	41087	22.365	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	44.720%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	35268	25.327	ug/l	98
3) Chloromethane	1.295	50	39622	22.767	ug/l	93
4) Vinyl Chloride	1.374	62	40173	22.975	ug/l	95
5) Bromomethane	1.593	94	24112	30.357	ug/l	98
6) Chloroethane	1.666	64	22213	26.595	ug/l	97
7) Trichlorofluoromethane	1.868	101	73464	29.469	ug/l	99
8) Diethyl Ether	2.136	74	25875	27.531	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	33284	22.561	ug/l	96
10) Methyl Iodide	2.441	142	43047	20.733	ug/l	94
11) Tert butyl alcohol	3.002	59	36554	108.748	ug/l	100
12) 1,1-Dichloroethene	2.307	96	32180	22.474	ug/l	96
13) Acrolein	2.240	56	35249	93.505	ug/l	99
14) Allyl chloride	2.660	41	53053	22.853	ug/l #	88
15) Acrylonitrile	3.069	53	94417	109.118	ug/l	99
16) Acetone	2.386	43	110373	130.004	ug/l	89
17) Carbon Disulfide	2.502	76	59349	18.983	ug/l	98
18) Methyl Acetate	2.709	43	50136	21.564	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	121776	23.009	ug/l	100
20) Methylene Chloride	2.788	84	37633	21.177	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	33545	21.489	ug/l	100
22) Diisopropyl ether	3.764	45	119475	23.557	ug/l	91
23) Vinyl Acetate	3.721	43	504408	122.699	ug/l	98
24) 1,1-Dichloroethane	3.599	63	67233	22.540	ug/l	99
25) 2-Butanone	4.568	43	148152	124.741	ug/l	97
26) 2,2-Dichloropropane	4.471	77	58444	23.843	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	41866	21.551	ug/l	94
28) Bromochloromethane	4.891	49	26507	21.119	ug/l	90
29) Tetrahydrofuran	5.013	42	87736	114.321	ug/l	98
30) Chloroform	5.087	83	72049	23.172	ug/l	97
31) Cyclohexane	5.458	56	53731	22.225	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	62394	23.474	ug/l	98
36) 1,1-Dichloropropene	5.684	75	44465	21.438	ug/l	99
37) Ethyl Acetate	4.715	43	54426	23.316	ug/l	97
38) Carbon Tetrachloride	5.672	117	48701	22.179	ug/l	99
39) Methylcyclohexane	7.379	83	55958	21.551	ug/l	99
40) Benzene	6.025	78	144401	22.144	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043927.D
Acq On : 21 Nov 2024 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 11:27:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	28938	23.789 ug/l		95
42) 1,2-Dichloroethane	6.086	62	57981	24.487 ug/l		98
43) Isopropyl Acetate	6.349	43	88577	24.054 ug/l		94
44) Trichloroethene	7.117	130	36440	20.270 ug/l		95
45) 1,2-Dichloropropane	7.428	63	35791	22.394 ug/l		97
46) Dibromomethane	7.580	93	27799	23.082 ug/l		96
47) Bromodichloromethane	7.818	83	49665	23.471 ug/l	#	94
48) Methyl methacrylate	7.690	41	41962	22.991 ug/l	#	87
49) 1,4-Dioxane	7.665	88	12071	310.503 ug/l	#	62
51) 4-Methyl-2-Pentanone	8.574	43	278479	121.285 ug/l		95
52) Toluene	8.714	92	87569	23.277 ug/l		99
53) t-1,3-Dichloropropene	8.976	75	50294	23.425 ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	56407	23.184 ug/l	#	91
55) 1,1,2-Trichloroethane	9.153	97	37148	25.308 ug/l		96
56) Ethyl methacrylate	9.116	69	56585	24.347 ug/l	#	88
57) 1,3-Dichloropropane	9.305	76	61420	24.976 ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	136842	112.277 ug/l		96
59) 2-Hexanone	9.433	43	213629	131.869 ug/l		93
60) Dibromochloromethane	9.519	129	34133	23.864 ug/l		100
61) 1,2-Dibromoethane	9.610	107	36985	24.156 ug/l		99
64) Tetrachloroethene	9.269	164	29274	20.948 ug/l		98
65) Chlorobenzene	10.080	112	96469	21.197 ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	32353	21.360 ug/l		98
67) Ethyl Benzene	10.189	91	166435	21.731 ug/l		98
68) m/p-Xylenes	10.299	106	122658	42.997 ug/l		95
69) o-Xylene	10.640	106	60254	21.648 ug/l		94
70) Styrene	10.653	104	102329	22.308 ug/l		97
71) Bromoform	10.799	173	19329	19.555 ug/l	#	97
73) Isopropylbenzene	10.964	105	157405	22.393 ug/l		99
74) N-amyl acetate	10.842	43	73525	23.459 ug/l		93
75) 1,1,2,2-Tetrachloroethane	11.213	83	54158	22.787 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	45423m	22.601 ug/l		
77) Bromobenzene	11.195	156	37631	21.843 ug/l		97
78) n-propylbenzene	11.305	91	176034	22.696 ug/l		98
79) 2-Chlorotoluene	11.360	91	112986	22.894 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	132041	22.662 ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	14743	20.654 ug/l		88
82) 4-Chlorotoluene	11.451	91	125521	22.085 ug/l		99
83) tert-Butylbenzene	11.713	119	128636	21.582 ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	132595	22.408 ug/l		99
85) sec-Butylbenzene	11.890	105	156312	21.962 ug/l		98
86) p-Isopropyltoluene	12.006	119	130605	21.854 ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	67003	20.986 ug/l		99
88) 1,4-Dichlorobenzene	12.043	146	67195	20.527 ug/l		98
89) n-Butylbenzene	12.329	91	110491	21.698 ug/l		98
90) Hexachloroethane	12.536	117	19547	19.432 ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	67852	20.298 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	9939	20.259 ug/l		93
93) 1,2,4-Trichlorobenzene	13.591	180	38866	19.894 ug/l		100
94) Hexachlorobutadiene	13.725	225	14818	18.508 ug/l		91
95) Naphthalene	13.774	128	145678	19.999 ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	41554	20.415 ug/l		97

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043927.D
Acq On : 21 Nov 2024 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 11:27:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 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

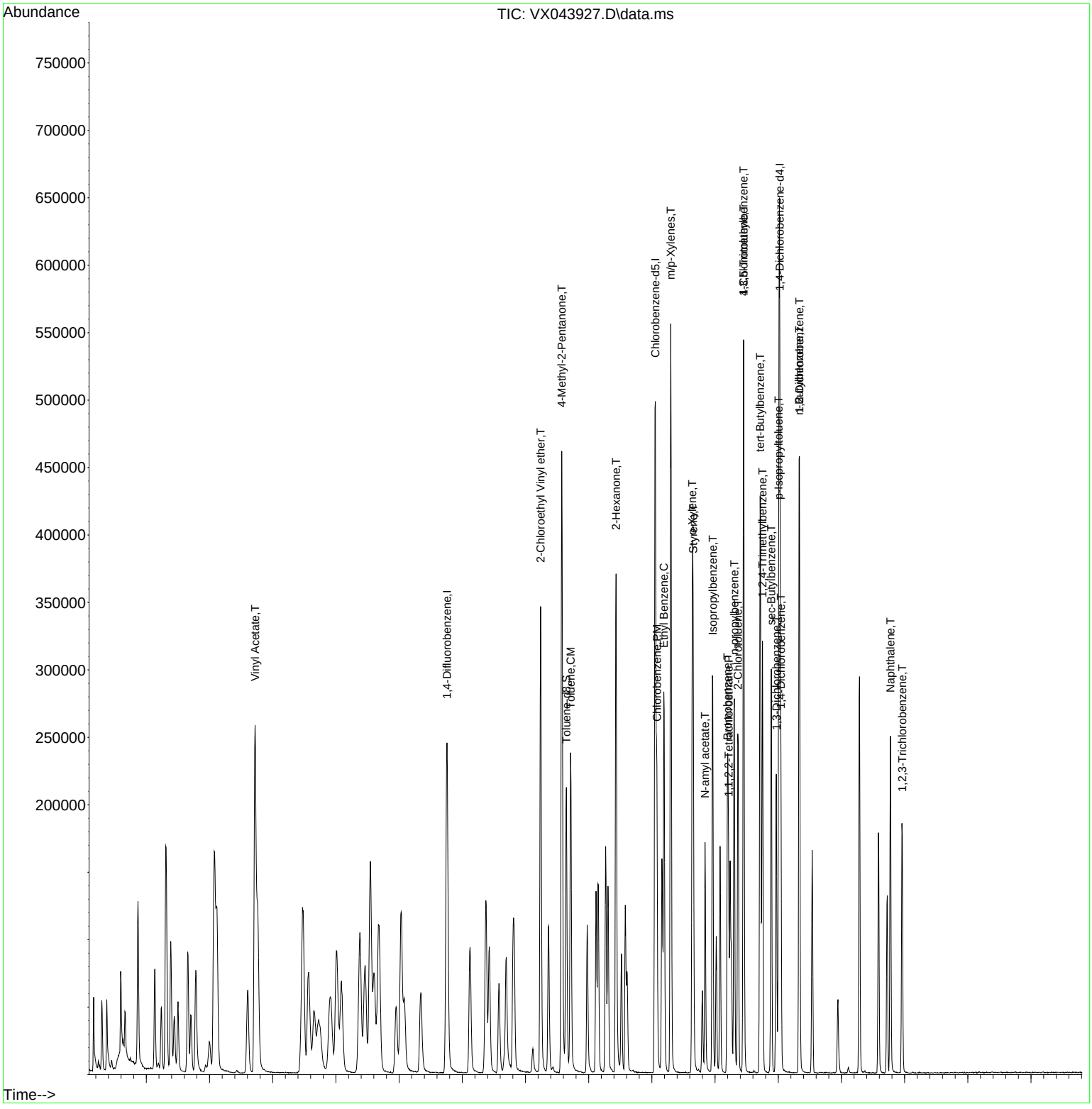
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043927.D
Acq On : 21 Nov 2024 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 11:27:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043928.D
Acq On : 21 Nov 2024 11:17
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 12:14:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	138578	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.757	114	241629	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	212243	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	100316	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	104086	48.899	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.800%			
35) Dibromofluoromethane	5.379	113	78954	48.663	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.320%			
50) Toluene-d8	8.641	98	266650	49.194	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.380%			
62) 4-Bromofluorobenzene	11.079	95	93510	52.209	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	94790	67.600	ug/l	98
3) Chloromethane	1.295	50	96646	55.148	ug/l	100
4) Vinyl Chloride	1.374	62	105586	59.966	ug/l	100
5) Bromomethane	1.593	94	61728	77.177	ug/l	97
6) Chloroethane	1.660	64	63580	75.594	ug/l	98
7) Trichlorofluoromethane	1.868	101	188045	74.909	ug/l	100
8) Diethyl Ether	2.130	74	65665	69.383	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.313	101	91167	61.367	ug/l	97
10) Methyl Iodide	2.441	142	112083	53.608	ug/l	95
11) Tert butyl alcohol	2.995	59	100130	295.821	ug/l	99
12) 1,1-Dichloroethene	2.307	96	83087	57.625	ug/l	92
13) Acrolein	2.233	56	100647	265.136	ug/l	97
14) Allyl chloride	2.654	41	144663	61.883	ug/l	91
15) Acrylonitrile	3.063	53	256493	294.373	ug/l	98
16) Acetone	2.380	43	294611	344.605	ug/l	93
17) Carbon Disulfide	2.502	76	178294	56.633	ug/l	99
18) Methyl Acetate	2.703	43	136735	58.404	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	313754	58.872	ug/l	98
20) Methylene Chloride	2.782	84	92475	51.676	ug/l	94
21) trans-1,2-Dichloroethene	3.081	96	87752	55.825	ug/l	95
22) Diisopropyl ether	3.758	45	299631	58.668	ug/l	94
23) Vinyl Acetate	3.715	43	1344870	324.875	ug/l	97
24) 1,1-Dichloroethane	3.599	63	174008	57.932	ug/l	99
25) 2-Butanone	4.556	43	392575	328.247	ug/l	97
26) 2,2-Dichloropropane	4.465	77	158151	64.072	ug/l	96
27) cis-1,2-Dichloroethene	4.477	96	109742	56.100	ug/l	94
28) Bromochloromethane	4.885	49	62386	49.360	ug/l	88
29) Tetrahydrofuran	5.001	42	234208	303.060	ug/l	97
30) Chloroform	5.080	83	182404	58.257	ug/l	94
31) Cyclohexane	5.458	56	144224	59.242	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	164023	61.280	ug/l	98
36) 1,1-Dichloropropene	5.678	75	119269	58.983	ug/l	99
37) Ethyl Acetate	4.709	43	147393	64.767	ug/l	98
38) Carbon Tetrachloride	5.666	117	134725	62.932	ug/l	97
39) Methylcyclohexane	7.373	83	158586	62.647	ug/l	95
40) Benzene	6.025	78	360978	56.780	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043928.D
Acq On : 21 Nov 2024 11:17
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 21 12:14:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	79507	67.041	ug/l		96
42) 1,2-Dichloroethane	6.074	62	145681	63.109	ug/l		97
43) Isopropyl Acetate	6.336	43	235856	65.697	ug/l		94
44) Trichloroethene	7.117	130	90015	51.360	ug/l		91
45) 1,2-Dichloropropane	7.422	63	89529	57.459	ug/l		98
46) Dibromomethane	7.574	93	70679	60.196	ug/l		96
47) Bromodichloromethane	7.818	83	131365	63.678	ug/l		97
48) Methyl methacrylate	7.690	41	112803	63.393	ug/l	#	88
49) 1,4-Dioxane	7.659	88	33402	881.301	ug/l	#	73
51) 4-Methyl-2-Pentanone	8.574	43	732582	327.265	ug/l		95
52) Toluene	8.714	92	222500	60.664	ug/l		97
53) t-1,3-Dichloropropene	8.976	75	137451	65.667	ug/l		98
54) cis-1,3-Dichloropropene	8.360	75	147638	62.243	ug/l		92
55) 1,1,2-Trichloroethane	9.147	97	89441	62.501	ug/l		97
56) Ethyl methacrylate	9.116	69	148281	65.443	ug/l	#	88
57) 1,3-Dichloropropane	9.305	76	151124	63.034	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	371281	312.467	ug/l		98
59) 2-Hexanone	9.427	43	568460	359.925	ug/l		93
60) Dibromochloromethane	9.519	129	95641	68.588	ug/l		99
61) 1,2-Dibromoethane	9.604	107	92940	62.263	ug/l		99
64) Tetrachloroethene	9.269	164	74157	54.472	ug/l		99
65) Chlorobenzene	10.080	112	243080	54.828	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	83934	56.885	ug/l		98
67) Ethyl Benzene	10.189	91	429559	57.573	ug/l		97
68) m/p-Xylenes	10.299	106	323661	116.466	ug/l		96
69) o-Xylene	10.640	106	160643	59.245	ug/l		99
70) Styrene	10.653	104	268004	59.974	ug/l		98
71) Bromoform	10.799	173	60267	62.587	ug/l	#	98
73) Isopropylbenzene	10.957	105	411000	57.397	ug/l		99
74) N-amyl acetate	10.842	43	200195	62.704	ug/l		94
75) 1,1,2,2-Tetrachloroethane	11.214	83	139756	57.726	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	118450m	57.858	ug/l		
77) Bromobenzene	11.195	156	97761	55.706	ug/l		97
78) n-propylbenzene	11.299	91	474802	60.094	ug/l		100
79) 2-Chlorotoluene	11.360	91	286649	57.018	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	345531	58.215	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	44450	61.129	ug/l		96
82) 4-Chlorotoluene	11.451	91	333946	57.679	ug/l		100
83) tert-Butylbenzene	11.713	119	345112	56.841	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	345112	57.254	ug/l		99
85) sec-Butylbenzene	11.890	105	426284	58.794	ug/l		99
86) p-Isopropyltoluene	12.006	119	353256	58.026	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	176936	54.401	ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	178728	53.598	ug/l		98
89) n-Butylbenzene	12.329	91	319448	61.581	ug/l		99
90) Hexachloroethane	12.536	117	59010	57.586	ug/l		96
91) 1,2-Dichlorobenzene	12.335	146	177334	52.077	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	28467	56.961	ug/l		94
93) 1,2,4-Trichlorobenzene	13.585	180	108749	54.645	ug/l		98
94) Hexachlorobutadiene	13.725	225	41267	50.599	ug/l		95
95) Naphthalene	13.774	128	401752	54.142	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	112162	54.094	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043928.D
Acq On : 21 Nov 2024 11:17
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 12:14:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 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

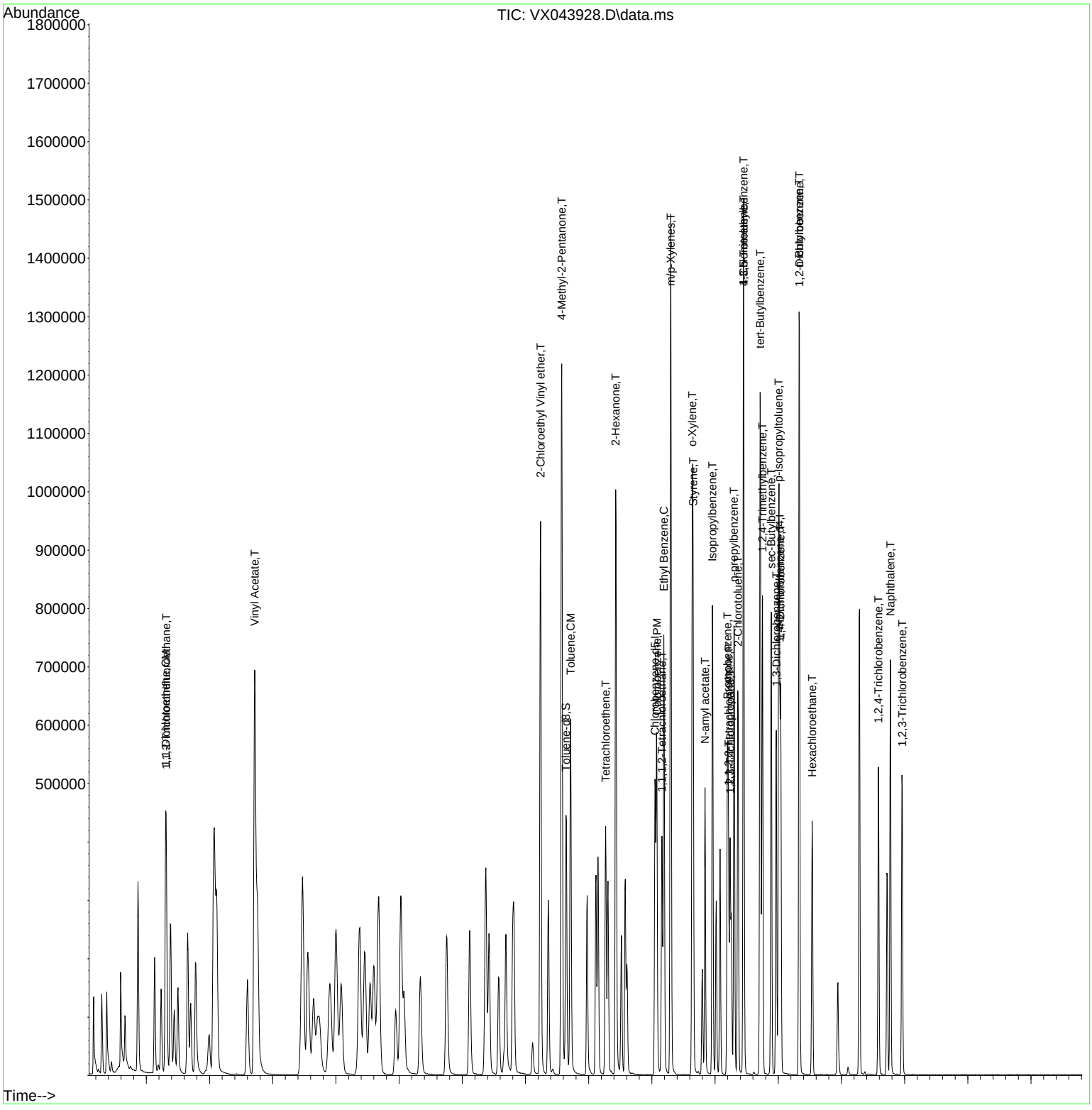
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043928.D
Acq On : 21 Nov 2024 11:17
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 21 12:14:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043929.D
Acq On : 21 Nov 2024 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 12:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	138314	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	246419	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	215595	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	104048	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	236531	111.333	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 222.660%#			
35) Dibromofluoromethane	5.379	113	176869	106.893	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 213.780%#			
50) Toluene-d8	8.647	98	607337	109.870	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 219.740%#			
62) 4-Bromofluorobenzene	11.079	95	215953	118.228	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 236.460%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	166145	118.713	ug/l	97
3) Chloromethane	1.295	50	183899	105.136	ug/l	100
4) Vinyl Chloride	1.374	62	192221	109.377	ug/l	98
5) Bromomethane	1.593	94	118792	148.807	ug/l	99
6) Chloroethane	1.660	64	101816	121.286	ug/l	98
7) Trichlorofluoromethane	1.868	101	354375	141.438	ug/l	100
8) Diethyl Ether	2.136	74	125840	133.219	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	162988	109.922	ug/l	96
10) Methyl Iodide	2.441	142	213858	102.481	ug/l	96
11) Tert butyl alcohol	3.002	59	184757	546.882	ug/l	100
12) 1,1-Dichloroethene	2.307	96	158111	109.868	ug/l	89
13) Acrolein	2.240	56	200929	530.320	ug/l	99
14) Allyl chloride	2.654	41	276068	118.320	ug/l	90
15) Acrylonitrile	3.069	53	458624	527.361	ug/l	97
16) Acetone	2.386	43	511112	598.985	ug/l	92
17) Carbon Disulfide	2.502	76	367958	117.100	ug/l	99
18) Methyl Acetate	2.703	43	247225	105.800	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	597600	112.347	ug/l	99
20) Methylene Chloride	2.782	84	178008	99.663	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	165989	105.798	ug/l	98
22) Diisopropyl ether	3.764	45	572855	112.380	ug/l	97
23) Vinyl Acetate	3.721	43	2570419	622.111	ug/l	97
24) 1,1-Dichloroethane	3.605	63	327756	109.327	ug/l	99
25) 2-Butanone	4.562	43	690992	578.867	ug/l	98
26) 2,2-Dichloropropane	4.471	77	299254	121.468	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	206207	105.613	ug/l	94
28) Bromochloromethane	4.898	49	138227	109.575	ug/l	91
29) Tetrahydrofuran	5.007	42	419337	543.649	ug/l	97
30) Chloroform	5.087	83	350923	112.294	ug/l	97
31) Cyclohexane	5.458	56	256114	105.404	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	309469	115.841	ug/l	98
36) 1,1-Dichloropropene	5.684	75	222573	107.931	ug/l	99
37) Ethyl Acetate	4.715	43	265631	114.453	ug/l	97
38) Carbon Tetrachloride	5.672	117	256290	117.390	ug/l	97
39) Methylcyclohexane	7.373	83	283075	109.652	ug/l	98
40) Benzene	6.032	78	684139	105.520	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043929.D
Acq On : 21 Nov 2024 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 21 12:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	143256	118.447 ug/l	94
42) 1,2-Dichloroethane	6.080	62	271641	115.387 ug/l	98
43) Isopropyl Acetate	6.342	43	440615	120.346 ug/l	94
44) Trichloroethene	7.123	130	169796	94.997 ug/l	98
45) 1,2-Dichloropropane	7.428	63	170741	107.450 ug/l	99
46) Dibromomethane	7.574	93	135928	113.518 ug/l	96
47) Bromodichloromethane	7.818	83	260442	123.792 ug/l	97
48) Methyl methacrylate	7.690	41	210614	116.061 ug/l	88
49) 1,4-Dioxane	7.665	88	62845	1625.913 ug/l #	72
51) 4-Methyl-2-Pentanone	8.574	43	1329064	582.189 ug/l	95
52) Toluene	8.714	92	418999	112.018 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	270418	126.680 ug/l	99
54) cis-1,3-Dichloropropene	8.360	75	285627	118.077 ug/l #	89
55) 1,1,2-Trichloroethane	9.147	97	167357	114.675 ug/l	97
56) Ethyl methacrylate	9.116	69	286893	124.157 ug/l #	90
57) 1,3-Dichloropropane	9.305	76	285511	116.773 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	698756	576.637 ug/l	98
59) 2-Hexanone	9.433	43	1011261	627.842 ug/l	95
60) Dibromochloromethane	9.519	129	187476	131.832 ug/l	99
61) 1,2-Dibromoethane	9.610	107	176345	115.841 ug/l	99
64) Tetrachloroethene	9.269	164	135740	98.157 ug/l	97
65) Chlorobenzene	10.080	112	461076	102.382 ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	164586	109.812 ug/l	97
67) Ethyl Benzene	10.189	91	812289	107.178 ug/l	98
68) m/p-Xylenes	10.299	106	603451	213.769 ug/l	96
69) o-Xylene	10.640	106	298739	108.462 ug/l	98
70) Styrene	10.653	104	511251	112.628 ug/l	98
71) Bromoform	10.799	173	123114	125.866 ug/l #	98
73) Isopropylbenzene	10.957	105	765623	103.086 ug/l	99
74) N-amyl acetate	10.842	43	394438	119.112 ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.213	83	262302	104.456 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	219028m	103.148 ug/l	
77) Bromobenzene	11.195	156	183742	100.944 ug/l	98
78) n-propylbenzene	11.305	91	891893	108.835 ug/l	99
79) 2-Chlorotoluene	11.360	91	537190	103.022 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	648916	105.408 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	88041	116.733 ug/l	97
82) 4-Chlorotoluene	11.451	91	629590	104.841 ug/l	100
83) tert-Butylbenzene	11.713	119	655918	104.157 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	650156	103.992 ug/l	100
85) sec-Butylbenzene	11.890	105	793233	105.481 ug/l	100
86) p-Isopropyltoluene	12.006	119	669819	106.078 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	337665	100.095 ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	343312	99.262 ug/l	99
89) n-Butylbenzene	12.329	91	605284	112.498 ug/l	99
90) Hexachloroethane	12.536	117	120913	113.763 ug/l	93
91) 1,2-Dichlorobenzene	12.335	146	341767	96.765 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	57287	110.517 ug/l	94
93) 1,2,4-Trichlorobenzene	13.585	180	210571	102.015 ug/l	98
94) Hexachlorobutadiene	13.725	225	79822	94.363 ug/l	95
95) Naphthalene	13.774	128	776740	100.923 ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	211814	98.491 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043929.D
Acq On : 21 Nov 2024 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 12:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 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

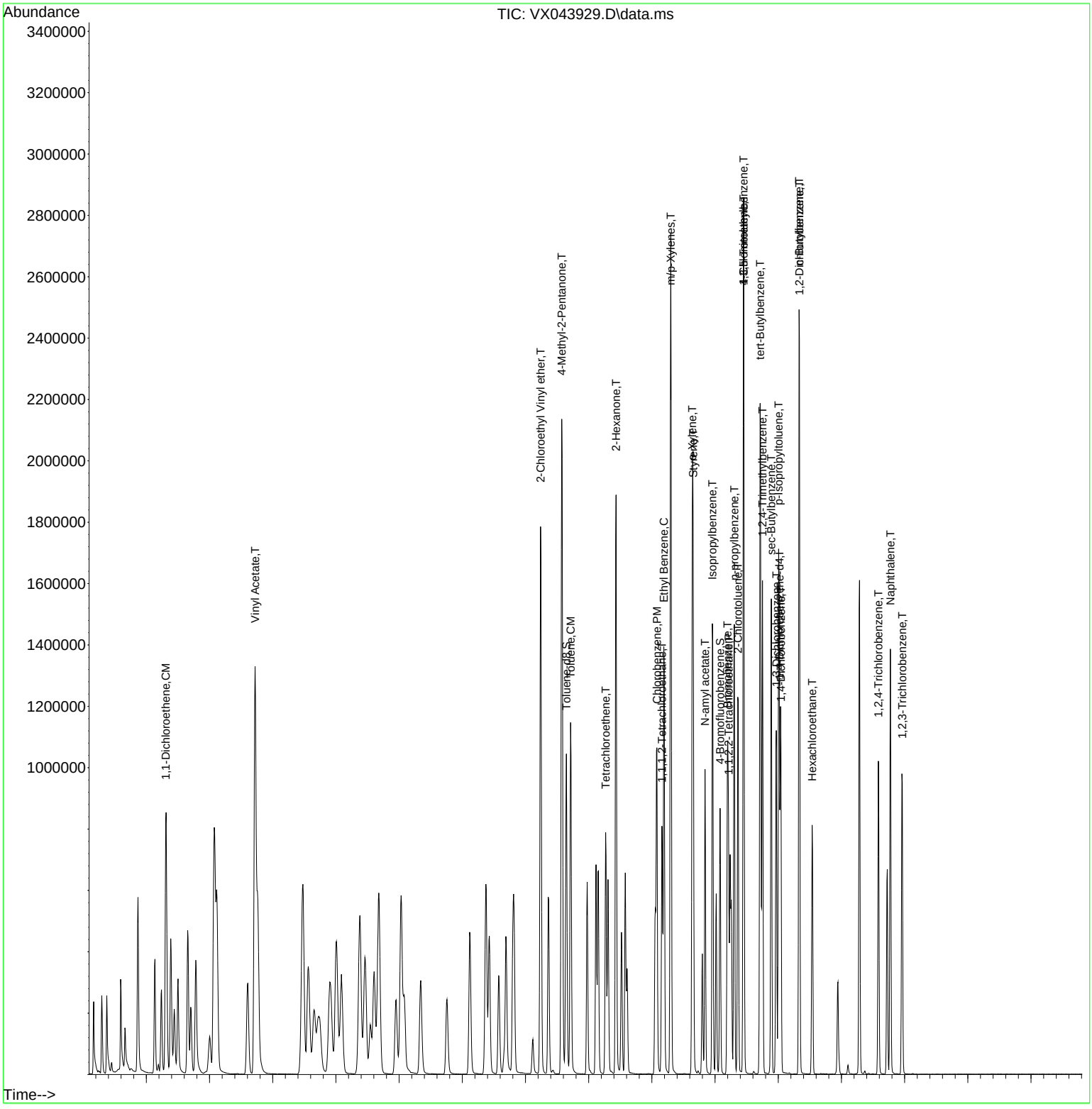
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043929.D
Acq On : 21 Nov 2024 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 21 12:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043930.D
Acq On : 21 Nov 2024 12:03
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 21 12:32:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 12:18:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	132286	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	237642	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	203280	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	96376	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	349080	171.797	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 343.600%#			
35) Dibromofluoromethane	5.385	113	268135	168.036	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 336.080%#			
50) Toluene-d8	8.647	98	896413	168.154	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 336.300%#			
62) 4-Bromofluorobenzene	11.079	95	324612	184.279	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 368.560%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	241389	180.335	ug/l	97
3) Chloromethane	1.294	50	268770	160.659	ug/l	100
4) Vinyl Chloride	1.374	62	271568	161.568	ug/l	99
5) Bromomethane	1.593	94	175581	229.967	ug/l	98
6) Chloroethane	1.660	64	140375	174.839	ug/l	98
7) Trichlorofluoromethane	1.861	101	527057	219.944	ug/l	100
8) Diethyl Ether	2.136	74	185146	204.934	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.312	101	237653	167.580	ug/l	97
10) Methyl Iodide	2.440	142	299792	150.207	ug/l	96
11) Tert butyl alcohol	3.014	59	306168	947.555	ug/l	99
12) 1,1-Dichloroethene	2.306	96	228504	166.017	ug/l	91
13) Acrolein	2.239	56	294638	813.086	ug/l	100
14) Allyl chloride	2.654	41	394228	176.662	ug/l	91
15) Acrylonitrile	3.068	53	684169	822.558	ug/l	98
16) Acetone	2.392	43	734161	899.588	ug/l	92
17) Carbon Disulfide	2.501	76	554853	184.625	ug/l	100
18) Methyl Acetate	2.703	43	361338	161.681	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	869848	170.980	ug/l	98
20) Methylene Chloride	2.782	84	260099	152.260	ug/l	94
21) trans-1,2-Dichloroethene	3.081	96	245485	163.596	ug/l	95
22) Diisopropyl ether	3.763	45	835960	171.467	ug/l	96
23) Vinyl Acetate	3.721	43	3797951	961.094	ug/l	97
24) 1,1-Dichloroethane	3.599	63	479590	167.262	ug/l	99
25) 2-Butanone	4.568	43	1012692	887.025	ug/l	97
26) 2,2-Dichloropropane	4.465	77	440061	186.761	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	304342	162.978	ug/l	94
28) Bromochloromethane	4.891	49	207753	172.194	ug/l	91
29) Tetrahydrofuran	5.007	42	617277	836.734	ug/l	98
30) Chloroform	5.092	83	513285	171.734	ug/l	98
31) Cyclohexane	5.458	56	367157	157.989	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	455922	178.438	ug/l	98
36) 1,1-Dichloropropene	5.684	75	331239	166.559	ug/l	98
37) Ethyl Acetate	4.721	43	393670	175.887	ug/l	97
38) Carbon Tetrachloride	5.672	117	376287	178.719	ug/l	98
39) Methylcyclohexane	7.372	83	410333	164.816	ug/l	96
40) Benzene	6.031	78	999210	159.808	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043930.D
Acq On : 21 Nov 2024 12:03
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 21 12:32:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 12:18:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	206026	176.637 ug/l		95
42) 1,2-Dichloroethane	6.080	62	397508	175.089 ug/l		98
43) Isopropyl Acetate	6.342	43	661839	187.445 ug/l		94
44) Trichloroethene	7.123	130	251071	145.657 ug/l		97
45) 1,2-Dichloropropane	7.427	63	249394	162.744 ug/l		100
46) Dibromomethane	7.580	93	202329	175.212 ug/l		95
47) Bromodichloromethane	7.818	83	388259	191.362 ug/l		97
48) Methyl methacrylate	7.690	41	315872	180.493 ug/l		88
49) 1,4-Dioxane	7.665	88	106634	2860.706 ug/l	#	76
51) 4-Methyl-2-Pentanone	8.580	43	1954925	887.971 ug/l		96
52) Toluene	8.714	92	607179	168.323 ug/l		97
53) t-1,3-Dichloropropene	8.976	75	406346	197.387 ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	428549	183.704 ug/l		93
55) 1,1,2-Trichloroethane	9.153	97	245706	174.579 ug/l		99
56) Ethyl methacrylate	9.116	69	420409	188.658 ug/l	#	88
57) 1,3-Dichloropropane	9.305	76	416811	176.770 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	1023576	875.887 ug/l		98
59) 2-Hexanone	9.433	43	1493755	961.650 ug/l		94
60) Dibromochloromethane	9.518	129	286188	208.679 ug/l		100
61) 1,2-Dibromoethane	9.610	107	261369	178.035 ug/l		100
64) Tetrachloroethene	9.268	164	202262	155.122 ug/l		98
65) Chlorobenzene	10.079	112	675513	159.085 ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	241604	170.964 ug/l		97
67) Ethyl Benzene	10.195	91	1181693	165.365 ug/l		100
68) m/p-Xylenes	10.299	106	884067	332.148 ug/l		97
69) o-Xylene	10.640	106	436919	168.240 ug/l		98
70) Styrene	10.652	104	742061	173.379 ug/l		97
71) Bromoform	10.799	173	186691	161.632 ug/l	#	100
73) Isopropylbenzene	10.963	105	1135309	165.031 ug/l		99
74) N-amyl acetate	10.841	43	586560	159.995 ug/l		94
75) 1,1,2,2-Tetrachloroethane	11.213	83	379947	163.351 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	313344m	159.312 ug/l		
77) Bromobenzene	11.195	156	270671	160.539 ug/l		98
78) n-propylbenzene	11.305	91	1296979	170.866 ug/l		99
79) 2-Chlorotoluene	11.366	91	788163	163.185 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	936129	164.167 ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	136104	161.734 ug/l		99
82) 4-Chlorotoluene	11.451	91	919566	165.319 ug/l		100
83) tert-Butylbenzene	11.713	119	945058	162.017 ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	933275	161.161 ug/l		100
85) sec-Butylbenzene	11.890	105	1148877	164.934 ug/l		100
86) p-Isopropyltoluene	12.006	119	972007	166.189 ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	490336	156.923 ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	494318	154.301 ug/l		99
89) n-Butylbenzene	12.329	91	903805	181.353 ug/l		99
90) Hexachloroethane	12.536	117	180575	151.823 ug/l		96
91) 1,2-Dichlorobenzene	12.335	146	503214	153.818 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	87963	146.019 ug/l		93
93) 1,2,4-Trichlorobenzene	13.585	180	325289	170.137 ug/l		99
94) Hexachlorobutadiene	13.725	225	121126	154.589 ug/l		97
95) Naphthalene	13.774	128	1173154	164.565 ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	326693	164.001 ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043930.D
Acq On : 21 Nov 2024 12:03
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 12:32:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 12:18:48 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

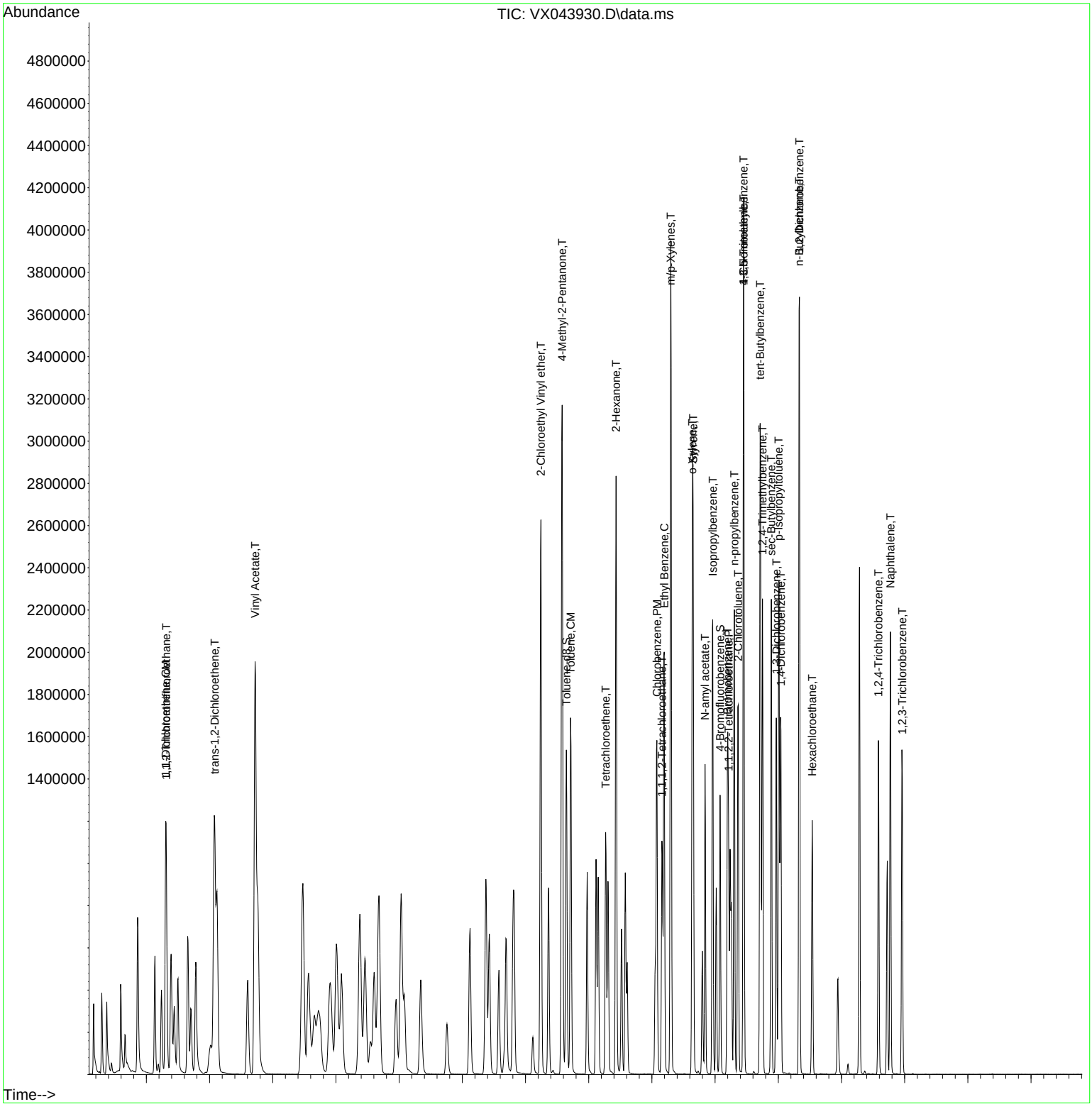
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043930.D
Acq On : 21 Nov 2024 12:03
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 21 12:32:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 12:18:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	131073	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	229009	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	198776	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	96489	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	112818	50.183	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.360%			
35) Dibromofluoromethane	5.379	113	85815	52.442	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.880%			
50) Toluene-d8	8.647	98	289000	51.234	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.460%			
62) 4-Bromofluorobenzene	11.079	95	103640	53.987	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	83916	50.537	ug/l	99
3) Chloromethane	1.295	50	85795	49.100	ug/l	98
4) Vinyl Chloride	1.374	62	93147	50.118	ug/l	97
5) Bromomethane	1.593	94	53783	47.040	ug/l	100
6) Chloroethane	1.660	64	46342	40.921	ug/l	100
7) Trichlorofluoromethane	1.868	101	177461	53.407	ug/l	99
8) Diethyl Ether	2.130	74	57339	47.345	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	80458	50.762	ug/l	98
10) Methyl Iodide	2.441	142	96234	48.614	ug/l	100
11) Tert butyl alcohol	2.995	59	85927	238.127	ug/l	99
12) 1,1-Dichloroethene	2.307	96	72787	48.192	ug/l	99
13) Acrolein	2.233	56	89571	235.500	ug/l	98
14) Allyl chloride	2.654	41	127367	51.610	ug/l	99
15) Acrylonitrile	3.063	53	227832	259.090	ug/l	99
16) Acetone	2.386	43	257802	249.676	ug/l	99
17) Carbon Disulfide	2.496	76	153826	49.375	ug/l	100
18) Methyl Acetate	2.703	43	121774	50.643	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	275221	50.186	ug/l	98
20) Methylene Chloride	2.782	84	82274	46.954	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	76687	49.179	ug/l	97
22) Diisopropyl ether	3.758	45	264554	50.132	ug/l	96
23) Vinyl Acetate	3.715	43	1189244	263.441	ug/l	100
24) 1,1-Dichloroethane	3.599	63	153635	50.466	ug/l	98
25) 2-Butanone	4.556	43	348803	261.804	ug/l	98
26) 2,2-Dichloropropane	4.459	77	143910	52.343	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	95076	49.326	ug/l	99
28) Bromochloromethane	4.891	49	62874	46.920	ug/l	96
29) Tetrahydrofuran	5.001	42	207942	254.585	ug/l	100
30) Chloroform	5.080	83	163357	49.891	ug/l	98
31) Cyclohexane	5.458	56	128482	51.278	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	144908	51.320	ug/l	99
36) 1,1-Dichloropropene	5.678	75	108518	53.218	ug/l	97
37) Ethyl Acetate	4.709	43	133283	52.656	ug/l	97
38) Carbon Tetrachloride	5.660	117	118655	51.786	ug/l	99
39) Methylcyclohexane	7.373	83	141696	53.489	ug/l	93
40) Benzene	6.025	78	319222	50.257	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.916	41	69766	53.851 ug/l	99
42) 1,2-Dichloroethane	6.074	62	128623	50.421 ug/l	100
43) Isopropyl Acetate	6.336	43	207332	51.469 ug/l	99
44) Trichloroethene	7.117	130	80113	44.554 ug/l	90
45) 1,2-Dichloropropane	7.422	63	74380	47.811 ug/l	98
46) Dibromomethane	7.574	93	62345	50.662 ug/l	99
47) Bromodichloromethane	7.818	83	116199	52.648 ug/l	99
48) Methyl methacrylate	7.690	41	101062	52.284 ug/l	99
49) 1,4-Dioxane	7.659	88	31178	905.506 ug/l #	86
51) 4-Methyl-2-Pentanone	8.574	43	652721	265.520 ug/l	100
52) Toluene	8.714	92	195814	51.507 ug/l	98
53) t-1,3-Dichloropropene	8.976	75	119461	53.077 ug/l	96
54) cis-1,3-Dichloropropene	8.360	75	128808	52.205 ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	78575	50.069 ug/l	97
56) Ethyl methacrylate	9.116	69	129841	53.118 ug/l	100
57) 1,3-Dichloropropane	9.305	76	134680	50.945 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	315358	235.230 ug/l	99
59) 2-Hexanone	9.427	43	504444	273.011 ug/l	100
60) Dibromochloromethane	9.519	129	82754	52.557 ug/l	99
61) 1,2-Dibromoethane	9.604	107	83098	52.367 ug/l	100
64) Tetrachloroethene	9.269	164	66054	50.396 ug/l	97
65) Chlorobenzene	10.073	112	209963	48.094 ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	74354	52.515 ug/l	98
67) Ethyl Benzene	10.189	91	377215	50.991 ug/l	97
68) m/p-Xylenes	10.299	106	282971	102.572 ug/l	99
69) o-Xylene	10.640	106	138437	51.396 ug/l	98
70) Styrene	10.653	104	230449	51.728 ug/l	99
71) Bromoform	10.799	173	50837	47.449 ug/l #	98
73) Isopropylbenzene	10.957	105	365084	49.222 ug/l	99
74) N-amyl acetate	10.842	43	176627	51.406 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.214	83	125346	49.356 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	105742m	49.973 ug/l	
77) Bromobenzene	11.195	156	85070	48.081 ug/l	99
78) n-propylbenzene	11.305	91	419586	50.652 ug/l	99
79) 2-Chlorotoluene	11.360	91	249079	47.551 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	305922	50.134 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	38583	49.756 ug/l	98
82) 4-Chlorotoluene	11.451	91	287717	48.652 ug/l	100
83) tert-Butylbenzene	11.713	119	303408	50.165 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	306251	50.410 ug/l	100
85) sec-Butylbenzene	11.890	105	372793	50.307 ug/l	99
86) p-Isopropyltoluene	12.006	119	310060	51.511 ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	153164	47.529 ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	155422	47.306 ug/l	97
89) n-Butylbenzene	12.329	91	276075	52.020 ug/l	99
90) Hexachloroethane	12.536	117	51229	50.050 ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	154980	47.656 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	25968	51.030 ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	94896	49.495 ug/l	99
94) Hexachlorobutadiene	13.725	225	37937	50.065 ug/l	97
95) Naphthalene	13.774	128	357725	51.831 ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	99447	51.246 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
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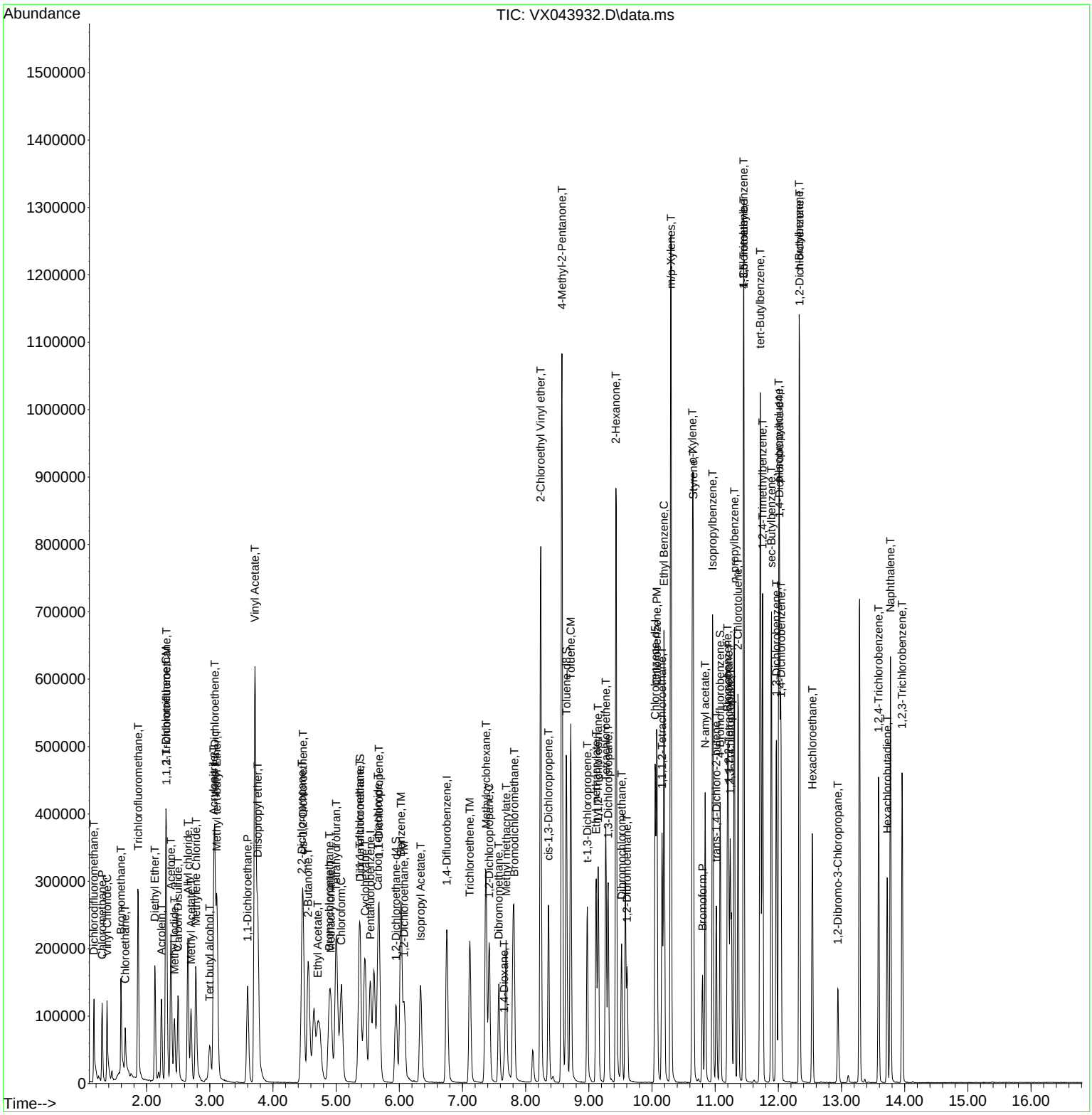
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	95	0.00
2	T	Dichlorodifluoromethane	0.633	0.640	-1.1	89	0.00
3	P	Chloromethane	0.667	0.655	1.8	89	0.00
4	C	Vinyl Chloride	0.709	0.711	-0.3#	88	0.00
5	T	Bromomethane	0.436	0.410	6.0	87	0.00
6	T	Chloroethane	0.432	0.354	18.1	73	0.00
7	T	Trichlorofluoromethane	1.268	1.354	-6.8	94	0.00
8	T	Diethyl Ether	0.462	0.437	5.4	87	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.605	0.614	-1.5	88	0.00
10	T	Methyl Iodide	0.755	0.734	2.8	86	0.00
11	T	Tert butyl alcohol	0.138	0.131	5.1	86	0.00
12	CM	1,1-Dichloroethene	0.576	0.555	3.6#	88	0.00
13	T	Acrolein	0.145	0.137	5.5	89	0.00
14	T	Allyl chloride	0.941	0.972	-3.3	88	0.00
15	T	Acrylonitrile	0.335	0.348	-3.9	89	0.00
16	T	Acetone	0.394	0.393	0.3	88	0.00
17	T	Carbon Disulfide	1.188	1.174	1.2	86	0.00
18	T	Methyl Acetate	0.917	0.929	-1.3	89	0.00
19	T	Methyl tert-butyl Ether	2.092	2.100	-0.4	88	0.00
20	T	Methylene Chloride	0.668	0.628	6.0	89	0.00
21	T	trans-1,2-Dichloroethene	0.595	0.585	1.7	87	0.00
22	T	Diisopropyl ether	2.013	2.018	-0.2	88	0.00
23	T	Vinyl Acetate	1.722	1.815	-5.4	88	0.00
24	P	1,1-Dichloroethane	1.161	1.172	-0.9	88	0.00
25	T	2-Butanone	0.508	0.532	-4.7	89	0.00
26	T	2,2-Dichloropropane	1.049	1.098	-4.7	91	0.00
27	T	cis-1,2-Dichloroethene	0.735	0.725	1.4	87	0.00
28	T	Bromochloromethane	0.511	0.480	6.1	101	0.00
29	T	Tetrahydrofuran	0.312	0.317	-1.6	89	0.00
30	C	Chloroform	1.249	1.246	0.2#	90	0.00
31	T	Cyclohexane	0.956	0.980	-2.5	89	0.00
32	T	1,1,1-Trichloroethane	1.077	1.106	-2.7	88	0.00
33	S	1,2-Dichloroethane-d4	0.858	0.861	-0.3	108	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
35	S	Dibromofluoromethane	0.357	0.375	-5.0	109	0.00
36	T	1,1-Dichloropropene	0.445	0.474	-6.5	91	0.00
37	T	Ethyl Acetate	0.553	0.582	-5.2	90	0.00
38	T	Carbon Tetrachloride	0.500	0.518	-3.6	88	0.00
39	T	Methylcyclohexane	0.578	0.619	-7.1	89	0.00
40	TM	Benzene	1.387	1.394	-0.5	88	0.00
41	T	Methacrylonitrile	0.283	0.305	-7.8	88	0.00
42	TM	1,2-Dichloroethane	0.557	0.562	-0.9	88	0.00
43	T	Isopropyl Acetate	0.880	0.905	-2.8	88	0.00
44	TM	Trichloroethene	0.393	0.350	10.9	89	0.00
45	C	1,2-Dichloropropane	0.340	0.325	4.4#	83	0.00
46	T	Dibromomethane	0.269	0.272	-1.1	88	0.00
47	T	Bromodichloromethane	0.482	0.507	-5.2	88	0.00
48	T	Methyl methacrylate	0.422	0.441	-4.5	90	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	0.007	12.5	79	0.00
50	S	Toluene-d8	1.232	1.262	-2.4	108	0.00
51	T	4-Methyl-2-Pentanone	0.537	0.570	-6.1	89	0.00
52	CM	Toluene	0.830	0.855	-3.0#	88	0.00
53	T	t-1,3-Dichloropropene	0.491	0.522	-6.3	87	0.00
54	T	cis-1,3-Dichloropropene	0.539	0.562	-4.3	87	0.00
55	T	1,1,2-Trichloroethane	0.343	0.343	0.0	88	0.00
56	T	Ethyl methacrylate	0.534	0.567	-6.2	88	0.00
57	T	1,3-Dichloropropane	0.577	0.588	-1.9	89	0.00
58	T	2-Chloroethyl Vinyl ether	0.273	0.275	-0.7	85	0.00
59	T	2-Hexanone	0.403	0.441	-9.4	89	0.00
60	T	Dibromochloromethane	0.344	0.361	-4.9	87	0.00
61	T	1,2-Dibromoethane	0.346	0.363	-4.9	89	0.00
62	S	4-Bromofluorobenzene	0.419	0.453	-8.1	111	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64	T	Tetrachloroethene	0.330	0.332	-0.6	89	0.00
65	PM	Chlorobenzene	1.098	1.056	3.8	86	0.00
66	T	1,1,1,2-Tetrachloroethane	0.356	0.374	-5.1	89	0.00
67	C	Ethyl Benzene	1.861	1.898	-2.0#	88	0.00
68	T	m/p-Xylenes	0.694	0.712	-2.6	87	0.00
69	T	o-Xylene	0.678	0.696	-2.7	86	0.00
70	T	Styrene	1.121	1.159	-3.4	86	0.00
71	P	Bromoform	0.240	0.256	-6.7	84	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
73	T	Isopropylbenzene	3.843	3.784	1.5	89	0.00
74	T	N-amyl acetate	1.780	1.831	-2.9	88	0.00
75	P	1,1,2,2-Tetrachloroethane	1.316	1.299	1.3	90	0.00
76	T	1,2,3-Trichloropropane	1.096	1.096	0.0	89	0.00
77	T	Bromobenzene	0.917	0.882	3.8	87	0.00
78	T	n-propylbenzene	4.293	4.349	-1.3	88	0.00
79	T	2-Chlorotoluene	2.714	2.581	4.9	87	0.00
80	T	1,3,5-Trimethylbenzene	3.162	3.171	-0.3	89	0.00
81	T	trans-1,4-Dichloro-2-butene	0.402	0.400	0.5	87	0.00
82	T	4-Chlorotoluene	3.064	2.982	2.7	86	0.00
83	T	tert-Butylbenzene	3.134	3.144	-0.3	88	0.00
84	T	1,2,4-Trimethylbenzene	3.148	3.174	-0.8	89	0.00
85	T	sec-Butylbenzene	3.840	3.864	-0.6	87	0.00
86	T	p-Isopropyltoluene	3.119	3.213	-3.0	88	0.00
87	T	1,3-Dichlorobenzene	1.670	1.587	5.0	87	0.00
88	T	1,4-Dichlorobenzene	1.702	1.611	5.3	87	0.00
89	T	n-Butylbenzene	2.750	2.861	-4.0	86	0.00
90	T	Hexachloroethane	0.530	0.531	-0.2	87	0.00
91	T	1,2-Dichlorobenzene	1.685	1.606	4.7	87	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.264	0.269	-1.9	91	0.00
93	T	1,2,4-Trichlorobenzene	0.994	0.983	1.1	87	0.00
94	T	Hexachlorobutadiene	0.393	0.393	0.0	92	0.00
95	T	Naphthalene	3.576	3.707	-3.7	89	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	1.006	1.031	-2.5	89	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\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	95	0.00
2	T	Dichlorodifluoromethane	50.000	50.537	-1.1	89	0.00
3	P	Chloromethane	50.000	49.100	1.8	89	0.00
4	C	Vinyl Chloride	50.000	50.118	-0.2#	88	0.00
5	T	Bromomethane	50.000	47.040	5.9	87	0.00
6	T	Chloroethane	50.000	40.921	18.2	73	0.00
7	T	Trichlorofluoromethane	50.000	53.407	-6.8	94	0.00
8	T	Diethyl Ether	50.000	47.345	5.3	87	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.762	-1.5	88	0.00
10	T	Methyl Iodide	50.000	48.614	2.8	86	0.00
11	T	Tert butyl alcohol	250.000	238.127	4.7	86	0.00
12	CM	1,1-Dichloroethene	50.000	48.192	3.6#	88	0.00
13	T	Acrolein	250.000	235.500	5.8	89	0.00
14	T	Allyl chloride	50.000	51.610	-3.2	88	0.00
15	T	Acrylonitrile	250.000	259.090	-3.6	89	0.00
16	T	Acetone	250.000	249.676	0.1	88	0.00
17	T	Carbon Disulfide	50.000	49.375	1.3	86	0.00
18	T	Methyl Acetate	50.000	50.643	-1.3	89	0.00
19	T	Methyl tert-butyl Ether	50.000	50.186	-0.4	88	0.00
20	T	Methylene Chloride	50.000	46.954	6.1	89	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.179	1.6	87	0.00
22	T	Diisopropyl ether	50.000	50.132	-0.3	88	0.00
23	T	Vinyl Acetate	250.000	263.441	-5.4	88	0.00
24	P	1,1-Dichloroethane	50.000	50.466	-0.9	88	0.00
25	T	2-Butanone	250.000	261.804	-4.7	89	0.00
26	T	2,2-Dichloropropane	50.000	52.343	-4.7	91	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.326	1.3	87	0.00
28	T	Bromochloromethane	50.000	46.920	6.2	101	0.00
29	T	Tetrahydrofuran	250.000	254.585	-1.8	89	0.00
30	C	Chloroform	50.000	49.891	0.2#	90	0.00
31	T	Cyclohexane	50.000	51.278	-2.6	89	0.00
32	T	1,1,1-Trichloroethane	50.000	51.320	-2.6	88	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.183	-0.4	108	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	95	0.00
35	S	Dibromofluoromethane	50.000	52.442	-4.9	109	0.00
36	T	1,1-Dichloropropene	50.000	53.218	-6.4	91	0.00
37	T	Ethyl Acetate	50.000	52.656	-5.3	90	0.00
38	T	Carbon Tetrachloride	50.000	51.786	-3.6	88	0.00
39	T	Methylcyclohexane	50.000	53.489	-7.0	89	0.00
40	TM	Benzene	50.000	50.257	-0.5	88	0.00
41	T	Methacrylonitrile	50.000	53.851	-7.7	88	0.00
42	TM	1,2-Dichloroethane	50.000	50.421	-0.8	88	0.00
43	T	Isopropyl Acetate	50.000	51.469	-2.9	88	0.00
44	TM	Trichloroethene	50.000	44.554	10.9	89	0.00
45	C	1,2-Dichloropropane	50.000	47.811	4.4#	83	0.00
46	T	Dibromomethane	50.000	50.662	-1.3	88	0.00
47	T	Bromodichloromethane	50.000	52.648	-5.3	88	0.00
48	T	Methyl methacrylate	50.000	52.284	-4.6	90	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	905.506	9.4	79	0.00
50	S	Toluene-d8	50.000	51.234	-2.5	108	0.00
51	T	4-Methyl-2-Pentanone	250.000	265.520	-6.2	89	0.00
52	CM	Toluene	50.000	51.507	-3.0#	88	0.00
53	T	t-1,3-Dichloropropene	50.000	53.077	-6.2	87	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.205	-4.4	87	0.00
55	T	1,1,2-Trichloroethane	50.000	50.069	-0.1	88	0.00
56	T	Ethyl methacrylate	50.000	53.118	-6.2	88	0.00
57	T	1,3-Dichloropropane	50.000	50.945	-1.9	89	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	235.230	5.9	85	0.00
59	T	2-Hexanone	250.000	273.011	-9.2	89	0.00
60	T	Dibromochloromethane	50.000	52.557	-5.1	87	0.00
61	T	1,2-Dibromoethane	50.000	52.367	-4.7	89	0.00
62	S	4-Bromofluorobenzene	50.000	53.987	-8.0	111	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64	T	Tetrachloroethene	50.000	50.396	-0.8	89	0.00
65	PM	Chlorobenzene	50.000	48.094	3.8	86	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.515	-5.0	89	0.00
67	C	Ethyl Benzene	50.000	50.991	-2.0#	88	0.00
68	T	m/p-Xylenes	100.000	102.572	-2.6	87	0.00
69	T	o-Xylene	50.000	51.396	-2.8	86	0.00
70	T	Styrene	50.000	51.728	-3.5	86	0.00
71	P	Bromoform	50.000	47.449	5.1	84	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	96	0.00
73	T	Isopropylbenzene	50.000	49.222	1.6	89	0.00
74	T	N-amyl acetate	50.000	51.406	-2.8	88	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.356	1.3	90	0.00
76	T	1,2,3-Trichloropropane	50.000	49.973	0.1	89	0.00
77	T	Bromobenzene	50.000	48.081	3.8	87	0.00
78	T	n-propylbenzene	50.000	50.652	-1.3	88	0.00
79	T	2-Chlorotoluene	50.000	47.551	4.9	87	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.134	-0.3	89	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.756	0.5	87	0.00
82	T	4-Chlorotoluene	50.000	48.652	2.7	86	0.00
83	T	tert-Butylbenzene	50.000	50.165	-0.3	88	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.410	-0.8	89	0.00
85	T	sec-Butylbenzene	50.000	50.307	-0.6	87	0.00
86	T	p-Isopropyltoluene	50.000	51.511	-3.0	88	0.00
87	T	1,3-Dichlorobenzene	50.000	47.529	4.9	87	0.00
88	T	1,4-Dichlorobenzene	50.000	47.306	5.4	87	0.00
89	T	n-Butylbenzene	50.000	52.020	-4.0	86	0.00
90	T	Hexachloroethane	50.000	50.050	-0.1	87	0.00
91	T	1,2-Dichlorobenzene	50.000	47.656	4.7	87	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.030	-2.1	91	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.495	1.0	87	0.00
94	T	Hexachlorobutadiene	50.000	50.065	-0.1	92	0.00
95	T	Naphthalene	50.000	51.831	-3.7	89	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.246	-2.5	89	0.00

