284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Cover Page

Order ID : P5279

Project ID : MTA Rockaway Park

Client : Tully Construction Co., Inc.

Lab Sample Number	Client Sample Number
P5279-01	ROCKAWAY-PARK
P5279-02	ROCKAWAY-PARK
P5279-03	ROCKAWAY-PARK

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: 12/21/2024

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 #: **P5279**

	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: **KETAN PATEL** **Date:** **12/21/2024**

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LAB CHRONICLE

OrderID:	P5279	**OrderDate:**	12/13/2024 12:03:00 PM
Client:	Tully Construction Co., Inc.	**Project:**	MTA Rockaway Park
Contact:	Dean Devoe	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5279-03	**ROCKAWAY-PARK**	**SOIL**			**12/13/24**			**12/13/24**
			VOC-TCLVOA-10	8260D			12/20/24	

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Hit Summary Sheet
SW-846

SDG No.: P5279

Client: Tully Construction Co., Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**ROCKAWAY-PARK**							
P5279-03	ROCKAWAY-PARI	SOIL	Methylene Chloride	0.0050	J	0.0037	0.011	mg/Kg
			Total Voc :	0.0050				
P5279-03	ROCKAWAY-PARI	SOIL	4-(2-Acetylamino-1-(trimethyls *	10.2	J	0	0	ug/Kg
			Total Tics :	10.2				
			Total Concentration:	10.2				

QC SUMMARY

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Surrogate Summary

SDG No.: P5279

Client: Tully Construction Co., Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P5279-03	ROCKAWAY-PARK	1,2-Dichloroethane-d4	50	50.3	100	50	163
		Dibromofluoromethane	50	44.7	89	54	147
		Toluene-d8	50	48.7	97	58	134
		4-Bromofluorobenzene	50	32.3	65	29	146
VY1220SBL01	VY1220SBL01	1,2-Dichloroethane-d4	50	49.0	98	50	163
		Dibromofluoromethane	50	50.7	101	54	147
		Toluene-d8	50	49.8	100	58	134
		4-Bromofluorobenzene	50	44.5	89	29	146
VY1220SBS01	VY1220SBS01	1,2-Dichloroethane-d4	50	43.1	86	50	163
		Dibromofluoromethane	50	46.1	92	54	147
		Toluene-d8	50	46.6	93	58	134
		4-Bromofluorobenzene	50	44.2	88	29	146
VY1220SBSD01	VY1220SBSD01	1,2-Dichloroethane-d4	50	53.0	106	50	163
		Dibromofluoromethane	50	52.0	104	54	147
		Toluene-d8	50	53.9	108	58	134
		4-Bromofluorobenzene	50	51.6	103	29	146

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5279

Client: Tully Construction Co., Inc.

Analytical Method: SW8260D **Datafile :** VY020666.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1220SBS01	Dichlorodifluoromethane	20	23.6	ug/Kg	118			64	136	
	Chloromethane	20	16.7	ug/Kg	84			70	130	
	Vinyl chloride	20	15.8	ug/Kg	79			72	129	
	Bromomethane	20	14.9	ug/Kg	75			58	141	
	Chloroethane	20	13.5	ug/Kg	68		*	69	130	
	Trichlorofluoromethane	20	16.6	ug/Kg	83			69	134	
	1,1,2-Trichlorotrifluoroethane	20	16.0	ug/Kg	80		*	81	123	
	1,1-Dichloroethene	20	16.1	ug/Kg	81			79	121	
	Acetone	100	63.0	ug/Kg	63			60	131	
	Carbon disulfide	20	17.4	ug/Kg	87			45	154	
	Methyl tert-butyl Ether	20	19.9	ug/Kg	100			77	129	
	Methyl Acetate	20	15.2	ug/Kg	76			69	149	
	Methylene Chloride	20	17.7	ug/Kg	89			56	174	
	trans-1,2-Dichloroethene	20	21.5	ug/Kg	108			80	123	
	1,1-Dichloroethane	20	21.4	ug/Kg	107			82	123	
	Cyclohexane	20	21.1	ug/Kg	106			76	122	
	2-Butanone	100	91.7	ug/Kg	92			69	131	
	Carbon Tetrachloride	20	22.4	ug/Kg	112			76	129	
	cis-1,2-Dichloroethene	20	20.9	ug/Kg	104			82	123	
	Bromochloromethane	20	17.0	ug/Kg	85			80	127	
	Chloroform	20	19.1	ug/Kg	96			82	125	
	1,1,1-Trichloroethane	20	21.7	ug/Kg	109			80	126	
	Methylcyclohexane	20	22.0	ug/Kg	110			77	123	
	Benzene	20	22.1	ug/Kg	111			84	121	
	1,2-Dichloroethane	20	21.0	ug/Kg	105			81	126	
	Trichloroethene	20	21.9	ug/Kg	110			83	122	
	1,2-Dichloropropane	20	21.9	ug/Kg	110			83	122	
	Bromodichloromethane	20	21.4	ug/Kg	107			82	123	
	4-Methyl-2-Pentanone	100	94.7	ug/Kg	95			70	135	
	Toluene	20	22.1	ug/Kg	111			83	122	
	t-1,3-Dichloropropene	20	32.4	ug/Kg	162		*	78	124	
	cis-1,3-Dichloropropene	20	21.4	ug/Kg	107			81	122	
	1,1,2-Trichloroethane	20	20.7	ug/Kg	104			82	125	
	2-Hexanone	100	98.5	ug/Kg	99			66	138	
	Dibromochloromethane	20	21.1	ug/Kg	106			79	125	
	1,2-Dibromoethane	20	21.0	ug/Kg	105			80	125	
	Tetrachloroethene	20	21.9	ug/Kg	110			83	125	
	Chlorobenzene	20	22.3	ug/Kg	112			84	122	
	Ethyl Benzene	20	22.2	ug/Kg	111			82	124	
	m/p-Xylenes	40	44.7	ug/Kg	112			83	124	
	o-Xylene	20	22.2	ug/Kg	111			83	123	
	Styrene	20	22.0	ug/Kg	110			82	124	
	Bromoform	20	20.9	ug/Kg	104			75	127	
	Isopropylbenzene	20	21.7	ug/Kg	109			82	124	
	1,1,2,2-Tetrachloroethane	20	20.8	ug/Kg	104			77	127	
	1,3-Dichlorobenzene	20	21.6	ug/Kg	108			83	122	
	1,4-Dichlorobenzene	20	21.6	ug/Kg	108			84	121	
	1,2-Dichlorobenzene	20	21.5	ug/Kg	108			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5279

Client: Tully Construction Co., Inc.

Analytical Method: SW8260D **Datafile :** VY020666.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1220SBS01	1,2-Dibromo-3-Chloropropane	20	35.0	ug/Kg	175		*	66	134	
	1,2,4-Trichlorobenzene	20	21.4	ug/Kg	107			78	127	
	1,2,3-Trichlorobenzene	20	21.3	ug/Kg	106			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5279

Client: Tully Construction Co., Inc.

Analytical Method: SW8260D **Datafile :** VY020667.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual		Limits Low	Limits High	RPD
VY1220SBSD01	Dichlorodifluoromethane	20	23.9	ug/Kg	119	1			64	136	20
	Chloromethane	20	18.3	ug/Kg	92	9			70	130	20
	Vinyl chloride	20	15.5	ug/Kg	78	1			72	129	20
	Bromomethane	20	15.1	ug/Kg	76	1			58	141	20
	Chloroethane	20	14.5	ug/Kg	73	7			69	130	20
	Trichlorofluoromethane	20	16.7	ug/Kg	84	1			69	134	20
	1,1,2-Trichlorotrifluoroethane	20	14.2	ug/Kg	71	12	*		81	123	20
	1,1-Dichloroethene	20	14.0	ug/Kg	70	15	*		79	121	20
	Acetone	100	56.1	ug/Kg	56	12	*		60	131	20
	Carbon disulfide	20	14.0	ug/Kg	70	22		*	45	154	20
	Methyl tert-butyl Ether	20	14.3	ug/Kg	72	33	*	*	77	129	20
	Methyl Acetate	20	11.9	ug/Kg	59	25	*	*	69	149	20
	Methylene Chloride	20	13.3	ug/Kg	67	28		*	56	174	20
	trans-1,2-Dichloroethene	20	14.3	ug/Kg	72	40	*	*	80	123	20
	1,1-Dichloroethane	20	13.9	ug/Kg	70	42	*	*	82	123	20
	Cyclohexane	20	21.4	ug/Kg	107	1			76	122	20
	2-Butanone	100	91.5	ug/Kg	92	0			69	131	20
	Carbon Tetrachloride	20	22.2	ug/Kg	111	1			76	129	20
	cis-1,2-Dichloroethene	20	19.0	ug/Kg	95	9			82	123	20
	Bromochloromethane	20	15.9	ug/Kg	79	7	*		80	127	20
	Chloroform	20	18.0	ug/Kg	90	6			82	125	20
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106	3			80	126	20
	Methylcyclohexane	20	21.4	ug/Kg	107	3			77	123	20
	Benzene	20	22.1	ug/Kg	111	0			84	121	20
	1,2-Dichloroethane	20	22.1	ug/Kg	111	6			81	126	20
	Trichloroethene	20	22.5	ug/Kg	113	3			83	122	20
	1,2-Dichloropropane	20	22.4	ug/Kg	112	2			83	122	20
	Bromodichloromethane	20	22.0	ug/Kg	110	3			82	123	20
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	15			70	135	20
	Toluene	20	22.1	ug/Kg	111	0			83	122	20
	t-1,3-Dichloropropene	20	21.6	ug/Kg	108	40		*	78	124	20
	cis-1,3-Dichloropropene	20	21.8	ug/Kg	109	2			81	122	20
	1,1,2-Trichloroethane	20	22.4	ug/Kg	112	7			82	125	20
	2-Hexanone	100	110	ug/Kg	110	11			66	138	20
	Dibromochloromethane	20	22.2	ug/Kg	111	5			79	125	20
	1,2-Dibromoethane	20	22.8	ug/Kg	114	8			80	125	20
	Tetrachloroethene	20	22.1	ug/Kg	111	1			83	125	20
	Chlorobenzene	20	22.4	ug/Kg	112	0			84	122	20
	Ethyl Benzene	20	22.1	ug/Kg	111	0			82	124	20
	m/p-Xylenes	40	44.3	ug/Kg	111	1			83	124	20
	o-Xylene	20	22.1	ug/Kg	111	0			83	123	20
	Styrene	20	22.3	ug/Kg	112	2			82	124	20
	Bromoform	20	22.6	ug/Kg	113	8			75	127	20
	Isopropylbenzene	20	21.5	ug/Kg	108	1			82	124	20
	1,1,2,2-Tetrachloroethane	20	22.1	ug/Kg	111	7			77	127	20
	1,3-Dichlorobenzene	20	21.4	ug/Kg	107	1			83	122	20
	1,4-Dichlorobenzene	20	21.5	ug/Kg	108	0			84	121	20
	1,2-Dichlorobenzene	20	21.5	ug/Kg	108	0			83	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5279

Client: Tully Construction Co., Inc.

Analytical Method: SW8260D **Datafile :** VY020667.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1220SBSD01	1,2-Dibromo-3-Chloropropane	20	21.2	ug/Kg	106	49	*	66	134	20
	1,2,4-Trichlorobenzene	20	20.6	ug/Kg	103	4		78	127	20
	1,2,3-Trichlorobenzene	20	20.8	ug/Kg	104	2		70	137	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1220SBL01

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P5279 SAS No.: P5279 SDG NO.: P5279

Lab File ID: VY020665.D Lab Sample ID: VY1220SBL01

Date Analyzed: 12/20/2024 Time Analyzed: 11:24

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
VY1220SBS01	VY1220SBS01	VY020666.D	12/20/2024
VY1220SBSD01	VY1220SBSD01	VY020667.D	12/20/2024
ROCKAWAY-PARK	P5279-03	VY020668.D	12/20/2024

COMMENTS:

Raw Data: **VY020611.D**

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

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P5279 SAS No.: P5279 SDG NO.: P5279

Lab File ID: VY020611.D BFB Injection Date: 12/17/2024

Instrument ID: MSVOA_Y BFB Injection Time: 09:00

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	19.8
75	30.0 - 60.0% of mass 95	52.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1 (1.3) 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	74.2 (96.3) 1
177	5.0 - 9.0% of mass 176	4.8 (6.5) 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
VSTDICC010	VSTDICC010	VY020613.D	12/17/2024	10:01
VSTDICC020	VSTDICC020	VY020614.D	12/17/2024	10:23
VSTDICCC050	VSTDICCC050	VY020615.D	12/17/2024	10:51
VSTDICC100	VSTDICC100	VY020616.D	12/17/2024	11:14
VSTDICC150	VSTDICC150	VY020617.D	12/17/2024	11:37
VSTDICC005	VSTDICC005	VY020619.D	12/17/2024	14:51

Raw Data: **VY020663.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P5279 SAS No.: P5279 SDG NO.: P5279

Lab File ID: VY020663.D BFB Injection Date: 12/20/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:37

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	20.3
75	30.0 - 60.0% of mass 95	50.6
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	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	85.2
175	5.0 - 9.0% of mass 174	6.8 (8) 1
176	95.0 - 101.0% of mass 174	81.8 (96) 1
177	5.0 - 9.0% of mass 176	5.5 (6.7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY020664.D	12/20/2024	09:09
VY1220SBL01	VY1220SBL01	VY020665.D	12/20/2024	11:24
VY1220SBS01	VY1220SBS01	VY020666.D	12/20/2024	13:12
VY1220SBSD01	VY1220SBSD01	VY020667.D	12/20/2024	13:34
ROCKAWAY-PARK	P5279-03	VY020668.D	12/20/2024	14:10

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P5279 SAS No.: P5279 SDG NO.: P5279

Lab File ID: VY020664.D Date Analyzed: 12/20/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:09

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	162547	7.71	240673	8.62	212145	11.42
UPPER LIMIT	325094	8.213	481346	9.116	424290	11.92
LOWER LIMIT	81273.5	7.213	120337	8.116	106073	10.92
EPA SAMPLE NO.						
ROCKAWAY-PARK	177087	7.71	313093	8.62	249829	11.42
VY1220SBL01	159056	7.71	246351	8.62	208495	11.41
VY1220SBS01	157442	7.71	237485	8.62	207752	11.42
VY1220SBSD01	154597	7.71	238791	8.62	207851	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: TULL02

Lab Code: CHEM Case No.: P5279 SAS No.: P5279 SDG NO.: P5279

Lab File ID: VY020664.D Date Analyzed: 12/20/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:09

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

	IS4 AREA #	RT #				
12 HOUR STD	119359	13.353				
UPPER LIMIT	238718	13.853				
LOWER LIMIT	59679.5	12.853				
EPA SAMPLE NO.						
ROCKAWAY-PARK	79004	13.35				
VY1220SBL01	109647	13.35				
VY1220SBS01	116933	13.35				
VY1220SBSD01	118816	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: **VY020668.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	12/13/24
Project:	MTA Rockaway Park	Date Received:	12/13/24
Client Sample ID:	ROCKAWAY-PARK	SDG No.:	P5279
Lab Sample ID:	P5279-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94
Sample Wt/Vol:	4.91 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020668.D	1		12/20/24 14:10	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.0018	U	0.0018	0.0054	mg/Kg
74-87-3	Chloromethane	0.0013	U	0.0013	0.0054	mg/Kg
75-01-4	Vinyl Chloride	0.00083	U	0.00083	0.0054	mg/Kg
74-83-9	Bromomethane	0.0011	U	0.0011	0.0054	mg/Kg
75-00-3	Chloroethane	0.0011	UQ	0.0011	0.0054	mg/Kg
75-69-4	Trichlorofluoromethane	0.00099	U	0.00099	0.0054	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0012	UQ	0.0012	0.0054	mg/Kg
75-35-4	1,1-Dichloroethene	0.00084	UQ	0.00084	0.0054	mg/Kg
67-64-1	Acetone	0.0068	UQ	0.0068	0.027	mg/Kg
75-15-0	Carbon Disulfide	0.0014	U	0.0014	0.0054	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.00073	UQ	0.00073	0.0054	mg/Kg
79-20-9	Methyl Acetate	0.0019	UQ	0.0019	0.0054	mg/Kg
75-09-2	Methylene Chloride	0.0050	J	0.0037	0.011	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.00091	UQ	0.00091	0.0054	mg/Kg
75-34-3	1,1-Dichloroethane	0.00068	UQ	0.00068	0.0054	mg/Kg
110-82-7	Cyclohexane	0.00075	U	0.00075	0.0054	mg/Kg
78-93-3	2-Butanone	0.0062	U	0.0062	0.027	mg/Kg
56-23-5	Carbon Tetrachloride	0.00094	U	0.00094	0.0054	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.00066	U	0.00066	0.0054	mg/Kg
74-97-5	Bromochloromethane	0.0026	UQ	0.0026	0.0054	mg/Kg
67-66-3	Chloroform	0.00073	U	0.00073	0.0054	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.00084	U	0.00084	0.0054	mg/Kg
108-87-2	Methylcyclohexane	0.00094	U	0.00094	0.0054	mg/Kg
71-43-2	Benzene	0.00078	U	0.00078	0.0054	mg/Kg
107-06-2	1,2-Dichloroethane	0.00066	U	0.00066	0.0054	mg/Kg
79-01-6	Trichloroethene	0.00081	U	0.00081	0.0054	mg/Kg
78-87-5	1,2-Dichloropropane	0.00071	U	0.00071	0.0054	mg/Kg
75-27-4	Bromodichloromethane	0.00061	U	0.00061	0.0054	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.0047	U	0.0047	0.027	mg/Kg
108-88-3	Toluene	0.00073	U	0.00073	0.0054	mg/Kg

Raw Data: **VY020668.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	12/13/24
Project:	MTA Rockaway Park	Date Received:	12/13/24
Client Sample ID:	ROCKAWAY-PARK	SDG No.:	P5279
Lab Sample ID:	P5279-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94
Sample Wt/Vol:	4.91 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020668.D	1		12/20/24 14:10	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.00065	UQ	0.00065	0.0054	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.00062	U	0.00062	0.0054	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.00091	U	0.00091	0.0054	mg/Kg
591-78-6	2-Hexanone	0.0052	U	0.0052	0.027	mg/Kg
124-48-1	Dibromochloromethane	0.00070	U	0.00070	0.0054	mg/Kg
106-93-4	1,2-Dibromoethane	0.00086	U	0.00086	0.0054	mg/Kg
127-18-4	Tetrachloroethene	0.00096	U	0.00096	0.0054	mg/Kg
108-90-7	Chlorobenzene	0.00080	U	0.00080	0.0054	mg/Kg
100-41-4	Ethyl Benzene	0.00067	U	0.00067	0.0054	mg/Kg
179601-23-1	m/p-Xylenes	0.0015	U	0.0015	0.011	mg/Kg
95-47-6	o-Xylene	0.00076	U	0.00076	0.0054	mg/Kg
100-42-5	Styrene	0.00065	U	0.00065	0.0054	mg/Kg
75-25-2	Bromoform	0.00088	U	0.00088	0.0054	mg/Kg
98-82-8	Isopropylbenzene	0.00073	U	0.00073	0.0054	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0012	U	0.0012	0.0054	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.00080	U	0.00080	0.0054	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.00087	U	0.00087	0.0054	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.00064	U	0.00064	0.0054	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0017	UQ	0.0017	0.0054	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.00086	U	0.00086	0.0054	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.00084	U	0.00084	0.0054	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		50 - 163	100%	SPK: 50
1868-53-7	Dibromofluoromethane	44.7		54 - 147	89%	SPK: 50
2037-26-5	Toluene-d8	48.7		58 - 134	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	32.3		29 - 146	65%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	177000	7.707			
540-36-3	1,4-Difluorobenzene	313000	8.616			
3114-55-4	Chlorobenzene-d5	250000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	79000	13.353			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY020668.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	12/13/24
Project:	MTA Rockaway Park	Date Received:	12/13/24
Client Sample ID:	ROCKAWAY-PARK	SDG No.:	P5279
Lab Sample ID:	P5279-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94
Sample Wt/Vol:	4.91 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020668.D	1		12/20/24 14:10	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1000373-43-5	4-(2-Acetylamino-1-(trimethylsilyl	10.2	J		13.9	ug/Kg

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\VY122024\
Data File : VY020668.D
Acq On : 20 Dec 2024 14:10
Operator : SY/MD
Sample : P5279-03
Misc : 4.91g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ROCKAWAY-PARK

Quant Time: Dec 20 18:09:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

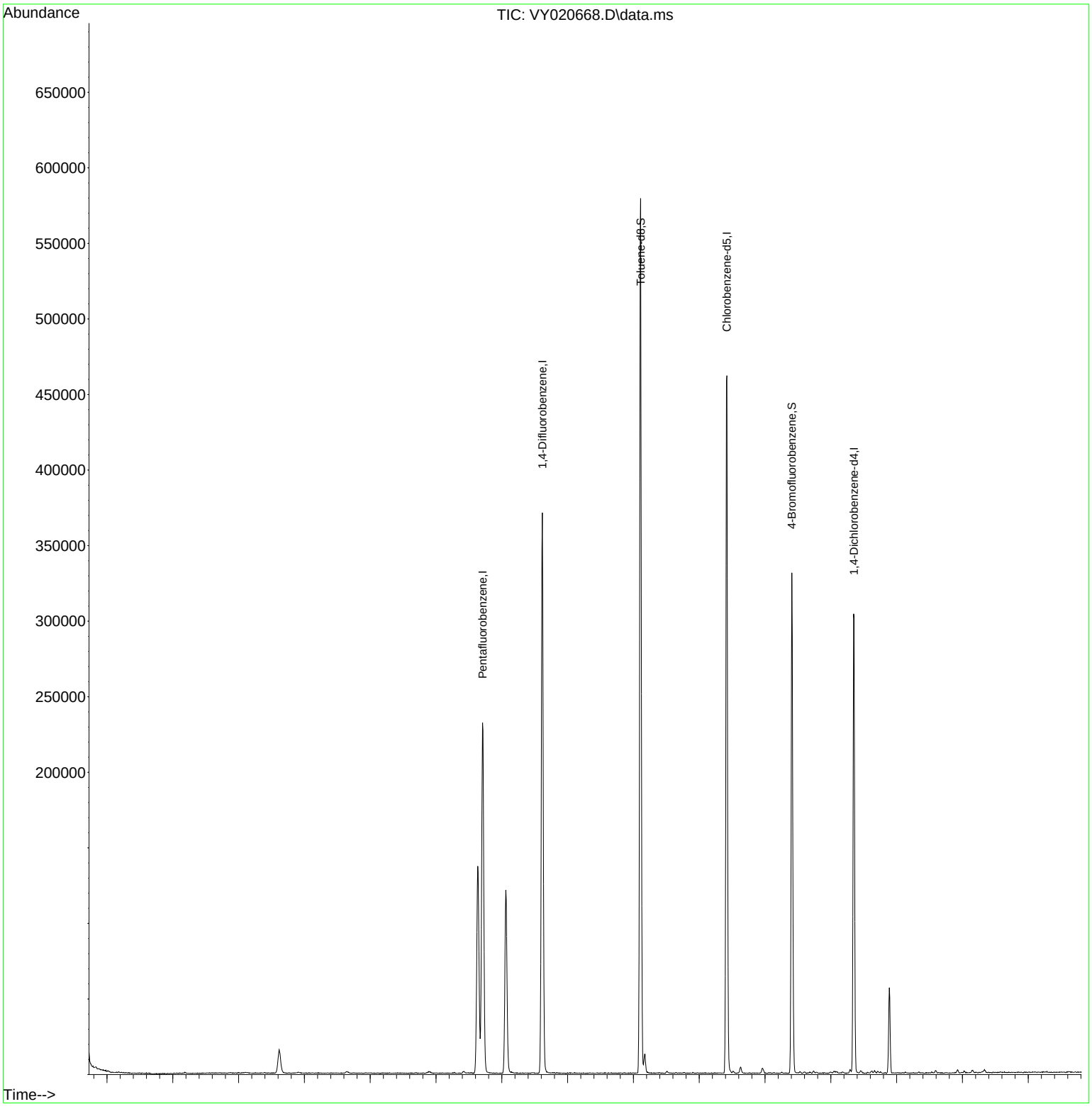
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	177087	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	313093	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	249829	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	79004	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	97456	50.249	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.500%			
35) Dibromofluoromethane	7.634	113	98718	44.738	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 89.480%			
50) Toluene-d8	10.109	98	375972	48.679	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.360%			
62) 4-Bromofluorobenzene	12.408	95	97453	32.257	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 64.520%			
Target Compounds						Qvalue
20) Methylene Chloride	4.616	84	11033	4.575	ug/l	95

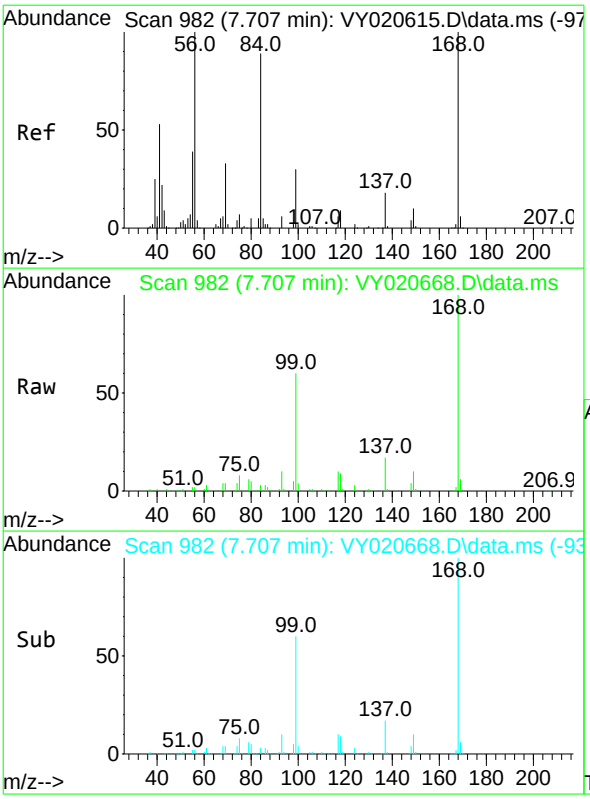
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020668.D
Acq On : 20 Dec 2024 14:10
Operator : SY/MD
Sample : P5279-03
Misc : 4.91g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ROCKAWAY-PARK

Quant Time: Dec 20 18:09:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



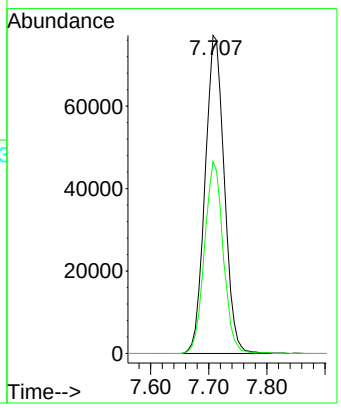


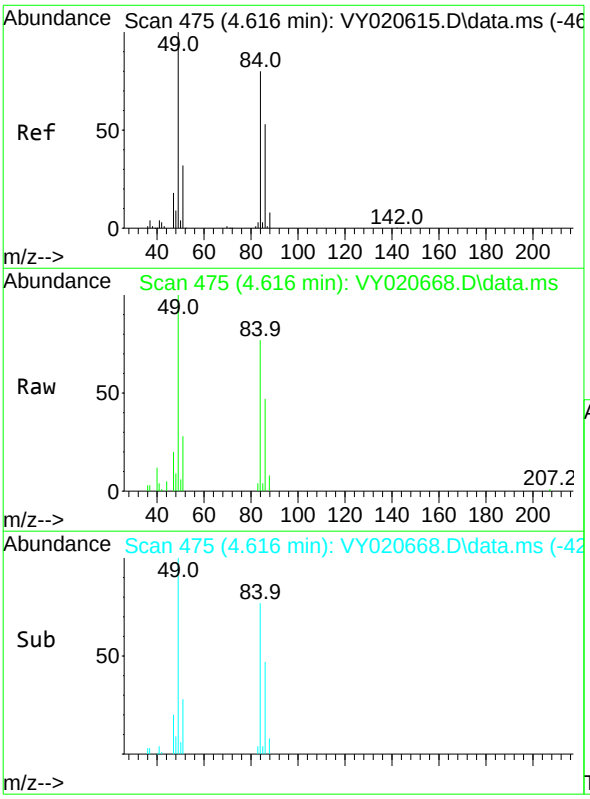
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020668.D
Acq: 20 Dec 2024 14:10

Instrument :
MSVOA_Y
ClientSampleId :
ROCKAWAY-PARK

Tgt Ion:168 Resp: 177087

Ion	Ratio	Lower	Upper
168	100		
99	60.4	47.0	70.6

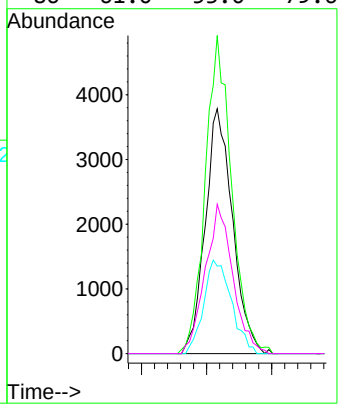


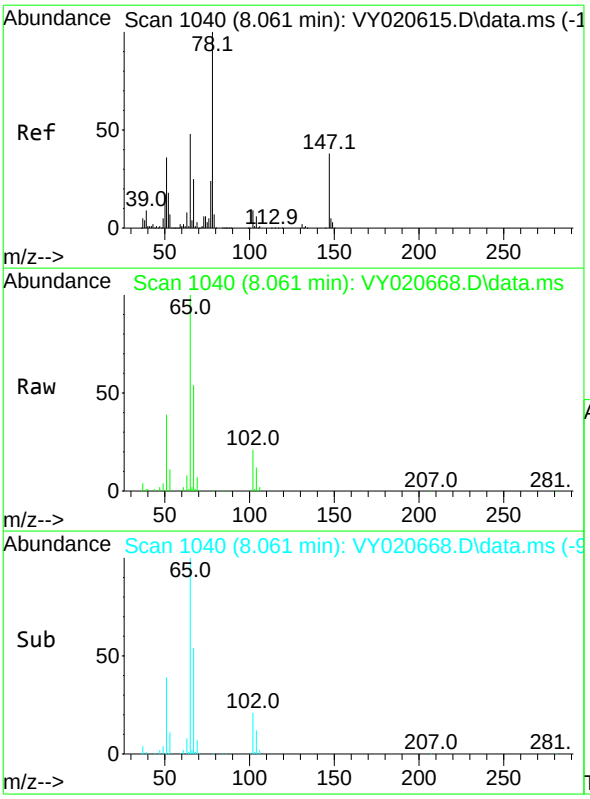


#20
Methylene Chloride
Concen: 4.575 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020668.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 84 Resp: 11033

Ion	Ratio	Lower	Upper
84	100		
49	129.9	100.7	151.1
51	35.8	32.2	48.2
86	61.0	53.0	79.6



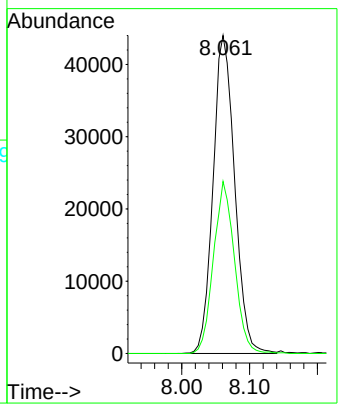


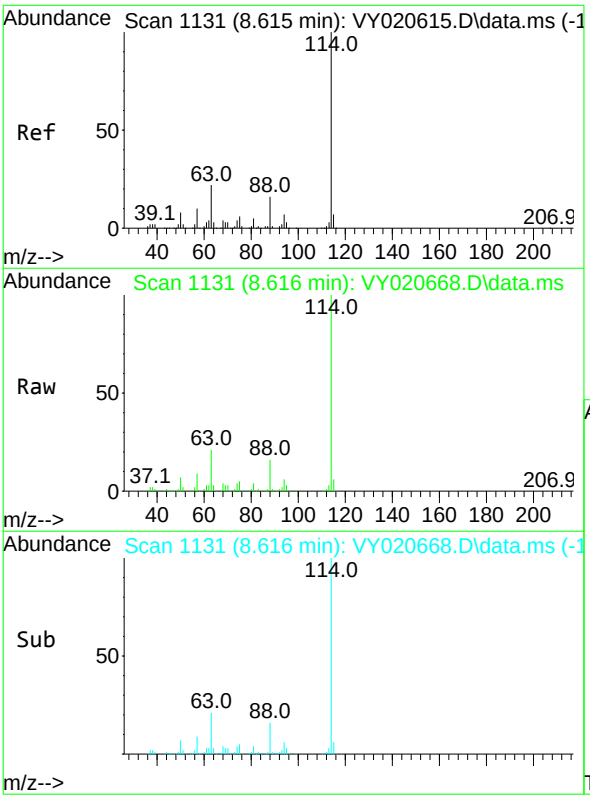
#33
1,2-Dichloroethane-d4
Concen: 50.249 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020668.D
Acq: 20 Dec 2024 14:10

Instrument :
MSVOA_Y
ClientSampleId :
ROCKAWAY-PARK

Tgt Ion: 65 Resp: 97456

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	108.0

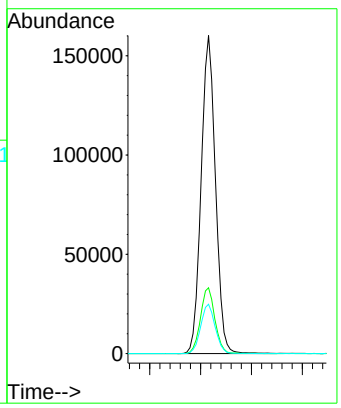


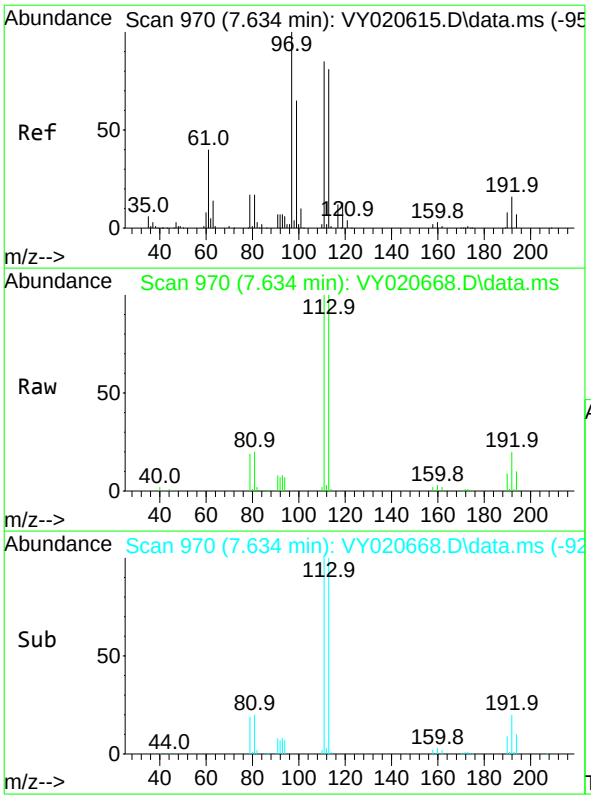


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020668.D
Acq: 20 Dec 2024 14:10

Tgt Ion:114 Resp: 313093

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	44.0
88	15.5	0.0	32.8



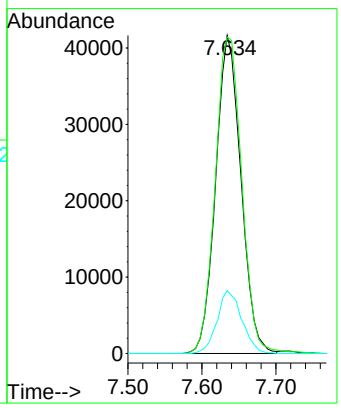


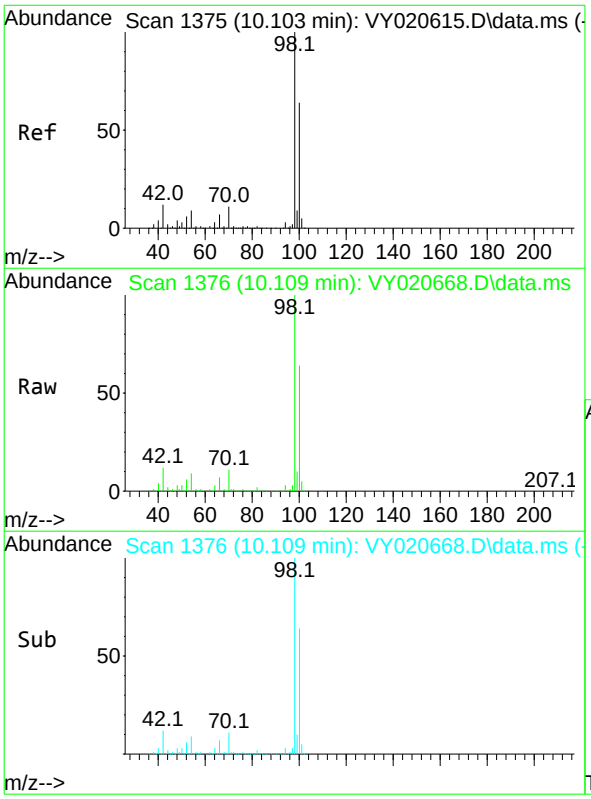
#35
Dibromofluoromethane
Concen: 44.738 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020668.D
Acq: 20 Dec 2024 14:10