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

Raw Data

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG No.: P4960

Instrument ID: MSVOA_Y Calibration Date(s): 11/19/2024 11/19/2024

Heated Purge: (Y/N) Y Calibration Time(s): 15:49 17:42

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

LAB FILE ID: RRF005 = VY020338.D RRF010 = VY020339.D RRF020 = VY020340.D
RRF050 = VY020341.D RRF100 = VY020342.D RRF150 = VY020343.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Methyl tert-butyl Ether	1.574	1.297	1.482	1.399	1.404	1.346	1.417	7
Benzene	1.632	1.376	1.440	1.348	1.378	1.435	1.435	7.2
Toluene	0.970	0.836	0.890	0.850	0.829	0.889	0.877	6
Ethyl Benzene	2.319	1.973	2.002	2.051	1.932	2.063	2.057	6.7
m/p-Xylenes	0.829	0.725	0.742	0.708	0.696	0.745	0.741	6.4
o-Xylene	0.770	0.694	0.711	0.668	0.666	0.706	0.703	5.4
Isopropylbenzene	4.851	4.028	4.070	4.314	3.899	4.251	4.236	8
n-propylbenzene	5.602	4.857	4.973	5.199	4.723	5.146	5.083	6.1
1,3,5-Trimethylbenzene	3.622	3.162	3.792	3.392	3.156	3.414	3.423	7.3
tert-Butylbenzene	3.233	2.921	3.004	3.092	2.801	3.073	3.021	4.9
1,2,4-Trimethylbenzene	3.600	3.376	3.453	3.404	3.134	3.395	3.394	4.4
sec-Butylbenzene	5.836	4.237	4.948	5.073	4.046	4.434	4.762	13.9
p-Isopropyltoluene	4.038	3.365	3.793	3.854	3.357	3.687	3.682	7.4
n-Butylbenzene	3.853	3.314	3.479	3.661	3.259	3.589	3.526	6.3
Naphthalene	1.445	1.394	1.453	1.636	1.720	1.691	1.557	9.1
1,2-Dichloroethane-d4	0.609	0.523	0.545	0.636	0.563	0.571	0.574	7.3
Dibromofluoromethane	0.346	0.347	0.307	0.323	0.288	0.312	0.321	7.2
Toluene-d8	1.397	1.186	1.208	1.398	1.130	1.259	1.263	8.9
4-Bromofluorobenzene	0.459	0.381	0.384	0.430	0.369	0.413	0.406	8.5

* 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 GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y111924S.M
Title : SW846 8260
Last Update : Wed Nov 20 04:38:24 2024
Response Via : Initial Calibration

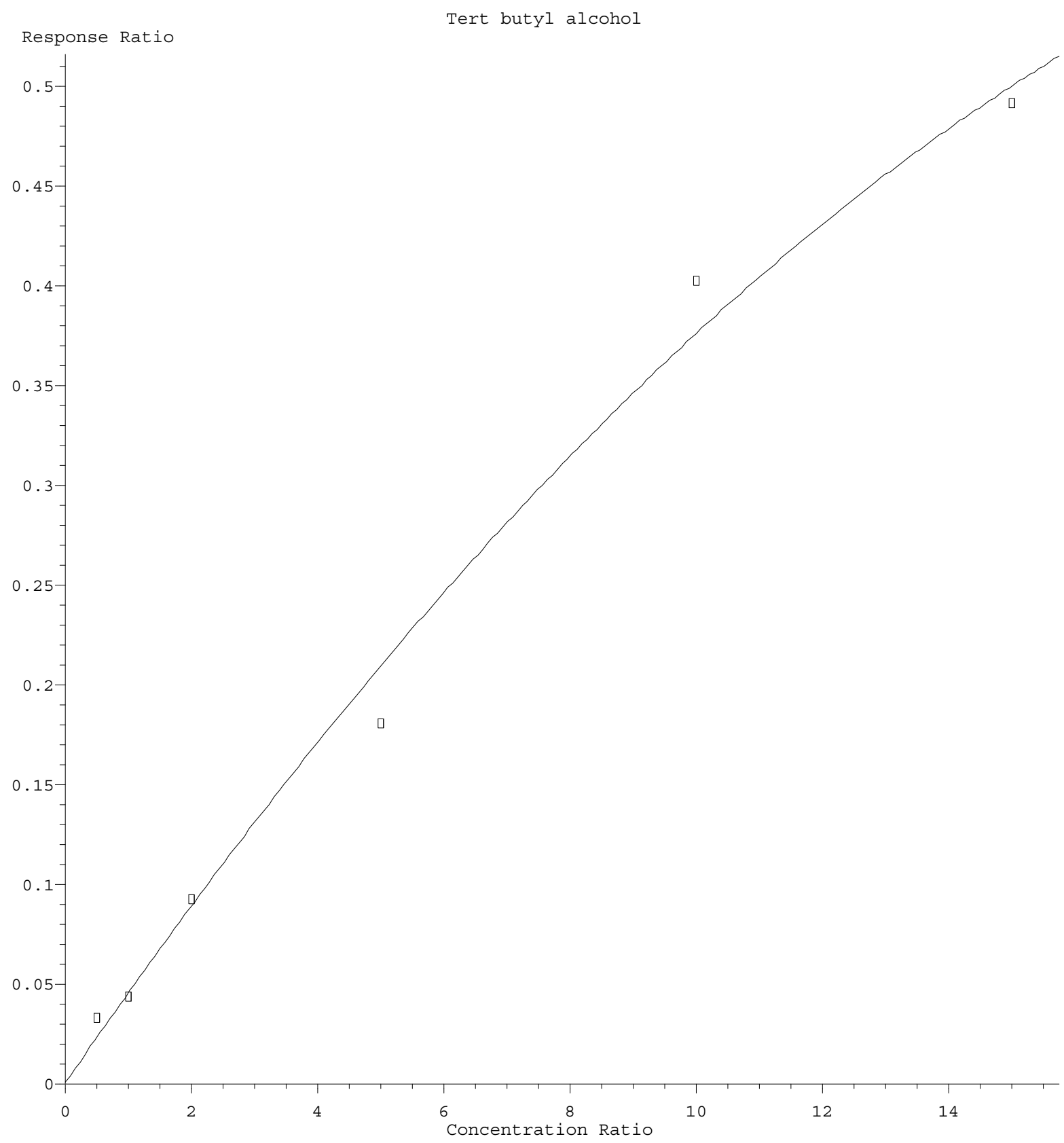
Calibration Files
5 =VY020338.D 10 =VY020339.D 20 =VY020340.D 50 =VY020341.D 100 =VY020342.D 150 =VY020343.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.573	0.448	0.467	0.454	0.465	0.506	0.485	9.77
3)	P	Chloromethane	0.989	0.788	0.765	0.681	0.589	0.599	0.735	20.27
4)	C	Vinyl Chloride	0.816	0.722	0.664	0.622	0.572	0.599	0.666	13.59#
5)	T	Bromomethane	0.415	0.391	0.293	0.314	0.280	0.302	0.333	16.91
6)	T	Chloroethane	0.531	0.376	0.362	0.370	0.334	0.357	0.388	18.34
7)	T	Trichlorofluor...	1.130	0.863	0.896	0.931	0.821	0.910	0.925	11.61
8)	T	Diethyl Ether	0.319	0.262	0.294	0.306	0.286	0.285	0.292	6.73
9)	T	1,1,2-Trichlor...	0.666	0.508	0.536	0.592	0.479	0.525	0.551	12.27
10)	T	Methyl Iodide	0.846	0.657	0.727	0.826	0.670	0.703	0.738	10.80
11)	T	Tert butyl alc...	0.066	0.044	0.046	0.036	0.040	0.033	0.044	26.83
12)	CM	1,1-Dichloroet...	0.647	0.492	0.536	0.586	0.488	0.524	0.545	11.22#
13)	T	Acrolein	0.038	0.031	0.035	0.036	0.036	0.037	0.036	6.69
14)	T	Allyl chloride	1.289	0.978	1.079	0.946	0.999	1.039	1.055	11.72
15)	T	Acrylonitrile	0.143	0.116	0.139	0.124	0.133	0.119	0.129	8.54
16)	T	Acetone	0.160	0.110	0.132	0.160	0.141	0.123	0.138	14.66
17)	T	Carbon Disulfide	2.169	1.635	1.750	2.073	1.647	1.753	1.838	12.35
18)	T	Methyl Acetate	0.388	0.283	0.339	0.302	0.327	0.288	0.321	12.22
19)	T	Methyl tert-bu...	1.574	1.297	1.482	1.399	1.404	1.346	1.417	6.97
20)	T	Methylene Chlo...	0.693	0.546	0.595	0.571	0.543	0.552	0.583	9.77
21)	T	trans-1,2-Dich...	0.721	0.563	0.627	0.601	0.552	0.571	0.606	10.41
22)	T	Diisopropyl ether	2.561	2.032	1.887	2.014	2.022	1.955	2.079	11.67
23)	T	Vinyl Acetate	1.344	1.107	1.066	1.147	1.203	1.101	1.162	8.67
24)	P	1,1-Dichloroet...	1.461	1.141	1.083	1.137	1.101	1.117	1.173	12.15
25)	T	2-Butanone	0.179	0.176	0.168	0.180	0.197	0.165	0.177	6.49
26)	T	2,2-Dichloropr...	1.105	0.981	0.898	0.958	0.919	0.958	0.970	7.51
27)	T	cis-1,2-Dichlo...	0.710	0.664	0.643	0.687	0.647	0.653	0.667	3.92
28)	T	Bromochloromet...	0.534	0.553	0.441	0.509	0.450	0.476	0.494	9.25
29)	T	Tetrahydrofuran	0.099	0.110	0.100	0.107	0.120	0.100	0.106	7.54
30)	C	Chloroform	1.198	1.161	1.069	1.236	1.064	1.072	1.133	6.64#
31)	T	Cyclohexane	1.318	1.107	1.004	1.035	0.969	0.991	1.071	12.17
32)	T	1,1,1-Trichlor...	1.068	1.042	0.941	0.997	0.940	0.982	0.995	5.27
33)	S	1,2-Dichloroet...	0.609	0.523	0.545	0.636	0.563	0.571	0.574	7.26
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.346	0.347	0.307	0.323	0.288	0.312	0.321	7.16
36)	T	1,1-Dichloropr...	0.583	0.478	0.485	0.454	0.453	0.486	0.490	9.77
37)	T	Ethyl Acetate	0.209	0.244	0.224	0.212	0.244	0.213	0.224	7.19
38)	T	Carbon Tetrach...	0.575	0.500	0.500	0.478	0.483	0.533	0.511	7.16
39)	T	Methylcyclohexane	0.695	0.587	0.612	0.583	0.570	0.630	0.613	7.47
40)	TM	Benzene	1.632	1.376	1.440	1.348	1.378	1.435	1.435	7.18
41)	T	Methacrylonitrile	0.137	0.131	0.119	0.118	0.136	0.126	0.128	6.61
42)	TM	1,2-Dichloroet...	0.416	0.372	0.398	0.364	0.386	0.389	0.387	4.78
43)	T	Isopropyl Acetate	0.428	0.389	0.442	0.423	0.492	0.442	0.436	7.70
44)	TM	Trichloroethene	0.388	0.331	0.343	0.320	0.318	0.339	0.340	7.54
45)	C	1,2-Dichloropr...	0.374	0.331	0.348	0.319	0.334	0.347	0.342	5.52#
46)	T	Dibromomethane	0.185	0.173	0.177	0.172	0.175	0.171	0.175	3.01
47)	T	Bromodichlorom...	0.525	0.458	0.479	0.492	0.463	0.490	0.484	4.96
48)	T	Methyl methacr...	0.208	0.184	0.206	0.201	0.234	0.219	0.209	8.07
49)	T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	5.32
50)	S	Toluene-d8	1.397	1.186	1.208	1.398	1.130	1.259	1.263	8.88
51)	T	4-Methyl-2-Pen...	0.210	0.190	0.219	0.246	0.245	0.219	0.221	9.68
52)	CM	Toluene	0.970	0.836	0.890	0.850	0.829	0.889	0.877	5.99#
53)	T	t-1,3-Dichloro...	0.534	0.401	0.446	0.448	0.456	0.463	0.458	9.46
54)	T	cis-1,3-Dichlo...	0.541	0.493	0.527	0.505	0.530	0.551	0.524	4.14
55)	T	1,1,2-Trichlor...	0.250	0.223	0.263	0.219	0.222	0.221	0.233	8.10

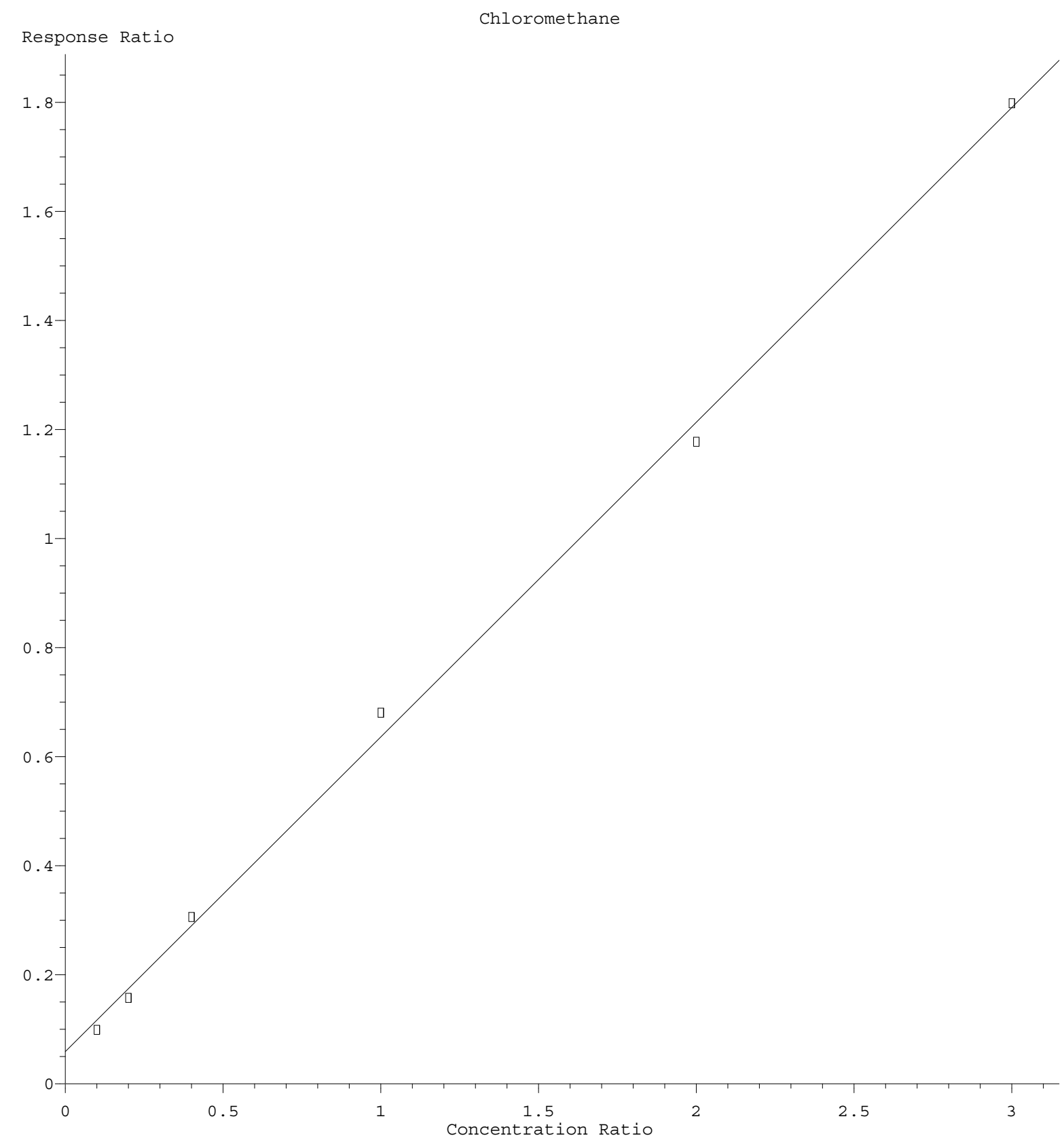
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y111924S.M

56)	T	Ethyl methacry...	0.378	0.307	0.339	0.354	0.367	0.354	0.350	7.09
57)	T	1,3-Dichloropr...	0.435	0.390	0.444	0.417	0.417	0.409	0.419	4.51
58)	T	2-Chloroethyl ...	0.178	0.162	0.160	0.156	0.167	0.172	0.166	4.96
59)	T	2-Hexanone	0.142	0.135	0.160	0.171	0.177	0.155	0.157	10.27
60)	T	Dibromochlorom...	0.319	0.273	0.307	0.305	0.297	0.300	0.300	5.06
61)	T	1,2-Dibromoethane	0.247	0.200	0.221	0.217	0.204	0.206	0.216	8.07
62)	S	4-Bromofluorob...	0.459	0.381	0.384	0.430	0.369	0.413	0.406	8.52
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.402	0.344	0.401	0.331	0.333	0.350	0.360	9.08
65)	PM	Chlorobenzene	1.258	1.079	1.083	1.144	1.040	1.085	1.115	6.97
66)	T	1,1,1,2-Tetrac...	0.428	0.351	0.360	0.369	0.354	0.372	0.372	7.60
67)	C	Ethyl Benzene	2.319	1.973	2.002	2.051	1.932	2.063	2.057	6.69#
68)	T	m/p-Xylenes	0.829	0.725	0.742	0.708	0.696	0.745	0.741	6.35
69)	T	o-Xylene	0.770	0.694	0.711	0.668	0.666	0.706	0.703	5.42
70)	T	Styrene	1.261	1.128	1.165	1.131	1.131	1.188	1.167	4.45
71)	P	Bromoform	0.207	0.180	0.195	0.189	0.199	0.194	0.194	4.68
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	4.851	4.028	4.070	4.314	3.899	4.251	4.236	7.96
74)	T	N-amyl acetate	0.918	0.878	1.001	1.094	1.164	1.085	1.024	10.82
75)	P	1,1,2,2-Tetrac...	0.729	0.646	0.683	0.728	0.676	0.646	0.685	5.44
76)	T	1,2,3-Trichlor...	0.415	0.455	0.479	0.511	0.503	0.465	0.471	7.45
77)	T	Bromobenzene	0.973	0.840	0.858	0.923	0.847	0.883	0.887	5.84
78)	T	n-propylbenzene	5.602	4.857	4.973	5.199	4.722	5.146	5.083	6.10
79)	T	2-Chlorotoluene	3.136	2.687	3.201	2.886	2.706	2.920	2.923	7.28
80)	T	1,3,5-Trimethy...	3.622	3.162	3.792	3.392	3.156	3.414	3.423	7.34
81)	T	trans-1,4-Dich...	0.235	0.214	0.230	0.256	0.257	0.252	0.241	7.14
82)	T	4-Chlorotoluene	3.301	2.810	3.266	2.948	2.773	3.000	3.016	7.42
83)	T	tert-Butylbenzene	3.233	2.921	3.004	3.092	2.801	3.073	3.021	4.94
84)	T	1,2,4-Trimethy...	3.600	3.376	3.453	3.404	3.134	3.395	3.394	4.45
85)	T	sec-Butylbenzene	5.836	4.237	4.948	5.073	4.046	4.434	4.762	13.87
86)	T	p-Isopropyltol...	4.038	3.365	3.793	3.854	3.357	3.687	3.682	7.43
87)	T	1,3-Dichlorobe...	2.072	1.668	1.839	1.848	1.621	1.719	1.794	9.11
88)	T	1,4-Dichlorobe...	1.938	1.651	1.709	1.730	1.579	1.679	1.714	7.10
89)	T	n-Butylbenzene	3.853	3.314	3.479	3.661	3.259	3.589	3.526	6.31
90)	T	Hexachloroethane	0.756	0.650	0.719	0.771	0.654	0.715	0.711	7.07
91)	T	1,2-Dichlorobe...	1.630	1.401	1.506	1.547	1.414	1.474	1.495	5.75
92)	T	1,2-Dibromo-3-...	0.130	0.098	0.108	0.119	0.113	0.105	0.112	9.98
93)	T	1,2,4-Trichlor...	0.974	0.841	0.856	0.894	0.900	0.958	0.904	5.92
94)	T	Hexachlorobuta...	0.603	0.519	0.530	0.539	0.529	0.590	0.552	6.46
95)	T	Naphthalene	1.445	1.394	1.453	1.636	1.720	1.691	1.557	9.11
96)	T	1,2,3-Trichlor...	0.817	0.784	0.721	0.748	0.762	0.806	0.773	4.69

(#) = Out of Range



R = -8.522e-004 A*A + 4.609e-002 A + 5.442e-004
Coef of Det (r^2) = 0.990971 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y111924S.M
Calibration Table Last Updated: Wed Nov 20 04:38:24 2024



Response = 5.772e-001 * Amt + 5.864e-002
Coef of Det (r^2) = 0.998139 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y111924S.M
Calibration Table Last Updated: Wed Nov 20 04:38:24 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020338.D
Acq On : 19 Nov 2024 15:49
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024

Quant Time: Nov 20 04:33:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	227223	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.616	114	374127	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	306982	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	140473	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	13832	5.299	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 10.600%#				
35) Dibromofluoromethane	7.634	113	12960	5.402	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 10.800%#				
50) Toluene-d8	10.109	98	52284	5.533	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 11.060%#				
62) 4-Bromofluorobenzene	12.408	95	17179	5.655	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 11.300%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	13013	5.900	ug/l		93
3) Chloromethane	2.068	50	22477	3.541	ug/l		98
4) Vinyl Chloride	2.208	62	18543	6.128	ug/l		99
5) Bromomethane	2.605	94	9432	6.242	ug/l		98
6) Chloroethane	2.745	64	12063	6.834	ug/l		94
7) Trichlorofluoromethane	3.068	101	25672	6.106	ug/l		97
8) Diethyl Ether	3.452	74	7250	5.465	ug/l		92
9) 1,1,2-Trichlorotrifluo...	3.818	101	15136	6.045	ug/l		99
10) Methyl Iodide	4.013	142	19213	5.728	ug/l		98
11) Tert butyl alcohol	4.860	59	7536m	35.866	ug/l		
12) 1,1-Dichloroethene	3.800	96	14708	5.934	ug/l		94
13) Acrolein	3.659	56	4362	26.985	ug/l		95
14) Allyl chloride	4.391	41	29279	6.108	ug/l		93
15) Acrylonitrile	5.061	53	16245	27.700	ug/l		97
16) Acetone	3.867	43	18219	29.112	ug/l		92
17) Carbon Disulfide	4.110	76	49286	5.902	ug/l		99
18) Methyl Acetate	4.397	43	8805	6.036	ug/l		94
19) Methyl tert-butyl Ether	5.122	73	35762	5.554	ug/l		100
20) Methylene Chloride	4.623	84	15740	5.939	ug/l		93
21) trans-1,2-Dichloroethene	5.116	96	16393	5.955	ug/l		93
22) Diisopropyl ether	6.019	45	58191	6.160	ug/l		98
23) Vinyl Acetate	5.964	43	152663	28.920	ug/l		98
24) 1,1-Dichloroethane	5.921	63	33199	6.226	ug/l		98
25) 2-Butanone	6.890	43	20288	25.181	ug/l		96
26) 2,2-Dichloropropane	6.890	77	25115	5.698	ug/l		99
27) cis-1,2-Dichloroethene	6.897	96	16128	5.319	ug/l		92
28) Bromochloromethane	7.244	49	12131	5.405	ug/l		99
29) Tetrahydrofuran	7.262	42	11283	23.431	ug/l		96
30) Chloroform	7.421	83	27219	5.286	ug/l		100
31) Cyclohexane	7.707	56	29956	6.156	ug/l	#	79
32) 1,1,1-Trichloroethane	7.622	97	24268	5.367	ug/l		98
36) 1,1-Dichloropropene	7.835	75	21801	5.950	ug/l		98
37) Ethyl Acetate	6.988	43	7806	4.569	ug/l	#	79
38) Carbon Tetrachloride	7.823	117	21497	5.619	ug/l		93
39) Methylcyclohexane	9.110	83	26014	5.673	ug/l		93
40) Benzene	8.079	78	61067	5.687	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020338.D
Acq On : 19 Nov 2024 15:49
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024

Quant Time: Nov 20 04:33:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	5114	5.355	ug/l		92
42) 1,2-Dichloroethane	8.165	62	15552	5.366	ug/l		98
43) Isopropyl Acetate	8.195	43	16024	4.909	ug/l	#	87
44) Trichloroethene	8.866	130	14519	5.707	ug/l		93
45) 1,2-Dichloropropane	9.140	63	13999	5.464	ug/l		94
46) Dibromomethane	9.231	93	6930	5.278	ug/l		97
47) Bromodichloromethane	9.420	83	19627	5.415	ug/l		95
48) Methyl methacrylate	9.225	41	7791	4.992	ug/l		94
49) 1,4-Dioxane	9.238	88	1421	105.186	ug/l	#	86
51) 4-Methyl-2-Pentanone	10.000	43	39329	23.742	ug/l		99
52) Toluene	10.170	92	36298	5.530	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	19995	5.833	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	20222	5.153	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	9364	5.372	ug/l		94
56) Ethyl methacrylate	10.439	69	14134	5.399	ug/l		97
57) 1,3-Dichloropropane	10.719	76	16257	5.190	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	33342	26.863	ug/l		98
59) 2-Hexanone	10.762	43	26616	22.690	ug/l		99
60) Dibromochloromethane	10.908	129	11937	5.313	ug/l		95
61) 1,2-Dibromoethane	11.018	107	9249	5.726	ug/l		98
64) Tetrachloroethene	10.646	164	12352	5.582	ug/l		95
65) Chlorobenzene	11.444	112	38618	5.642	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.518	131	13130	5.742	ug/l		95
67) Ethyl Benzene	11.518	91	71195	5.638	ug/l		100
68) m/p-Xylenes	11.627	106	50872	11.185	ug/l		97
69) o-Xylene	11.957	106	23650	5.482	ug/l		99
70) Styrene	11.969	104	38724	5.403	ug/l		99
71) Bromoform	12.133	173	6352	5.330	ug/l	#	96
73) Isopropylbenzene	12.255	105	68143	5.726	ug/l		99
74) N-amyl acetate	12.072	43	12902	4.487	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	10246	5.328	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	5823m	4.398	ug/l		
77) Bromobenzene	12.536	156	13674	5.485	ug/l		99
78) n-propylbenzene	12.597	91	78696	5.511	ug/l		100
79) 2-Chlorotoluene	12.682	91	44055	5.365	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	50883	5.291	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	3305	4.891	ug/l		97
82) 4-Chlorotoluene	12.780	91	46376	5.473	ug/l		97
83) tert-Butylbenzene	12.999	119	45414	5.351	ug/l		98
84) 1,2,4-Trimethylbenzene	13.048	105	50575	5.304	ug/l		100
85) sec-Butylbenzene	13.176	105	81980	6.127	ug/l		98
86) p-Isopropyltoluene	13.292	119	56716	5.483	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	29101	5.773	ug/l		98
88) 1,4-Dichlorobenzene	13.371	146	27229	5.653	ug/l		93
89) n-Butylbenzene	13.621	91	54128	5.464	ug/l		99
90) Hexachloroethane	13.883	117	10618	5.318	ug/l		99
91) 1,2-Dichlorobenzene	13.664	146	22894	5.451	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	1828	5.792	ug/l		94
93) 1,2,4-Trichlorobenzene	14.926	180	13686	5.389	ug/l		97
94) Hexachlorobutadiene	15.029	225	8471	5.465	ug/l		100
95) Naphthalene	15.151	128	20303	4.642	ug/l		98
96) 1,2,3-Trichlorobenzene	15.334	180	11474	5.284	ug/l		98

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020338.D
Acq On : 19 Nov 2024 15:49
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024

Quant Time: Nov 20 04:33:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 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

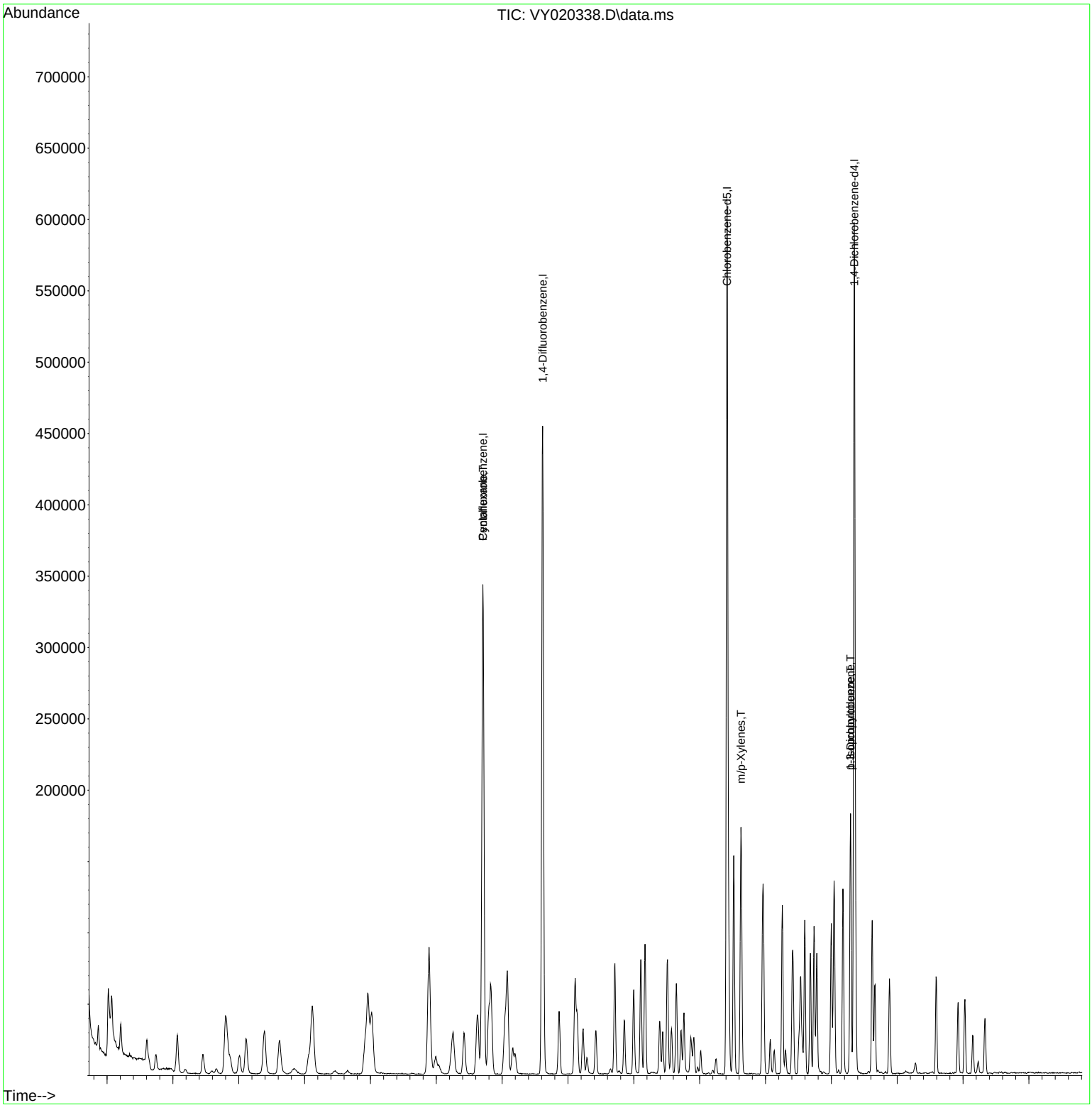
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020338.D
Acq On : 19 Nov 2024 15:49
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 20 04:33:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020339.D
Acq On : 19 Nov 2024 16:12
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 00:58:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	244176	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.616	114	390316	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	319281	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	146946	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	25534	9.102	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	18.200%#			
35) Dibromofluoromethane	7.634	113	27064	10.813	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	21.620%#			
50) Toluene-d8	10.103	98	92555	9.388	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	18.780%#			
62) 4-Bromofluorobenzene	12.408	95	29715	9.376	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	18.760%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	21870	9.227	ug/l		97
3) Chloromethane	2.068	50	38473	8.570	ug/l		98
4) Vinyl Chloride	2.208	62	35263	10.845	ug/l		94
5) Bromomethane	2.598	94	19085	11.753	ug/l		95
6) Chloroethane	2.739	64	18368	9.684	ug/l		99
7) Trichlorofluoromethane	3.062	101	42149	9.328	ug/l		99
8) Diethyl Ether	3.458	74	12779	8.964	ug/l		99
9) 1,1,2-Trichlorotrifluo...	3.824	101	24798	9.215	ug/l		99
10) Methyl Iodide	4.007	142	32100	8.906	ug/l		96
11) Tert butyl alcohol	4.884	59	10698	47.785	ug/l	#	73
12) 1,1-Dichloroethene	3.793	96	24035	9.023	ug/l		98
13) Acrolein	3.659	56	7635	43.953	ug/l		96
14) Allyl chloride	4.385	41	47740	9.268	ug/l		93
15) Acrylonitrile	5.067	53	28314	44.928	ug/l		100
16) Acetone	3.872	43	26883	39.974	ug/l		93
17) Carbon Disulfide	4.110	76	79822	8.895	ug/l		99
18) Methyl Acetate	4.397	43	13811	8.810	ug/l		97
19) Methyl tert-butyl Ether	5.122	73	63324	9.152	ug/l		99
20) Methylene Chloride	4.616	84	26668	9.364	ug/l		94
21) trans-1,2-Dichloroethene	5.116	96	27492	9.293	ug/l		91
22) Diisopropyl ether	6.018	45	99254	9.778	ug/l		96
23) Vinyl Acetate	5.964	43	270395	47.667	ug/l		98
24) 1,1-Dichloroethane	5.915	63	55718	9.723	ug/l		98
25) 2-Butanone	6.896	43	42909	49.561	ug/l		97
26) 2,2-Dichloropropane	6.884	77	47901	10.114	ug/l		99
27) cis-1,2-Dichloroethene	6.896	96	32422	9.950	ug/l		95
28) Bromochloromethane	7.244	49	27023	11.205	ug/l		94
29) Tetrahydrofuran	7.262	42	26874	51.935	ug/l		94
30) Chloroform	7.421	83	56708	10.248	ug/l		93
31) Cyclohexane	7.701	56	54063	10.338	ug/l	#	91
32) 1,1,1-Trichloroethane	7.622	97	50897	10.475	ug/l		100
36) 1,1-Dichloropropene	7.835	75	37302	9.758	ug/l		98
37) Ethyl Acetate	6.982	43	19056	10.691	ug/l		100
38) Carbon Tetrachloride	7.817	117	38996	9.770	ug/l		97
39) Methylcyclohexane	9.103	83	45833	9.580	ug/l		99
40) Benzene	8.079	78	107451	9.592	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020339.D
Acq On : 19 Nov 2024 16:12
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: Nov 20 00:58:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	10243	10.280	ug/l		99
42) 1,2-Dichloroethane	8.158	62	29009	9.593	ug/l		99
43) Isopropyl Acetate	8.201	43	30398	8.926	ug/l	#	88
44) Trichloroethene	8.865	130	25870	9.747	ug/l		98
45) 1,2-Dichloropropane	9.140	63	25874	9.680	ug/l		98
46) Dibromomethane	9.231	93	13498	9.853	ug/l		99
47) Bromodichloromethane	9.420	83	35727	9.447	ug/l		99
48) Methyl methacrylate	9.219	41	14343	8.809	ug/l		97
49) 1,4-Dioxane	9.237	88	2821	200.157	ug/l		99
51) 4-Methyl-2-Pentanone	9.999	43	74041	42.842	ug/l		100
52) Toluene	10.170	92	65234	9.527	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	31288	8.749	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	38511	9.407	ug/l		95
55) 1,1,2-Trichloroethane	10.566	97	17413	9.576	ug/l		97
56) Ethyl methacrylate	10.438	69	23973	8.778	ug/l		99
57) 1,3-Dichloropropane	10.713	76	30481	9.327	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	63051	48.691	ug/l		100
59) 2-Hexanone	10.761	43	52821	43.163	ug/l		100
60) Dibromochloromethane	10.914	129	21348	9.108	ug/l		96
61) 1,2-Dibromoethane	11.011	107	15582	9.247	ug/l		99
64) Tetrachloroethene	10.646	164	21998	9.558	ug/l		99
65) Chlorobenzene	11.438	112	68874	9.675	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	22433	9.433	ug/l		99
67) Ethyl Benzene	11.517	91	126010	9.595	ug/l		97
68) m/p-Xylenes	11.627	106	92641	19.583	ug/l		99
69) o-Xylene	11.950	106	44303	9.874	ug/l		100
70) Styrene	11.969	104	72003	9.659	ug/l		99
71) Bromoform	12.133	173	11513	9.289	ug/l	#	98
73) Isopropylbenzene	12.255	105	118383	9.510	ug/l		99
74) N-amyl acetate	12.066	43	25808	8.579	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	18981	9.435	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	13381m	9.631	ug/l		
77) Bromobenzene	12.529	156	24689	9.467	ug/l		99
78) n-propylbenzene	12.596	91	142756	9.556	ug/l		100
79) 2-Chlorotoluene	12.676	91	78983	9.195	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	92937	9.238	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	6286	8.893	ug/l		99
82) 4-Chlorotoluene	12.779	91	82594	9.317	ug/l		99
83) tert-Butylbenzene	12.999	119	85832	9.668	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	99218	9.948	ug/l		99
85) sec-Butylbenzene	13.176	105	124529	8.898	ug/l		100
86) p-Isopropyltoluene	13.291	119	98901	9.139	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	49013	9.295	ug/l		98
88) 1,4-Dichlorobenzene	13.365	146	48510	9.628	ug/l		98
89) n-Butylbenzene	13.621	91	97403	9.399	ug/l		99
90) Hexachloroethane	13.883	117	19103	9.146	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	41163	9.369	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	2892	8.760	ug/l		100
93) 1,2,4-Trichlorobenzene	14.925	180	24704	9.299	ug/l		99
94) Hexachlorobutadiene	15.029	225	15256	9.408	ug/l		98
95) Naphthalene	15.145	128	40980	8.957	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	23029	10.139	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020339.D
Acq On : 19 Nov 2024 16:12
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 00:58:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 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

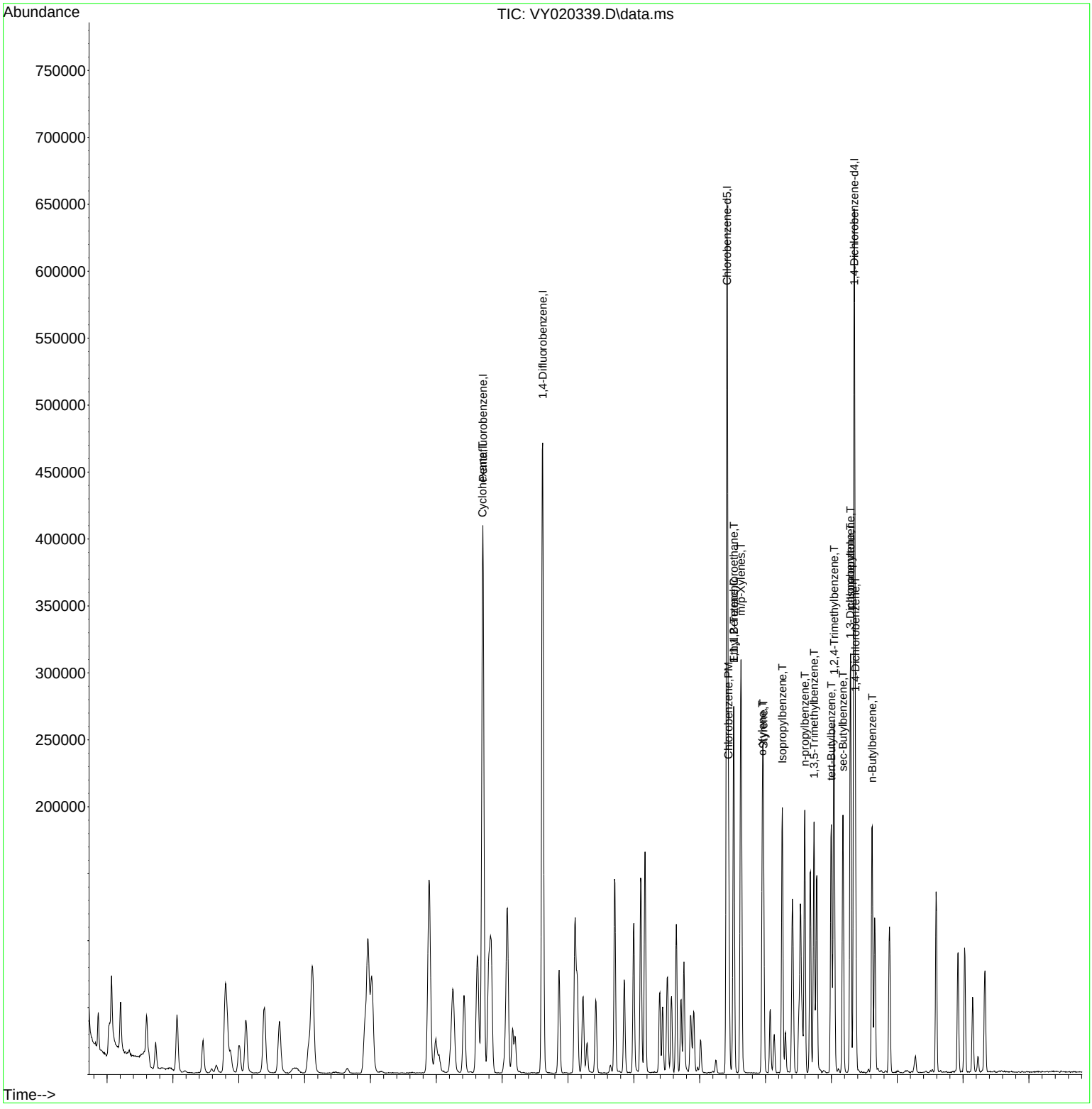
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020339.D
Acq On : 19 Nov 2024 16:12
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 20 00:58:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020340.D
Acq On : 19 Nov 2024 16:35
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:00:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	236844	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	387251	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	330555	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	152521	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	51590	18.960	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	37.920%#		
35) Dibromofluoromethane	7.634	113	47609	19.173	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	38.340%#		
50) Toluene-d8	10.103	98	187150	19.133	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	38.260%#		
62) 4-Bromofluorobenzene	12.402	95	59520	18.928	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	37.860%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	44219	19.234	ug/l	98
3) Chloromethane	2.068	50	72456	21.422	ug/l	98
4) Vinyl Chloride	2.208	62	62913	19.948	ug/l	94
5) Bromomethane	2.598	94	27790	17.643	ug/l	98
6) Chloroethane	2.739	64	34289	18.637	ug/l	95
7) Trichlorofluoromethane	3.062	101	84918	19.375	ug/l	98
8) Diethyl Ether	3.458	74	27857	20.145	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	50736	19.438	ug/l	100
10) Methyl Iodide	4.007	142	68857	19.695	ug/l	98
11) Tert butyl alcohol	4.879	59	21940	103.899	ug/l	96
12) 1,1-Dichloroethene	3.793	96	50747	19.641	ug/l	96
13) Acrolein	3.665	56	16692	99.067	ug/l	93
14) Allyl chloride	4.385	41	102220	20.460	ug/l	92
15) Acrylonitrile	5.061	53	66014	107.992	ug/l	99
16) Acetone	3.873	43	62372	95.616	ug/l	95
17) Carbon Disulfide	4.110	76	165744	19.041	ug/l	98
18) Methyl Acetate	4.385	43	32091	21.105	ug/l	96
19) Methyl tert-butyl Ether	5.116	73	140395	20.918	ug/l	100
20) Methylene Chloride	4.616	84	56330	20.392	ug/l	94
21) trans-1,2-Dichloroethene	5.122	96	59438	20.713	ug/l	91
22) Diisopropyl ether	6.019	45	178817	18.162	ug/l	95
23) Vinyl Acetate	5.964	43	505150	91.808	ug/l	100
24) 1,1-Dichloroethane	5.915	63	102627	18.464	ug/l	98
25) 2-Butanone	6.903	43	79554	94.731	ug/l	99
26) 2,2-Dichloropropane	6.890	77	85051	18.513	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	60883	19.263	ug/l	98
28) Bromochloromethane	7.244	49	41798	17.867	ug/l	99
29) Tetrahydrofuran	7.262	42	47318	94.274	ug/l	99
30) Chloroform	7.421	83	101251	18.864	ug/l	98
31) Cyclohexane	7.707	56	95143	18.757	ug/l #	91
32) 1,1,1-Trichloroethane	7.616	97	89105	18.907	ug/l	99
36) 1,1-Dichloropropene	7.835	75	75098	19.801	ug/l	99
37) Ethyl Acetate	6.988	43	34643	19.590	ug/l	98
38) Carbon Tetrachloride	7.823	117	77388	19.543	ug/l	96
39) Methylcyclohexane	9.109	83	94807	19.974	ug/l	98
40) Benzene	8.085	78	223070	20.070	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020340.D
Acq On : 19 Nov 2024 16:35
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: Nov 20 01:00:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.220	41	18360	18.572 ug/l		94
42) 1,2-Dichloroethane	8.158	62	61623	20.540 ug/l		98
43) Isopropyl Acetate	8.195	43	68510	20.277 ug/l	#	86
44) Trichloroethene	8.866	130	53189	20.198 ug/l		93
45) 1,2-Dichloropropane	9.140	63	53935	20.339 ug/l		98
46) Dibromomethane	9.231	93	27481	20.219 ug/l		97
47) Bromodichloromethane	9.420	83	74220	19.781 ug/l		99
48) Methyl methacrylate	9.219	41	31955	19.782 ug/l		99
49) 1,4-Dioxane	9.231	88	5466	390.895 ug/l		90
51) 4-Methyl-2-Pentanone	10.000	43	169490	98.848 ug/l		99
52) Toluene	10.170	92	137874	20.295 ug/l		99
53) t-1,3-Dichloropropene	10.390	75	69154	19.491 ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	81594	20.089 ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	40747	22.585 ug/l		97
56) Ethyl methacrylate	10.439	69	52436	19.353 ug/l		97
57) 1,3-Dichloropropane	10.713	76	68770	21.210 ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	123646	96.241 ug/l		99
59) 2-Hexanone	10.762	43	123944	102.083 ug/l		99
60) Dibromochloromethane	10.908	129	47578	20.459 ug/l		99
61) 1,2-Dibromoethane	11.012	107	34244	20.483 ug/l		99
64) Tetrachloroethene	10.646	164	53034	22.257 ug/l		97
65) Chlorobenzene	11.438	112	143190	19.428 ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	47541	19.309 ug/l		99
67) Ethyl Benzene	11.518	91	264743	19.471 ug/l		99
68) m/p-Xylenes	11.627	106	196288	40.078 ug/l		100
69) o-Xylene	11.950	106	94022	20.240 ug/l		97
70) Styrene	11.969	104	154055	19.960 ug/l		99
71) Bromoform	12.133	173	25826	20.127 ug/l	#	98
73) Isopropylbenzene	12.255	105	248304	19.218 ug/l		99
74) N-amyl acetate	12.072	43	61053	19.554 ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	41646	19.944 ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	29239m	20.276 ug/l		
77) Bromobenzene	12.530	156	52340	19.335 ug/l		98
78) n-propylbenzene	12.597	91	303366	19.564 ug/l		99
79) 2-Chlorotoluene	12.676	91	195281	21.904 ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	231329	22.154 ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	14013	19.100 ug/l		98
82) 4-Chlorotoluene	12.773	91	199278	21.658 ug/l		98
83) tert-Butylbenzene	12.999	119	183294	19.892 ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	210671	20.350 ug/l		99
85) sec-Butylbenzene	13.176	105	301882	20.781 ug/l		100
86) p-Isopropyltoluene	13.292	119	231391	20.601 ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	112176	20.495 ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	104265	19.938 ug/l		99
89) n-Butylbenzene	13.615	91	212277	19.735 ug/l		100
90) Hexachloroethane	13.883	117	43848	20.226 ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	91859	20.143 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	6596	19.250 ug/l		91
93) 1,2,4-Trichlorobenzene	14.919	180	52226	18.941 ug/l		99
94) Hexachlorobutadiene	15.023	225	32319	19.202 ug/l		99
95) Naphthalene	15.145	128	88652	18.669 ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	43998	18.662 ug/l		97

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020340.D
Acq On : 19 Nov 2024 16:35
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:00:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 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

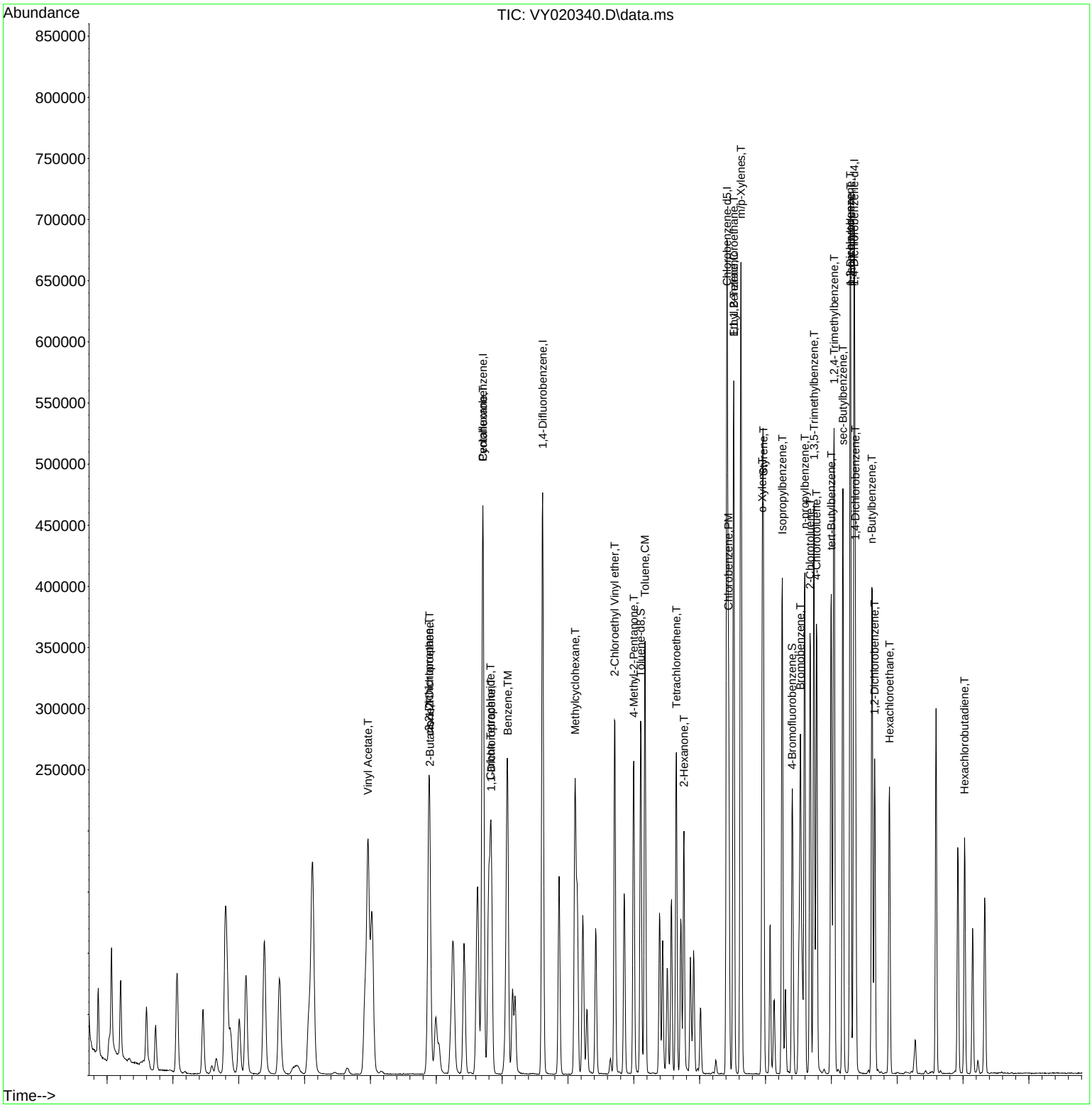
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020340.D
Acq On : 19 Nov 2024 16:35
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 20 01:00:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020341.D
Acq On : 19 Nov 2024 16:57
Operator : SY/MD
Sample : VSTDICC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:01:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	227113	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	420316	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	360842	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	149547	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	144497	55.378	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.760%			
35) Dibromofluoromethane	7.634	113	135608	50.315	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.620%			
50) Toluene-d8	10.109	98	587453	55.332	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 110.660%			
62) 4-Bromofluorobenzene	12.402	95	180882	52.998	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 106.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	103026	46.735	ug/l	100
3) Chloromethane	2.068	50	154573	53.880	ug/l	100
4) Vinyl Chloride	2.208	62	141208	46.691	ug/l	100
5) Bromomethane	2.598	94	71314	47.214	ug/l	100
6) Chloroethane	2.739	64	83973	47.597	ug/l	100
7) Trichlorofluoromethane	3.062	101	211527	50.331	ug/l	100
8) Diethyl Ether	3.458	74	69448	52.373	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	134494	53.736	ug/l	100
10) Methyl Iodide	4.007	142	187546	55.942	ug/l	100
11) Tert butyl alcohol	4.879	59	41051	212.148	ug/l	100
12) 1,1-Dichloroethene	3.793	96	133044	53.701	ug/l	100
13) Acrolein	3.659	56	41213	255.080	ug/l	100
14) Allyl chloride	4.391	41	214855	44.846	ug/l	100
15) Acrylonitrile	5.061	53	140610	239.879	ug/l	100
16) Acetone	3.873	43	181648	290.397	ug/l	100
17) Carbon Disulfide	4.110	76	470701	56.393	ug/l	100
18) Methyl Acetate	4.391	43	68494	46.975	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	317819	49.382	ug/l	100
20) Methylene Chloride	4.616	84	129583	48.919	ug/l	100
21) trans-1,2-Dichloroethene	5.122	96	136395	49.567	ug/l	100
22) Diisopropyl ether	6.025	45	457338	48.440	ug/l	100
23) Vinyl Acetate	5.964	43	1302817	246.924	ug/l	100
24) 1,1-Dichloroethane	5.921	63	258252	48.453	ug/l	100
25) 2-Butanone	6.896	43	203885	253.183	ug/l	100
26) 2,2-Dichloropropane	6.884	77	217639	49.403	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	156034	51.482	ug/l	100
28) Bromochloromethane	7.244	49	115631	51.546	ug/l	100
29) Tetrahydrofuran	7.268	42	121226	251.872	ug/l	100
30) Chloroform	7.421	83	280651	54.528	ug/l	100
31) Cyclohexane	7.701	56	235065	48.327	ug/l	100
32) 1,1,1-Trichloroethane	7.622	97	226463	50.111	ug/l	100
36) 1,1-Dichloropropene	7.841	75	190663	46.316	ug/l	100
37) Ethyl Acetate	6.988	43	89102	46.422	ug/l	100
38) Carbon Tetrachloride	7.823	117	200826	46.725	ug/l	100
39) Methylcyclohexane	9.110	83	245019	47.559	ug/l	100
40) Benzene	8.079	78	566676	46.974	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020341.D
Acq On : 19 Nov 2024 16:57
Operator : SY/MD
Sample : VSTDICC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:01:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.226	41	49407	46.047 ug/l	100
42) 1,2-Dichloroethane	8.158	62	152946	46.970 ug/l	100
43) Isopropyl Acetate	8.195	43	177802	48.484 ug/l	100
44) Trichloroethene	8.866	130	134577	47.083 ug/l	100
45) 1,2-Dichloropropane	9.140	63	134142	46.606 ug/l	100
46) Dibromomethane	9.231	93	72212	48.950 ug/l	100
47) Bromodichloromethane	9.420	83	206587	50.729 ug/l	100
48) Methyl methacrylate	9.219	41	84404	48.140 ug/l	100
49) 1,4-Dioxane	9.238	88	14757	972.312 ug/l	100
51) 4-Methyl-2-Pentanone	10.000	43	516270	277.407 ug/l	100
52) Toluene	10.170	92	357134	48.435 ug/l	100
53) t-1,3-Dichloropropene	10.390	75	188307	48.898 ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	212293	48.156 ug/l	100
55) 1,1,2-Trichloroethane	10.573	97	91951	46.957 ug/l	100
56) Ethyl methacrylate	10.439	69	148986	50.661 ug/l	100
57) 1,3-Dichloropropane	10.713	76	175316	49.817 ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	328825	235.811 ug/l	100
59) 2-Hexanone	10.762	43	358788	272.258 ug/l	100
60) Dibromochloromethane	10.908	129	128210	50.796 ug/l	100
61) 1,2-Dibromoethane	11.012	107	91358	50.347 ug/l	100
64) Tetrachloroethene	10.646	164	119531	45.954 ug/l	100
65) Chlorobenzene	11.438	112	412910	51.322 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	133303	49.598 ug/l	100
67) Ethyl Benzene	11.518	91	740094	49.862 ug/l	100
68) m/p-Xylenes	11.627	106	510631	95.509 ug/l	100
69) o-Xylene	11.957	106	241061	47.538 ug/l	100
70) Styrene	11.969	104	408085	48.436 ug/l	100
71) Bromoform	12.133	173	68064	48.591 ug/l	100
73) Isopropylbenzene	12.255	105	645114	50.923 ug/l	100
74) N-amyl acetate	12.072	43	163678	53.464 ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.505	83	108812	53.145 ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	76443m	54.065 ug/l	
77) Bromobenzene	12.530	156	137993	51.991 ug/l	100
78) n-propylbenzene	12.597	91	777424	51.134 ug/l	100
79) 2-Chlorotoluene	12.682	91	431579	49.371 ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	507211	49.541 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	38276	53.209 ug/l	100
82) 4-Chlorotoluene	12.780	91	440797	48.859 ug/l	100
83) tert-Butylbenzene	12.999	119	462472	51.187 ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	508985	50.144 ug/l	100
85) sec-Butylbenzene	13.176	105	758609	53.259 ug/l	100
86) p-Isopropyltoluene	13.292	119	576317	52.331 ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	276359	51.496 ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	258732	50.459 ug/l	100
89) n-Butylbenzene	13.621	91	547533	51.917 ug/l	100
90) Hexachloroethane	13.877	117	115268	54.229 ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	231279	51.724 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	17802	52.987 ug/l	100
93) 1,2,4-Trichlorobenzene	14.919	180	133647	49.434 ug/l	100
94) Hexachlorobutadiene	15.023	225	80673	48.885 ug/l	100
95) Naphthalene	15.145	128	244680	52.551 ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	111791	48.361 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020341.D
Acq On : 19 Nov 2024 16:57
Operator : SY/MD
Sample : VSTDICC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:01:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 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

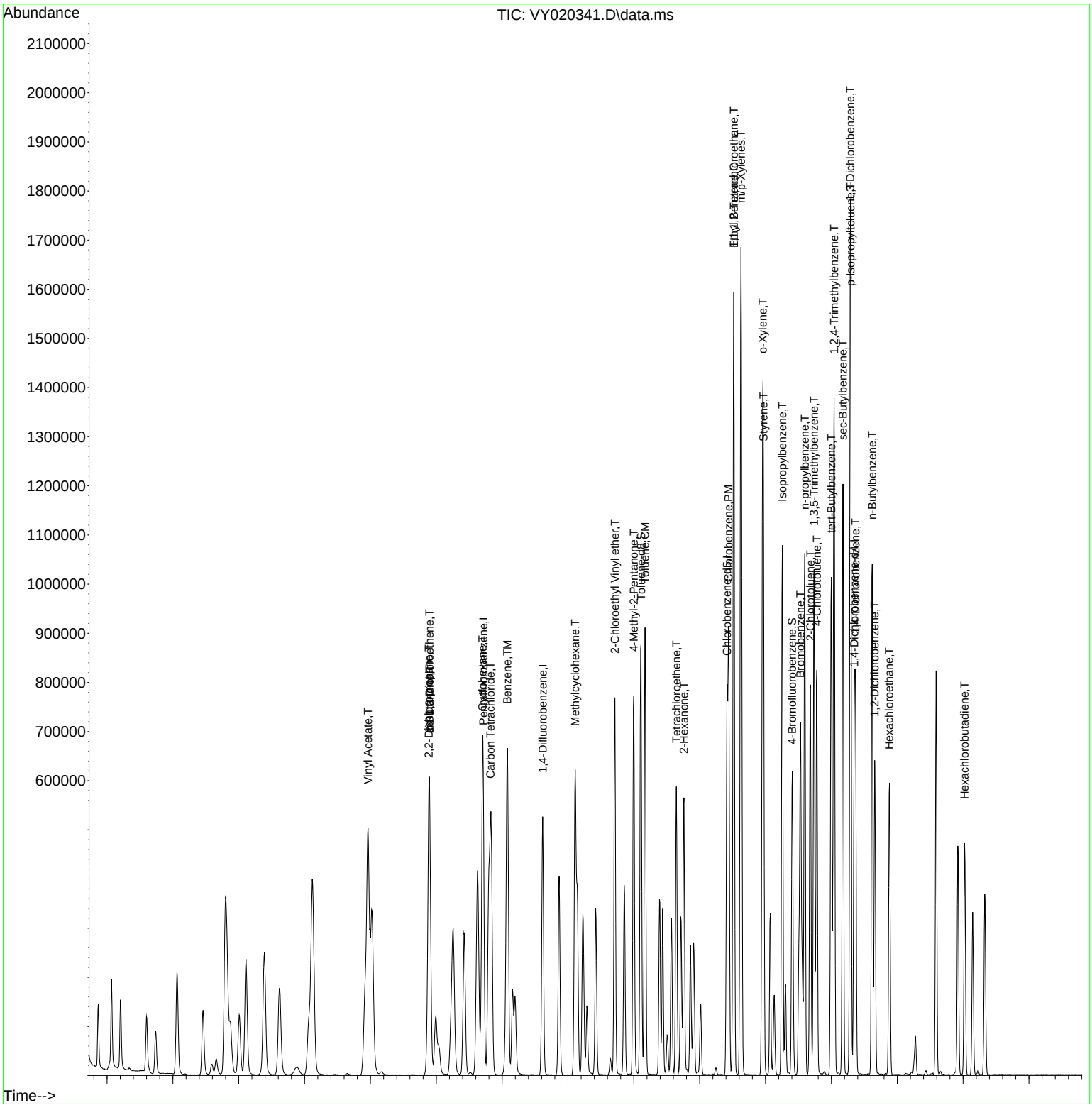
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020341.D
Acq On : 19 Nov 2024 16:57
Operator : SY/MD
Sample : VSTDICC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 20 01:01:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020342.D
Acq On : 19 Nov 2024 17:20
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:02:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	242950	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	418120	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	343084	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	154843	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	273625	98.031	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 196.060%#			
35) Dibromofluoromethane	7.634	113	241148	89.944	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 179.880%#			
50) Toluene-d8	10.109	98	944968	89.473	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 178.940%#			
62) 4-Bromofluorobenzene	12.401	95	308231	90.785	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 181.580%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.866	85	225851	95.772	ug/l	100
3) Chloromethane	2.068	50	286074	96.926	ug/l	98
4) Vinyl Chloride	2.202	62	278011	85.934	ug/l	100
5) Bromomethane	2.598	94	135928	84.127	ug/l	99
6) Chloroethane	2.738	64	162455	86.079	ug/l	99
7) Trichlorofluoromethane	3.061	101	399021	88.755	ug/l	100
8) Diethyl Ether	3.458	74	138894	97.917	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.817	101	232946	87.004	ug/l	100
10) Methyl Iodide	4.006	142	325705	90.820	ug/l	97
11) Tert butyl alcohol	4.890	59	97795	546.604	ug/l	99
12) 1,1-Dichloroethene	3.793	96	236992	89.422	ug/l	99
13) Acrolein	3.659	56	86380	499.781	ug/l	97
14) Allyl chloride	4.384	41	485310	94.695	ug/l	92
15) Acrylonitrile	5.061	53	322609	514.491	ug/l	99
16) Acetone	3.878	43	343146	512.820	ug/l	98
17) Carbon Disulfide	4.110	76	800247	89.624	ug/l	99
18) Methyl Acetate	4.390	43	159022	101.952	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	681962	99.054	ug/l	97
20) Methylene Chloride	4.616	84	264054	93.186	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	267977	91.038	ug/l	91
22) Diisopropyl ether	6.024	45	982564	97.286	ug/l	98
23) Vinyl Acetate	5.963	43	2923388	517.954	ug/l	98
24) 1,1-Dichloroethane	5.921	63	535189	93.866	ug/l	99
25) 2-Butanone	6.896	43	479489	556.614	ug/l	97
26) 2,2-Dichloropropane	6.890	77	446478	94.743	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	314285	96.937	ug/l	98
28) Bromochloromethane	7.250	49	218420	91.020	ug/l	95
29) Tetrahydrofuran	7.268	42	290644	564.509	ug/l	96
30) Chloroform	7.420	83	516773	93.860	ug/l	98
31) Cyclohexane	7.707	56	470793	90.481	ug/l	96
32) 1,1,1-Trichloroethane	7.622	97	456631	94.454	ug/l	99
36) 1,1-Dichloropropene	7.835	75	379162	92.591	ug/l	99
37) Ethyl Acetate	6.988	43	204144	106.917	ug/l	99
38) Carbon Tetrachloride	7.823	117	403792	94.441	ug/l	99
39) Methylcyclohexane	9.109	83	476688	93.013	ug/l	98
40) Benzene	8.079	78	1152457	96.033	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020342.D
Acq On : 19 Nov 2024 17:20
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: Nov 20 01:02:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	113838	106.653	ug/l		98
42) 1,2-Dichloroethane	8.158	62	322641	99.603	ug/l		99
43) Isopropyl Acetate	8.201	43	411623	112.833	ug/l		99
44) Trichloroethene	8.865	130	265744	93.462	ug/l		99
45) 1,2-Dichloropropane	9.140	63	279709	97.691	ug/l		100
46) Dibromomethane	9.231	93	145980	99.474	ug/l		99
47) Bromodichloromethane	9.420	83	387534	95.661	ug/l		99
48) Methyl methacrylate	9.219	41	195485	112.081	ug/l		94
49) 1,4-Dioxane	9.243	88	32314	2140.293	ug/l	#	82
51) 4-Methyl-2-Pentanone	9.999	43	1025042	553.677	ug/l		99
52) Toluene	10.170	92	692884	94.463	ug/l		99
53) t-1,3-Dichloropropene	10.389	75	380932	99.436	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	442841	100.981	ug/l		99
55) 1,1,2-Trichloroethane	10.572	97	185332	95.141	ug/l		100
56) Ethyl methacrylate	10.438	69	307069	104.964	ug/l		99
57) 1,3-Dichloropropane	10.712	76	348373	99.512	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	700335	504.870	ug/l		98
59) 2-Hexanone	10.761	43	741041	565.275	ug/l		100
60) Dibromochloromethane	10.908	129	248066	98.797	ug/l		99
61) 1,2-Dibromoethane	11.011	107	170430	94.416	ug/l		100
64) Tetrachloroethene	10.645	164	228791	92.512	ug/l		98
65) Chlorobenzene	11.438	112	713827	93.316	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.517	131	243130	95.143	ug/l		99
67) Ethyl Benzene	11.517	91	1325393	93.917	ug/l		100
68) m/p-Xylenes	11.627	106	955240	187.918	ug/l		97
69) o-Xylene	11.956	106	457290	94.846	ug/l		98
70) Styrene	11.968	104	776130	96.888	ug/l		98
71) Bromoform	12.133	173	136679	102.627	ug/l	#	99
73) Isopropylbenzene	12.255	105	1207507	92.057	ug/l		99
74) N-amyl acetate	12.072	43	360546	113.742	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	209284	98.722	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	155715m	106.363	ug/l		
77) Bromobenzene	12.529	156	262304	95.447	ug/l		96
78) n-propylbenzene	12.596	91	1462491	92.904	ug/l		100
79) 2-Chlorotoluene	12.682	91	837998	92.584	ug/l		99
80) 1,3,5-Trimethylbenzene	12.736	105	977514	92.211	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	79441	106.658	ug/l		97
82) 4-Chlorotoluene	12.779	91	858743	91.930	ug/l		97
83) tert-Butylbenzene	12.999	119	867475	92.729	ug/l		98
84) 1,2,4-Trimethylbenzene	13.041	105	970690	92.360	ug/l		99
85) sec-Butylbenzene	13.175	105	1252922	84.955	ug/l		99
86) p-Isopropyltoluene	13.291	119	1039560	91.166	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	502006	90.342	ug/l		99
88) 1,4-Dichlorobenzene	13.364	146	489016	92.108	ug/l		99
89) n-Butylbenzene	13.620	91	1009278	92.426	ug/l		99
90) Hexachloroethane	13.883	117	202571	92.042	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	437794	94.562	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	35093	100.881	ug/l		94
93) 1,2,4-Trichlorobenzene	14.919	180	278868	99.621	ug/l		99
94) Hexachlorobutadiene	15.023	225	163774	95.847	ug/l		98
95) Naphthalene	15.145	128	532709	110.498	ug/l		100
96) 1,2,3-Trichlorobenzene	15.334	180	235988	98.597	ug/l		100

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020342.D
Acq On : 19 Nov 2024 17:20
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:02:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 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

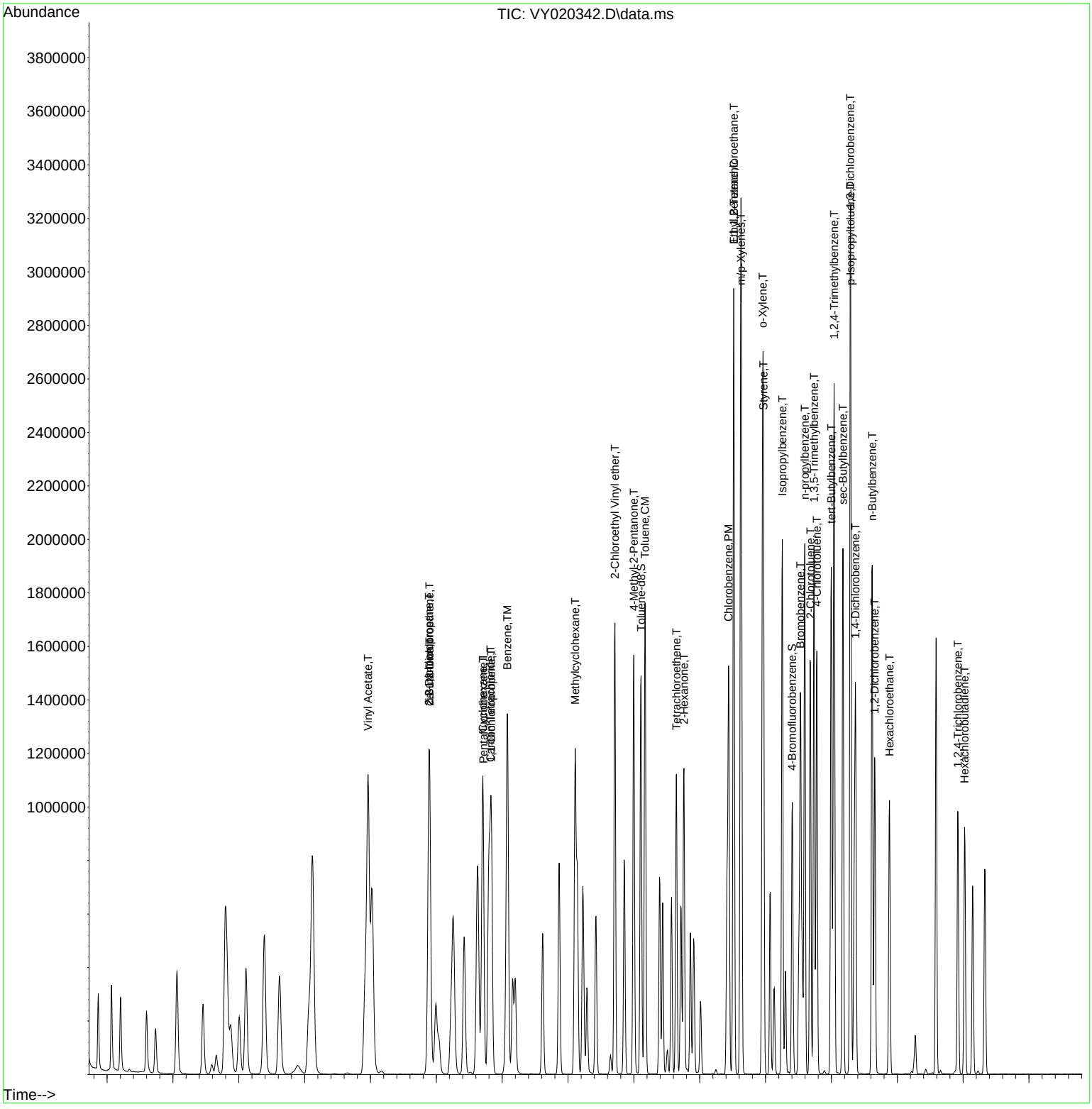
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020342.D
Acq On : 19 Nov 2024 17:20
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 20 01:02:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020343.D
Acq On : 19 Nov 2024 17:42
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:03:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	211886	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	350739	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	296115	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	130996	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	363043	149.135	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 298.280%#			
35) Dibromofluoromethane	7.634	113	328532	146.077	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 292.160%#			
50) Toluene-d8	10.109	98	1324547	149.507	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 299.020%#			
62) 4-Bromofluorobenzene	12.407	95	434570	152.587	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 305.180%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	321802	156.466	ug/l	99
3) Chloromethane	2.068	50	381050	150.712	ug/l	97
4) Vinyl Chloride	2.208	62	380588	134.887	ug/l	99
5) Bromomethane	2.598	94	192082	136.310	ug/l	98
6) Chloroethane	2.738	64	227195	138.032	ug/l	99
7) Trichlorofluoromethane	3.062	101	578218	147.470	ug/l	99
8) Diethyl Ether	3.458	74	181261	146.519	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	333758	142.933	ug/l	99
10) Methyl Iodide	4.007	142	446636	142.799	ug/l	97
11) Tert butyl alcohol	4.891	59	104155	729.517	ug/l	99
12) 1,1-Dichloroethene	3.793	96	333059	144.094	ug/l	100
13) Acrolein	3.659	56	116557	773.250	ug/l	100
14) Allyl chloride	4.384	41	660146	147.694	ug/l	93
15) Acrylonitrile	5.061	53	379392	693.752	ug/l	99
16) Acetone	3.872	43	390697	669.485	ug/l	97
17) Carbon Disulfide	4.110	76	1114337	143.098	ug/l	100
18) Methyl Acetate	4.384	43	183151	134.637	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	855630	142.499	ug/l	98
20) Methylene Chloride	4.616	84	350664	141.893	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	362921	141.368	ug/l	93
22) Diisopropyl ether	6.024	45	1242472	141.056	ug/l	97
23) Vinyl Acetate	5.963	43	3500470	711.125	ug/l	99
24) 1,1-Dichloroethane	5.921	63	709814	142.745	ug/l	99
25) 2-Butanone	6.896	43	523049	696.197	ug/l	99
26) 2,2-Dichloropropane	6.884	77	608998	148.175	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	415289	146.869	ug/l	98
28) Bromochloromethane	7.250	49	302639	144.606	ug/l	97
29) Tetrahydrofuran	7.268	42	318185	708.605	ug/l	96
30) Chloroform	7.427	83	681143	141.851	ug/l	99
31) Cyclohexane	7.701	56	630214	138.877	ug/l	96
32) 1,1,1-Trichloroethane	7.622	97	624176	148.040	ug/l	98
36) 1,1-Dichloropropene	7.835	75	511136	148.798	ug/l	99
37) Ethyl Acetate	6.988	43	224596	140.226	ug/l	99
38) Carbon Tetrachloride	7.823	117	561195	156.470	ug/l	97
39) Methylcyclohexane	9.109	83	662542	154.113	ug/l	95
40) Benzene	8.085	78	1510257	150.024	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020343.D
Acq On : 19 Nov 2024 17:42
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: Nov 20 01:03:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.219	41	132286	147.746 ug/l		94
42) 1,2-Dichloroethane	8.158	62	409666	150.765 ug/l		99
43) Isopropyl Acetate	8.195	43	465329	152.060 ug/l	#	89
44) Trichloroethene	8.865	130	356988	149.672 ug/l		99
45) 1,2-Dichloropropane	9.140	63	365003	151.971 ug/l		98
46) Dibromomethane	9.231	93	179946	146.176 ug/l		99
47) Bromodichloromethane	9.420	83	515924	151.819 ug/l		97
48) Methyl methacrylate	9.219	41	229979	157.189 ug/l		95
49) 1,4-Dioxane	9.237	88	35246	2782.975 ug/l		94
51) 4-Methyl-2-Pentanone	9.999	43	1150805	741.026 ug/l		100
52) Toluene	10.170	92	935063	151.970 ug/l		99
53) t-1,3-Dichloropropene	10.390	75	487634	151.743 ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	580042	157.678 ug/l		97
55) 1,1,2-Trichloroethane	10.572	97	232403	142.225 ug/l		99
56) Ethyl methacrylate	10.438	69	372428	151.763 ug/l		99
57) 1,3-Dichloropropane	10.713	76	430536	146.608 ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	904374	777.210 ug/l		99
59) 2-Hexanone	10.761	43	815456	741.541 ug/l		99
60) Dibromochloromethane	10.908	129	315843	149.957 ug/l		99
61) 1,2-Dibromoethane	11.011	107	216859	143.217 ug/l		100
64) Tetrachloroethene	10.646	164	310822	145.616 ug/l		98
65) Chlorobenzene	11.438	112	963689	145.962 ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	330635	149.908 ug/l		98
67) Ethyl Benzene	11.517	91	1832488	150.446 ug/l		100
68) m/p-Xylenes	11.627	106	1323776	301.724 ug/l		97
69) o-Xylene	11.956	106	627311	150.747 ug/l		97
70) Styrene	11.968	104	1055739	152.698 ug/l		98
71) Bromoform	12.127	173	172522	150.087 ug/l	#	99
73) Isopropylbenzene	12.255	105	1670748	150.561 ug/l		100
74) N-amyl acetate	12.066	43	426531	159.054 ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	253871	141.554 ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	182550m	147.393 ug/l		
77) Bromobenzene	12.529	156	347120	149.303 ug/l		97
78) n-propylbenzene	12.596	91	2022361	151.856 ug/l		100
79) 2-Chlorotoluene	12.682	91	1147443	149.851 ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	1341749	149.611 ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	98926	156.997 ug/l		96
82) 4-Chlorotoluene	12.779	91	1178773	149.162 ug/l		97
83) tert-Butylbenzene	12.999	119	1207733	152.603 ug/l		98
84) 1,2,4-Trimethylbenzene	13.041	105	1334165	150.053 ug/l		99
85) sec-Butylbenzene	13.176	105	1742388	139.651 ug/l		99
86) p-Isopropyltoluene	13.291	119	1448758	150.180 ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	675457	143.686 ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	659854	146.911 ug/l		99
89) n-Butylbenzene	13.621	91	1410591	152.692 ug/l		99
90) Hexachloroethane	13.883	117	280814	150.820 ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	579091	147.851 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	41248	140.161 ug/l		95
93) 1,2,4-Trichlorobenzene	14.919	180	376647	159.045 ug/l		100
94) Hexachlorobutadiene	15.029	225	232003	160.494 ug/l		99
95) Naphthalene	15.145	128	664631	162.960 ug/l		100
96) 1,2,3-Trichlorobenzene	15.334	180	316780	156.446 ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020343.D
Acq On : 19 Nov 2024 17:42
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:03:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 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

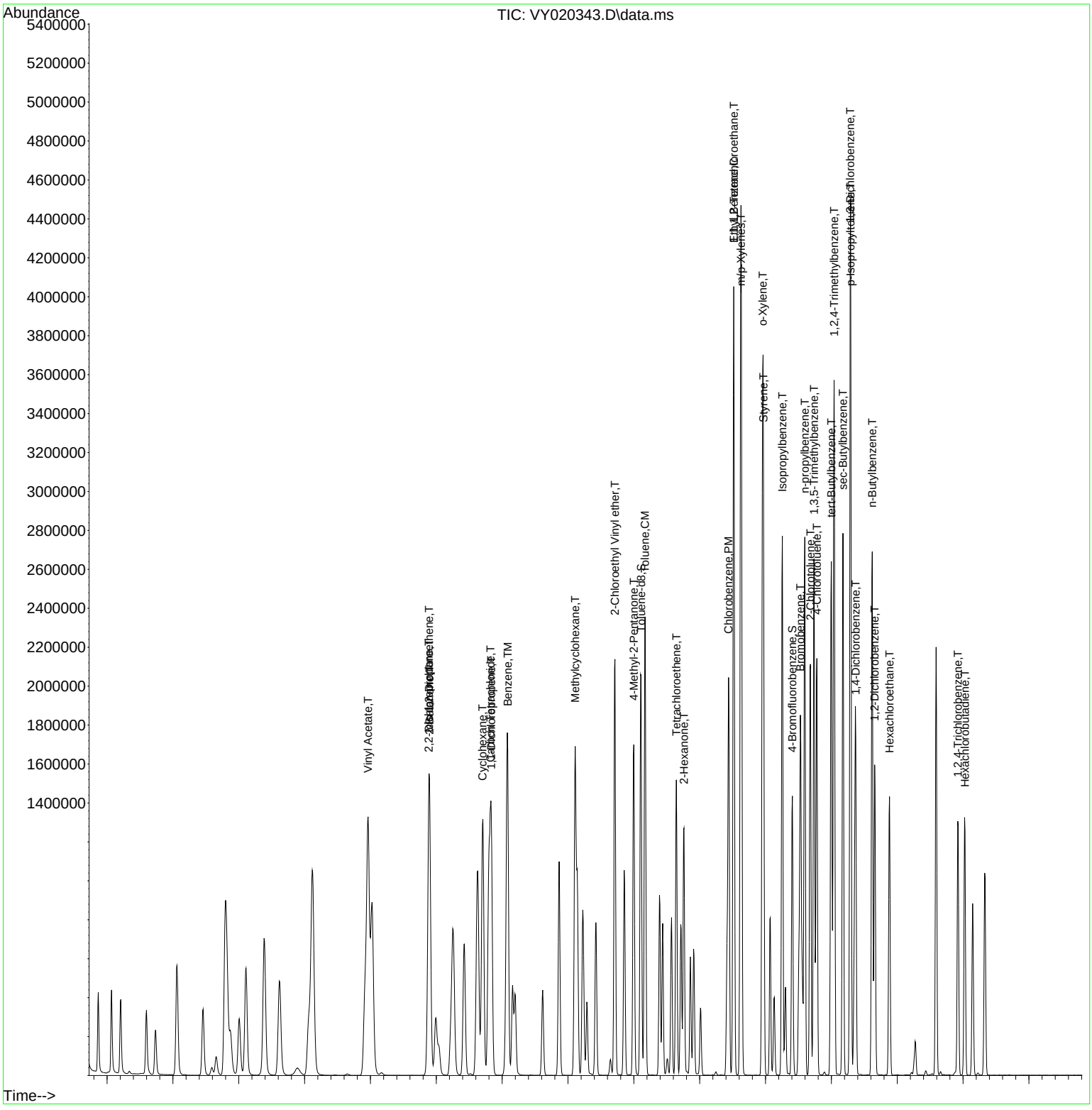
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020343.D
Acq On : 19 Nov 2024 17:42
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 20 01:03:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 00:48:27 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY111924

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	218521	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	364341	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	309693	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	141489	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	110537	44.029	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	88.060%		
35) Dibromofluoromethane	7.634	113	97280	41.639	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	83.280%		
50) Toluene-d8	10.103	98	388428	42.207	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	84.420%		
62) 4-Bromofluorobenzene	12.408	95	130125	43.984	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	87.960%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	111072	52.365	ug/l	97
3) Chloromethane	2.068	50	125077	44.505	ug/l	99
4) Vinyl Chloride	2.208	62	123286	42.368	ug/l	99
5) Bromomethane	2.598	94	68717	47.284	ug/l	99
6) Chloroethane	2.739	64	75903	44.715	ug/l	99
7) Trichlorofluoromethane	3.062	101	199645	49.372	ug/l	99
8) Diethyl Ether	3.458	74	62415	48.920	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	113049	46.944	ug/l	98
10) Methyl Iodide	4.007	142	155561	48.226	ug/l	96
11) Tert butyl alcohol	4.872	59	41539	224.231	ug/l	100
12) 1,1-Dichloroethene	3.793	96	112225	47.078	ug/l	95
13) Acrolein	3.659	56	41518	267.071	ug/l	100
14) Allyl chloride	4.385	41	220954	47.933	ug/l	94
15) Acrylonitrile	5.061	53	143447	254.341	ug/l	99
16) Acetone	3.873	43	143018	237.630	ug/l	98
17) Carbon Disulfide	4.110	76	373607	46.520	ug/l	99
18) Methyl Acetate	4.385	43	70746	50.427	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	308971	49.895	ug/l	98
20) Methylene Chloride	4.616	84	123291	48.374	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	124677	47.091	ug/l	92
22) Diisopropyl ether	6.025	45	437612	48.173	ug/l	97
23) Vinyl Acetate	5.964	43	1280046	252.147	ug/l	99
24) 1,1-Dichloroethane	5.915	63	244354	47.648	ug/l	98
25) 2-Butanone	6.896	43	202028	260.742	ug/l	99
26) 2,2-Dichloropropane	6.890	77	205933	48.584	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	145516	49.900	ug/l	99
28) Bromochloromethane	7.250	49	103614	48.005	ug/l	96
29) Tetrahydrofuran	7.262	42	124725	269.331	ug/l	97
30) Chloroform	7.421	83	238810	48.223	ug/l	97
31) Cyclohexane	7.701	56	224125	47.890	ug/l	98
32) 1,1,1-Trichloroethane	7.622	97	219357	50.447	ug/l	97
36) 1,1-Dichloropropene	7.835	75	177989	49.880	ug/l	99
37) Ethyl Acetate	6.988	43	89280	54.618	ug/l	99
38) Carbon Tetrachloride	7.823	117	194915	52.317	ug/l	99
39) Methylcyclohexane	9.110	83	229207	51.325	ug/l	98
40) Benzene	8.079	78	531435	50.820	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY111924

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	51821	55.717	ug/l		96
42) 1,2-Dichloroethane	8.158	62	148909	52.755	ug/l		99
43) Isopropyl Acetate	8.195	43	177020	55.687	ug/l		99
44) Trichloroethene	8.866	130	124155	50.110	ug/l		95
45) 1,2-Dichloropropane	9.140	63	126442	50.680	ug/l		99
46) Dibromomethane	9.231	93	64729	50.618	ug/l		99
47) Bromodichloromethane	9.420	83	180213	51.051	ug/l		98
48) Methyl methacrylate	9.219	41	84558	55.637	ug/l		95
49) 1,4-Dioxane	9.238	88	13548	1029.795	ug/l		90
51) 4-Methyl-2-Pentanone	10.000	43	442279	274.160	ug/l		100
52) Toluene	10.170	92	326653	51.107	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	172434	51.655	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	202123	52.893	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	85673	50.472	ug/l		98
56) Ethyl methacrylate	10.439	69	136602	53.587	ug/l		99
57) 1,3-Dichloropropane	10.713	76	159236	52.199	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	300898	248.935	ug/l		100
59) 2-Hexanone	10.762	43	313607	274.534	ug/l		99
60) Dibromochloromethane	10.908	129	114042	52.124	ug/l		99
61) 1,2-Dibromoethane	11.012	107	79188	50.344	ug/l		98
64) Tetrachloroethene	10.646	164	109940	49.247	ug/l		98
65) Chlorobenzene	11.438	112	338718	49.054	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.512	131	115723	50.168	ug/l		99
67) Ethyl Benzene	11.518	91	635246	49.867	ug/l		100
68) m/p-Xylenes	11.627	106	465220	101.387	ug/l		97
69) o-Xylene	11.957	106	221747	50.951	ug/l		99
70) Styrene	11.969	104	371095	51.321	ug/l		98
71) Bromoform	12.133	173	63418	52.752	ug/l	#	99
73) Isopropylbenzene	12.255	105	592489	49.433	ug/l		100
74) N-amyl acetate	12.072	43	158787	54.821	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	97478	50.321	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	71473m	53.595	ug/l		
77) Bromobenzene	12.530	156	124523	49.588	ug/l		96
78) n-propylbenzene	12.597	91	717478	49.879	ug/l		100
79) 2-Chlorotoluene	12.676	91	407383	49.257	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	478483	49.396	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	34976	51.391	ug/l		99
82) 4-Chlorotoluene	12.780	91	419222	49.114	ug/l		97
83) tert-Butylbenzene	12.999	119	433770	50.744	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	475972	49.562	ug/l		99
85) sec-Butylbenzene	13.176	105	620804	46.067	ug/l		100
86) p-Isopropyltoluene	13.292	119	516099	49.532	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	242241	47.709	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	239050	49.275	ug/l		99
89) n-Butylbenzene	13.615	91	497286	49.838	ug/l		99
90) Hexachloroethane	13.877	117	97244	48.355	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	212235	50.169	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	15688	49.354	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	133013	52.001	ug/l		100
94) Hexachlorobutadiene	15.023	225	82641	52.929	ug/l		99
95) Naphthalene	15.145	128	250875	56.950	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	112500	51.439	ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY111924

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 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

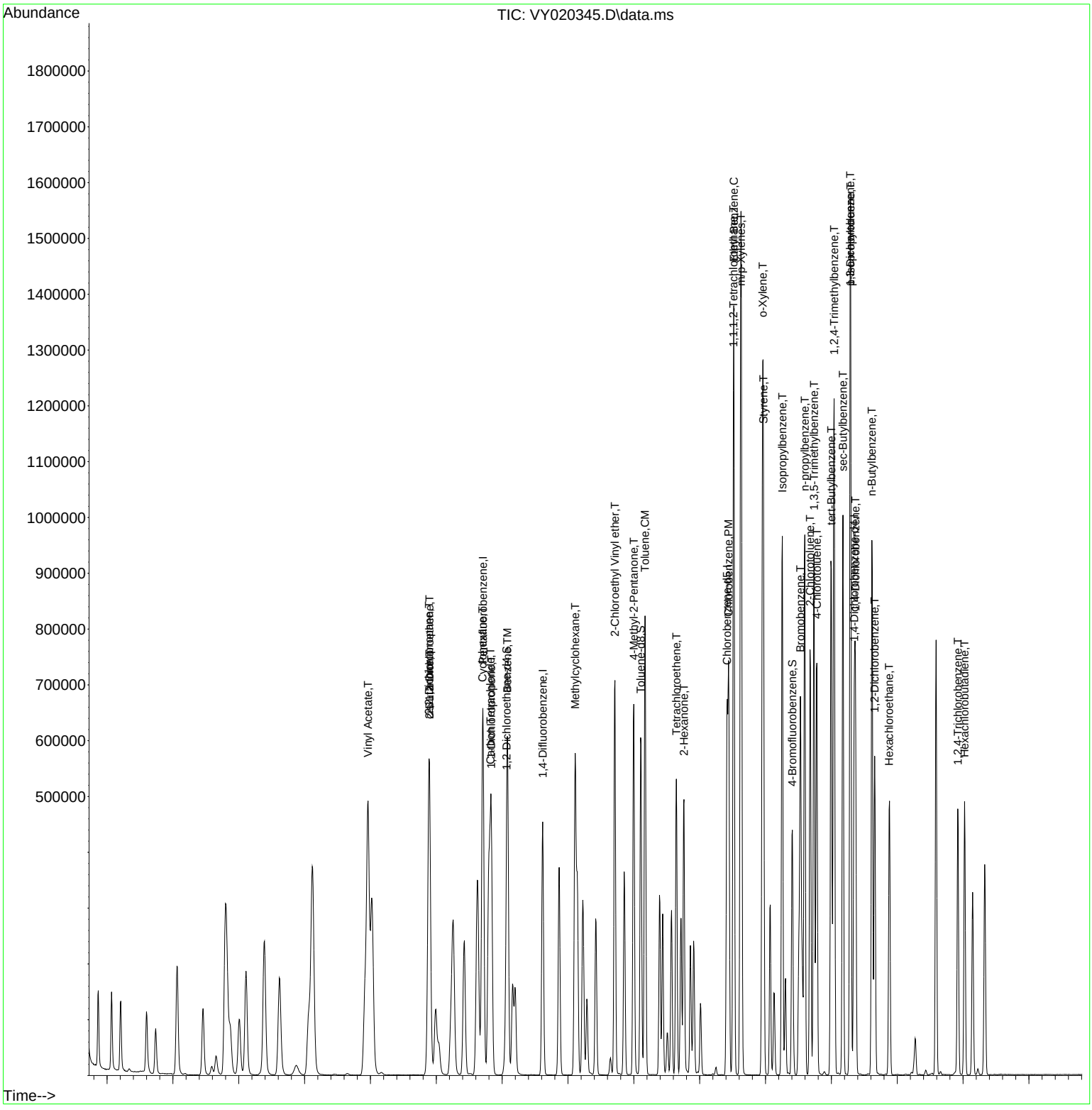
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY111924

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024
Supervised By :Semsettin Yesilyurt 11/25/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY111924

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 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	96	0.00
2	T	Dichlorodifluoromethane	0.485	0.508	-4.7	108	0.00
3	P	Chloromethane	0.735	0.572	22.2	81	0.00
4	C	Vinyl Chloride	0.666	0.564	15.3#	87	0.00
5	T	Bromomethane	0.333	0.314	5.7	96	0.00
6	T	Chloroethane	0.388	0.347	10.6	90	0.00
7	T	Trichlorofluoromethane	0.925	0.914	1.2	94	0.00
8	T	Diethyl Ether	0.292	0.286	2.1	90	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.551	0.517	6.2	84	0.00
10	T	Methyl Iodide	0.738	0.712	3.5	83	0.00
11	T	Tert butyl alcohol	0.044	0.038	13.6	101	0.00
12	CM	1,1-Dichloroethene	0.545	0.514	5.7#	84	0.00
13	T	Acrolein	0.036	0.038	-5.6	101	0.00
14	T	Allyl chloride	1.055	1.011	4.2	103	0.00
15	T	Acrylonitrile	0.129	0.131	-1.6	102	0.00
16	T	Acetone	0.138	0.131	5.1	79	0.00
17	T	Carbon Disulfide	1.838	1.710	7.0	79	0.00
18	T	Methyl Acetate	0.321	0.324	-0.9	103	0.00
19	T	Methyl tert-butyl Ether	1.417	1.414	0.2	97	0.00
20	T	Methylene Chloride	0.583	0.564	3.3	95	0.00
21	T	trans-1,2-Dichloroethene	0.606	0.571	5.8	91	0.00
22	T	Diisopropyl ether	2.079	2.003	3.7	96	0.00
23	T	Vinyl Acetate	1.162	1.172	-0.9	98	0.00
24	P	1,1-Dichloroethane	1.173	1.118	4.7	95	0.00
25	T	2-Butanone	0.177	0.185	-4.5	99	0.00
26	T	2,2-Dichloropropane	0.970	0.942	2.9	95	0.00
27	T	cis-1,2-Dichloroethene	0.667	0.666	0.1	93	0.00
28	T	Bromochloromethane	0.494	0.474	4.0	90	0.00
29	T	Tetrahydrofuran	0.106	0.114	-7.5	103	0.00
30	C	Chloroform	1.133	1.093	3.5#	85	0.00
31	T	Cyclohexane	1.071	1.026	4.2	95	0.00
32	T	1,1,1-Trichloroethane	0.995	1.004	-0.9	97	0.00
33	S	1,2-Dichloroethane-d4	0.574	0.506	11.8	76	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	87	0.00
35	S	Dibromofluoromethane	0.321	0.267	16.8	72	0.00
36	T	1,1-Dichloropropene	0.490	0.489	0.2	93	0.00
37	T	Ethyl Acetate	0.224	0.245	-9.4	100	0.00
38	T	Carbon Tetrachloride	0.511	0.535	-4.7	97	0.00
39	T	Methylcyclohexane	0.613	0.629	-2.6	94	0.00
40	TM	Benzene	1.435	1.459	-1.7	94	0.00
41	T	Methacrylonitrile	0.128	0.142	-10.9	105	0.00
42	TM	1,2-Dichloroethane	0.387	0.409	-5.7	97	0.00
43	T	Isopropyl Acetate	0.436	0.486	-11.5	100	0.00
44	TM	Trichloroethene	0.340	0.341	-0.3	92	0.00
45	C	1,2-Dichloropropane	0.342	0.347	-1.5#	94	0.00
46	T	Dibromomethane	0.175	0.178	-1.7	90	0.00
47	T	Bromodichloromethane	0.484	0.495	-2.3	87	0.00
48	T	Methyl methacrylate	0.209	0.232	-11.0	100	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY111924

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 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	0.002	0.002	0.0	92	0.00
50	S	Toluene-d8	1.263	1.066	15.6	66	0.00
51	T	4-Methyl-2-Pentanone	0.221	0.243	-10.0	86	0.00
52	CM	Toluene	0.877	0.897	-2.3#	91	0.00
53	T	t-1,3-Dichloropropene	0.458	0.473	-3.3	92	0.00
54	T	cis-1,3-Dichloropropene	0.524	0.555	-5.9	95	0.00
55	T	1,1,2-Trichloroethane	0.233	0.235	-0.9	93	0.00
56	T	Ethyl methacrylate	0.350	0.375	-7.1	92	0.00
57	T	1,3-Dichloropropane	0.419	0.437	-4.3	91	0.00
58	T	2-Chloroethyl Vinyl ether	0.166	0.165	0.6	92	0.00
59	T	2-Hexanone	0.157	0.172	-9.6	87	0.00
60	T	Dibromochloromethane	0.300	0.313	-4.3	89	0.00
61	T	1,2-Dibromoethane	0.216	0.217	-0.5	87	0.00
62	S	4-Bromofluorobenzene	0.406	0.357	12.1	72	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
64	T	Tetrachloroethene	0.360	0.355	1.4	92	0.00
65	PM	Chlorobenzene	1.115	1.094	1.9	82	0.00
66	T	1,1,1,2-Tetrachloroethane	0.372	0.374	-0.5	87	0.00
67	C	Ethyl Benzene	2.057	2.051	0.3#	86	0.00
68	T	m/p-Xylenes	0.741	0.751	-1.3	91	0.00
69	T	o-Xylene	0.703	0.716	-1.8	92	0.00
70	T	Styrene	1.167	1.198	-2.7	91	0.00
71	P	Bromoform	0.194	0.205	-5.7	93	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
73	T	Isopropylbenzene	4.236	4.188	1.1	92	0.00
74	T	N-amyl acetate	1.024	1.122	-9.6	97	0.00
75	P	1,1,2,2-Tetrachloroethane	0.685	0.689	-0.6	90	0.00
76	T	1,2,3-Trichloropropane	0.471	0.505	-7.2	93	0.00
77	T	Bromobenzene	0.887	0.880	0.8	90	0.00
78	T	n-propylbenzene	5.083	5.071	0.2	92	0.00
79	T	2-Chlorotoluene	2.923	2.879	1.5	94	0.00
80	T	1,3,5-Trimethylbenzene	3.423	3.382	1.2	94	0.00
81	T	trans-1,4-Dichloro-2-butene	0.241	0.247	-2.5	91	0.00
82	T	4-Chlorotoluene	3.016	2.963	1.8	95	0.00
83	T	tert-Butylbenzene	3.021	3.066	-1.5	94	0.00
84	T	1,2,4-Trimethylbenzene	3.394	3.364	0.9	94	0.00
85	T	sec-Butylbenzene	4.762	4.388	7.9	82	0.00
86	T	p-Isopropyltoluene	3.682	3.648	0.9	90	0.00
87	T	1,3-Dichlorobenzene	1.794	1.712	4.6	88	0.00
88	T	1,4-Dichlorobenzene	1.714	1.690	1.4	92	0.00
89	T	n-Butylbenzene	3.526	3.515	0.3	91	0.00
90	T	Hexachloroethane	0.711	0.687	3.4	84	0.00
91	T	1,2-Dichlorobenzene	1.495	1.500	-0.3	92	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.112	0.111	0.9	88	0.00
93	T	1,2,4-Trichlorobenzene	0.904	0.940	-4.0	100	0.00
94	T	Hexachlorobutadiene	0.552	0.584	-5.8	102	0.00
95	T	Naphthalene	1.557	1.773	-13.9	103	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY111924

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.773	0.795	-2.8	101	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_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY111924

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 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	96	0.00
2	T	Dichlorodifluoromethane	50.000	52.365	-4.7	108	0.00
3	P	Chloromethane	50.000	44.505	11.0	81	0.00
4	C	Vinyl Chloride	50.000	42.368	15.3#	87	0.00
5	T	Bromomethane	50.000	47.284	5.4	96	0.00
6	T	Chloroethane	50.000	44.715	10.6	90	0.00
7	T	Trichlorofluoromethane	50.000	49.372	1.3	94	0.00
8	T	Diethyl Ether	50.000	48.920	2.2	90	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	46.944	6.1	84	0.00
10	T	Methyl Iodide	50.000	48.226	3.5	83	0.00
11	T	Tert butyl alcohol	250.000	224.231	10.3	101	0.00
12	CM	1,1-Dichloroethene	50.000	47.078	5.8#	84	0.00
13	T	Acrolein	250.000	267.071	-6.8	101	0.00
14	T	Allyl chloride	50.000	47.933	4.1	103	0.00
15	T	Acrylonitrile	250.000	254.341	-1.7	102	0.00
16	T	Acetone	250.000	237.630	4.9	79	0.00
17	T	Carbon Disulfide	50.000	46.520	7.0	79	0.00
18	T	Methyl Acetate	50.000	50.427	-0.9	103	0.00
19	T	Methyl tert-butyl Ether	50.000	49.895	0.2	97	0.00
20	T	Methylene Chloride	50.000	48.374	3.3	95	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.091	5.8	91	0.00
22	T	Diisopropyl ether	50.000	48.173	3.7	96	0.00
23	T	Vinyl Acetate	250.000	252.147	-0.9	98	0.00
24	P	1,1-Dichloroethane	50.000	47.648	4.7	95	0.00
25	T	2-Butanone	250.000	260.742	-4.3	99	0.00
26	T	2,2-Dichloropropane	50.000	48.584	2.8	95	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.900	0.2	93	0.00
28	T	Bromochloromethane	50.000	48.005	4.0	90	0.00
29	T	Tetrahydrofuran	250.000	269.331	-7.7	103	0.00
30	C	Chloroform	50.000	48.223	3.6#	85	0.00
31	T	Cyclohexane	50.000	47.890	4.2	95	0.00
32	T	1,1,1-Trichloroethane	50.000	50.447	-0.9	97	0.00
33	S	1,2-Dichloroethane-d4	50.000	44.029	11.9	76	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	87	0.00
35	S	Dibromofluoromethane	50.000	41.639	16.7	72	0.00
36	T	1,1-Dichloropropene	50.000	49.880	0.2	93	0.00
37	T	Ethyl Acetate	50.000	54.618	-9.2	100	0.00
38	T	Carbon Tetrachloride	50.000	52.317	-4.6	97	0.00
39	T	Methylcyclohexane	50.000	51.325	-2.7	94	0.00
40	TM	Benzene	50.000	50.820	-1.6	94	0.00
41	T	Methacrylonitrile	50.000	55.717	-11.4	105	0.00
42	TM	1,2-Dichloroethane	50.000	52.755	-5.5	97	0.00
43	T	Isopropyl Acetate	50.000	55.687	-11.4	100	0.00
44	TM	Trichloroethene	50.000	50.110	-0.2	92	0.00
45	C	1,2-Dichloropropane	50.000	50.680	-1.4#	94	0.00
46	T	Dibromomethane	50.000	50.618	-1.2	90	0.00
47	T	Bromodichloromethane	50.000	51.051	-2.1	87	0.00
48	T	Methyl methacrylate	50.000	55.637	-11.3	100	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY111924