Instrument :
MSVOA_Y
ClientSampleId :
ROCKAWAY-PARK

Tgt Ion:113 Resp: 98718

Ion	Ratio	Lower	Upper
113	100		
111	104.7	82.9	124.3
192	19.4	15.7	23.5

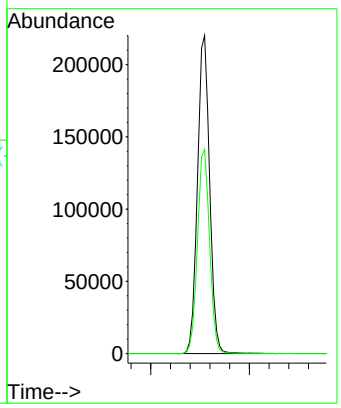


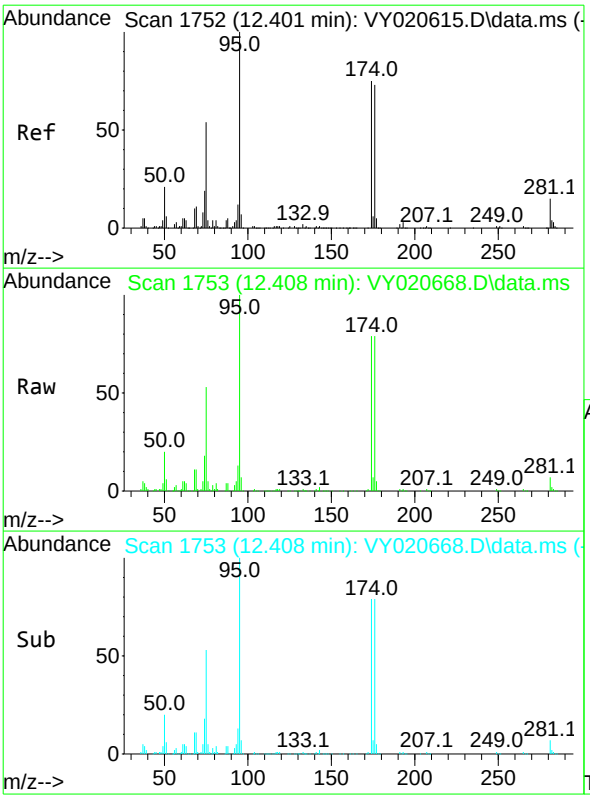


#50
Toluene-d8
Concen: 48.679 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY020668.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 98 Resp: 375972

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.1	78.1



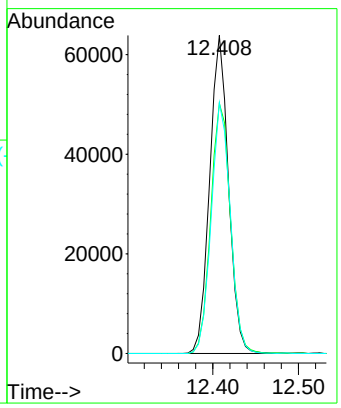


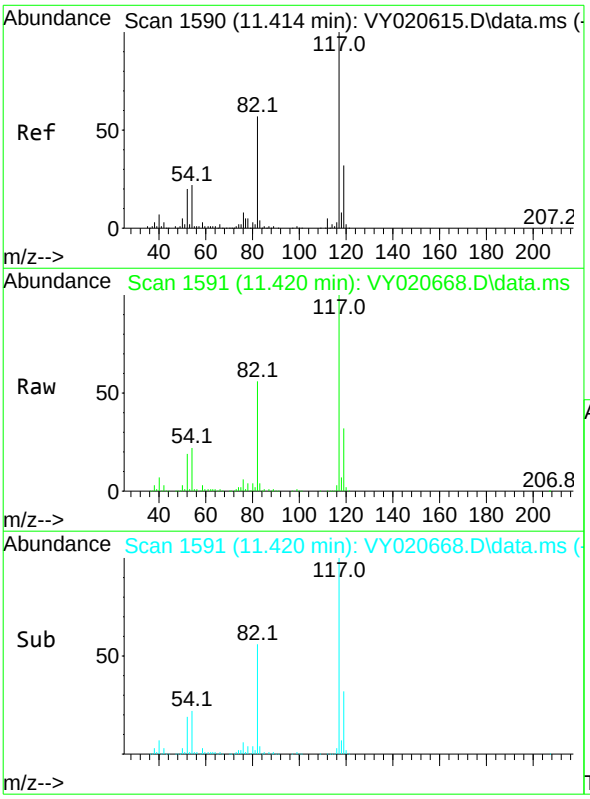
#62
4-Bromofluorobenzene
Concen: 32.257 ug/l
RT: 12.408 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020668.D
Acq: 20 Dec 2024 14:10

Instrument :
MSVOA_Y
ClientSampleId :
ROCKAWAY-PARK

Tgt Ion: 95 Resp: 97453

Ion	Ratio	Lower	Upper
95	100		
174	82.4	0.0	161.8
176	80.0	0.0	156.6

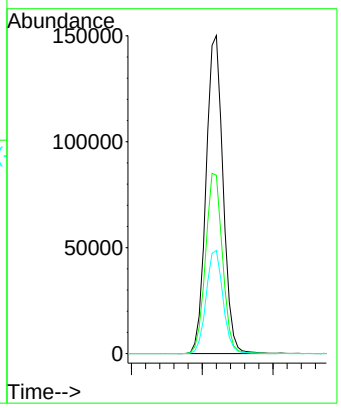


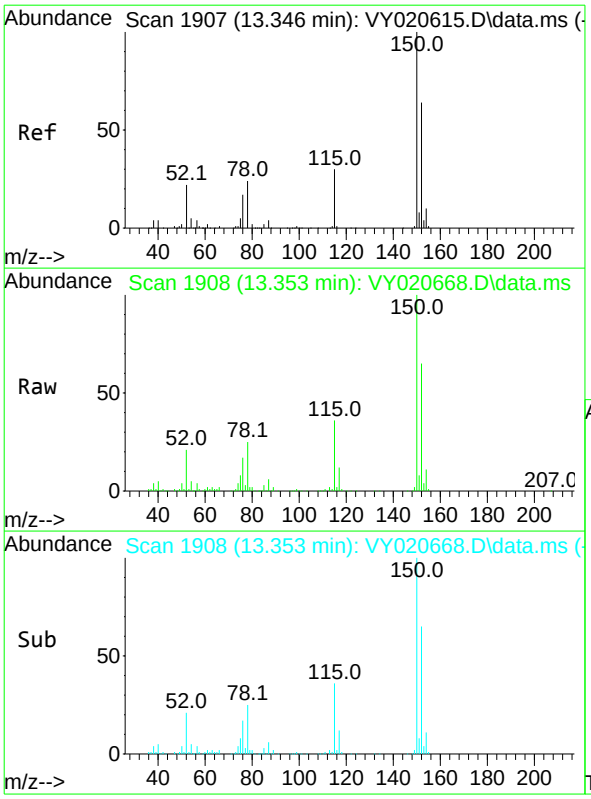


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY020668.D
Acq: 20 Dec 2024 14:10

Tgt Ion:117 Resp: 249829

Ion	Ratio	Lower	Upper
117	100		
82	56.1	45.8	68.6
119	32.4	25.3	37.9



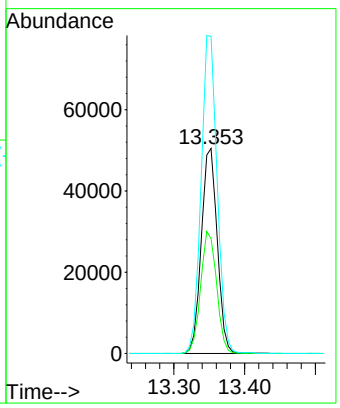


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 19
Delta R.T. 0.006 min
Lab File: VY020668.D
Acq: 20 Dec 2024 14:10

Instrument :
MSVOA_Y
ClientSampleId :
ROCKAWAY-PARK

Tgt Ion:152 Resp: 79004

Ion	Ratio	Lower	Upper
152	100		
115	59.6	30.2	90.6
150	155.8	0.0	355.4



Sample Results: **VY020668.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020668.D
Acq On : 20 Dec 2024 14:10
Operator : SY/MD
Sample : P5279-03
Misc : 4.91g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ROCKAWAY-PARK

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Title : SW846 8260

Signal : TIC: VY020668.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	464	475	486	rBV2	15363	45012	4.54%	0.934%
2	7.634	961	970	976	rBV	137027	331624	33.48%	6.884%
3	7.707	976	982	995	rVB	231568	530908	53.60%	11.020%
4	8.061	1032	1040	1053	rBV2	121204	271131	27.37%	5.628%
5	8.616	1122	1131	1142	rBV	370937	733857	74.09%	15.233%
6	10.109	1368	1376	1383	rBV	578811	990446	100.00%	20.559%
7	10.170	1383	1386	1392	rVB	12190	20618	2.08%	0.428%
8	11.420	1583	1591	1603	rBV	461561	777952	78.55%	16.149%
9	12.408	1746	1753	1762	rBV2	331176	542812	54.80%	11.268%
10	13.346	1901	1907	1916	rVB	303435	482349	48.70%	10.012%
11	13.889	1989	1996	2002	rBV2	56757	90776	9.17%	1.884%

Sum of corrected areas: 4817485

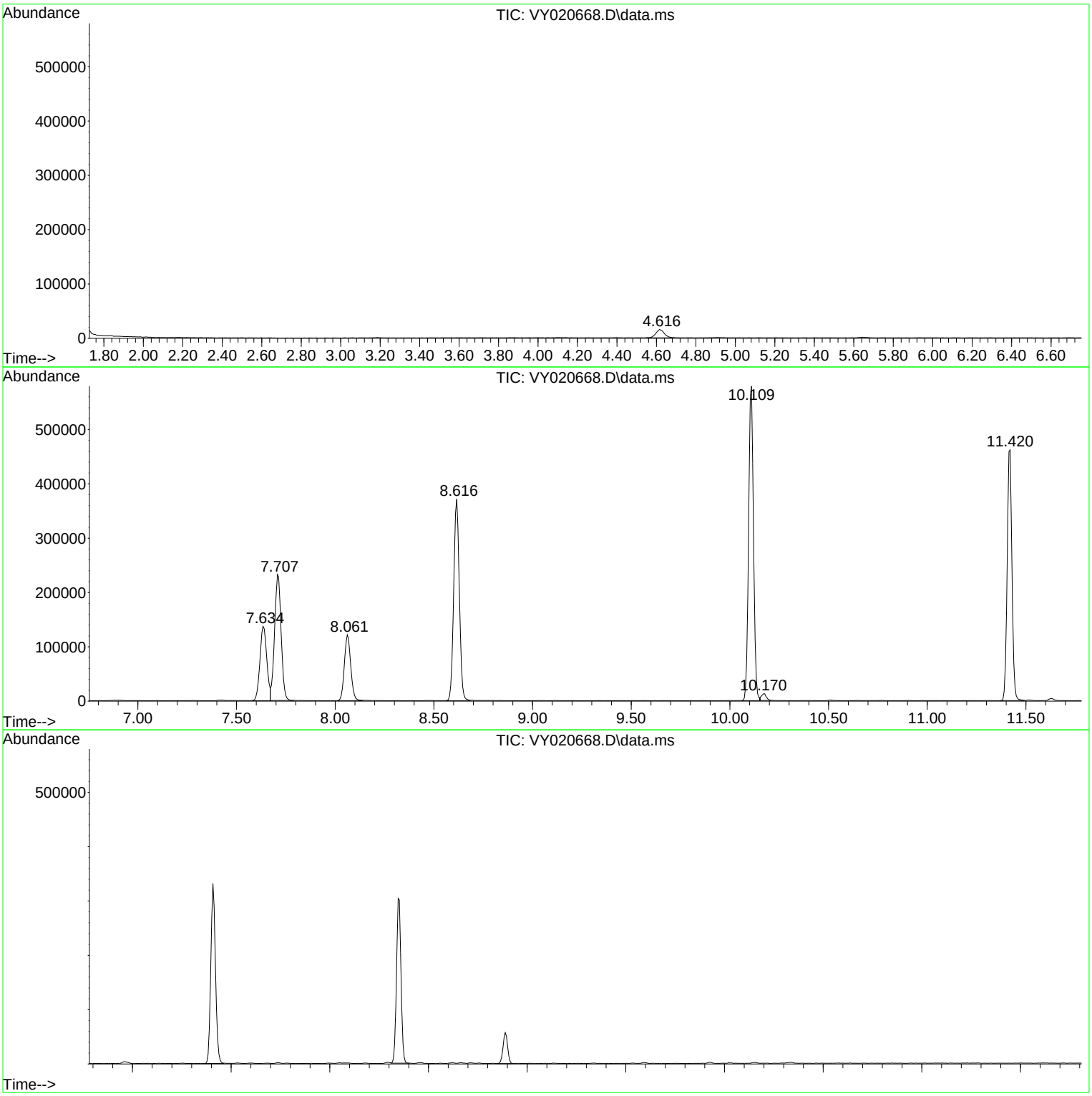
Sample Results: **VY020668.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020668.D
Acq On : 20 Dec 2024 14:10
Operator : SY/MD
Sample : P5279-03
Misc : 4.91g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ROCKAWAY-PARK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020668.D
Acq On : 20 Dec 2024 14:10
Operator : SY/MD
Sample : P5279-03
Misc : 4.91g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ROCKAWAY-PARK

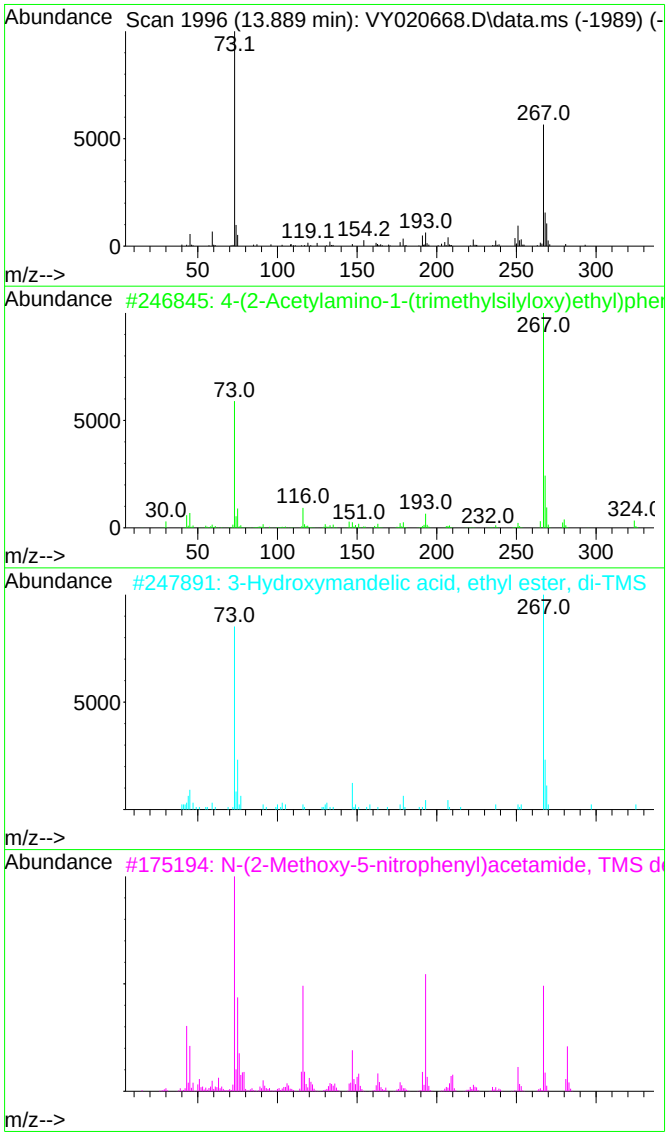
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

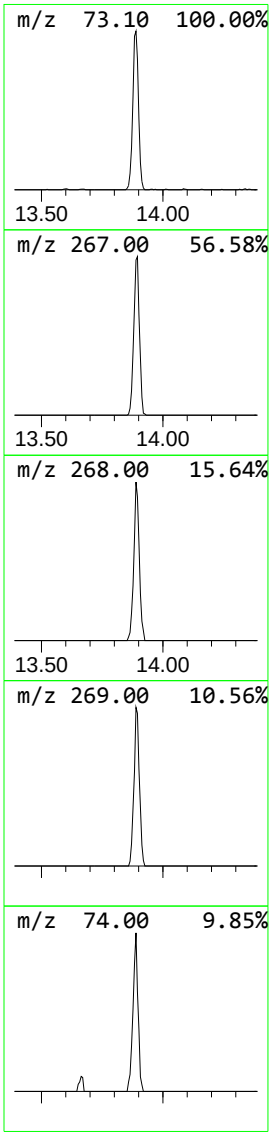
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 4-(2-Acetylamino-1-(trimeth... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	9.41 ug/l	90776	1,4-Dichlorobenzene-d4	13.353

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-(2-Acetylamino-1-(trimethylsil...	339	C16H29NO3Si2	1000373-43-5	64
2	3-Hydroxymandelic acid, ethyl es...	340	C16H28O4Si2	1000071-88-9	53
3	N-(2-Methoxy-5-nitrophenyl)aceta...	282	C12H18N2O4Si	1000510-95-0	50
4	Butanamide, 2,2,3,3,4,4,4-heptaf...	493	C18H26F7NO3Si2	055471-01-7	50
5	Ethyl 4-hydroxymandelate, 2TMS d...	340	C16H28O4Si2	1010071-53-3	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020668.D
Acq On : 20 Dec 2024 14:10
Operator : SY/MD
Sample : P5279-03
Misc : 4.91g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ROCKAWAY-PARK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
4-(2-Acetylamin...	13.889	9.4	ug/l	90776	4	13.353	482349	50.0

CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P5279 SAS No.: P5279 SDG No.: P5279

Instrument ID: MSVOA_Y Calibration Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:01 14:51

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

LAB FILE ID: RRF010 = VY020613.D RRF020 = VY020614.D RRF050 = VY020615.D
RRF100 = VY020616.D RRF150 = VY020617.D RRF005 = VY020619.D

COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.678	0.633	0.617	0.601	0.552	0.665	0.625	7.3
Chloromethane	0.490	0.506	0.428	0.426	0.372	0.555	0.463	14.3
Vinyl Chloride	0.443	0.469	0.371	0.440	0.374	0.487	0.431	11.3
Bromomethane	0.291	0.279	0.229	0.282	0.254	0.327	0.277	12.1
Chloroethane	0.273	0.287	0.212	0.272	0.251	0.302	0.266	11.8
Trichlorofluoromethane	0.981	0.954	0.791	0.878	0.810	0.993	0.901	9.7
1,1,2-Trichlorotrifluoroethane	0.715	0.659	0.603	0.649	0.537	0.712	0.646	10.5
1,1-Dichloroethene	0.701	0.637	0.589	0.638	0.528	0.667	0.627	9.7
Acetone	0.141	0.107	0.098	0.110		0.168	0.125	23.2
Carbon Disulfide	2.315	2.083	1.939	2.092	1.669	2.142	2.040	10.7
Methyl tert-butyl Ether	1.799	1.584	1.663	1.652	1.466	1.542	1.618	7.1
Methyl Acetate	0.474	0.351	0.350	0.391	0.292	0.378	0.373	16.1
Methylene Chloride	0.758	0.683	0.617	0.665	0.596	0.766	0.681	10.3
trans-1,2-Dichloroethene	0.771	0.703	0.710	0.692	0.636	0.707	0.703	6.2
1,1-Dichloroethane	1.401	1.307	1.323	1.300	1.173	1.333	1.306	5.7
Cyclohexane	1.388	1.247	1.198	1.160	1.056	1.443	1.249	11.6
2-Butanone	0.245	0.191	0.197	0.195	0.166	0.228	0.204	13.9
Carbon Tetrachloride	0.768	0.715	0.701	0.697	0.656	0.730	0.711	5.2
cis-1,2-Dichloroethene	0.875	0.815	0.817	0.797	0.724	0.827	0.809	6.1
Bromochloromethane	0.436	0.353	0.495	0.501	0.432	0.427	0.441	12.3
Chloroform	1.768	1.465	1.378	1.302	1.186	2.069	1.528	21.6
1,1,1-Trichloroethane	1.298	1.215	1.198	1.183	1.086	1.219	1.200	5.7
Methylcyclohexane	0.883	0.848	0.832	0.812	0.766	0.883	0.837	5.3
Benzene	2.055	1.900	1.859	1.847	1.713	1.927	1.883	5.9
1,2-Dichloroethane	0.546	0.499	0.500	0.498	0.452	0.502	0.500	6
Trichloroethene	0.501	0.462	0.458	0.453	0.422	0.481	0.463	5.8
1,2-Dichloropropane	0.473	0.450	0.434	0.440	0.401	0.442	0.440	5.3
Bromodichloromethane	0.672	0.632	0.632	0.627	0.581	0.626	0.628	4.6
4-Methyl-2-Pentanone	0.364	0.290	0.299	0.301	0.261	0.297	0.302	11.1
Toluene	1.247	1.185	1.167	1.165	1.082	1.176	1.170	4.5

* 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.

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P5279 SAS No.: P5279 SDG No.: P5279

Instrument ID: MSVOA_Y Calibration Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:01 14:51

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

LAB FILE ID: RRF010 = VY020613.D RRF020 = VY020614.D RRF050 = VY020615.D
RRF100 = VY020616.D RRF150 = VY020617.D RRF005 = VY020619.D

COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.638	0.572	0.602	0.611	0.556	0.534	0.586	6.5
cis-1,3-Dichloropropene	0.742	0.694	0.706	0.714	0.646	0.661	0.694	5.1
1,1,2-Trichloroethane	0.344	0.306	0.303	0.309	0.276	0.308	0.308	7.1
2-Hexanone	0.225	0.183	0.199	0.202	0.175	0.180	0.194	9.5
Dibromochloromethane	0.447	0.402	0.420	0.421	0.381	0.396	0.411	5.7
1,2-Dibromoethane	0.319	0.281	0.288	0.290	0.261	0.277	0.286	6.7
Tetrachloroethene	0.505	0.464	0.452	0.446	0.422	0.533	0.470	8.7
Chlorobenzene	1.501	1.397	1.374	1.381	1.293	1.441	1.398	5
Ethyl Benzene	2.747	2.583	2.556	2.543	2.414	2.633	2.579	4.2
m/p-Xylenes	1.031	0.951	0.953	0.942	0.892	0.984	0.959	4.8
o-Xylene	0.956	0.892	0.898	0.887	0.842	0.894	0.895	4.1
Styrene	1.586	1.496	1.502	1.501	1.406	1.478	1.495	3.8
Bromoform	0.302	0.256	0.270	0.272	0.250	0.262	0.269	6.9
Isopropylbenzene	4.636	4.451	4.356	4.284	4.051	4.401	4.363	4.4
1,1,2,2-Tetrachloroethane	0.804	0.702	0.710	0.710	0.635	0.689	0.708	7.7
1,3-Dichlorobenzene	1.982	1.912	1.864	1.832	1.702	1.966	1.876	5.5
1,4-Dichlorobenzene	1.980	1.852	1.832	1.797	1.680	2.008	1.858	6.5
1,2-Dichlorobenzene	1.735	1.614	1.606	1.602	1.501	1.694	1.626	5
1,2-Dibromo-3-Chloropropane	0.133	0.107	0.113	0.114	0.107	0.116	0.115	8.4
1,2,4-Trichlorobenzene	0.975	0.927	1.014	1.030	0.990	0.964	0.983	3.8
1,2,3-Trichlorobenzene	0.798	0.791	0.864	0.874	0.846	0.813	0.831	4.2
1,2-Dichloroethane-d4	0.619	0.487	0.569	0.507	0.467	0.636	0.548	13
Dibromofluoromethane	0.385	0.328	0.360	0.325	0.313	0.404	0.352	10.4
Toluene-d8	1.314	1.127	1.271	1.143	1.100	1.445	1.233	10.9
4-Bromofluorobenzene	0.538	0.448	0.480	0.433	0.412	0.585	0.482	13.9

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

Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y121724S.M
Title : SW846 8260
Last Update : Wed Dec 18 05:27:13 2024
Response Via : Initial Calibration

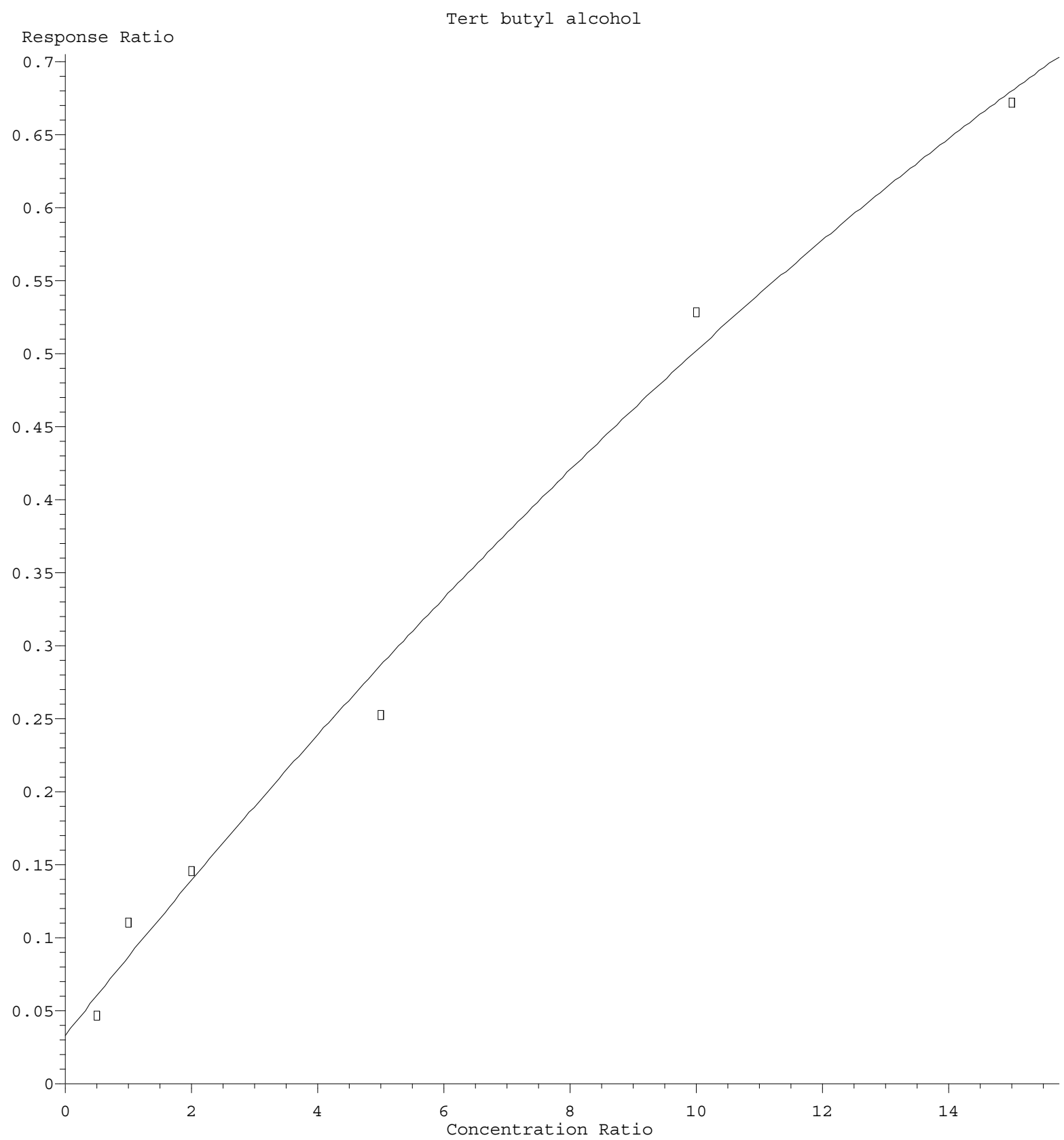
Calibration Files
5 =VY020619.D 10 =VY020613.D 20 =VY020614.D 50 =VY020615.D 100 =VY020616.D 150 =VY020617.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.665	0.678	0.633	0.617	0.601	0.552	0.625	7.31
3)	P	Chloromethane	0.555	0.490	0.506	0.428	0.426	0.372	0.463	14.32
4)	C	Vinyl Chloride	0.487	0.443	0.469	0.371	0.440	0.374	0.431	11.27#
5)	T	Bromomethane	0.327	0.291	0.279	0.229	0.282	0.254	0.277	12.08
6)	T	Chloroethane	0.302	0.273	0.287	0.212	0.272	0.251	0.266	11.75
7)	T	Trichlorofluor...	0.993	0.981	0.954	0.791	0.878	0.810	0.901	9.73
8)	T	Diethyl Ether	0.343	0.346	0.330	0.291	0.315	0.272	0.316	9.40
9)	T	1,1,2-Trichlor...	0.712	0.715	0.659	0.603	0.649	0.537	0.646	10.48
10)	T	Methyl Iodide	0.670	0.803	0.746	0.692	0.778	0.625	0.719	9.47
11)	T	Tert butyl alc...	0.093	0.110	0.073	0.051	0.053	0.045	0.071	37.31
12)	CM	1,1-Dichloroet...	0.667	0.701	0.637	0.589	0.638	0.528	0.627	9.72#
13)	T	Acrolein	0.033	0.039	0.033	0.017	0.019	0.015	0.026	38.81
14)	T	Allyl chloride	1.163	1.235	1.118	1.028	1.144	0.901	1.098	10.74
15)	T	Acrylonitrile	0.144	0.179	0.144	0.155	0.153	0.132	0.151	10.38
16)	T	Acetone	0.168	0.141	0.107	0.098	0.110		0.125	23.18
17)	T	Carbon Disulfide	2.142	2.315	2.083	1.939	2.092	1.669	2.040	10.70
18)	T	Methyl Acetate	0.378	0.474	0.351	0.350	0.391	0.292	0.373	16.13
19)	T	Methyl tert-bu...	1.542	1.799	1.584	1.663	1.652	1.466	1.618	7.10
20)	T	Methylene Chlo...	0.766	0.758	0.683	0.617	0.665	0.596	0.681	10.29
21)	T	trans-1,2-Dich...	0.707	0.771	0.703	0.710	0.692	0.636	0.703	6.17
22)	T	Diisopropyl ether	2.216	2.452	2.235	2.286	2.216	1.971	2.229	6.95
23)	T	Vinyl Acetate	1.175	1.418	1.245	1.314	1.295	1.129	1.263	8.20
24)	P	1,1-Dichloroet...	1.333	1.401	1.307	1.323	1.300	1.173	1.306	5.70
25)	T	2-Butanone	0.228	0.245	0.191	0.197	0.195	0.166	0.204	13.90
26)	T	2,2-Dichloropr...	1.451	1.366	1.219	1.184	1.146	1.041	1.235	12.13
27)	T	cis-1,2-Dichlo...	0.827	0.875	0.815	0.817	0.797	0.724	0.809	6.09
28)	T	Bromochloromet...	0.427	0.436	0.353	0.495	0.501	0.432	0.441	12.27
29)	T	Tetrahydrofuran	0.116	0.154	0.126	0.133	0.132	0.110	0.128	11.76
30)	C	Chloroform	2.069	1.768	1.465	1.378	1.302	1.186	1.528	21.59#
31)	T	Cyclohexane	1.443	1.388	1.247	1.198	1.160	1.056	1.249	11.59
32)	T	1,1,1-Trichlor...	1.219	1.298	1.215	1.198	1.183	1.086	1.200	5.72
33)	S	1,2-Dichloroet...	0.636	0.619	0.487	0.569	0.507	0.467	0.548	12.97
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.404	0.385	0.328	0.360	0.325	0.313	0.352	10.37
36)	T	1,1-Dichloropr...	0.688	0.691	0.637	0.637	0.622	0.581	0.643	6.46
37)	T	Ethyl Acetate	0.296	0.379	0.290	0.298	0.296	0.255	0.302	13.52
38)	T	Carbon Tetrach...	0.730	0.768	0.715	0.701	0.697	0.656	0.711	5.21
39)	T	Methylcyclohexane	0.883	0.883	0.848	0.832	0.812	0.766	0.837	5.33
40)	TM	Benzene	1.927	2.055	1.900	1.859	1.847	1.713	1.883	5.95
41)	T	Methacrylonitrile	0.147	0.186	0.146	0.154	0.183	0.143	0.160	12.38
42)	TM	1,2-Dichloroet...	0.502	0.546	0.499	0.500	0.498	0.452	0.500	5.98
43)	T	Isopropyl Acetate	0.519	0.671	0.554	0.582	0.589	0.518	0.572	9.93
44)	TM	Trichloroethene	0.481	0.501	0.462	0.458	0.453	0.422	0.463	5.82
45)	C	1,2-Dichloropr...	0.442	0.473	0.450	0.434	0.440	0.401	0.440	5.30#
46)	T	Dibromomethane	0.232	0.262	0.230	0.231	0.233	0.209	0.233	7.18
47)	T	Bromodichlorom...	0.626	0.672	0.632	0.632	0.627	0.581	0.628	4.57
48)	T	Methyl methacr...	0.254	0.305	0.259	0.276	0.286	0.252	0.272	7.69
49)	T	1,4-Dioxane	0.002	0.003	0.002	0.003	0.003	0.002	0.003	10.37
50)	S	Toluene-d8	1.445	1.314	1.127	1.271	1.143	1.100	1.233	10.88
51)	T	4-Methyl-2-Pen...	0.297	0.364	0.290	0.299	0.301	0.261	0.302	11.09
52)	CM	Toluene	1.176	1.247	1.185	1.167	1.165	1.082	1.170	4.52#
53)	T	t-1,3-Dichloro...	0.534	0.638	0.572	0.602	0.611	0.556	0.586	6.55
54)	T	cis-1,3-Dichlo...	0.661	0.742	0.694	0.706	0.714	0.646	0.694	5.08
55)	T	1,1,2-Trichlor...	0.308	0.344	0.306	0.303	0.309	0.276	0.308	7.06

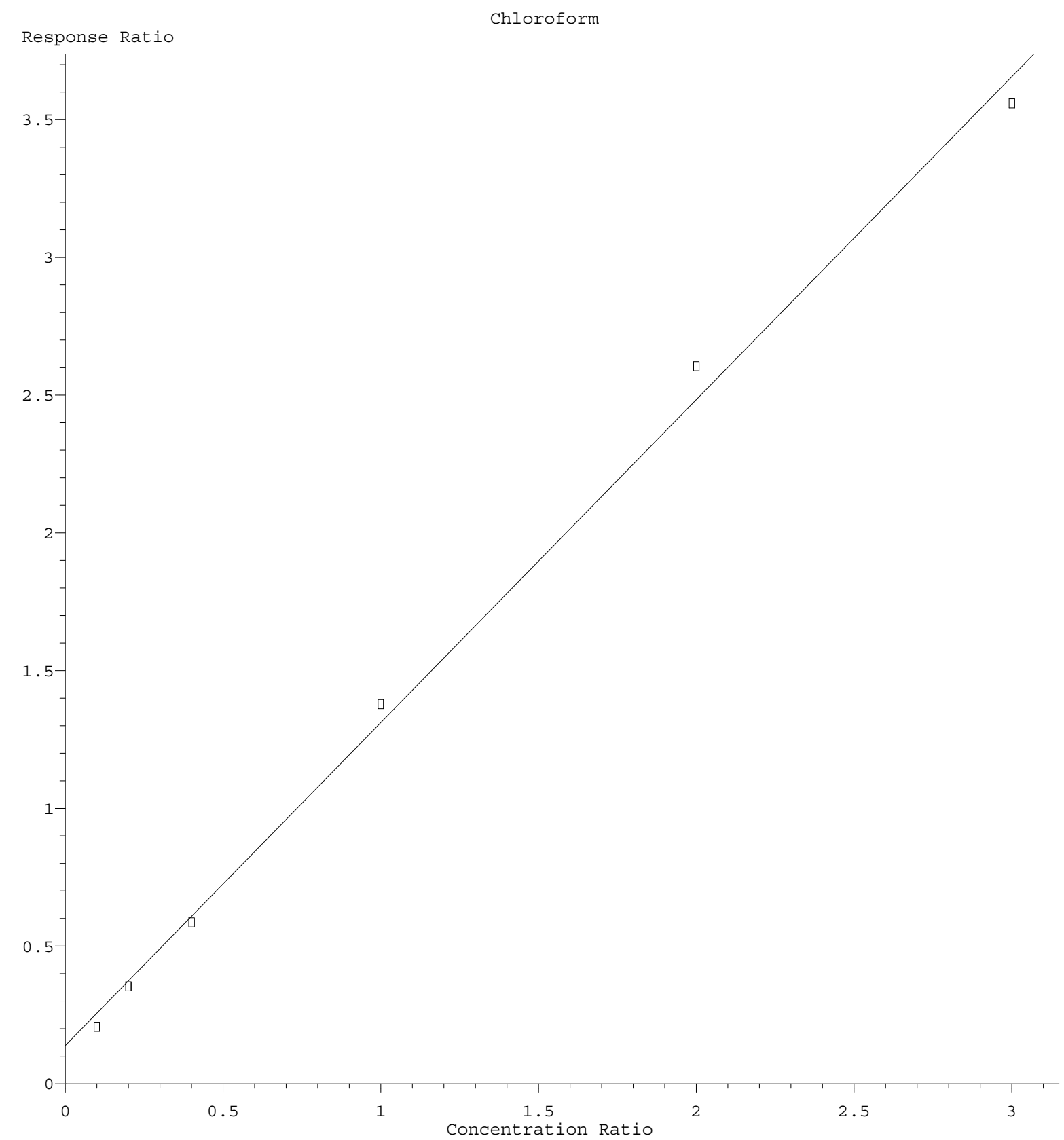
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y121724S.M