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 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	1029.795	-3.0	92	0.00
50	S	Toluene-d8	50.000	42.207	15.6	66	0.00
51	T	4-Methyl-2-Pentanone	250.000	274.160	-9.7	86	0.00
52	CM	Toluene	50.000	51.107	-2.2#	91	0.00
53	T	t-1,3-Dichloropropene	50.000	51.655	-3.3	92	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.893	-5.8	95	0.00
55	T	1,1,2-Trichloroethane	50.000	50.472	-0.9	93	0.00
56	T	Ethyl methacrylate	50.000	53.587	-7.2	92	0.00
57	T	1,3-Dichloropropane	50.000	52.199	-4.4	91	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	248.935	0.4	92	0.00
59	T	2-Hexanone	250.000	274.534	-9.8	87	0.00
60	T	Dibromochloromethane	50.000	52.124	-4.2	89	0.00
61	T	1,2-Dibromoethane	50.000	50.344	-0.7	87	0.00
62	S	4-Bromofluorobenzene	50.000	43.984	12.0	72	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	86	0.00
64	T	Tetrachloroethene	50.000	49.247	1.5	92	0.00
65	PM	Chlorobenzene	50.000	49.054	1.9	82	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.168	-0.3	87	0.00
67	C	Ethyl Benzene	50.000	49.867	0.3#	86	0.00
68	T	m/p-Xylenes	100.000	101.387	-1.4	91	0.00
69	T	o-Xylene	50.000	50.951	-1.9	92	0.00
70	T	Styrene	50.000	51.321	-2.6	91	0.00
71	P	Bromoform	50.000	52.752	-5.5	93	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	95	0.00
73	T	Isopropylbenzene	50.000	49.433	1.1	92	0.00
74	T	N-amyl acetate	50.000	54.821	-9.6	97	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.321	-0.6	90	0.00
76	T	1,2,3-Trichloropropane	50.000	53.595	-7.2	93	0.00
77	T	Bromobenzene	50.000	49.588	0.8	90	0.00
78	T	n-propylbenzene	50.000	49.879	0.2	92	0.00
79	T	2-Chlorotoluene	50.000	49.257	1.5	94	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.396	1.2	94	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	51.391	-2.8	91	0.00
82	T	4-Chlorotoluene	50.000	49.114	1.8	95	0.00
83	T	tert-Butylbenzene	50.000	50.744	-1.5	94	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.562	0.9	94	0.00
85	T	sec-Butylbenzene	50.000	46.067	7.9	82	0.00
86	T	p-Isopropyltoluene	50.000	49.532	0.9	90	0.00
87	T	1,3-Dichlorobenzene	50.000	47.709	4.6	88	0.00
88	T	1,4-Dichlorobenzene	50.000	49.275	1.5	92	0.00
89	T	n-Butylbenzene	50.000	49.838	0.3	91	0.00
90	T	Hexachloroethane	50.000	48.355	3.3	84	0.00
91	T	1,2-Dichlorobenzene	50.000	50.169	-0.3	92	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.354	1.3	88	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.001	-4.0	100	0.00
94	T	Hexachlorobutadiene	50.000	52.929	-5.9	102	0.00
95	T	Naphthalene	50.000	56.950	-13.9	103	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On : 19 Nov 2024 18:52
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY111924

Quant Time: Nov 20 04:42:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:33:54 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.439	-2.9	101	0.00

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

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: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG No.: P4960

Instrument ID: MSVOA_X Calibration Date/Time: 11/27/2024 08:46

Lab File ID: VX044024.D Init. Calib. Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:47 12:03

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl tert-butyl Ether	2.092	1.967		-5.97	20
Benzene	1.387	1.345		-3.03	20
Toluene	0.830	0.830		0	20
Ethyl Benzene	1.861	1.877		0.86	20
m/p-Xylenes	0.694	0.703		1.3	20
o-Xylene	0.678	0.683		0.74	20
Isopropylbenzene	3.843	3.898		1.43	20
n-propylbenzene	4.293	4.376		1.93	20
1,3,5-Trimethylbenzene	3.162	3.201		1.23	20
tert-Butylbenzene	3.134	3.187		1.69	20
1,2,4-Trimethylbenzene	3.148	3.189		1.3	20
sec-Butylbenzene	3.840	3.885		1.17	20
p-Isopropyltoluene	3.119	3.286		5.35	20
n-Butylbenzene	2.750	2.884		4.87	20
Naphthalene	3.576	3.607		0.87	20
1,2-Dichloroethane-d4	0.858	0.810		-5.59	20
Dibromofluoromethane	0.357	0.370		3.64	20
Toluene-d8	1.232	1.254		1.79	20
4-Bromofluorobenzene	0.419	0.419		0	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044024.D
Acq On : 27 Nov 2024 08:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 28 00:38:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/02/2024
Supervised By :Mahesh Dadoda 12/02/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	130547	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	218884	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	184783	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	86408	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	105740	47.224	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 94.440%			
35) Dibromofluoromethane	5.373	113	81072	51.835	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.680%			
50) Toluene-d8	8.641	98	274377	50.892	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.780%			
62) 4-Bromofluorobenzene	11.079	95	91711	49.983	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.960%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	75311	45.538	ug/l	97
3) Chloromethane	1.294	50	80534	46.275	ug/l	100
4) Vinyl Chloride	1.374	62	82993	44.835	ug/l	99
5) Bromomethane	1.599	94	56349	49.483	ug/l	97
6) Chloroethane	1.666	64	55879	49.541	ug/l	99
7) Trichlorofluoromethane	1.874	101	146941	44.400	ug/l	96
8) Diethyl Ether	2.130	74	54109	44.858	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	74240	47.028	ug/l	99
10) Methyl Iodide	2.440	142	92802	47.069	ug/l	98
11) Tert butyl alcohol	2.995	59	81551	226.911	ug/l	99
12) 1,1-Dichloroethene	2.312	96	66795	44.403	ug/l	95
13) Acrolein	2.233	56	77197	203.784	ug/l	100
14) Allyl chloride	2.654	41	114657	46.647	ug/l	99
15) Acrylonitrile	3.056	53	208420	237.970	ug/l	98
16) Acetone	2.380	43	254666	247.633	ug/l	100
17) Carbon Disulfide	2.501	76	126471	40.758	ug/l	99
18) Methyl Acetate	2.697	43	111020	46.357	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	256756	47.008	ug/l	97
20) Methylene Chloride	2.782	84	78624	45.052	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	69531	44.770	ug/l	98
22) Diisopropyl ether	3.751	45	242068	46.056	ug/l	88
23) Vinyl Acetate	3.715	43	1076290	239.380	ug/l	99
24) 1,1-Dichloroethane	3.599	63	140775	46.428	ug/l	98
25) 2-Butanone	4.550	43	319354	240.666	ug/l	99
26) 2,2-Dichloropropane	4.465	77	127370	46.513	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	87873	45.773	ug/l	99
28) Bromochloromethane	4.885	49	64047	47.988	ug/l	97
29) Tetrahydrofuran	4.995	42	186406	229.138	ug/l	99
30) Chloroform	5.080	83	152301	46.702	ug/l	97
31) Cyclohexane	5.458	56	110939	44.455	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	134412	47.795	ug/l	99
36) 1,1-Dichloropropene	5.678	75	93645	48.048	ug/l	99
37) Ethyl Acetate	4.708	43	114449	47.306	ug/l	99
38) Carbon Tetrachloride	5.659	117	112105	51.191	ug/l	97
39) Methylcyclohexane	7.366	83	122366	48.328	ug/l	96
40) Benzene	6.025	78	294332	48.482	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044024.D
Acq On : 27 Nov 2024 08:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 28 00:38:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/02/2024
Supervised By :Mahesh Dadoda 12/02/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	62598	50.554	ug/l		95
42) 1,2-Dichloroethane	6.074	62	117341	48.126	ug/l		98
43) Isopropyl Acetate	6.330	43	188495	48.957	ug/l		100
44) Trichloroethene	7.116	130	73684	42.874	ug/l		99
45) 1,2-Dichloropropane	7.421	63	75438	50.735	ug/l		97
46) Dibromomethane	7.574	93	59934	50.955	ug/l		99
47) Bromodichloromethane	7.811	83	110104	52.194	ug/l		100
48) Methyl methacrylate	7.683	41	89682	48.543	ug/l		98
49) 1,4-Dioxane	7.665	88	31598	960.155	ug/l		87
51) 4-Methyl-2-Pentanone	8.567	43	581863	247.644	ug/l		99
52) Toluene	8.714	92	181747	50.018	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	109813	51.048	ug/l		99
54) cis-1,3-Dichloropropene	8.360	75	118961	50.445	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	73258	48.840	ug/l		96
56) Ethyl methacrylate	9.116	69	116068	49.680	ug/l		99
57) 1,3-Dichloropropane	9.305	76	126674	50.133	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.232	63	300041	234.146	ug/l		100
59) 2-Hexanone	9.427	43	450164	254.904	ug/l		100
60) Dibromochloromethane	9.518	129	78916	52.438	ug/l		100
61) 1,2-Dibromoethane	9.604	107	76467	50.417	ug/l		99
64) Tetrachloroethene	9.269	164	62443	51.249	ug/l		97
65) Chlorobenzene	10.073	112	198983	49.030	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	69620	52.895	ug/l		99
67) Ethyl Benzene	10.189	91	346780	50.427	ug/l		99
68) m/p-Xylenes	10.299	106	259750	101.285	ug/l		99
69) o-Xylene	10.640	106	126134	50.375	ug/l		99
70) Styrene	10.652	104	210843	50.911	ug/l		99
71) Bromoform	10.799	173	47573	47.741	ug/l	#	99
73) Isopropylbenzene	10.957	105	336827	50.711	ug/l		99
74) N-amyl acetate	10.841	43	150540	48.925	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	112445	49.441	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	93407m	49.294	ug/l		
77) Bromobenzene	11.195	156	78818	49.744	ug/l		98
78) n-propylbenzene	11.299	91	378104	50.969	ug/l		98
79) 2-Chlorotoluene	11.360	91	227955	48.595	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	276587	50.615	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	33226	47.847	ug/l		98
82) 4-Chlorotoluene	11.451	91	263736	49.800	ug/l		99
83) tert-Butylbenzene	11.713	119	275397	50.846	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	275517	50.643	ug/l		100
85) sec-Butylbenzene	11.890	105	335675	50.583	ug/l		99
86) p-Isopropyltoluene	12.006	119	283919	52.671	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	143580	49.754	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	142164	48.319	ug/l		98
89) n-Butylbenzene	12.329	91	249177	52.430	ug/l		100
90) Hexachloroethane	12.536	117	46037	50.225	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	144679	49.679	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	22768	49.961	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	85047	49.533	ug/l		99
94) Hexachlorobutadiene	13.725	225	33606	49.524	ug/l		97
95) Naphthalene	13.774	128	311649	50.423	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	88547	50.952	ug/l		95

Sample Results: **VX044024.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044024.D
Acq On : 27 Nov 2024 08:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/02/2024
Supervised By :Mahesh Dadoda 12/02/2024

Quant Time: Nov 28 00:38:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

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

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

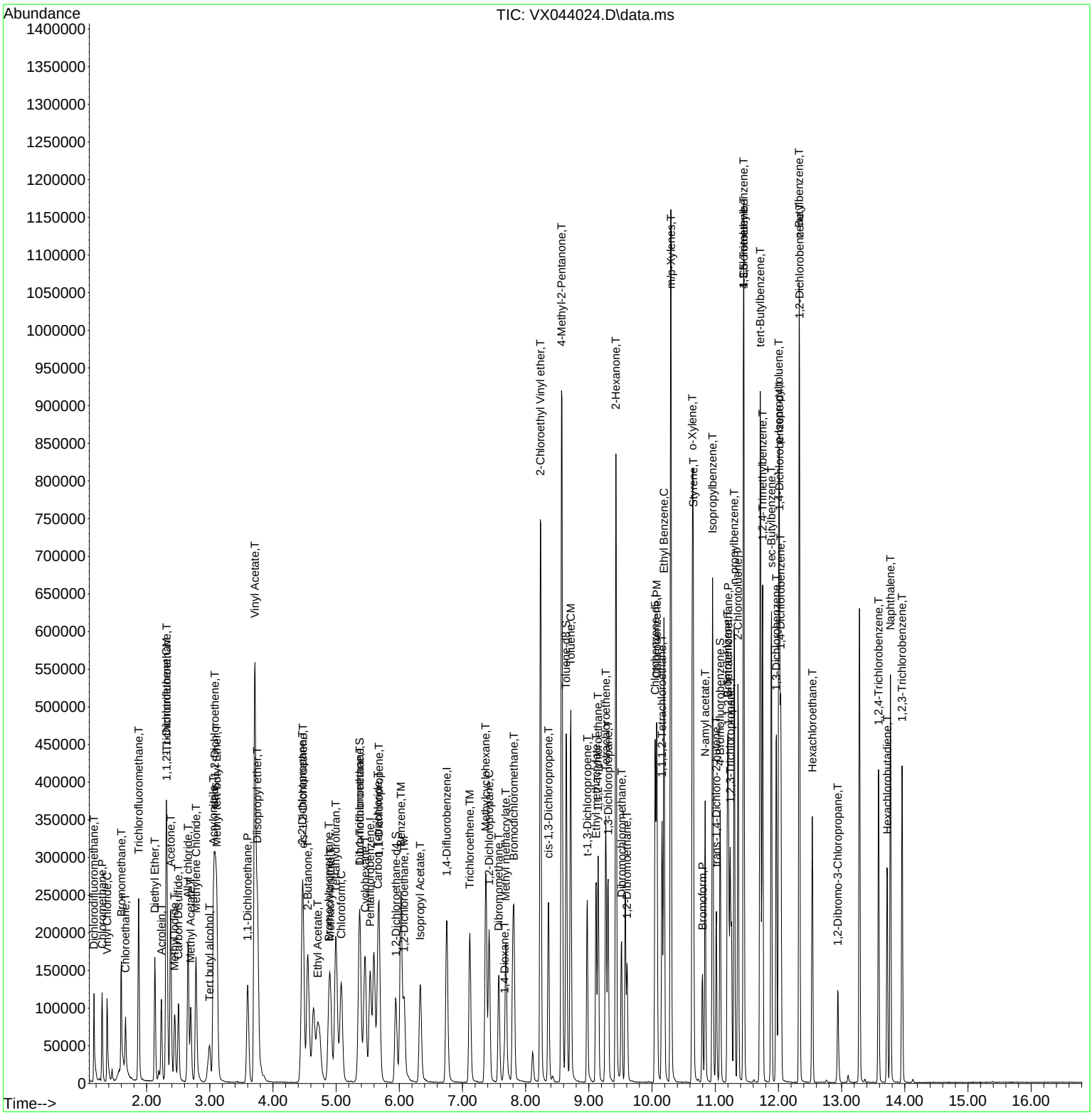
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044024.D
Acq On : 27 Nov 2024 08:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 28 00:38:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/02/2024
Supervised By :Mahesh Dadoda 12/02/2024



Sample Results: **VX044024.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044024.D
Acq On : 27 Nov 2024 08:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Nov 28 00:38:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	94	0.00
2	T	Dichlorodifluoromethane	0.633	0.577	8.8	79	0.00
3	P	Chloromethane	0.667	0.617	7.5	83	0.00
4	C	Vinyl Chloride	0.709	0.636	10.3#	79	0.00
5	T	Bromomethane	0.436	0.432	0.9	91	0.00
6	T	Chloroethane	0.432	0.428	0.9	88	0.00
7	T	Trichlorofluoromethane	1.268	1.126	11.2	78	0.00
8	T	Diethyl Ether	0.462	0.414	10.4	82	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.605	0.569	6.0	81	0.00
10	T	Methyl Iodide	0.755	0.711	5.8	83	0.00
11	T	Tert butyl alcohol	0.138	0.125	9.4	81	0.00
12	CM	1,1-Dichloroethene	0.576	0.512	11.1#	80	0.00
13	T	Acrolein	0.145	0.118	18.6	77	0.00
14	T	Allyl chloride	0.941	0.878	6.7	79	0.00
15	T	Acrylonitrile	0.335	0.319	4.8	81	0.00
16	T	Acetone	0.394	0.390	1.0	86	0.00
17	T	Carbon Disulfide	1.188	0.969	18.4	71	0.00
18	T	Methyl Acetate	0.917	0.850	7.3	81	0.00
19	T	Methyl tert-butyl Ether	2.092	1.967	6.0	82	0.00
20	T	Methylene Chloride	0.668	0.602	9.9	85	0.00
21	T	trans-1,2-Dichloroethene	0.595	0.533	10.4	79	0.00
22	T	Diisopropyl ether	2.013	1.854	7.9	81	0.00
23	T	Vinyl Acetate	1.722	1.649	4.2	80	0.00
24	P	1,1-Dichloroethane	1.161	1.078	7.1	81	0.00
25	T	2-Butanone	0.508	0.489	3.7	81	0.00
26	T	2,2-Dichloropropane	1.049	0.976	7.0	81	0.00
27	T	cis-1,2-Dichloroethene	0.735	0.673	8.4	80	0.00
28	T	Bromochloromethane	0.511	0.491	3.9	103	0.00
29	T	Tetrahydrofuran	0.312	0.286	8.3	80	0.00
30	C	Chloroform	1.249	1.167	6.6#	83	0.00
31	T	Cyclohexane	0.956	0.850	11.1	77	0.00
32	T	1,1,1-Trichloroethane	1.077	1.030	4.4	82	0.00
33	S	1,2-Dichloroethane-d4	0.858	0.810	5.6	102	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
35	S	Dibromofluoromethane	0.357	0.370	-3.6	103	0.00
36	T	1,1-Dichloropropene	0.445	0.428	3.8	79	0.00
37	T	Ethyl Acetate	0.553	0.523	5.4	78	0.00
38	T	Carbon Tetrachloride	0.500	0.512	-2.4	83	0.00
39	T	Methylcyclohexane	0.578	0.559	3.3	77	0.00
40	TM	Benzene	1.387	1.345	3.0	82	0.00
41	T	Methacrylonitrile	0.283	0.286	-1.1	79	0.00
42	TM	1,2-Dichloroethane	0.557	0.536	3.8	81	0.00
43	T	Isopropyl Acetate	0.880	0.861	2.2	80	0.00
44	TM	Trichloroethene	0.393	0.337	14.2	82	0.00
45	C	1,2-Dichloropropane	0.340	0.345	-1.5#	84	0.00
46	T	Dibromomethane	0.269	0.274	-1.9	85	0.00
47	T	Bromodichloromethane	0.482	0.503	-4.4	84	0.00
48	T	Methyl methacrylate	0.422	0.410	2.8	80	0.00

Sample Results: **VX044024.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044024.D
Acq On : 27 Nov 2024 08:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Nov 28 00:38:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	0.007	12.5	80	0.00
50	S	Toluene-d8	1.232	1.254	-1.8	103	0.00
51	T	4-Methyl-2-Pentanone	0.537	0.532	0.9	79	0.00
52	CM	Toluene	0.830	0.830	0.0	82	0.00
53	T	t-1,3-Dichloropropene	0.491	0.502	-2.2	80	0.00
54	T	cis-1,3-Dichloropropene	0.539	0.543	-0.7	81	0.00
55	T	1,1,2-Trichloroethane	0.343	0.335	2.3	82	0.00
56	T	Ethyl methacrylate	0.534	0.530	0.7	78	0.00
57	T	1,3-Dichloropropane	0.577	0.579	-0.3	84	0.00
58	T	2-Chloroethyl Vinyl ether	0.273	0.274	-0.4	81	0.00
59	T	2-Hexanone	0.403	0.411	-2.0	79	0.00
60	T	Dibromochloromethane	0.344	0.361	-4.9	83	0.00
61	T	1,2-Dibromoethane	0.346	0.349	-0.9	82	0.00
62	S	4-Bromofluorobenzene	0.419	0.419	0.0	98	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00
64	T	Tetrachloroethene	0.330	0.338	-2.4	84	0.00
65	PM	Chlorobenzene	1.098	1.077	1.9	82	0.00
66	T	1,1,1,2-Tetrachloroethane	0.356	0.377	-5.9	83	0.00
67	C	Ethyl Benzene	1.861	1.877	-0.9#	81	0.00
68	T	m/p-Xylenes	0.694	0.703	-1.3	80	0.00
69	T	o-Xylene	0.678	0.683	-0.7	79	0.00
70	T	Styrene	1.121	1.141	-1.8	79	0.00
71	P	Bromoform	0.240	0.257	-7.1	79	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00
73	T	Isopropylbenzene	3.843	3.898	-1.4	82	0.00
74	T	N-amyl acetate	1.780	1.742	2.1	75	0.00
75	P	1,1,2,2-Tetrachloroethane	1.316	1.301	1.1	80	0.00
76	T	1,2,3-Trichloropropane	1.096	1.081	1.4	79	0.00
77	T	Bromobenzene	0.917	0.912	0.5	81	0.00
78	T	n-propylbenzene	4.293	4.376	-1.9	80	0.00
79	T	2-Chlorotoluene	2.714	2.638	2.8	80	0.00
80	T	1,3,5-Trimethylbenzene	3.162	3.201	-1.2	80	0.00
81	T	trans-1,4-Dichloro-2-butene	0.402	0.385	4.2	75	0.00
82	T	4-Chlorotoluene	3.064	3.052	0.4	79	0.00
83	T	tert-Butylbenzene	3.134	3.187	-1.7	80	0.00
84	T	1,2,4-Trimethylbenzene	3.148	3.189	-1.3	80	0.00
85	T	sec-Butylbenzene	3.840	3.885	-1.2	79	0.00
86	T	p-Isopropyltoluene	3.119	3.286	-5.4	80	0.00
87	T	1,3-Dichlorobenzene	1.670	1.662	0.5	81	0.00
88	T	1,4-Dichlorobenzene	1.702	1.645	3.3	80	0.00
89	T	n-Butylbenzene	2.750	2.884	-4.9	78	0.00
90	T	Hexachloroethane	0.530	0.533	-0.6	78	0.00
91	T	1,2-Dichlorobenzene	1.685	1.674	0.7	82	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.264	0.263	0.4	80	0.00
93	T	1,2,4-Trichlorobenzene	0.994	0.984	1.0	78	0.00
94	T	Hexachlorobutadiene	0.393	0.389	1.0	81	0.00
95	T	Naphthalene	3.576	3.607	-0.9	78	0.00

Sample Results: **VX044024.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044024.D
Acq On : 27 Nov 2024 08:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Nov 28 00:38:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	1.006	1.025	-1.9	79	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 5

Sample Results: **VX044024.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044024.D
Acq On : 27 Nov 2024 08:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Nov 28 00:38:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	94	0.00
2	T	Dichlorodifluoromethane	50.000	45.538	8.9	79	0.00
3	P	Chloromethane	50.000	46.275	7.5	83	0.00
4	C	Vinyl Chloride	50.000	44.835	10.3#	79	0.00
5	T	Bromomethane	50.000	49.483	1.0	91	0.00
6	T	Chloroethane	50.000	49.541	0.9	88	0.00
7	T	Trichlorofluoromethane	50.000	44.400	11.2	78	0.00
8	T	Diethyl Ether	50.000	44.858	10.3	82	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.028	5.9	81	0.00
10	T	Methyl Iodide	50.000	47.069	5.9	83	0.00
11	T	Tert butyl alcohol	250.000	226.911	9.2	81	0.00
12	CM	1,1-Dichloroethene	50.000	44.403	11.2#	80	0.00
13	T	Acrolein	250.000	203.784	18.5	77	0.00
14	T	Allyl chloride	50.000	46.647	6.7	79	0.00
15	T	Acrylonitrile	250.000	237.970	4.8	81	0.00
16	T	Acetone	250.000	247.633	0.9	86	0.00
17	T	Carbon Disulfide	50.000	40.758	18.5	71	0.00
18	T	Methyl Acetate	50.000	46.357	7.3	81	0.00
19	T	Methyl tert-butyl Ether	50.000	47.008	6.0	82	0.00
20	T	Methylene Chloride	50.000	45.052	9.9	85	0.00
21	T	trans-1,2-Dichloroethene	50.000	44.770	10.5	79	0.00
22	T	Diisopropyl ether	50.000	46.056	7.9	81	0.00
23	T	Vinyl Acetate	250.000	239.380	4.2	80	0.00
24	P	1,1-Dichloroethane	50.000	46.428	7.1	81	0.00
25	T	2-Butanone	250.000	240.666	3.7	81	0.00
26	T	2,2-Dichloropropane	50.000	46.513	7.0	81	0.00
27	T	cis-1,2-Dichloroethene	50.000	45.773	8.5	80	0.00
28	T	Bromochloromethane	50.000	47.988	4.0	103	0.00
29	T	Tetrahydrofuran	250.000	229.138	8.3	80	0.00
30	C	Chloroform	50.000	46.702	6.6#	83	0.00
31	T	Cyclohexane	50.000	44.455	11.1	77	0.00
32	T	1,1,1-Trichloroethane	50.000	47.795	4.4	82	0.00
33	S	1,2-Dichloroethane-d4	50.000	47.224	5.6	102	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	91	0.00
35	S	Dibromofluoromethane	50.000	51.835	-3.7	103	0.00
36	T	1,1-Dichloropropene	50.000	48.048	3.9	79	0.00
37	T	Ethyl Acetate	50.000	47.306	5.4	78	0.00
38	T	Carbon Tetrachloride	50.000	51.191	-2.4	83	0.00
39	T	Methylcyclohexane	50.000	48.328	3.3	77	0.00
40	TM	Benzene	50.000	48.482	3.0	82	0.00
41	T	Methacrylonitrile	50.000	50.554	-1.1	79	0.00
42	TM	1,2-Dichloroethane	50.000	48.126	3.7	81	0.00
43	T	Isopropyl Acetate	50.000	48.957	2.1	80	0.00
44	TM	Trichloroethene	50.000	42.874	14.3	82	0.00
45	C	1,2-Dichloropropane	50.000	50.735	-1.5#	84	0.00
46	T	Dibromomethane	50.000	50.955	-1.9	85	0.00
47	T	Bromodichloromethane	50.000	52.194	-4.4	84	0.00
48	T	Methyl methacrylate	50.000	48.543	2.9	80	0.00

Sample Results: **VX044024.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044024.D
Acq On : 27 Nov 2024 08:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Nov 28 00:38:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	960.155	4.0	80	0.00
50	S	Toluene-d8	50.000	50.892	-1.8	103	0.00
51	T	4-Methyl-2-Pentanone	250.000	247.644	0.9	79	0.00
52	CM	Toluene	50.000	50.018	-0.0#	82	0.00
53	T	t-1,3-Dichloropropene	50.000	51.048	-2.1	80	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.445	-0.9	81	0.00
55	T	1,1,2-Trichloroethane	50.000	48.840	2.3	82	0.00
56	T	Ethyl methacrylate	50.000	49.680	0.6	78	0.00
57	T	1,3-Dichloropropane	50.000	50.133	-0.3	84	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	234.146	6.3	81	0.00
59	T	2-Hexanone	250.000	254.904	-2.0	79	0.00
60	T	Dibromochloromethane	50.000	52.438	-4.9	83	0.00
61	T	1,2-Dibromoethane	50.000	50.417	-0.8	82	0.00
62	S	4-Bromofluorobenzene	50.000	49.983	0.0	98	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	87	0.00
64	T	Tetrachloroethene	50.000	51.249	-2.5	84	0.00
65	PM	Chlorobenzene	50.000	49.030	1.9	82	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.895	-5.8	83	0.00
67	C	Ethyl Benzene	50.000	50.427	-0.9#	81	0.00
68	T	m/p-Xylenes	100.000	101.285	-1.3	80	0.00
69	T	o-Xylene	50.000	50.375	-0.8	79	0.00
70	T	Styrene	50.000	50.911	-1.8	79	0.00
71	P	Bromoform	50.000	47.741	4.5	79	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	86	0.00
73	T	Isopropylbenzene	50.000	50.711	-1.4	82	0.00
74	T	N-amyl acetate	50.000	48.925	2.2	75	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.441	1.1	80	0.00
76	T	1,2,3-Trichloropropane	50.000	49.294	1.4	79	0.00
77	T	Bromobenzene	50.000	49.744	0.5	81	0.00
78	T	n-propylbenzene	50.000	50.969	-1.9	80	0.00
79	T	2-Chlorotoluene	50.000	48.595	2.8	80	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.615	-1.2	80	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	47.847	4.3	75	0.00
82	T	4-Chlorotoluene	50.000	49.800	0.4	79	0.00
83	T	tert-Butylbenzene	50.000	50.846	-1.7	80	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.643	-1.3	80	0.00
85	T	sec-Butylbenzene	50.000	50.583	-1.2	79	0.00
86	T	p-Isopropyltoluene	50.000	52.671	-5.3	80	0.00
87	T	1,3-Dichlorobenzene	50.000	49.754	0.5	81	0.00
88	T	1,4-Dichlorobenzene	50.000	48.319	3.4	80	0.00
89	T	n-Butylbenzene	50.000	52.430	-4.9	78	0.00
90	T	Hexachloroethane	50.000	50.225	-0.5	78	0.00
91	T	1,2-Dichlorobenzene	50.000	49.679	0.6	82	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.961	0.1	80	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.533	0.9	78	0.00
94	T	Hexachlorobutadiene	50.000	49.524	1.0	81	0.00
95	T	Naphthalene	50.000	50.423	-0.8	78	0.00

Sample Results: **VX044024.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044024.D
Acq On : 27 Nov 2024 08:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Nov 28 00:38:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	50.952	-1.9	79	0.00

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

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: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG No.: P4960

Instrument ID: MSVOA_Y Calibration Date/Time: 11/22/2024 09:40

Lab File ID: VY020401.D Init. Calib. Date(s): 11/19/2024 11/19/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 15:49 17:42

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl tert-butyl Ether	1.417	1.349		-4.8	20
Benzene	1.435	1.495		4.18	20
Toluene	0.877	0.922		5.13	20
Ethyl Benzene	2.057	2.201		7	20
m/p-Xylenes	0.741	0.797		7.56	20
o-Xylene	0.703	0.745		5.97	20
Isopropylbenzene	4.236	4.572		7.93	20
n-propylbenzene	5.083	5.464		7.5	20
1,3,5-Trimethylbenzene	3.423	3.668		7.16	20
tert-Butylbenzene	3.021	3.248		7.51	20
1,2,4-Trimethylbenzene	3.394	3.565		5.04	20
sec-Butylbenzene	4.762	4.780		0.38	20
p-Isopropyltoluene	3.682	3.958		7.5	20
n-Butylbenzene	3.526	3.738		6.01	20
Naphthalene	1.557	1.568		0.71	20
1,2-Dichloroethane-d4	0.574	0.585		1.92	20
Dibromofluoromethane	0.321	0.339		5.61	20
Toluene-d8	1.263	1.353		7.13	20
4-Bromofluorobenzene	0.406	0.442		8.87	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: **VY020401.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020401.D
Acq On : 22 Nov 2024 09:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 22 23:55:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/25/2024
Supervised By :Semsettin Yesilyurt 11/25/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	199094	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.628	114	315114	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.426	117	255079	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.359	152	114938	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	116494	50.929	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.860%			
35) Dibromofluoromethane	7.646	113	106905	52.908	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.820%			
50) Toluene-d8	10.115	98	426296	53.558	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 107.120%			
62) 4-Bromofluorobenzene	12.414	95	139180	54.394	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery = 108.780%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	111376	57.632	ug/l	100
3) Chloromethane	2.080	50	110497	42.999	ug/l	98
4) Vinyl Chloride	2.214	62	112180	42.313	ug/l	100
5) Bromomethane	2.611	94	61402	46.373	ug/l	99
6) Chloroethane	2.751	64	66071	42.720	ug/l	99
7) Trichlorofluoromethane	3.074	101	196810	53.420	ug/l	99
8) Diethyl Ether	3.464	74	54576	46.950	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.836	101	109913	50.095	ug/l	98
10) Methyl Iodide	4.019	142	137554	46.804	ug/l	95
11) Tert butyl alcohol	4.878	59	35102	206.445	ug/l	99
12) 1,1-Dichloroethene	3.805	96	107768	49.620	ug/l	99
13) Acrolein	3.665	56	39559	279.300	ug/l	98
14) Allyl chloride	4.403	41	192511	45.838	ug/l	95
15) Acrylonitrile	5.074	53	119045	231.671	ug/l	99
16) Acetone	3.885	43	142708	260.251	ug/l	98
17) Carbon Disulfide	4.122	76	349289	47.736	ug/l	99
18) Methyl Acetate	4.397	43	56454	44.167	ug/l	99
19) Methyl tert-butyl Ether	5.134	73	268639	47.615	ug/l	97
20) Methylene Chloride	4.635	84	108761	46.837	ug/l	99
21) trans-1,2-Dichloroethene	5.134	96	116492	48.292	ug/l	96
22) Diisopropyl ether	6.037	45	365369	44.145	ug/l	98
23) Vinyl Acetate	5.976	43	1034978	223.766	ug/l	100
24) 1,1-Dichloroethane	5.933	63	216453	46.326	ug/l	100
25) 2-Butanone	6.902	43	178437	252.766	ug/l	97
26) 2,2-Dichloropropane	6.902	77	198476	51.394	ug/l	99
27) cis-1,2-Dichloroethene	6.909	96	130033	48.941	ug/l	99
28) Bromochloromethane	7.262	49	86074	43.770	ug/l	97
29) Tetrahydrofuran	7.274	42	97664	231.474	ug/l	99
30) Chloroform	7.433	83	215847	47.839	ug/l	99
31) Cyclohexane	7.713	56	202534	47.499	ug/l	98
32) 1,1,1-Trichloroethane	7.628	97	207961	52.493	ug/l	97
36) 1,1-Dichloropropene	7.847	75	165899	53.755	ug/l	100
37) Ethyl Acetate	6.994	43	70523	49.883	ug/l	99
38) Carbon Tetrachloride	7.829	117	191327	59.376	ug/l	97
39) Methylcyclohexane	9.115	83	213556	55.291	ug/l	99
40) Benzene	8.091	78	471211	52.101	ug/l	99

Sample Results: **VY020401.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020401.D
Acq On : 22 Nov 2024 09:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 22 23:55:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/25/2024
Supervised By :Semsettin Yesilyurt 11/25/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.238	41	41340	51.391 ug/l		98
42) 1,2-Dichloroethane	8.171	62	127783	52.343 ug/l		98
43) Isopropyl Acetate	8.207	43	140171	50.983 ug/l	#	87
44) Trichloroethene	8.878	130	114339	53.358 ug/l		96
45) 1,2-Dichloropropane	9.152	63	108877	50.457 ug/l		98
46) Dibromomethane	9.237	93	56398	50.993 ug/l		99
47) Bromodichloromethane	9.432	83	156354	51.211 ug/l		98
48) Methyl methacrylate	9.231	41	65774	50.039 ug/l		97
49) 1,4-Dioxane	9.237	88	11635	1022.544 ug/l		92
51) 4-Methyl-2-Pentanone	10.006	43	348385	249.694 ug/l		99
52) Toluene	10.176	92	290653	52.578 ug/l		98
53) t-1,3-Dichloropropene	10.402	75	146519	50.749 ug/l		99
54) cis-1,3-Dichloropropene	9.865	75	174944	52.933 ug/l		93
55) 1,1,2-Trichloroethane	10.579	97	71662	48.813 ug/l		99
56) Ethyl methacrylate	10.445	69	110773	50.243 ug/l		96
57) 1,3-Dichloropropane	10.725	76	131122	49.698 ug/l		99
58) 2-Chloroethyl Vinyl ether	9.719	63	266968	255.368 ug/l		99
59) 2-Hexanone	10.768	43	263747	266.955 ug/l		98
60) Dibromochloromethane	10.920	129	99205	52.426 ug/l		99
61) 1,2-Dibromoethane	11.024	107	66598	48.955 ug/l		100
64) Tetrachloroethene	10.658	164	99509	54.118 ug/l		97
65) Chlorobenzene	11.450	112	293820	51.662 ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.524	131	102611	54.008 ug/l		98
67) Ethyl Benzene	11.524	91	561497	53.514 ug/l		100
68) m/p-Xylenes	11.633	106	406534	107.567 ug/l		97
69) o-Xylene	11.963	106	189987	53.000 ug/l		96
70) Styrene	11.975	104	320963	53.891 ug/l		98
71) Bromoform	12.139	173	54500	55.040 ug/l	#	100
73) Isopropylbenzene	12.261	105	525466	53.968 ug/l		99
74) N-amyl acetate	12.078	43	117939	50.124 ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.517	83	78489	49.878 ug/l		99
76) 1,2,3-Trichloropropane	12.566	75	52372m	48.344 ug/l		
77) Bromobenzene	12.542	156	108422	53.150 ug/l		100
78) n-propylbenzene	12.603	91	628054	53.748 ug/l		99
79) 2-Chlorotoluene	12.688	91	347387	51.705 ug/l		99
80) 1,3,5-Trimethylbenzene	12.743	105	421591	53.577 ug/l		98
81) trans-1,4-Dichloro-2-b...	12.310	75	28956	52.374 ug/l		98
82) 4-Chlorotoluene	12.786	91	355075	51.209 ug/l		98
83) tert-Butylbenzene	13.005	119	373316	53.760 ug/l		98
84) 1,2,4-Trimethylbenzene	13.054	105	409729	52.520 ug/l		99
85) sec-Butylbenzene	13.182	105	549366	50.183 ug/l		100
86) p-Isopropyltoluene	13.304	119	454931	53.747 ug/l		99
87) 1,3-Dichlorobenzene	13.298	146	209104	50.696 ug/l		99
88) 1,4-Dichlorobenzene	13.377	146	203002	51.511 ug/l		99
89) n-Butylbenzene	13.627	91	429585	52.998 ug/l		99
90) Hexachloroethane	13.889	117	85761	52.496 ug/l		96
91) 1,2-Dichlorobenzene	13.670	146	177537	51.661 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.285	75	12951	50.156 ug/l		95
93) 1,2,4-Trichlorobenzene	14.932	180	103928	50.016 ug/l		99
94) Hexachlorobutadiene	15.035	225	70815	55.832 ug/l		97
95) Naphthalene	15.157	128	180259	50.372 ug/l		99
96) 1,2,3-Trichlorobenzene	15.340	180	84155	47.368 ug/l		99

Sample Results: **VY020401.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020401.D
Acq On : 22 Nov 2024 09:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 22 23:55:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/25/2024
Supervised By :Semsettin Yesilyurt 11/25/2024

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

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

Sample Results: **VY020401.D**

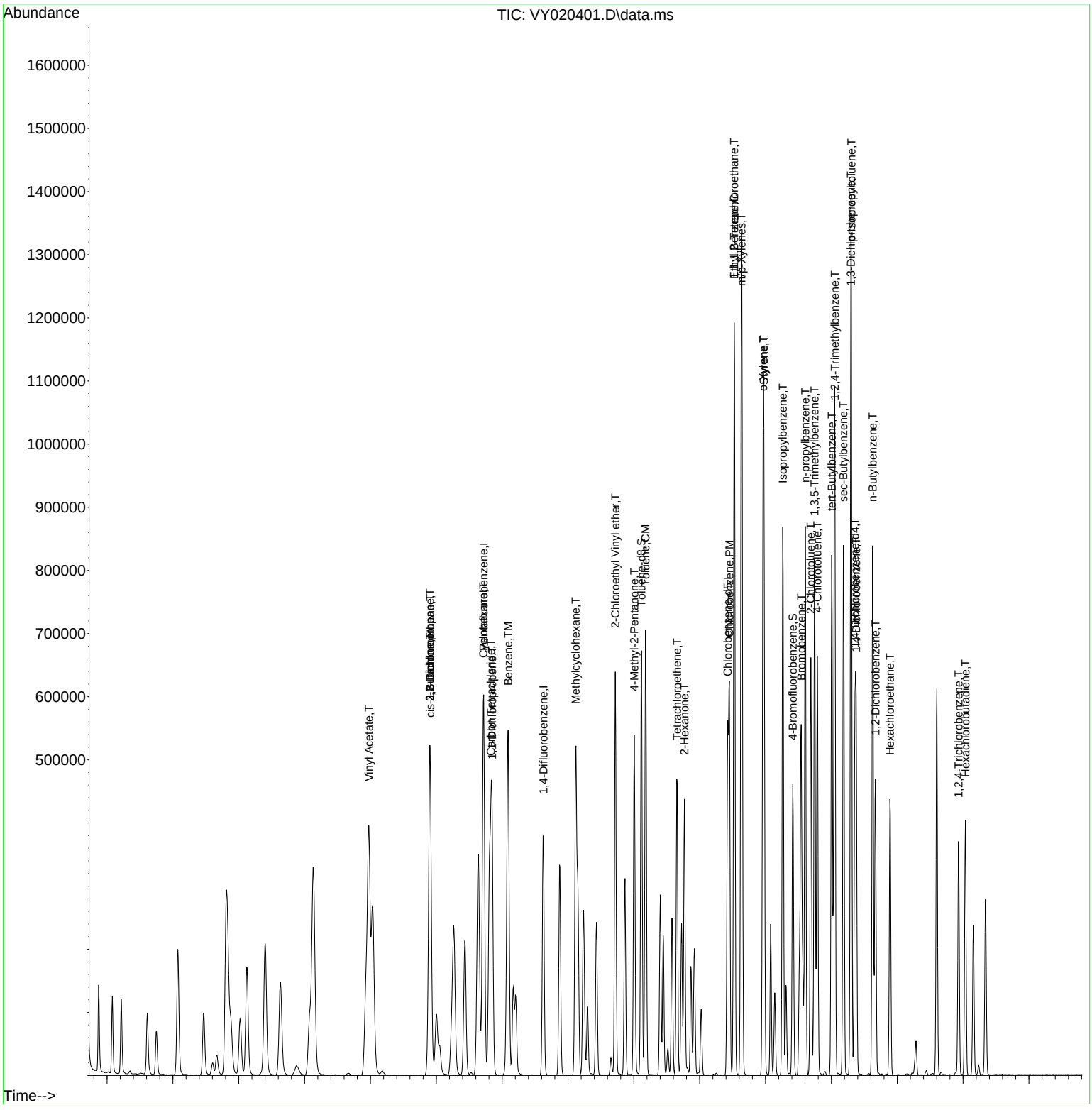
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020401.D
Acq On : 22 Nov 2024 09:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 22 23:55:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/25/2024
Supervised By :Semsettin Yesilyurt 11/25/2024



Evaluate Continuing Calibration Report

Sample Results: **VY020401.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020401.D
Acq On : 22 Nov 2024 09:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 22 23:55:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 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	88	0.00
2	T	Dichlorodifluoromethane	0.485	0.559	-15.3	108	0.00
3	P	Chloromethane	0.735	0.555	24.5	71	0.01
4	C	Vinyl Chloride	0.666	0.563	15.5#	79	0.00
5	T	Bromomethane	0.333	0.308	7.5	86	0.01
6	T	Chloroethane	0.388	0.332	14.4	79	0.01
7	T	Trichlorofluoromethane	0.925	0.989	-6.9	93	0.01
8	T	Diethyl Ether	0.292	0.274	6.2	79	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.551	0.552	-0.2	82	0.02
10	T	Methyl Iodide	0.738	0.691	6.4	73	0.01
11	T	Tert butyl alcohol	0.044	0.035	20.5	86	0.00
12	CM	1,1-Dichloroethene	0.545	0.541	0.7#	81	0.01
13	T	Acrolein	0.036	0.040	-11.1	96	0.00
14	T	Allyl chloride	1.055	0.967	8.3	90	0.01
15	T	Acrylonitrile	0.129	0.120	7.0	85	0.01
16	T	Acetone	0.138	0.143	-3.6	79	0.01
17	T	Carbon Disulfide	1.838	1.754	4.6	74	0.01
18	T	Methyl Acetate	0.321	0.284	11.5	82	0.00
19	T	Methyl tert-butyl Ether	1.417	1.349	4.8	85	0.02
20	T	Methylene Chloride	0.583	0.546	6.3	84	0.02
21	T	trans-1,2-Dichloroethene	0.606	0.585	3.5	85	0.01
22	T	Diisopropyl ether	2.079	1.835	11.7	80	0.01
23	T	Vinyl Acetate	1.162	1.040	10.5	79	0.01
24	P	1,1-Dichloroethane	1.173	1.087	7.3	84	0.01
25	T	2-Butanone	0.177	0.179	-1.1	88	0.00
26	T	2,2-Dichloropropane	0.970	0.997	-2.8	91	0.02
27	T	cis-1,2-Dichloroethene	0.667	0.653	2.1	83	0.01
28	T	Bromochloromethane	0.494	0.432	12.6	74	0.02
29	T	Tetrahydrofuran	0.106	0.098	7.5	81	0.00
30	C	Chloroform	1.133	1.084	4.3#	77	0.01
31	T	Cyclohexane	1.071	1.017	5.0	86	0.01
32	T	1,1,1-Trichloroethane	0.995	1.045	-5.0	92	0.00
33	S	1,2-Dichloroethane-d4	0.574	0.585	-1.9	81	0.01
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	75	0.01
35	S	Dibromofluoromethane	0.321	0.339	-5.6	79	0.01
36	T	1,1-Dichloropropene	0.490	0.526	-7.3	87	0.00
37	T	Ethyl Acetate	0.224	0.224	0.0	79	0.00
38	T	Carbon Tetrachloride	0.511	0.607	-18.8	95	0.00
39	T	Methylcyclohexane	0.613	0.678	-10.6	87	0.00
40	TM	Benzene	1.435	1.495	-4.2	83	0.01
41	T	Methacrylonitrile	0.128	0.131	-2.3	84	0.01
42	TM	1,2-Dichloroethane	0.387	0.406	-4.9	84	0.01
43	T	Isopropyl Acetate	0.436	0.445	-2.1	79	0.01
44	TM	Trichloroethene	0.340	0.363	-6.8	85	0.01
45	C	1,2-Dichloropropane	0.342	0.346	-1.2#	81	0.01
46	T	Dibromomethane	0.175	0.179	-2.3	78	0.00
47	T	Bromodichloromethane	0.484	0.496	-2.5	76	0.01
48	T	Methyl methacrylate	0.209	0.209	0.0	78	0.01

Sample Results: **VY020401.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020401.D
Acq On : 22 Nov 2024 09:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 22 23:55:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 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	0.002	0.002	0.0	79	0.00
50	S	Toluene-d8	1.263	1.353	-7.1	73	0.00
51	T	4-Methyl-2-Pentanone	0.221	0.221	0.0	67	0.00
52	CM	Toluene	0.877	0.922	-5.1#	81	0.00
53	T	t-1,3-Dichloropropene	0.458	0.465	-1.5	78	0.01
54	T	cis-1,3-Dichloropropene	0.524	0.555	-5.9	82	0.01
55	T	1,1,2-Trichloroethane	0.233	0.227	2.6	78	0.00
56	T	Ethyl methacrylate	0.350	0.352	-0.6	74	0.00
57	T	1,3-Dichloropropane	0.419	0.416	0.7	75	0.01
58	T	2-Chloroethyl Vinyl ether	0.166	0.169	-1.8	81	0.00
59	T	2-Hexanone	0.157	0.167	-6.4	74	0.00
60	T	Dibromochloromethane	0.300	0.315	-5.0	77	0.01
61	T	1,2-Dibromoethane	0.216	0.211	2.3	73	0.01
62	S	4-Bromofluorobenzene	0.406	0.442	-8.9	77	0.01
63	I	Chlorobenzene-d5	1.000	1.000	0.0	71	0.01
64	T	Tetrachloroethene	0.360	0.390	-8.3	83	0.01
65	PM	Chlorobenzene	1.115	1.152	-3.3	71	0.01
66	T	1,1,1,2-Tetrachloroethane	0.372	0.402	-8.1	77	0.00
67	C	Ethyl Benzene	2.057	2.201	-7.0#	76	0.00
68	T	m/p-Xylenes	0.741	0.797	-7.6	80	0.00
69	T	o-Xylene	0.703	0.745	-6.0	79	0.00
70	T	Styrene	1.167	1.258	-7.8	79	0.00
71	P	Bromoform	0.194	0.214	-10.3	80	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	77	0.01
73	T	Isopropylbenzene	4.236	4.572	-7.9	81	0.00
74	T	N-amyl acetate	1.024	1.026	-0.2	72	0.00
75	P	1,1,2,2-Tetrachloroethane	0.685	0.683	0.3	72	0.01
76	T	1,2,3-Trichloropropane	0.471	0.456	3.2	69	0.01
77	T	Bromobenzene	0.887	0.943	-6.3	79	0.01
78	T	n-propylbenzene	5.083	5.464	-7.5	81	0.00
79	T	2-Chlorotoluene	2.923	3.022	-3.4	80	0.00
80	T	1,3,5-Trimethylbenzene	3.423	3.668	-7.2	83	0.00
81	T	trans-1,4-Dichloro-2-butene	0.241	0.252	-4.6	76	0.00
82	T	4-Chlorotoluene	3.016	3.089	-2.4	81	0.00
83	T	tert-Butylbenzene	3.021	3.248	-7.5	81	0.00
84	T	1,2,4-Trimethylbenzene	3.394	3.565	-5.0	80	0.01
85	T	sec-Butylbenzene	4.762	4.780	-0.4	72	0.00
86	T	p-Isopropyltoluene	3.682	3.958	-7.5	79	0.01
87	T	1,3-Dichlorobenzene	1.794	1.819	-1.4	76	0.01
88	T	1,4-Dichlorobenzene	1.714	1.766	-3.0	78	0.01
89	T	n-Butylbenzene	3.526	3.738	-6.0	78	0.00
90	T	Hexachloroethane	0.711	0.746	-4.9	74	0.01
91	T	1,2-Dichlorobenzene	1.495	1.545	-3.3	77	0.01
92	T	1,2-Dibromo-3-Chloropropane	0.112	0.113	-0.9	73	0.01
93	T	1,2,4-Trichlorobenzene	0.904	0.904	0.0	78	0.01
94	T	Hexachlorobutadiene	0.552	0.616	-11.6	88	0.01
95	T	Naphthalene	1.557	1.568	-0.7	74	0.01

Sample Results: **VY020401.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020401.D
Acq On : 22 Nov 2024 09:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 22 23:55:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.773	0.732	5.3	75	0.01

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

Sample Results: **VY020401.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020401.D
Acq On : 22 Nov 2024 09:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 22 23:55:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 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	88	0.00
2	T	Dichlorodifluoromethane	50.000	57.632	-15.3	108	0.00
3	P	Chloromethane	50.000	42.999	14.0	71	0.01
4	C	Vinyl Chloride	50.000	42.313	15.4#	79	0.00
5	T	Bromomethane	50.000	46.373	7.3	86	0.01
6	T	Chloroethane	50.000	42.720	14.6	79	0.01
7	T	Trichlorofluoromethane	50.000	53.420	-6.8	93	0.01
8	T	Diethyl Ether	50.000	46.950	6.1	79	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.095	-0.2	82	0.02
10	T	Methyl Iodide	50.000	46.804	6.4	73	0.01
11	T	Tert butyl alcohol	250.000	206.445	17.4	86	0.00
12	CM	1,1-Dichloroethene	50.000	49.620	0.8#	81	0.01
13	T	Acrolein	250.000	279.300	-11.7	96	0.00
14	T	Allyl chloride	50.000	45.838	8.3	90	0.01
15	T	Acrylonitrile	250.000	231.671	7.3	85	0.01
16	T	Acetone	250.000	260.251	-4.1	79	0.01
17	T	Carbon Disulfide	50.000	47.736	4.5	74	0.01
18	T	Methyl Acetate	50.000	44.167	11.7	82	0.00
19	T	Methyl tert-butyl Ether	50.000	47.615	4.8	85	0.02
20	T	Methylene Chloride	50.000	46.837	6.3	84	0.02
21	T	trans-1,2-Dichloroethene	50.000	48.292	3.4	85	0.01
22	T	Diisopropyl ether	50.000	44.145	11.7	80	0.01
23	T	Vinyl Acetate	250.000	223.766	10.5	79	0.01
24	P	1,1-Dichloroethane	50.000	46.326	7.3	84	0.01
25	T	2-Butanone	250.000	252.766	-1.1	88	0.00
26	T	2,2-Dichloropropane	50.000	51.394	-2.8	91	0.02
27	T	cis-1,2-Dichloroethene	50.000	48.941	2.1	83	0.01
28	T	Bromochloromethane	50.000	43.770	12.5	74	0.02
29	T	Tetrahydrofuran	250.000	231.474	7.4	81	0.00
30	C	Chloroform	50.000	47.839	4.3#	77	0.01
31	T	Cyclohexane	50.000	47.499	5.0	86	0.01
32	T	1,1,1-Trichloroethane	50.000	52.493	-5.0	92	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.929	-1.9	81	0.01
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	75	0.01
35	S	Dibromofluoromethane	50.000	52.908	-5.8	79	0.01
36	T	1,1-Dichloropropene	50.000	53.755	-7.5	87	0.00
37	T	Ethyl Acetate	50.000	49.883	0.2	79	0.00
38	T	Carbon Tetrachloride	50.000	59.376	-18.8	95	0.00
39	T	Methylcyclohexane	50.000	55.291	-10.6	87	0.00
40	TM	Benzene	50.000	52.101	-4.2	83	0.01
41	T	Methacrylonitrile	50.000	51.391	-2.8	84	0.01
42	TM	1,2-Dichloroethane	50.000	52.343	-4.7	84	0.01
43	T	Isopropyl Acetate	50.000	50.983	-2.0	79	0.01
44	TM	Trichloroethene	50.000	53.358	-6.7	85	0.01
45	C	1,2-Dichloropropane	50.000	50.457	-0.9#	81	0.01
46	T	Dibromomethane	50.000	50.993	-2.0	78	0.00
47	T	Bromodichloromethane	50.000	51.211	-2.4	76	0.01
48	T	Methyl methacrylate	50.000	50.039	-0.1	78	0.01

Sample Results: **VY020401.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020401.D
Acq On : 22 Nov 2024 09:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 22 23:55:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 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	1022.544	-2.3	79	0.00
50	S	Toluene-d8	50.000	53.558	-7.1	73	0.00
51	T	4-Methyl-2-Pentanone	250.000	249.694	0.1	67	0.00
52	CM	Toluene	50.000	52.578	-5.2#	81	0.00
53	T	t-1,3-Dichloropropene	50.000	50.749	-1.5	78	0.01
54	T	cis-1,3-Dichloropropene	50.000	52.933	-5.9	82	0.01
55	T	1,1,2-Trichloroethane	50.000	48.813	2.4	78	0.00
56	T	Ethyl methacrylate	50.000	50.243	-0.5	74	0.00
57	T	1,3-Dichloropropane	50.000	49.698	0.6	75	0.01
58	T	2-Chloroethyl Vinyl ether	250.000	255.368	-2.1	81	0.00
59	T	2-Hexanone	250.000	266.955	-6.8	74	0.00
60	T	Dibromochloromethane	50.000	52.426	-4.9	77	0.01
61	T	1,2-Dibromoethane	50.000	48.955	2.1	73	0.01
62	S	4-Bromofluorobenzene	50.000	54.394	-8.8	77	0.01
63	I	Chlorobenzene-d5	50.000	50.000	0.0	71	0.01
64	T	Tetrachloroethene	50.000	54.118	-8.2	83	0.01
65	PM	Chlorobenzene	50.000	51.662	-3.3	71	0.01
66	T	1,1,1,2-Tetrachloroethane	50.000	54.008	-8.0	77	0.00
67	C	Ethyl Benzene	50.000	53.514	-7.0#	76	0.00
68	T	m/p-Xylenes	100.000	107.567	-7.6	80	0.00
69	T	o-Xylene	50.000	53.000	-6.0	79	0.00
70	T	Styrene	50.000	53.891	-7.8	79	0.00
71	P	Bromoform	50.000	55.040	-10.1	80	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	77	0.01
73	T	Isopropylbenzene	50.000	53.968	-7.9	81	0.00
74	T	N-amyl acetate	50.000	50.124	-0.2	72	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.878	0.2	72	0.01
76	T	1,2,3-Trichloropropane	50.000	48.344	3.3	69	0.01
77	T	Bromobenzene	50.000	53.150	-6.3	79	0.01
78	T	n-propylbenzene	50.000	53.748	-7.5	81	0.00
79	T	2-Chlorotoluene	50.000	51.705	-3.4	80	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.577	-7.2	83	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.374	-4.7	76	0.00
82	T	4-Chlorotoluene	50.000	51.209	-2.4	81	0.00
83	T	tert-Butylbenzene	50.000	53.760	-7.5	81	0.00
84	T	1,2,4-Trimethylbenzene	50.000	52.520	-5.0	80	0.01
85	T	sec-Butylbenzene	50.000	50.183	-0.4	72	0.00
86	T	p-Isopropyltoluene	50.000	53.747	-7.5	79	0.01
87	T	1,3-Dichlorobenzene	50.000	50.696	-1.4	76	0.01
88	T	1,4-Dichlorobenzene	50.000	51.511	-3.0	78	0.01
89	T	n-Butylbenzene	50.000	52.998	-6.0	78	0.00
90	T	Hexachloroethane	50.000	52.496	-5.0	74	0.01
91	T	1,2-Dichlorobenzene	50.000	51.661	-3.3	77	0.01
92	T	1,2-Dibromo-3-Chloropropane	50.000	50.156	-0.3	73	0.01
93	T	1,2,4-Trichlorobenzene	50.000	50.016	-0.0	78	0.01
94	T	Hexachlorobutadiene	50.000	55.832	-11.7	88	0.01
95	T	Naphthalene	50.000	50.372	-0.7	74	0.01

Sample Results: **VY020401.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020401.D
Acq On : 22 Nov 2024 09:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 22 23:55:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 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	47.368	5.3	75	0.01

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

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: CLOU03

Lab Code: CHEM Case No.: P4960 SAS No.: P4960 SDG No.: P4960

Instrument ID: MSVOA_Y Calibration Date/Time: 11/25/2024 09:46

Lab File ID: VY020423.D Init. Calib. Date(s): 11/19/2024 11/19/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 15:49 17:42

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl tert-butyl Ether	1.417	1.392		-1.76	20
Benzene	1.435	1.551		8.08	20
Toluene	0.877	0.958		9.24	20
Ethyl Benzene	2.057	2.265		10.11	20
m/p-Xylenes	0.741	0.830		12.01	20
o-Xylene	0.703	0.779		10.81	20
Isopropylbenzene	4.236	4.629		9.28	20
n-propylbenzene	5.083	5.474		7.69	20
1,3,5-Trimethylbenzene	3.423	3.743		9.35	20
tert-Butylbenzene	3.021	3.338		10.49	20
1,2,4-Trimethylbenzene	3.394	3.638		7.19	20
sec-Butylbenzene	4.762	4.796		0.71	20
p-Isopropyltoluene	3.682	4.028		9.4	20
n-Butylbenzene	3.526	3.768		6.86	20
Naphthalene	1.557	1.555		-0.13	20
1,2-Dichloroethane-d4	0.574	0.559		-2.61	20
Dibromofluoromethane	0.321	0.313		-2.49	20
Toluene-d8	1.263	1.228		-2.77	20
4-Bromofluorobenzene	0.406	0.401		-1.23	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: **VY020423.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020423.D
Acq On : 25 Nov 2024 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 00:41:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/26/2024
Supervised By :Mahesh Dadoda 11/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.725	168	174684	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.628	114	285382	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.426	117	233134	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.359	152	107880	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	97636	48.650	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 97.300%			
35) Dibromofluoromethane	7.646	113	89257	48.776	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.560%			
50) Toluene-d8	10.115	98	350540	48.628	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.260%			
62) 4-Bromofluorobenzene	12.414	95	114313	49.330	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery = 98.660%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	96224	56.750	ug/l	99
3) Chloromethane	2.080	50	99273	44.152	ug/l	99
4) Vinyl Chloride	2.220	62	97909	42.091	ug/l	97
5) Bromomethane	2.611	94	56470	48.608	ug/l	99
6) Chloroethane	2.751	64	59563	43.894	ug/l	99
7) Trichlorofluoromethane	3.080	101	177559	54.929	ug/l	99
8) Diethyl Ether	3.470	74	48827	47.874	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.836	101	96786	50.276	ug/l	100
10) Methyl Iodide	4.025	142	125345	48.610	ug/l	94
11) Tert butyl alcohol	4.884	59	27541	182.814	ug/l	98
12) 1,1-Dichloroethene	3.812	96	98728	51.810	ug/l	97
13) Acrolein	3.665	56	29810	239.879	ug/l	99
14) Allyl chloride	4.403	41	177493	48.167	ug/l	96
15) Acrylonitrile	5.073	53	102840	228.101	ug/l	99
16) Acetone	3.885	43	134309	279.161	ug/l	99
17) Carbon Disulfide	4.129	76	316647	49.322	ug/l	99
18) Methyl Acetate	4.403	43	50522	45.049	ug/l	99
19) Methyl tert-butyl Ether	5.128	73	243157	49.120	ug/l	96
20) Methylene Chloride	4.641	84	101155	49.649	ug/l	98
21) trans-1,2-Dichloroethene	5.134	96	106881	50.500	ug/l	93
22) Diisopropyl ether	6.037	45	337243	46.441	ug/l	99
23) Vinyl Acetate	5.982	43	928358	228.762	ug/l	100
24) 1,1-Dichloroethane	5.939	63	204360	49.849	ug/l	99
25) 2-Butanone	6.909	43	157085	253.614	ug/l	99
26) 2,2-Dichloropropane	6.902	77	189283	55.863	ug/l	98
27) cis-1,2-Dichloroethene	6.909	96	122563	52.576	ug/l	100
28) Bromochloromethane	7.262	49	70747	41.003	ug/l	96
29) Tetrahydrofuran	7.280	42	82573	223.055	ug/l	99
30) Chloroform	7.433	83	204452	51.646	ug/l	98
31) Cyclohexane	7.719	56	175415	46.888	ug/l	98
32) 1,1,1-Trichloroethane	7.634	97	194774	56.034	ug/l	98
36) 1,1-Dichloropropene	7.853	75	152503	54.563	ug/l	100
37) Ethyl Acetate	7.000	43	60163	46.988	ug/l	98
38) Carbon Tetrachloride	7.835	117	178803	61.270	ug/l	96
39) Methylcyclohexane	9.115	83	183470	52.450	ug/l	99
40) Benzene	8.091	78	442569	54.032	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020423.D
Acq On : 25 Nov 2024 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 00:41:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/26/2024
Supervised By :Mahesh Dadoda 11/26/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.238	41	34330	47.123	ug/l		95
42) 1,2-Dichloroethane	8.170	62	120173	54.354	ug/l		100
43) Isopropyl Acetate	8.207	43	120526	48.405	ug/l		97
44) Trichloroethene	8.878	130	107113	55.194	ug/l		99
45) 1,2-Dichloropropane	9.152	63	100738	51.549	ug/l		99
46) Dibromomethane	9.243	93	51731	51.647	ug/l		99
47) Bromodichloromethane	9.432	83	148962	53.873	ug/l		99
48) Methyl methacrylate	9.231	41	56621	47.563	ug/l		97
49) 1,4-Dioxane	9.243	88	9611	932.665	ug/l	#	91
51) 4-Methyl-2-Pentanone	10.006	43	293676	232.411	ug/l		99
52) Toluene	10.176	92	273489	54.628	ug/l		98
53) t-1,3-Dichloropropene	10.402	75	136649	52.261	ug/l		99
54) cis-1,3-Dichloropropene	9.865	75	163261	54.544	ug/l		96
55) 1,1,2-Trichloroethane	10.579	97	67212	50.552	ug/l		97
56) Ethyl methacrylate	10.444	69	97185	48.672	ug/l		95
57) 1,3-Dichloropropane	10.725	76	122369	51.212	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.719	63	214055	226.086	ug/l		97
59) 2-Hexanone	10.768	43	221629	247.696	ug/l		96
60) Dibromochloromethane	10.920	129	91872	53.609	ug/l		97
61) 1,2-Dibromoethane	11.024	107	60152	48.823	ug/l		100
64) Tetrachloroethene	10.652	164	92139	54.827	ug/l		97
65) Chlorobenzene	11.450	112	279558	53.781	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.524	131	98316	56.618	ug/l		97
67) Ethyl Benzene	11.524	91	527987	55.057	ug/l		99
68) m/p-Xylenes	11.639	106	387037	112.047	ug/l		97
69) o-Xylene	11.962	106	181667	55.449	ug/l		98
70) Styrene	11.975	104	305145	56.058	ug/l		98
71) Bromoform	12.139	173	51400	56.796	ug/l	#	98
73) Isopropylbenzene	12.261	105	499390	54.646	ug/l		99
74) N-amyl acetate	12.078	43	101996	46.184	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.511	83	70145	47.492	ug/l		99
76) 1,2,3-Trichloropropane	12.566	75	55326m	54.412	ug/l		
77) Bromobenzene	12.536	156	103217	53.909	ug/l		98
78) n-propylbenzene	12.603	91	590576	53.848	ug/l		99
79) 2-Chlorotoluene	12.688	91	333692	52.916	ug/l		100
80) 1,3,5-Trimethylbenzene	12.743	105	403807	54.674	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.310	75	25350	48.851	ug/l		97
82) 4-Chlorotoluene	12.786	91	343818	52.829	ug/l		98
83) tert-Butylbenzene	13.005	119	360086	55.248	ug/l		98
84) 1,2,4-Trimethylbenzene	13.054	105	392415	53.592	ug/l		99
85) sec-Butylbenzene	13.182	105	517423	50.357	ug/l		100
86) p-Isopropyltoluene	13.298	119	434534	54.696	ug/l		99
87) 1,3-Dichlorobenzene	13.298	146	200328	51.746	ug/l		99
88) 1,4-Dichlorobenzene	13.377	146	195463	52.843	ug/l		99
89) n-Butylbenzene	13.627	91	406503	53.431	ug/l		99
90) Hexachloroethane	13.889	117	82749	53.966	ug/l		96
91) 1,2-Dichlorobenzene	13.669	146	168933	52.373	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.285	75	11052	45.602	ug/l		98
93) 1,2,4-Trichlorobenzene	14.931	180	102140	52.372	ug/l		99
94) Hexachlorobutadiene	15.035	225	68013	57.131	ug/l		99
95) Naphthalene	15.157	128	167750	49.944	ug/l		99
96) 1,2,3-Trichlorobenzene	15.340	180	83798	50.252	ug/l		100

Sample Results: **VY020423.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020423.D
Acq On : 25 Nov 2024 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 00:41:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/26/2024
Supervised By :Mahesh Dadoda 11/26/2024

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

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

Sample Results: **VY020423.D**

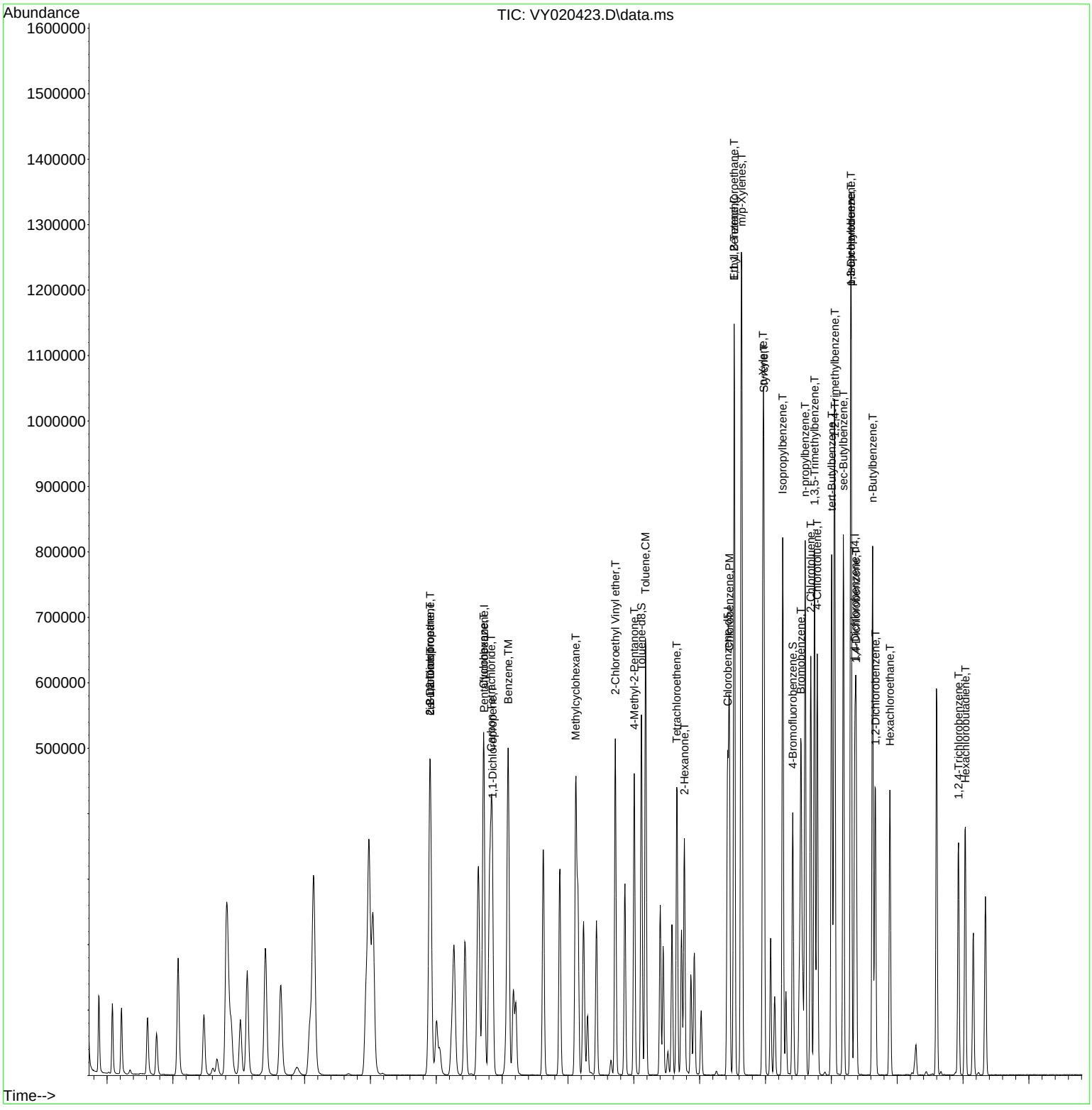
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020423.D
Acq On : 25 Nov 2024 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 00:41:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/26/2024
Supervised By :Mahesh Dadoda 11/26/2024



Sample Results: **VY020423.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020423.D
Acq On : 25 Nov 2024 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 26 00:41:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 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	77	0.01
2	T	Dichlorodifluoromethane	0.485	0.551	-13.6	93	0.00
3	P	Chloromethane	0.735	0.568	22.7	64	0.01
4	C	Vinyl Chloride	0.666	0.560	15.9#	69	0.01
5	T	Bromomethane	0.333	0.323	3.0	79	0.01
6	T	Chloroethane	0.388	0.341	12.1	71	0.01
7	T	Trichlorofluoromethane	0.925	1.016	-9.8	84	0.02
8	T	Diethyl Ether	0.292	0.280	4.1	70	0.01
9	T	1,1,2-Trichlorotrifluoroeth	0.551	0.554	-0.5	72	0.02
10	T	Methyl Iodide	0.738	0.718	2.7	67	0.02
11	T	Tert butyl alcohol	0.044	0.032	27.3#	67	0.00
12	CM	1,1-Dichloroethene	0.545	0.565	-3.7#	74	0.02
13	T	Acrolein	0.036	0.034	5.6	72	0.00
14	T	Allyl chloride	1.055	1.016	3.7	83	0.01
15	T	Acrylonitrile	0.129	0.118	8.5	73	0.01
16	T	Acetone	0.138	0.154	-11.6	74	0.01
17	T	Carbon Disulfide	1.838	1.813	1.4	67	0.02
18	T	Methyl Acetate	0.321	0.289	10.0	74	0.01
19	T	Methyl tert-butyl Ether	1.417	1.392	1.8	77	0.01
20	T	Methylene Chloride	0.583	0.579	0.7	78	0.02
21	T	trans-1,2-Dichloroethene	0.606	0.612	-1.0	78	0.01
22	T	Diisopropyl ether	2.079	1.931	7.1	74	0.01
23	T	Vinyl Acetate	1.162	1.063	8.5	71	0.02
24	P	1,1-Dichloroethane	1.173	1.170	0.3	79	0.02
25	T	2-Butanone	0.177	0.180	-1.7	77	0.01
26	T	2,2-Dichloropropane	0.970	1.084	-11.8	87	0.02
27	T	cis-1,2-Dichloroethene	0.667	0.702	-5.2	79	0.01
28	T	Bromochloromethane	0.494	0.405	18.0	61	0.02
29	T	Tetrahydrofuran	0.106	0.095	10.4	68	0.01
30	C	Chloroform	1.133	1.170	-3.3#	73	0.01
31	T	Cyclohexane	1.071	1.004	6.3	75	0.02
32	T	1,1,1-Trichloroethane	0.995	1.115	-12.1	86	0.01
33	S	1,2-Dichloroethane-d4	0.574	0.559	2.6	68	0.01
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	68	0.01
35	S	Dibromofluoromethane	0.321	0.313	2.5	66	0.01
36	T	1,1-Dichloropropene	0.490	0.534	-9.0	80	0.01
37	T	Ethyl Acetate	0.224	0.211	5.8	68	0.01
38	T	Carbon Tetrachloride	0.511	0.627	-22.7	89	0.01
39	T	Methylcyclohexane	0.613	0.643	-4.9	75	0.00
40	TM	Benzene	1.435	1.551	-8.1	78	0.01
41	T	Methacrylonitrile	0.128	0.120	6.3	69	0.01
42	TM	1,2-Dichloroethane	0.387	0.421	-8.8	79	0.01
43	T	Isopropyl Acetate	0.436	0.422	3.2	68	0.01
44	TM	Trichloroethene	0.340	0.375	-10.3	80	0.01
45	C	1,2-Dichloropropane	0.342	0.353	-3.2#	75	0.01
46	T	Dibromomethane	0.175	0.181	-3.4	72	0.01
47	T	Bromodichloromethane	0.484	0.522	-7.9	72	0.01
48	T	Methyl methacrylate	0.209	0.198	5.3	67	0.01

Sample Results: **VY020423.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020423.D
Acq On : 25 Nov 2024 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 26 00:41:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 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	0.002	0.002	0.0	65	0.00
50	S	Toluene-d8	1.263	1.228	2.8	60	0.00
51	T	4-Methyl-2-Pentanone	0.221	0.206	6.8	57	0.00
52	CM	Toluene	0.877	0.958	-9.2#	77	0.00
53	T	t-1,3-Dichloropropene	0.458	0.479	-4.6	73	0.01
54	T	cis-1,3-Dichloropropene	0.524	0.572	-9.2	77	0.01
55	T	1,1,2-Trichloroethane	0.233	0.236	-1.3	73	0.00
56	T	Ethyl methacrylate	0.350	0.341	2.6	65	0.00
57	T	1,3-Dichloropropane	0.419	0.429	-2.4	70	0.01
58	T	2-Chloroethyl Vinyl ether	0.166	0.150	9.6	65	0.00
59	T	2-Hexanone	0.157	0.155	1.3	62	0.00
60	T	Dibromochloromethane	0.300	0.322	-7.3	72	0.01
61	T	1,2-Dibromoethane	0.216	0.211	2.3	66	0.01
62	S	4-Bromofluorobenzene	0.406	0.401	1.2	63	0.01
63	I	Chlorobenzene-d5	1.000	1.000	0.0	65	0.01
64	T	Tetrachloroethene	0.360	0.395	-9.7	77	0.00
65	PM	Chlorobenzene	1.115	1.199	-7.5	68	0.01
66	T	1,1,1,2-Tetrachloroethane	0.372	0.422	-13.4	74	0.00
67	C	Ethyl Benzene	2.057	2.265	-10.1#	71	0.00
68	T	m/p-Xylenes	0.741	0.830	-12.0	76	0.01
69	T	o-Xylene	0.703	0.779	-10.8	75	0.00
70	T	Styrene	1.167	1.309	-12.2	75	0.00
71	P	Bromoform	0.194	0.220	-13.4	76	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	72	0.01
73	T	Isopropylbenzene	4.236	4.629	-9.3	77	0.00
74	T	N-amyl acetate	1.024	0.945	7.7	62	0.00
75	P	1,1,2,2-Tetrachloroethane	0.685	0.650	5.1	64	0.00
76	T	1,2,3-Trichloropropane	0.471	0.513	-8.9	72	0.01
77	T	Bromobenzene	0.887	0.957	-7.9	75	0.00
78	T	n-propylbenzene	5.083	5.474	-7.7	76	0.00
79	T	2-Chlorotoluene	2.923	3.093	-5.8	77	0.00
80	T	1,3,5-Trimethylbenzene	3.423	3.743	-9.3	80	0.00
81	T	trans-1,4-Dichloro-2-butene	0.241	0.235	2.5	66	0.00
82	T	4-Chlorotoluene	3.016	3.187	-5.7	78	0.00
83	T	tert-Butylbenzene	3.021	3.338	-10.5	78	0.00
84	T	1,2,4-Trimethylbenzene	3.394	3.638	-7.2	77	0.01
85	T	sec-Butylbenzene	4.762	4.796	-0.7	68	0.00
86	T	p-Isopropyltoluene	3.682	4.028	-9.4	75	0.00
87	T	1,3-Dichlorobenzene	1.794	1.857	-3.5	72	0.01
88	T	1,4-Dichlorobenzene	1.714	1.812	-5.7	76	0.01
89	T	n-Butylbenzene	3.526	3.768	-6.9	74	0.00
90	T	Hexachloroethane	0.711	0.767	-7.9	72	0.01
91	T	1,2-Dichlorobenzene	1.495	1.566	-4.7	73	0.01
92	T	1,2-Dibromo-3-Chloropropane	0.112	0.102	8.9	62	0.01
93	T	1,2,4-Trichlorobenzene	0.904	0.947	-4.8	76	0.01
94	T	Hexachlorobutadiene	0.552	0.630	-14.1	84	0.01
95	T	Naphthalene	1.557	1.555	0.1	69	0.01

Sample Results: **VY020423.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020423.D
Acq On : 25 Nov 2024 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 26 00:41:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.773	0.777	-0.5	75	0.01

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

Sample Results: **VY020423.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020423.D
Acq On : 25 Nov 2024 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 26 00:41:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 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	77	0.01
2	T	Dichlorodifluoromethane	50.000	56.750	-13.5	93	0.00
3	P	Chloromethane	50.000	44.152	11.7	64	0.01
4	C	Vinyl Chloride	50.000	42.091	15.8#	69	0.01
5	T	Bromomethane	50.000	48.608	2.8	79	0.01
6	T	Chloroethane	50.000	43.894	12.2	71	0.01
7	T	Trichlorofluoromethane	50.000	54.929	-9.9	84	0.02
8	T	Diethyl Ether	50.000	47.874	4.3	70	0.01
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.276	-0.6	72	0.02
10	T	Methyl Iodide	50.000	48.610	2.8	67	0.02
11	T	Tert butyl alcohol	250.000	182.814	26.9#	67	0.00
12	CM	1,1-Dichloroethene	50.000	51.810	-3.6#	74	0.02
13	T	Acrolein	250.000	239.879	4.0	72	0.00
14	T	Allyl chloride	50.000	48.167	3.7	83	0.01
15	T	Acrylonitrile	250.000	228.101	8.8	73	0.01
16	T	Acetone	250.000	279.161	-11.7	74	0.01
17	T	Carbon Disulfide	50.000	49.322	1.4	67	0.02
18	T	Methyl Acetate	50.000	45.049	9.9	74	0.01
19	T	Methyl tert-butyl Ether	50.000	49.120	1.8	77	0.01
20	T	Methylene Chloride	50.000	49.649	0.7	78	0.02
21	T	trans-1,2-Dichloroethene	50.000	50.500	-1.0	78	0.01
22	T	Diisopropyl ether	50.000	46.441	7.1	74	0.01
23	T	Vinyl Acetate	250.000	228.762	8.5	71	0.02
24	P	1,1-Dichloroethane	50.000	49.849	0.3	79	0.02
25	T	2-Butanone	250.000	253.614	-1.4	77	0.01
26	T	2,2-Dichloropropane	50.000	55.863	-11.7	87	0.02
27	T	cis-1,2-Dichloroethene	50.000	52.576	-5.2	79	0.01
28	T	Bromochloromethane	50.000	41.003	18.0	61	0.02
29	T	Tetrahydrofuran	250.000	223.055	10.8	68	0.01
30	C	Chloroform	50.000	51.646	-3.3#	73	0.01
31	T	Cyclohexane	50.000	46.888	6.2	75	0.02
32	T	1,1,1-Trichloroethane	50.000	56.034	-12.1	86	0.01
33	S	1,2-Dichloroethane-d4	50.000	48.650	2.7	68	0.01
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	68	0.01
35	S	Dibromofluoromethane	50.000	48.776	2.4	66	0.01
36	T	1,1-Dichloropropene	50.000	54.563	-9.1	80	0.01
37	T	Ethyl Acetate	50.000	46.988	6.0	68	0.01
38	T	Carbon Tetrachloride	50.000	61.270	-22.5	89	0.01
39	T	Methylcyclohexane	50.000	52.450	-4.9	75	0.00
40	TM	Benzene	50.000	54.032	-8.1	78	0.01
41	T	Methacrylonitrile	50.000	47.123	5.8	69	0.01
42	TM	1,2-Dichloroethane	50.000	54.354	-8.7	79	0.01
43	T	Isopropyl Acetate	50.000	48.405	3.2	68	0.01
44	TM	Trichloroethene	50.000	55.194	-10.4	80	0.01
45	C	1,2-Dichloropropane	50.000	51.549	-3.1#	75	0.01
46	T	Dibromomethane	50.000	51.647	-3.3	72	0.01
47	T	Bromodichloromethane	50.000	53.873	-7.7	72	0.01
48	T	Methyl methacrylate	50.000	47.563	4.9	67	0.01

Sample Results: **VY020423.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020423.D
Acq On : 25 Nov 2024 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 26 00:41:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 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	932.665	6.7	65	0.00
50	S	Toluene-d8	50.000	48.628	2.7	60	0.00
51	T	4-Methyl-2-Pentanone	250.000	232.411	7.0	57	0.00
52	CM	Toluene	50.000	54.628	-9.3#	77	0.00
53	T	t-1,3-Dichloropropene	50.000	52.261	-4.5	73	0.01
54	T	cis-1,3-Dichloropropene	50.000	54.544	-9.1	77	0.01
55	T	1,1,2-Trichloroethane	50.000	50.552	-1.1	73	0.00
56	T	Ethyl methacrylate	50.000	48.672	2.7	65	0.00
57	T	1,3-Dichloropropane	50.000	51.212	-2.4	70	0.01
58	T	2-Chloroethyl Vinyl ether	250.000	226.086	9.6	65	0.00
59	T	2-Hexanone	250.000	247.696	0.9	62	0.00
60	T	Dibromochloromethane	50.000	53.609	-7.2	72	0.01
61	T	1,2-Dibromoethane	50.000	48.823	2.4	66	0.01
62	S	4-Bromofluorobenzene	50.000	49.330	1.3	63	0.01
63	I	Chlorobenzene-d5	50.000	50.000	0.0	65	0.01
64	T	Tetrachloroethene	50.000	54.827	-9.7	77	0.00
65	PM	Chlorobenzene	50.000	53.781	-7.6	68	0.01
66	T	1,1,1,2-Tetrachloroethane	50.000	56.618	-13.2	74	0.00
67	C	Ethyl Benzene	50.000	55.057	-10.1#	71	0.00
68	T	m/p-Xylenes	100.000	112.047	-12.0	76	0.01
69	T	o-Xylene	50.000	55.449	-10.9	75	0.00
70	T	Styrene	50.000	56.058	-12.1	75	0.00
71	P	Bromoform	50.000	56.796	-13.6	76	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	72	0.01
73	T	Isopropylbenzene	50.000	54.646	-9.3	77	0.00
74	T	N-amyl acetate	50.000	46.184	7.6	62	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	47.492	5.0	64	0.00
76	T	1,2,3-Trichloropropane	50.000	54.412	-8.8	72	0.01
77	T	Bromobenzene	50.000	53.909	-7.8	75	0.00
78	T	n-propylbenzene	50.000	53.848	-7.7	76	0.00
79	T	2-Chlorotoluene	50.000	52.916	-5.8	77	0.00
80	T	1,3,5-Trimethylbenzene	50.000	54.674	-9.3	80	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	48.851	2.3	66	0.00
82	T	4-Chlorotoluene	50.000	52.829	-5.7	78	0.00
83	T	tert-Butylbenzene	50.000	55.248	-10.5	78	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.592	-7.2	77	0.01
85	T	sec-Butylbenzene	50.000	50.357	-0.7	68	0.00
86	T	p-Isopropyltoluene	50.000	54.696	-9.4	75	0.00
87	T	1,3-Dichlorobenzene	50.000	51.746	-3.5	72	0.01
88	T	1,4-Dichlorobenzene	50.000	52.843	-5.7	76	0.01
89	T	n-Butylbenzene	50.000	53.431	-6.9	74	0.00
90	T	Hexachloroethane	50.000	53.966	-7.9	72	0.01
91	T	1,2-Dichlorobenzene	50.000	52.373	-4.7	73	0.01
92	T	1,2-Dibromo-3-Chloropropane	50.000	45.602	8.8	62	0.01
93	T	1,2,4-Trichlorobenzene	50.000	52.372	-4.7	76	0.01
94	T	Hexachlorobutadiene	50.000	57.131	-14.3	84	0.01
95	T	Naphthalene	50.000	49.944	0.1	69	0.01

Sample Results: **VY020423.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020423.D
Acq On : 25 Nov 2024 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 26 00:41:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 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	50.252	-0.5	75	0.01

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

QC SAMPLE DATA

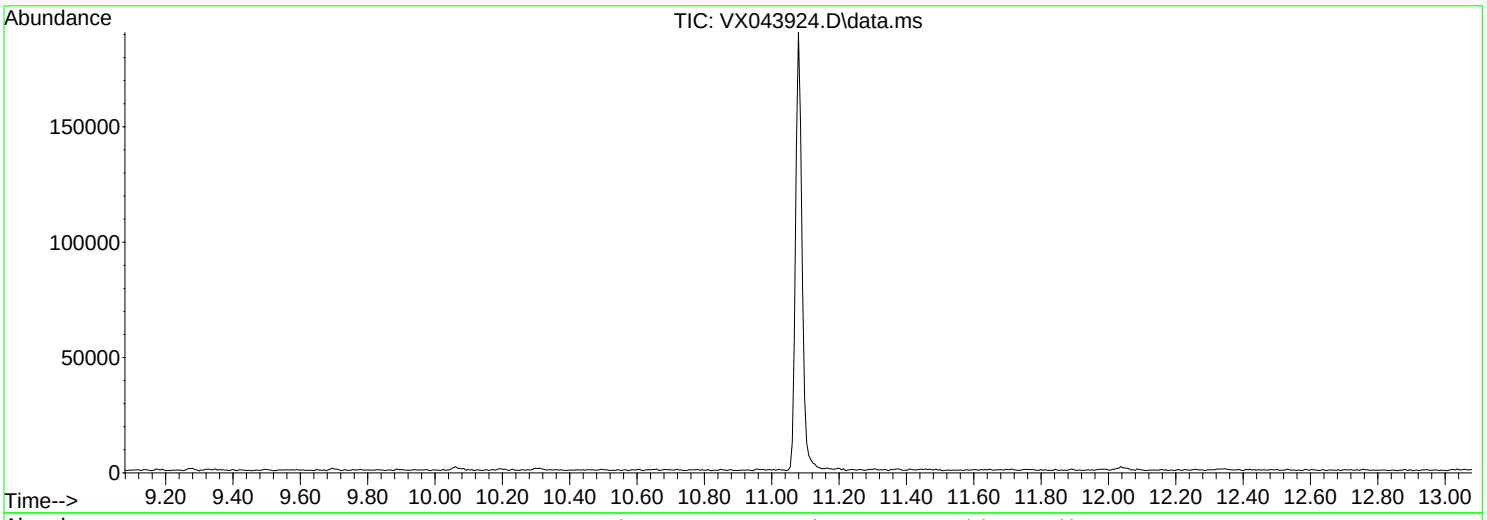
Sample Results: **VX043924.D**

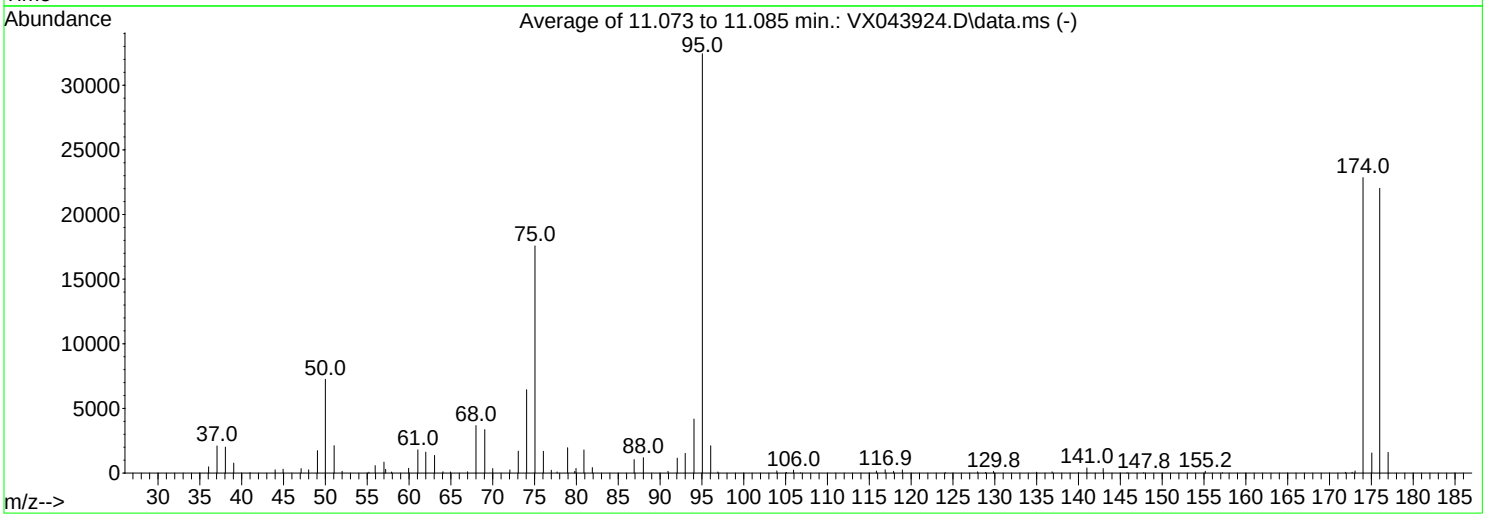
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043924.D
Acq On : 21 Nov 2024 08:51
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Title : SW846 8260
Last Update : Fri Nov 22 00:18:05 2024





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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.4	7254	PASS
75	95	30	60	54.2	17573	PASS
95	95	100	100	100.0	32437	PASS
96	95	5	9	6.5	2112	PASS
173	174	0.00	2	0.7	162	PASS
174	95	50	100	70.5	22853	PASS
175	174	5	9	6.8	1557	PASS
176	174	95	101	96.4	22030	PASS
177	176	5	9	7.3	1600	PASS

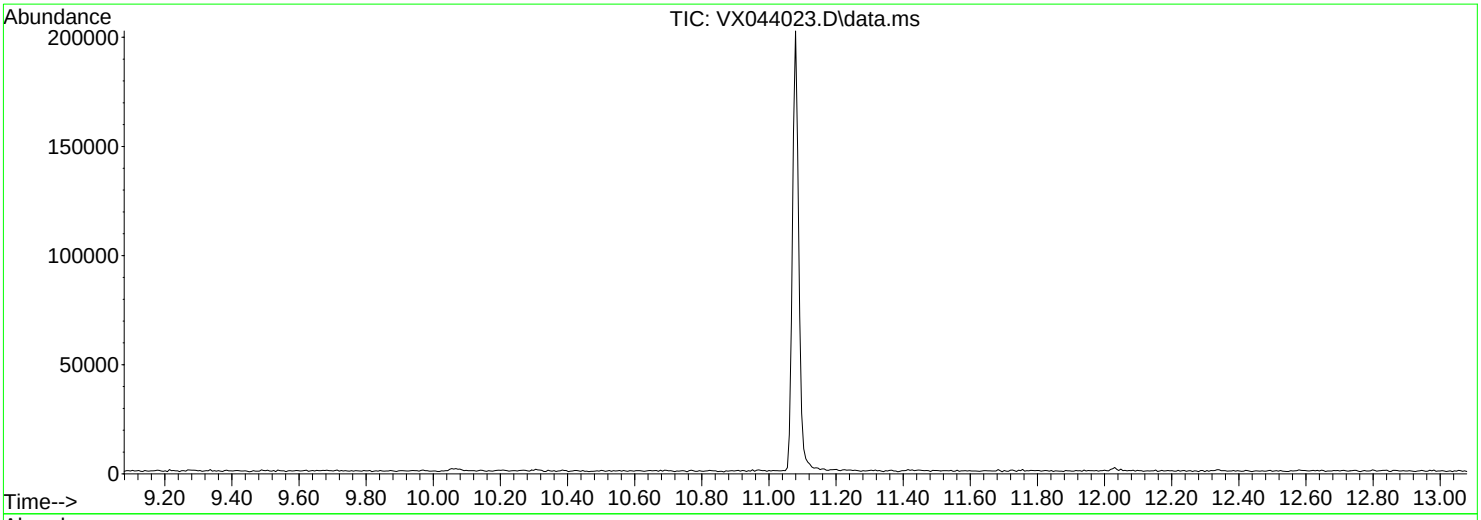
Sample Results: **VX044023.D**

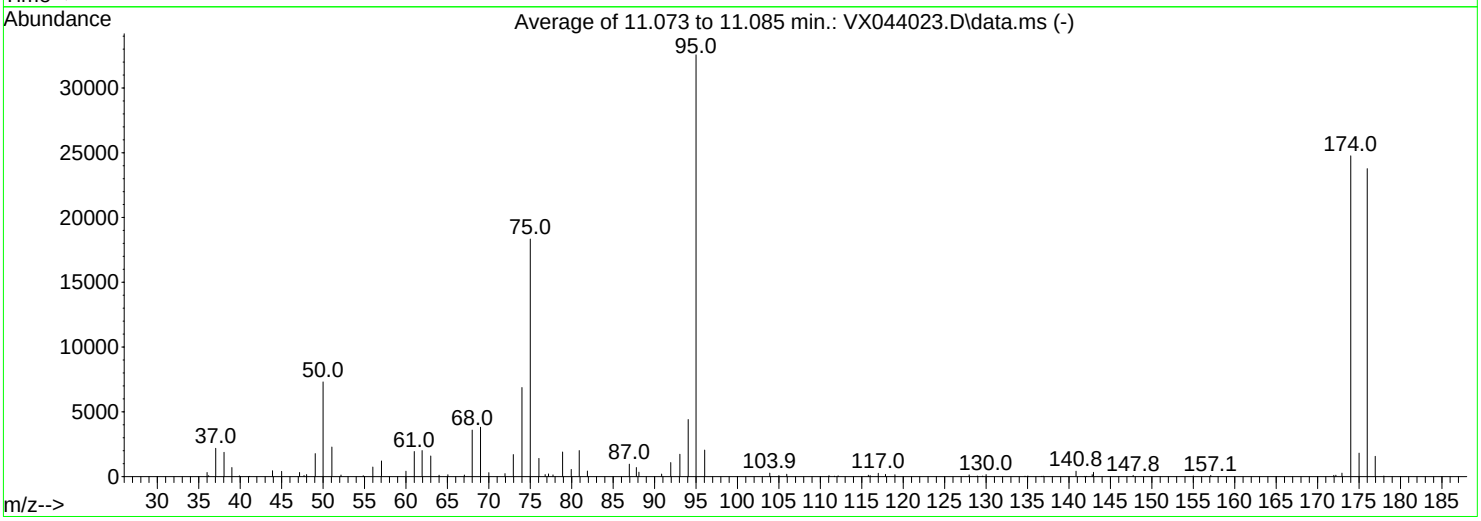
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044023.D
Acq On : 27 Nov 2024 07:52
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Title : SW846 8260
Last Update : Fri Nov 22 03:45:52 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	22.5	7314	PASS
75	95	30	60	56.3	18335	PASS
95	95	100	100	100.0	32555	PASS
96	95	5	9	6.3	2051	PASS
173	174	0.00	2	1.1	266	PASS
174	95	50	100	76.1	24760	PASS
175	174	5	9	7.3	1810	PASS
176	174	95	101	96.0	23773	PASS
177	176	5	9	6.6	1572	PASS

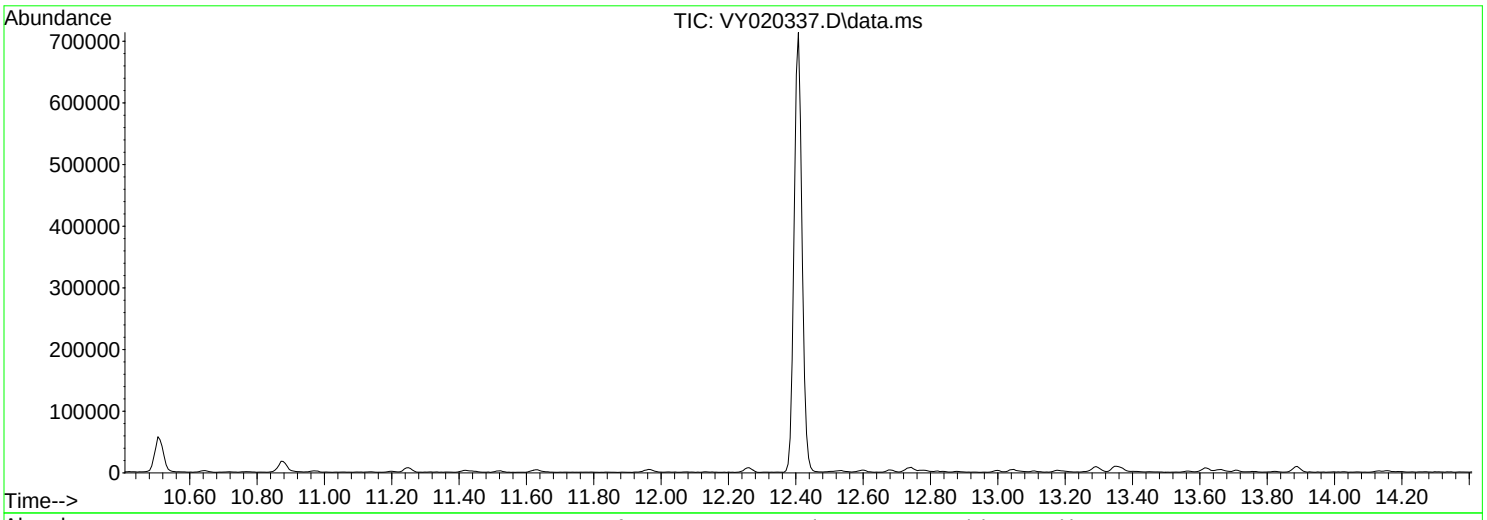
Sample Results: **VY020337.D**

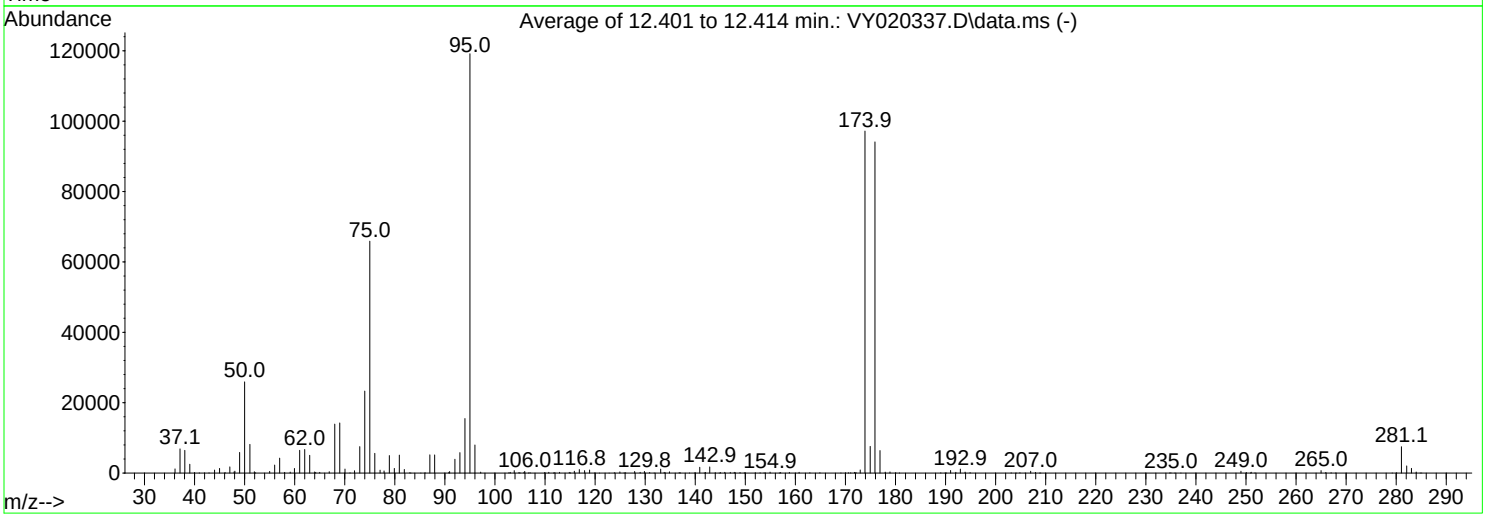
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020337.D
Acq On : 19 Nov 2024 14:40
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Title : SW846 8260
Last Update : Wed Nov 20 04:38:24 2024





AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	25915	PASS
75	95	30	60	55.3	65907	PASS
95	95	100	100	100.0	119168	PASS
96	95	5	9	6.7	7986	PASS
173	174	0.00	2	0.9	895	PASS
174	95	50	100	81.6	97187	PASS
175	174	5	9	7.8	7585	PASS
176	174	95	101	96.8	94104	PASS
177	176	5	9	6.8	6392	PASS

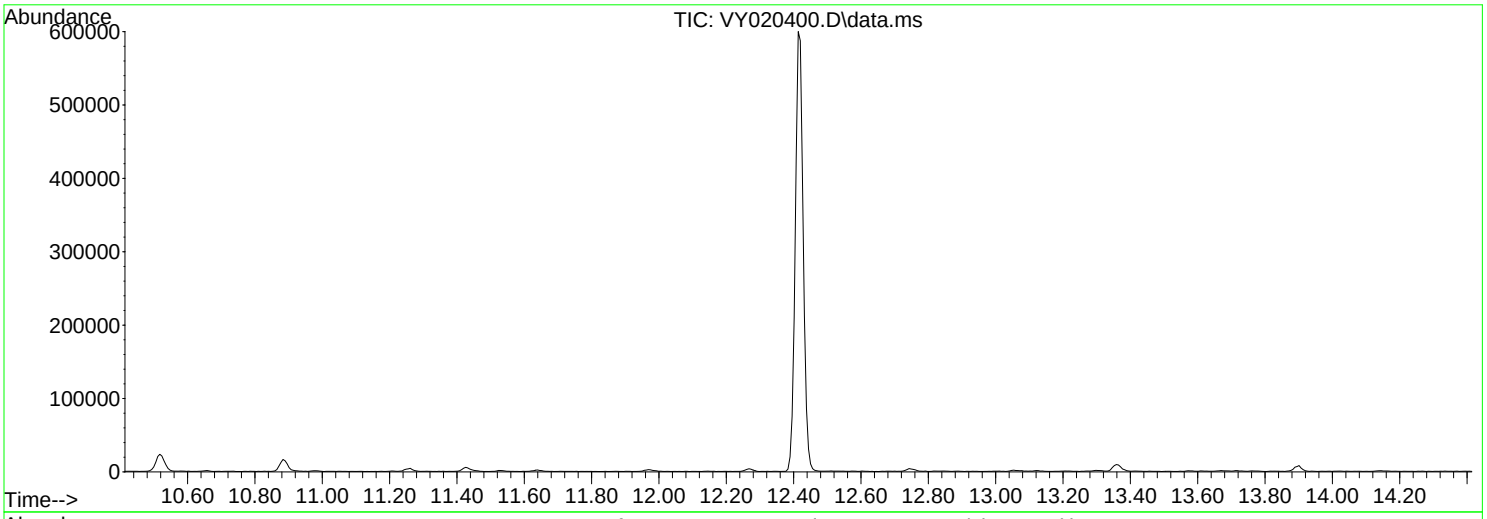
Sample Results: **VY020400.D**

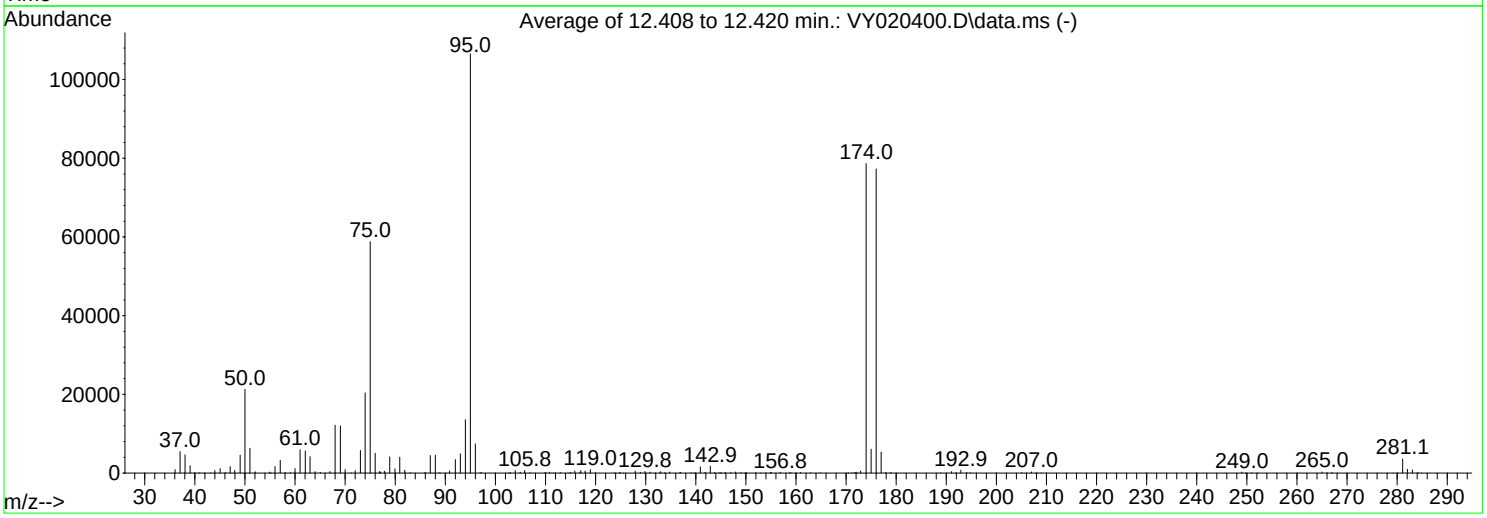
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020400.D
Acq On : 22 Nov 2024 08:56
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Title : SW846 8260
Last Update : Wed Nov 20 04:38:24 2024





AutoFind: Scans 1753, 1754, 1755; Background Corrected with Scan 1746

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	21291	PASS
75	95	30	60	55.2	58803	PASS
95	95	100	100	100.0	106549	PASS
96	95	5	9	7.0	7433	PASS
173	174	0.00	2	0.7	521	PASS
174	95	50	100	73.8	78624	PASS
175	174	5	9	7.7	6067	PASS
176	174	95	101	98.3	77283	PASS
177	176	5	9	6.9	5341	PASS

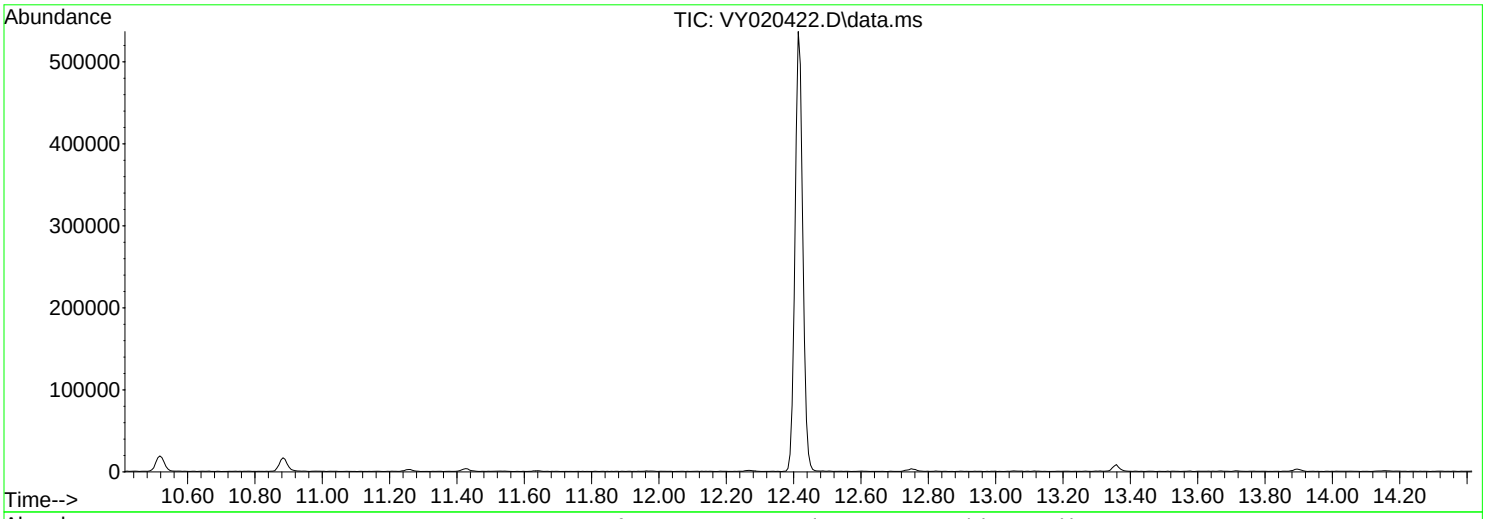
Sample Results: **VY020422.D**

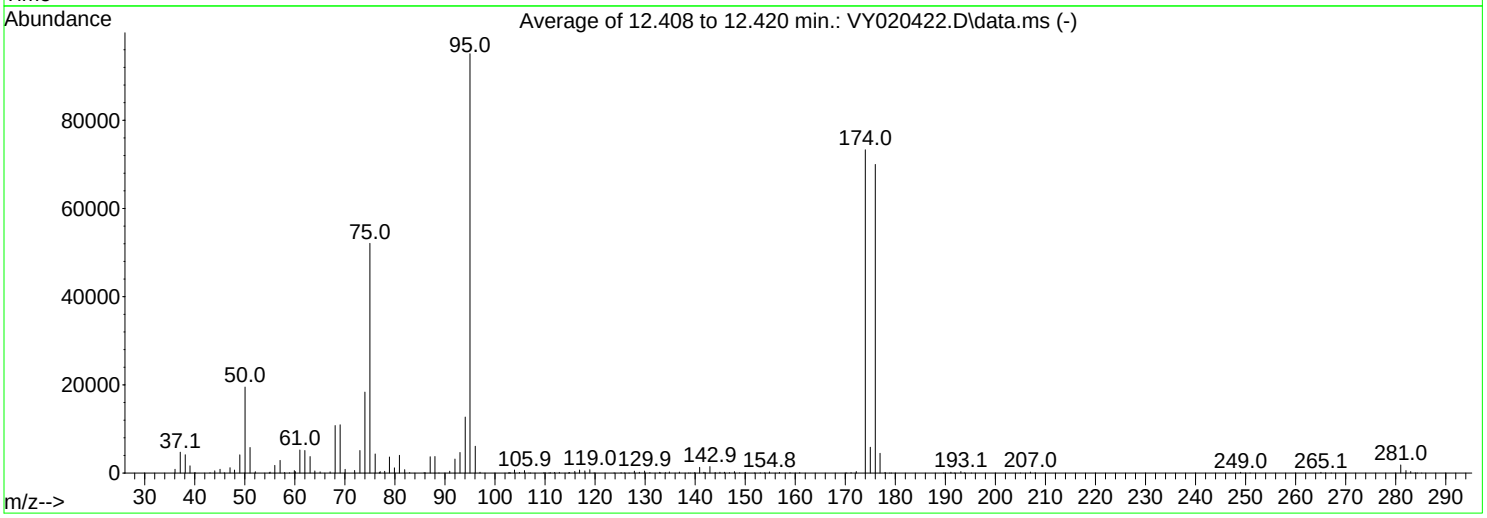
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020422.D
Acq On : 25 Nov 2024 09:01
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Title : SW846 8260
Last Update : Wed Nov 20 04:38:24 2024





AutoFind: Scans 1753, 1754, 1755; Background Corrected with Scan 1745

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	19509	PASS
75	95	30	60	54.8	52101	PASS
95	95	100	100	100.0	95093	PASS
96	95	5	9	6.4	6087	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.1	73309	PASS
175	174	5	9	8.0	5860	PASS
176	174	95	101	95.5	69989	PASS
177	176	5	9	6.4	4487	PASS