56)	T	Ethyl methacry...	0.388	0.485	0.422	0.460	0.487	0.435	0.446	8.63
57)	T	1,3-Dichloropr...	0.534	0.609	0.544	0.555	0.554	0.495	0.548	6.71
58)	T	2-Chloroethyl ...	0.185	0.197	0.176	0.172	0.198	0.198	0.188	6.28
59)	T	2-Hexanone	0.180	0.225	0.183	0.199	0.202	0.175	0.194	9.55
60)	T	Dibromochlorom...	0.396	0.447	0.402	0.420	0.421	0.381	0.411	5.67
61)	T	1,2-Dibromoethane	0.277	0.319	0.281	0.288	0.290	0.261	0.286	6.70
62)	S	4-Bromofluorob...	0.585	0.538	0.448	0.480	0.433	0.412	0.482	13.88
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.533	0.505	0.464	0.452	0.446	0.422	0.470	8.71
65)	PM	Chlorobenzene	1.441	1.501	1.397	1.374	1.381	1.293	1.398	4.99
66)	T	1,1,1,2-Tetrac...	0.479	0.529	0.468	0.474	0.476	0.443	0.478	5.88
67)	C	Ethyl Benzene	2.633	2.747	2.583	2.556	2.543	2.414	2.579	4.24#
68)	T	m/p-Xylenes	0.984	1.031	0.951	0.953	0.942	0.892	0.959	4.82
69)	T	o-Xylene	0.894	0.956	0.892	0.898	0.887	0.842	0.895	4.07
70)	T	Styrene	1.478	1.586	1.496	1.502	1.501	1.406	1.495	3.85
71)	P	Bromoform	0.262	0.302	0.256	0.270	0.272	0.250	0.269	6.86
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	4.401	4.636	4.451	4.356	4.284	4.051	4.363	4.43
74)	T	N-amyl acetate	0.867	1.133	0.999	1.067	1.088	0.972	1.021	9.36
75)	P	1,1,2,2-Tetrac...	0.689	0.804	0.702	0.710	0.710	0.635	0.708	7.72
76)	T	1,2,3-Trichlor...	0.532	0.581	0.520	0.522	0.511	0.450	0.519	8.11
77)	T	Bromobenzene	0.974	1.007	0.953	0.947	0.944	0.877	0.950	4.50
78)	T	n-propylbenzene	5.307	5.566	5.397	5.283	5.151	4.837	5.257	4.71
79)	T	2-Chlorotoluene	3.020	3.114	3.012	2.940	2.932	2.727	2.958	4.42
80)	T	1,3,5-Trimethy...	3.616	3.701	3.622	3.560	3.473	3.270	3.540	4.30
81)	T	trans-1,4-Dich...	0.212	0.270	0.247	0.256	0.262	0.237	0.247	8.45
82)	T	4-Chlorotoluene	3.264	3.185	3.123	3.059	2.993	2.786	3.068	5.46
83)	T	tert-Butylbenzene	3.188	3.378	3.288	3.215	3.178	2.992	3.206	4.02
84)	T	1,2,4-Trimethy...	3.454	3.660	3.534	3.536	3.429	3.224	3.473	4.21
85)	T	sec-Butylbenzene	4.806	4.894	4.777	4.690	4.543	4.263	4.662	4.91
86)	T	p-Isopropyltol...	3.838	3.975	3.951	3.916	3.809	3.574	3.844	3.82
87)	T	1,3-Dichlorobe...	1.966	1.982	1.912	1.864	1.832	1.702	1.876	5.47
88)	T	1,4-Dichlorobe...	2.008	1.980	1.852	1.832	1.797	1.680	1.858	6.54
89)	T	n-Butylbenzene	3.625	3.755	3.736	3.749	3.599	3.393	3.643	3.82
90)	T	Hexachloroethane	0.774	0.794	0.764	0.764	0.753	0.720	0.762	3.23
91)	T	1,2-Dichlorobe...	1.694	1.735	1.614	1.606	1.602	1.501	1.626	5.01
92)	T	1,2-Dibromo-3-...	0.116	0.133	0.107	0.113	0.114	0.107	0.115	8.44
93)	T	1,2,4-Trichlor...	0.964	0.975	0.927	1.014	1.030	0.990	0.983	3.76
94)	T	Hexachlorobuta...	0.667	0.650	0.636	0.657	0.634	0.613	0.643	2.97
95)	T	Naphthalene	1.437	1.669	1.528	1.768	1.906	1.808	1.686	10.52
96)	T	1,2,3-Trichlor...	0.813	0.798	0.791	0.864	0.874	0.846	0.831	4.25

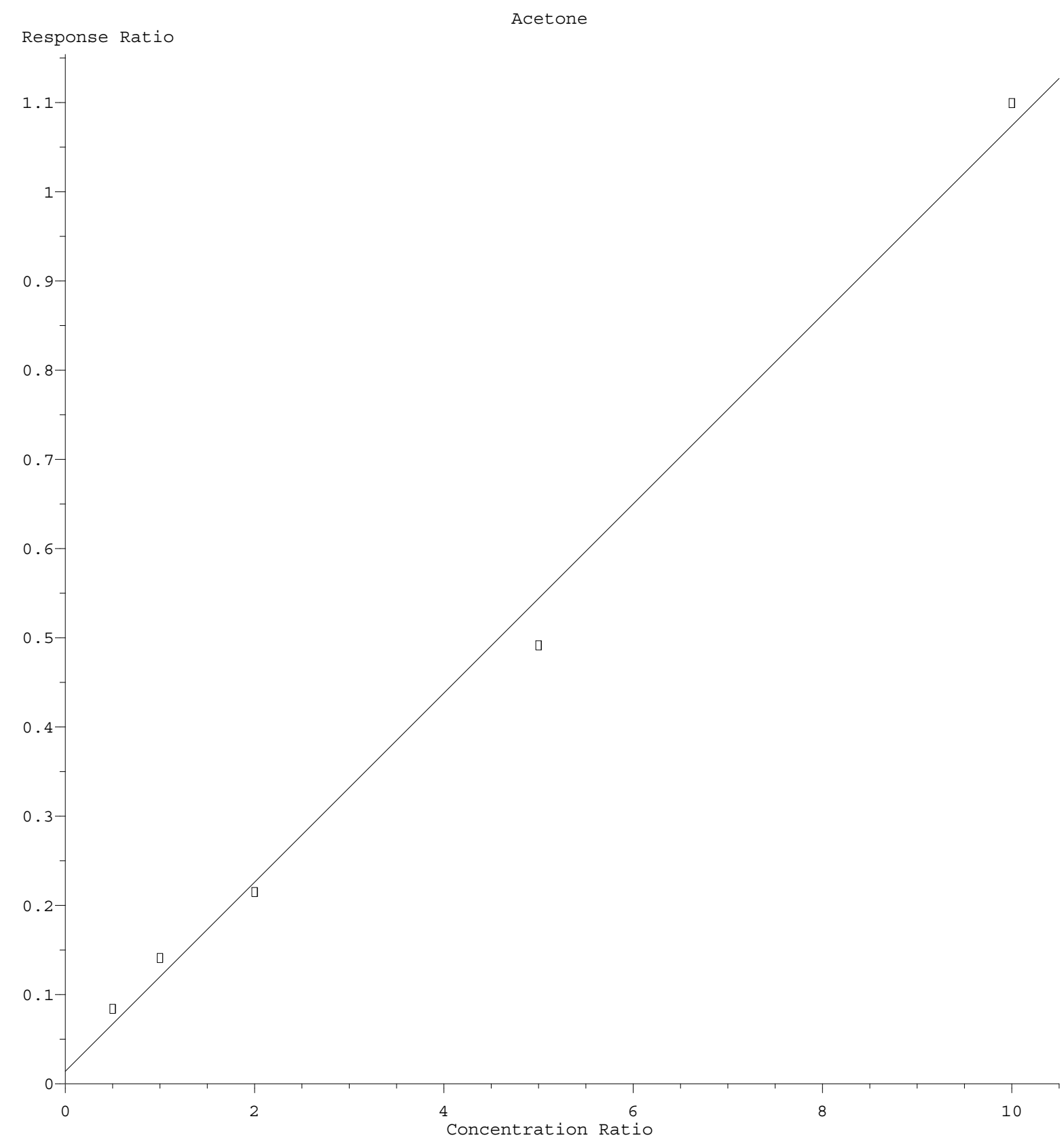
(#) = Out of Range



R = -7.535e-004 A*A + 5.441e-002 A + 3.343e-002
Coef of Det (r^2) = 0.991509 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y121724S.M
Calibration Table Last Updated: Wed Dec 18 05:27:13 2024



Response = 1.172e+000 * Amt + 1.389e-001
Coef of Det (r^2) = 0.996566 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y121724S.M
Calibration Table Last Updated: Wed Dec 18 05:27:13 2024



Response = 1.060e-001 * Amt + 1.400e-002
Coef of Det (r^2) = 0.993909 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y121724S.M
Calibration Table Last Updated: Wed Dec 18 05:27:13 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
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 :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	170610	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	263150	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	228550	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	127910	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	21133	11.310	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	22.620%#		
35) Dibromofluoromethane	7.634	113	20262	10.925	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	21.860%#		
50) Toluene-d8	10.103	98	69155	10.653	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	21.300%#		
62) 4-Bromofluorobenzene	12.401	95	28323	11.154	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	22.300%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	23136	10.857	ug/l	100
3) Chloromethane	2.068	50	16735	10.599	ug/l	98
4) Vinyl Chloride	2.202	62	15133	10.297	ug/l	98
5) Bromomethane	2.598	94	9934	10.516	ug/l	95
6) Chloroethane	2.732	64	9308	10.249	ug/l	93
7) Trichlorofluoromethane	3.062	101	33462	10.882	ug/l	97
8) Diethyl Ether	3.458	74	11799	10.941	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.824	101	24382	11.062	ug/l	99
10) Methyl Iodide	4.007	142	27400	11.166	ug/l	96
11) Tert butyl alcohol	4.842	59	18830	72.145	ug/l #	90
12) 1,1-Dichloroethene	3.793	96	23914	11.182	ug/l	98
13) Acrolein	3.653	56	6650	75.266	ug/l	100
14) Allyl chloride	4.385	41	42157	11.250	ug/l	98
15) Acrylonitrile	5.061	53	30489	59.095	ug/l	99
16) Acetone	3.873	43	24059	59.918	ug/l	92
17) Carbon Disulfide	4.110	76	79000	11.348	ug/l	98
18) Methyl Acetate	4.391	43	16164	12.714	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	61370	11.118	ug/l	99
20) Methylene Chloride	4.622	84	25848	11.126	ug/l	94
21) trans-1,2-Dichloroethene	5.116	96	26315	10.969	ug/l	97
22) Diisopropyl ether	6.018	45	83653	10.997	ug/l	94
23) Vinyl Acetate	5.964	43	241892	56.147	ug/l	100
24) 1,1-Dichloroethane	5.915	63	47807	10.728	ug/l	99
25) 2-Butanone	6.896	43	41782	60.169	ug/l	100
26) 2,2-Dichloropropane	6.884	77	46620	11.067	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	29841	10.812	ug/l	97
28) Bromochloromethane	7.250	49	14872	9.894	ug/l	98
29) Tetrahydrofuran	7.262	42	26233	59.842	ug/l	99
30) Chloroform	7.421	83	60327	9.156	ug/l	98
31) Cyclohexane	7.701	56	47368	11.117	ug/l #	93
32) 1,1,1-Trichloroethane	7.616	97	44299	10.820	ug/l	100
36) 1,1-Dichloropropene	7.835	75	36347	10.748	ug/l	99
37) Ethyl Acetate	6.982	43	19950	12.541	ug/l	99
38) Carbon Tetrachloride	7.823	117	40394	10.796	ug/l	95
39) Methylcyclohexane	9.103	83	46462	10.541	ug/l	97
40) Benzene	8.079	78	108150	10.910	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
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: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	9800	11.653	ug/l		95
42) 1,2-Dichloroethane	8.158	62	28739	10.931	ug/l		98
43) Isopropyl Acetate	8.195	43	35299	11.721	ug/l	#	88
44) Trichloroethene	8.866	130	26388	10.834	ug/l		96
45) 1,2-Dichloropropane	9.140	63	24889	10.743	ug/l		100
46) Dibromomethane	9.231	93	13764	11.242	ug/l		99
47) Bromodichloromethane	9.420	83	35352	10.689	ug/l		98
48) Methyl methacrylate	9.219	41	16060	11.218	ug/l		99
49) 1,4-Dioxane	9.225	88	3340	237.872	ug/l	#	95
51) 4-Methyl-2-Pentanone	9.999	43	95663	60.180	ug/l		100
52) Toluene	10.170	92	65651	10.657	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	33566	10.892	ug/l		97
54) cis-1,3-Dichloropropene	9.853	75	39068	10.698	ug/l		93
55) 1,1,2-Trichloroethane	10.573	97	18100	11.181	ug/l		96
56) Ethyl methacrylate	10.438	69	25543	10.877	ug/l		99
57) 1,3-Dichloropropane	10.713	76	32029	11.099	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	51913	52.537	ug/l		100
59) 2-Hexanone	10.755	43	59126	57.933	ug/l		100
60) Dibromochloromethane	10.908	129	23549	10.878	ug/l		99
61) 1,2-Dibromoethane	11.012	107	16807	11.162	ug/l		99
64) Tetrachloroethene	10.646	164	23098	10.744	ug/l		96
65) Chlorobenzene	11.438	112	68621	10.738	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.511	131	24180	11.065	ug/l		98
67) Ethyl Benzene	11.518	91	125547	10.649	ug/l		99
68) m/p-Xylenes	11.627	106	94273	21.506	ug/l		98
69) o-Xylene	11.950	106	43697	10.684	ug/l		100
70) Styrene	11.969	104	72514	10.612	ug/l		99
71) Bromoform	12.127	173	13822	11.250	ug/l	#	100
73) Isopropylbenzene	12.255	105	118590	10.624	ug/l		99
74) N-amyl acetate	12.066	43	28977	11.093	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	20569	11.352	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	14870m	11.287	ug/l		
77) Bromobenzene	12.530	156	25752	10.591	ug/l		97
78) n-propylbenzene	12.597	91	142396	10.588	ug/l		100
79) 2-Chlorotoluene	12.676	91	79651	10.527	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	94672	10.453	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	6908	10.913	ug/l		93
82) 4-Chlorotoluene	12.773	91	81482	10.380	ug/l		98
83) tert-Butylbenzene	12.993	119	86405	10.534	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	93630	10.539	ug/l		98
85) sec-Butylbenzene	13.176	105	125189	10.497	ug/l		99
86) p-Isopropyltoluene	13.292	119	101690	10.342	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	50691	10.561	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	50665	10.658	ug/l		97
89) n-Butylbenzene	13.615	91	96052	10.307	ug/l		99
90) Hexachloroethane	13.877	117	20324	10.430	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	44391	10.674	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	3406	11.579	ug/l		91
93) 1,2,4-Trichlorobenzene	14.919	180	24954	9.920	ug/l		98
94) Hexachlorobutadiene	15.023	225	16620	10.107	ug/l		97
95) Naphthalene	15.145	128	42698	9.901	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	20408	9.602	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
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 :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 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

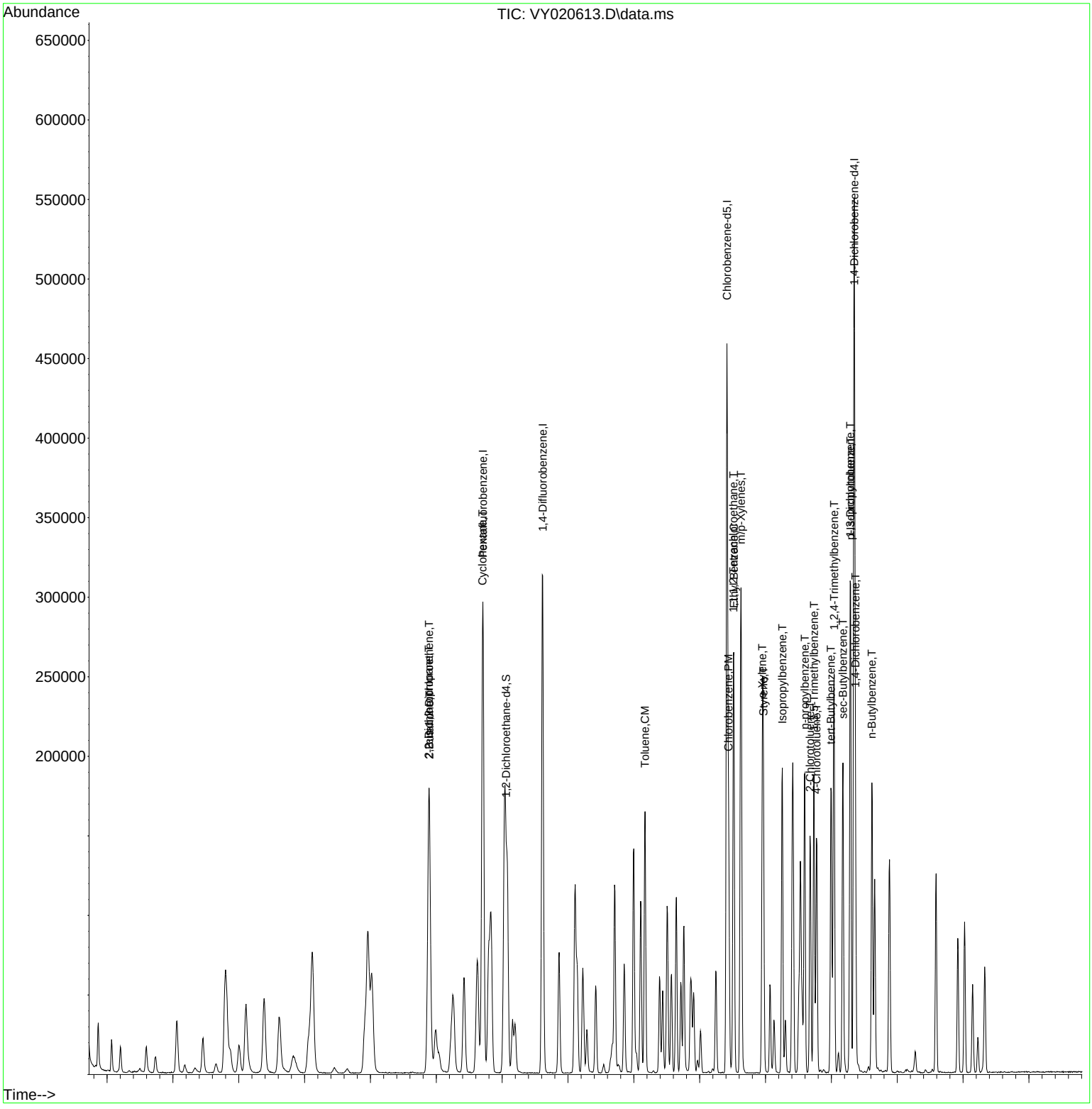
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
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 :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	177160	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	272612	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	241222	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	131827	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	34492	17.777	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	35.560%#		
35) Dibromofluoromethane	7.634	113	35742	18.603	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	37.200%#		
50) Toluene-d8	10.103	98	122846	18.267	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	36.540%#		
62) 4-Bromofluorobenzene	12.401	95	48801	18.552	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	37.100%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	44875	20.280	ug/l	99
3) Chloromethane	2.068	50	35845	21.863	ug/l	98
4) Vinyl Chloride	2.202	62	33253	21.791	ug/l	100
5) Bromomethane	2.586	94	19758	20.142	ug/l	100
6) Chloroethane	2.732	64	20312	21.539	ug/l	98
7) Trichlorofluoromethane	3.055	101	67594	21.169	ug/l	98
8) Diethyl Ether	3.452	74	23380	20.878	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.817	101	46696	20.403	ug/l	100
10) Methyl Iodide	4.000	142	52895	20.758	ug/l	97
11) Tert butyl alcohol	4.866	59	25807	106.274	ug/l #	93
12) 1,1-Dichloroethene	3.787	96	45124	20.319	ug/l	99
13) Acrolein	3.653	56	11611	126.557	ug/l	94
14) Allyl chloride	4.384	41	79257	20.368	ug/l	99
15) Acrylonitrile	5.055	53	51118	95.416	ug/l	99
16) Acetone	3.866	43	38075	94.781	ug/l	99
17) Carbon Disulfide	4.104	76	147576	20.416	ug/l	100
18) Methyl Acetate	4.384	43	24886	18.851	ug/l	97
19) Methyl tert-butyl Ether	5.110	73	112241	19.582	ug/l	96
20) Methylene Chloride	4.616	84	48431	20.076	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	49814	19.997	ug/l	97
22) Diisopropyl ether	6.018	45	158410	20.055	ug/l	97
23) Vinyl Acetate	5.963	43	441039	98.587	ug/l	100
24) 1,1-Dichloroethane	5.915	63	92599	20.011	ug/l	99
25) 2-Butanone	6.896	43	67498	93.608	ug/l	98
26) 2,2-Dichloropropane	6.884	77	86393	19.750	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	57749	20.149	ug/l	99
28) Bromochloromethane	7.244	49	24987	16.009	ug/l	98
29) Tetrahydrofuran	7.256	42	44636	98.059	ug/l	98
30) Chloroform	7.421	83	103806	19.065	ug/l	99
31) Cyclohexane	7.701	56	88339	19.966	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	86081	20.249	ug/l	99
36) 1,1-Dichloropropene	7.835	75	69466	19.828	ug/l	99
37) Ethyl Acetate	6.982	43	31585	19.166	ug/l	99
38) Carbon Tetrachloride	7.817	117	77945	20.109	ug/l	96
39) Methylcyclohexane	9.103	83	92458	20.249	ug/l	97
40) Benzene	8.079	78	207185	20.176	ug/l	97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
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: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	15884	18.232	ug/l		96
42) 1,2-Dichloroethane	8.158	62	54425	19.983	ug/l		99
43) Isopropyl Acetate	8.195	43	60446	19.375	ug/l	#	88
44) Trichloroethene	8.865	130	50346	19.952	ug/l		100
45) 1,2-Dichloropropane	9.140	63	49119	20.466	ug/l		99
46) Dibromomethane	9.231	93	25054	19.753	ug/l		99
47) Bromodichloromethane	9.420	83	68951	20.125	ug/l		97
48) Methyl methacrylate	9.219	41	28256	19.051	ug/l		100
49) 1,4-Dioxane	9.225	88	5399	371.167	ug/l		96
51) 4-Methyl-2-Pentanone	9.993	43	157955	95.918	ug/l		99
52) Toluene	10.170	92	129196	20.245	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	62391	19.543	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	75647	19.996	ug/l		97
55) 1,1,2-Trichloroethane	10.572	97	33330	19.875	ug/l		97
56) Ethyl methacrylate	10.438	69	46055	18.930	ug/l		99
57) 1,3-Dichloropropane	10.713	76	59274	19.828	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	96023	93.804	ug/l		100
59) 2-Hexanone	10.755	43	99623	94.224	ug/l		100
60) Dibromochloromethane	10.908	129	43825	19.541	ug/l		98
61) 1,2-Dibromoethane	11.011	107	30621	19.630	ug/l		100
64) Tetrachloroethene	10.646	164	44735	19.716	ug/l		98
65) Chlorobenzene	11.438	112	134807	19.987	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.517	131	45146	19.574	ug/l		98
67) Ethyl Benzene	11.517	91	249208	20.027	ug/l		100
68) m/p-Xylenes	11.627	106	183488	39.659	ug/l		98
69) o-Xylene	11.950	106	86043	19.932	ug/l		98
70) Styrene	11.968	104	144333	20.012	ug/l		99
71) Bromoform	12.133	173	24718	19.062	ug/l	#	99
73) Isopropylbenzene	12.255	105	234727	20.404	ug/l		100
74) N-amyl acetate	12.066	43	52699	19.574	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	36998	19.813	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	27440m	20.210	ug/l		
77) Bromobenzene	12.529	156	50276	20.063	ug/l		99
78) n-propylbenzene	12.596	91	284604	20.534	ug/l		100
79) 2-Chlorotoluene	12.676	91	158834	20.369	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	190968	20.458	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	13039	19.986	ug/l		98
82) 4-Chlorotoluene	12.773	91	164692	20.358	ug/l		99
83) tert-Butylbenzene	12.999	119	173358	20.507	ug/l		100
84) 1,2,4-Trimethylbenzene	13.041	105	186344	20.352	ug/l		99
85) sec-Butylbenzene	13.176	105	251880	20.492	ug/l		100
86) p-Isopropyltoluene	13.291	119	208342	20.558	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	100815	20.380	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	97668	19.935	ug/l		99
89) n-Butylbenzene	13.615	91	196997	20.511	ug/l		99
90) Hexachloroethane	13.877	117	40281	20.057	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	85128	19.862	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5627	18.561	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	48869	18.850	ug/l		99
94) Hexachlorobutadiene	15.023	225	33524	19.781	ug/l		99
95) Naphthalene	15.145	128	80562	18.126	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	41686	19.031	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
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 :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 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

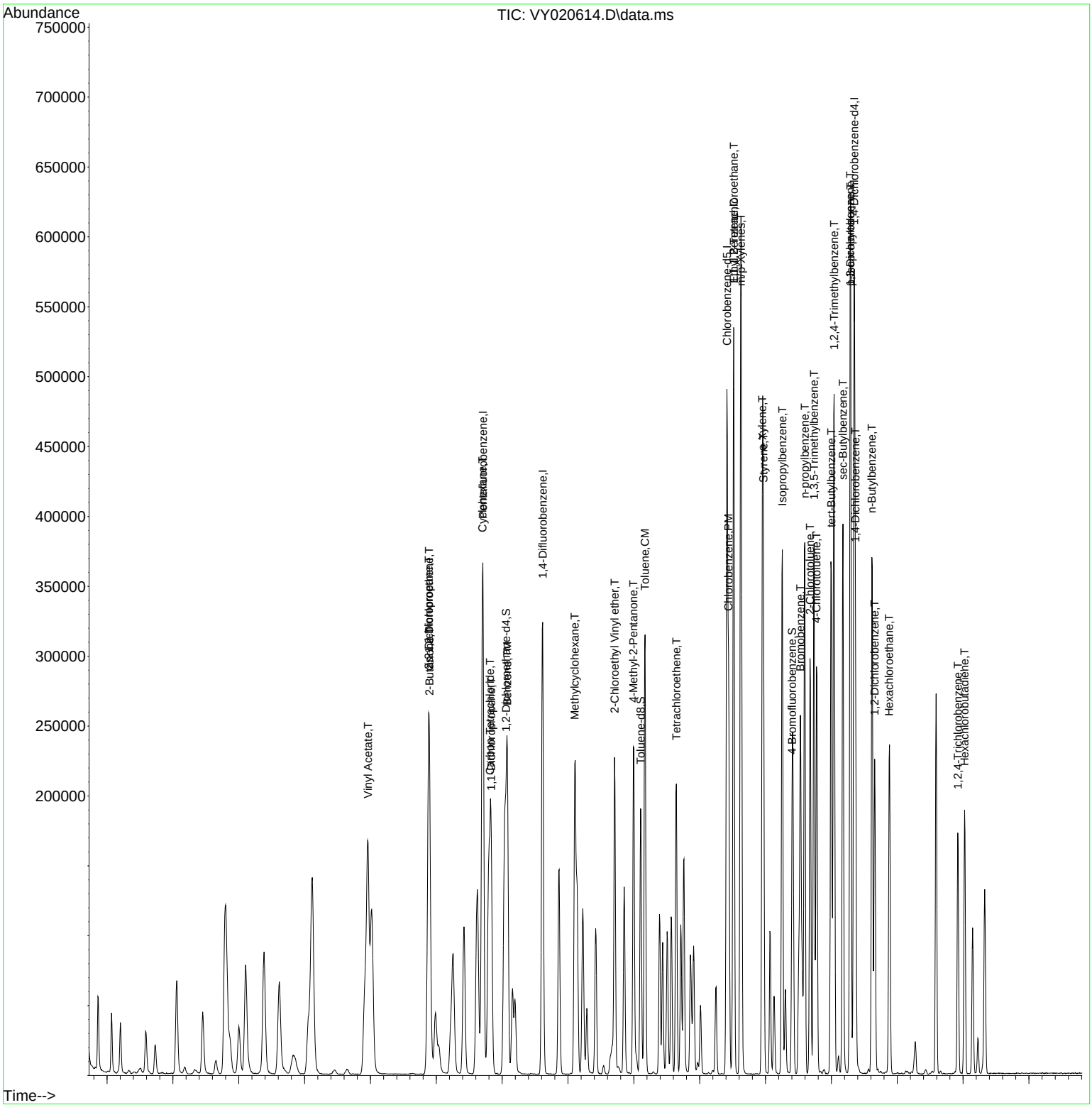
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	169292	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	263162	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	234325	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	130092	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	96289	51.933	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.860%			
35) Dibromofluoromethane	7.634	113	94848	51.139	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.280%			
50) Toluene-d8	10.103	98	334601	51.543	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.080%			
62) 4-Bromofluorobenzene	12.401	95	126226	49.707	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 99.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	104493	49.416	ug/l	100
3) Chloromethane	2.068	50	72429	46.229	ug/l	100
4) Vinyl Chloride	2.202	62	62750	43.031	ug/l	100
5) Bromomethane	2.598	94	38716	41.303	ug/l	100
6) Chloroethane	2.738	64	35946	39.890	ug/l	100
7) Trichlorofluoromethane	3.061	101	133990	43.913	ug/l	100
8) Diethyl Ether	3.458	74	49218	45.993	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.817	101	102158	46.710	ug/l	100
10) Methyl Iodide	4.006	142	117209	48.135	ug/l	100
11) Tert butyl alcohol	4.860	59	42756	214.068	ug/l	100
12) 1,1-Dichloroethene	3.787	96	99773	47.016	ug/l	100
13) Acrolein	3.653	56	14576	166.258	ug/l	100
14) Allyl chloride	4.384	41	173951	46.780	ug/l	100
15) Acrylonitrile	5.055	53	130861	255.615	ug/l	100
16) Acetone	3.866	43	83206	225.255	ug/l	100
17) Carbon Disulfide	4.104	76	328309	47.529	ug/l	100
18) Methyl Acetate	4.384	43	59224	46.948	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	281609	51.414	ug/l	100
20) Methylene Chloride	4.616	84	104472	45.319	ug/l	100
21) trans-1,2-Dichloroethene	5.116	96	120184	50.488	ug/l	100
22) Diisopropyl ether	6.024	45	387073	51.282	ug/l	100
23) Vinyl Acetate	5.963	43	1112368	260.208	ug/l	100
24) 1,1-Dichloroethane	5.915	63	223898	50.635	ug/l	100
25) 2-Butanone	6.896	43	167158	242.593	ug/l	100
26) 2,2-Dichloropropane	6.884	77	200438	47.951	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	138280	50.490	ug/l	100
28) Bromochloromethane	7.244	49	83821	56.199	ug/l	100
29) Tetrahydrofuran	7.262	42	112230	258.011	ug/l	100
30) Chloroform	7.420	83	233357	52.860	ug/l	100
31) Cyclohexane	7.701	56	202782	47.962	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	202760	49.911	ug/l	100
36) 1,1-Dichloropropene	7.835	75	167520	49.533	ug/l	100
37) Ethyl Acetate	6.981	43	78387	49.275	ug/l	100
38) Carbon Tetrachloride	7.817	117	184345	49.267	ug/l	100
39) Methylcyclohexane	9.109	83	219055	49.696	ug/l	100
40) Benzene	8.079	78	489140	49.343	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	40529	48.191	ug/l		100
42) 1,2-Dichloroethane	8.158	62	131640	50.069	ug/l		100
43) Isopropyl Acetate	8.195	43	153226	50.877	ug/l		100
44) Trichloroethene	8.865	130	120552	49.491	ug/l		100
45) 1,2-Dichloropropane	9.140	63	114250	49.313	ug/l		100
46) Dibromomethane	9.231	93	60782	49.642	ug/l		100
47) Bromodichloromethane	9.420	83	166333	50.291	ug/l		100
48) Methyl methacrylate	9.219	41	72602	50.709	ug/l		100
49) 1,4-Dioxane	9.231	88	14069	1001.939	ug/l		100
51) 4-Methyl-2-Pentanone	9.999	43	393979	247.835	ug/l		100
52) Toluene	10.170	92	307082	49.846	ug/l		100
53) t-1,3-Dichloropropene	10.389	75	158536	51.442	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	185696	50.849	ug/l		100
55) 1,1,2-Trichloroethane	10.572	97	79837	49.318	ug/l		100
56) Ethyl methacrylate	10.438	69	121030	51.535	ug/l		100
57) 1,3-Dichloropropane	10.713	76	146053	50.611	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	226061	228.767	ug/l		100
59) 2-Hexanone	10.761	43	261334	256.048	ug/l		100
60) Dibromochloromethane	10.908	129	110597	51.085	ug/l		100
61) 1,2-Dibromoethane	11.011	107	75811	50.346	ug/l		100
64) Tetrachloroethene	10.645	164	105939	48.065	ug/l		100
65) Chlorobenzene	11.438	112	322053	49.154	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.517	131	111060	49.571	ug/l		100
67) Ethyl Benzene	11.517	91	598896	49.546	ug/l		100
68) m/p-Xylenes	11.627	106	446771	99.408	ug/l		100
69) o-Xylene	11.956	106	210499	50.198	ug/l		100
70) Styrene	11.968	104	351858	50.222	ug/l		100
71) Bromoform	12.133	173	63198	50.171	ug/l	#	100
73) Isopropylbenzene	12.255	105	566646	49.914	ug/l		100
74) N-amyl acetate	12.072	43	138830	52.254	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.505	83	92349	50.115	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	67873m	50.656	ug/l		
77) Bromobenzene	12.529	156	123256	49.842	ug/l		100
78) n-propylbenzene	12.596	91	687319	50.251	ug/l		100
79) 2-Chlorotoluene	12.676	91	382511	49.707	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	463155	50.279	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	33360	51.816	ug/l		100
82) 4-Chlorotoluene	12.779	91	397958	49.848	ug/l		100
83) tert-Butylbenzene	12.999	119	418182	50.127	ug/l		100
84) 1,2,4-Trimethylbenzene	13.041	105	459974	50.907	ug/l		100
85) sec-Butylbenzene	13.176	105	610142	50.301	ug/l		100
86) p-Isopropyltoluene	13.291	119	509445	50.941	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	242502	49.677	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	238266	49.281	ug/l		100
89) n-Butylbenzene	13.614	91	487742	51.461	ug/l		100
90) Hexachloroethane	13.883	117	99360	50.134	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	208977	49.409	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	14740	49.268	ug/l		100
93) 1,2,4-Trichlorobenzene	14.925	180	131852	51.538	ug/l		100
94) Hexachlorobutadiene	15.029	225	85490	51.117	ug/l		100
95) Naphthalene	15.145	128	229979	52.434	ug/l		100
96) 1,2,3-Trichlorobenzene	15.334	180	112349	51.976	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 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