Raw Data: **VX044025.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	
Client Sample ID:	VX1127MBL01	SDG No.:	P4960
Lab Sample ID:	VX1127MBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044025.D	1		11/27/24 09:15	VX112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	67.0	U	67.0	500	ug/Kg
71-43-2	Benzene	72.0	U	72.0	500	ug/Kg
108-88-3	Toluene	67.0	U	67.0	500	ug/Kg
100-41-4	Ethyl Benzene	62.0	U	62.0	500	ug/Kg
179601-23-1	m/p-Xylenes	140	U	140	1000	ug/Kg
95-47-6	o-Xylene	70.0	U	70.0	500	ug/Kg
98-82-8	Isopropylbenzene	67.0	U	67.0	500	ug/Kg
103-65-1	n-propylbenzene	64.0	U	64.0	500	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	64.0	U	64.0	500	ug/Kg
98-06-6	tert-Butylbenzene	67.0	U	67.0	500	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	140	U	140	500	ug/Kg
135-98-8	sec-Butylbenzene	67.0	U	67.0	500	ug/Kg
99-87-6	p-Isopropyltoluene	58.0	U	58.0	500	ug/Kg
104-51-8	n-Butylbenzene	63.0	U	63.0	500	ug/Kg
91-20-3	Naphthalene	150	U	150	500	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.3		50 - 163	99%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		54 - 147	94%	SPK: 50
2037-26-5	Toluene-d8	50.0		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		29 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	119000	5.538			
540-36-3	1,4-Difluorobenzene	228000	6.751			
3114-55-4	Chlorobenzene-d5	208000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	87400	12.018			

Raw Data: **VX044025.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	
Client Sample ID:	VX1127MBL01	SDG No.:	P4960
Lab Sample ID:	VX1127MBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044025.D	1		11/27/24 09:15	VX112724

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\VX112724\
Data File : VX044025.D
Acq On : 27 Nov 2024 09:15
Operator : JC/MD
Sample : VX1127MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1127MBL01

Quant Time: Nov 28 00:39:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

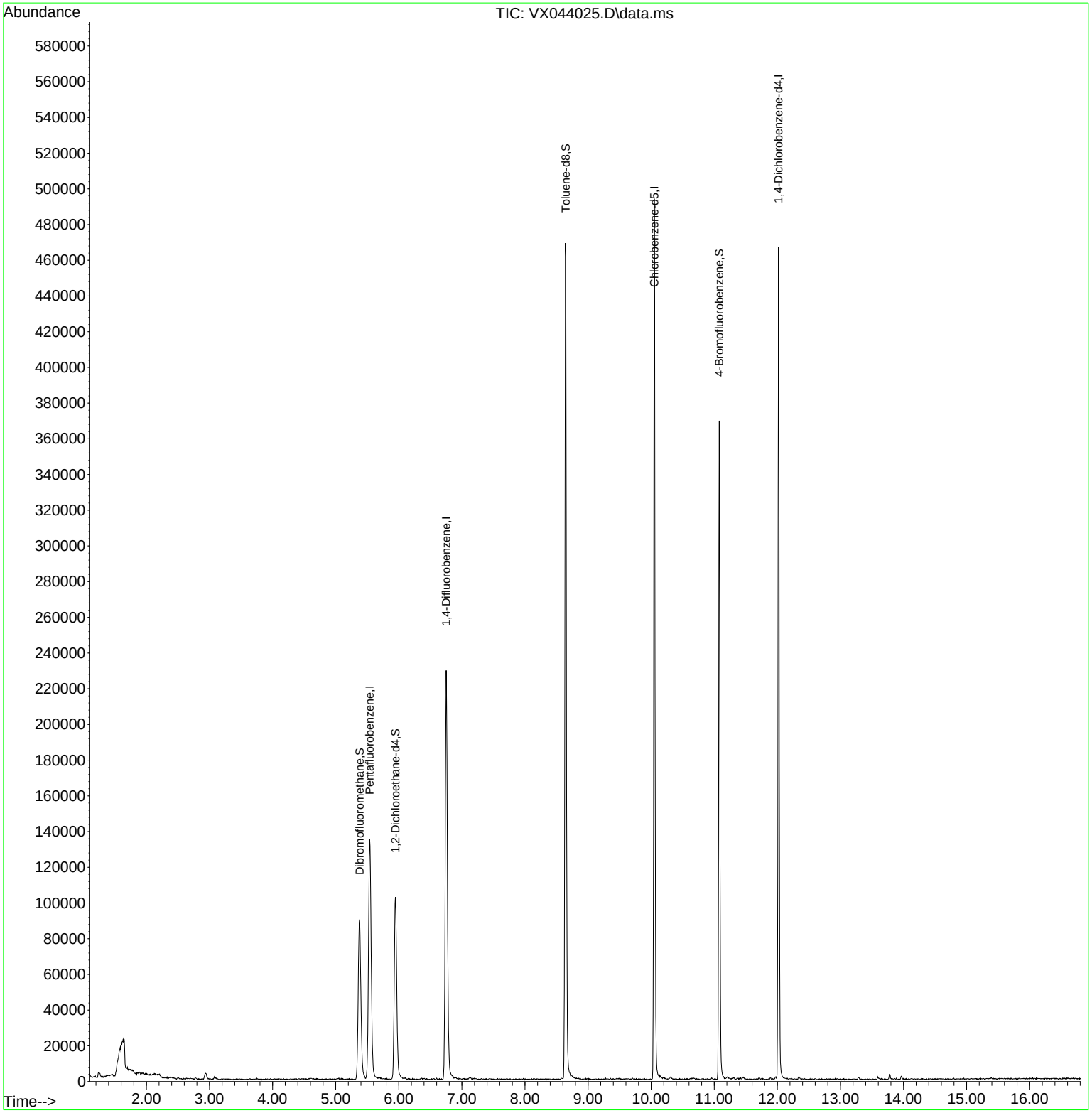
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	119396	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	228047	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	207542	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	87354	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	100927	49.284	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.560%		
35) Dibromofluoromethane	5.379	113	76981	47.242	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.480%		
50) Toluene-d8	8.647	98	280743	49.980	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.960%		
62) 4-Bromofluorobenzene	11.079	95	94181	49.267	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	98.540%		
Target Compounds						Qvalue

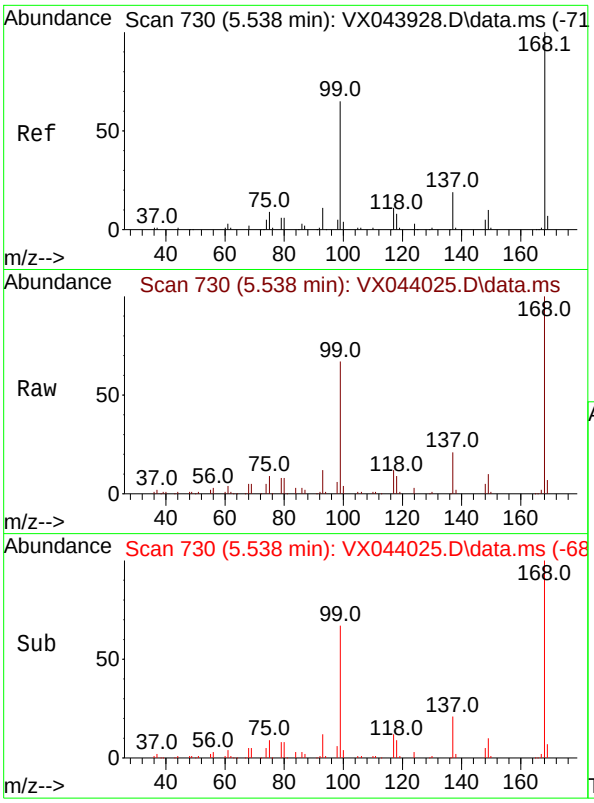
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044025.D
Acq On : 27 Nov 2024 09:15
Operator : JC/MD
Sample : VX1127MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1127MBL01

Quant Time: Nov 28 00:39:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration



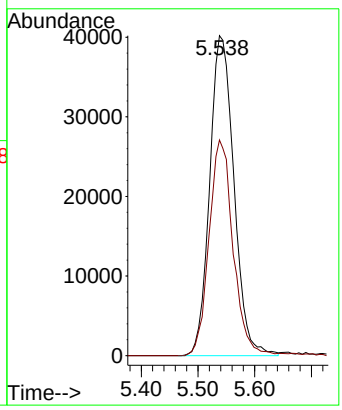


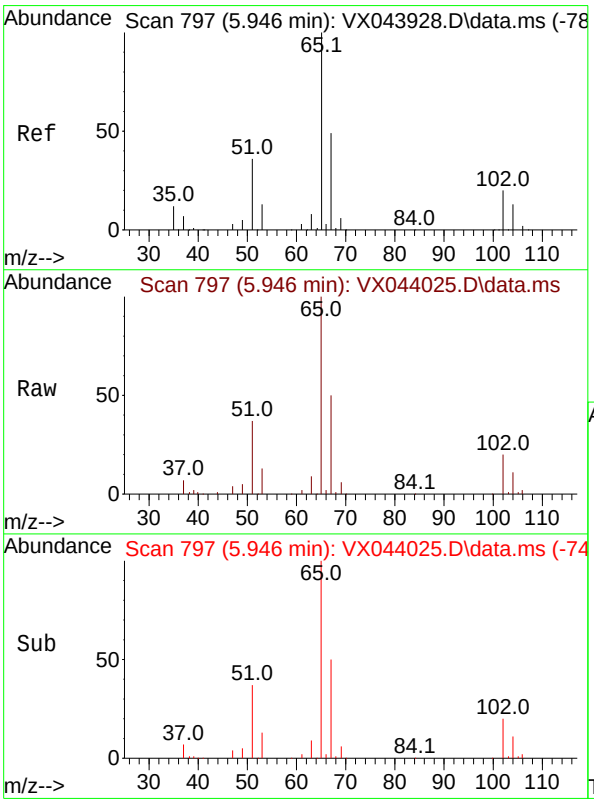
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044025.D
Acq: 27 Nov 2024 09:15

Instrument :
MSVOA_X
ClientSampleId :
VX1127MBL01

Tgt Ion:168 Resp: 119396

Ion	Ratio	Lower	Upper
168	100		
99	67.4	51.8	77.8

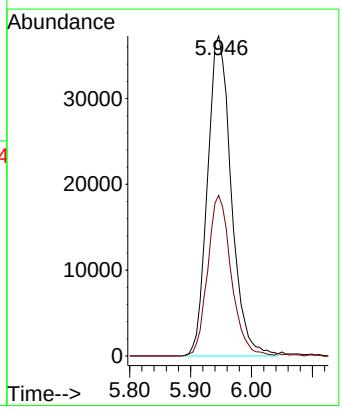


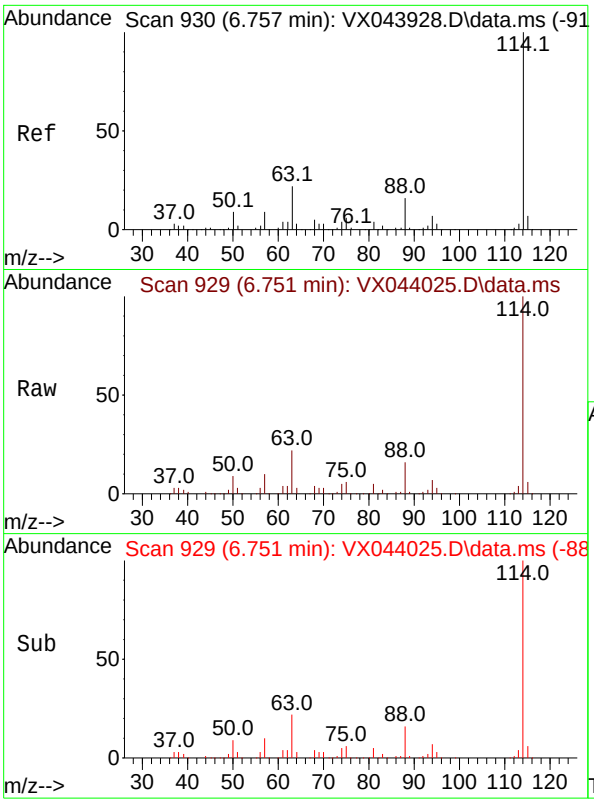


#33
1,2-Dichloroethane-d4
Concen: 49.284 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.000 min
Lab File: VX044025.D
Acq: 27 Nov 2024 09:15

Tgt Ion: 65 Resp: 100927

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	100.8



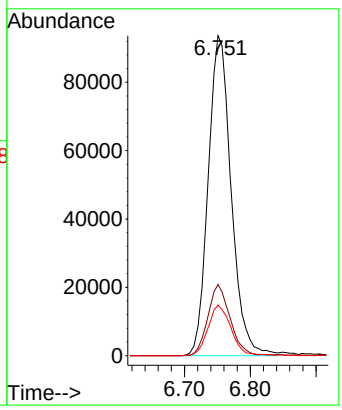


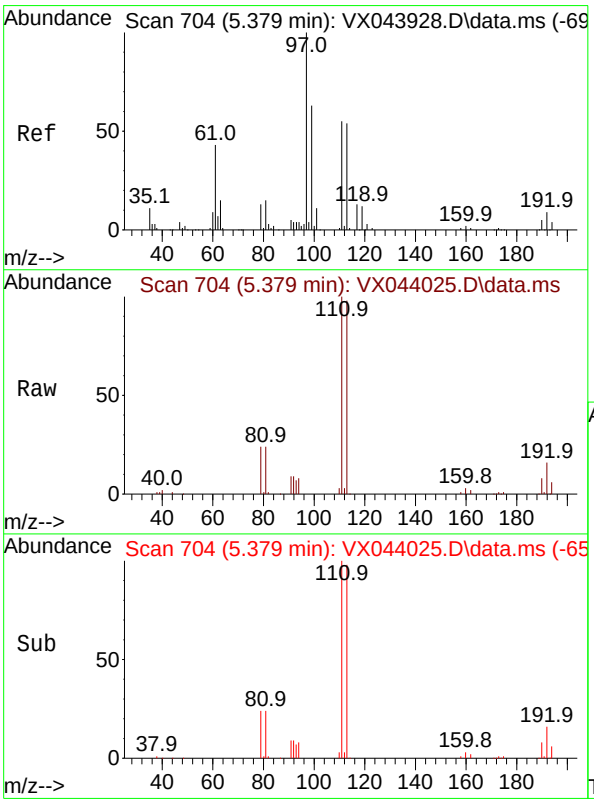
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. -0.006 min
Lab File: VX044025.D
Acq: 27 Nov 2024 09:15

Instrument :
MSVOA_X
ClientSampleId :
VX1127MBL01

Tgt Ion:114 Resp: 228047

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	44.0
88	15.8	0.0	32.4

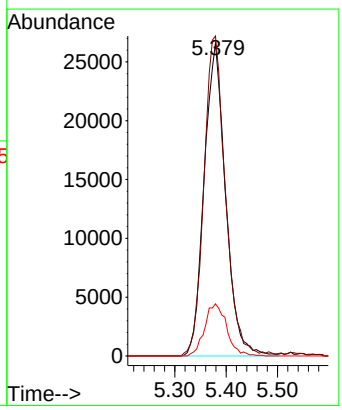


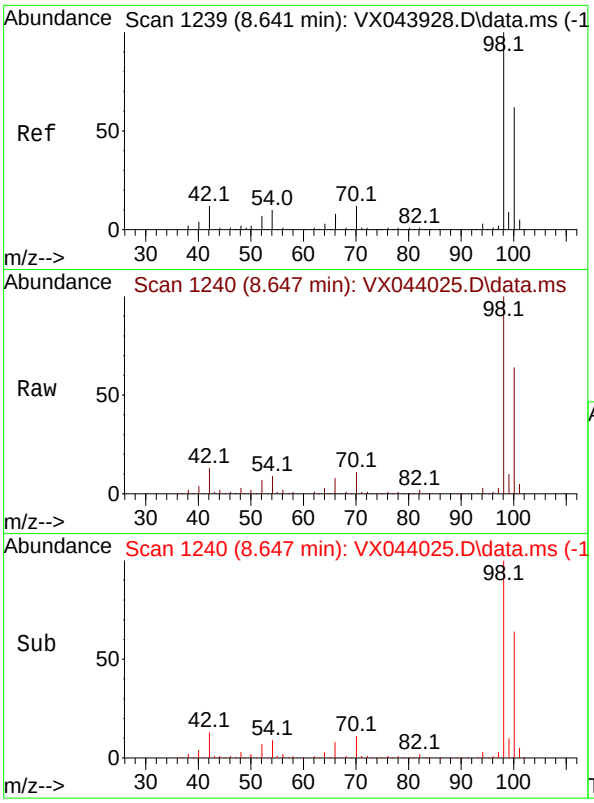


#35
Dibromofluoromethane
Concen: 47.242 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044025.D
Acq: 27 Nov 2024 09:15

Tgt Ion:113 Resp: 76981

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.0	121.4
192	17.1	13.0	19.6



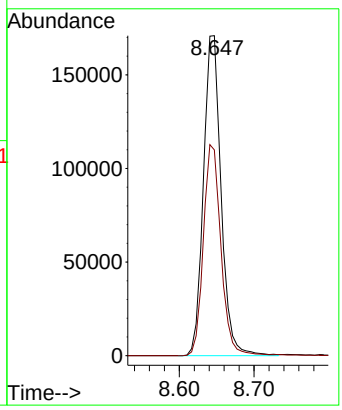


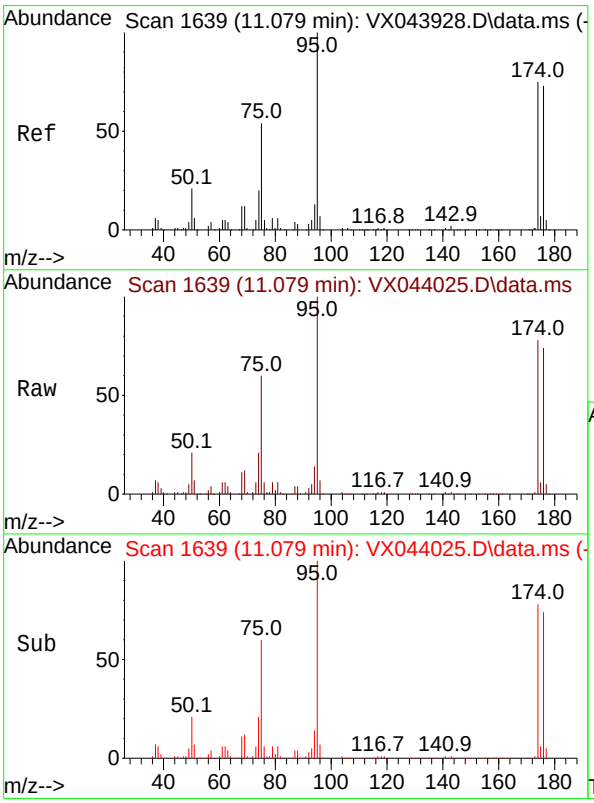
#50
Toluene-d8
Concen: 49.980 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044025.D
Acq: 27 Nov 2024 09:15

Instrument :
MSVOA_X
ClientSampleId :
VX1127MBL01

Tgt Ion: 98 Resp: 280743

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.6	79.0

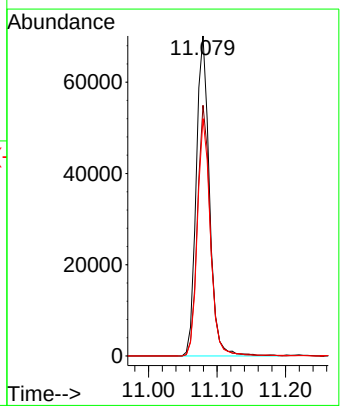


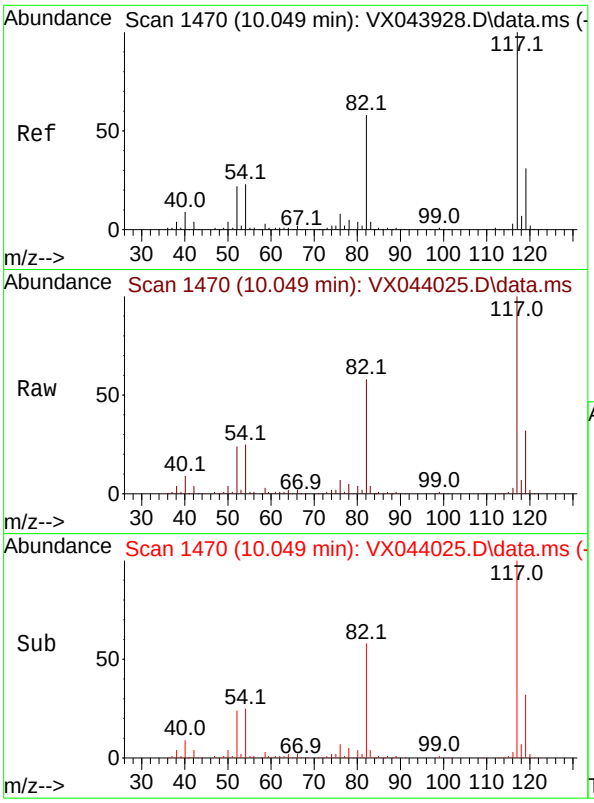


#62
4-Bromofluorobenzene
Concen: 49.267 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044025.D
Acq: 27 Nov 2024 09:15

Tgt Ion: 95 Resp: 94181

Ion	Ratio	Lower	Upper
95	100		
174	76.7	0.0	150.4
176	73.2	0.0	146.0



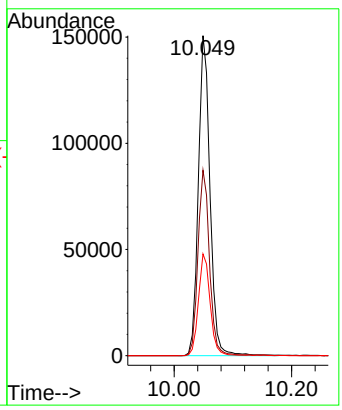


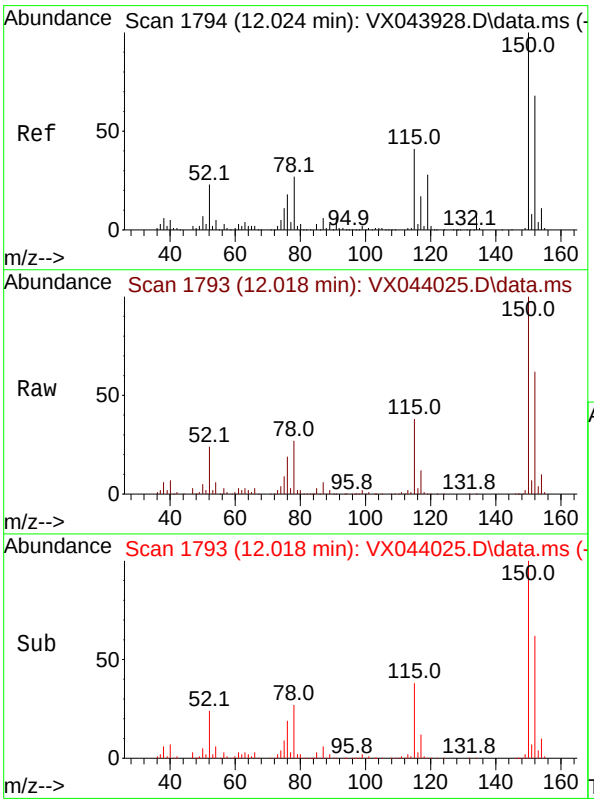
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044025.D
Acq: 27 Nov 2024 09:15

Instrument :
MSVOA_X
ClientSampleId :
VX1127MBL01

Tgt Ion:117 Resp: 207542

Ion	Ratio	Lower	Upper
117	100		
82	57.9	46.4	69.6
119	31.8	24.6	37.0

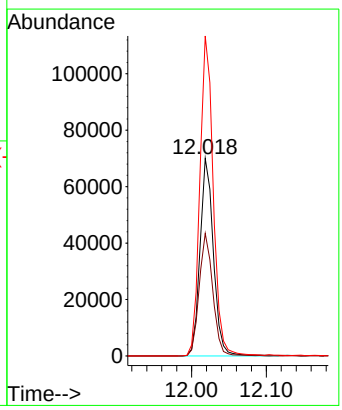




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX044025.D
Acq: 27 Nov 2024 09:15

Tgt Ion:152 Resp: 87354

Ion	Ratio	Lower	Upper
152	100		
115	63.1	45.4	136.2
150	161.2	0.0	353.0



Raw Data: **VY020402.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	
Client Sample ID:	VY1122SBL01	SDG No.:	P4960
Lab Sample ID:	VY1122SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020402.D	1		11/22/24 10:15	VY112224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
103-65-1	n-propylbenzene	0.64	U	0.64	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.64	U	0.64	5.00	ug/Kg
98-06-6	tert-Butylbenzene	0.67	U	0.67	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.40	U	1.40	5.00	ug/Kg
135-98-8	sec-Butylbenzene	0.67	U	0.67	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	0.58	U	0.58	5.00	ug/Kg
104-51-8	n-Butylbenzene	0.63	U	0.63	5.00	ug/Kg
91-20-3	Naphthalene	1.50	U	1.50	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.6		50 - 163	95%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		54 - 147	97%	SPK: 50
2037-26-5	Toluene-d8	47.6		58 - 134	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.3		29 - 146	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	161000	7.72			
540-36-3	1,4-Difluorobenzene	307000	8.622			
3114-55-4	Chlorobenzene-d5	269000	11.426			
3855-82-1	1,4-Dichlorobenzene-d4	94800	13.359			

Raw Data: **VY020402.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	
Client Sample ID:	VY1122SBL01	SDG No.:	P4960
Lab Sample ID:	VY1122SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020402.D	1		11/22/24 10:15	VY112224

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_Y\Data\VY112224\
Data File : VY020402.D
Acq On : 22 Nov 2024 10:15
Operator : SY/MD
Sample : VY1122SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

Quant Time: Nov 22 23:56:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.720	168	161234	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	306842	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	269008	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.359	152	94757	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	88239	47.635	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	95.280%		
35) Dibromofluoromethane	7.646	113	95193	48.381	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	96.760%		
50) Toluene-d8	10.115	98	368920	47.599	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	95.200%		
62) 4-Bromofluorobenzene	12.414	95	112970	45.341	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery =	90.680%		
Target Compounds						Qvalue

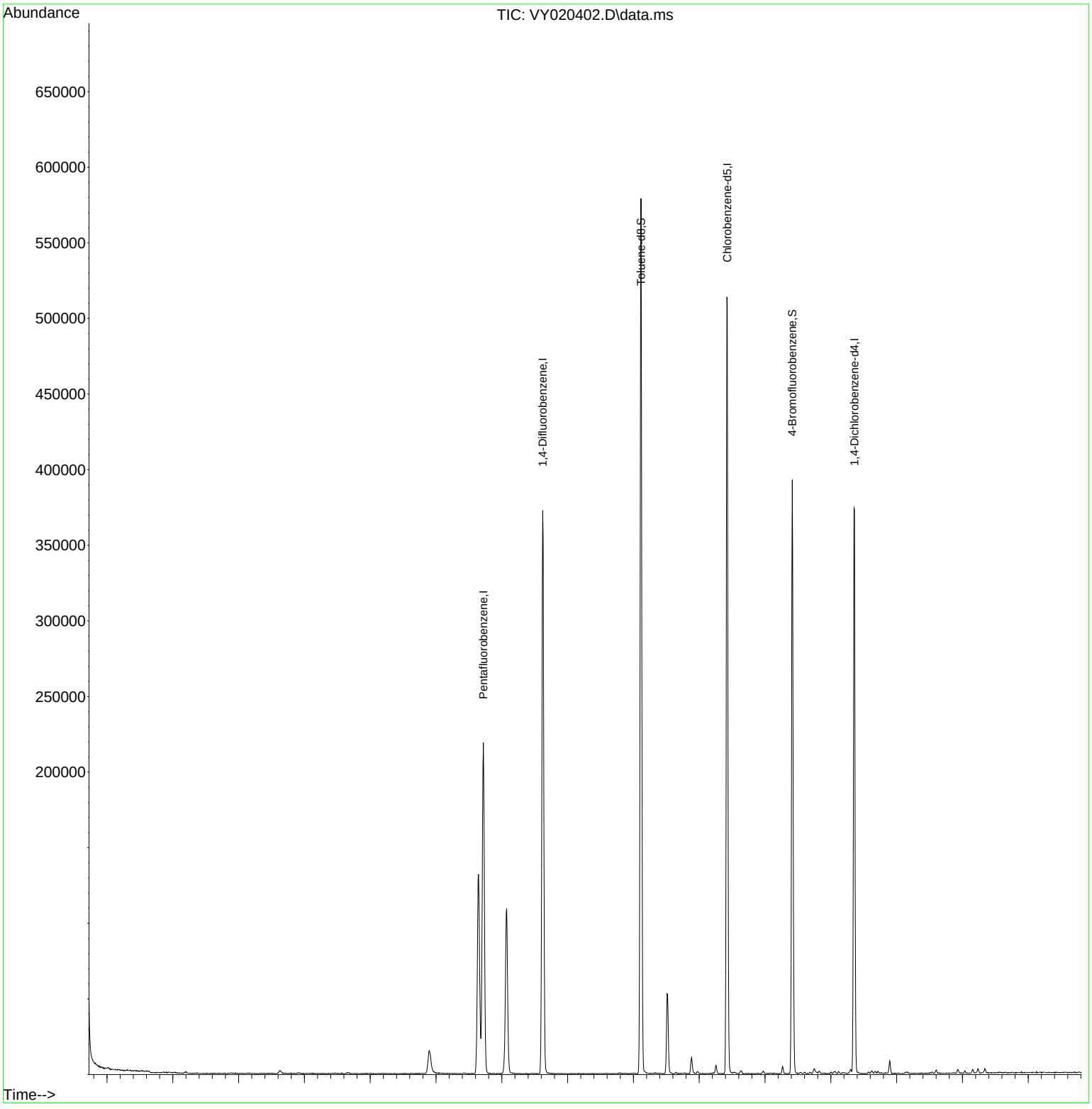
(#) = qualifier out of range (m) = manual integration (+) = signals summed

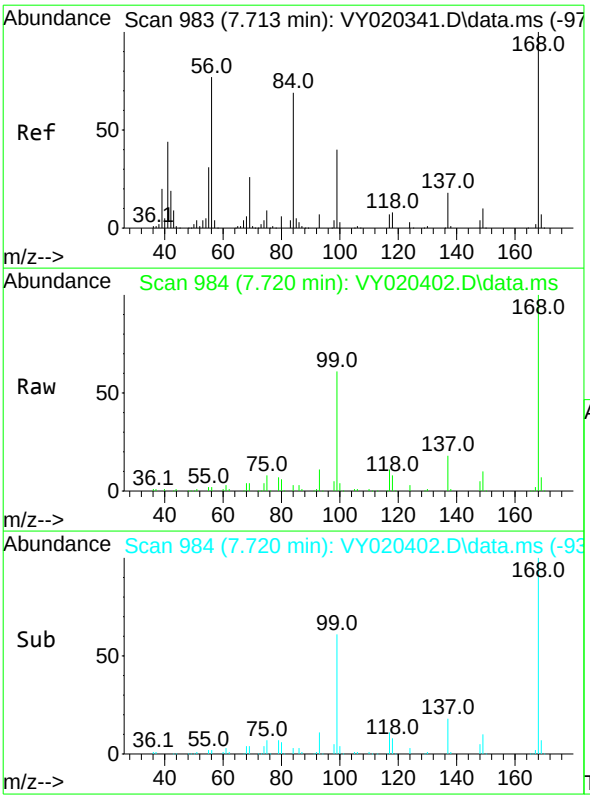
Sample Results: **VY020402.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020402.D
Acq On : 22 Nov 2024 10:15
Operator : SY/MD
Sample : VY1122SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

Quant Time: Nov 22 23:56:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



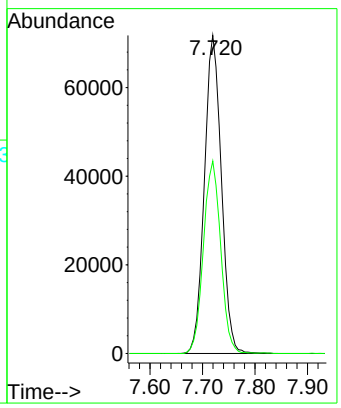


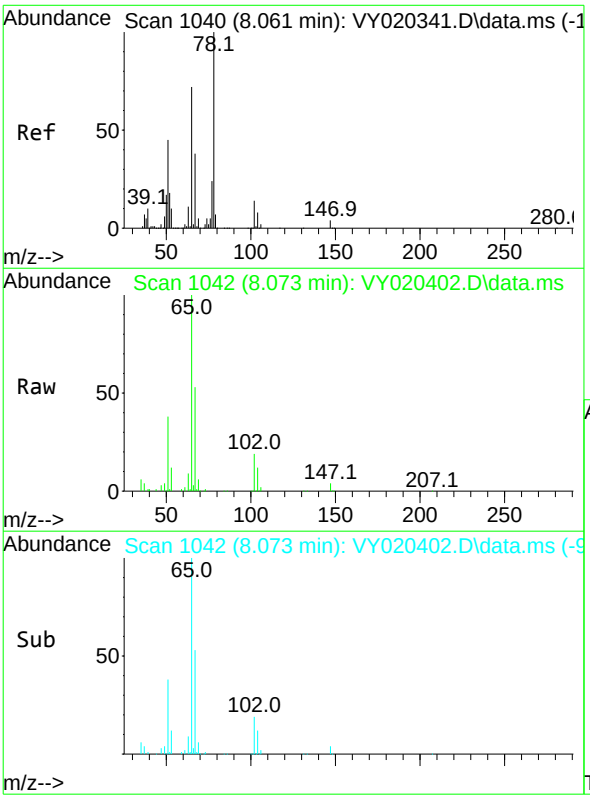
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

Tgt Ion:168 Resp: 161234

Ion	Ratio	Lower	Upper
168	100		
99	60.5	46.6	69.8

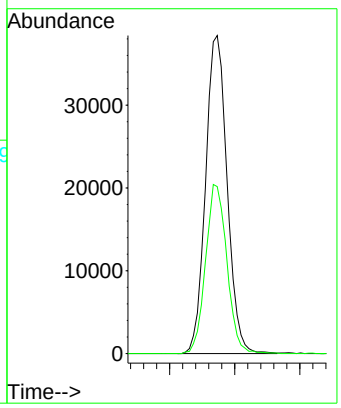


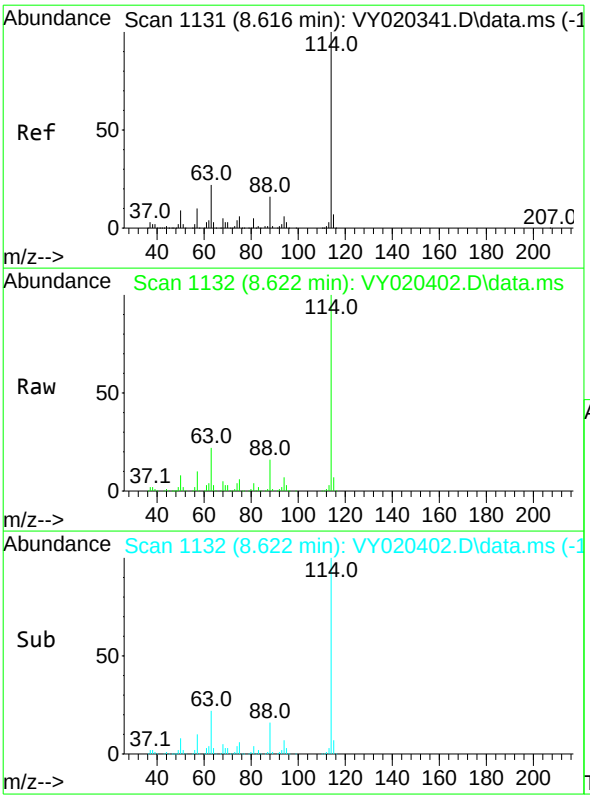


#33
1,2-Dichloroethane-d4
Concen: 47.635 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Tgt Ion: 65 Resp: 88239

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	105.8



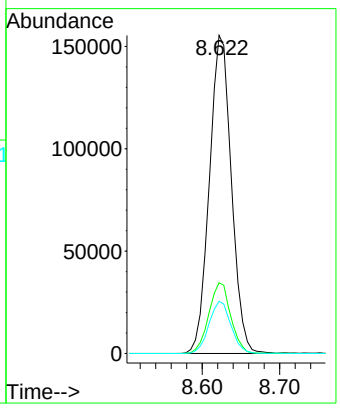


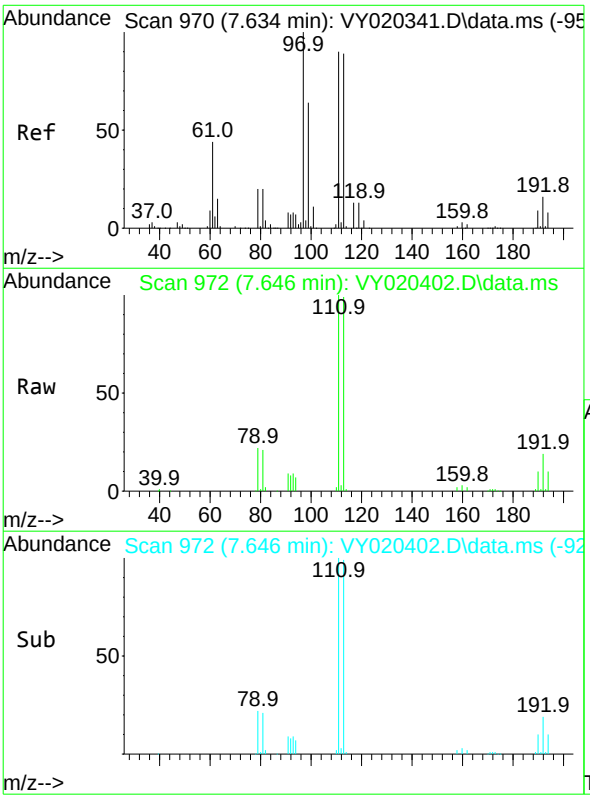
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

Tgt Ion:114 Resp: 306842

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.8
88	16.4	0.0	32.0

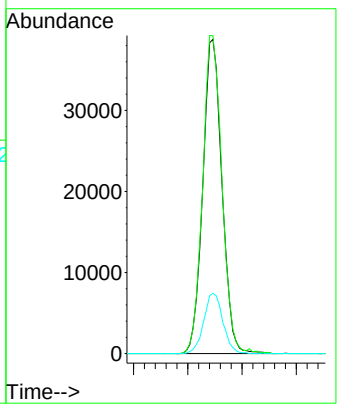


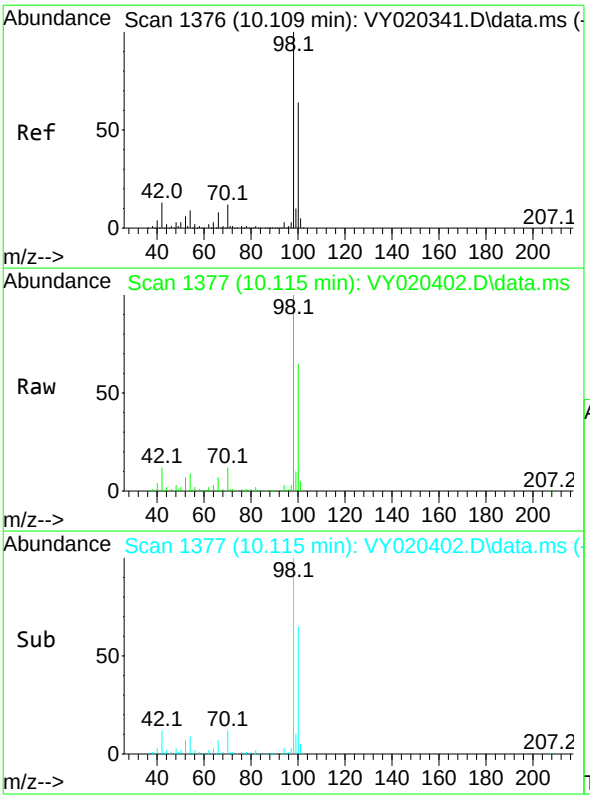


#35
Dibromofluoromethane
Concen: 48.381 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.012 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Tgt Ion:113 Resp: 95193

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.4	122.0
192	19.2	15.1	22.7



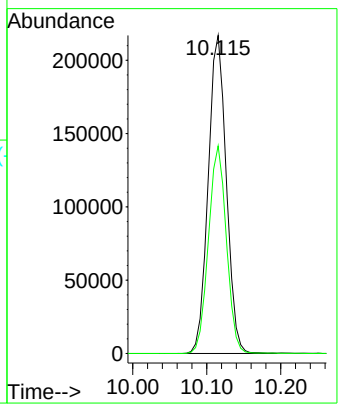


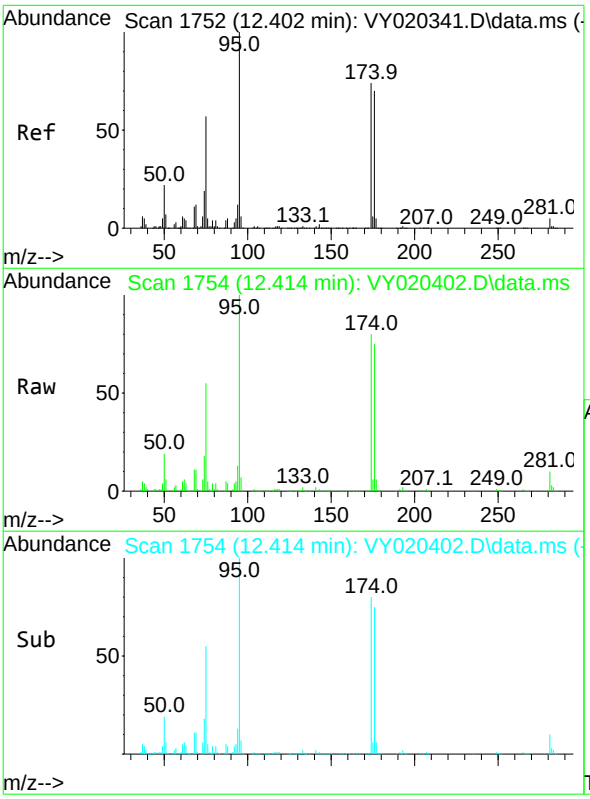
#50
Toluene-d8
Concen: 47.599 ug/l
RT: 10.115 min Scan# 13
Delta R.T. 0.006 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

Tgt Ion: 98 Resp: 368920

Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.3	76.9

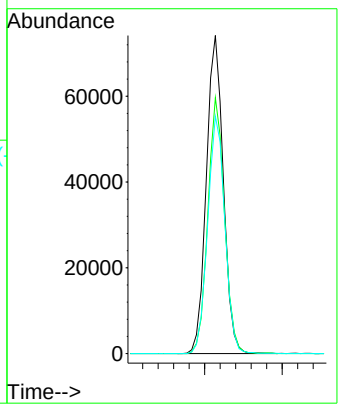


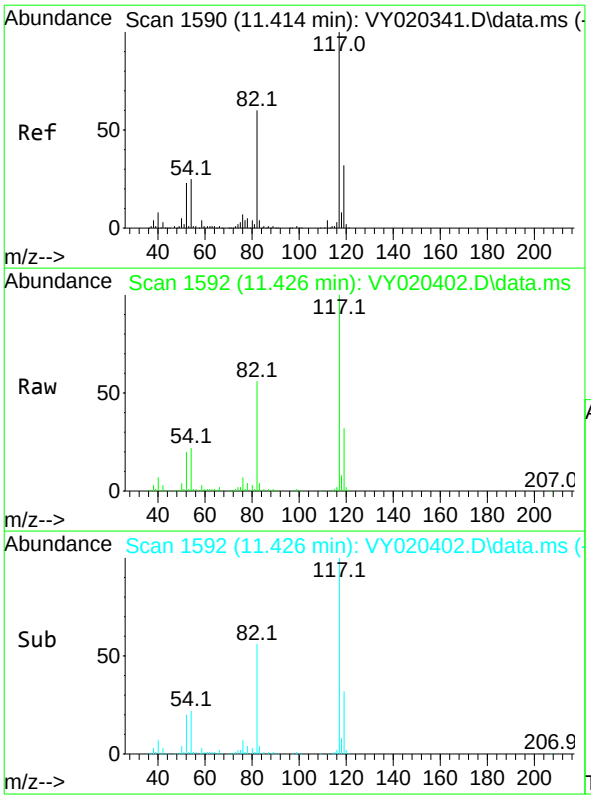


#62
4-Bromofluorobenzene
Concen: 45.341 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.012 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Tgt Ion: 95 Resp: 112970

Ion	Ratio	Lower	Upper
95	100		
174	78.8	0.0	156.8
176	75.2	0.0	152.0



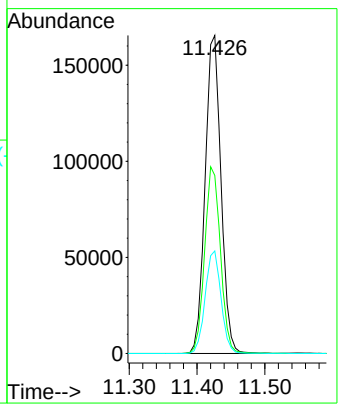


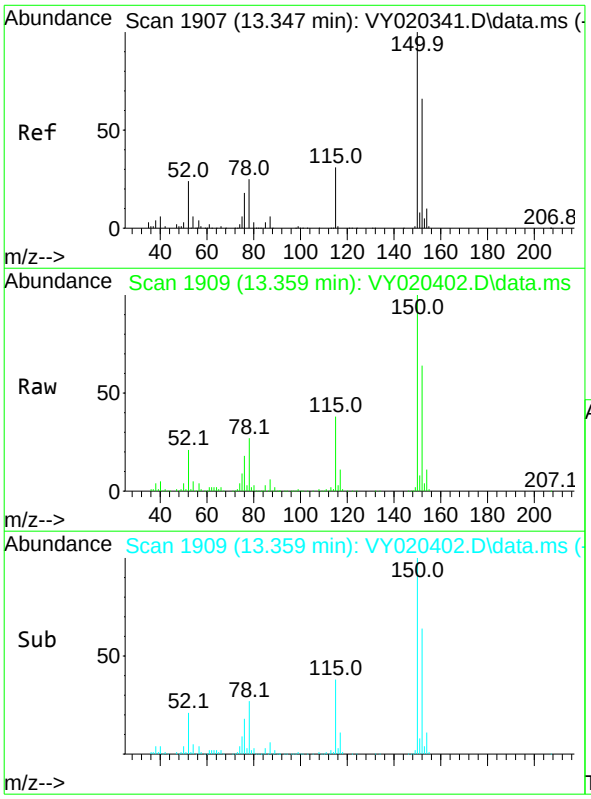
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 15
Delta R.T. 0.012 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBL01

Tgt Ion:117 Resp: 269008

Ion	Ratio	Lower	Upper
117	100		
82	56.0	48.2	72.4
119	32.2	25.8	38.8

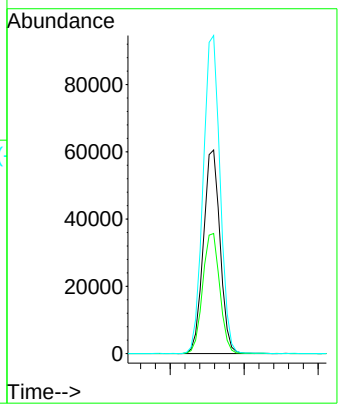




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.012 min
Lab File: VY020402.D
Acq: 22 Nov 2024 10:15

Tgt Ion:152 Resp: 94757

Ion	Ratio	Lower	Upper
152	100		
115	60.4	30.0	90.0
150	158.3	0.0	348.2



Raw Data: **VY020424.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	
Client Sample ID:	VY1125SBL01	SDG No.:	P4960
Lab Sample ID:	VY1125SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020424.D	1		11/25/24 10:17	VY112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
103-65-1	n-propylbenzene	0.64	U	0.64	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.64	U	0.64	5.00	ug/Kg
98-06-6	tert-Butylbenzene	0.67	U	0.67	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.40	U	1.40	5.00	ug/Kg
135-98-8	sec-Butylbenzene	0.67	U	0.67	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	0.58	U	0.58	5.00	ug/Kg
104-51-8	n-Butylbenzene	0.63	U	0.63	5.00	ug/Kg
91-20-3	Naphthalene	1.50	U	1.50	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.0		50 - 163	102%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		54 - 147	97%	SPK: 50
2037-26-5	Toluene-d8	48.2		58 - 134	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		29 - 146	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	137000	7.719			
540-36-3	1,4-Difluorobenzene	258000	8.622			
3114-55-4	Chlorobenzene-d5	236000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	84400	13.352			

Raw Data: **VY020424.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	
Client Sample ID:	VY1125SBL01	SDG No.:	P4960
Lab Sample ID:	VY1125SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020424.D	1		11/25/24 10:17	VY112524

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: **VY020424.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020424.D
Acq On : 25 Nov 2024 10:17
Operator : SY/MD
Sample : VY1125SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1125SBL01

Quant Time: Nov 26 00:42:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

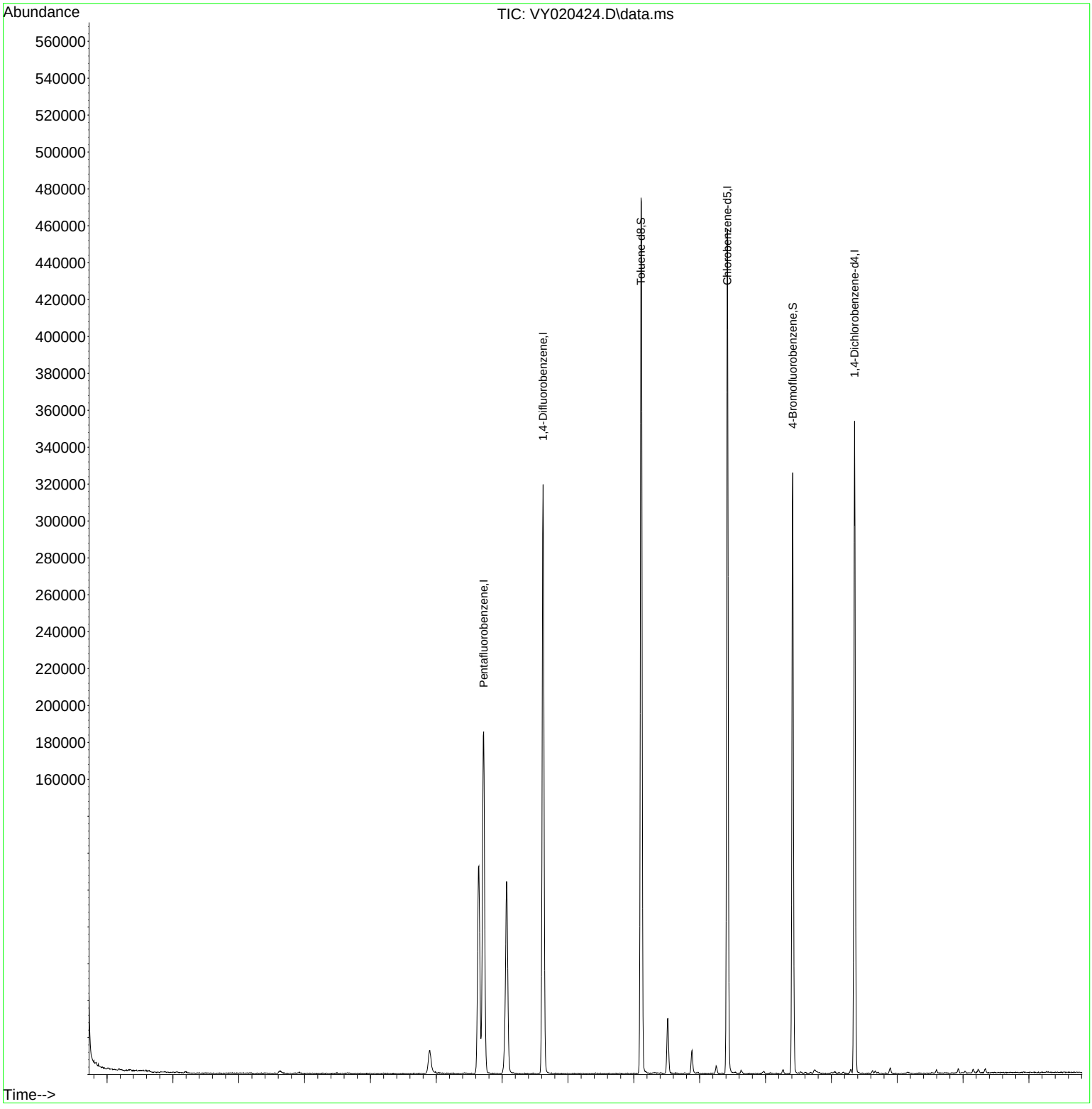
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	137386	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	258494	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	236202	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	84429	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	80514	51.010	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.020%			
35) Dibromofluoromethane	7.640	113	80443	48.532	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.060%			
50) Toluene-d8	10.109	98	314422	48.155	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.300%			
62) 4-Bromofluorobenzene	12.414	95	96283	45.871	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery = 91.740%			
Target Compounds						Qvalue

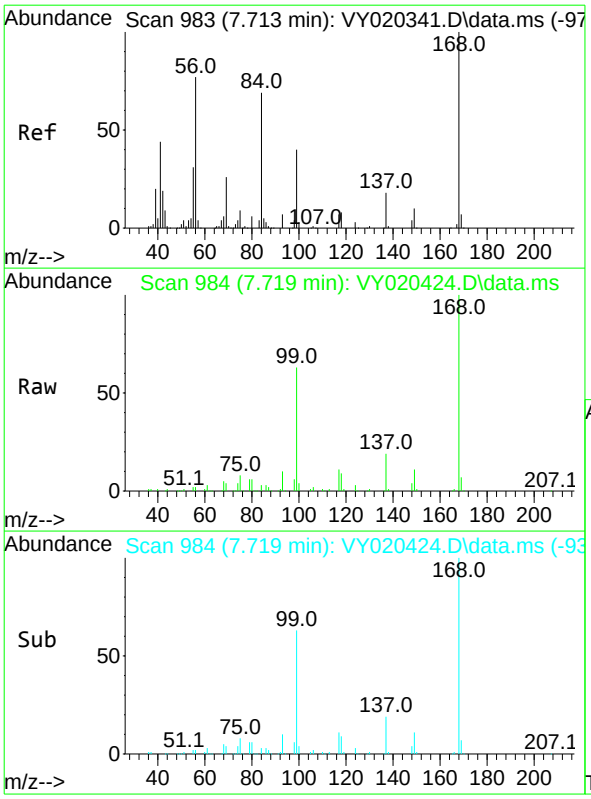
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020424.D
Acq On : 25 Nov 2024 10:17
Operator : SY/MD
Sample : VY1125SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1125SBL01

Quant Time: Nov 26 00:42:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



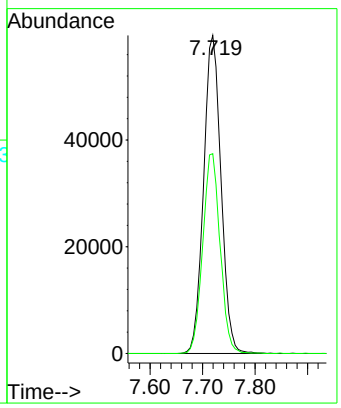


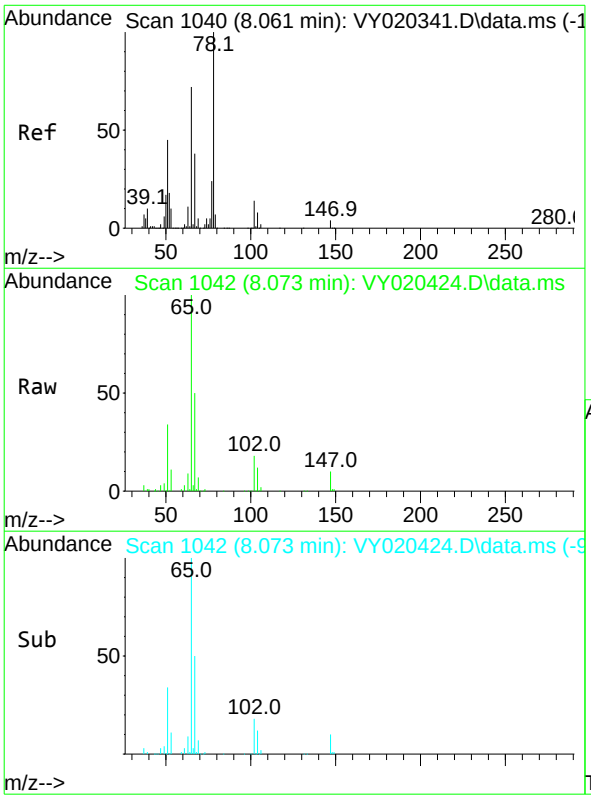
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020424.D
Acq: 25 Nov 2024 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VY1125SBL01

Tgt Ion:168 Resp: 137386

Ion	Ratio	Lower	Upper
168	100		
99	62.8	46.6	69.8

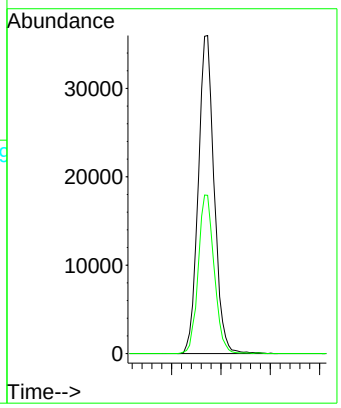


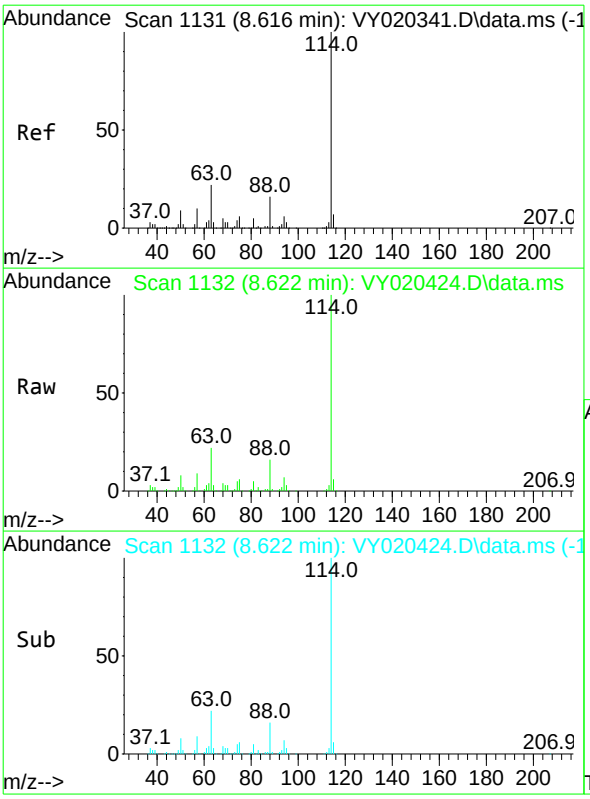


#33
1,2-Dichloroethane-d4
Concen: 51.010 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY020424.D
Acq: 25 Nov 2024 10:17

Tgt Ion: 65 Resp: 80514

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	105.8



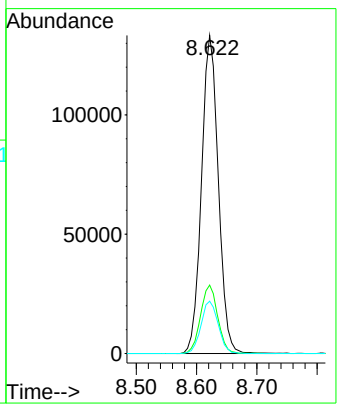


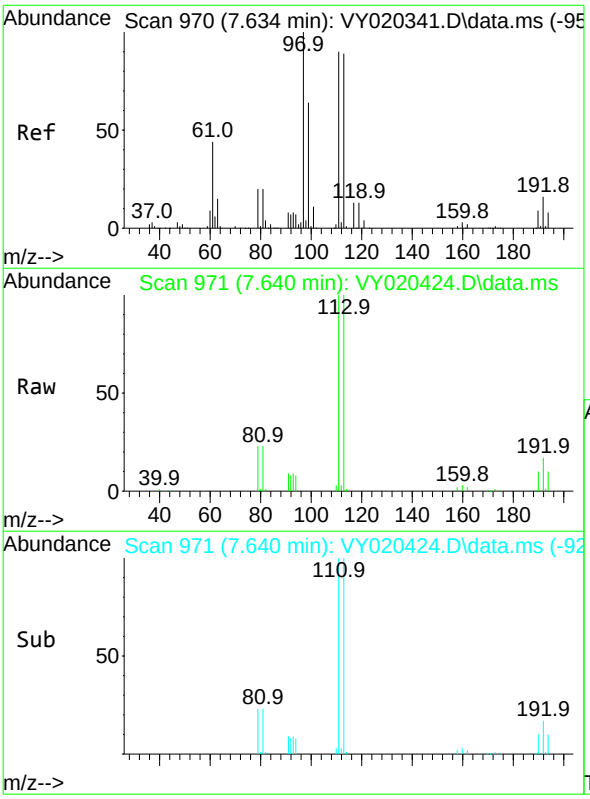
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY020424.D
Acq: 25 Nov 2024 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VY1125SBL01

Tgt Ion:114 Resp: 258494

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	44.8
88	16.4	0.0	32.0

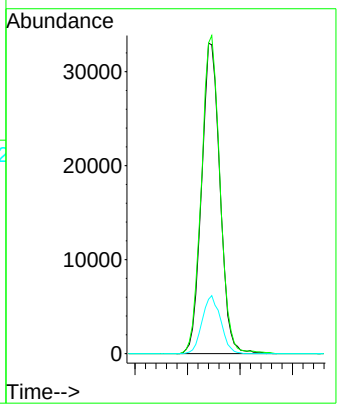


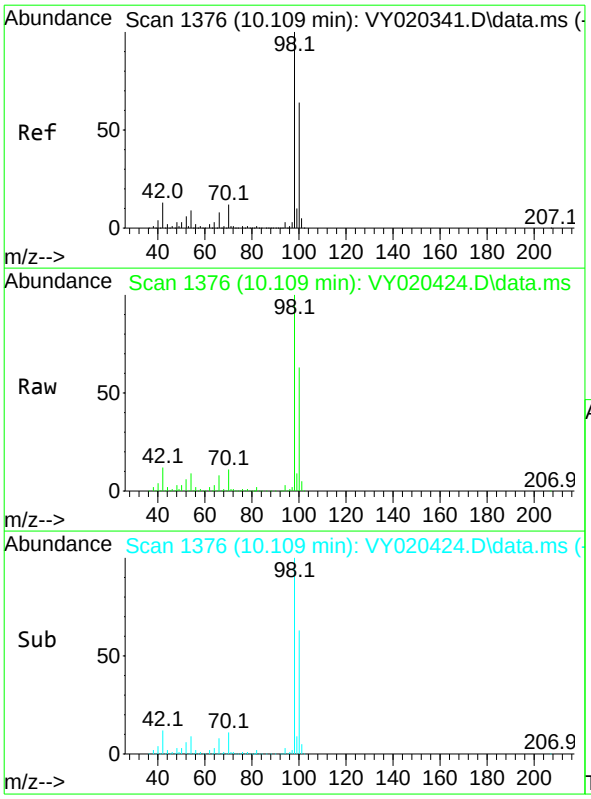


#35
Dibromofluoromethane
Concen: 48.532 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020424.D
Acq: 25 Nov 2024 10:17

Tgt Ion:113 Resp: 80443

Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.4	122.0
192	18.8	15.1	22.7



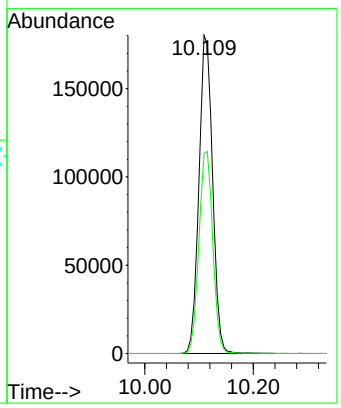


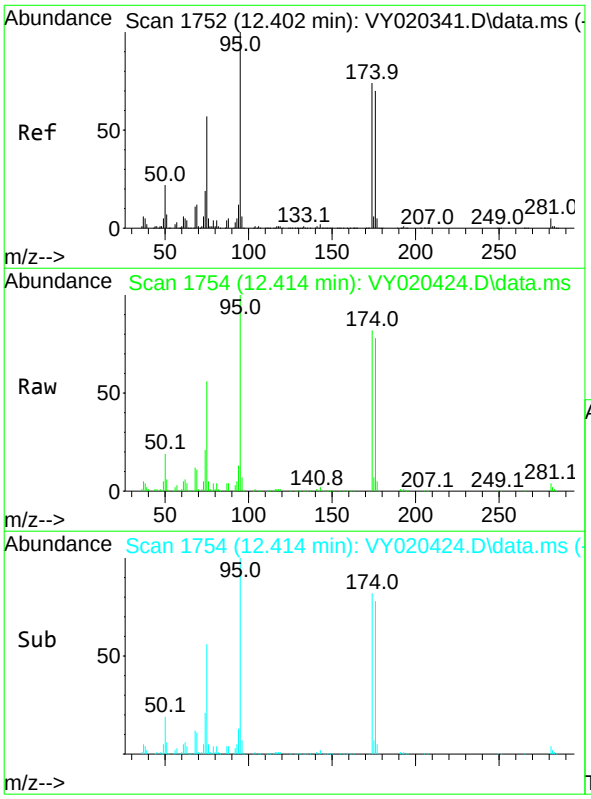
#50
Toluene-d8
Concen: 48.155 ug/l
RT: 10.109 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY020424.D
Acq: 25 Nov 2024 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VY1125SBL01

Tgt Ion: 98 Resp: 314422

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.3	76.9

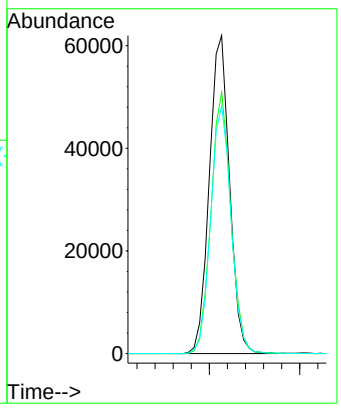


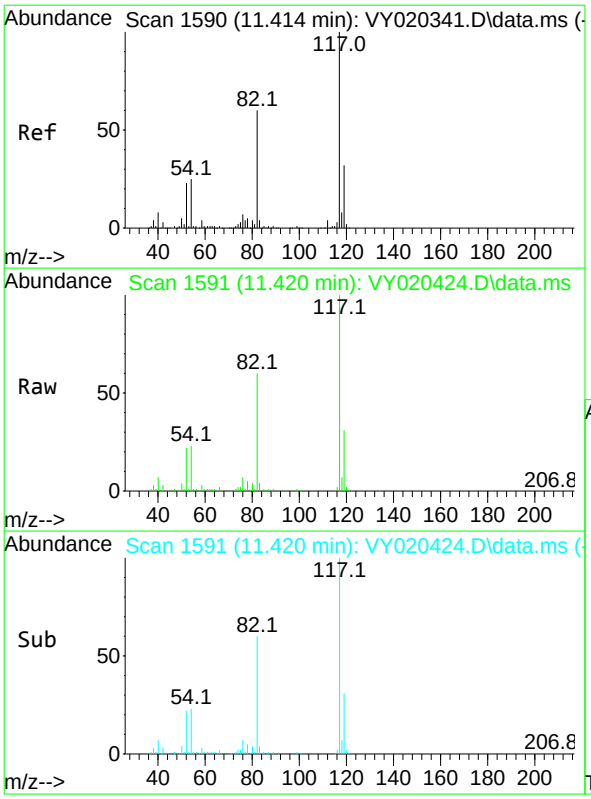


#62
4-Bromofluorobenzene
Concen: 45.871 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.012 min
Lab File: VY020424.D
Acq: 25 Nov 2024 10:17

Tgt Ion: 95 Resp: 96283

Ion	Ratio	Lower	Upper
95	100		
174	81.0	0.0	156.8
176	78.3	0.0	152.0



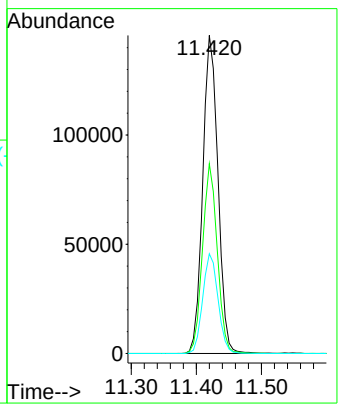


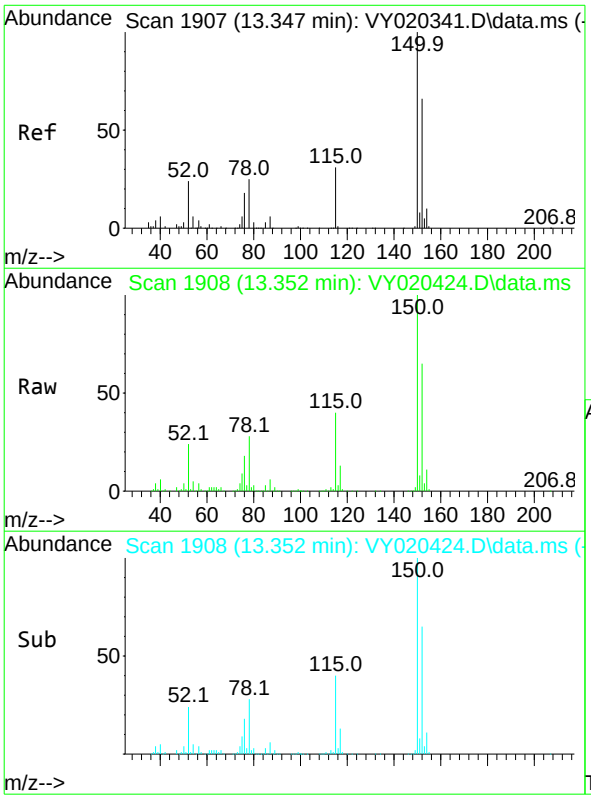
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020424.D
Acq: 25 Nov 2024 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VY1125SBL01

Tgt Ion:117 Resp: 236202

Ion	Ratio	Lower	Upper
117	100		
82	59.7	48.2	72.4
119	31.4	25.8	38.8

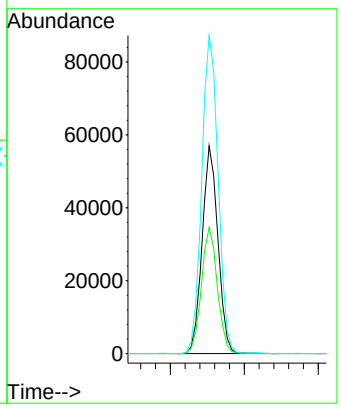




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020424.D
Acq: 25 Nov 2024 10:17

Tgt Ion:152 Resp: 84429

Ion	Ratio	Lower	Upper
152	100		
115	61.1	30.0	90.0
150	158.8	0.0	348.2



Raw Data: **VX044027.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	
Client Sample ID:	VX1127MBS01	SDG No.:	P4960
Lab Sample ID:	VX1127MBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044027.D	1		11/27/24 10:01	VX112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2200		67.0	500	ug/Kg
71-43-2	Benzene	2100		72.0	500	ug/Kg
108-88-3	Toluene	2100		67.0	500	ug/Kg
100-41-4	Ethyl Benzene	2100		62.0	500	ug/Kg
179601-23-1	m/p-Xylenes	4100		140	1000	ug/Kg
95-47-6	o-Xylene	2100		70.0	500	ug/Kg
98-82-8	Isopropylbenzene	2200		67.0	500	ug/Kg
103-65-1	n-propylbenzene	2200		64.0	500	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2200		64.0	500	ug/Kg
98-06-6	tert-Butylbenzene	2200		67.0	500	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2200		140	500	ug/Kg
135-98-8	sec-Butylbenzene	2100		67.0	500	ug/Kg
99-87-6	p-Isopropyltoluene	2200		58.0	500	ug/Kg
104-51-8	n-Butylbenzene	2100		63.0	500	ug/Kg
91-20-3	Naphthalene	2000		150	500	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.2		50 - 163	112%	SPK: 50
1868-53-7	Dibromofluoromethane	54.0		54 - 147	108%	SPK: 50
2037-26-5	Toluene-d8	52.4		58 - 134	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.9		29 - 146	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	117000	5.544			
540-36-3	1,4-Difluorobenzene	213000	6.757			
3114-55-4	Chlorobenzene-d5	181000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	80900	12.018			

Raw Data: **VX044027.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	
Client Sample ID:	VX1127MBS01	SDG No.:	P4960
Lab Sample ID:	VX1127MBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044027.D	1		11/27/24 10:01	VX112724

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: **VX044027.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044027.D
Acq On : 27 Nov 2024 10:01
Operator : JC/MD
Sample : VX1127MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 28 00:40:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1127MBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/02/2024
Supervised By :Mahesh Dadoda 12/02/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	117049	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	213408	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	180534	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	80899	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	112812	56.193	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.380%			
35) Dibromofluoromethane	5.379	113	82300	53.970	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.940%			
50) Toluene-d8	8.647	98	275678	52.445	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.900%			
62) 4-Bromofluorobenzene	11.079	95	94593	52.877	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.760%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	29493	19.890	ug/l	96
3) Chloromethane	1.294	50	32194	20.632	ug/l	97
4) Vinyl Chloride	1.374	62	33374	20.109	ug/l	96
5) Bromomethane	1.593	94	22254	21.796	ug/l	99
6) Chloroethane	1.666	64	23375	23.114	ug/l	93
7) Trichlorofluoromethane	1.874	101	58126	19.589	ug/l	100
8) Diethyl Ether	2.136	74	22576	20.874	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	29728	21.003	ug/l	98
10) Methyl Iodide	2.447	142	37751	21.355	ug/l	98
11) Tert butyl alcohol	2.995	59	33177	102.959	ug/l	98
12) 1,1-Dichloroethene	2.313	96	27113	20.102	ug/l	98
13) Acrolein	2.233	56	36531	107.555	ug/l	97
14) Allyl chloride	2.654	41	46166	20.948	ug/l	99
15) Acrylonitrile	3.062	53	83081	105.800	ug/l	98
16) Acetone	2.380	43	97031	105.232	ug/l	100
17) Carbon Disulfide	2.502	76	43931	15.791	ug/l	99
18) Methyl Acetate	2.703	43	44612	20.776	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	106173	21.680	ug/l	100
20) Methylene Chloride	2.782	84	33044	21.118	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	29589	21.249	ug/l	96
22) Diisopropyl ether	3.757	45	105456	22.378	ug/l	90
23) Vinyl Acetate	3.715	43	432700	107.336	ug/l	99
24) 1,1-Dichloroethane	3.605	63	59892	22.030	ug/l	97
25) 2-Butanone	4.556	43	122186	102.698	ug/l	96
26) 2,2-Dichloropropane	4.465	77	51281	20.887	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	36647	21.291	ug/l	100
28) Bromochloromethane	4.897	49	28002	23.400	ug/l	96
29) Tetrahydrofuran	5.007	42	72556	99.474	ug/l	100
30) Chloroform	5.086	83	63871	21.844	ug/l	90
31) Cyclohexane	5.458	56	43435	19.412	ug/l	93
32) 1,1,1-Trichloroethane	5.379	97	53013	21.024	ug/l	97
36) 1,1-Dichloropropene	5.690	75	39283	20.673	ug/l	97
37) Ethyl Acetate	4.715	43	46399	19.671	ug/l	99
38) Carbon Tetrachloride	5.672	117	41666	19.514	ug/l	99
39) Methylcyclohexane	7.373	83	47225	19.130	ug/l	91
40) Benzene	6.031	78	124383	21.014	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044027.D
Acq On : 27 Nov 2024 10:01
Operator : JC/MD
Sample : VX1127MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 28 00:40:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1127MBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/02/2024
Supervised By :Mahesh Dadoda 12/02/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.916	41	24244	20.082 ug/l	95
42) 1,2-Dichloroethane	6.086	62	50239	21.134 ug/l	99
43) Isopropyl Acetate	6.336	43	76328	20.333 ug/l	99
44) Trichloroethene	7.123	130	29210	17.432 ug/l	97
45) 1,2-Dichloropropane	7.427	63	31193	21.517 ug/l	98
46) Dibromomethane	7.580	93	23934	20.871 ug/l	98
47) Bromodichloromethane	7.818	83	43072	20.942 ug/l	95
48) Methyl methacrylate	7.690	41	35290	19.592 ug/l	99
49) 1,4-Dioxane	7.665	88	11406	355.483 ug/l #	78
51) 4-Methyl-2-Pentanone	8.574	43	230763	100.734 ug/l	100
52) Toluene	8.714	92	75350	21.269 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	41407	19.742 ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	45912	19.968 ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	30065	20.558 ug/l	97
56) Ethyl methacrylate	9.116	69	45194	19.841 ug/l	96
57) 1,3-Dichloropropane	9.305	76	54055	21.942 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	102776	81.694 ug/l	98
59) 2-Hexanone	9.433	43	175748	102.070 ug/l	99
60) Dibromochloromethane	9.519	129	28628	19.511 ug/l	99
61) 1,2-Dibromoethane	9.604	107	30890	20.889 ug/l	98
64) Tetrachloroethene	9.269	164	25362	21.305 ug/l	97
65) Chlorobenzene	10.079	112	80377	20.271 ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	27806	21.623 ug/l	98
67) Ethyl Benzene	10.189	91	141882	21.117 ug/l	99
68) m/p-Xylenes	10.299	106	103223	41.197 ug/l	99
69) o-Xylene	10.640	106	51685	21.127 ug/l	98
70) Styrene	10.652	104	85501	21.132 ug/l	99
71) Bromoform	10.799	173	16164	17.941 ug/l #	98
73) Isopropylbenzene	10.957	105	134811	21.679 ug/l	98
74) N-amyl acetate	10.841	43	59477	20.646 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	47230	22.181 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	37329m	21.041 ug/l	
77) Bromobenzene	11.195	156	31962	21.546 ug/l	98
78) n-propylbenzene	11.299	91	150068	21.607 ug/l	98
79) 2-Chlorotoluene	11.360	91	94225	21.455 ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	110920	21.680 ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	10986	16.898 ug/l	86
82) 4-Chlorotoluene	11.451	91	107003	21.581 ug/l	99
83) tert-Butylbenzene	11.713	119	110597	21.810 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	113599	22.302 ug/l	98
85) sec-Butylbenzene	11.890	105	132835	21.380 ug/l	99
86) p-Isopropyltoluene	12.006	119	110582	21.911 ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	55405	20.506 ug/l	97
88) 1,4-Dichlorobenzene	12.036	146	55852	20.276 ug/l	96
89) n-Butylbenzene	12.329	91	92633	20.818 ug/l	100
90) Hexachloroethane	12.536	117	15995	18.638 ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	57713	21.166 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	8177	19.165 ug/l	95
93) 1,2,4-Trichlorobenzene	13.591	180	32032	19.927 ug/l	96
94) Hexachlorobutadiene	13.725	225	13295	20.926 ug/l	96
95) Naphthalene	13.774	128	116464	20.126 ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	32158	19.765 ug/l	94

Sample Results: **VX044027.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044027.D
Acq On : 27 Nov 2024 10:01
Operator : JC/MD
Sample : VX1127MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 28 00:40:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1127MBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/02/2024
Supervised By :Mahesh Dadoda 12/02/2024

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

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

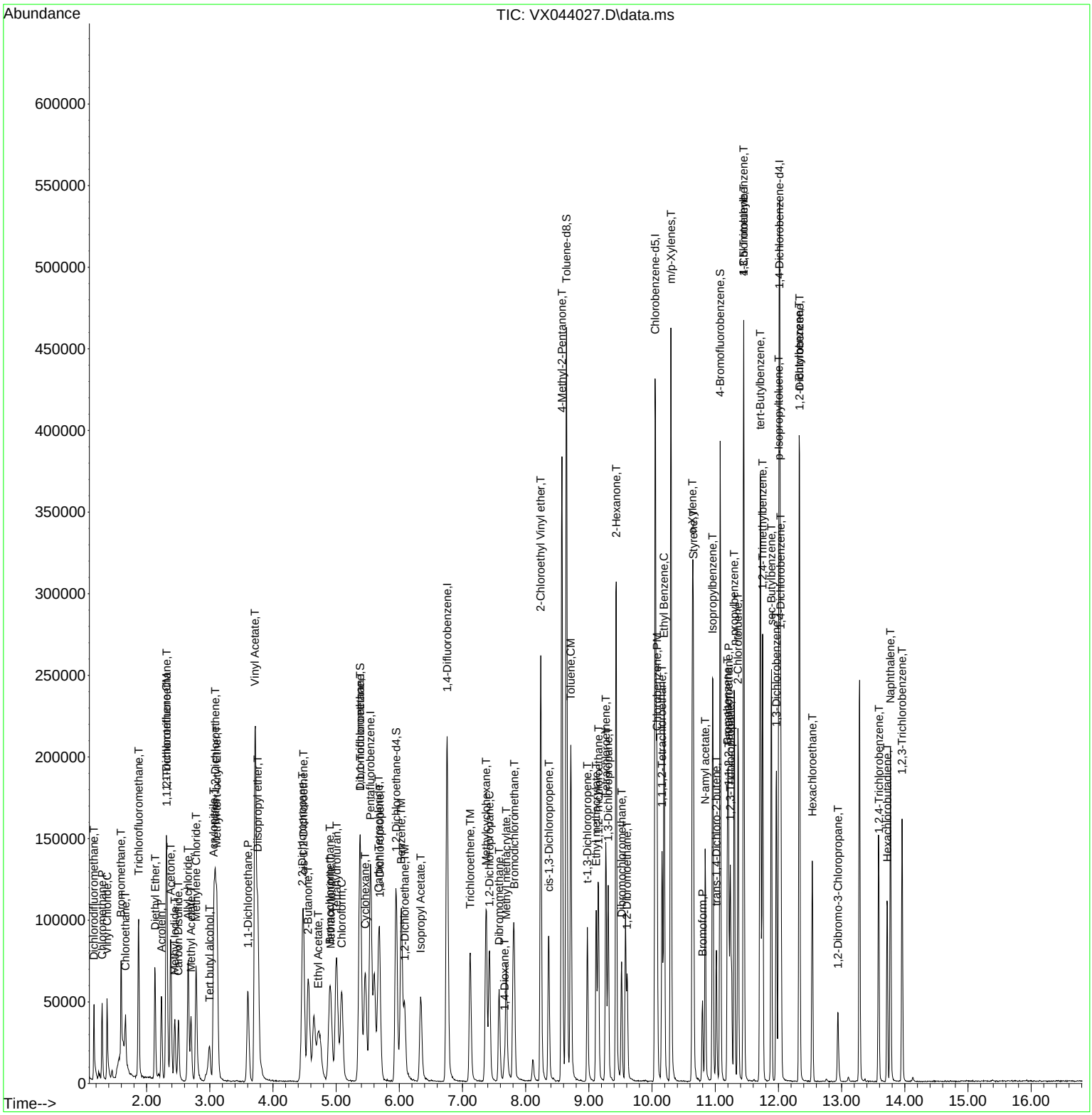
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112724\
Data File : VX044027.D
Acq On : 27 Nov 2024 10:01
Operator : JC/MD
Sample : VX1127MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 28 00:40:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1127MBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/02/2024
Supervised By :Mahesh Dadoda 12/02/2024



Raw Data: **VY020404.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	
Client Sample ID:	VY1122SBS02	SDG No.:	P4960
Lab Sample ID:	VY1122SBS02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020404.D	1		11/22/24 11:04	VY112224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	20.5		0.67	5.00	ug/Kg
71-43-2	Benzene	22.5		0.72	5.00	ug/Kg
108-88-3	Toluene	22.5		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	22.6		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	45.5		1.40	10.0	ug/Kg
95-47-6	o-Xylene	22.6		0.70	5.00	ug/Kg
98-82-8	Isopropylbenzene	22.9		0.67	5.00	ug/Kg
103-65-1	n-propylbenzene	22.0		0.64	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	22.7		0.64	5.00	ug/Kg
98-06-6	tert-Butylbenzene	22.6		0.67	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	22.6		1.40	5.00	ug/Kg
135-98-8	sec-Butylbenzene	20.5		0.67	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	22.1		0.58	5.00	ug/Kg
104-51-8	n-Butylbenzene	21.5		0.63	5.00	ug/Kg
91-20-3	Naphthalene	20.5		1.50	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.1		50 - 163	106%	SPK: 50
1868-53-7	Dibromofluoromethane	53.2		54 - 147	106%	SPK: 50
2037-26-5	Toluene-d8	52.9		58 - 134	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		29 - 146	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	182000	7.719			
540-36-3	1,4-Difluorobenzene	298000	8.622			
3114-55-4	Chlorobenzene-d5	247000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	113000	13.352			

Raw Data: **VY020404.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	
Client Sample ID:	VY1122SBS02	SDG No.:	P4960
Lab Sample ID:	VY1122SBS02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020404.D	1		11/22/24 11:04	VY112224

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: **VY020404.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020404.D
Acq On : 22 Nov 2024 11:04
Operator : SY/MD
Sample : VY1122SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBS02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/26/2024
Supervised By :Semsettin Yesilyurt 11/26/2024

Quant Time: Nov 22 23:57:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	7.719	168	182116	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	298132	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.420	117	246608	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	113255	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.067	65	111076	53.088 ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.180%		
35) Dibromofluoromethane	7.640	113	101764	53.232 ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.460%		
50) Toluene-d8	10.109	98	398203	52.878 ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.760%		
62) 4-Bromofluorobenzene	12.408	95	132161	54.593 ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 109.180%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.867	85	44685	25.278 ug/l	99
3) Chloromethane	2.074	50	43774	15.743 ug/l	95
4) Vinyl Chloride	2.214	62	42648	17.586 ug/l	96
5) Bromomethane	2.604	94	24646	20.349 ug/l	98
6) Chloroethane	2.745	64	25674	18.148 ug/l	97
7) Trichlorofluoromethane	3.068	101	76847	22.803 ug/l	100
8) Diethyl Ether	3.458	74	21142	19.883 ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.830	101	43231	21.540 ug/l	99
10) Methyl Iodide	4.013	142	52717	19.610 ug/l	94
11) Tert butyl alcohol	4.872	59	14325	87.581 ug/l	100
12) 1,1-Dichloroethene	3.799	96	41271	20.774 ug/l	99
13) Acrolein	3.665	56	16167	124.786 ug/l	99
14) Allyl chloride	4.397	41	72760	18.940 ug/l	95
15) Acrylonitrile	5.067	53	45278	96.329 ug/l	99
16) Acetone	3.879	43	47644	94.987 ug/l	92
17) Carbon Disulfide	4.116	76	130774	19.539 ug/l	100
18) Methyl Acetate	4.391	43	20951	17.919 ug/l	100
19) Methyl tert-butyl Ether	5.128	73	105998	20.539 ug/l	96
20) Methylene Chloride	4.628	84	43466	20.463 ug/l	95
21) trans-1,2-Dichloroethene	5.128	96	45023	20.405 ug/l	94
22) Diisopropyl ether	6.025	45	143258	18.922 ug/l	94
23) Vinyl Acetate	5.970	43	397626	93.983 ug/l	100
24) 1,1-Dichloroethane	5.927	63	85352	19.970 ug/l	99
25) 2-Butanone	6.909	43	65000	100.660 ug/l	99
26) 2,2-Dichloropropane	6.896	77	77236	21.864 ug/l	99
27) cis-1,2-Dichloroethene	6.902	96	52238	21.494 ug/l	98
28) Bromochloromethane	7.256	49	32981	18.335 ug/l	98
29) Tetrahydrofuran	7.268	42	37344	96.761 ug/l	99
30) Chloroform	7.433	83	87034	21.088 ug/l	99
31) Cyclohexane	7.713	56	80472	20.632 ug/l	94
32) 1,1,1-Trichloroethane	7.622	97	82882	22.871 ug/l	98
36) 1,1-Dichloropropene	7.841	75	63439	21.727 ug/l	99
37) Ethyl Acetate	6.994	43	26794	20.032 ug/l	97
38) Carbon Tetrachloride	7.823	117	75608	24.801 ug/l	98
39) Methylcyclohexane	9.115	83	82700	22.631 ug/l	99
40) Benzene	8.085	78	192195	22.461 ug/l	99

Sample Results: **VY020404.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020404.D
Acq On : 22 Nov 2024 11:04
Operator : SY/MD
Sample : VY1122SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 22 23:57:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBS02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/26/2024
Supervised By :Semsettin Yesilyurt 11/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	15027	19.745	ug/l	98
42) 1,2-Dichloroethane	8.164	62	52455	22.711	ug/l	100
43) Isopropyl Acetate	8.201	43	53749	20.663	ug/l	96
44) Trichloroethene	8.872	130	46129	22.753	ug/l	98
45) 1,2-Dichloropropane	9.146	63	44684	21.887	ug/l	99
46) Dibromomethane	9.237	93	21891	20.921	ug/l	97
47) Bromodichloromethane	9.426	83	63732	22.063	ug/l	98
48) Methyl methacrylate	9.225	41	25223	20.282	ug/l	97
49) 1,4-Dioxane	9.231	88	4426	411.137	ug/l	92
51) 4-Methyl-2-Pentanone	9.999	43	134967	102.243	ug/l	99
52) Toluene	10.176	92	117588	22.483	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	57948	21.214	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	69407	22.197	ug/l	97
55) 1,1,2-Trichloroethane	10.579	97	30154	21.710	ug/l	96
56) Ethyl methacrylate	10.444	69	41769	20.024	ug/l	94
57) 1,3-Dichloropropane	10.719	76	52320	20.960	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	99738	100.839	ug/l	100
59) 2-Hexanone	10.761	43	96861	103.624	ug/l	97
60) Dibromochloromethane	10.914	129	40445	22.591	ug/l	99
61) 1,2-Dibromoethane	11.018	107	27281	21.196	ug/l	99
64) Tetrachloroethene	10.652	164	40490	22.777	ug/l	95
65) Chlorobenzene	11.444	112	122560	22.290	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.517	131	41629	22.663	ug/l	98
67) Ethyl Benzene	11.524	91	228903	22.565	ug/l	100
68) m/p-Xylenes	11.633	106	166365	45.531	ug/l	98
69) o-Xylene	11.956	106	78340	22.605	ug/l	96
70) Styrene	11.975	104	132399	22.994	ug/l	99
71) Bromoform	12.133	173	22552	23.558	ug/l	100
73) Isopropylbenzene	12.261	105	219664	22.896	ug/l	100
74) N-amyl acetate	12.072	43	43939	18.952	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.511	83	32756	21.125	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	22996m	21.543	ug/l	
77) Bromobenzene	12.536	156	43708	21.745	ug/l	98
78) n-propylbenzene	12.597	91	253646	22.029	ug/l	99
79) 2-Chlorotoluene	12.682	91	144796	21.872	ug/l	100
80) 1,3,5-Trimethylbenzene	12.743	105	176320	22.740	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.310	75	11280	20.706	ug/l	98
82) 4-Chlorotoluene	12.779	91	146063	21.378	ug/l	99
83) tert-Butylbenzene	13.005	119	154600	22.594	ug/l	97
84) 1,2,4-Trimethylbenzene	13.048	105	174090	22.647	ug/l	98
85) sec-Butylbenzene	13.182	105	221656	20.548	ug/l	100
86) p-Isopropyltoluene	13.298	119	184448	22.115	ug/l	99
87) 1,3-Dichlorobenzene	13.292	146	87940	21.637	ug/l	100
88) 1,4-Dichlorobenzene	13.377	146	87853	22.624	ug/l	99
89) n-Butylbenzene	13.621	91	171542	21.478	ug/l	99
90) Hexachloroethane	13.883	117	34288	21.300	ug/l	94
91) 1,2-Dichlorobenzene	13.663	146	75430	22.275	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5026	19.754	ug/l	95
93) 1,2,4-Trichlorobenzene	14.931	180	43522	21.257	ug/l	99
94) Hexachlorobutadiene	15.029	225	27642	22.118	ug/l	99
95) Naphthalene	15.151	128	72288	20.501	ug/l	99
96) 1,2,3-Trichlorobenzene	15.340	180	36036	20.585	ug/l	99

Sample Results: **VY020404.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020404.D
Acq On : 22 Nov 2024 11:04
Operator : SY/MD
Sample : VY1122SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 22 23:57:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBS02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/26/2024
Supervised By :Semsettin Yesilyurt 11/26/2024

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

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

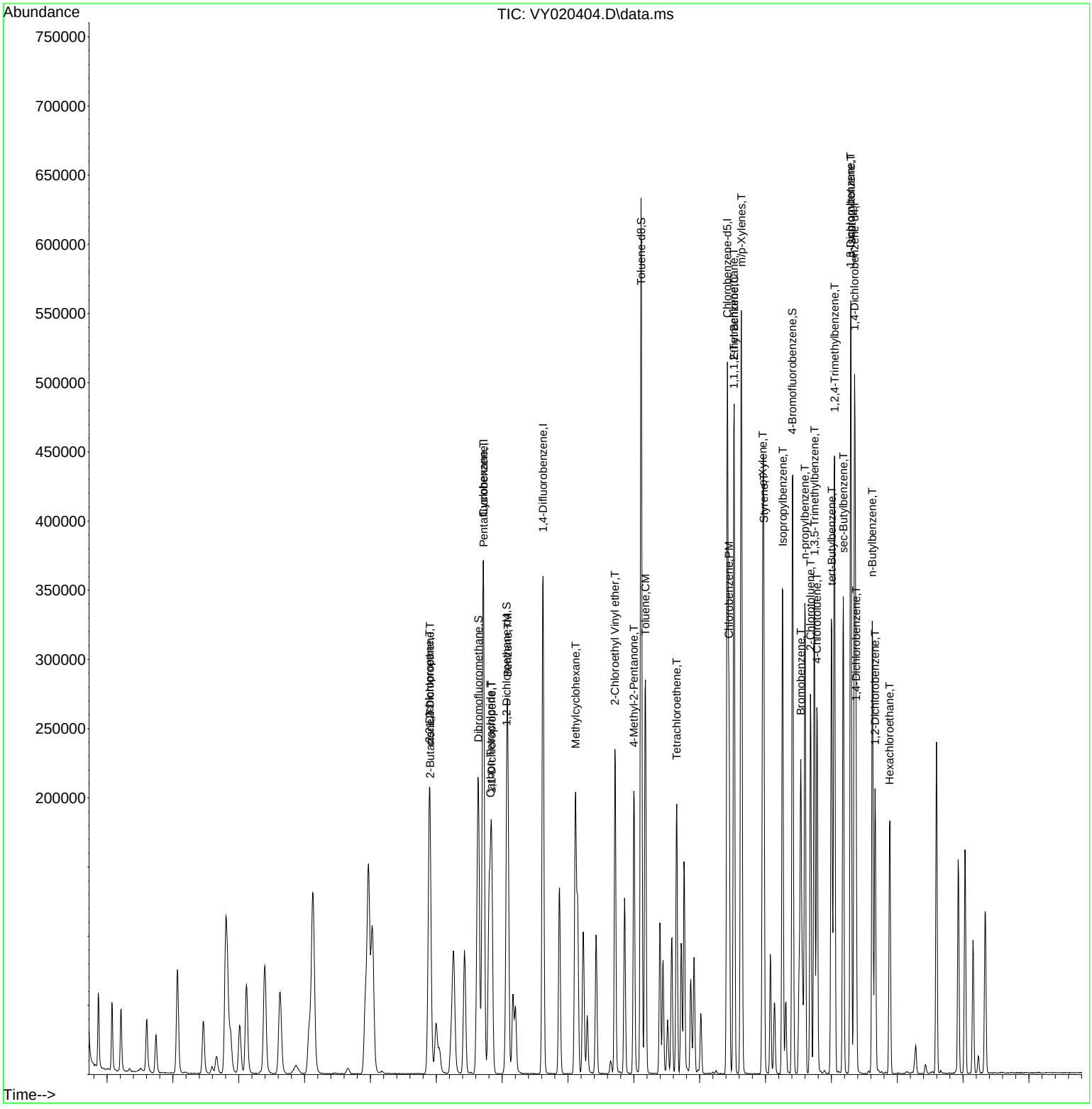
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112224\
Data File : VY020404.D
Acq On : 22 Nov 2024 11:04
Operator : SY/MD
Sample : VY1122SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 22 23:57:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1122SBS02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/26/2024
Supervised By :Semsettin Yesilyurt 11/26/2024



Raw Data: **VY020431.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	
Client Sample ID:	VY1125SBS02	SDG No.:	P4960
Lab Sample ID:	VY1125SBS02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5200 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020431.D	1		11/25/24 15:47	VY112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	22.4		0.70	5.20	ug/Kg
71-43-2	Benzene	25.0		0.75	5.20	ug/Kg
108-88-3	Toluene	25.7		0.70	5.20	ug/Kg
100-41-4	Ethyl Benzene	25.3		0.64	5.20	ug/Kg
179601-23-1	m/p-Xylenes	52.3		1.40	10.4	ug/Kg
95-47-6	o-Xylene	25.9		0.73	5.20	ug/Kg
98-82-8	Isopropylbenzene	25.4		0.70	5.20	ug/Kg
103-65-1	n-propylbenzene	24.9		0.67	5.20	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	25.9		0.67	5.20	ug/Kg
98-06-6	tert-Butylbenzene	25.8		0.70	5.20	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	25.2		1.40	5.20	ug/Kg
135-98-8	sec-Butylbenzene	23.0		0.70	5.20	ug/Kg
99-87-6	p-Isopropyltoluene	25.1		0.60	5.20	ug/Kg
104-51-8	n-Butylbenzene	23.8		0.66	5.20	ug/Kg
91-20-3	Naphthalene	23.1		1.50	5.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	41.7		50 - 163	83%	SPK: 50
1868-53-7	Dibromofluoromethane	42.3		54 - 147	85%	SPK: 50
2037-26-5	Toluene-d8	42.6		58 - 134	85%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		29 - 146	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	157000	7.713			
540-36-3	1,4-Difluorobenzene	252000	8.616			
3114-55-4	Chlorobenzene-d5	210000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	96600	13.346			

Raw Data: **VY020431.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	
Client Sample ID:	VY1125SBS02	SDG No.:	P4960
Lab Sample ID:	VY1125SBS02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5200 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020431.D	1		11/25/24 15:47	VY112524

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: **VY020431.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020431.D
Acq On : 25 Nov 2024 15:47
Operator : SY/MD
Sample : VY1125SBS02
Misc : 5.00g/5.2mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 26 00:44:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1125SBS02

Manual Integrations APPROVED
Reviewed By :Romaben Patel 11/26/2024
Supervised By :Mahesh Dadoda 11/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	156937	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	252125	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	210024	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	96610	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	75259	41.740	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 83.480%			
35) Dibromofluoromethane	7.640	113	68366	42.287	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 84.580%			
50) Toluene-d8	10.109	98	271584	42.645	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 85.280%			
62) 4-Bromofluorobenzene	12.408	95	91542	44.714	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 89.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	32483	21.324	ug/l	99
3) Chloromethane	2.074	50	35302	14.407	ug/l	99
4) Vinyl Chloride	2.208	62	34334	16.429	ug/l	99
5) Bromomethane	2.592	94	21327	20.434	ug/l	96
6) Chloroethane	2.739	64	21157	17.354	ug/l	95
7) Trichlorofluoromethane	3.068	101	64498	22.209	ug/l	99
8) Diethyl Ether	3.458	74	19251	21.010	ug/l	92
9) 1,1,2-Trichlorotrifluo...	3.824	101	35571	20.567	ug/l	97
10) Methyl Iodide	4.007	142	48123	20.773	ug/l	95
11) Tert butyl alcohol	4.866	59	13952	99.520	ug/l #	90
12) 1,1-Dichloroethene	3.793	96	36440	21.285	ug/l	97
13) Acrolein	3.659	56	14380	128.800	ug/l	99
14) Allyl chloride	4.391	41	64253	19.409	ug/l	96
15) Acrylonitrile	5.067	53	40121	99.052	ug/l	99
16) Acetone	3.873	43	40602	93.934	ug/l	99
17) Carbon Disulfide	4.110	76	119108	20.651	ug/l	100
18) Methyl Acetate	4.391	43	20449	20.296	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	95665	21.511	ug/l	98
20) Methylene Chloride	4.622	84	39426	21.539	ug/l	98
21) trans-1,2-Dichloroethene	5.122	96	41293	21.717	ug/l	96
22) Diisopropyl ether	6.025	45	130353	19.980	ug/l	96
23) Vinyl Acetate	5.964	43	354594	97.259	ug/l	97
24) 1,1-Dichloroethane	5.921	63	77181	20.956	ug/l	99
25) 2-Butanone	6.896	43	56106	100.827	ug/l	95
26) 2,2-Dichloropropane	6.890	77	71594	23.519	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	48605	23.208	ug/l	98
28) Bromochloromethane	7.250	49	26764	17.266	ug/l	93
29) Tetrahydrofuran	7.274	42	34024	102.303	ug/l	98
30) Chloroform	7.427	83	79639	22.392	ug/l	99
31) Cyclohexane	7.707	56	68645	20.423	ug/l	95
32) 1,1,1-Trichloroethane	7.622	97	75144	24.063	ug/l	97
36) 1,1-Dichloropropene	7.841	75	57786	23.402	ug/l	99
37) Ethyl Acetate	6.988	43	24113	21.317	ug/l	97
38) Carbon Tetrachloride	7.823	117	68218	26.460	ug/l	99
39) Methylcyclohexane	9.116	83	71544	23.151	ug/l	97
40) Benzene	8.085	78	173811	24.019	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020431.D
Acq On : 25 Nov 2024 15:47
Operator : SY/MD
Sample : VY1125SBS02
Misc : 5.00g/5.2mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 26 00:44:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1125SBS02

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/26/2024
Supervised By :Mahesh Dadoda 11/26/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	10636	16.525	ug/l	#	78
42) 1,2-Dichloroethane	8.164	62	48841	25.005	ug/l		100
43) Isopropyl Acetate	8.201	43	47992	21.817	ug/l	#	87
44) Trichloroethene	8.866	130	42676	24.891	ug/l		100
45) 1,2-Dichloropropane	9.146	63	39735	23.015	ug/l		95
46) Dibromomethane	9.231	93	20575	23.251	ug/l		98
47) Bromodichloromethane	9.426	83	59163	24.219	ug/l		99
48) Methyl methacrylate	9.225	41	22892	21.766	ug/l		95
49) 1,4-Dioxane	9.231	88	4206	461.995	ug/l	#	92
51) 4-Methyl-2-Pentanone	9.999	43	120635	108.062	ug/l		98
52) Toluene	10.170	92	109344	24.722	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	55069	23.839	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	64168	24.266	ug/l		95
55) 1,1,2-Trichloroethane	10.573	97	27201	23.157	ug/l		96
56) Ethyl methacrylate	10.438	69	38426	21.783	ug/l		98
57) 1,3-Dichloropropane	10.719	76	48745	23.091	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	69349	82.908	ug/l		95
59) 2-Hexanone	10.762	43	83872	106.101	ug/l		98
60) Dibromochloromethane	10.914	129	38150	25.198	ug/l		100
61) 1,2-Dibromoethane	11.018	107	24654	22.650	ug/l		98
64) Tetrachloroethene	10.646	164	37333	24.659	ug/l		93
65) Chlorobenzene	11.444	112	114009	24.346	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	39969	25.550	ug/l		97
67) Ethyl Benzene	11.518	91	210526	24.369	ug/l		100
68) m/p-Xylenes	11.627	106	156600	50.324	ug/l		98
69) o-Xylene	11.956	106	73577	24.929	ug/l		97
70) Styrene	11.969	104	122532	24.987	ug/l		98
71) Bromoform	12.133	173	20622	25.294	ug/l	#	99
73) Isopropylbenzene	12.255	105	199692	24.400	ug/l		99
74) N-amyl acetate	12.072	43	40610	20.534	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.505	83	29200	22.076	ug/l		97
76) 1,2,3-Trichloropropane	12.560	75	22569m	24.785	ug/l		
77) Bromobenzene	12.536	156	42160	24.588	ug/l		98
78) n-propylbenzene	12.597	91	235624	23.990	ug/l		100
79) 2-Chlorotoluene	12.682	91	134238	23.771	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	164519	24.874	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.304	75	10501	22.597	ug/l		99
82) 4-Chlorotoluene	12.779	91	138926	23.837	ug/l		99
83) tert-Butylbenzene	12.999	119	144868	24.820	ug/l		98
84) 1,2,4-Trimethylbenzene	13.048	105	158985	24.245	ug/l		100
85) sec-Butylbenzene	13.176	105	203608	22.127	ug/l		100
86) p-Isopropyltoluene	13.292	119	171776	24.144	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	81167	23.412	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	79671	24.051	ug/l		99
89) n-Butylbenzene	13.621	91	156073	22.908	ug/l		98
90) Hexachloroethane	13.883	117	32639	23.769	ug/l		94
91) 1,2-Dichlorobenzene	13.663	146	69475	24.052	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	4525	20.849	ug/l		99
93) 1,2,4-Trichlorobenzene	14.925	180	38346	21.955	ug/l		98
94) Hexachlorobutadiene	15.029	225	25247	23.682	ug/l		99
95) Naphthalene	15.151	128	66863	22.229	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	32489	21.756	ug/l		100

Sample Results: **VY020431.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020431.D
Acq On : 25 Nov 2024 15:47
Operator : SY/MD
Sample : VY1125SBS02
Misc : 5.00g/5.2mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 26 00:44:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1125SBS02

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/26/2024
Supervised By :Mahesh Dadoda 11/26/2024

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

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

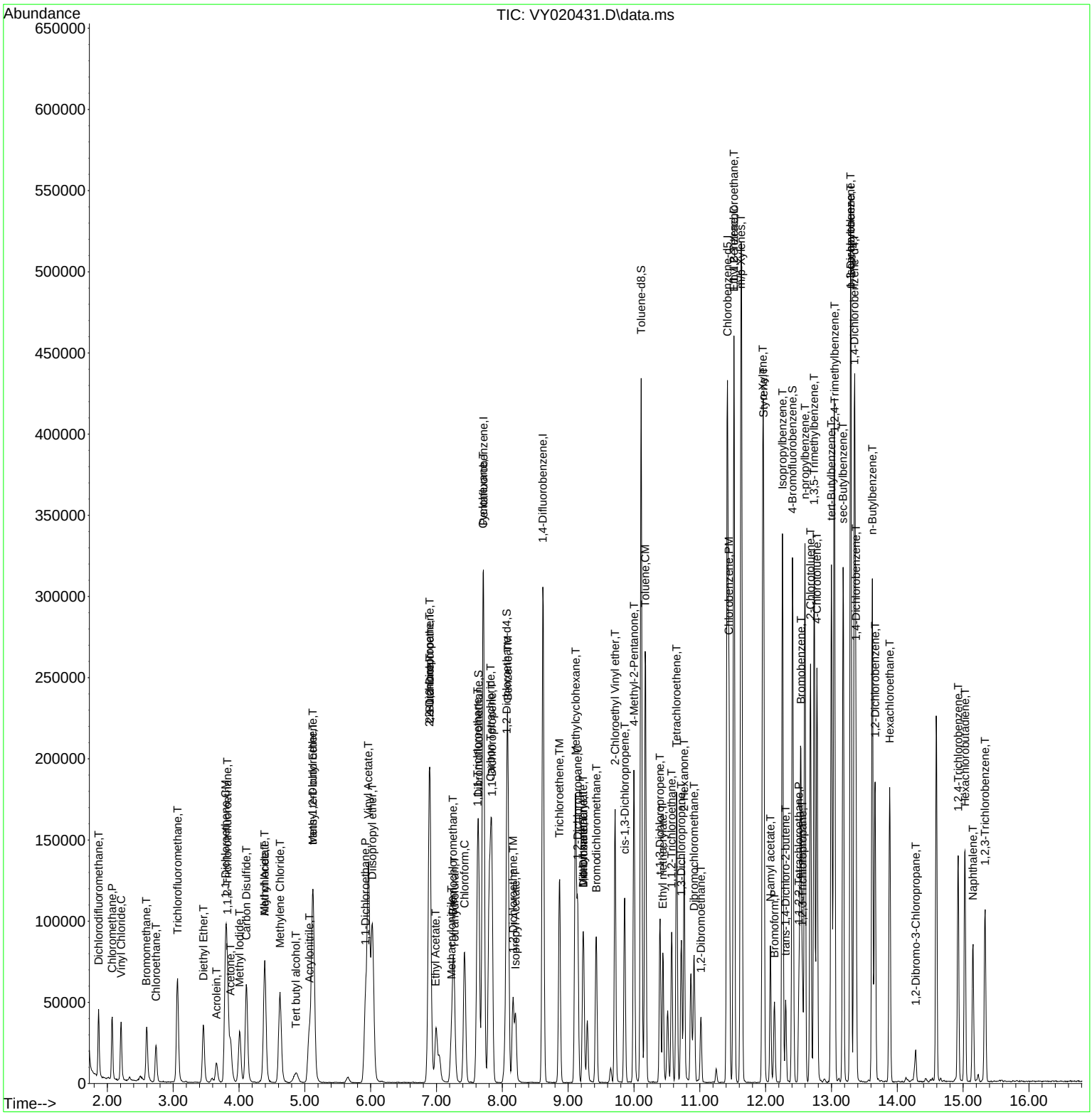
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020431.D
Acq On : 25 Nov 2024 15:47
Operator : SY/MD
Sample : VY1125SBS02
Misc : 5.00g/5.2mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 26 00:44:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1125SBS02

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/26/2024
Supervised By :Mahesh Dadoda 11/26/2024



Raw Data: **VY020441.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	
Client Sample ID:	VY1125SBSD02	SDG No.:	P4960
Lab Sample ID:	VY1125SBSD02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020441.D	1		11/25/24 19:40	VY112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	24.2		0.67	5.00	ug/Kg
71-43-2	Benzene	25.9		0.72	5.00	ug/Kg
108-88-3	Toluene	26.1		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	25.2		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	52.2		1.40	10.0	ug/Kg
95-47-6	o-Xylene	25.6		0.70	5.00	ug/Kg
98-82-8	Isopropylbenzene	24.3		0.67	5.00	ug/Kg
103-65-1	n-propylbenzene	24.1		0.64	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	24.4		0.64	5.00	ug/Kg
98-06-6	tert-Butylbenzene	24.9		0.67	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	24.5		1.40	5.00	ug/Kg
135-98-8	sec-Butylbenzene	22.9		0.67	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	24.4		0.58	5.00	ug/Kg
104-51-8	n-Butylbenzene	23.7		0.63	5.00	ug/Kg
91-20-3	Naphthalene	24.1		1.50	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.8		50 - 163	98%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		54 - 147	96%	SPK: 50
2037-26-5	Toluene-d8	47.0		58 - 134	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.0		29 - 146	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	154000	7.713			
540-36-3	1,4-Difluorobenzene	250000	8.616			
3114-55-4	Chlorobenzene-d5	215000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	104000	13.347			

Raw Data: **VY020441.D**

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

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	
Client Sample ID:	VY1125SBSD02	SDG No.:	P4960
Lab Sample ID:	VY1125SBSD02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020441.D	1		11/25/24 19:40	VY112524

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: **VY020441.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020441.D
Acq On : 25 Nov 2024 19:40
Operator : SY/MD
Sample : VY1125SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 26 00:49:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1125SBSD02