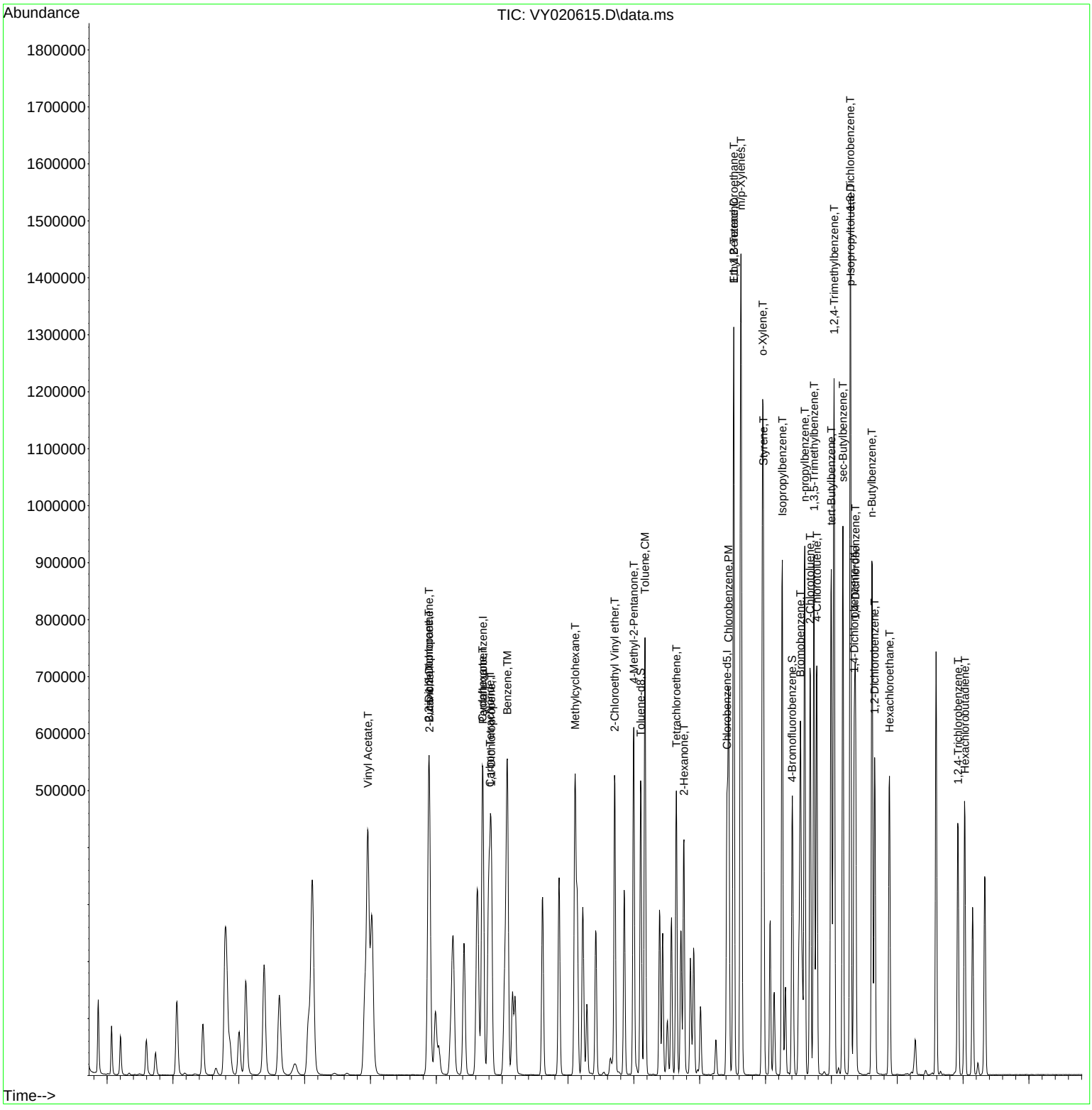
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
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 :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	175469	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	270859	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.413	117	241570	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	134321	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	177978	92.612	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 185.220%#			
35) Dibromofluoromethane	7.634	113	175849	92.118	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 184.240%#			
50) Toluene-d8	10.103	98	619412	92.704	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 185.400%#			
62) 4-Bromofluorobenzene	12.401	95	234353	89.665	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 179.320%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.866	85	210949	96.249	ug/l	99
3) Chloromethane	2.068	50	149471	92.044	ug/l	98
4) Vinyl Chloride	2.202	62	154262	102.062	ug/l	99
5) Bromomethane	2.586	94	98824	101.715	ug/l	97
6) Chloroethane	2.732	64	95621	102.376	ug/l	99
7) Trichlorofluoromethane	3.055	101	308242	97.464	ug/l	98
8) Diethyl Ether	3.458	74	110471	99.599	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.811	101	227753	100.469	ug/l	99
10) Methyl Iodide	4.000	142	272999	108.168	ug/l	98
11) Tert butyl alcohol	4.860	59	92710	533.746	ug/l	100
12) 1,1-Dichloroethene	3.787	96	224015	101.847	ug/l	100
13) Acrolein	3.653	56	32525	357.929	ug/l	98
14) Allyl chloride	4.384	41	401452	104.161	ug/l	99
15) Acrylonitrile	5.055	53	268782	506.539	ug/l	99
16) Acetone	3.872	43	192907	512.024	ug/l	99
17) Carbon Disulfide	4.104	76	734236	102.553	ug/l	99
18) Methyl Acetate	4.384	43	137166	104.906	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	579813	102.132	ug/l	98
20) Methylene Chloride	4.610	84	233323	97.650	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	242695	98.365	ug/l	97
22) Diisopropyl ether	6.018	45	777568	99.391	ug/l	96
23) Vinyl Acetate	5.957	43	2271891	512.739	ug/l	100
24) 1,1-Dichloroethane	5.914	63	456073	99.510	ug/l	99
25) 2-Butanone	6.890	43	341489	478.150	ug/l	99
26) 2,2-Dichloropropane	6.884	77	402163	92.822	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	279676	98.523	ug/l	99
28) Bromochloromethane	7.243	49	175710	113.661	ug/l	98
29) Tetrahydrofuran	7.262	42	230877	512.090	ug/l	100
30) Chloroform	7.420	83	457070	105.160	ug/l	97
31) Cyclohexane	7.701	56	407104	92.899	ug/l	98
32) 1,1,1-Trichloroethane	7.615	97	415073	98.578	ug/l	100
36) 1,1-Dichloropropene	7.835	75	337138	96.854	ug/l	99
37) Ethyl Acetate	6.981	43	160241	97.867	ug/l	100
38) Carbon Tetrachloride	7.817	117	377406	97.998	ug/l	100
39) Methylcyclohexane	9.109	83	440006	96.986	ug/l	99
40) Benzene	8.079	78	1000543	98.064	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
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: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	99381	114.810	ug/l	#	86
42) 1,2-Dichloroethane	8.158	62	270045	99.793	ug/l		100
43) Isopropyl Acetate	8.195	43	318902	102.879	ug/l		99
44) Trichloroethene	8.865	130	245474	97.912	ug/l		99
45) 1,2-Dichloropropane	9.139	63	238605	100.062	ug/l		99
46) Dibromomethane	9.231	93	126063	100.032	ug/l		99
47) Bromodichloromethane	9.420	83	339720	99.796	ug/l		97
48) Methyl methacrylate	9.219	41	154845	105.079	ug/l		99
49) 1,4-Dioxane	9.225	88	29870	2066.774	ug/l		97
51) 4-Methyl-2-Pentanone	9.993	43	814840	498.015	ug/l		100
52) Toluene	10.170	92	631368	99.573	ug/l		100
53) t-1,3-Dichloropropene	10.389	75	330795	104.287	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	386715	102.884	ug/l		99
55) 1,1,2-Trichloroethane	10.572	97	167205	100.352	ug/l		95
56) Ethyl methacrylate	10.438	69	263694	109.090	ug/l		98
57) 1,3-Dichloropropane	10.712	76	299884	100.965	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.706	63	536306	527.303	ug/l		100
59) 2-Hexanone	10.755	43	548285	521.929	ug/l		99
60) Dibromochloromethane	10.907	129	228154	102.389	ug/l		99
61) 1,2-Dibromoethane	11.011	107	156883	101.225	ug/l		100
64) Tetrachloroethene	10.645	164	215415	94.803	ug/l		97
65) Chlorobenzene	11.438	112	667347	98.800	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	229790	99.489	ug/l		99
67) Ethyl Benzene	11.517	91	1228775	98.607	ug/l		99
68) m/p-Xylenes	11.627	106	910536	196.521	ug/l		99
69) o-Xylene	11.956	106	428727	99.174	ug/l		97
70) Styrene	11.968	104	725167	100.401	ug/l		100
71) Bromoform	12.133	173	131589	101.332	ug/l	#	98
73) Isopropylbenzene	12.255	105	1150948	98.191	ug/l		100
74) N-amyl acetate	12.066	43	292377	106.582	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	190664	100.209	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	137213m	99.183	ug/l		
77) Bromobenzene	12.529	156	253587	99.317	ug/l		100
78) n-propylbenzene	12.596	91	1383699	97.980	ug/l		99
79) 2-Chlorotoluene	12.675	91	787764	99.147	ug/l		99
80) 1,3,5-Trimethylbenzene	12.736	105	933106	98.108	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	70365	105.852	ug/l		100
82) 4-Chlorotoluene	12.779	91	804177	97.558	ug/l		100
83) tert-Butylbenzene	12.999	119	853675	99.108	ug/l		100
84) 1,2,4-Trimethylbenzene	13.041	105	921051	98.727	ug/l		99
85) sec-Butylbenzene	13.175	105	1220465	97.450	ug/l		100
86) p-Isopropyltoluene	13.291	119	1023181	99.089	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	492097	97.633	ug/l		99
88) 1,4-Dichlorobenzene	13.364	146	482756	96.707	ug/l		99
89) n-Butylbenzene	13.614	91	966758	98.789	ug/l		99
90) Hexachloroethane	13.883	117	202399	98.910	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	430383	98.552	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	30584	99.008	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	276806	104.790	ug/l		99
94) Hexachlorobutadiene	15.023	225	170325	98.635	ug/l		99
95) Naphthalene	15.145	128	511948	113.046	ug/l		99
96) 1,2,3-Trichlorobenzene	15.327	180	234803	105.207	ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
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 :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 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

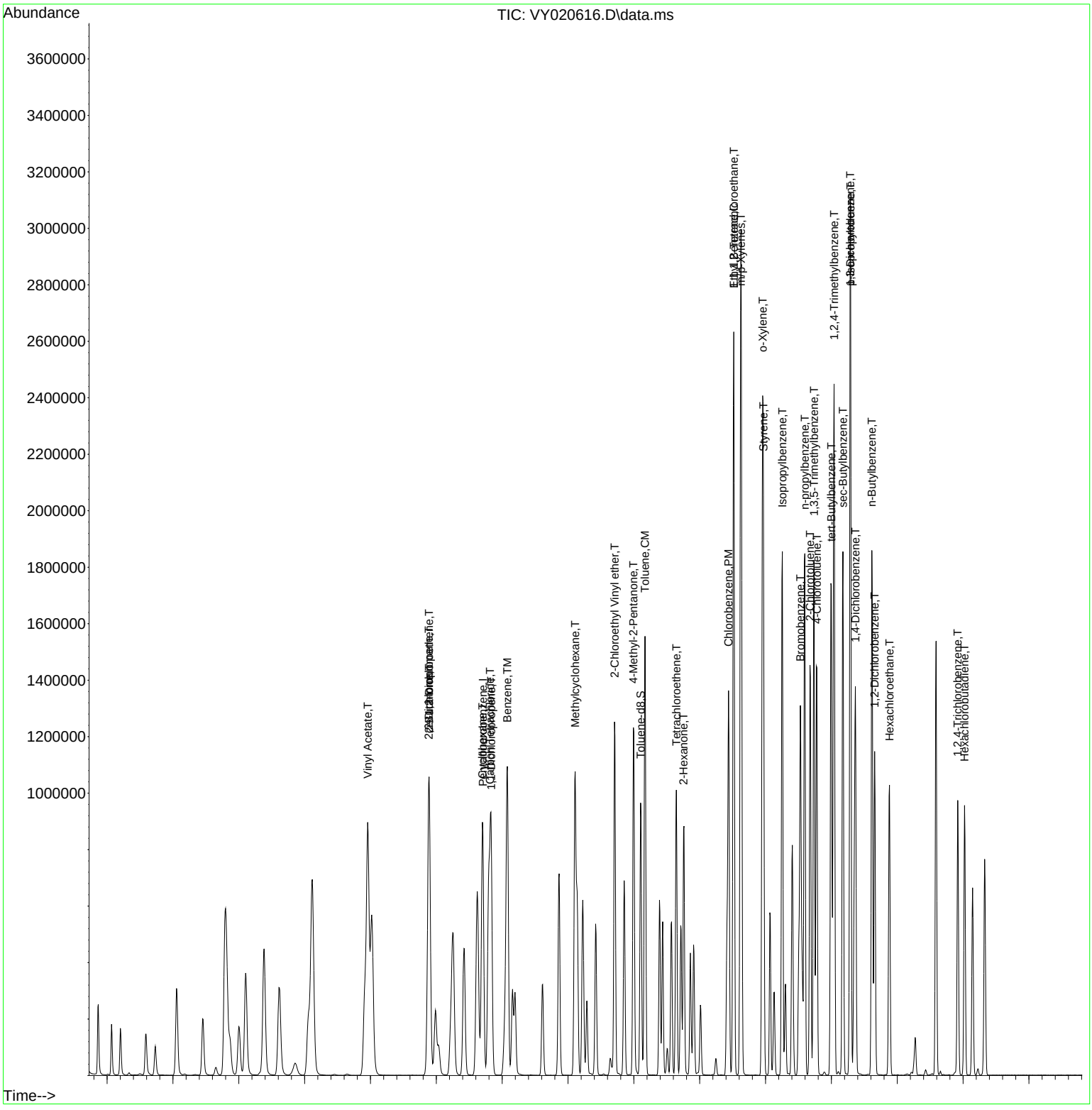
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
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 :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	184362	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	278509	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	244385	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	135852	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	258496	128.022	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 256.040%#			
35) Dibromofluoromethane	7.634	113	261486	133.217	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 266.440%#			
50) Toluene-d8	10.103	98	919148	133.785	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 267.580%#			
62) 4-Bromofluorobenzene	12.402	95	343903	127.965	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 255.940%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	305452	132.646	ug/l	99
3) Chloromethane	2.068	50	205555	120.474	ug/l	97
4) Vinyl Chloride	2.202	62	206764	130.199	ug/l	100
5) Bromomethane	2.586	94	140413	137.550	ug/l	99
6) Chloroethane	2.727	64	138821	141.459	ug/l	98
7) Trichlorofluoromethane	3.056	101	447890	134.789	ug/l	98
8) Diethyl Ether	3.452	74	150374	129.035	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	297171	124.769	ug/l	100
10) Methyl Iodide	4.001	142	345686	130.361	ug/l	99
11) Tert butyl alcohol	4.866	59	123878	737.397	ug/l	100
12) 1,1-Dichloroethene	3.787	96	291982	126.344	ug/l	98
13) Acrolein	3.653	56	42281	442.848	ug/l	97
14) Allyl chloride	4.385	41	498233	123.037	ug/l	99
15) Acrylonitrile	5.055	53	365294	655.216	ug/l	98
17) Carbon Disulfide	4.104	76	923365	122.748	ug/l	100
18) Methyl Acetate	4.385	43	161535	117.584	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	810589	135.895	ug/l	96
20) Methylene Chloride	4.616	84	329862	131.394	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	351487	135.586	ug/l	99
22) Diisopropyl ether	6.019	45	1089955	132.601	ug/l	99
23) Vinyl Acetate	5.958	43	3123065	670.840	ug/l	100
24) 1,1-Dichloroethane	5.915	63	648906	134.755	ug/l	100
25) 2-Butanone	6.890	43	458674	611.252	ug/l	100
26) 2,2-Dichloropropane	6.884	77	575868	126.503	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	400187	134.176	ug/l	99
28) Bromochloromethane	7.244	49	238929	147.100	ug/l	99
29) Tetrahydrofuran	7.262	42	305396	644.700	ug/l	99
30) Chloroform	7.421	83	656177	145.857	ug/l	98
31) Cyclohexane	7.701	56	584271	126.896	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	600711	135.784	ug/l	99
36) 1,1-Dichloropropene	7.835	75	485468	135.636	ug/l	99
37) Ethyl Acetate	6.982	43	213468	126.794	ug/l	99
38) Carbon Tetrachloride	7.817	117	548361	138.477	ug/l	98
39) Methylcyclohexane	9.110	83	640301	137.259	ug/l	98
40) Benzene	8.079	78	1431012	136.402	ug/l	98
41) Methacrylonitrile	7.220	41	119101	133.813	ug/l	95

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
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: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 1,2-Dichloroethane	8.159	62	377438	135.647	ug/l		100
43) Isopropyl Acetate	8.195	43	433206	135.916	ug/l		100
44) Trichloroethene	8.866	130	352263	136.648	ug/l		98
45) 1,2-Dichloropropane	9.140	63	335340	136.766	ug/l		98
46) Dibromomethane	9.225	93	174812	134.905	ug/l		99
47) Bromodichloromethane	9.420	83	485795	138.787	ug/l		98
48) Methyl methacrylate	9.219	41	210550	138.957	ug/l		99
49) 1,4-Dioxane	9.225	88	41221	2773.834	ug/l		100
51) 4-Methyl-2-Pentanone	9.994	43	1092140	649.161	ug/l		99
52) Toluene	10.170	92	904033	138.659	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	464905	142.541	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	540157	139.760	ug/l		99
55) 1,1,2-Trichloroethane	10.567	97	230372	134.466	ug/l		97
56) Ethyl methacrylate	10.439	69	363115	146.095	ug/l		98
57) 1,3-Dichloropropane	10.713	76	413542	135.406	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	826777	790.569	ug/l		99
59) 2-Hexanone	10.756	43	731842	677.527	ug/l		98
60) Dibromochloromethane	10.908	129	318266	138.906	ug/l		99
61) 1,2-Dibromoethane	11.012	107	218394	137.043	ug/l		100
64) Tetrachloroethene	10.646	164	309587	134.678	ug/l		97
65) Chlorobenzene	11.438	112	948051	138.742	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.512	131	324778	138.995	ug/l		98
67) Ethyl Benzene	11.518	91	1770086	140.410	ug/l		99
68) m/p-Xylenes	11.627	106	1308282	279.114	ug/l		100
69) o-Xylene	11.951	106	617079	141.099	ug/l		99
70) Styrene	11.969	104	1031166	141.122	ug/l		99
71) Bromoform	12.133	173	183216	139.463	ug/l	#	98
73) Isopropylbenzene	12.255	105	1651138	139.276	ug/l		100
74) N-amyl acetate	12.066	43	396216	142.807	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	258787	134.480	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	183456m	131.115	ug/l		
77) Bromobenzene	12.530	156	357464	138.423	ug/l		100
78) n-propylbenzene	12.597	91	1971458	138.026	ug/l		99
79) 2-Chlorotoluene	12.676	91	1111362	138.298	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	1332805	138.553	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	96747	143.899	ug/l		98
82) 4-Chlorotoluene	12.774	91	1135416	136.190	ug/l		100
83) tert-Butylbenzene	12.999	119	1219521	139.985	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	1313945	139.253	ug/l		99
85) sec-Butylbenzene	13.176	105	1737212	137.147	ug/l		100
86) p-Isopropyltoluene	13.292	119	1456581	139.472	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	693843	136.109	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	684559	135.587	ug/l		100
89) n-Butylbenzene	13.615	91	1382912	139.722	ug/l		99
90) Hexachloroethane	13.877	117	293562	141.843	ug/l		99
91) 1,2-Dichlorobenzene	13.658	146	611871	138.532	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	43513	139.274	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	403445	151.011	ug/l		99
94) Hexachlorobutadiene	15.023	225	250003	143.145	ug/l		100
95) Naphthalene	15.145	128	736677	160.836	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	344880	152.787	ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
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 :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 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

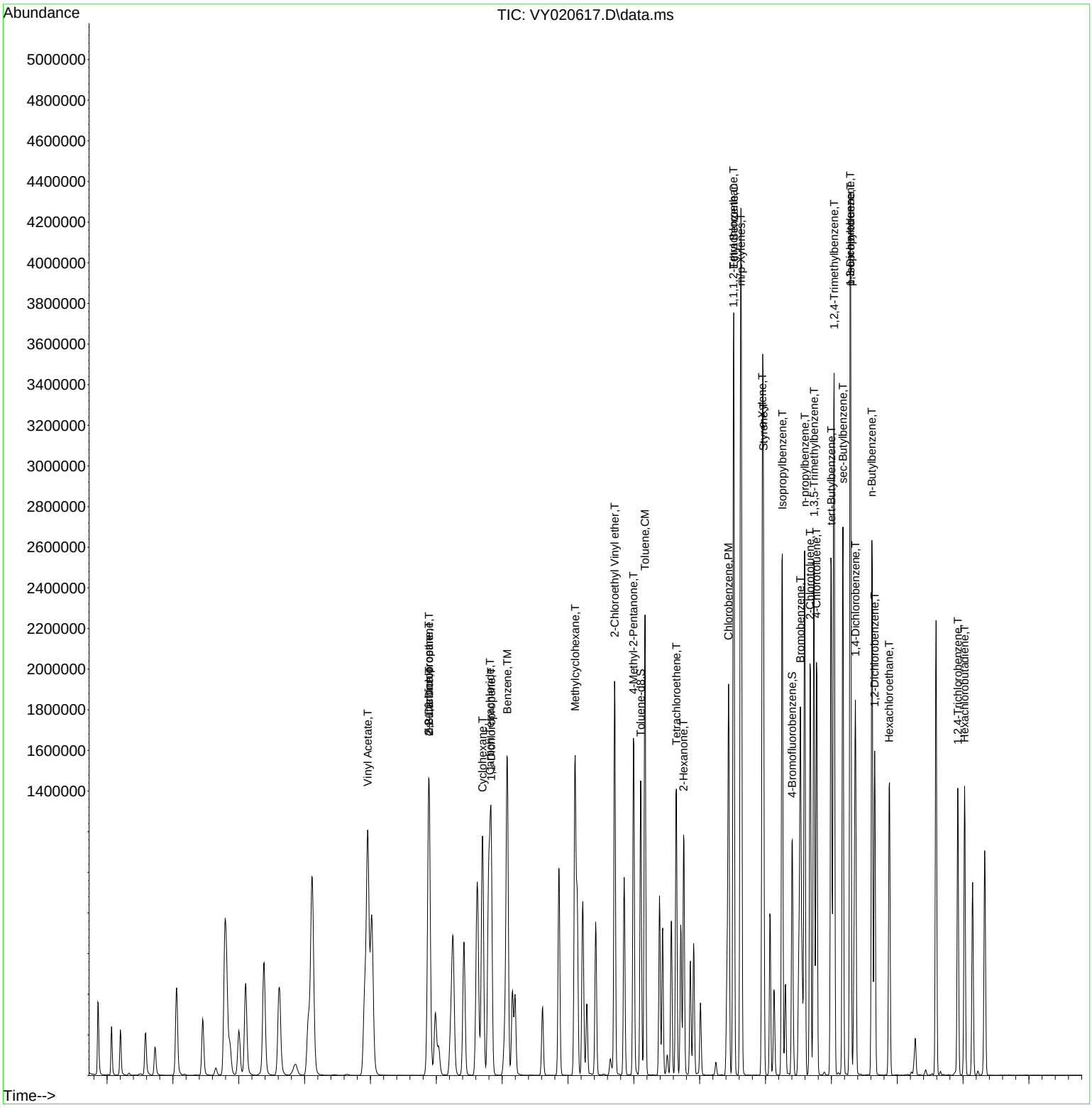
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.713	168	167036	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.616	114	257526	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	219786	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	120870	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.067	65	10628	5.810	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	11.620%#			
35) Dibromofluoromethane	7.634	113	10393	5.726	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	11.460%#			
50) Toluene-d8	10.109	98	37211	5.858	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	11.720%#			
62) 4-Bromofluorobenzene	12.408	95	15073	6.066	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	12.140%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	11112	5.326	ug/l		100
3) Chloromethane	2.074	50	9266	5.994	ug/l		89
4) Vinyl Chloride	2.208	62	8140	5.657	ug/l		91
5) Bromomethane	2.599	94	5462	5.906	ug/l		84
6) Chloroethane	2.739	64	5039	5.667	ug/l		97
7) Trichlorofluoromethane	3.068	101	16587	5.509	ug/l		89
8) Diethyl Ether	3.464	74	5733	5.430	ug/l		98
9) 1,1,2-Trichlorotrifluo...	3.818	101	11901	5.515	ug/l		98
10) Methyl Iodide	4.007	142	11197	4.660	ug/l		98
11) Tert butyl alcohol	4.848	59	7794	12.197	ug/l	#	86
12) 1,1-Dichloroethene	3.787	96	11147	5.324	ug/l		85
13) Acrolein	3.659	56	2720	31.444	ug/l		97
14) Allyl chloride	4.385	41	19430	5.296	ug/l		98
15) Acrylonitrile	5.061	53	12057	23.869	ug/l		98
16) Acetone	3.873	43	14032	33.023	ug/l		94
17) Carbon Disulfide	4.110	76	35780	5.250	ug/l		97
18) Methyl Acetate	4.391	43	6311	5.070	ug/l		98
19) Methyl tert-butyl Ether	5.122	73	25765	4.768	ug/l		93
20) Methylene Chloride	4.616	84	12792	5.624	ug/l		97
21) trans-1,2-Dichloroethene	5.116	96	11813	5.030	ug/l		93
22) Diisopropyl ether	6.019	45	37011	4.970	ug/l	#	88
23) Vinyl Acetate	5.964	43	98112	23.261	ug/l		98
24) 1,1-Dichloroethane	5.915	63	22261	5.102	ug/l		96
25) 2-Butanone	6.897	43	19017	27.972	ug/l		94
26) 2,2-Dichloropropane	6.878	77	24236	5.876	ug/l		93
27) cis-1,2-Dichloroethene	6.890	96	13806	5.109	ug/l		93
28) Bromochloromethane	7.244	49	7129	4.844	ug/l		96
29) Tetrahydrofuran	7.268	42	9729	22.669	ug/l		97
30) Chloroform	7.421	83	34563	2.901	ug/l		98
31) Cyclohexane	7.707	56	24108	5.779	ug/l	#	85
32) 1,1,1-Trichloroethane	7.622	97	20368	5.082	ug/l		99
36) 1,1-Dichloropropene	7.835	75	17712	5.352	ug/l		98
37) Ethyl Acetate	6.988	43	7613	4.890	ug/l		96
38) Carbon Tetrachloride	7.817	117	18792	5.132	ug/l		96
39) Methylcyclohexane	9.110	83	22745	5.273	ug/l		94
40) Benzene	8.079	78	49636	5.117	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.232	41	3782m	4.595 ug/l		
42) 1,2-Dichloroethane	8.159	62	12917	5.020 ug/l		95
43) Isopropyl Acetate	8.195	43	13361	4.533 ug/l	#	86
44) Trichloroethene	8.866	130	12384	5.195 ug/l		88
45) 1,2-Dichloropropane	9.146	63	11378	5.019 ug/l		96
46) Dibromomethane	9.231	93	5965	4.978 ug/l		99
47) Bromodichloromethane	9.420	83	16115	4.979 ug/l		98
48) Methyl methacrylate	9.219	41	6545	4.671 ug/l		93
49) 1,4-Dioxane	9.225	88	1268	92.278 ug/l	#	82
51) 4-Methyl-2-Pentanone	10.000	43	38280	24.607 ug/l		98
52) Toluene	10.170	92	30294	5.025 ug/l		98
53) t-1,3-Dichloropropene	10.396	75	13747	4.558 ug/l		99
54) cis-1,3-Dichloropropene	9.859	75	17025	4.764 ug/l		95
55) 1,1,2-Trichloroethane	10.573	97	7935	5.009 ug/l		93
56) Ethyl methacrylate	10.439	69	10000	4.351 ug/l		98
57) 1,3-Dichloropropane	10.719	76	13754	4.870 ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	23872	24.686 ug/l		100
59) 2-Hexanone	10.762	43	23164	23.192 ug/l		99
60) Dibromochloromethane	10.914	129	10207	4.818 ug/l		98
61) 1,2-Dibromoethane	11.018	107	7143	4.847 ug/l		100
64) Tetrachloroethene	10.646	164	11707	5.663 ug/l		96
65) Chlorobenzene	11.445	112	31674	5.154 ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	10526	5.009 ug/l		94
67) Ethyl Benzene	11.518	91	57861	5.103 ug/l		100
68) m/p-Xylenes	11.627	106	43257	10.262 ug/l		100
69) o-Xylene	11.957	106	19639	4.993 ug/l		99
70) Styrene	11.969	104	32495	4.945 ug/l		99
71) Bromoform	12.133	173	5762	4.877 ug/l	#	98
73) Isopropylbenzene	12.255	105	53196	5.043 ug/l		100
74) N-amyl acetate	12.072	43	10480	4.245 ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	8331	4.866 ug/l		97
76) 1,2,3-Trichloropropane	12.560	75	6432m	5.167 ug/l		
77) Bromobenzene	12.536	156	11774	5.124 ug/l		98
78) n-propylbenzene	12.597	91	64140	5.047 ug/l		97
79) 2-Chlorotoluene	12.682	91	36508	5.106 ug/l		98
80) 1,3,5-Trimethylbenzene	12.737	105	43711	5.107 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	2558	4.276 ug/l		90
82) 4-Chlorotoluene	12.780	91	39447	5.318 ug/l		98
83) tert-Butylbenzene	12.999	119	38538	4.972 ug/l		98
84) 1,2,4-Trimethylbenzene	13.048	105	41754	4.974 ug/l		97
85) sec-Butylbenzene	13.176	105	58088	5.154 ug/l		100
86) p-Isopropyltoluene	13.292	119	46384	4.992 ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	23757	5.238 ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	24276	5.404 ug/l		94
89) n-Butylbenzene	13.621	91	43817	4.976 ug/l		99
90) Hexachloroethane	13.883	117	9361	5.084 ug/l		100
91) 1,2-Dichlorobenzene	13.664	146	20478	5.211 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	1404	5.051 ug/l		89
93) 1,2,4-Trichlorobenzene	14.926	180	11648	4.900 ug/l		98
94) Hexachlorobutadiene	15.029	225	8059	5.186 ug/l		99
95) Naphthalene	15.151	128	17365	4.261 ug/l		100
96) 1,2,3-Trichlorobenzene	15.334	180	9821	4.890 ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 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

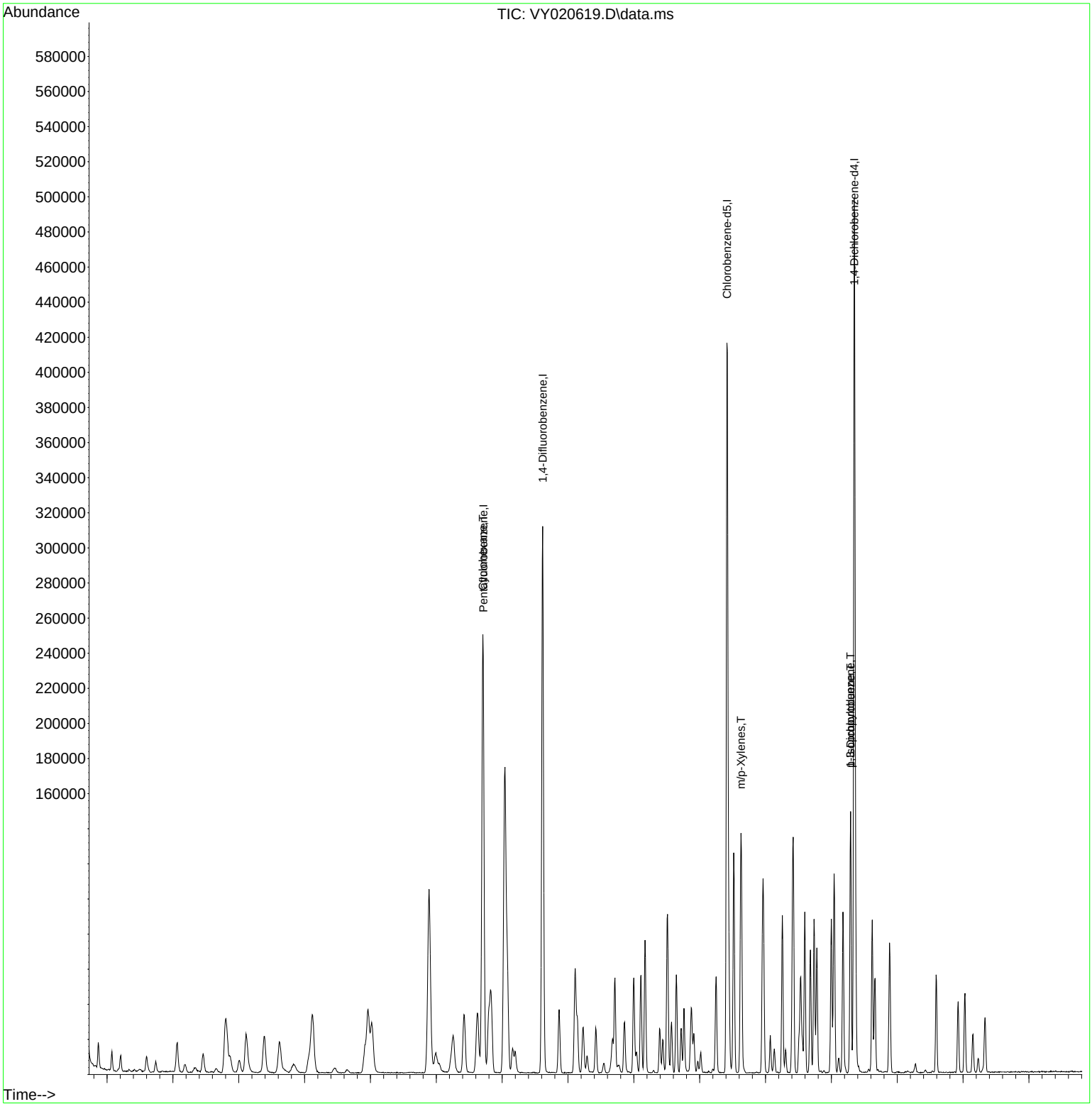
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	173629	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	261652	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	229207	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	127757	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	79812	41.971	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 83.940%			
35) Dibromofluoromethane	7.634	113	82508	44.743	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 89.480%			
50) Toluene-d8	10.103	98	297999	46.169	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 92.340%			
62) 4-Bromofluorobenzene	12.408	95	108522	42.982	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 85.960%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	103417	47.686	ug/l	96
3) Chloromethane	2.068	50	72696	45.240	ug/l	96
4) Vinyl Chloride	2.202	62	72204	48.277	ug/l	100
5) Bromomethane	2.599	94	46536	48.405	ug/l	95
6) Chloroethane	2.733	64	44843	48.520	ug/l	95
7) Trichlorofluoromethane	3.062	101	147334	47.080	ug/l	100
8) Diethyl Ether	3.458	74	48299	44.007	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	111288	49.613	ug/l	100
10) Methyl Iodide	4.007	142	125272	50.161	ug/l	98
11) Tert butyl alcohol	4.854	59	35896	166.993	ug/l	99
12) 1,1-Dichloroethene	3.787	96	109207	50.176	ug/l	99
13) Acrolein	3.653	56	13043	145.056	ug/l	95
14) Allyl chloride	4.385	41	194403	50.975	ug/l	99
15) Acrylonitrile	5.055	53	111135	211.661	ug/l	99
16) Acetone	3.867	43	128884	343.570	ug/l	95
17) Carbon Disulfide	4.110	76	357372	50.444	ug/l	99
18) Methyl Acetate	4.385	43	56965	44.029	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	254917	45.379	ug/l	98
20) Methylene Chloride	4.616	84	110314	46.658	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	118791	48.656	ug/l	96
22) Diisopropyl ether	6.019	45	373306	48.223	ug/l	96
23) Vinyl Acetate	5.964	43	993429	226.581	ug/l	99
24) 1,1-Dichloroethane	5.915	63	221322	48.802	ug/l	100
25) 2-Butanone	6.897	43	162705	230.232	ug/l	97
26) 2,2-Dichloropropane	6.884	77	199229	46.471	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	135394	48.202	ug/l	100
28) Bromochloromethane	7.244	49	78629	51.402	ug/l	99
29) Tetrahydrofuran	7.262	42	90590	203.060	ug/l	98
30) Chloroform	7.421	83	227671	49.995	ug/l	97
31) Cyclohexane	7.701	56	199127	45.921	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	203477	48.837	ug/l	99
36) 1,1-Dichloropropene	7.835	75	166171	49.418	ug/l	99
37) Ethyl Acetate	6.982	43	67205	42.490	ug/l	99
38) Carbon Tetrachloride	7.817	117	185268	49.800	ug/l	99
39) Methylcyclohexane	9.110	83	214365	48.913	ug/l	98
40) Benzene	8.079	78	486468	49.357	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.220	41	39828	47.631 ug/l #	86
42) 1,2-Dichloroethane	8.159	62	122520	46.869 ug/l	99
43) Isopropyl Acetate	8.195	43	130339	43.528 ug/l #	88
44) Trichloroethene	8.866	130	120014	49.555 ug/l	98
45) 1,2-Dichloropropane	9.140	63	112171	48.695 ug/l	98
46) Dibromomethane	9.232	93	56323	46.265 ug/l	99
47) Bromodichloromethane	9.421	83	158529	48.208 ug/l	100
48) Methyl methacrylate	9.219	41	63016	44.268 ug/l	99
49) 1,4-Dioxane	9.232	88	11394	816.119 ug/l	97
51) 4-Methyl-2-Pentanone	10.000	43	331396	209.670 ug/l	100
52) Toluene	10.170	92	300584	49.073 ug/l	99
53) t-1,3-Dichloropropene	10.390	75	146498	47.810 ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	178584	49.184 ug/l	100
55) 1,1,2-Trichloroethane	10.573	97	73962	45.952 ug/l	99
56) Ethyl methacrylate	10.439	69	108638	46.525 ug/l	98
57) 1,3-Dichloropropane	10.713	76	134515	46.882 ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	239347	243.610 ug/l	100
59) 2-Hexanone	10.756	43	240324	236.822 ug/l	100
60) Dibromochloromethane	10.908	129	101431	47.121 ug/l	97
61) 1,2-Dibromoethane	11.018	107	68798	45.952 ug/l	99
64) Tetrachloroethene	10.646	164	106990	49.626 ug/l	94
65) Chlorobenzene	11.438	112	313945	48.986 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	107564	49.083 ug/l	99
67) Ethyl Benzene	11.518	91	588990	49.815 ug/l	99
68) m/p-Xylenes	11.627	106	437108	99.430 ug/l	100
69) o-Xylene	11.957	106	203316	49.568 ug/l	98
70) Styrene	11.969	104	341470	49.827 ug/l	99
71) Bromoform	12.133	173	56002	45.451 ug/l #	100
73) Isopropylbenzene	12.255	105	556414	49.908 ug/l	100
74) N-amyl acetate	12.072	43	118269	45.328 ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.505	83	81117	44.824 ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	60828m	45.834 ug/l	
77) Bromobenzene	12.536	156	117217	48.267 ug/l	99
78) n-propylbenzene	12.597	91	668577	49.775 ug/l	100
79) 2-Chlorotoluene	12.682	91	375047	49.628 ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	452266	49.995 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	28650	45.313 ug/l	99
82) 4-Chlorotoluene	12.780	91	383617	48.929 ug/l	100
83) tert-Butylbenzene	12.999	119	405285	49.469 ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	442582	49.877 ug/l	100
85) sec-Butylbenzene	13.176	105	589060	49.451 ug/l	100
86) p-Isopropyltoluene	13.292	119	492898	50.187 ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	233241	48.653 ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	227374	47.888 ug/l	100
89) n-Butylbenzene	13.621	91	472143	50.725 ug/l	99
90) Hexachloroethane	13.883	117	96035	49.342 ug/l	100
91) 1,2-Dichlorobenzene	13.658	146	200049	48.162 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	12169	41.418 ug/l	97
93) 1,2,4-Trichlorobenzene	14.926	180	124084	49.388 ug/l	99
94) Hexachlorobutadiene	15.029	225	84375	51.372 ug/l	99
95) Naphthalene	15.145	128	199622	46.344 ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	103298	48.662 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 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

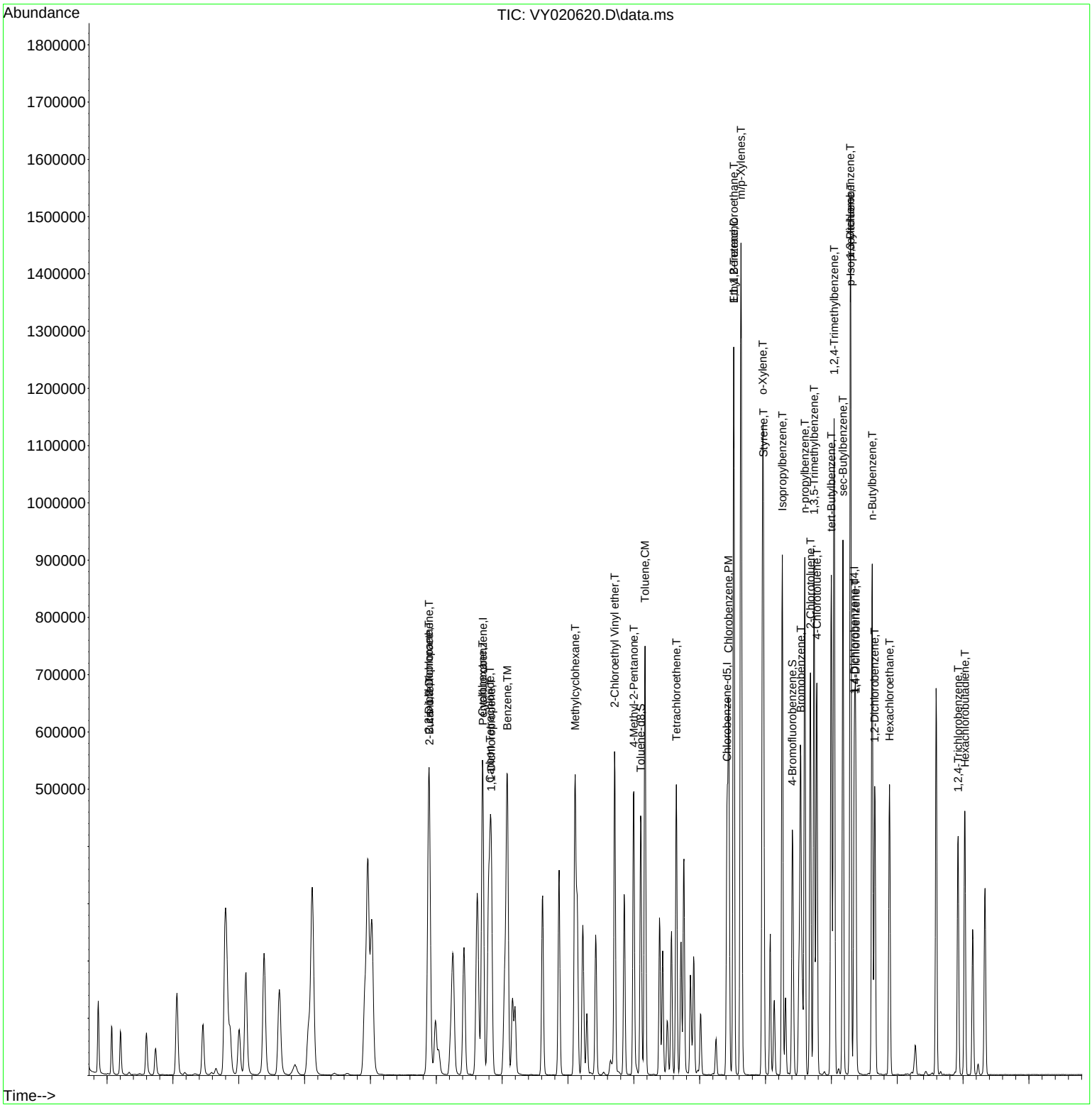
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 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	103	0.00
2	T	Dichlorodifluoromethane	0.625	0.596	4.6	99	0.00
3	P	Chloromethane	0.463	0.419	9.5	100	0.00
4	C	Vinyl Chloride	0.431	0.416	3.5#	115	0.00
5	T	Bromomethane	0.277	0.268	3.2	120	0.00
6	T	Chloroethane	0.266	0.258	3.0	125	0.00
7	T	Trichlorofluoromethane	0.901	0.849	5.8	110	0.00
8	T	Diethyl Ether	0.316	0.278	12.0	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.646	0.641	0.8	109	0.00
10	T	Methyl Iodide	0.719	0.721	-0.3	107	0.00
11	T	Tert butyl alcohol	0.071	0.041	42.3#	84	0.00
12	CM	1,1-Dichloroethene	0.627	0.629	-0.3#	109	0.00
13	T	Acrolein	0.026	0.015	42.3#	89	0.00
14	T	Allyl chloride	1.098	1.120	-2.0	112	0.00
15	T	Acrylonitrile	0.151	0.128	15.2	85	0.00
16	T	Acetone	0.125	0.148	-18.4	155#	0.00
17	T	Carbon Disulfide	2.040	2.058	-0.9	109	0.00
18	T	Methyl Acetate	0.373	0.328	12.1	96	0.00
19	T	Methyl tert-butyl Ether	1.618	1.468	9.3	91	0.00
20	T	Methylene Chloride	0.681	0.635	6.8	106	0.00
21	T	trans-1,2-Dichloroethene	0.703	0.684	2.7	99	0.00
22	T	Diisopropyl ether	2.229	2.150	3.5	96	0.00
23	T	Vinyl Acetate	1.263	1.144	9.4	89	0.00
24	P	1,1-Dichloroethane	1.306	1.275	2.4	99	0.00
25	T	2-Butanone	0.204	0.187	8.3	97	0.00
26	T	2,2-Dichloropropane	1.235	1.147	7.1	99	0.00
27	T	cis-1,2-Dichloroethene	0.809	0.780	3.6	98	0.00
28	T	Bromochloromethane	0.441	0.453	-2.7	94	0.00
29	T	Tetrahydrofuran	0.128	0.104	18.8	81	0.00
30	C	Chloroform	1.528	1.311	14.2#	98	0.00
31	T	Cyclohexane	1.249	1.147	8.2	98	0.00
32	T	1,1,1-Trichloroethane	1.200	1.172	2.3	100	0.00
33	S	1,2-Dichloroethane-d4	0.548	0.460	16.1	83	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35	S	Dibromofluoromethane	0.352	0.315	10.5	87	0.00
36	T	1,1-Dichloropropene	0.643	0.635	1.2	99	0.00
37	T	Ethyl Acetate	0.302	0.257	14.9	86	0.00
38	T	Carbon Tetrachloride	0.711	0.708	0.4	101	0.00
39	T	Methylcyclohexane	0.837	0.819	2.2	98	0.00
40	TM	Benzene	1.883	1.859	1.3	99	0.00
41	T	Methacrylonitrile	0.160	0.152	5.0	98	0.00
42	TM	1,2-Dichloroethane	0.500	0.468	6.4	93	0.00
43	T	Isopropyl Acetate	0.572	0.498	12.9	85	0.00
44	TM	Trichloroethene	0.463	0.459	0.9	100	0.00
45	C	1,2-Dichloropropane	0.440	0.429	2.5#	98	0.00
46	T	Dibromomethane	0.233	0.215	7.7	93	0.00
47	T	Bromodichloromethane	0.628	0.606	3.5	95	0.00
48	T	Methyl methacrylate	0.272	0.241	11.4	87	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 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	0.003	0.002	33.3#	81	0.00
50	S	Toluene-d8	1.233	1.139	7.6	89	0.00
51	T	4-Methyl-2-Pentanone	0.302	0.253	16.2	84	0.00
52	CM	Toluene	1.170	1.149	1.8#	98	0.00
53	T	t-1,3-Dichloropropene	0.586	0.560	4.4	92	0.00
54	T	cis-1,3-Dichloropropene	0.694	0.683	1.6	96	0.00
55	T	1,1,2-Trichloroethane	0.308	0.283	8.1	93	0.00
56	T	Ethyl methacrylate	0.446	0.415	7.0	90	0.00
57	T	1,3-Dichloropropane	0.548	0.514	6.2	92	0.00
58	T	2-Chloroethyl Vinyl ether	0.188	0.183	2.7	106	0.00
59	T	2-Hexanone	0.194	0.184	5.2	92	0.00
60	T	Dibromochloromethane	0.411	0.388	5.6	92	0.00
61	T	1,2-Dibromoethane	0.286	0.263	8.0	91	0.00
62	S	4-Bromofluorobenzene	0.482	0.415	13.9	86	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
64	T	Tetrachloroethene	0.470	0.467	0.6	101	0.00
65	PM	Chlorobenzene	1.398	1.370	2.0	97	0.00
66	T	1,1,1,2-Tetrachloroethane	0.478	0.469	1.9	97	0.00
67	C	Ethyl Benzene	2.579	2.570	0.3#	98	0.00
68	T	m/p-Xylenes	0.959	0.954	0.5	98	0.00
69	T	o-Xylene	0.895	0.887	0.9	97	0.00
70	T	Styrene	1.495	1.490	0.3	97	0.00
71	P	Bromoform	0.269	0.244	9.3	89	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73	T	Isopropylbenzene	4.363	4.355	0.2	98	0.00
74	T	N-amyl acetate	1.021	0.926	9.3	85	0.00
75	P	1,1,2,2-Tetrachloroethane	0.708	0.635	10.3	88	0.00
76	T	1,2,3-Trichloropropane	0.519	0.476	8.3	90	0.00
77	T	Bromobenzene	0.950	0.917	3.5	95	0.00
78	T	n-propylbenzene	5.257	5.233	0.5	97	0.00
79	T	2-Chlorotoluene	2.958	2.936	0.7	98	0.00
80	T	1,3,5-Trimethylbenzene	3.540	3.540	0.0	98	0.00
81	T	trans-1,4-Dichloro-2-butene	0.247	0.224	9.3	86	0.00
82	T	4-Chlorotoluene	3.068	3.003	2.1	96	0.00
83	T	tert-Butylbenzene	3.206	3.172	1.1	97	0.00
84	T	1,2,4-Trimethylbenzene	3.473	3.464	0.3	96	0.00
85	T	sec-Butylbenzene	4.662	4.611	1.1	97	0.00
86	T	p-Isopropyltoluene	3.844	3.858	-0.4	97	0.00
87	T	1,3-Dichlorobenzene	1.876	1.826	2.7	96	0.00
88	T	1,4-Dichlorobenzene	1.858	1.780	4.2	95	0.00
89	T	n-Butylbenzene	3.643	3.696	-1.5	97	0.00
90	T	Hexachloroethane	0.762	0.752	1.3	97	0.00
91	T	1,2-Dichlorobenzene	1.626	1.566	3.7	96	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.115	0.095	17.4	83	0.00
93	T	1,2,4-Trichlorobenzene	0.983	0.971	1.2	94	0.00
94	T	Hexachlorobutadiene	0.643	0.660	-2.6	99	0.00
95	T	Naphthalene	1.686	1.563	7.3	87	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 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	0.831	0.809	2.6	92	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\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	50.000	47.686	4.6	99	0.00
3	P	Chloromethane	50.000	45.240	9.5	100	0.00
4	C	Vinyl Chloride	50.000	48.277	3.4#	115	0.00
5	T	Bromomethane	50.000	48.405	3.2	120	0.00
6	T	Chloroethane	50.000	48.520	3.0	125	0.00
7	T	Trichlorofluoromethane	50.000	47.080	5.8	110	0.00
8	T	Diethyl Ether	50.000	44.007	12.0	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.613	0.8	109	0.00
10	T	Methyl Iodide	50.000	50.161	-0.3	107	0.00
11	T	Tert butyl alcohol	250.000	166.993	33.2#	84	0.00
12	CM	1,1-Dichloroethene	50.000	50.176	-0.4#	109	0.00
13	T	Acrolein	250.000	145.056	42.0#	89	0.00
14	T	Allyl chloride	50.000	50.975	-2.0	112	0.00
15	T	Acrylonitrile	250.000	211.661	15.3	85	0.00
16	T	Acetone	250.000	343.570	-37.4#	155	0.00
17	T	Carbon Disulfide	50.000	50.444	-0.9	109	0.00
18	T	Methyl Acetate	50.000	44.029	11.9	96	0.00
19	T	Methyl tert-butyl Ether	50.000	45.379	9.2	91	0.00
20	T	Methylene Chloride	50.000	46.658	6.7	106	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.656	2.7	99	0.00
22	T	Diisopropyl ether	50.000	48.223	3.6	96	0.00
23	T	Vinyl Acetate	250.000	226.581	9.4	89	0.00
24	P	1,1-Dichloroethane	50.000	48.802	2.4	99	0.00
25	T	2-Butanone	250.000	230.232	7.9	97	0.00
26	T	2,2-Dichloropropane	50.000	46.471	7.1	99	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.202	3.6	98	0.00
28	T	Bromochloromethane	50.000	51.402	-2.8	94	0.00
29	T	Tetrahydrofuran	250.000	203.060	18.8	81	0.00
30	C	Chloroform	50.000	49.995	0.0#	98	0.00
31	T	Cyclohexane	50.000	45.921	8.2	98	0.00
32	T	1,1,1-Trichloroethane	50.000	48.837	2.3	100	0.00
33	S	1,2-Dichloroethane-d4	50.000	41.971	16.1	83	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35	S	Dibromofluoromethane	50.000	44.743	10.5	87	0.00
36	T	1,1-Dichloropropene	50.000	49.418	1.2	99	0.00
37	T	Ethyl Acetate	50.000	42.490	15.0	86	0.00
38	T	Carbon Tetrachloride	50.000	49.800	0.4	101	0.00
39	T	Methylcyclohexane	50.000	48.913	2.2	98	0.00
40	TM	Benzene	50.000	49.357	1.3	99	0.00
41	T	Methacrylonitrile	50.000	47.631	4.7	98	0.00
42	TM	1,2-Dichloroethane	50.000	46.869	6.3	93	0.00
43	T	Isopropyl Acetate	50.000	43.528	12.9	85	0.00
44	TM	Trichloroethene	50.000	49.555	0.9	100	0.00
45	C	1,2-Dichloropropane	50.000	48.695	2.6#	98	0.00
46	T	Dibromomethane	50.000	46.265	7.5	93	0.00
47	T	Bromodichloromethane	50.000	48.208	3.6	95	0.00
48	T	Methyl methacrylate	50.000	44.268	11.5	87	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 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	816.119	18.4	81	0.00
50	S	Toluene-d8	50.000	46.169	7.7	89	0.00
51	T	4-Methyl-2-Pentanone	250.000	209.670	16.1	84	0.00
52	CM	Toluene	50.000	49.073	1.9#	98	0.00
53	T	t-1,3-Dichloropropene	50.000	47.810	4.4	92	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.184	1.6	96	0.00
55	T	1,1,2-Trichloroethane	50.000	45.952	8.1	93	0.00
56	T	Ethyl methacrylate	50.000	46.525	7.0	90	0.00
57	T	1,3-Dichloropropane	50.000	46.882	6.2	92	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	243.610	2.6	106	0.00
59	T	2-Hexanone	250.000	236.822	5.3	92	0.00
60	T	Dibromochloromethane	50.000	47.121	5.8	92	0.00
61	T	1,2-Dibromoethane	50.000	45.952	8.1	91	0.00
62	S	4-Bromofluorobenzene	50.000	42.982	14.0	86	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	98	0.00
64	T	Tetrachloroethene	50.000	49.626	0.7	101	0.00
65	PM	Chlorobenzene	50.000	48.986	2.0	97	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.083	1.8	97	0.00
67	C	Ethyl Benzene	50.000	49.815	0.4#	98	0.00
68	T	m/p-Xylenes	100.000	99.430	0.6	98	0.00
69	T	o-Xylene	50.000	49.568	0.9	97	0.00
70	T	Styrene	50.000	49.827	0.3	97	0.00
71	P	Bromoform	50.000	45.451	9.1	89	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73	T	Isopropylbenzene	50.000	49.908	0.2	98	0.00
74	T	N-amyl acetate	50.000	45.328	9.3	85	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	44.824	10.4	88	0.00
76	T	1,2,3-Trichloropropane	50.000	45.834	8.3	90	0.00
77	T	Bromobenzene	50.000	48.267	3.5	95	0.00
78	T	n-propylbenzene	50.000	49.775	0.5	97	0.00
79	T	2-Chlorotoluene	50.000	49.628	0.7	98	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.995	0.0	98	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	45.313	9.4	86	0.00
82	T	4-Chlorotoluene	50.000	48.929	2.1	96	0.00
83	T	tert-Butylbenzene	50.000	49.469	1.1	97	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.877	0.2	96	0.00
85	T	sec-Butylbenzene	50.000	49.451	1.1	97	0.00
86	T	p-Isopropyltoluene	50.000	50.187	-0.4	97	0.00
87	T	1,3-Dichlorobenzene	50.000	48.653	2.7	96	0.00
88	T	1,4-Dichlorobenzene	50.000	47.888	4.2	95	0.00
89	T	n-Butylbenzene	50.000	50.725	-1.5	97	0.00
90	T	Hexachloroethane	50.000	49.342	1.3	97	0.00
91	T	1,2-Dichlorobenzene	50.000	48.162	3.7	96	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	41.418	17.2	83	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.388	1.2	94	0.00
94	T	Hexachlorobutadiene	50.000	51.372	-2.7	99	0.00
95	T	Naphthalene	50.000	46.344	7.3	87	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.662	2.7	92	0.00

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

Raw Data: **VY020664.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P5279 SAS No.: P5279 SDG No.: P5279

Instrument ID: MSVOA_Y Calibration Date/Time: 12/20/2024 09:09

Lab File ID: VY020664.D Init. Calib. Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:01 14:51

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.625	0.623		-0.32	20
Chloromethane	0.463	0.405	0.1	-12.53	20
Vinyl Chloride	0.431	0.372		-13.69	20
Bromomethane	0.277	0.219		-20.94	20
Chloroethane	0.266	0.215		-19.17	20
Trichlorofluoromethane	0.901	0.877		-2.66	20
1,1,2-Trichlorotrifluoroethane	0.646	0.683		5.73	20
1,1-Dichloroethene	0.627	0.646		3.03	20
Acetone	0.125	0.112		-10.4	20
Carbon Disulfide	2.040	2.219		8.77	20
Methyl tert-butyl Ether	1.618	1.677		3.65	20
Methyl Acetate	0.373	0.402		7.78	20
Methylene Chloride	0.681	0.700		2.79	20
trans-1,2-Dichloroethene	0.703	0.742		5.55	20
1,1-Dichloroethane	1.306	1.384	0.1	5.97	20
Cyclohexane	1.249	1.227		-1.76	20
2-Butanone	0.204	0.195		-4.41	20
Carbon Tetrachloride	0.711	0.793		11.53	20
cis-1,2-Dichloroethene	0.809	0.845		4.45	20
Bromochloromethane	0.441	0.443		0.45	20
Chloroform	1.528	1.402		-8.25	20
1,1,1-Trichloroethane	1.200	1.268		5.67	20
Methylcyclohexane	0.837	0.899		7.41	20
Benzene	1.883	2.064		9.61	20
1,2-Dichloroethane	0.500	0.539		7.8	20
Trichloroethene	0.463	0.499		7.78	20
1,2-Dichloropropane	0.440	0.476		8.18	20
Bromodichloromethane	0.628	0.687		9.4	20
4-Methyl-2-Pentanone	0.302	0.310		2.65	20
Toluene	1.170	1.291		10.34	20
t-1,3-Dichloropropene	0.586	0.636		8.53	20
cis-1,3-Dichloropropene	0.694	0.769		10.81	20
1,1,2-Trichloroethane	0.308	0.334		8.44	20
2-Hexanone	0.194	0.205		5.67	20
Dibromochloromethane	0.411	0.454		10.46	20
1,2-Dibromoethane	0.286	0.306		6.99	20
Tetrachloroethene	0.470	0.508		8.09	20
Chlorobenzene	1.398	1.523	0.3	8.94	20

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

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.579	2.864		11.05	20
m/p-Xylenes	0.959	1.049		9.39	20
o-Xylene	0.895	0.981		9.61	20
Styrene	1.495	1.648		10.23	20
Bromoform	0.269	0.301	0.1	11.9	20
Isopropylbenzene	4.363	4.784		9.65	20
1,1,2,2-Tetrachloroethane	0.708	0.759	0.3	7.2	20
1,3-Dichlorobenzene	1.876	2.012		7.25	20
1,4-Dichlorobenzene	1.858	1.956		5.27	20
1,2-Dichlorobenzene	1.626	1.718		5.66	20
1,2-Dibromo-3-Chloropropane	0.115	0.117		1.74	20
1,2,4-Trichlorobenzene	0.983	1.015		3.26	20
1,2,3-Trichlorobenzene	0.831	0.845		1.68	20
1,2-Dichloroethane-d4	0.548	0.442		-19.34	20
Dibromofluoromethane	0.352	0.306		-13.07	20
Toluene-d8	1.233	1.077		-12.65	20
4-Bromofluorobenzene	0.482	0.406		-15.77	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_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	162547	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	240673	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	212145	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	119359	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	71807	40.336	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 80.680%			
35) Dibromofluoromethane	7.640	113	73716	43.459	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 86.920%			
50) Toluene-d8	10.109	98	259216	43.661	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 87.320%			
62) 4-Bromofluorobenzene	12.408	95	97623	42.036	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 84.080%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	101237	49.863	ug/l	99
3) Chloromethane	2.074	50	65890	43.800	ug/l	98
4) Vinyl Chloride	2.208	62	60443	43.169	ug/l	100
5) Bromomethane	2.605	94	35571	39.522	ug/l	96
6) Chloroethane	2.739	64	34884	40.318	ug/l	96
7) Trichlorofluoromethane	3.068	101	142498	48.639	ug/l	97
8) Diethyl Ether	3.464	74	46033	44.802	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.824	101	110942	52.831	ug/l	99
10) Methyl Iodide	4.013	142	131655	56.311	ug/l	99
11) Tert butyl alcohol	4.860	59	40751	212.136	ug/l	99
12) 1,1-Dichloroethene	3.793	96	104993	51.529	ug/l	97
13) Acrolein	3.659	56	10168	120.792	ug/l	96
14) Allyl chloride	4.391	41	192684	53.969	ug/l	99
15) Acrylonitrile	5.068	53	125271	254.850	ug/l	99
16) Acetone	3.873	43	90623	256.402	ug/l	96
17) Carbon Disulfide	4.116	76	360666	54.380	ug/l	99
18) Methyl Acetate	4.391	43	65339	53.944	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	272592	51.833	ug/l	100
20) Methylene Chloride	4.622	84	113838	51.431	ug/l	97
21) trans-1,2-Dichloroethene	5.122	96	120568	52.751	ug/l	99
22) Diisopropyl ether	6.025	45	385510	53.195	ug/l	97
23) Vinyl Acetate	5.964	43	1068233	260.253	ug/l	99
24) 1,1-Dichloroethane	5.927	63	224983	52.991	ug/l	99
25) 2-Butanone	6.896	43	158594	239.715	ug/l	100
26) 2,2-Dichloropropane	6.890	77	201830	50.287	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	137382	52.244	ug/l	99
28) Bromochloromethane	7.250	49	72076	50.330	ug/l	99
29) Tetrahydrofuran	7.268	42	104646	250.559	ug/l	100
30) Chloroform	7.427	83	227859	53.857	ug/l	98
31) Cyclohexane	7.707	56	199490	49.141	ug/l	98
32) 1,1,1-Trichloroethane	7.622	97	206129	52.846	ug/l	100
36) 1,1-Dichloropropene	7.841	75	169048	54.656	ug/l	100
37) Ethyl Acetate	6.988	43	73443	50.481	ug/l	99
38) Carbon Tetrachloride	7.823	117	190940	55.798	ug/l	99
39) Methylcyclohexane	9.116	83	216273	53.650	ug/l	97
40) Benzene	8.085	78	496803	54.799	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	39064	50.789	ug/l		93
42) 1,2-Dichloroethane	8.165	62	129790	53.978	ug/l		99
43) Isopropyl Acetate	8.201	43	146927	53.344	ug/l	#	89
44) Trichloroethene	8.866	130	120106	53.915	ug/l		98
45) 1,2-Dichloropropane	9.146	63	114657	54.113	ug/l		100
46) Dibromomethane	9.231	93	60564	54.086	ug/l		99
47) Bromodichloromethane	9.427	83	165285	54.644	ug/l		99
48) Methyl methacrylate	9.225	41	69098	52.772	ug/l		99
49) 1,4-Dioxane	9.231	88	12610	981.949	ug/l		97
51) 4-Methyl-2-Pentanone	10.000	43	372513	256.228	ug/l		100
52) Toluene	10.176	92	310772	55.159	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	153061	54.306	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	185052	55.407	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	80376	54.290	ug/l		97
56) Ethyl methacrylate	10.439	69	116828	54.394	ug/l		97
57) 1,3-Dichloropropane	10.719	76	143193	54.257	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	242438	268.265	ug/l		99
59) 2-Hexanone	10.762	43	246134	263.689	ug/l		100
60) Dibromochloromethane	10.914	129	109346	55.226	ug/l		99
61) 1,2-Dibromoethane	11.018	107	73670	53.496	ug/l		98
64) Tetrachloroethene	10.652	164	107671	53.958	ug/l		97
65) Chlorobenzene	11.444	112	323124	54.474	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	114100	56.252	ug/l		98
67) Ethyl Benzene	11.524	91	607565	55.519	ug/l		97
68) m/p-Xylenes	11.633	106	444911	109.344	ug/l		99
69) o-Xylene	11.957	106	208015	54.792	ug/l		97
70) Styrene	11.975	104	349665	55.127	ug/l		99
71) Bromoform	12.133	173	63758	55.908	ug/l	#	98
73) Isopropylbenzene	12.255	105	571028	54.823	ug/l		99
74) N-amyl acetate	12.072	43	126874	52.048	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.511	83	90544	53.553	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	62731m	50.593	ug/l		
77) Bromobenzene	12.536	156	121520	53.559	ug/l		99
78) n-propylbenzene	12.597	91	691545	55.107	ug/l		100
79) 2-Chlorotoluene	12.682	91	382585	54.188	ug/l		100
80) 1,3,5-Trimethylbenzene	12.743	105	460381	54.473	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	32476	54.979	ug/l		99
82) 4-Chlorotoluene	12.780	91	394546	53.864	ug/l		100
83) tert-Butylbenzene	12.999	119	425908	55.644	ug/l		99
84) 1,2,4-Trimethylbenzene	13.048	105	454208	54.789	ug/l		99
85) sec-Butylbenzene	13.182	105	615306	55.289	ug/l		99
86) p-Isopropyltoluene	13.298	119	507405	55.299	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	240167	53.623	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	233518	52.643	ug/l		99
89) n-Butylbenzene	13.621	91	482377	55.471	ug/l		99
90) Hexachloroethane	13.883	117	99835	54.904	ug/l		99
91) 1,2-Dichlorobenzene	13.664	146	205065	52.844	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	13979	50.926	ug/l		99
93) 1,2,4-Trichlorobenzene	14.926	180	121126	51.603	ug/l		100
94) Hexachlorobutadiene	15.029	225	83298	54.285	ug/l		99
95) Naphthalene	15.151	128	204937	50.926	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	100879	50.866	ug/l		99

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Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

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

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

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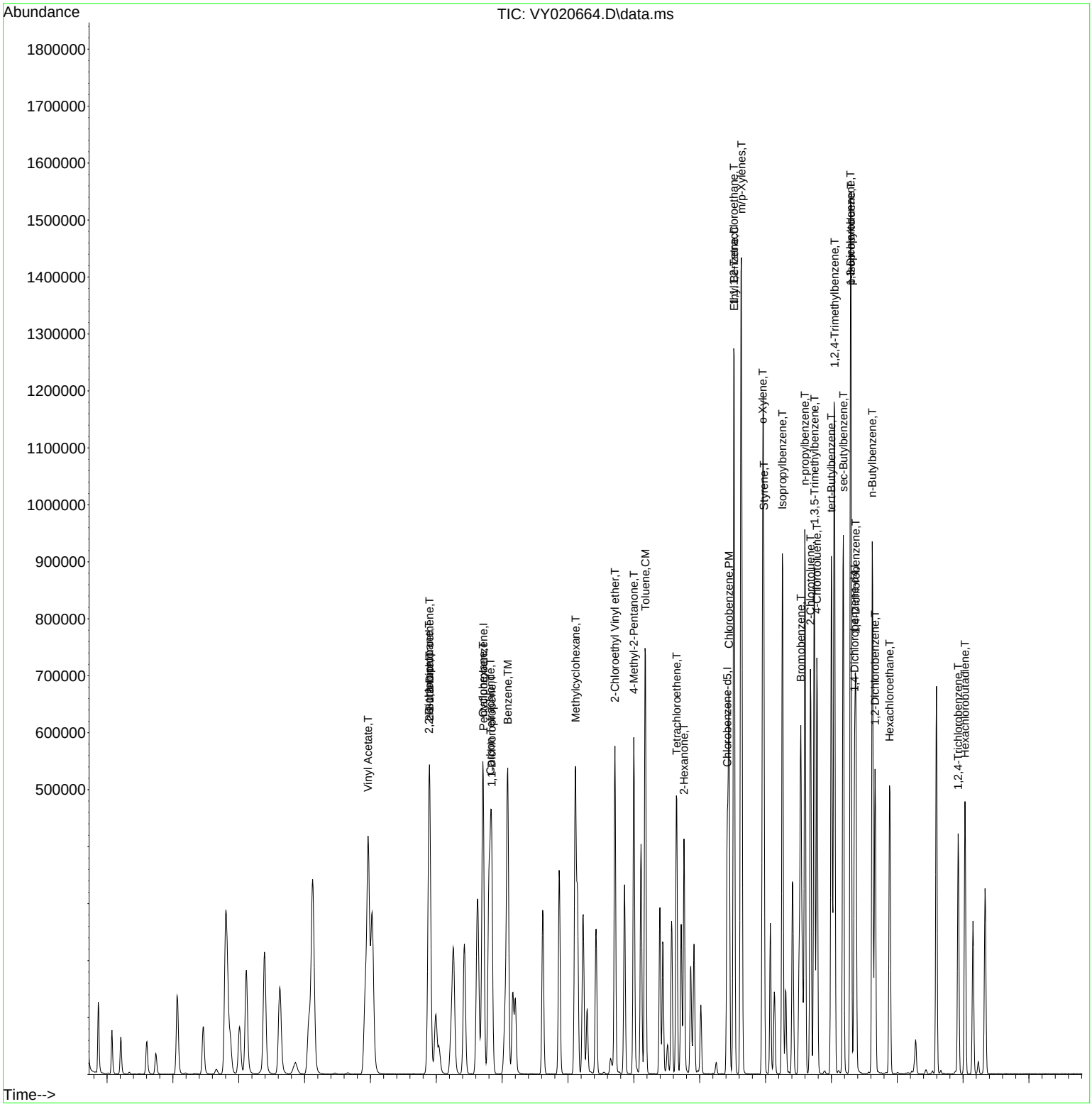

Sample Results: **VY020664.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
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Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 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	0.625	0.623	0.3	97	0.00
3	P	Chloromethane	0.463	0.405	12.5	91	0.00
4	C	Vinyl Chloride	0.431	0.372	13.7#	96	0.00
5	T	Bromomethane	0.277	0.219	20.9	92	0.00
6	T	Chloroethane	0.266	0.215	19.2	97	0.00
7	T	Trichlorofluoromethane	0.901	0.877	2.7	106	0.00
8	T	Diethyl Ether	0.316	0.283	10.4	94	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.646	0.683	-5.7	109	0.00
10	T	Methyl Iodide	0.719	0.810	-12.7	112	0.00
11	T	Tert butyl alcohol	0.071	0.050	29.6#	95	0.00
12	CM	1,1-Dichloroethene	0.627	0.646	-3.0#	105	0.00
13	T	Acrolein	0.026	0.013	50.0#	70	0.00
14	T	Allyl chloride	1.098	1.185	-7.9	111	0.00
15	T	Acrylonitrile	0.151	0.154	-2.0	96	0.01
16	T	Acetone	0.125	0.112	10.4	109	0.00
17	T	Carbon Disulfide	2.040	2.219	-8.8	110	0.01
18	T	Methyl Acetate	0.373	0.402	-7.8	110	0.00
19	T	Methyl tert-butyl Ether	1.618	1.677	-3.6	97	0.00
20	T	Methylene Chloride	0.681	0.700	-2.8	109	0.00
21	T	trans-1,2-Dichloroethene	0.703	0.742	-5.5	100	0.00
22	T	Diisopropyl ether	2.229	2.372	-6.4	100	0.00
23	T	Vinyl Acetate	1.263	1.314	-4.0	96	0.00
24	P	1,1-Dichloroethane	1.306	1.384	-6.0	100	0.01
25	T	2-Butanone	0.204	0.195	4.4	95	0.00
26	T	2,2-Dichloropropane	1.235	1.242	-0.6	101	0.00
27	T	cis-1,2-Dichloroethene	0.809	0.845	-4.4	99	0.00
28	T	Bromochloromethane	0.441	0.443	-0.5	86	0.00
29	T	Tetrahydrofuran	0.128	0.129	-0.8	93	0.00
30	C	Chloroform	1.528	1.402	8.2#	98	0.00
31	T	Cyclohexane	1.249	1.227	1.8	98	0.00
32	T	1,1,1-Trichloroethane	1.200	1.268	-5.7	102	0.00
33	S	1,2-Dichloroethane-d4	0.548	0.442	19.3	75	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
35	S	Dibromofluoromethane	0.352	0.306	13.1	78	0.00
36	T	1,1-Dichloropropene	0.643	0.702	-9.2	101	0.00
37	T	Ethyl Acetate	0.302	0.305	-1.0	94	0.00
38	T	Carbon Tetrachloride	0.711	0.793	-11.5	104	0.00
39	T	Methylcyclohexane	0.837	0.899	-7.4	99	0.00
40	TM	Benzene	1.883	2.064	-9.6	102	0.00
41	T	Methacrylonitrile	0.160	0.162	-1.3	96	0.00
42	TM	1,2-Dichloroethane	0.500	0.539	-7.8	99	0.00
43	T	Isopropyl Acetate	0.572	0.610	-6.6	96	0.00
44	TM	Trichloroethene	0.463	0.499	-7.8	100	0.00
45	C	1,2-Dichloropropane	0.440	0.476	-8.2#	100	0.00
46	T	Dibromomethane	0.233	0.252	-8.2	100	0.00
47	T	Bromodichloromethane	0.628	0.687	-9.4	99	0.00
48	T	Methyl methacrylate	0.272	0.287	-5.5	95	0.00