Manual Integrations APPROVED
Reviewed By :Romaben Patel 11/26/2024
Supervised By :Mahesh Dadoda 11/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	154039	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	250068	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	214670	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	104045	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	86398	48.820	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 97.640%			
35) Dibromofluoromethane	7.640	113	76731	47.852	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 95.700%			
50) Toluene-d8	10.109	98	296877	47.000	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.000%			
62) 4-Bromofluorobenzene	12.408	95	103584	51.012	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 102.020%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	35351	23.643	ug/l	97
3) Chloromethane	2.074	50	36859	15.649	ug/l	99
4) Vinyl Chloride	2.208	62	35109	17.116	ug/l	98
5) Bromomethane	2.592	94	21684	21.167	ug/l	94
6) Chloroethane	2.739	64	21986	18.374	ug/l	99
7) Trichlorofluoromethane	3.062	101	69054	24.225	ug/l	99
8) Diethyl Ether	3.458	74	20407	22.690	ug/l	92
9) 1,1,2-Trichlorotrifluo...	3.824	101	37394	22.028	ug/l	96
10) Methyl Iodide	4.007	142	48631	21.387	ug/l	93
11) Tert butyl alcohol	4.866	59	15178	110.851	ug/l	96
12) 1,1-Dichloroethene	3.793	96	38797	23.088	ug/l	99
13) Acrolein	3.653	56	13799	125.922	ug/l	97
14) Allyl chloride	4.391	41	68767	21.163	ug/l	97
15) Acrylonitrile	5.068	53	45063	113.346	ug/l	98
16) Acetone	3.879	43	41831	98.599	ug/l	97
17) Carbon Disulfide	4.110	76	125414	22.153	ug/l	99
18) Methyl Acetate	4.391	43	23847	24.113	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	105705	24.216	ug/l	96
20) Methylene Chloride	4.622	84	41992	23.373	ug/l	98
21) trans-1,2-Dichloroethene	5.122	96	43851	23.496	ug/l	99
22) Diisopropyl ether	6.025	45	140022	21.866	ug/l	95
23) Vinyl Acetate	5.964	43	383536	107.176	ug/l	100
24) 1,1-Dichloroethane	5.921	63	82291	22.764	ug/l	98
25) 2-Butanone	6.896	43	60983	111.653	ug/l	99
26) 2,2-Dichloropropane	6.890	77	72437	24.243	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	50706	24.667	ug/l	99
28) Bromochloromethane	7.250	49	28598	18.796	ug/l	93
29) Tetrahydrofuran	7.268	42	38084	116.664	ug/l	98
30) Chloroform	7.421	83	84260	24.137	ug/l	95
31) Cyclohexane	7.701	56	73308	22.221	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	78741	25.689	ug/l	98
36) 1,1-Dichloropropene	7.841	75	61887	25.269	ug/l	100
37) Ethyl Acetate	6.988	43	26987	24.054	ug/l	98
38) Carbon Tetrachloride	7.823	117	73557	28.765	ug/l	99
39) Methylcyclohexane	9.109	83	77498	25.284	ug/l	99
40) Benzene	8.085	78	186140	25.934	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020441.D
Acq On : 25 Nov 2024 19:40
Operator : SY/MD
Sample : VY1125SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 26 00:49:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1125SBSD02

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/26/2024
Supervised By :Mahesh Dadoda 11/26/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	12366	19.371	ug/l	#	83
42) 1,2-Dichloroethane	8.165	62	52156	26.922	ug/l		99
43) Isopropyl Acetate	8.201	43	54168	24.827	ug/l		97
44) Trichloroethene	8.866	130	45008	26.467	ug/l		94
45) 1,2-Dichloropropane	9.140	63	43074	25.154	ug/l		98
46) Dibromomethane	9.231	93	23589	26.876	ug/l		98
47) Bromodichloromethane	9.427	83	64052	26.436	ug/l		99
48) Methyl methacrylate	9.225	41	25647	24.587	ug/l		96
49) 1,4-Dioxane	9.231	88	4531	501.787	ug/l	#	87
51) 4-Methyl-2-Pentanone	10.000	43	136665	123.428	ug/l		98
52) Toluene	10.170	92	114484	26.097	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	56997	24.877	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	67484	25.730	ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	29558	25.371	ug/l		97
56) Ethyl methacrylate	10.439	69	43903	25.092	ug/l		94
57) 1,3-Dichloropropane	10.719	76	54321	25.944	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	79662	96.021	ug/l		97
59) 2-Hexanone	10.762	43	94135	120.064	ug/l		98
60) Dibromochloromethane	10.914	129	41022	27.317	ug/l		99
61) 1,2-Dibromoethane	11.018	107	27679	25.639	ug/l		99
64) Tetrachloroethene	10.646	164	41470	26.799	ug/l		99
65) Chlorobenzene	11.444	112	121500	25.385	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	42516	26.590	ug/l		98
67) Ethyl Benzene	11.518	91	222845	25.237	ug/l		98
68) m/p-Xylenes	11.627	106	166105	52.224	ug/l		98
69) o-Xylene	11.957	106	77121	25.564	ug/l		97
70) Styrene	11.969	104	133174	26.570	ug/l		98
71) Bromoform	12.133	173	23043	27.652	ug/l	#	99
73) Isopropylbenzene	12.255	105	214303	24.315	ug/l		99
74) N-amyl acetate	12.072	43	47117	22.121	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	33068	23.214	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	25567m	26.071	ug/l		
77) Bromobenzene	12.536	156	45222	24.489	ug/l		99
78) n-propylbenzene	12.597	91	254993	24.107	ug/l		99
79) 2-Chlorotoluene	12.682	91	144380	23.739	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	173783	24.397	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	12001	23.979	ug/l		97
82) 4-Chlorotoluene	12.780	91	149547	23.826	ug/l		99
83) tert-Butylbenzene	12.999	119	156382	24.878	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	172923	24.486	ug/l		98
85) sec-Butylbenzene	13.176	105	227224	22.929	ug/l		99
86) p-Isopropyltoluene	13.292	119	186733	24.371	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	89761	24.040	ug/l		97
88) 1,4-Dichlorobenzene	13.371	146	87629	24.564	ug/l		99
89) n-Butylbenzene	13.621	91	174036	23.719	ug/l		99
90) Hexachloroethane	13.883	117	35118	23.747	ug/l		96
91) 1,2-Dichlorobenzene	13.657	146	77384	24.875	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5488	23.479	ug/l		92
93) 1,2,4-Trichlorobenzene	14.926	180	45379	24.125	ug/l		99
94) Hexachlorobutadiene	15.029	225	29573	25.757	ug/l		97
95) Naphthalene	15.151	128	78213	24.144	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	38244	23.780	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020441.D
Acq On : 25 Nov 2024 19:40
Operator : SY/MD
Sample : VY1125SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1125SBSD02

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/26/2024
Supervised By :Mahesh Dadoda 11/26/2024

Quant Time: Nov 26 00:49:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

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

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

Sample Results: **VY020441.D**

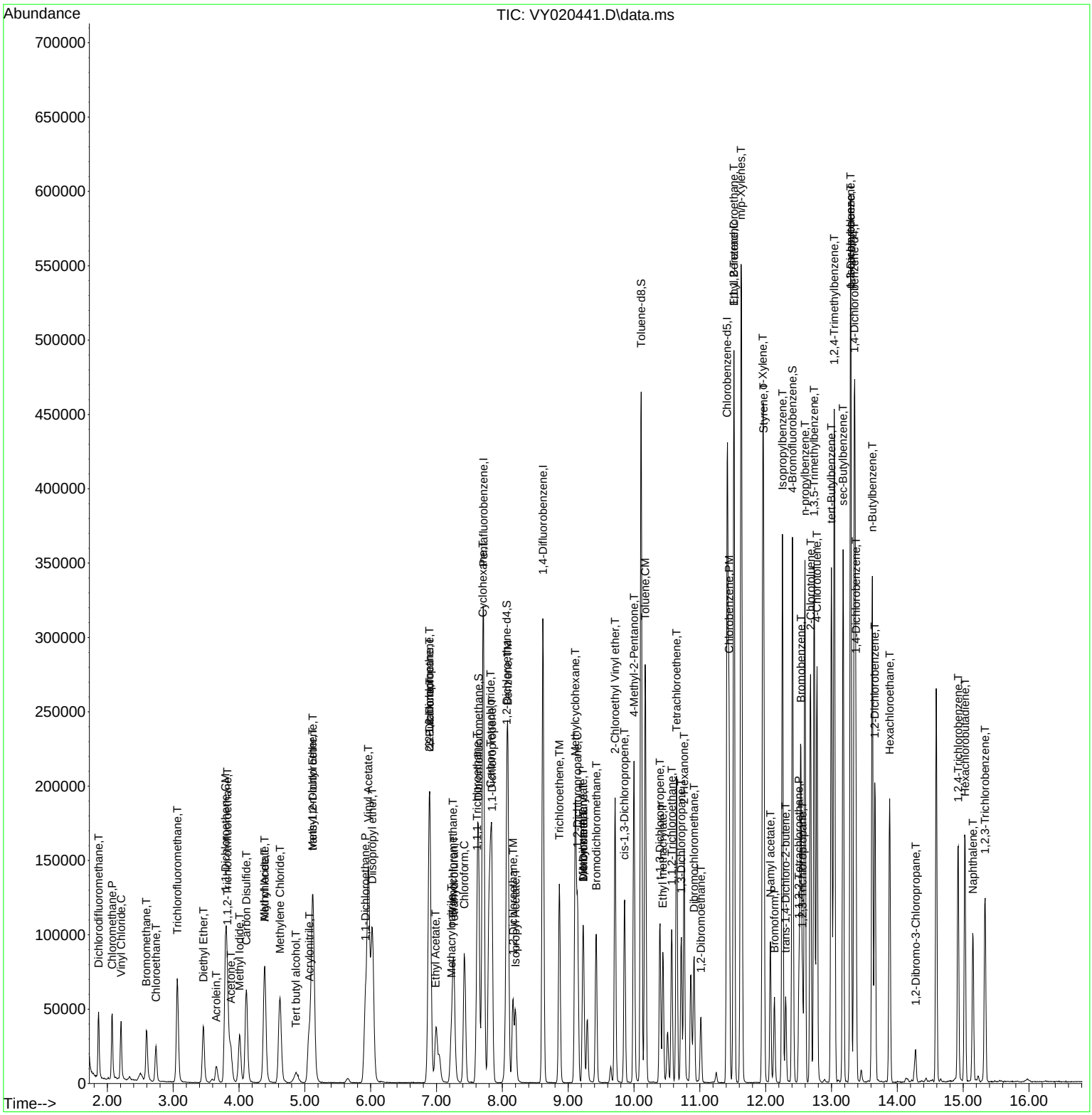
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112524\
Data File : VY020441.D
Acq On : 25 Nov 2024 19:40
Operator : SY/MD
Sample : VY1125SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 26 00:49:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1125SBSD02

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/26/2024
Supervised By :Mahesh Dadoda 11/26/2024



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

Manual Integration Report

Sequence:	vx112124	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VX043923.D	1,2,3-Trichloropropane	JOHN	11/21/2024 9:44:34 AM	MMDadoda	11/22/2024 3:33:41 PM	Peak Integrated by Software
VSTDICV050	VX043923.D	1,4-Dioxane	JOHN	11/21/2024 9:44:34 AM	MMDadoda	11/22/2024 3:33:41 PM	Peak Integrated by Software
VSTDICC001	VX043925.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:57:01 AM	MMDadoda	11/22/2024 3:33:43 PM	Peak Integrated by Software
VSTDICC001	VX043925.D	1,4-Dichlorobenzene	JOHN	11/22/2024 9:57:01 AM	MMDadoda	11/22/2024 3:33:43 PM	Peak Integrated by Software
VSTDICC001	VX043925.D	Bromochloromethane	JOHN	11/22/2024 9:57:01 AM	MMDadoda	11/22/2024 3:33:43 PM	Peak Integrated by Software
VSTDICC001	VX043925.D	Ethyl Acetate	JOHN	11/22/2024 9:57:01 AM	MMDadoda	11/22/2024 3:33:43 PM	Peak Integrated by Software
VSTDICC001	VX043925.D	Methacrylonitrile	JOHN	11/22/2024 9:57:01 AM	MMDadoda	11/22/2024 3:33:43 PM	Peak Integrated by Software
VSTDICC001	VX043925.D	Methyl methacrylate	JOHN	11/22/2024 9:57:01 AM	MMDadoda	11/22/2024 3:33:43 PM	Peak Integrated by Software
VSTDICC005	VX043926.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:57:07 AM	MMDadoda	11/22/2024 3:33:44 PM	Peak Integrated by Software
VSTDICC005	VX043926.D	1,4-Dioxane	JOHN	11/22/2024 9:57:07 AM	MMDadoda	11/22/2024 3:33:44 PM	Peak Integrated by Software
VSTDICC005	VX043926.D	Ethyl Acetate	JOHN	11/22/2024 9:57:07 AM	MMDadoda	11/22/2024 3:33:44 PM	Peak Integrated by Software
VSTDICC005	VX043926.D	Tert butyl alcohol	JOHN	11/22/2024 9:57:07 AM	MMDadoda	11/22/2024 3:33:44 PM	Peak Integrated by Software
VSTDICC020	VX043927.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:57:12 AM	MMDadoda	11/22/2024 3:33:46 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vx112124	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC020	VX043927.D	1,4-Dioxane	JOHN	11/22/2024 9:57:12 AM	MMDadoda	11/22/2024 3:33:46 PM	Peak Integrated by Software
VSTDICCC050	VX043928.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:57:17 AM	MMDadoda	11/22/2024 3:33:47 PM	Peak Integrated by Software
VSTDICCC050	VX043928.D	1,4-Dioxane	JOHN	11/22/2024 9:57:17 AM	MMDadoda	11/22/2024 3:33:47 PM	Peak Integrated by Software
VSTDICC100	VX043929.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:57:21 AM	MMDadoda	11/22/2024 3:33:49 PM	Peak Integrated by Software
VSTDICC100	VX043929.D	1,4-Dioxane	JOHN	11/22/2024 9:57:21 AM	MMDadoda	11/22/2024 3:33:49 PM	Peak Integrated by Software
VSTDICC150	VX043930.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:57:26 AM	MMDadoda	11/22/2024 3:33:50 PM	Peak Integrated by Software
VSTDICV050	VX043932.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:57:30 AM	MMDadoda	11/22/2024 3:33:52 PM	Peak Integrated by Software
VSTDCCC050	VX043948.D	1,2,3-Trichloropropane	MMDadoda	11/29/2024 8:03:03 AM	SAM	11/29/2024 8:03:34 AM	Peak Integrated by Software
VSTDCCC050	VX043948.D	2-Chloroethyl Vinyl ether	MMDadoda	11/29/2024 8:03:03 AM	SAM	11/29/2024 8:03:34 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX112724	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX044024.D	1,2,3-Trichloropropane	JOHN	12/2/2024 9:50:52 AM	MMDadoda	12/2/2024 10:24:29 AM	Peak Integrated by Software
VX1127MBS01	VX044027.D	1,2,3-Trichloropropane	JOHN	12/2/2024 9:50:56 AM	MMDadoda	12/2/2024 10:24:31 AM	Peak Integrated by Software
VSTDCCC050	VX044050.D	1,2,3-Trichloropropane	JOHN	12/2/2024 9:52:48 AM	MMDadoda	12/2/2024 10:24:40 AM	Peak Integrated by Software
VSTDCCC050	VX044050.D	1,4-Dioxane	JOHN	12/2/2024 9:52:48 AM	MMDadoda	12/2/2024 10:24:40 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY111924	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY020338.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:16:52 AM	SAM	11/25/2024 5:45:24 AM	Peak Integrated by Software
VSTDICC005	VY020338.D	Tert butyl alcohol	Romaben	11/20/2024 9:16:52 AM	SAM	11/25/2024 5:45:24 AM	Peak Integrated by Software
VSTDICC010	VY020339.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:16:57 AM	MMDadoda	11/20/2024 1:00:48 PM	Peak Integrated by Software
VSTDICC020	VY020340.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:17:07 AM	MMDadoda	11/20/2024 1:00:52 PM	Peak Integrated by Software
VSTDICCC050	VY020341.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:18:09 AM	MMDadoda	11/20/2024 1:00:53 PM	Peak Integrated by Software
VSTDICC100	VY020342.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:17:14 AM	MMDadoda	11/20/2024 1:00:55 PM	Peak Integrated by Software
VSTDICC150	VY020343.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:17:19 AM	MMDadoda	11/20/2024 1:00:56 PM	Peak Integrated by Software
VSTDICV050	VY020345.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:17:24 AM	SAM	11/25/2024 5:45:26 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY112224	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020401.D	1,2,3-Trichloropropane	MMDadoda	11/25/2024 2:01:34 PM	SAM	11/25/2024 2:05:36 PM	Peak Integrated by Software
VY1122SBS02	VY020404.D	1,2,3-Trichloropropane	MMDadoda	11/26/2024 3:33:33 AM	SAM	11/26/2024 3:34:04 AM	Peak Integrated by Software
VSTDCCC050	VY020421.D	1,2,3-Trichloropropane	MMDadoda	11/25/2024 2:01:43 PM	SAM	11/25/2024 2:05:43 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY112524	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020423.D	1,2,3-Trichloropropane	Romaben	11/26/2024 9:39:08 AM	MMDadoda	11/26/2024 9:43:32 AM	Peak Integrated by Software
VY1125SBS02	VY020431.D	1,2,3-Trichloropropane	Romaben	11/26/2024 9:39:19 AM	MMDadoda	11/26/2024 9:43:36 AM	Peak Integrated by Software
VY1125SBSD02	VY020441.D	1,2,3-Trichloropropane	Romaben	11/26/2024 9:39:24 AM	MMDadoda	11/26/2024 9:43:38 AM	Peak Integrated by Software
VSTDCCC050	VY020442.D	1,2,3-Trichloropropane	Romaben	11/26/2024 9:39:28 AM	MMDadoda	11/26/2024 9:43:40 AM	Peak Integrated by Software

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX112124

Review By	John Carlone	Review On	11/21/2024 9:44:50 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/22/2024 3:34:00 PM		
SubDirectory	VX112124	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131686,VP131690
Initial Calibration Stds	VP131716,VP131717,VP131718,VP131719,VP131720,VP131721
CCC	VP131691
Internal Standard/PEM	
ICV/I.BLK	VP131722
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043915.D	20 Nov 2024 15:43	JC/MD	Not Ok
2	VSTDICC001	VX043916.D	20 Nov 2024 16:11	JC/MD	Not Ok
3	VSTDICC005	VX043917.D	20 Nov 2024 16:57	JC/MD	Not Ok
4	VSTDICC020	VX043918.D	20 Nov 2024 17:20	JC/MD	Not Ok
5	VSTDICCC050	VX043919.D	20 Nov 2024 17:43	JC/MD	Not Ok
6	VSTDICC100	VX043920.D	20 Nov 2024 18:06	JC/MD	Not Ok
7	VSTDICC150	VX043921.D	20 Nov 2024 18:30	JC/MD	Not Ok
8	IBLK	VX043922.D	20 Nov 2024 18:53	JC/MD	Not Ok
9	VSTDICV050	VX043923.D	20 Nov 2024 19:16	JC/MD	Not Ok
10	BFB	VX043924.D	21 Nov 2024 08:51	JC/MD	Ok
11	VSTDICC001	VX043925.D	21 Nov 2024 09:47	JC/MD	Ok,M
12	VSTDICC005	VX043926.D	21 Nov 2024 10:14	JC/MD	Ok,M
13	VSTDICC020	VX043927.D	21 Nov 2024 10:37	JC/MD	Ok,M
14	VSTDICCC050	VX043928.D	21 Nov 2024 11:17	JC/MD	Ok,M
15	VSTDICC100	VX043929.D	21 Nov 2024 11:40	JC/MD	Ok,M
16	VSTDICC150	VX043930.D	21 Nov 2024 12:03	JC/MD	Ok,M
17	IBLK	VX043931.D	21 Nov 2024 12:27	JC/MD	Ok
18	VSTDICV050	VX043932.D	21 Nov 2024 13:57	JC/MD	Ok,M
19	VX1121MBL01	VX043933.D	21 Nov 2024 14:27	JC/MD	Ok
20	VX1121WBL01	VX043934.D	21 Nov 2024 14:50	JC/MD	Ok
21	VX1121WBS01	VX043935.D	21 Nov 2024 15:13	JC/MD	Ok,M

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX112124

Review By	John Carlone	Review On	11/21/2024 9:44:50 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/22/2024 3:34:00 PM		
SubDirectory	VX112124	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131686,VP131690
Initial Calibration Stds	VP131716,VP131717,VP131718,VP131719,VP131720,VP131721
CCC	VP131691
Internal Standard/PEM	
ICV/I.BLK	VP131722
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VX1121WBSD01	VX043936.D	21 Nov 2024 15:40	JC/MD	Ok,M
23	P4921-01	VX043937.D	21 Nov 2024 16:03	JC/MD	Ok
24	P4934-01	VX043938.D	21 Nov 2024 16:27	JC/MD	Ok
25	P4934-09	VX043939.D	21 Nov 2024 16:50	JC/MD	Ok
26	P4934-11	VX043940.D	21 Nov 2024 17:13	JC/MD	Ok
27	P4934-02	VX043941.D	21 Nov 2024 17:36	JC/MD	Ok
28	P4934-03	VX043942.D	21 Nov 2024 17:59	JC/MD	Ok
29	P4934-08	VX043943.D	21 Nov 2024 18:23	JC/MD	Ok
30	P4934-10	VX043944.D	21 Nov 2024 18:46	JC/MD	Ok
31	P4934-04	VX043945.D	21 Nov 2024 19:09	JC/MD	Ok
32	P4934-12	VX043946.D	21 Nov 2024 19:32	JC/MD	Ok
33	P4934-05	VX043947.D	21 Nov 2024 19:55	JC/MD	Ok
34	VSTDCCC050	VX043948.D	21 Nov 2024 20:18	JC/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX112724

Review By	John Carlone	Review On	12/2/2024 10:20:52 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/2/2024 10:24:46 AM		
SubDirectory	VX112724	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131824
Initial Calibration Stds	
CCC	VP131825,VP131826
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044023.D	27 Nov 2024 07:52	JC/MD	Ok
2	VSTDCCC050	VX044024.D	27 Nov 2024 08:46	JC/MD	Ok,M
3	VX1127MBL01	VX044025.D	27 Nov 2024 09:15	JC/MD	Ok
4	VX1127WBL01	VX044026.D	27 Nov 2024 09:38	JC/MD	Ok
5	VX1127MBS01	VX044027.D	27 Nov 2024 10:01	JC/MD	Ok,M
6	VX1127WBS01	VX044028.D	27 Nov 2024 10:27	JC/MD	Ok,M
7	P5006-18	VX044029.D	27 Nov 2024 10:50	JC/MD	Ok
8	PB165270TB	VX044030.D	27 Nov 2024 11:13	JC/MD	Ok
9	P5001-01	VX044031.D	27 Nov 2024 11:36	JC/MD	ReRun
10	P5001-02	VX044032.D	27 Nov 2024 11:59	JC/MD	ReRun
11	P5001-03	VX044033.D	27 Nov 2024 12:22	JC/MD	ReRun
12	P5001-04	VX044034.D	27 Nov 2024 12:45	JC/MD	ReRun
13	P5001-05	VX044035.D	27 Nov 2024 13:08	JC/MD	Dilution
14	P5001-06	VX044036.D	27 Nov 2024 13:31	JC/MD	Dilution
15	P5001-08	VX044037.D	27 Nov 2024 13:54	JC/MD	ReRun
16	P5001-09	VX044038.D	27 Nov 2024 14:16	JC/MD	Dilution
17	P5001-10	VX044039.D	27 Nov 2024 14:39	JC/MD	Dilution
18	P5001-11	VX044040.D	27 Nov 2024 15:02	JC/MD	ReRun
19	VX1127WBSD01	VX044041.D	27 Nov 2024 15:25	JC/MD	Ok,M
20	VX1127MBSD01	VX044042.D	27 Nov 2024 15:48	JC/MD	Ok,M
21	P4960-05	VX044043.D	27 Nov 2024 16:11	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX112724

Review By	John Carlone	Review On	12/2/2024 10:20:52 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/2/2024 10:24:46 AM		
SubDirectory	VX112724	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131824
Initial Calibration Stds	
CCC	VP131825,VP131826
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P5021-02	VX044044.D	27 Nov 2024 16:34	JC/MD	ReRun
23	P5021-01	VX044045.D	27 Nov 2024 16:57	JC/MD	ReRun
24	P5021-03	VX044046.D	27 Nov 2024 17:20	JC/MD	ReRun
25	P5021-04	VX044047.D	27 Nov 2024 17:43	JC/MD	ReRun
26	P5021-05	VX044048.D	27 Nov 2024 18:06	JC/MD	ReRun
27	P5021-06	VX044049.D	27 Nov 2024 18:29	JC/MD	Dilution
28	VSTDCCC050	VX044050.D	27 Nov 2024 18:52	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY111924

Review By	Mahesh Dadoda	Review On	11/20/2024 1:01:03 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/20/2024 1:03:18 PM		
SubDirectory	VY111924	HP Acquire Method		HP Processing Method	82y111924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131638
Initial Calibration Stds	VP131639,VP131640,VP131641,VP131642,VP131643,VP131644
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP131645
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020337.D	19 Nov 2024 14:40	SY/MD	Ok
2	VSTDICC005	VY020338.D	19 Nov 2024 15:49	SY/MD	Ok,M
3	VSTDICC010	VY020339.D	19 Nov 2024 16:12	SY/MD	Ok,M
4	VSTDICC020	VY020340.D	19 Nov 2024 16:35	SY/MD	Ok,M
5	VSTDICCC050	VY020341.D	19 Nov 2024 16:57	SY/MD	Ok,M
6	VSTDICC100	VY020342.D	19 Nov 2024 17:20	SY/MD	Ok,M
7	VSTDICC150	VY020343.D	19 Nov 2024 17:42	SY/MD	Ok,M
8	VIBLK	VY020344.D	19 Nov 2024 18:06	SY/MD	Ok
9	VSTDICV050	VY020345.D	19 Nov 2024 18:52	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY112224

Review By	Mahesh Dadoda	Review On	11/25/2024 2:01:45 PM	
Supervise By	Semsettin Yesilyurt	Supervise On	11/25/2024 2:05:55 PM	
SubDirectory	VY112224	HP Acquire Method		HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk	VP131732
Initial Calibration Stds	
CCC	VP131733,VP131734
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020400.D	22 Nov 2024 08:56	SY/MD	Ok
2	VSTDCCC050	VY020401.D	22 Nov 2024 09:40	SY/MD	Ok,M
3	VY1122SBL01	VY020402.D	22 Nov 2024 10:15	SY/MD	Ok
4	VY1122SBS01	VY020403.D	22 Nov 2024 10:42	SY/MD	Not Ok
5	VY1122SBS02	VY020404.D	22 Nov 2024 11:04	SY/MD	Ok,M
6	P4936-01RE	VY020405.D	22 Nov 2024 11:38	SY/MD	Confirms
7	P4892-02	VY020406.D	22 Nov 2024 12:01	SY/MD	Ok
8	P4954-03	VY020407.D	22 Nov 2024 12:53	SY/MD	ReRun
9	P4948-03	VY020408.D	22 Nov 2024 13:16	SY/MD	ReRun
10	P4948-01	VY020409.D	22 Nov 2024 13:39	SY/MD	Ok
11	P4951-02	VY020410.D	22 Nov 2024 14:03	SY/MD	ReRun
12	P4954-01	VY020411.D	22 Nov 2024 14:26	SY/MD	Ok,M
13	P4946-02	VY020412.D	22 Nov 2024 14:50	SY/MD	ReRun
14	P4946-01	VY020413.D	22 Nov 2024 15:13	SY/MD	Ok
15	P4960-01	VY020414.D	22 Nov 2024 15:36	SY/MD	Ok
16	P4960-02	VY020415.D	22 Nov 2024 16:00	SY/MD	Ok
17	P4960-03	VY020416.D	22 Nov 2024 16:23	SY/MD	Not Ok
18	P4960-04	VY020417.D	22 Nov 2024 16:47	SY/MD	Not Ok
19	P4960-05	VY020418.D	22 Nov 2024 17:10	SY/MD	Not Ok
20	P4960-06	VY020419.D	22 Nov 2024 17:33	SY/MD	Not Ok
21	VIBLK	VY020420.D	22 Nov 2024 17:57	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY112224

Review By	Mahesh Dadoda	Review On	11/25/2024 2:01:45 PM	
Supervise By	Semsettin Yesilyurt	Supervise On	11/25/2024 2:05:55 PM	
SubDirectory	VY112224	HP Acquire Method		HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk	VP131732
Initial Calibration Stds	
CCC	VP131733,VP131734
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VSTDCCC050	VY020421.D	22 Nov 2024 18:20	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY112524

Review By	Mahesh Dadoda	Review On	11/26/2024 9:43:29 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	11/26/2024 9:46:12 AM				
SubDirectory	VY112524	HP Acquire Method	MSVOA_Y	HP Processing Method	82y10311924s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131777
Initial Calibration Stds	
CCC	VP131785,VP131786
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020422.D	25 Nov 2024 09:01	SY/MD	Ok
2	VSTDCCC050	VY020423.D	25 Nov 2024 09:46	SY/MD	Ok,M
3	VY1125SBL01	VY020424.D	25 Nov 2024 10:17	SY/MD	Ok
4	P4949-03	VY020425.D	25 Nov 2024 13:29	SY/MD	Not Ok
5	P4948-01RE	VY020426.D	25 Nov 2024 13:52	SY/MD	Not Ok
6	P4948-03	VY020427.D	25 Nov 2024 14:15	SY/MD	Ok
7	P4949-03	VY020428.D	25 Nov 2024 14:39	SY/MD	Ok
8	VIBLK	VY020429.D	25 Nov 2024 15:02	SY/MD	Not Ok
9	VY1125SBS01	VY020430.D	25 Nov 2024 15:24	SY/MD	Not Ok
10	VY1125SBS02	VY020431.D	25 Nov 2024 15:47	SY/MD	Ok,M
11	P4951-02RE	VY020432.D	25 Nov 2024 16:10	SY/MD	Confirms
12	P4960-03	VY020433.D	25 Nov 2024 16:34	SY/MD	Ok
13	P4960-04	VY020434.D	25 Nov 2024 16:57	SY/MD	Ok
14	P4960-05	VY020435.D	25 Nov 2024 17:20	SY/MD	Not Ok
15	P4960-06	VY020436.D	25 Nov 2024 17:44	SY/MD	Ok
16	P4971-01	VY020437.D	25 Nov 2024 18:07	SY/MD	Ok
17	P4954-03RE	VY020438.D	25 Nov 2024 18:31	SY/MD	Confirms
18	P4954-01	VY020439.D	25 Nov 2024 18:54	SY/MD	Not Ok
19	P4946-02	VY020440.D	25 Nov 2024 19:17	SY/MD	Ok
20	VY1125SBSD02	VY020441.D	25 Nov 2024 19:40	SY/MD	Ok,M
21	VSTDCCC050	VY020442.D	25 Nov 2024 20:03	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX112124

Review By	John Carlone	Review On	11/21/2024 9:44:50 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/22/2024 3:34:00 PM		
SubDirectory	VX112124	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131686,VP131690
Initial Calibration Stds	VP131716,VP131717,VP131718,VP131719,VP131720,VP131721
CCC	VP131691
Internal Standard/PEM	
ICV/I.BLK	VP131722
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043915.D	20 Nov 2024 15:43		JC/MD	Not Ok
2	VSTDICC001	VSTDICC001	VX043916.D	20 Nov 2024 16:11	%D failed for Comp. #71,74,90,92 in 01 PPB	JC/MD	Not Ok
3	VSTDICC005	VSTDICC005	VX043917.D	20 Nov 2024 16:57	%D failed for Comp. #81 in 05 PPB	JC/MD	Not Ok
4	VSTDICC020	VSTDICC020	VX043918.D	20 Nov 2024 17:20		JC/MD	Not Ok
5	VSTDICCC050	VSTDICC050	VX043919.D	20 Nov 2024 17:43		JC/MD	Not Ok
6	VSTDICC100	VSTDICC100	VX043920.D	20 Nov 2024 18:06		JC/MD	Not Ok
7	VSTDICC150	VSTDICC150	VX043921.D	20 Nov 2024 18:30		JC/MD	Not Ok
8	IBLK	IBLK	VX043922.D	20 Nov 2024 18:53		JC/MD	Not Ok
9	VSTDICV050	ICVVX112124	VX043923.D	20 Nov 2024 19:16	Failed	JC/MD	Not Ok
10	BFB	BFB	VX043924.D	21 Nov 2024 08:51		JC/MD	Ok
11	VSTDICC001	VSTDICC001	VX043925.D	21 Nov 2024 09:47	%D failed for Comp. #71 in 01 PPB	JC/MD	Ok,M
12	VSTDICC005	VSTDICC005	VX043926.D	21 Nov 2024 10:14	QR- 58,71	JC/MD	Ok,M
13	VSTDICC020	VSTDICC020	VX043927.D	21 Nov 2024 10:37		JC/MD	Ok,M
14	VSTDICCC050	VSTDICCC050	VX043928.D	21 Nov 2024 11:17		JC/MD	Ok,M
15	VSTDICC100	VSTDICC100	VX043929.D	21 Nov 2024 11:40		JC/MD	Ok,M
16	VSTDICC150	VSTDICC150	VX043930.D	21 Nov 2024 12:03		JC/MD	Ok,M
17	IBLK	IBLK	VX043931.D	21 Nov 2024 12:27		JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX112124

Review By	John Carlone	Review On	11/21/2024 9:44:50 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/22/2024 3:34:00 PM		
SubDirectory	VX112124	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131686,VP131690
Initial Calibration Stds	VP131716,VP131717,VP131718,VP131719,VP131720,VP131721
CCC	VP131691
Internal Standard/PEM	
ICV/I.BLK	VP131722
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	VSTDICV050	ICVVX112124	VX043932.D	21 Nov 2024 13:57		JC/MD	Ok,M
19	VX1121MBL01	VX1121MBL01	VX043933.D	21 Nov 2024 14:27		JC/MD	Ok
20	VX1121WBL01	VX1121WBL01	VX043934.D	21 Nov 2024 14:50		JC/MD	Ok
21	VX1121WBS01	VX1121WBS01	VX043935.D	21 Nov 2024 15:13		JC/MD	Ok,M
22	VX1121WBSD01	VX1121WBSD01	VX043936.D	21 Nov 2024 15:40		JC/MD	Ok,M
23	P4921-01	WC-11-A-202411	VX043937.D	21 Nov 2024 16:03	vial B pH#5.0	JC/MD	Ok
24	P4934-01	TB-01-20241118	VX043938.D	21 Nov 2024 16:27	vial A pH<2 TB;	JC/MD	Ok
25	P4934-09	FB-01-20241119	VX043939.D	21 Nov 2024 16:50	vial A pH<2 FB;	JC/MD	Ok
26	P4934-11	RB-01-20241119	VX043940.D	21 Nov 2024 17:13	vial A pH<2	JC/MD	Ok
27	P4934-02	BPOW6-11-20241118	VX043941.D	21 Nov 2024 17:36	vial A pH<2	JC/MD	Ok
28	P4934-03	BPOW6-7-20241118	VX043942.D	21 Nov 2024 17:59	vial A pH<2	JC/MD	Ok
29	P4934-08	BPOW6-9-20241119	VX043943.D	21 Nov 2024 18:23	vial A pH<2	JC/MD	Ok
30	P4934-10	BPOW6-8-20241119	VX043944.D	21 Nov 2024 18:46	vial A pH<2	JC/MD	Ok
31	P4934-04	DUP-01-20241118	VX043945.D	21 Nov 2024 19:09	vial A pH<2	JC/MD	Ok
32	P4934-12	DUP-02-20241119	VX043946.D	21 Nov 2024 19:32	vial A pH<2	JC/MD	Ok
33	P4934-05	BPOW6-10-20241119	VX043947.D	21 Nov 2024 19:55	vial A pH<2	JC/MD	Ok
34	VSTDCCC050	VSTDCCC050EC	VX043948.D	21 Nov 2024 20:18		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX112724

Review By	John Carlone	Review On	12/2/2024 10:20:52 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/2/2024 10:24:46 AM		
SubDirectory	VX112724	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131824
Initial Calibration Stds	
CCC	VP131825,VP131826
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX044023.D	27 Nov 2024 07:52		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX044024.D	27 Nov 2024 08:46	V13516	JC/MD	Ok,M
3	VX1127MBL01	VX1127MBL01	VX044025.D	27 Nov 2024 09:15		JC/MD	Ok
4	VX1127WBL01	VX1127WBL01	VX044026.D	27 Nov 2024 09:38		JC/MD	Ok
5	VX1127MBS01	VX1127MBS01	VX044027.D	27 Nov 2024 10:01		JC/MD	Ok,M
6	VX1127WBS01	VX1127WBS01	VX044028.D	27 Nov 2024 10:27		JC/MD	Ok,M
7	P5006-18	TW-WTS-02	VX044029.D	27 Nov 2024 10:50		JC/MD	Ok
8	PB165270TB	PB165270TB	VX044030.D	27 Nov 2024 11:13		JC/MD	Ok
9	P5001-01	SPLP-C1-1	VX044031.D	27 Nov 2024 11:36	vial A pH#6.0 Surrogate fail;BSD failed low	JC/MD	ReRun
10	P5001-02	SPLP-C1-2	VX044032.D	27 Nov 2024 11:59	vial A pH#6.0 Surrogate fail;BSD failed low	JC/MD	ReRun
11	P5001-03	SPLP-C1-3	VX044033.D	27 Nov 2024 12:22	vial A pH#6.0 Surrogate fail;BSD failed low	JC/MD	ReRun
12	P5001-04	SPLP-C2-1	VX044034.D	27 Nov 2024 12:45	vial A pH#6.0 Surrogate fail;BSD failed low	JC/MD	ReRun
13	P5001-05	SPLP-C2-2	VX044035.D	27 Nov 2024 13:08	vial A pH#6.0 Surrogate fail;BSD failed low;Need 10X	JC/MD	Dilution
14	P5001-06	SPLP-C2-3	VX044036.D	27 Nov 2024 13:31	vial A pH#6.0 Surrogate fail;BSD failed low;Need 10X	JC/MD	Dilution
15	P5001-08	SPLP-C3-1	VX044037.D	27 Nov 2024 13:54	vial A pH#6.0 E Flag in Previous Sample;Surrogate fail;BSD failed low	JC/MD	ReRun
16	P5001-09	SPLP-C3-2	VX044038.D	27 Nov 2024 14:16	vial A pH#6.0 Surrogate fail;BSD failed low;Need 10X	JC/MD	Dilution

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Review By	John Carlone	Review On	12/2/2024 10:20:52 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/2/2024 10:24:46 AM		
SubDirectory	VX112724	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131824
Initial Calibration Stds	
CCC	VP131825,VP131826
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P5001-10	SPLP-C3-3	VX044039.D	27 Nov 2024 14:39	vial A pH#6.0 Surrogate fail;BSD failed low;Need 10X	JC/MD	Dilution
18	P5001-11	SPLP-C4-1	VX044040.D	27 Nov 2024 15:02	vial A pH#6.0 Surrogate fail;BSD failed low	JC/MD	ReRun
19	VX1127WBSD01	VX1127WBSD01	VX044041.D	27 Nov 2024 15:25	Recovery failed low for comp. #44,60,71 and failed high for comp. #95	JC/MD	Ok,M
20	VX1127MBSD01	VX1127MBSD01	VX044042.D	27 Nov 2024 15:48		JC/MD	Ok,M
21	P4960-05	SW3	VX044043.D	27 Nov 2024 16:11		JC/MD	Ok
22	P5021-02	MW-08	VX044044.D	27 Nov 2024 16:34	vial A pH<2 BSD failed high;Run @ Lower Dilution	JC/MD	ReRun
23	P5021-01	MW-06	VX044045.D	27 Nov 2024 16:57	vial A pH<2 BSD failed high	JC/MD	ReRun
24	P5021-03	MW-10	VX044046.D	27 Nov 2024 17:20	vial A pH<2 BSD failed high	JC/MD	ReRun
25	P5021-04	MW-11	VX044047.D	27 Nov 2024 17:43	vial A pH<2 BSD failed high	JC/MD	ReRun
26	P5021-05	MW-13	VX044048.D	27 Nov 2024 18:06	vial A pH<2 BSD failed high	JC/MD	ReRun
27	P5021-06	MW-12	VX044049.D	27 Nov 2024 18:29	vial A pH<2 BSD failed high;Need 20X	JC/MD	Dilution
28	VSTDCCC050	VSTDCCC050EC	VX044050.D	27 Nov 2024 18:52		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY111924

Review By	Mahesh Dadoda	Review On	11/20/2024 1:01:03 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/20/2024 1:03:18 PM		
SubDirectory	VY111924	HP Acquire Method		HP Processing Method	82y111924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131638
Initial Calibration Stds	VP131639,VP131640,VP131641,VP131642,VP131643,VP131644
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP131645
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020337.D	19 Nov 2024 14:40		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY020338.D	19 Nov 2024 15:49		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY020339.D	19 Nov 2024 16:12		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY020340.D	19 Nov 2024 16:35		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY020341.D	19 Nov 2024 16:57	Comp.#3 is on Linear Regression	SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY020342.D	19 Nov 2024 17:20	Comp.#11 is on Quadratic Regression	SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY020343.D	19 Nov 2024 17:42		SY/MD	Ok,M
8	VIBLK	VIBLK	VY020344.D	19 Nov 2024 18:06		SY/MD	Ok
9	VSTDICV050	ICVVY111924	VY020345.D	19 Nov 2024 18:52		SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY112224

Review By	Mahesh Dadoda	Review On	11/25/2024 2:01:45 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/25/2024 2:05:55 PM
SubDirectory	VY112224	HP Acquire Method	HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk	VP131732
Initial Calibration Stds	
CCC	VP131733,VP131734
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020400.D	22 Nov 2024 08:56		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020401.D	22 Nov 2024 09:40		SY/MD	Ok,M
3	VY1122SBL01	VY1122SBL01	VY020402.D	22 Nov 2024 10:15		SY/MD	Ok
4	VY1122SBS01	VY1122SBS01	VY020403.D	22 Nov 2024 10:42	BS failed low	SY/MD	Not Ok
5	VY1122SBS02	VY1122SBS02	VY020404.D	22 Nov 2024 11:04		SY/MD	Ok,M
6	P4936-01RE	PL-01-11202024RE	VY020405.D	22 Nov 2024 11:38	vial-B ISTD Fail	SY/MD	Confirms
7	P4892-02	WB-310-BOT	VY020406.D	22 Nov 2024 12:01	vial-B BS failed low for comp. #3,28	SY/MD	Ok
8	P4954-03	TR-06-112124	VY020407.D	22 Nov 2024 12:53	vial-A BS failed low for comp. #3,28; Internal Standard Fail	SY/MD	ReRun
9	P4948-03	72-11944	VY020408.D	22 Nov 2024 13:16	vial-A	SY/MD	ReRun
10	P4948-01	337	VY020409.D	22 Nov 2024 13:39	vial-A	SY/MD	Ok
11	P4951-02	AU-05-112124	VY020410.D	22 Nov 2024 14:03	vial-A BS failed low for comp. #3,28; Internal Standard Fail	SY/MD	ReRun
12	P4954-01	TR-05-112124	VY020411.D	22 Nov 2024 14:26	vial-A Internal Standard Fail	SY/MD	Ok,M
13	P4946-02	BW-2	VY020412.D	22 Nov 2024 14:50	vial-A Internal Standard Fail	SY/MD	ReRun
14	P4946-01	BW-1	VY020413.D	22 Nov 2024 15:13	vial-A	SY/MD	Ok
15	P4960-01	B1	VY020414.D	22 Nov 2024 15:36	vial-A	SY/MD	Ok
16	P4960-02	B2	VY020415.D	22 Nov 2024 16:00	vial-A	SY/MD	Ok
17	P4960-03	SW1	VY020416.D	22 Nov 2024 16:23	vial-A NOT PURGE	SY/MD	Not Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY112224

Review By	Mahesh Dadoda	Review On	11/25/2024 2:01:45 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/25/2024 2:05:55 PM
SubDirectory	VY112224	HP Acquire Method	HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk	VP131732
Initial Calibration Stds	
CCC	VP131733,VP131734
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P4960-04	SW2	VY020417.D	22 Nov 2024 16:47	vial-A NOT PURGE	SY/MD	Not Ok
19	P4960-05	SW3	VY020418.D	22 Nov 2024 17:10	vial-A NOT PURGE	SY/MD	Not Ok
20	P4960-06	SW4	VY020419.D	22 Nov 2024 17:33	vial-A NOT PURGE	SY/MD	Not Ok
21	VIBLK	VIBLK	VY020420.D	22 Nov 2024 17:57		SY/MD	Ok
22	VSTDCCC050	VSTDCCC050EC	VY020421.D	22 Nov 2024 18:20		SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY112524

Review By	Mahesh Dadoda	Review On	11/26/2024 9:43:29 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/26/2024 9:46:12 AM		
SubDirectory	VY112524	HP Acquire Method	MSVOA_Y	HP Processing Method	82y10311924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131777
Initial Calibration Stds	
CCC	VP131785,VP131786
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020422.D	25 Nov 2024 09:01		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020423.D	25 Nov 2024 09:46		SY/MD	Ok,M
3	VY1125SBL01	VY1125SBL01	VY020424.D	25 Nov 2024 10:17		SY/MD	Ok
4	P4949-03	CONTAINMENT-STON	VY020425.D	25 Nov 2024 13:29	vial-A not purged	SY/MD	Not Ok
5	P4948-01RE	337RE	VY020426.D	25 Nov 2024 13:52	vial-B not purge	SY/MD	Not Ok
6	P4948-03	72-11944	VY020427.D	25 Nov 2024 14:15	vial-B	SY/MD	Ok
7	P4949-03	CONTAINMENT-STON	VY020428.D	25 Nov 2024 14:39	vial-B	SY/MD	Ok
8	VIBLK	VIBLK	VY020429.D	25 Nov 2024 15:02	NOT PURGE	SY/MD	Not Ok
9	VY1125SBS01	VY1125SBS01	VY020430.D	25 Nov 2024 15:24	Recovery failed	SY/MD	Not Ok
10	VY1125SBS02	VY1125SBS02	VY020431.D	25 Nov 2024 15:47		SY/MD	Ok,M
11	P4951-02RE	AU-05-112124RE	VY020432.D	25 Nov 2024 16:10	vial-B Internal Standard Fail	SY/MD	Confirms
12	P4960-03	SW1	VY020433.D	25 Nov 2024 16:34	vial-B	SY/MD	Ok
13	P4960-04	SW2	VY020434.D	25 Nov 2024 16:57	vial-B Internal Standard Fail	SY/MD	Ok
14	P4960-05	SW3	VY020435.D	25 Nov 2024 17:20	vial-B NOT PURGE	SY/MD	Not Ok
15	P4960-06	SW4	VY020436.D	25 Nov 2024 17:44	vial-B Internal Standard Fail; Surrogate fail	SY/MD	Ok
16	P4971-01	CL-02-112224	VY020437.D	25 Nov 2024 18:07	vial-A Internal Standard Fail	SY/MD	Ok
17	P4954-03RE	TR-06-112124RE	VY020438.D	25 Nov 2024 18:31	vial-B Internal Standard Fail	SY/MD	Confirms

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Fax : 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY112524

Review By	Mahesh Dadoda	Review On	11/26/2024 9:43:29 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/26/2024 9:46:12 AM		
SubDirectory	VY112524	HP Acquire Method	MSVOA_Y	HP Processing Method	82y10311924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131777
Initial Calibration Stds	
CCC	VP131785,VP131786
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P4954-01	TR-05-112124	VY020439.D	25 Nov 2024 18:54	vial-B NOT PURGE	SY/MD	Not Ok
19	P4946-02	BW-2	VY020440.D	25 Nov 2024 19:17	vial-B	SY/MD	Ok
20	VY1125SBSD02	VY1125SBSD02	VY020441.D	25 Nov 2024 19:40		SY/MD	Ok,M
21	VSTDCCC050	VSTDCCC050EC	VY020442.D	25 Nov 2024 20:03		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 11/22/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 11/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133580

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4952-07	GAS-BUR-1621	1	1.00	1.00	2.00	2.00	100.0	oil sample
P4958-05	SVOC-GPC-BLANK	22	1.00	1.00	2.00	2.00	100.0	
P4958-06	PEST-GPC-BLANK	23	1.00	1.00	2.00	2.00	100.0	
P4958-07	PEST-GPC-BLANK-SPIKE	24	1.00	1.00	2.00	2.00	100.0	
P4958-08	PCB-GPC-BLANK	25	1.00	1.00	2.00	2.00	100.0	
P4958-09	PCB-GPC-BLANK-SPIKE	26	1.00	1.00	2.00	2.00	100.0	
P4958-10	SVOC-GPC2-BLANK	27	1.00	1.00	2.00	2.00	100.0	
P4958-11	PEST-GPC2-BLANK	28	1.00	1.00	2.00	2.00	100.0	
P4958-12	PEST-GPC2-BLANK-SPIKE	29	1.00	1.00	2.00	2.00	100.0	
P4958-13	PCB-GPC2-BLANK	30	1.00	1.00	2.00	2.00	100.0	
P4958-14	PCB-GPC2-BLANK-SPIKE	31	1.00	1.00	2.00	2.00	100.0	
P4960-01	B1	2	1.18	8.70	9.88	9.66	97.5	
P4960-02	B2	3	1.12	8.65	9.77	9.22	93.6	
P4960-03	SW1	4	1.15	8.79	9.94	9.47	94.7	
P4960-04	SW2	5	1.16	8.71	9.87	8.99	89.9	
P4960-05	SW3	6	1.19	8.62	9.81	9.41	95.4	
P4960-06	SW4	7	1.17	8.80	9.97	9.66	96.5	
P4970-01	34565	8	1.00	1.00	2.00	2.00	100.0	oil sample
P4970-03	20565	9	1.00	1.00	2.00	2.00	100.0	debris
P4971-01	CL-02-112224	10	1.15	8.70	9.85	8.21	81.1	
P4971-02	CL-02-112224-E2	11	1.15	8.83	9.98	8.62	84.6	
P4972-06	912-D	12	1.00	1.00	2.00	2.00	100.0	debris
P4973-01	OD-COMP	13	1.17	8.40	9.57	7.52	75.6	
P4973-02	OD-1	14	1.18	8.58	9.76	8.56	86.0	
P4973-03	OD-2	15	1.14	8.63	9.77	9.5	96.9	
P4973-04	OD-3	16	1.14	8.84	9.98	7.18	68.3	
P4973-05	OD-4	17	1.16	8.83	9.99	5.57	49.9	
P4975-01	01A-01B-01C	18	1.00	1.00	2.00	2.00	100.0	caluk

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 11/22/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 11/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133580

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4975-02	02A-02B-02C	19	1.00	1.00	2.00	2.00	100.0	caluk
P4975-03	03A-03B-03C	20	1.00	1.00	2.00	2.00	100.0	caluk
P4975-04	04A-04B-04C	21	1.00	1.00	2.00	2.00	100.0	caluk

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 133580 VB133580

WorkList Name : %1-112224 **WorkList ID :** 185675 **Department :** Wet-Chemistry **Date :** 11-22-2024 08:18:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4952-07	GAS-BUR-1621	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/21/2024	Chemtech -SO
P4958-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/22/2024	Chemtech -SO
P4958-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/22/2024	Chemtech -SO
P4958-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/22/2024	Chemtech -SO
P4958-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/22/2024	Chemtech -SO
P4958-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/22/2024	Chemtech -SO
P4958-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/22/2024	Chemtech -SO
P4958-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/22/2024	Chemtech -SO
P4958-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/22/2024	Chemtech -SO
P4958-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/22/2024	Chemtech -SO
P4958-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/22/2024	Chemtech -SO
P4960-01	B1	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/22/2024	Chemtech -SO
P4960-02	B2	Solid	Percent Solids	Cool 4 deg C	CLOU03	M11	11/21/2024	Chemtech -SO
P4960-03	SW1	Solid	Percent Solids	Cool 4 deg C	CLOU03	M11	11/21/2024	Chemtech -SO
P4960-04	SW2	Solid	Percent Solids	Cool 4 deg C	CLOU03	M11	11/21/2024	Chemtech -SO
P4960-05	SW3	Solid	Percent Solids	Cool 4 deg C	CLOU03	M11	11/21/2024	Chemtech -SO
P4960-06	SW4	Solid	Percent Solids	Cool 4 deg C	CLOU03	M11	11/21/2024	Chemtech -SO
P4970-01	34565	Solid	Percent Solids	Cool 4 deg C	CLOU03	M11	11/21/2024	Chemtech -SO
P4970-03	20565	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/22/2024	Chemtech -SO
P4971-01	CL-02-112224	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/22/2024	Chemtech -SO
P4971-02	CL-02-112224-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L51	11/22/2024	Chemtech -SO

Date/Time 11-22-24 16:00

Raw Sample Received by: JB WEC

Raw Sample Relinquished by:

Date/Time 11-22-24 17:30

Raw Sample Received by:

Raw Sample Relinquished by: JB WEC

WORKLIST(Hardcopy Internal Chain)

B35580

WorkList Name : %1-112224 **WorkList ID :** 185675 **Department :** Wet-Chemistry **Date :** 11-22-2024 08:18:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4972-06	912-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/22/2024	Chemtech -SO
P4973-01	OD-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/22/2024	Chemtech -SO
P4973-02	OD-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/22/2024	Chemtech -SO
P4973-03	OD-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/22/2024	Chemtech -SO
P4973-04	OD-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/22/2024	Chemtech -SO
P4973-05	OD-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/22/2024	Chemtech -SO
P4975-01	01A-01B-01C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L61	11/22/2024	Chemtech -SO
P4975-02	02A-02B-02C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L61	11/22/2024	Chemtech -SO
P4975-03	03A-03B-03C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L61	11/22/2024	Chemtech -SO
P4975-04	04A-04B-04C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L61	11/22/2024	Chemtech -SO

Date/Time 11.22.24 16:00
Raw Sample Received by:
Raw Sample Relinquished by:

Date/Time 11.22.24 17:30
Raw Sample Received by:
Raw Sample Relinquished by:

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P4960
QUOTE NO.
COC Number 2041761

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CHA Consulting, Inc
ADDRESS: 3 Winners Circle Suite 100
CITY Albany STATE: NY ZIP: ~~12205~~ 12205
ATTENTION: Scott Smith
PHONE: 3152577250 FAX: N/A

CLIENT PROJECT INFORMATION

PROJECT NAME: OMH Tank Pull - 011
PROJECT NO.: 078673 LOCATION: South Beach PC
PROJECT MANAGER: Scott Smith
e-mail: SSmith2@chasolutions.com
PHONE: 3154271033 FAX:

CLIENT BILLING INFORMATION

BILL TO: invoices@chasolutions.com PO#: 67867301 C/07
ADDRESS: see NTP
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☑ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other
☐ EDD FORMAT

ANALYSIS

1 CP-51 VOCs 8260
2 CP-51 SVOCs 8270
3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	B1	S		X	11/21	1105	2	X	X								
2.	B2	S		X		1210	2	X	X								
3.	SW1	S		X		1100	2	X	X								
4.	SW2	S		X		1115	2	X	X								
5.	SW3	S		X		1135	2	X	X								
6.	SW4	S		X	↓	1155	2	X	X								
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	11/21/24 1515	1.
2. FedEx	11-22-24 1005	2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 1.3C °C
Comments:

Page 1 of 1

CLIENT: ☐ Hand Delivered ☑ Other FedEx
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

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

Laboratory Certification

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4960 CLOU03
Client Name : CHA Companies, Inc.
Client Contact : Scott Smith
Invoice Name : CHA Companies, Inc.
Invoice Contact : Scott Smith

Order Date : 11/22/2024 10:42:00 AM
Project Name : OMH Tank Pull-011 - 0786'
Receive DateTime : 11/22/2024 10:05:00 AM
Purchase Order :

Project Mgr : Kiran
Report Type : Level 1
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff : 11/22/2024 11:13:25 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4960-01	B1	Solid	11/21/2024	11:05					
					VOCMS Group1		8260D	10 Bus. Days	
P4960-02	B2	Solid	11/21/2024	12:10					
					VOCMS Group1		8260D	10 Bus. Days	
P4960-03	SW1	Solid	11/21/2024	11:00					
					VOCMS Group1		8260D	10 Bus. Days	
P4960-04	SW2	Solid	11/21/2024	11:15					
					VOCMS Group1		8260D	10 Bus. Days	
P4960-05	SW3	Solid	11/21/2024	11:35					
					VOCMS Group1		8260D	10 Bus. Days	
P4960-06	SW4	Solid	11/21/2024	11:55					
					VOCMS Group1		8260D	10 Bus. Days	

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4960 CLOU03
Client Name : CHA Companies, Inc.
Client Contact : Scott Smith
Invoice Name : CHA Companies, Inc.
Invoice Contact : Scott Smith

Order Date : 11/22/2024 10:42:00 AM
Project Name : OMH Tank Pull-011 - 0786
Receive DateTime : 11/22/2024 10:05:00 AM
Purchase Order :

Project Mgr : Kiran
Report Type : Level 1
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff : 11/22/2024 11:13:25 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By :
Date / Time : 11/22/24 1130

Received By :
Date / Time : 11/22/24 11:30
Storage Area : VOA Refridgerator Room