Sample Results: **VY020664.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
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: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 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	0.003	0.003	0.0	90	0.00
50	S	Toluene-d8	1.233	1.077	12.7	77	0.00
51	T	4-Methyl-2-Pentanone	0.302	0.310	-2.6	95	0.00
52	CM	Toluene	1.170	1.291	-10.3#	101	0.00
53	T	t-1,3-Dichloropropene	0.586	0.636	-8.5	97	0.00
54	T	cis-1,3-Dichloropropene	0.694	0.769	-10.8	100	0.00
55	T	1,1,2-Trichloroethane	0.308	0.334	-8.4	101	0.00
56	T	Ethyl methacrylate	0.446	0.485	-8.7	97	0.00
57	T	1,3-Dichloropropane	0.548	0.595	-8.6	98	0.00
58	T	2-Chloroethyl Vinyl ether	0.188	0.201	-6.9	107	0.00
59	T	2-Hexanone	0.194	0.205	-5.7	94	0.00
60	T	Dibromochloromethane	0.411	0.454	-10.5	99	0.00
61	T	1,2-Dibromoethane	0.286	0.306	-7.0	97	0.00
62	S	4-Bromofluorobenzene	0.482	0.406	15.8	77	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
64	T	Tetrachloroethene	0.470	0.508	-8.1	102	0.00
65	PM	Chlorobenzene	1.398	1.523	-8.9	100	0.00
66	T	1,1,1,2-Tetrachloroethane	0.478	0.538	-12.6	103	0.00
67	C	Ethyl Benzene	2.579	2.864	-11.1#	101	0.00
68	T	m/p-Xylenes	0.959	1.049	-9.4	100	0.00
69	T	o-Xylene	0.895	0.981	-9.6	99	0.00
70	T	Styrene	1.495	1.648	-10.2	99	0.00
71	P	Bromoform	0.269	0.301	-11.9	101	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
73	T	Isopropylbenzene	4.363	4.784	-9.6	101	0.00
74	T	N-amyl acetate	1.021	1.063	-4.1	91	0.00
75	P	1,1,2,2-Tetrachloroethane	0.708	0.759	-7.2	98	0.00
76	T	1,2,3-Trichloropropane	0.519	0.526	-1.3	92	0.00
77	T	Bromobenzene	0.950	1.018	-7.2	99	0.00
78	T	n-propylbenzene	5.257	5.794	-10.2	101	0.00
79	T	2-Chlorotoluene	2.958	3.205	-8.4	100	0.00
80	T	1,3,5-Trimethylbenzene	3.540	3.857	-9.0	99	0.00
81	T	trans-1,4-Dichloro-2-butene	0.247	0.272	-10.1	97	0.00
82	T	4-Chlorotoluene	3.068	3.306	-7.8	99	0.00
83	T	tert-Butylbenzene	3.206	3.568	-11.3	102	0.00
84	T	1,2,4-Trimethylbenzene	3.473	3.805	-9.6	99	0.00
85	T	sec-Butylbenzene	4.662	5.155	-10.6	101	0.00
86	T	p-Isopropyltoluene	3.844	4.251	-10.6	100	0.00
87	T	1,3-Dichlorobenzene	1.876	2.012	-7.2	99	0.00
88	T	1,4-Dichlorobenzene	1.858	1.956	-5.3	98	0.00
89	T	n-Butylbenzene	3.643	4.041	-10.9	99	0.00
90	T	Hexachloroethane	0.762	0.836	-9.7	100	0.00
91	T	1,2-Dichlorobenzene	1.626	1.718	-5.7	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.115	0.117	-1.7	95	0.00
93	T	1,2,4-Trichlorobenzene	0.983	1.015	-3.3	92	0.00
94	T	Hexachlorobutadiene	0.643	0.698	-8.6	97	0.00
95	T	Naphthalene	1.686	1.717	-1.8	89	0.00

Sample Results: **VY020664.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
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: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 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	0.831	0.845	-1.7	90	0.00

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

Sample Results: **VY020664.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
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: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 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	49.863	0.3	97	0.00
3	P	Chloromethane	50.000	43.800	12.4	91	0.00
4	C	Vinyl Chloride	50.000	43.169	13.7#	96	0.00
5	T	Bromomethane	50.000	39.522	21.0	92	0.00
6	T	Chloroethane	50.000	40.318	19.4	97	0.00
7	T	Trichlorofluoromethane	50.000	48.639	2.7	106	0.00
8	T	Diethyl Ether	50.000	44.802	10.4	94	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	52.831	-5.7	109	0.00
10	T	Methyl Iodide	50.000	56.311	-12.6	112	0.00
11	T	Tert butyl alcohol	250.000	212.136	15.1	95	0.00
12	CM	1,1-Dichloroethene	50.000	51.529	-3.1#	105	0.00
13	T	Acrolein	250.000	120.792	51.7#	70	0.00
14	T	Allyl chloride	50.000	53.969	-7.9	111	0.00
15	T	Acrylonitrile	250.000	254.850	-1.9	96	0.01
16	T	Acetone	250.000	256.402	-2.6	109	0.00
17	T	Carbon Disulfide	50.000	54.380	-8.8	110	0.01
18	T	Methyl Acetate	50.000	53.944	-7.9	110	0.00
19	T	Methyl tert-butyl Ether	50.000	51.833	-3.7	97	0.00
20	T	Methylene Chloride	50.000	51.431	-2.9	109	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.751	-5.5	100	0.00
22	T	Diisopropyl ether	50.000	53.195	-6.4	100	0.00
23	T	Vinyl Acetate	250.000	260.253	-4.1	96	0.00
24	P	1,1-Dichloroethane	50.000	52.991	-6.0	100	0.01
25	T	2-Butanone	250.000	239.715	4.1	95	0.00
26	T	2,2-Dichloropropane	50.000	50.287	-0.6	101	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.244	-4.5	99	0.00
28	T	Bromochloromethane	50.000	50.330	-0.7	86	0.00
29	T	Tetrahydrofuran	250.000	250.559	-0.2	93	0.00
30	C	Chloroform	50.000	53.857	-7.7#	98	0.00
31	T	Cyclohexane	50.000	49.141	1.7	98	0.00
32	T	1,1,1-Trichloroethane	50.000	52.846	-5.7	102	0.00
33	S	1,2-Dichloroethane-d4	50.000	40.336	19.3	75	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	91	0.00
35	S	Dibromofluoromethane	50.000	43.459	13.1	78	0.00
36	T	1,1-Dichloropropene	50.000	54.656	-9.3	101	0.00
37	T	Ethyl Acetate	50.000	50.481	-1.0	94	0.00
38	T	Carbon Tetrachloride	50.000	55.798	-11.6	104	0.00
39	T	Methylcyclohexane	50.000	53.650	-7.3	99	0.00
40	TM	Benzene	50.000	54.799	-9.6	102	0.00
41	T	Methacrylonitrile	50.000	50.789	-1.6	96	0.00
42	TM	1,2-Dichloroethane	50.000	53.978	-8.0	99	0.00
43	T	Isopropyl Acetate	50.000	53.344	-6.7	96	0.00
44	TM	Trichloroethene	50.000	53.915	-7.8	100	0.00
45	C	1,2-Dichloropropane	50.000	54.113	-8.2#	100	0.00
46	T	Dibromomethane	50.000	54.086	-8.2	100	0.00
47	T	Bromodichloromethane	50.000	54.644	-9.3	99	0.00
48	T	Methyl methacrylate	50.000	52.772	-5.5	95	0.00

Sample Results: **VY020664.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
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: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 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	981.949	1.8	90	0.00
50	S	Toluene-d8	50.000	43.661	12.7	77	0.00
51	T	4-Methyl-2-Pentanone	250.000	256.228	-2.5	95	0.00
52	CM	Toluene	50.000	55.159	-10.3#	101	0.00
53	T	t-1,3-Dichloropropene	50.000	54.306	-8.6	97	0.00
54	T	cis-1,3-Dichloropropene	50.000	55.407	-10.8	100	0.00
55	T	1,1,2-Trichloroethane	50.000	54.290	-8.6	101	0.00
56	T	Ethyl methacrylate	50.000	54.394	-8.8	97	0.00
57	T	1,3-Dichloropropane	50.000	54.257	-8.5	98	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	268.265	-7.3	107	0.00
59	T	2-Hexanone	250.000	263.689	-5.5	94	0.00
60	T	Dibromochloromethane	50.000	55.226	-10.5	99	0.00
61	T	1,2-Dibromoethane	50.000	53.496	-7.0	97	0.00
62	S	4-Bromofluorobenzene	50.000	42.036	15.9	77	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	91	0.00
64	T	Tetrachloroethene	50.000	53.958	-7.9	102	0.00
65	PM	Chlorobenzene	50.000	54.474	-8.9	100	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	56.252	-12.5	103	0.00
67	C	Ethyl Benzene	50.000	55.519	-11.0#	101	0.00
68	T	m/p-Xylenes	100.000	109.344	-9.3	100	0.00
69	T	o-Xylene	50.000	54.792	-9.6	99	0.00
70	T	Styrene	50.000	55.127	-10.3	99	0.00
71	P	Bromoform	50.000	55.908	-11.8	101	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	92	0.00
73	T	Isopropylbenzene	50.000	54.823	-9.6	101	0.00
74	T	N-amyl acetate	50.000	52.048	-4.1	91	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	53.553	-7.1	98	0.00
76	T	1,2,3-Trichloropropane	50.000	50.593	-1.2	92	0.00
77	T	Bromobenzene	50.000	53.559	-7.1	99	0.00
78	T	n-propylbenzene	50.000	55.107	-10.2	101	0.00
79	T	2-Chlorotoluene	50.000	54.188	-8.4	100	0.00
80	T	1,3,5-Trimethylbenzene	50.000	54.473	-8.9	99	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	54.979	-10.0	97	0.00
82	T	4-Chlorotoluene	50.000	53.864	-7.7	99	0.00
83	T	tert-Butylbenzene	50.000	55.644	-11.3	102	0.00
84	T	1,2,4-Trimethylbenzene	50.000	54.789	-9.6	99	0.00
85	T	sec-Butylbenzene	50.000	55.289	-10.6	101	0.00
86	T	p-Isopropyltoluene	50.000	55.299	-10.6	100	0.00
87	T	1,3-Dichlorobenzene	50.000	53.623	-7.2	99	0.00
88	T	1,4-Dichlorobenzene	50.000	52.643	-5.3	98	0.00
89	T	n-Butylbenzene	50.000	55.471	-10.9	99	0.00
90	T	Hexachloroethane	50.000	54.904	-9.8	100	0.00
91	T	1,2-Dichlorobenzene	50.000	52.844	-5.7	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	50.926	-1.9	95	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.603	-3.2	92	0.00
94	T	Hexachlorobutadiene	50.000	54.285	-8.6	97	0.00
95	T	Naphthalene	50.000	50.926	-1.9	89	0.00

Sample Results: **VY020664.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
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: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 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	50.866	-1.7	90	0.00

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

QC SAMPLE DATA

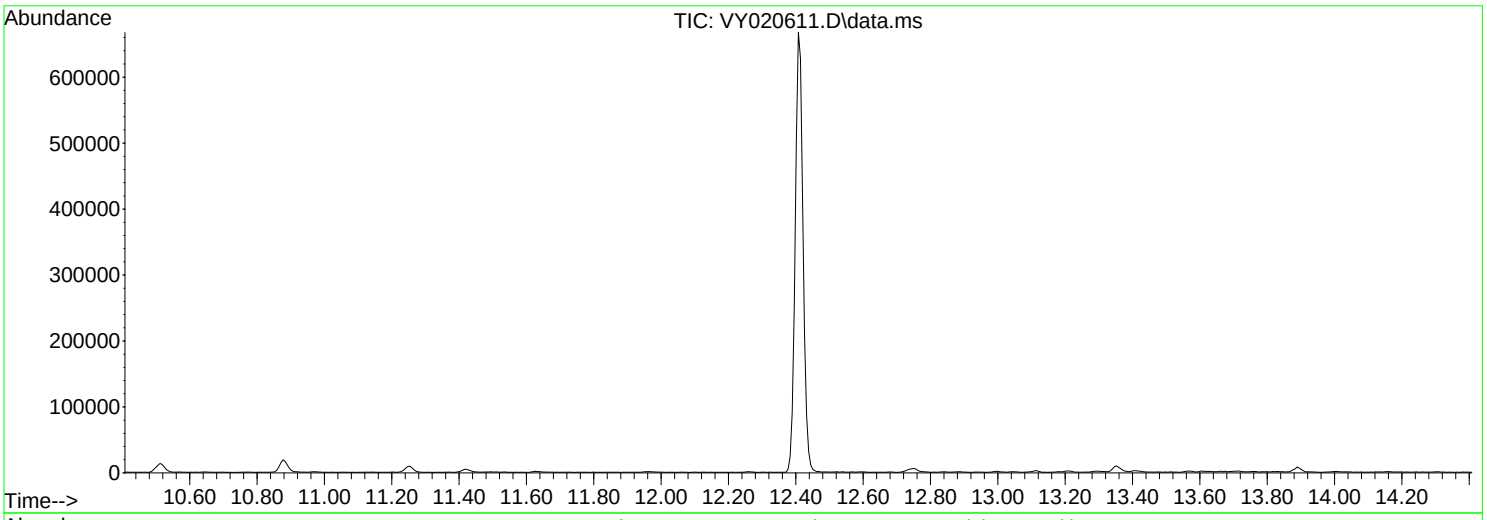
Sample Results: **VY020611.D**

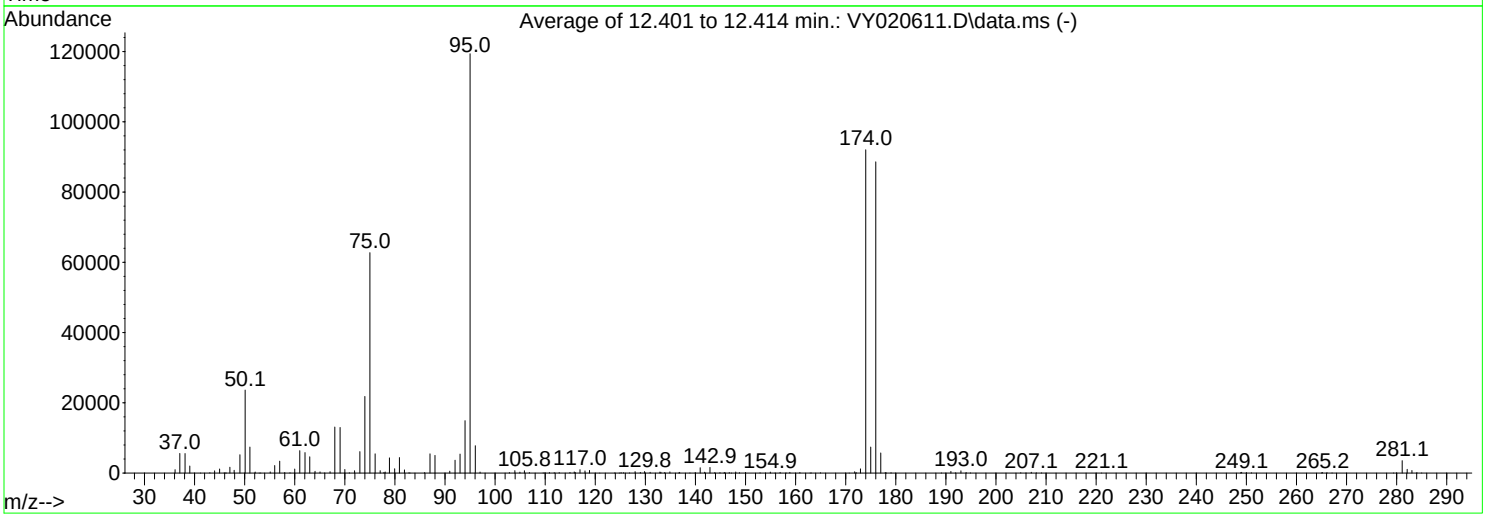
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020611.D
Acq On : 17 Dec 2024 09:00
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Title : SW846 8260
Last Update : Wed Dec 18 05:27:13 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	19.8	23624	PASS
75	95	30	60	52.6	62757	PASS
95	95	100	100	100.0	119384	PASS
96	95	5	9	6.5	7799	PASS
173	174	0.00	2	1.3	1208	PASS
174	95	50	100	77.1	92040	PASS
175	174	5	9	8.0	7407	PASS
176	174	95	101	96.3	88608	PASS
177	176	5	9	6.5	5728	PASS

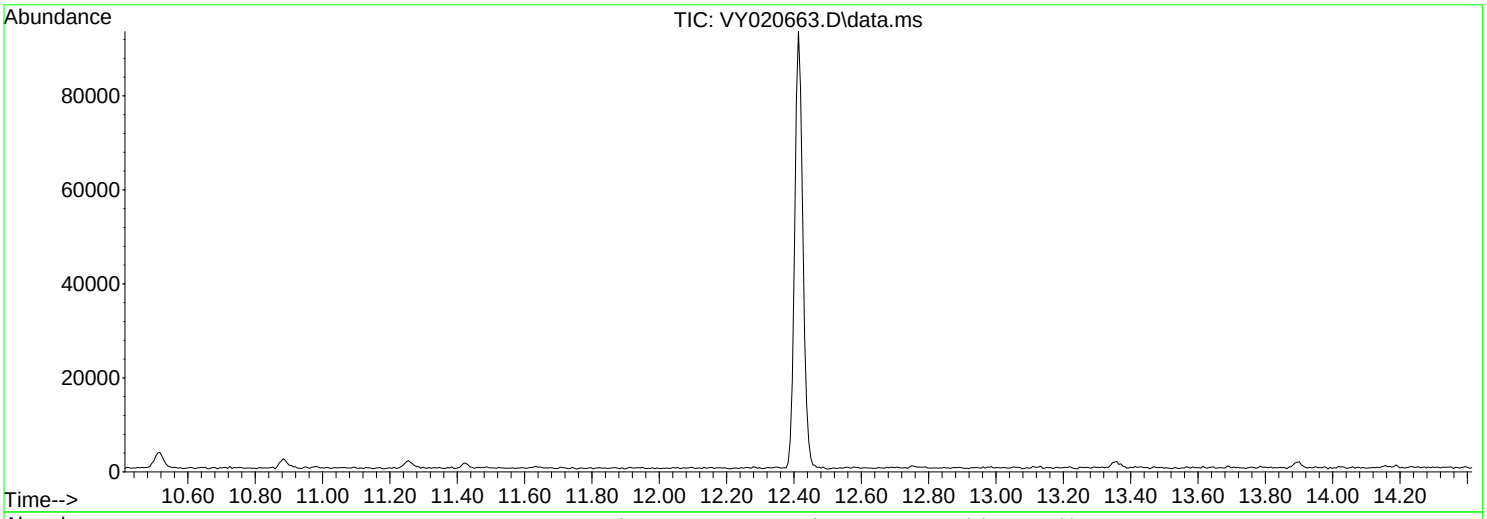
Sample Results: **VY020663.D**

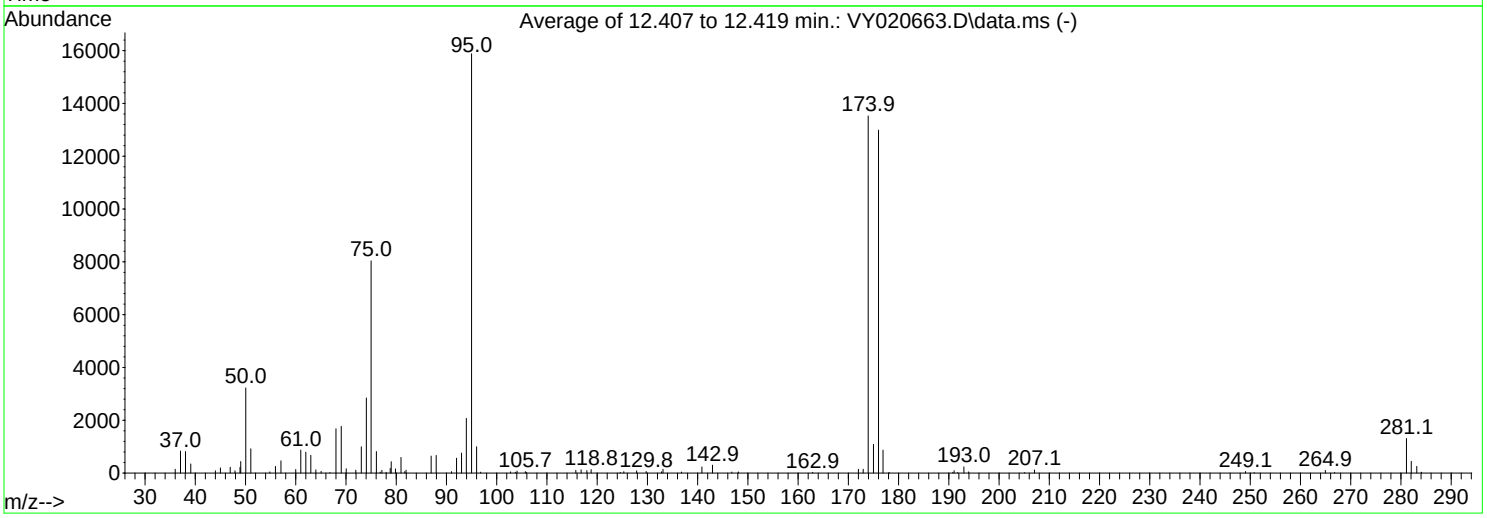
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020663.D
Acq On : 20 Dec 2024 08:37
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Title : SW846 8260
Last Update : Wed Dec 18 05:27:13 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	20.3	3225	PASS
75	95	30	60	50.6	8037	PASS
95	95	100	100	100.0	15882	PASS
96	95	5	9	6.3	996	PASS
173	174	0.00	2	1.1	146	PASS
174	95	50	100	85.2	13528	PASS
175	174	5	9	8.0	1087	PASS
176	174	95	101	96.0	12988	PASS
177	176	5	9	6.7	869	PASS

Raw Data: **VY020665.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	MTA Rockaway Park	Date Received:	
Client Sample ID:	VY1220SBL01	SDG No.:	P5279
Lab Sample ID:	VY1220SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020665.D	1		12/20/24 11:24	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.0017	U	0.0017	0.0050	mg/Kg
74-87-3	Chloromethane	0.0012	U	0.0012	0.0050	mg/Kg
75-01-4	Vinyl Chloride	0.00077	U	0.00077	0.0050	mg/Kg
74-83-9	Bromomethane	0.0010	U	0.0010	0.0050	mg/Kg
75-00-3	Chloroethane	0.0010	U	0.0010	0.0050	mg/Kg
75-69-4	Trichlorofluoromethane	0.00091	U	0.00091	0.0050	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0011	U	0.0011	0.0050	mg/Kg
75-35-4	1,1-Dichloroethene	0.00078	U	0.00078	0.0050	mg/Kg
67-64-1	Acetone	0.0062	U	0.0062	0.025	mg/Kg
75-15-0	Carbon Disulfide	0.0013	U	0.0013	0.0050	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.00067	U	0.00067	0.0050	mg/Kg
79-20-9	Methyl Acetate	0.0018	U	0.0018	0.0050	mg/Kg
75-09-2	Methylene Chloride	0.0034	U	0.0034	0.010	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.00084	U	0.00084	0.0050	mg/Kg
75-34-3	1,1-Dichloroethane	0.00063	U	0.00063	0.0050	mg/Kg
110-82-7	Cyclohexane	0.00069	U	0.00069	0.0050	mg/Kg
78-93-3	2-Butanone	0.0057	U	0.0057	0.025	mg/Kg
56-23-5	Carbon Tetrachloride	0.00087	U	0.00087	0.0050	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.00061	U	0.00061	0.0050	mg/Kg
74-97-5	Bromochloromethane	0.0024	U	0.0024	0.0050	mg/Kg
67-66-3	Chloroform	0.00067	U	0.00067	0.0050	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.00078	U	0.00078	0.0050	mg/Kg
108-87-2	Methylcyclohexane	0.00087	U	0.00087	0.0050	mg/Kg
71-43-2	Benzene	0.00072	U	0.00072	0.0050	mg/Kg
107-06-2	1,2-Dichloroethane	0.00061	U	0.00061	0.0050	mg/Kg
79-01-6	Trichloroethene	0.00075	U	0.00075	0.0050	mg/Kg
78-87-5	1,2-Dichloropropane	0.00066	U	0.00066	0.0050	mg/Kg
75-27-4	Bromodichloromethane	0.00056	U	0.00056	0.0050	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.0044	U	0.0044	0.025	mg/Kg
108-88-3	Toluene	0.00067	U	0.00067	0.0050	mg/Kg

Raw Data: **VY020665.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	MTA Rockaway Park	Date Received:	
Client Sample ID:	VY1220SBL01	SDG No.:	P5279
Lab Sample ID:	VY1220SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020665.D	1		12/20/24 11:24	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.00060	U	0.00060	0.0050	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.00057	U	0.00057	0.0050	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.00084	U	0.00084	0.0050	mg/Kg
591-78-6	2-Hexanone	0.0048	U	0.0048	0.025	mg/Kg
124-48-1	Dibromochloromethane	0.00065	U	0.00065	0.0050	mg/Kg
106-93-4	1,2-Dibromoethane	0.00079	U	0.00079	0.0050	mg/Kg
127-18-4	Tetrachloroethene	0.00089	U	0.00089	0.0050	mg/Kg
108-90-7	Chlorobenzene	0.00074	U	0.00074	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.00062	U	0.00062	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.0014	U	0.0014	0.010	mg/Kg
95-47-6	o-Xylene	0.00070	U	0.00070	0.0050	mg/Kg
100-42-5	Styrene	0.00060	U	0.00060	0.0050	mg/Kg
75-25-2	Bromoform	0.00081	U	0.00081	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.00067	U	0.00067	0.0050	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.0050	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.00074	U	0.00074	0.0050	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.00080	U	0.00080	0.0050	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.00059	U	0.00059	0.0050	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0016	U	0.0016	0.0050	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.00079	U	0.00079	0.0050	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.00078	U	0.00078	0.0050	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.1		50 - 163	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		54 - 147	101%	SPK: 50
2037-26-5	Toluene-d8	49.8		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.5		29 - 146	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	159000	7.707			
540-36-3	1,4-Difluorobenzene	246000	8.616			
3114-55-4	Chlorobenzene-d5	208000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	110000	13.347			
TENTATIVE IDENTIFIED COMPOUNDS						

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	MTA Rockaway Park	Date Received:	
Client Sample ID:	VY1220SBL01	SDG No.:	P5279
Lab Sample ID:	VY1220SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020665.D	1		12/20/24 11:24	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
001066-40-6	Silanol, trimethyl-	8.80	J		6.88	ug/Kg

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\VY122024\
Data File : VY020665.D
Acq On : 20 Dec 2024 11:24
Operator : SY/MD
Sample : VY1220SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBL01

Quant Time: Dec 20 18:08:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

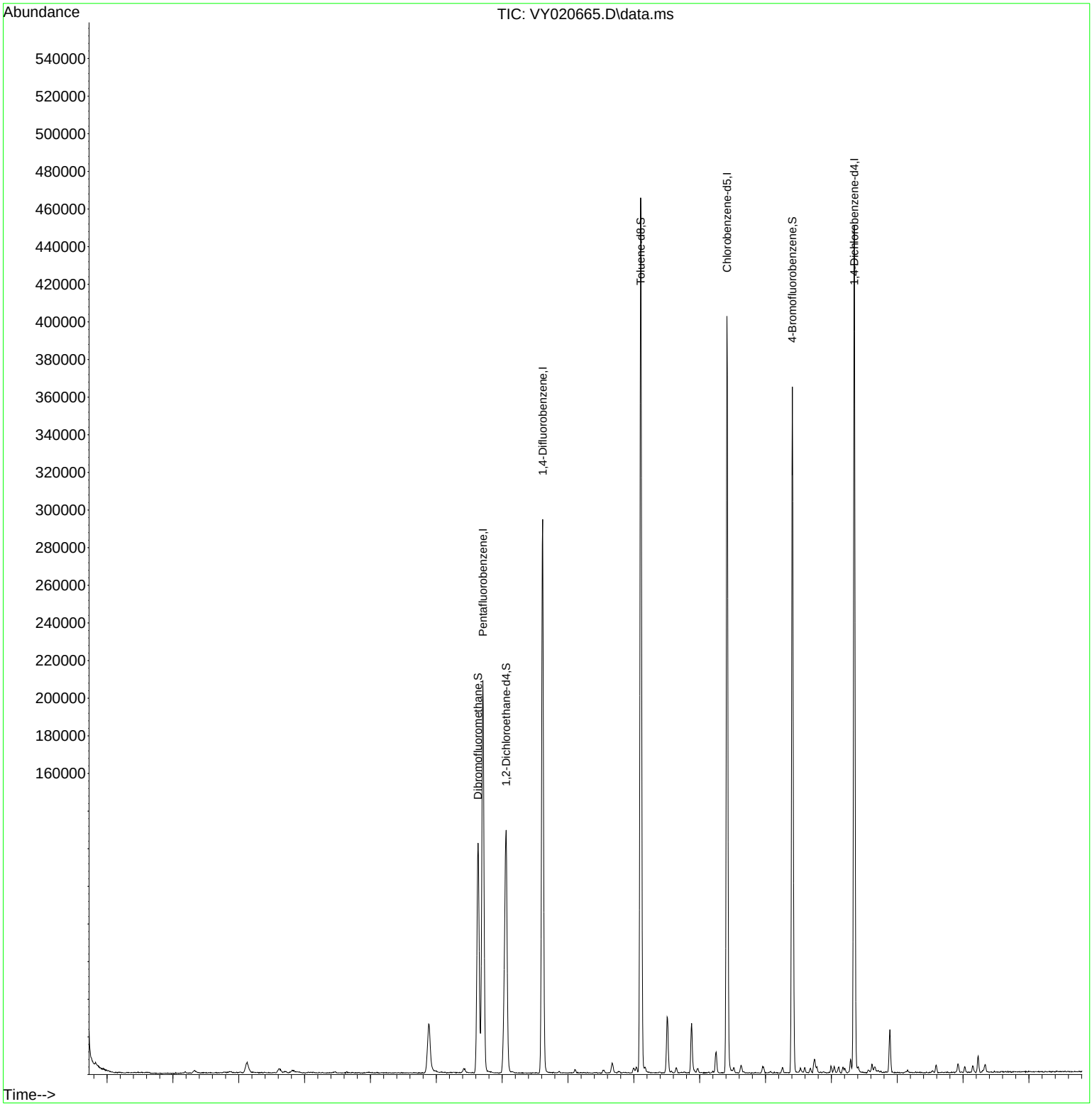
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	159056	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	246351	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	208495	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	109647	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	85448	49.052	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.100%			
35) Dibromofluoromethane	7.634	113	88079	50.730	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.460%			
50) Toluene-d8	10.103	98	302895	49.843	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.680%			
62) 4-Bromofluorobenzene	12.408	95	105889	44.544	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 89.080%			
Target Compounds						Qvalue

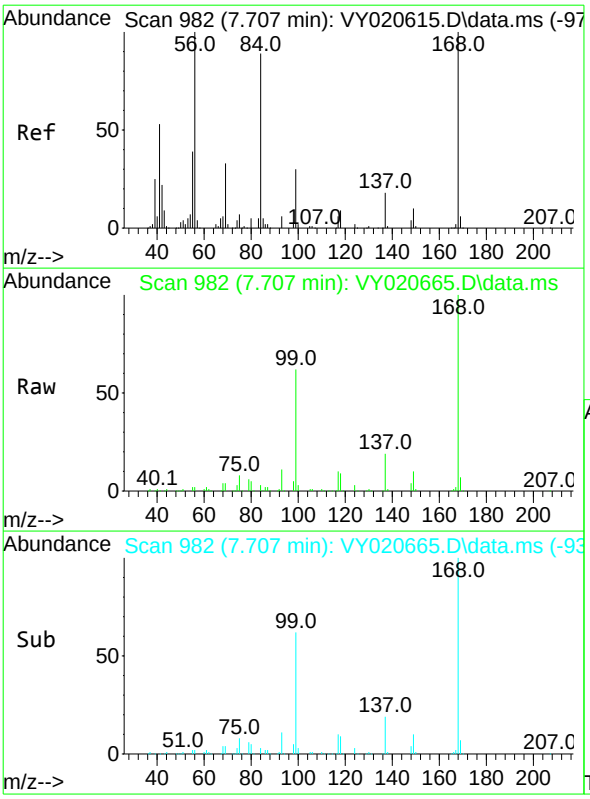
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020665.D
Acq On : 20 Dec 2024 11:24
Operator : SY/MD
Sample : VY1220SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBL01

Quant Time: Dec 20 18:08:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



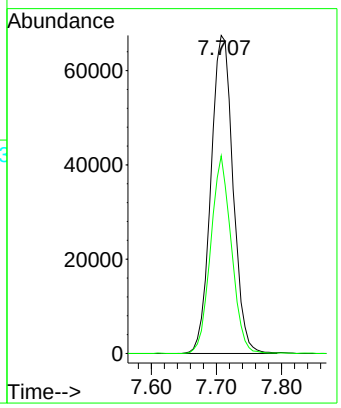


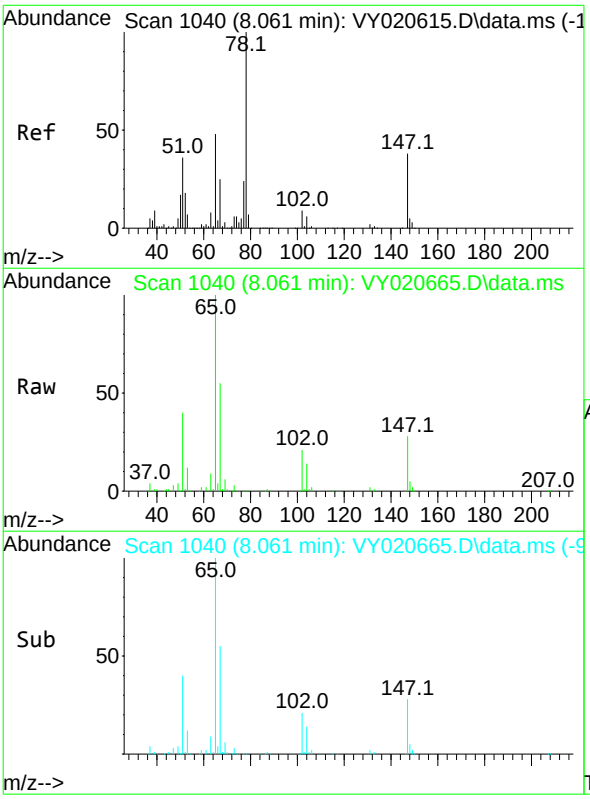
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBL01

Tgt Ion:168 Resp: 159056

Ion	Ratio	Lower	Upper
168	100		
99	62.1	47.0	70.6

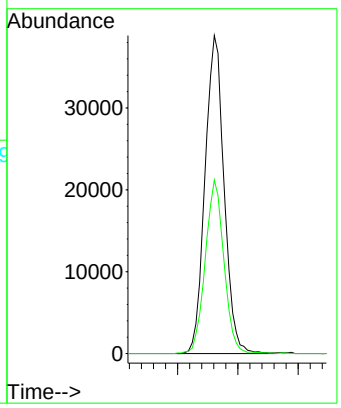


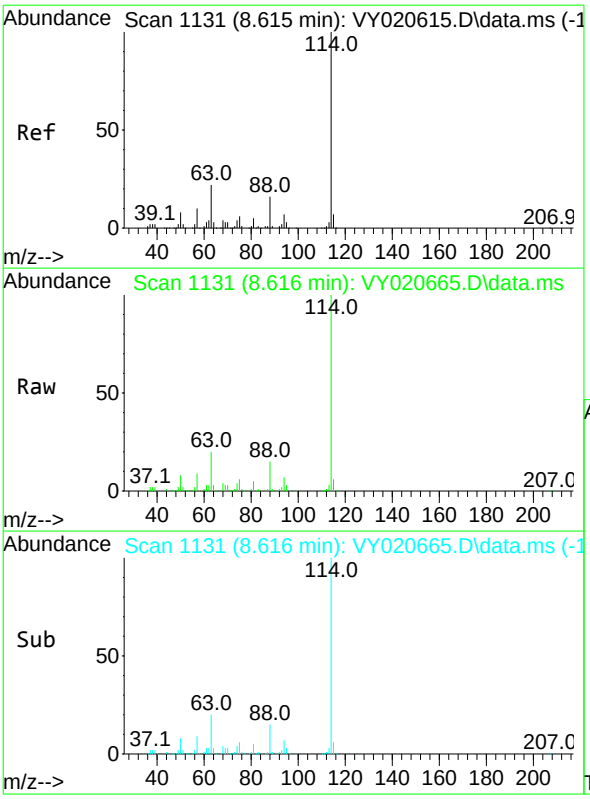


#33
1,2-Dichloroethane-d4
Concen: 49.052 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

Tgt Ion: 65 Resp: 85448

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	108.0



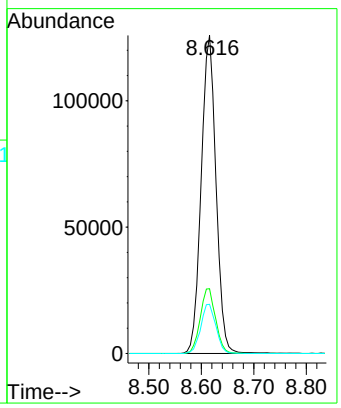


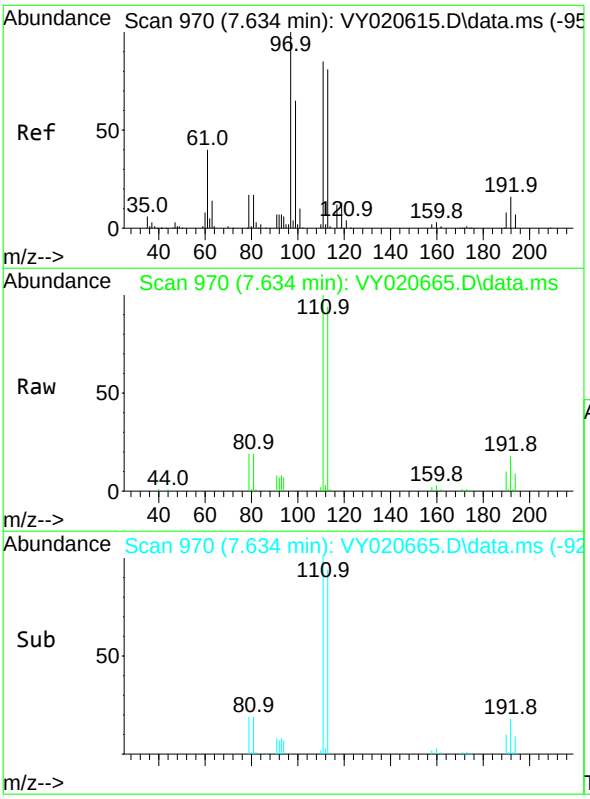
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBL01

Tgt Ion:114 Resp: 246351

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	44.0
88	15.5	0.0	32.8

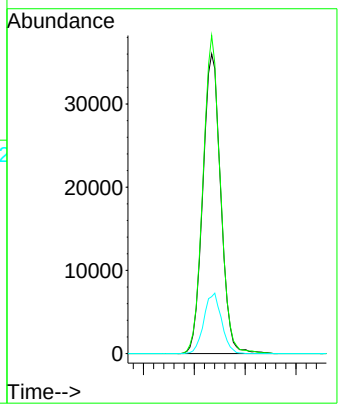


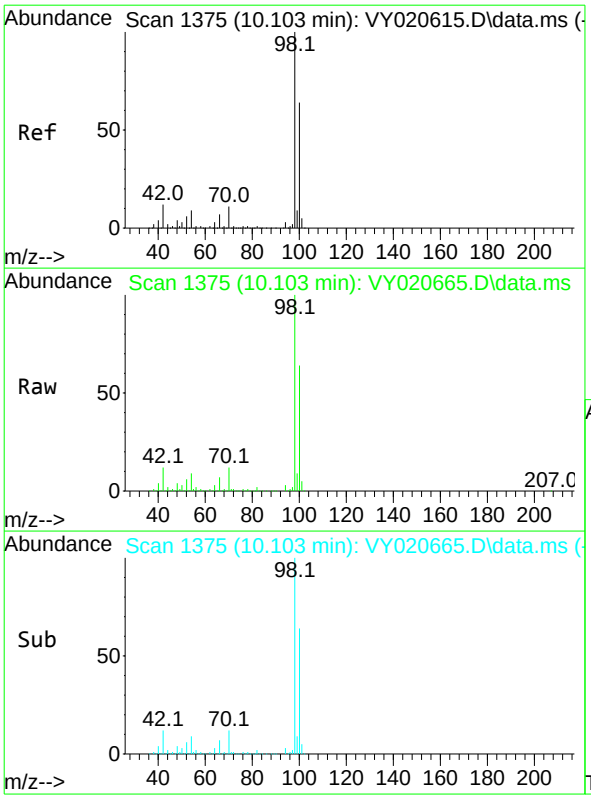


#35
Dibromofluoromethane
Concen: 50.730 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

Tgt Ion:113 Resp: 88079

Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.9	124.3
192	19.9	15.7	23.5



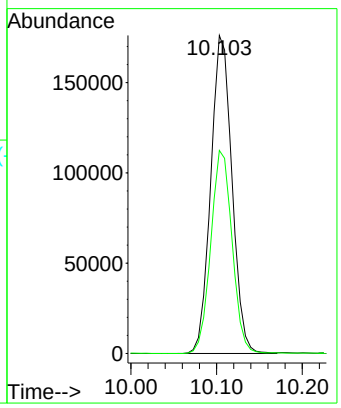


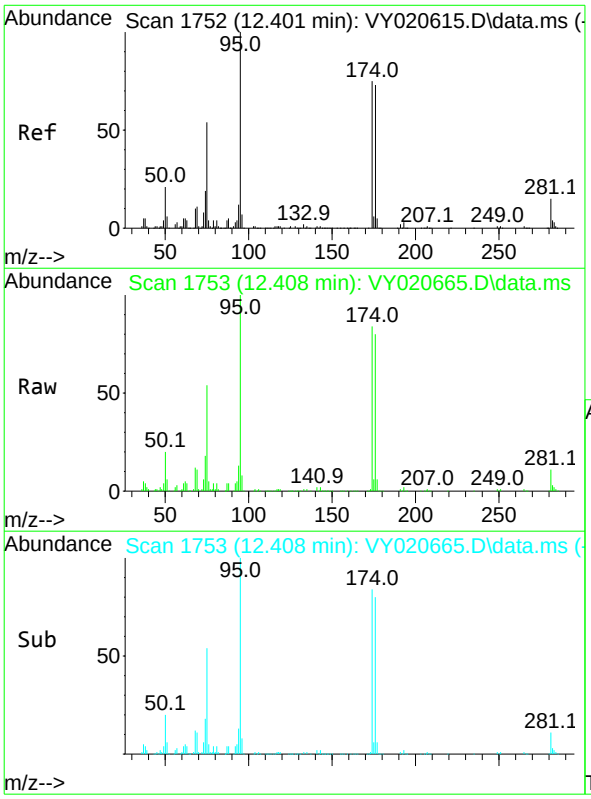
#50
Toluene-d8
Concen: 49.843 ug/l
RT: 10.103 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBL01

Tgt Ion: 98 Resp: 302895

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.1	78.1

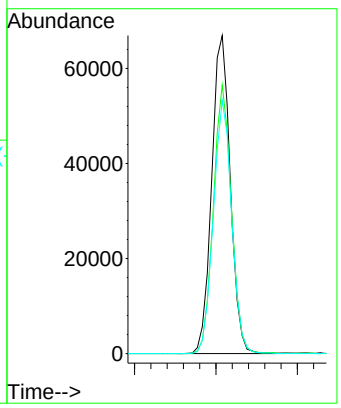


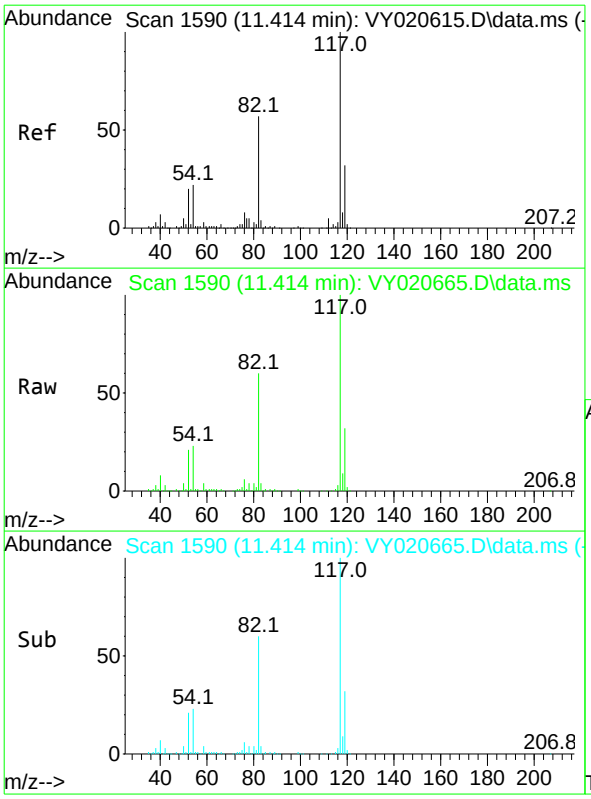


#62
4-Bromofluorobenzene
Concen: 44.544 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

Tgt Ion: 95 Resp: 105889

Ion	Ratio	Lower	Upper
95	100		
174	82.4	0.0	161.8
176	78.6	0.0	156.6



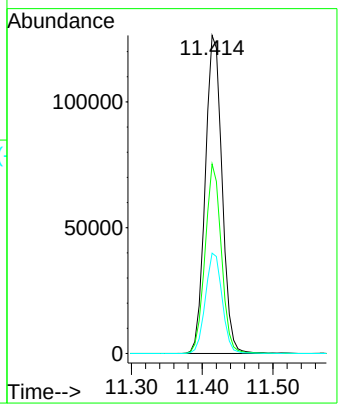


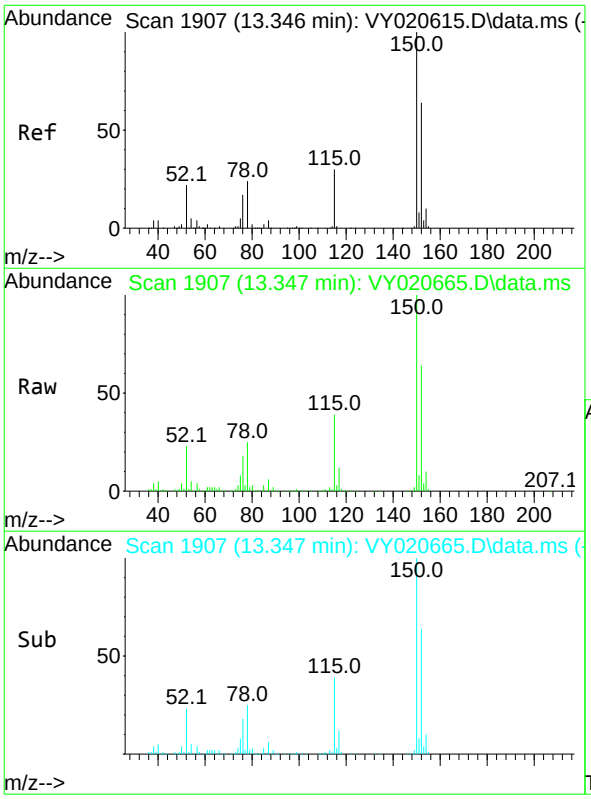
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBL01

Tgt Ion:117 Resp: 208495

Ion	Ratio	Lower	Upper
117	100		
82	59.6	45.8	68.6
119	31.5	25.3	37.9

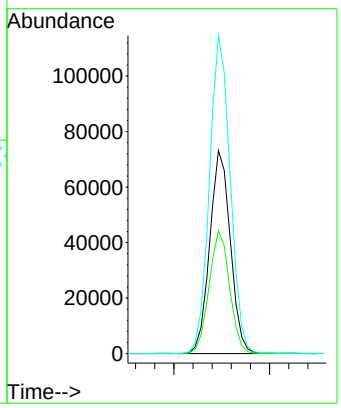




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

Tgt Ion:152 Resp: 109647

Ion	Ratio	Lower	Upper
152	100		
115	60.0	30.2	90.6
150	158.3	0.0	355.4



Sample Results: **VY020665.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020665.D
Acq On : 20 Dec 2024 11:24
Operator : SY/MD
Sample : VY1220SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Title : SW846 8260

Signal : TIC: VY020665.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.129	384	395	405	rBV	5709	18736	2.34%	0.392%
2	6.884	836	847	860	rBV	26192	83421	10.44%	1.746%
3	7.634	960	970	976	rBV2	122221	297782	37.25%	6.233%
4	7.707	976	982	993	rVB	208053	472375	59.09%	9.888%
5	8.061	1026	1040	1051	rBV2	129040	361255	45.19%	7.562%
6	8.616	1122	1131	1144	rBV	294341	581185	72.70%	12.165%
7	9.670	1298	1304	1311	rBV3	5152	10160	1.27%	0.213%
8	10.103	1368	1375	1384	rBV	464581	799421	100.00%	16.733%
9	10.506	1433	1441	1449	rBV	29707	56650	7.09%	1.186%
10	10.877	1496	1502	1513	rBV	26481	47166	5.90%	0.987%
11	11.249	1558	1563	1572	rVB2	11070	19501	2.44%	0.408%
12	11.414	1582	1590	1602	rBV	402164	656634	82.14%	13.745%
13	12.408	1746	1753	1764	rBV2	364555	607939	76.05%	12.725%
14	12.743	1803	1808	1813	rBV4	7191	16005	2.00%	0.335%
15	13.292	1890	1898	1901	rBV4	7125	11289	1.41%	0.236%
16	13.347	1901	1907	1915	rVV	448403	678752	84.91%	14.208%
17	13.889	1989	1996	2001	rBV2	22737	35935	4.50%	0.752%
18	14.919	2157	2165	2171	rBV4	4857	9183	1.15%	0.192%
19	15.230	2210	2216	2221	rBV2	8932	14001	1.75%	0.293%

Sum of corrected areas: 4777390

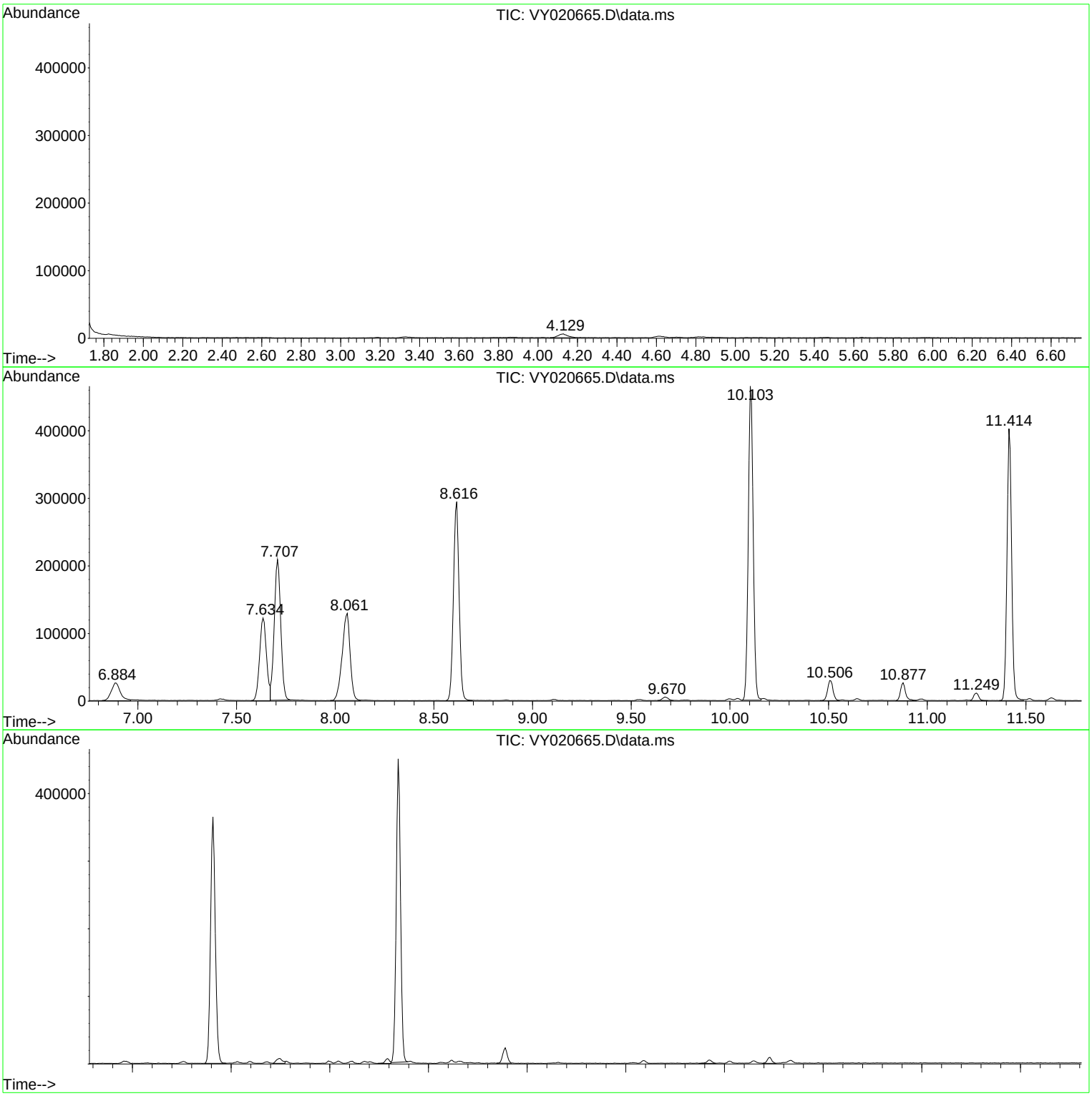
Sample Results: **VY020665.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020665.D
Acq On : 20 Dec 2024 11:24
Operator : SY/MD
Sample : VY1220SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020665.D
Acq On    : 20 Dec 2024  11:24
Operator  : SY/MD
Sample    : VY1220SBL01
Misc      : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial  : 3   Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title  : SW846 8260

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

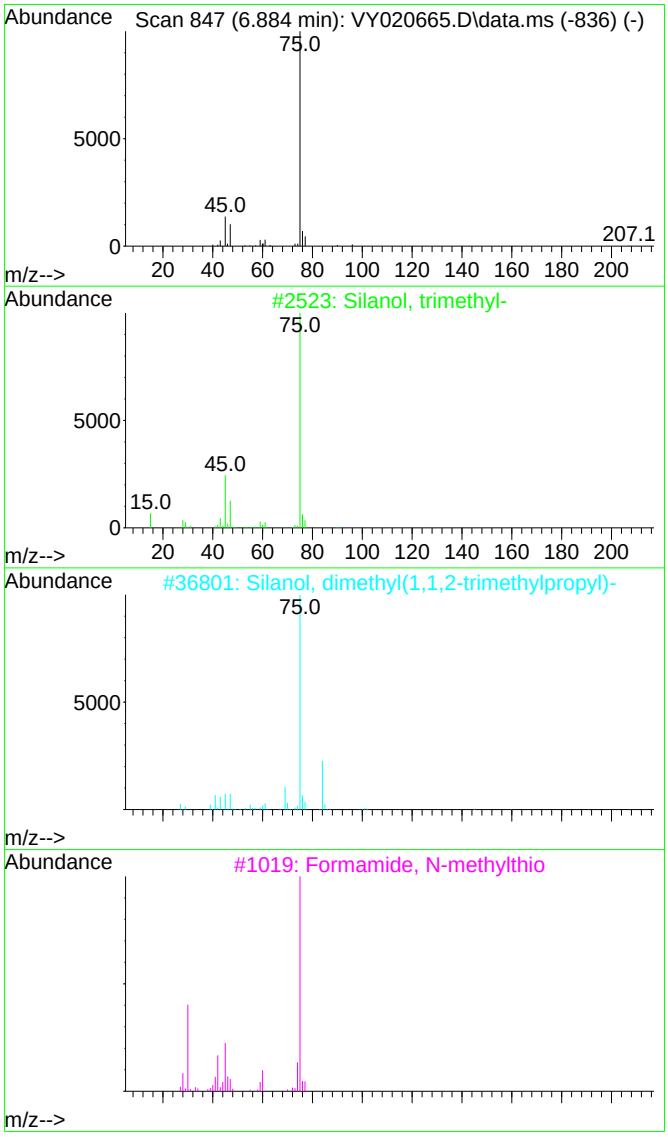
Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBL01

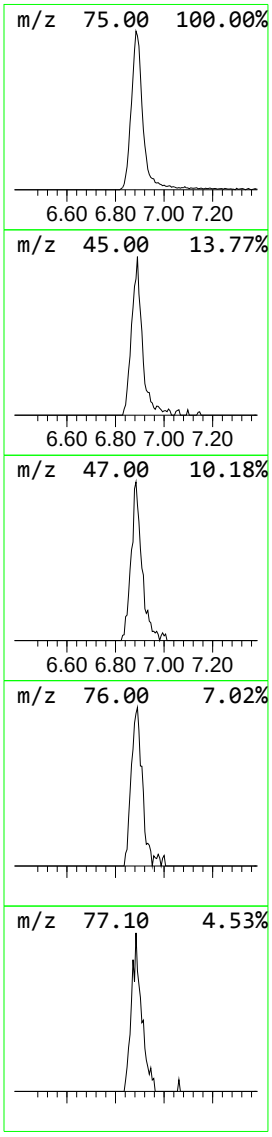
****

Peak Number 1 Silanol, trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.884	8.83 ug/l	83421	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Silanol, trimethyl-	90	C3H10OSi	001066-40-6	83
2	Silanol, dimethyl(1,1,2-trimethy...	160	C8H20OSi	055644-10-5	64
3	Formamide, N-methylthio	75	C2H5NS	018952-41-5	9
4	Ethane, 1,1,2-trimethoxy-	120	C5H12O3	024332-20-5	9
5	2-Propanol, 1,1-dimethoxy-	120	C5H12O3	042919-42-6	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020665.D
Acq On : 20 Dec 2024 11:24
Operator : SY/MD
Sample : VY1220SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Silanol, trimet...	6.884	8.8	ug/l	83421	1	7.707	472375	50.0

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	MTA Rockaway Park	Date Received:	
Client Sample ID:	VY1220SBS01	SDG No.:	P5279
Lab Sample ID:	VY1220SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020666.D	1		12/20/24 13:12	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.024		0.0017	0.0050	mg/Kg
74-87-3	Chloromethane	0.017		0.0012	0.0050	mg/Kg
75-01-4	Vinyl Chloride	0.016		0.00077	0.0050	mg/Kg
74-83-9	Bromomethane	0.015		0.0010	0.0050	mg/Kg
75-00-3	Chloroethane	0.014		0.0010	0.0050	mg/Kg
75-69-4	Trichlorofluoromethane	0.017		0.00091	0.0050	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.016		0.0011	0.0050	mg/Kg
75-35-4	1,1-Dichloroethene	0.016		0.00078	0.0050	mg/Kg
67-64-1	Acetone	0.063		0.0062	0.025	mg/Kg
75-15-0	Carbon Disulfide	0.017		0.0013	0.0050	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.020		0.00067	0.0050	mg/Kg
79-20-9	Methyl Acetate	0.015		0.0018	0.0050	mg/Kg
75-09-2	Methylene Chloride	0.018		0.0034	0.010	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.022		0.00084	0.0050	mg/Kg
75-34-3	1,1-Dichloroethane	0.021		0.00063	0.0050	mg/Kg
110-82-7	Cyclohexane	0.021		0.00069	0.0050	mg/Kg
78-93-3	2-Butanone	0.092		0.0057	0.025	mg/Kg
56-23-5	Carbon Tetrachloride	0.022		0.00087	0.0050	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.021		0.00061	0.0050	mg/Kg
74-97-5	Bromochloromethane	0.017		0.0024	0.0050	mg/Kg
67-66-3	Chloroform	0.019		0.00067	0.0050	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.022		0.00078	0.0050	mg/Kg
108-87-2	Methylcyclohexane	0.022		0.00087	0.0050	mg/Kg
71-43-2	Benzene	0.022		0.00072	0.0050	mg/Kg
107-06-2	1,2-Dichloroethane	0.021		0.00061	0.0050	mg/Kg
79-01-6	Trichloroethene	0.022		0.00075	0.0050	mg/Kg
78-87-5	1,2-Dichloropropane	0.022		0.00066	0.0050	mg/Kg
75-27-4	Bromodichloromethane	0.021		0.00056	0.0050	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.095		0.0044	0.025	mg/Kg
108-88-3	Toluene	0.022		0.00067	0.0050	mg/Kg

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	MTA Rockaway Park	Date Received:	
Client Sample ID:	VY1220SBS01	SDG No.:	P5279
Lab Sample ID:	VY1220SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020666.D	1		12/20/24 13:12	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.032		0.00060	0.0050	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.021		0.00057	0.0050	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.021		0.00084	0.0050	mg/Kg
591-78-6	2-Hexanone	0.099		0.0048	0.025	mg/Kg
124-48-1	Dibromochloromethane	0.021		0.00065	0.0050	mg/Kg
106-93-4	1,2-Dibromoethane	0.021		0.00079	0.0050	mg/Kg
127-18-4	Tetrachloroethene	0.022		0.00089	0.0050	mg/Kg
108-90-7	Chlorobenzene	0.022		0.00074	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.022		0.00062	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.045		0.0014	0.010	mg/Kg
95-47-6	o-Xylene	0.022		0.00070	0.0050	mg/Kg
100-42-5	Styrene	0.022		0.00060	0.0050	mg/Kg
75-25-2	Bromoform	0.021		0.00081	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.022		0.00067	0.0050	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.021		0.0011	0.0050	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.022		0.00074	0.0050	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.022		0.00080	0.0050	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.022		0.00059	0.0050	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.035		0.0016	0.0050	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.021		0.00079	0.0050	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.021		0.00078	0.0050	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.1		50 - 163	86%	SPK: 50
1868-53-7	Dibromofluoromethane	46.1		54 - 147	92%	SPK: 50
2037-26-5	Toluene-d8	46.6		58 - 134	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.2		29 - 146	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	157000	7.713			
540-36-3	1,4-Difluorobenzene	237000	8.615			
3114-55-4	Chlorobenzene-d5	208000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	117000	13.352			

Raw Data: **VY020666.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	MTA Rockaway Park	Date Received:	
Client Sample ID:	VY1220SBS01	SDG No.:	P5279
Lab Sample ID:	VY1220SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020666.D	1		12/20/24 13:12	VY122024

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\VY122024\
Data File : VY020666.D
Acq On : 20 Dec 2024 13:12
Operator : SY/MD
Sample : VY1220SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBS01

Quant Time: Dec 20 18:08:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	157442	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	237485	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	207752	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	116933	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	74322	43.102	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 86.200%			
35) Dibromofluoromethane	7.634	113	77189	46.118	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 92.240%			
50) Toluene-d8	10.109	98	273250	46.643	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 93.280%			
62) 4-Bromofluorobenzene	12.407	95	101336	44.220	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 88.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	46496	23.644	ug/l	99
3) Chloromethane	2.074	50	24398	16.744	ug/l	97
4) Vinyl Chloride	2.208	62	21407	15.785	ug/l	97
5) Bromomethane	2.598	94	12985	14.895	ug/l	97
6) Chloroethane	2.732	64	11282	13.462	ug/l	91
7) Trichlorofluoromethane	3.062	101	47245	16.649	ug/l	98
8) Diethyl Ether	3.458	74	13504	13.569	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.824	101	32580	16.018	ug/l	94
10) Methyl Iodide	4.007	142	38530	17.014	ug/l	98
11) Tert butyl alcohol	4.854	59	18773	80.656	ug/l #	94
12) 1,1-Dichloroethene	3.793	96	31773	16.099	ug/l	94
13) Acrolein	3.659	56	5627	69.014	ug/l	97
14) Allyl chloride	4.385	41	56459	16.326	ug/l	96
15) Acrylonitrile	5.061	53	46605	97.887	ug/l	99
16) Acetone	3.872	43	23242	63.034	ug/l	99
17) Carbon Disulfide	4.110	76	111849	17.411	ug/l	99
18) Methyl Acetate	4.385	43	17854	15.218	ug/l	97
19) Methyl tert-butyl Ether	5.122	73	101223	19.872	ug/l	97
20) Methylene Chloride	4.616	84	38027	17.737	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	47558	21.482	ug/l	97
22) Diisopropyl ether	6.018	45	147396	20.998	ug/l	94
23) Vinyl Acetate	5.963	43	401517	100.993	ug/l	99
24) 1,1-Dichloroethane	5.915	63	87971	21.392	ug/l	99
25) 2-Butanone	6.896	43	58734	91.655	ug/l	98
26) 2,2-Dichloropropane	6.884	77	82041	21.104	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	53177	20.878	ug/l	99
28) Bromochloromethane	7.250	49	23622	17.030	ug/l	100
29) Tetrahydrofuran	7.268	42	38523	95.228	ug/l	99
30) Chloroform	7.427	83	92559	19.148	ug/l	97
31) Cyclohexane	7.701	56	83030	21.116	ug/l	98
32) 1,1,1-Trichloroethane	7.622	97	81959	21.694	ug/l	99
36) 1,1-Dichloropropene	7.835	75	67060	21.973	ug/l #	91
37) Ethyl Acetate	6.988	43	26953	18.775	ug/l	97
38) Carbon Tetrachloride	7.823	117	75634	22.399	ug/l	99
39) Methylcyclohexane	9.109	83	87624	22.028	ug/l	98
40) Benzene	8.079	78	197331	22.058	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020666.D
Acq On : 20 Dec 2024 13:12
Operator : SY/MD
Sample : VY1220SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBS01

Quant Time: Dec 20 18:08:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	14883	19.610	ug/l		93
42) 1,2-Dichloroethane	8.158	62	49803	20.991	ug/l		100
43) Isopropyl Acetate	8.201	43	54326	19.989	ug/l		99
44) Trichloroethene	8.865	130	48185	21.921	ug/l		95
45) 1,2-Dichloropropane	9.140	63	45779	21.896	ug/l		99
46) Dibromomethane	9.231	93	23641	21.396	ug/l		96
47) Bromodichloromethane	9.426	83	63960	21.429	ug/l		99
48) Methyl methacrylate	9.219	41	25905	20.050	ug/l		99
49) 1,4-Dioxane	9.225	88	4698	370.747	ug/l	#	93
51) 4-Methyl-2-Pentanone	9.999	43	135892	94.726	ug/l		99
52) Toluene	10.170	92	122615	22.055	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	89982	32.354	ug/l		94
54) cis-1,3-Dichloropropene	9.859	75	70570	21.413	ug/l		98
55) 1,1,2-Trichloroethane	10.572	97	30195	20.669	ug/l		98
56) Ethyl methacrylate	10.438	69	42515	20.060	ug/l		99
57) 1,3-Dichloropropane	10.713	76	66722	25.621	ug/l	#	42
58) 2-Chloroethyl Vinyl ether	9.713	63	91434	102.533	ug/l	#	71
59) 2-Hexanone	10.761	43	90691	98.464	ug/l		97
60) Dibromochloromethane	10.914	129	41185	21.080	ug/l		100
61) 1,2-Dibromoethane	11.017	107	28561	21.018	ug/l		99
64) Tetrachloroethene	10.646	164	42833	21.919	ug/l		92
65) Chlorobenzene	11.444	112	129331	22.264	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	43055	21.675	ug/l		97
67) Ethyl Benzene	11.517	91	238433	22.248	ug/l		98
68) m/p-Xylenes	11.627	106	178050	44.684	ug/l	#	30
69) o-Xylene	11.956	106	82478	22.185	ug/l		99
70) Styrene	11.969	104	136494	21.974	ug/l		99
71) Bromoform	12.133	173	23329	20.889	ug/l	#	98
73) Isopropylbenzene	12.255	105	221703	21.727	ug/l		99
74) N-amyl acetate	12.072	43	47848	20.036	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	34416	20.778	ug/l		97
76) 1,2,3-Trichloropropane	12.560	75	27051m	22.270	ug/l		
77) Bromobenzene	12.536	156	47306	21.282	ug/l		98
78) n-propylbenzene	12.596	91	270238	21.981	ug/l		99
79) 2-Chlorotoluene	12.682	91	150281	21.727	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	180725	21.827	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	11746	20.297	ug/l		99
82) 4-Chlorotoluene	12.779	91	156322	21.784	ug/l		99
83) tert-Butylbenzene	12.999	119	156978	20.934	ug/l		97
84) 1,2,4-Trimethylbenzene	13.048	105	199323	24.542	ug/l		95
85) sec-Butylbenzene	13.176	105	237258	21.761	ug/l		100
86) p-Isopropyltoluene	13.291	119	198272	22.057	ug/l		99
87) 1,3-Dichlorobenzene	13.291	146	94820	21.610	ug/l		98
88) 1,4-Dichlorobenzene	13.371	146	94077	21.648	ug/l		98
89) n-Butylbenzene	13.621	91	189919	22.293	ug/l		100
90) Hexachloroethane	13.883	117	38301	21.500	ug/l		99
91) 1,2-Dichlorobenzene	13.663	146	81571	21.456	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	9414	35.007	ug/l		57
93) 1,2,4-Trichlorobenzene	14.925	180	49266	21.424	ug/l		98
94) Hexachlorobutadiene	15.029	225	32852	21.854	ug/l		99
95) Naphthalene	15.151	128	80228	20.350	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	41397	21.307	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020666.D
Acq On : 20 Dec 2024 13:12
Operator : SY/MD
Sample : VY1220SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBS01

Quant Time: Dec 20 18:08:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

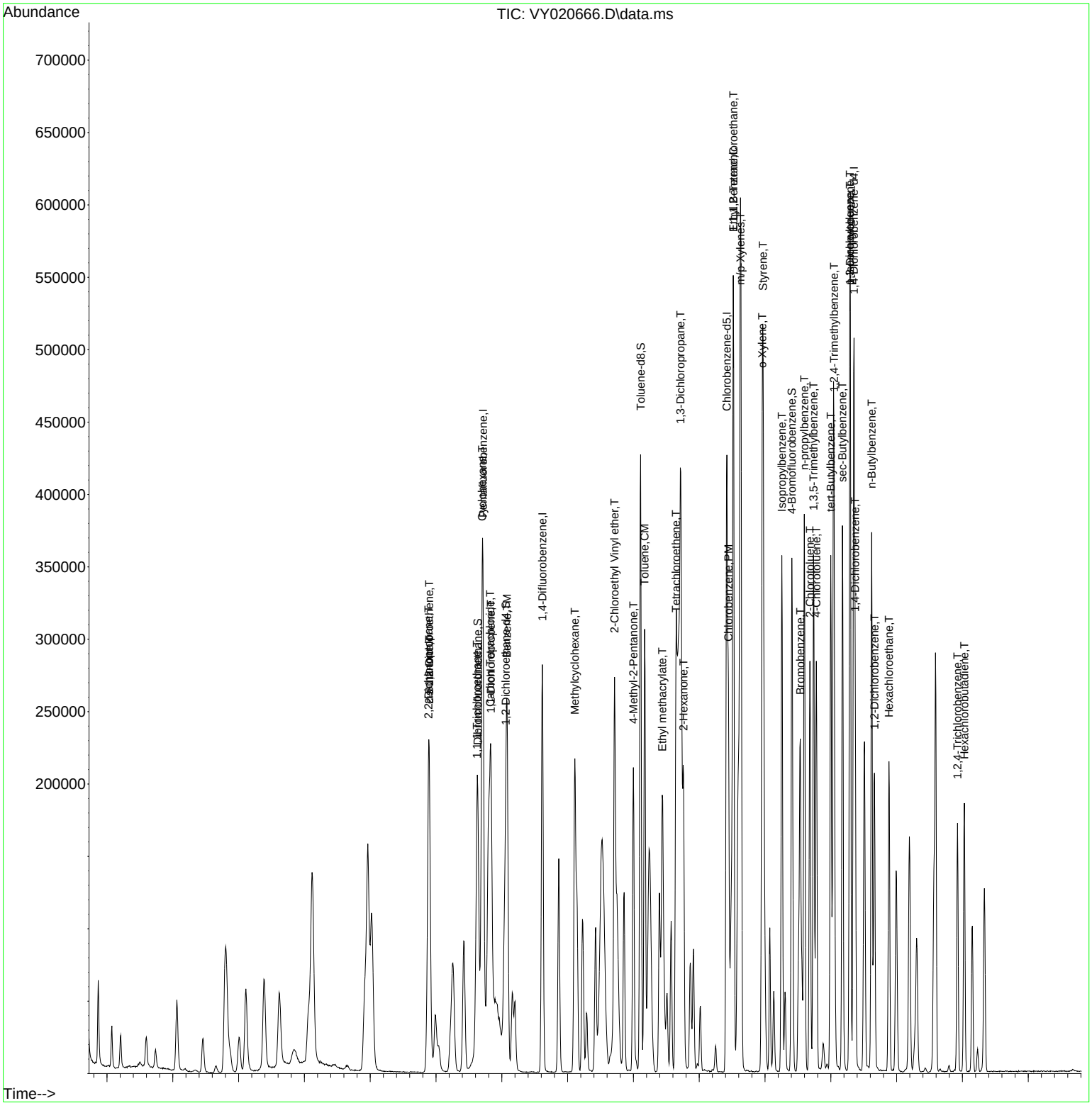
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020666.D
Acq On : 20 Dec 2024 13:12
Operator : SY/MD
Sample : VY1220SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBS01

Quant Time: Dec 20 18:08:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



Raw Data: **VY020667.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	MTA Rockaway Park	Date Received:	
Client Sample ID:	VY1220SBSD01	SDG No.:	P5279
Lab Sample ID:	VY1220SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020667.D	1		12/20/24 13:34	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.024		0.0017	0.0050	mg/Kg
74-87-3	Chloromethane	0.018		0.0012	0.0050	mg/Kg
75-01-4	Vinyl Chloride	0.016		0.00077	0.0050	mg/Kg
74-83-9	Bromomethane	0.015		0.0010	0.0050	mg/Kg
75-00-3	Chloroethane	0.015		0.0010	0.0050	mg/Kg
75-69-4	Trichlorofluoromethane	0.017		0.00091	0.0050	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.014		0.0011	0.0050	mg/Kg
75-35-4	1,1-Dichloroethene	0.014		0.00078	0.0050	mg/Kg
67-64-1	Acetone	0.056		0.0062	0.025	mg/Kg
75-15-0	Carbon Disulfide	0.014		0.0013	0.0050	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.014		0.00067	0.0050	mg/Kg
79-20-9	Methyl Acetate	0.012		0.0018	0.0050	mg/Kg
75-09-2	Methylene Chloride	0.013		0.0034	0.010	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.014		0.00084	0.0050	mg/Kg
75-34-3	1,1-Dichloroethane	0.014		0.00063	0.0050	mg/Kg
110-82-7	Cyclohexane	0.021		0.00069	0.0050	mg/Kg
78-93-3	2-Butanone	0.092		0.0057	0.025	mg/Kg
56-23-5	Carbon Tetrachloride	0.022		0.00087	0.0050	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.019		0.00061	0.0050	mg/Kg
74-97-5	Bromochloromethane	0.016		0.0024	0.0050	mg/Kg
67-66-3	Chloroform	0.018		0.00067	0.0050	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.021		0.00078	0.0050	mg/Kg
108-87-2	Methylcyclohexane	0.021		0.00087	0.0050	mg/Kg
71-43-2	Benzene	0.022		0.00072	0.0050	mg/Kg
107-06-2	1,2-Dichloroethane	0.022		0.00061	0.0050	mg/Kg
79-01-6	Trichloroethene	0.023		0.00075	0.0050	mg/Kg
78-87-5	1,2-Dichloropropane	0.022		0.00066	0.0050	mg/Kg
75-27-4	Bromodichloromethane	0.022		0.00056	0.0050	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.11		0.0044	0.025	mg/Kg
108-88-3	Toluene	0.022		0.00067	0.0050	mg/Kg

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	MTA Rockaway Park	Date Received:	
Client Sample ID:	VY1220SBSD01	SDG No.:	P5279
Lab Sample ID:	VY1220SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020667.D	1		12/20/24 13:34	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.022		0.00060	0.0050	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.022		0.00057	0.0050	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.022		0.00084	0.0050	mg/Kg
591-78-6	2-Hexanone	0.11		0.0048	0.025	mg/Kg
124-48-1	Dibromochloromethane	0.022		0.00065	0.0050	mg/Kg
106-93-4	1,2-Dibromoethane	0.023		0.00079	0.0050	mg/Kg
127-18-4	Tetrachloroethene	0.022		0.00089	0.0050	mg/Kg
108-90-7	Chlorobenzene	0.022		0.00074	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.022		0.00062	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.044		0.0014	0.010	mg/Kg
95-47-6	o-Xylene	0.022		0.00070	0.0050	mg/Kg
100-42-5	Styrene	0.022		0.00060	0.0050	mg/Kg
75-25-2	Bromoform	0.023		0.00081	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.022		0.00067	0.0050	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.022		0.0011	0.0050	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.021		0.00074	0.0050	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.022		0.00080	0.0050	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.022		0.00059	0.0050	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.021		0.0016	0.0050	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.021		0.00079	0.0050	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.021		0.00078	0.0050	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.0		50 - 163	106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		54 - 147	104%	SPK: 50
2037-26-5	Toluene-d8	53.9		58 - 134	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		29 - 146	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	155000	7.707			
540-36-3	1,4-Difluorobenzene	239000	8.616			
3114-55-4	Chlorobenzene-d5	208000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	119000	13.347			

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	MTA Rockaway Park	Date Received:	
Client Sample ID:	VY1220SBSD01	SDG No.:	P5279
Lab Sample ID:	VY1220SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020667.D	1		12/20/24 13:34	VY122024

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\VY122024\
Data File : VY020667.D
Acq On : 20 Dec 2024 13:34
Operator : SY/MD
Sample : VY1220SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBSD01

Quant Time: Dec 20 18:08:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	154597	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	238791	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	207851	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	118816	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	89782	53.026	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.060%			
35) Dibromofluoromethane	7.634	113	87467	51.973	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.940%			
50) Toluene-d8	10.103	98	317644	53.924	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 107.840%			
62) 4-Bromofluorobenzene	12.408	95	118853	51.581	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 103.160%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	46183	23.917	ug/l	100
3) Chloromethane	2.068	50	26136	18.267	ug/l	96
4) Vinyl Chloride	2.202	62	20627	15.490	ug/l	99
5) Bromomethane	2.592	94	12936	15.112	ug/l	98
6) Chloroethane	2.733	64	11953	14.525	ug/l	98
7) Trichlorofluoromethane	3.062	101	46655	16.744	ug/l	96
8) Diethyl Ether	3.458	74	13711	14.031	ug/l	90
9) 1,1,2-Trichlorotrifluo...	3.818	101	28315	14.177	ug/l	98
10) Methyl Iodide	4.007	142	32674	14.694	ug/l	92
11) Tert butyl alcohol	4.854	59	14349	55.423	ug/l	95
12) 1,1-Dichloroethene	3.793	96	27039	13.953	ug/l	87
13) Acrolein	3.659	56	5532	69.097	ug/l	96
14) Allyl chloride	4.385	41	39213	11.548	ug/l	90
15) Acrylonitrile	5.055	53	29353	62.786	ug/l	99
16) Acetone	3.873	43	20534	56.052	ug/l #	88
17) Carbon Disulfide	4.104	76	88129	13.971	ug/l	97
18) Methyl Acetate	4.391	43	13712	11.903	ug/l	92
19) Methyl tert-butyl Ether	5.122	73	71311	14.257	ug/l	93
20) Methylene Chloride	4.616	84	28001	13.301	ug/l	91
21) trans-1,2-Dichloroethene	5.116	96	30978	14.251	ug/l	88
22) Diisopropyl ether	6.025	45	96975	14.069	ug/l	94
23) Vinyl Acetate	5.964	43	267947	68.637	ug/l #	94
24) 1,1-Dichloroethane	5.921	63	56185	13.914	ug/l	97
25) 2-Butanone	6.896	43	57567	91.487	ug/l	95
26) 2,2-Dichloropropane	6.884	77	71251	18.666	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	47563	19.017	ug/l	99
28) Bromochloromethane	7.250	49	21651	15.896	ug/l	96
29) Tetrahydrofuran	7.262	42	39939	100.545	ug/l	98
30) Chloroform	7.421	83	86753	18.008	ug/l	98
31) Cyclohexane	7.701	56	82760	21.435	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	78587	21.184	ug/l	100
36) 1,1-Dichloropropene	7.835	75	67576	22.021	ug/l	100
37) Ethyl Acetate	6.982	43	27819	19.272	ug/l	100
38) Carbon Tetrachloride	7.817	117	75478	22.231	ug/l	94
39) Methylcyclohexane	9.109	83	85612	21.405	ug/l	96
40) Benzene	8.079	78	198978	22.121	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020667.D
Acq On : 20 Dec 2024 13:34
Operator : SY/MD
Sample : VY1220SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBSD01

Quant Time: Dec 20 18:08:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	15690m	20.560	ug/l		
42) 1,2-Dichloroethane	8.158	62	52790	22.128	ug/l		99
43) Isopropyl Acetate	8.195	43	61389	22.464	ug/l	#	88
44) Trichloroethene	8.866	130	49726	22.498	ug/l		96
45) 1,2-Dichloropropane	9.140	63	47049	22.380	ug/l		100
46) Dibromomethane	9.231	93	24740	22.268	ug/l		99
47) Bromodichloromethane	9.420	83	65935	21.970	ug/l		99
48) Methyl methacrylate	9.219	41	28515	21.949	ug/l		99
49) 1,4-Dioxane	9.225	88	5646	443.123	ug/l		94
51) 4-Methyl-2-Pentanone	10.000	43	156324	108.373	ug/l		99
52) Toluene	10.170	92	123673	22.124	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	60417	21.605	ug/l		95
54) cis-1,3-Dichloropropene	9.853	75	72340	21.830	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	32853	22.365	ug/l		99
56) Ethyl methacrylate	10.438	69	46933	22.024	ug/l		97
57) 1,3-Dichloropropane	10.713	76	57877	22.103	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.707	63	89896	100.257	ug/l		99
59) 2-Hexanone	10.762	43	102848	111.052	ug/l		100
60) Dibromochloromethane	10.908	129	43570	22.179	ug/l		100
61) 1,2-Dibromoethane	11.012	107	31084	22.750	ug/l		98
64) Tetrachloroethene	10.646	164	43165	22.078	ug/l		96
65) Chlorobenzene	11.438	112	129936	22.358	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.518	131	45362	22.826	ug/l		99
67) Ethyl Benzene	11.518	91	236674	22.074	ug/l		99
68) m/p-Xylenes	11.627	106	176607	44.301	ug/l		99
69) o-Xylene	11.957	106	82303	22.127	ug/l		98
70) Styrene	11.969	104	138486	22.284	ug/l		98
71) Bromoform	12.133	173	25202	22.556	ug/l	#	99
73) Isopropylbenzene	12.255	105	223291	21.536	ug/l		100
74) N-amyl acetate	12.072	43	54037	22.269	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	37121	22.056	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	28423m	23.028	ug/l		
77) Bromobenzene	12.530	156	48228	21.353	ug/l		96
78) n-propylbenzene	12.597	91	267926	21.448	ug/l		100
79) 2-Chlorotoluene	12.676	91	151653	21.578	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	182355	21.675	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	12691	21.583	ug/l		96
82) 4-Chlorotoluene	12.780	91	158267	21.706	ug/l		99
83) tert-Butylbenzene	12.999	119	162779	21.364	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	180211	21.837	ug/l		99
85) sec-Butylbenzene	13.176	105	238168	21.499	ug/l		100
86) p-Isopropyltoluene	13.292	119	197046	21.573	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	95540	21.429	ug/l		98
88) 1,4-Dichlorobenzene	13.371	146	95023	21.519	ug/l		99
89) n-Butylbenzene	13.621	91	183392	21.186	ug/l		99
90) Hexachloroethane	13.883	117	38132	21.066	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	83132	21.520	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5790	21.190	ug/l		94
93) 1,2,4-Trichlorobenzene	14.926	180	48158	20.610	ug/l		99
94) Hexachlorobutadiene	15.029	225	32056	20.986	ug/l		98
95) Naphthalene	15.145	128	84632	21.127	ug/l		98
96) 1,2,3-Trichlorobenzene	15.334	180	40965	20.750	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020667.D
Acq On : 20 Dec 2024 13:34
Operator : SY/MD
Sample : VY1220SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBSD01

Quant Time: Dec 20 18:08:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

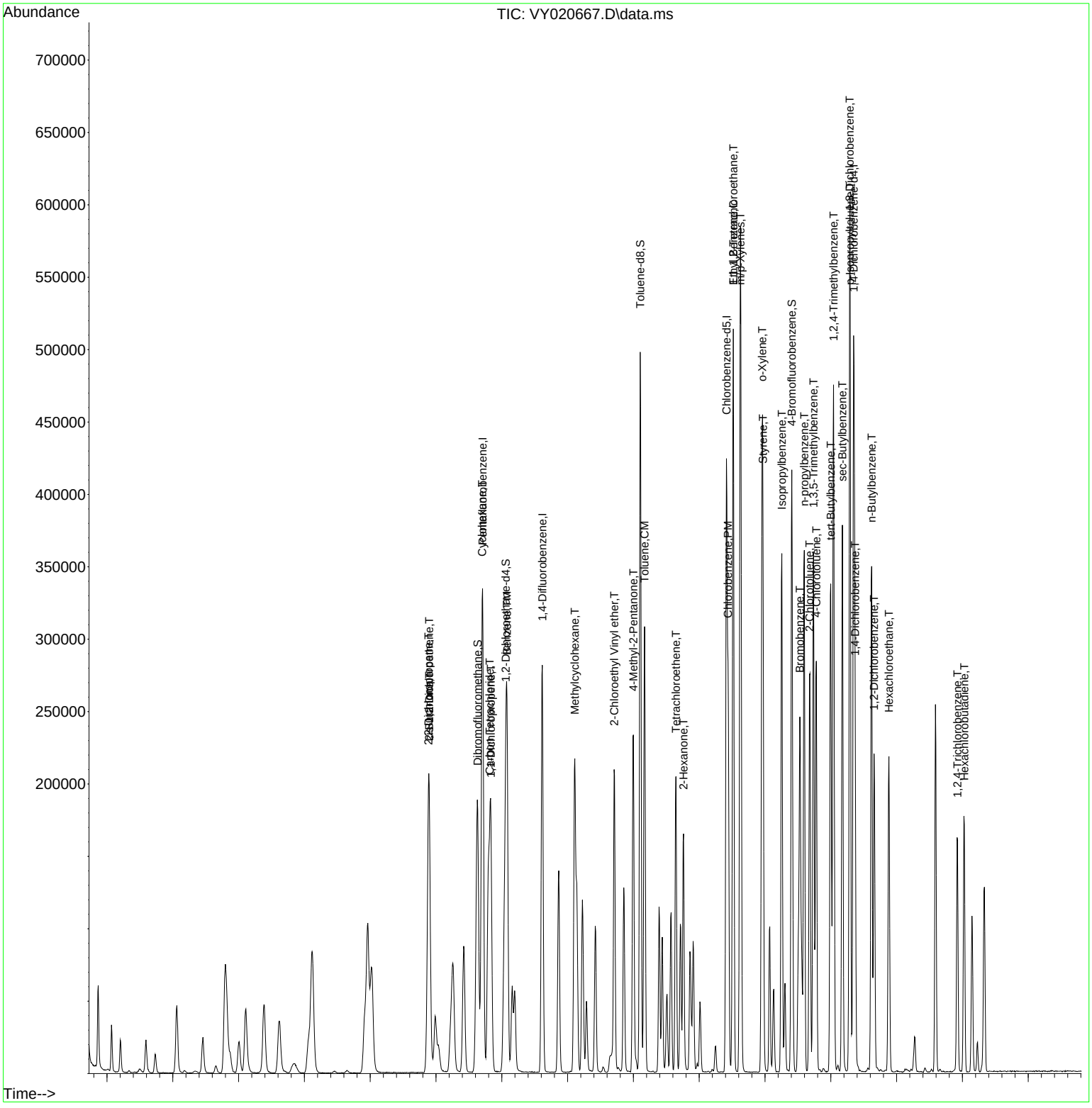
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020667.D
Acq On : 20 Dec 2024 13:34
Operator : SY/MD
Sample : VY1220SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1220SBSD01

Quant Time: Dec 20 18:08:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



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Manual Integration Report

Sequence:	VY121724	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC010	VY020613.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:29 AM	SAM	12/18/2024 8:50:42 AM	Peak Integrated by Software
VSTDICC020	VY020614.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:31 AM	SAM	12/18/2024 8:50:43 AM	Peak Integrated by Software
VSTDICCC050	VY020615.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:34 AM	SAM	12/18/2024 8:50:47 AM	Peak Integrated by Software
VSTDICC100	VY020616.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:37 AM	SAM	12/18/2024 8:50:48 AM	Peak Integrated by Software
VSTDICC150	VY020617.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:38 AM	SAM	12/18/2024 8:50:50 AM	Peak Integrated by Software
VSTDICC005	VY020619.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:41 AM	SAM	12/18/2024 8:50:52 AM	Peak Integrated by Software
VSTDICC005	VY020619.D	Methacrylonitrile	MMDadoda	12/18/2024 8:36:41 AM	SAM	12/18/2024 8:50:52 AM	Peak Integrated by Software
VSTDICV050	VY020620.D	1,2,3-Trichloropropane	Romaben	12/18/2024 8:31:07 AM	MMDadoda	12/18/2024 8:36:43 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY122024	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020664.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:25:18 AM	MMDadoda	12/24/2024 12:28:29 AM	Peak Integrated by Software
VY1220SBS01	VY020666.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:25:19 AM	MMDadoda	12/24/2024 12:28:30 AM	Peak Integrated by Software
VY1220SBSD01	VY020667.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:25:21 AM	MMDadoda	12/24/2024 12:28:32 AM	Peak Integrated by Software
VY1220SBSD01	VY020667.D	Methacrylonitrile	SAM	12/23/2024 7:25:21 AM	MMDadoda	12/24/2024 12:28:32 AM	Peak Integrated by Software
VSTDCCC050	VY020682.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:25:25 AM	MMDadoda	12/24/2024 12:28:35 AM	Peak Integrated by Software

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 # VY121724

Review By	Mahesh Dadoda	Review On	12/18/2024 8:38:34 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:51:04 AM		
SubDirectory	VY121724	HP Acquire Method		HP Processing Method	82y121724s.m

STD. NAME	STD REF.#
Tune/Reschk	VP132182
Initial Calibration Stds	VP132183,VP132184,VP132185,VP132186,VP132187,VP132188
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP132189
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020611.D	17 Dec 2024 09:00	SY/MD	Ok
2	VSTDICC005	VY020612.D	17 Dec 2024 09:38	SY/MD	Ok
3	VSTDICC010	VY020613.D	17 Dec 2024 10:01	SY/MD	Ok,M
4	VSTDICC020	VY020614.D	17 Dec 2024 10:23	SY/MD	Ok,M
5	VSTDICCC050	VY020615.D	17 Dec 2024 10:51	SY/MD	Ok,M
6	VSTDICC100	VY020616.D	17 Dec 2024 11:14	SY/MD	Ok,M
7	VSTDICC150	VY020617.D	17 Dec 2024 11:37	SY/MD	Ok,M
8	VIBLK	VY020618.D	17 Dec 2024 12:24	SY/MD	Ok
9	VSTDICC005	VY020619.D	17 Dec 2024 14:51	SY/MD	Ok,M
10	VSTDICV050	VY020620.D	17 Dec 2024 17:41	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 # VY122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:25:27 AM				
Supervise By	Mahesh Dadoda	Supervise On	12/24/2024 12:28:45 AM				
SubDirectory	VY122024	HP Acquire Method	MSVOA_Y	HP Processing Method	82y12022024s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP132264
Initial Calibration Stds	
CCC	VP132265,VP132266
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	VY020663.D	20 Dec 2024 08:37	SY/MD	Ok
2	VSTDCCC050	VY020664.D	20 Dec 2024 09:09	SY/MD	Ok,M
3	VY1220SBL01	VY020665.D	20 Dec 2024 11:24	SY/MD	Ok
4	VY1220SBS01	VY020666.D	20 Dec 2024 13:12	SY/MD	Ok,M
5	VY1220SBSD01	VY020667.D	20 Dec 2024 13:34	SY/MD	Ok,M
6	P5279-03	VY020668.D	20 Dec 2024 14:10	SY/MD	Ok
7	P5316-01	VY020669.D	20 Dec 2024 14:34	SY/MD	ReRun
8	P5316-02	VY020670.D	20 Dec 2024 14:57	SY/MD	ReRun
9	P5316-03	VY020671.D	20 Dec 2024 15:21	SY/MD	ReRun
10	P5316-04	VY020672.D	20 Dec 2024 15:44	SY/MD	ReRun
11	P5343-03	VY020673.D	20 Dec 2024 16:07	SY/MD	Not Ok
12	P5343-01	VY020674.D	20 Dec 2024 16:31	SY/MD	Not Ok
13	P5316-04RE	VY020675.D	20 Dec 2024 16:52	SY/MD	Confirms
14	P5306-01	VY020676.D	20 Dec 2024 17:16	SY/MD	Not Ok
15	P5306-03	VY020677.D	20 Dec 2024 17:39	SY/MD	Ok
16	P5306-05	VY020678.D	20 Dec 2024 18:02	SY/MD	Ok
17	P5306-13RE	VY020679.D	20 Dec 2024 18:26	SY/MD	Confirms
18	P5306-07	VY020680.D	20 Dec 2024 18:49	SY/MD	Ok
19	P5306-09RE	VY020681.D	20 Dec 2024 19:13	SY/MD	Confirms
20	VSTDCCC050	VY020682.D	20 Dec 2024 19:35	SY/MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY121724

Review By	Mahesh Dadoda	Review On	12/18/2024 8:38:34 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:51:04 AM		
SubDirectory	VY121724	HP Acquire Method		HP Processing Method	82y121724s.m

STD. NAME	STD REF.#
Tune/Reschk	VP132182
Initial Calibration Stds	VP132183,VP132184,VP132185,VP132186,VP132187,VP132188
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP132189
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020611.D	17 Dec 2024 09:00		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY020612.D	17 Dec 2024 09:38		SY/MD	Ok
3	VSTDICC010	VSTDICC010	VY020613.D	17 Dec 2024 10:01	Com #16,30 on LR	SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY020614.D	17 Dec 2024 10:23	Com #11 on QR	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY020615.D	17 Dec 2024 10:51	Com #13 fail for method	SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY020616.D	17 Dec 2024 11:14		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY020617.D	17 Dec 2024 11:37		SY/MD	Ok,M
8	VIBLK	VIBLK	VY020618.D	17 Dec 2024 12:24		SY/MD	Ok
9	VSTDICC005	VSTDICC005	VY020619.D	17 Dec 2024 14:51	%D fail for com #11	SY/MD	Ok,M
10	VSTDICV050	ICVVY121724	VY020620.D	17 Dec 2024 17:41	ICV fail for com #11,16	SY/MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:25:27 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/24/2024 12:28:45 AM		
SubDirectory	VY122024	HP Acquire Method	MSVOA_Y	HP Processing Method	82y12022024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP132264
Initial Calibration Stds	
CCC	VP132265,VP132266
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	VY020663.D	20 Dec 2024 08:37		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020664.D	20 Dec 2024 09:09		SY/MD	Ok,M
3	VY1220SBL01	VY1220SBL01	VY020665.D	20 Dec 2024 11:24		SY/MD	Ok
4	VY1220SBS01	VY1220SBS01	VY020666.D	20 Dec 2024 13:12		SY/MD	Ok,M
5	VY1220SBSD01	VY1220SBSD01	VY020667.D	20 Dec 2024 13:34		SY/MD	Ok,M
6	P5279-03	ROCKAWAY-PARK	VY020668.D	20 Dec 2024 14:10	vial-B	SY/MD	Ok
7	P5316-01	TT-304-IDWSO-202412	VY020669.D	20 Dec 2024 14:34	vial-A Surrogate Fail	SY/MD	ReRun
8	P5316-02	TT-304-IDWSO-202412	VY020670.D	20 Dec 2024 14:57	vial-A Surrogate Fail	SY/MD	ReRun
9	P5316-03	TT-304-IDWSO-202412	VY020671.D	20 Dec 2024 15:21	vial-A Surrogate Fail	SY/MD	ReRun
10	P5316-04	TT-304-IDWSO-202412	VY020672.D	20 Dec 2024 15:44	vial-A Internal Standard and Surrogate Fail	SY/MD	ReRun
11	P5343-03	VNJ281	VY020673.D	20 Dec 2024 16:07	vial-A Not purged	SY/MD	Not Ok
12	P5343-01	VNJ210	VY020674.D	20 Dec 2024 16:31	vial-B Not purged	SY/MD	Not Ok
13	P5316-04RE	TT-304-IDWSO-202412	VY020675.D	20 Dec 2024 16:52	vial-B Surrogate Fail	SY/MD	Confirms
14	P5306-01	OU4-VSL-07-121224	VY020676.D	20 Dec 2024 17:16	vial-B NOT PURGE	SY/MD	Not Ok
15	P5306-03	OU4-VSL-08-121224	VY020677.D	20 Dec 2024 17:39	vial-B Surrogate Fail	SY/MD	Ok
16	P5306-05	OU4-VSL-09-121224	VY020678.D	20 Dec 2024 18:02	vial-B	SY/MD	Ok
17	P5306-13RE	OU4-VSL-13-121224RE	VY020679.D	20 Dec 2024 18:26	vial-B Surrogate Fail;Internal Standard Fail	SY/MD	Confirms

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 # VY122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:25:27 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/24/2024 12:28:45 AM		
SubDirectory	VY122024	HP Acquire Method	MSVOA_Y	HP Processing Method	82y12022024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP132264
Initial Calibration Stds	
CCC	VP132265,VP132266
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P5306-07	OU4-VSL-10-121224	VY020680.D	20 Dec 2024 18:49	vial-B	SY/MD	Ok
19	P5306-09RE	OU4-VSL-11-121224RE	VY020681.D	20 Dec 2024 19:13	vial-B Surrogate Fail;Internal Standard Fail	SY/MD	Confirms
20	VSTDCCC050	VSTDCCC050EC	VY020682.D	20 Dec 2024 19:35		SY/MD	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/16/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 12/13/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:25
Out Date: 12/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133946

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
P5277-01	COMP-1A	1	1.15	8.66	9.81	8.81	88.5	
P5277-02	COMP-2A	2	1.16	8.64	9.8	7.98	78.9	
P5277-03	COMP-3A	3	1.19	8.45	9.64	8.79	89.9	
P5277-04	SB-13	4	1.14	8.61	9.75	8.89	90.0	
P5277-05	SB-14	5	1.15	8.81	9.96	9.14	90.7	
P5277-06	SB-15	6	1.18	8.74	9.92	9.08	90.4	
P5277-07	SB-16	7	1.15	8.81	9.96	8.68	85.5	
P5277-08	SB-17	8	1.12	8.86	9.98	7.98	77.4	
P5277-09	SB-18	9	1.16	8.74	9.9	8.34	82.2	
P5277-10	SB-19	10	1.14	8.83	9.97	8.42	82.4	
P5277-11	SB-20	11	1.19	8.52	9.71	8.13	81.5	
P5277-12	SB-21	12	1.17	8.72	9.89	9.05	90.4	
P5277-13	SB-22	13	1.15	8.80	9.95	9.03	89.5	
P5277-14	SB-23	14	1.14	8.61	9.75	8.51	85.6	
P5277-15	SB-24	15	1.16	8.40	9.56	8.68	89.5	
P5279-01	ROCKAWAY-PARK	16	1.18	8.47	9.65	9.11	93.6	
P5279-03	ROCKAWAY-PARK	17	1.15	8.50	9.65	9.14	94.0	
P5287-01	STONES-A	18	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P5287-02	STONES-A-E2	19	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P5287-03	STONES-B	20	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P5287-04	STONES-B-E2	21	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P5288-05	SVOC-GPC-BLANK	22	1.00	1.00	2.00	2.00	100.0	
P5288-06	PEST-GPC-BLANK	23	1.00	1.00	2.00	2.00	100.0	
P5288-07	PEST-GPC-BLANK-SPIKE	24	1.00	1.00	2.00	2.00	100.0	
P5288-08	PCB-GPC-BLANK	25	1.00	1.00	2.00	2.00	100.0	
P5288-09	PCB-GPC-BLANK-SPIKE	26	1.00	1.00	2.00	2.00	100.0	
P5288-10	SVOC-GPC2-BLANK	27	1.00	1.00	2.00	2.00	100.0	
P5288-11	PEST-GPC2-BLANK	28	1.00	1.00	2.00	2.00	100.0	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/16/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 12/13/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:25
Out Date: 12/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133946

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
P5288-12	PEST-GPC2-BLANK-SPIKE	29	1.00	1.00	2.00	2.00	100.0	
P5288-13	PCB-GPC2-BLANK	30	1.00	1.00	2.00	2.00	100.0	
P5288-14	PCB-GPC2-BLANK-SPIKE	31	1.00	1.00	2.00	2.00	100.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. / QUOTE NO. P5279

COC Number 2041523

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Tully Construction Co.
ADDRESS: 112-01 Beach Channel
CITY Rockaway STATE: N.Y ZIP:
ATTENTION: Dean DeVoe
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY Same STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ 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 SVOC-PAH 2 TCLP Extraction 3 Corrosivity 4 PCB 5 Mercury 6 TPH 7 VOC-TCL VOA-10 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.	Rockaway Park 1	SOL	X		12-13-24	0820	9	X	X	X	X	X	X				PID=0.0
2.	1	1		X	1	0822	4							X			PID=0.0
3.																	
4.																	
5.																	
6.																	
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.	12-13-2024 0900	1.
2.		2.
3.	12-13-2024 12:00	3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT X COOLER TEMP 2.9°C °C
Comments: *PID Meter Calibrated 12.13.2024*
Equal volume of soil used 5:1 composite

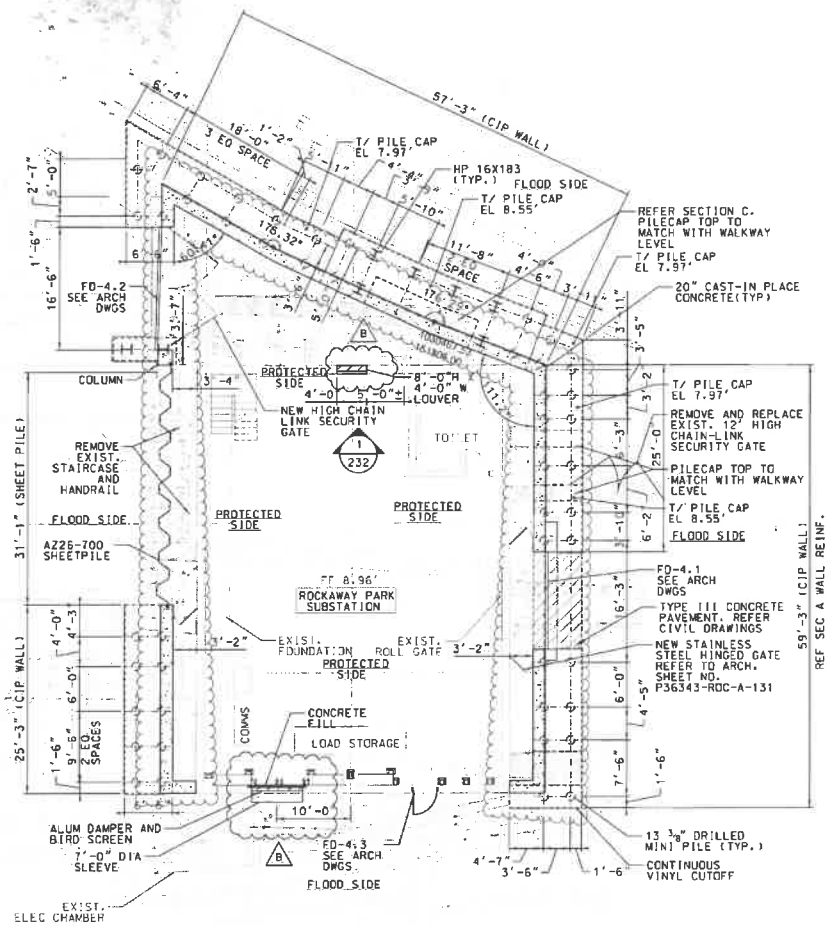
Page 1 of 1

CLIENT: ❑ Hand Delivered ❑ Other _____
CHEMTECH: ❑ Picked Up ❑ Field Sampling

Shipment Complete ❑ YES ❑ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Rockaway Park



NOTE:

1. REFER TO P36343-A-G-701 FOR FLOOD DEVICE OPENING SCHEDULE.

FLOOD WALL LAYOUT PLAN

SCALE: 1/8"=1'-0"

1 (131|13)

REVISION	DESCRIPTION	DATE	APPROVED
B	ADDED NEW LOUVER	11/06/2024	CJ
A	REVISED PILE AND INTERNAL HARDENING LAYOUT	09/26/2024	CJ

REVISIONS

MTA CONSTRUCTION & DEVELOPMENT

CONTRACT P-36343
FLOOD MITIGATION AT TWENTY-SIX (26) SUBSTATIONS IN THE BOROUGH OF BROOKLYN, MANHATTAN AND QUEENS

ROCKAWAY PARK SUBSTATION
FLOOD WALL PLAN

STATE OF NEW YORK — PROFESSIONAL ENGINEER — 11-06-2024

DRAWN BY	R. NUTHAN		DATE: 11/06/2024
DESIGNED BY	K.UDAY		DISCIPLINE: STRUCTURE
CHECKED BY	DINAKAR KN		DRAWING NO. P36343-ROC-CS-131
APPROVED BY	C.JEDRICH, PE		REVISION

$DESIGN$FILE$EXPANDED$SPEC$ PRINT AS OF $DATE$OF$PLOTTING$ USER$NAME

CHEMTECH
Environmental Laboratory
www.chemtech.net | EMAIL: PM@chemtech.net

Project Name: Rockaway Park Queens
Service Order #:
Work Order #:
Labor WBS #:
Facility/Site:
Site Address: 112-01 beach Channel, Rockaway Queen, N.Y

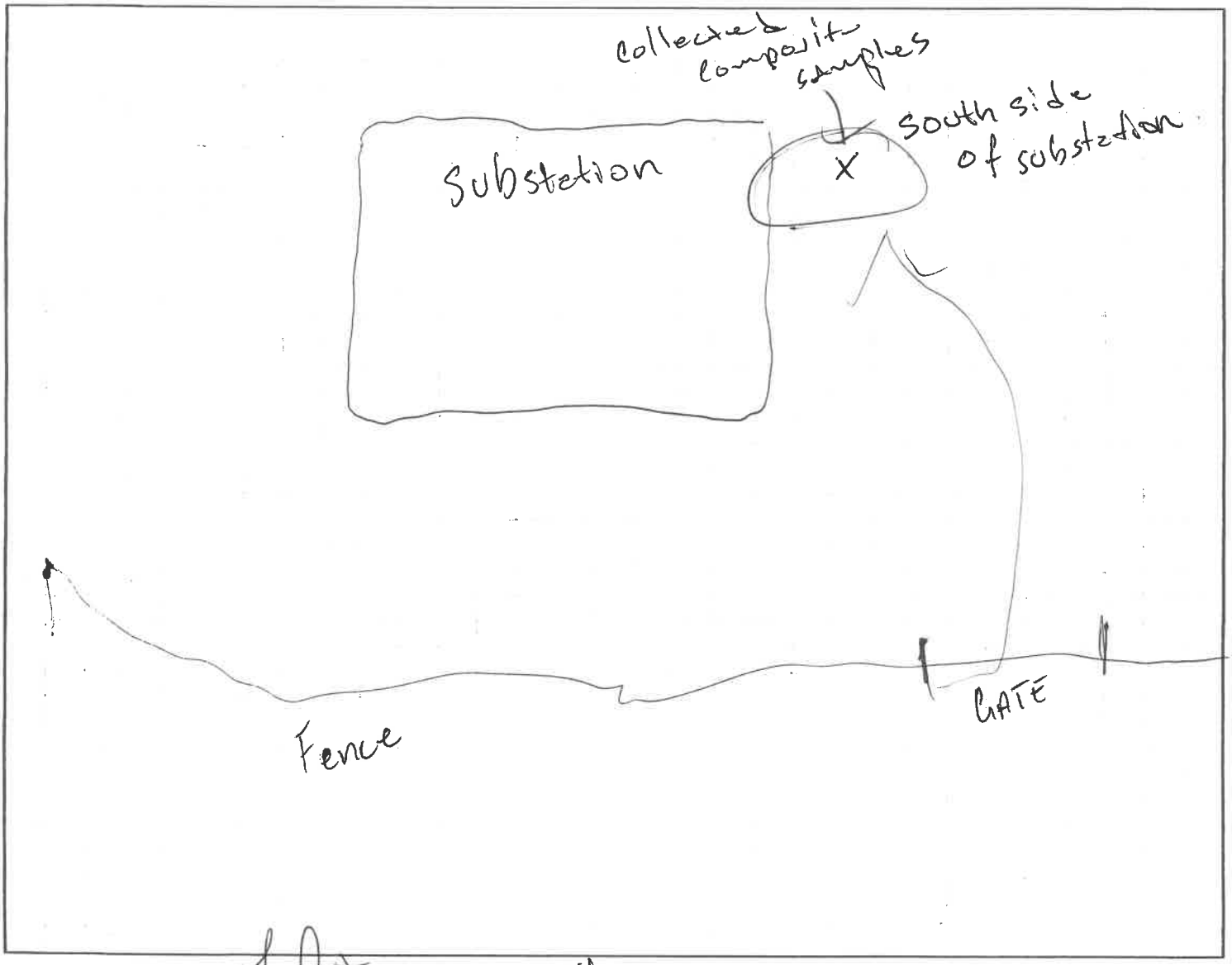
Chemtech Order ID:
Sampler Name: Lawrence Czita
Client Project Coordinator & Phone:
Page #: 1 of 1
Date: 12.13.2024
Arrive Time: 0730
Depart Time: 0900

Waste Stream (circle one): drum / roll-off / soil pile / in-situ / linear construction / frac-tank / soil cover
Sample Matrices (circle all that apply): Water / Solid / NAPL / Concrete / Wipe

Collection Depths: Dimensions/CY:
Temp (range): °C PID Readings (range): 0.0 PPM Odor: Y / N Color: Y / N
Sample Description: Dark GRAY soil.
Field Observations: Sampled, Rockaway Park.

Grid/Area Composite Map:

QA Control # A3041134



Sampler Signature: 12.13.2024
Client Signature:

Supervisor Review/Date:
Date/Time Arrived at Lab:

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 : P5279 TULL02
Client Name : Tully Construction Co., Inc.
Client Contact : Dean Devoe
Invoice Name : Tully Construction Co., Inc.
Invoice Contact : Dean Devoe

Order Date : 12/13/2024 12:03:00 PM
Project Name : Rockaway Park
Receive DateTime : 12/13/2024 12:00:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 1
EDD Type : Excel NY 375
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5279-03	ROCKAWAY-PARK	Solid	12/13/2024	08:22					
					VOC-TCLVOA-10		8260D		5 Bus. Days

Relinguished By : [signature]
Date / Time : 12-13-2024 12:18

Received By : [signature]
Date / Time : 12-13-24 12:18

Storage Area : VOA Refridgerator Room