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

Order ID : P4258

Project ID : Perth Amboy

Client : Roman E&G Corp

Lab Sample Number	Client Sample Number
P4258-01	Chamberlain Ave
P4258-02	Chamberlain Ave
P4258-03	Chamberlain Ave
P4258-04	Chamberlain Ave

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: 10/9/2024

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 #: **P4258**

	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: **NILESH PRAJAPATI** **Date:** **10/09/2024**

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LAB CHRONICLE

OrderID:	P4258	**OrderDate:**	10/1/2024 1:21:00 PM
Client:	Roman E&G Corp	**Project:**	Perth Amboy
Contact:	Mark Mattheiss	**Location:**	H11,H51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4258-03	**Chamberlain Ave**	**SOIL**			**10/01/24**			**10/01/24**
			VOC-TCLVOA-10	8260D			10/02/24	
P4258-03RE	**Chamberlain AveRE**	**SOIL**			**10/01/24**			**10/01/24**
			VOC-TCLVOA-10	8260D			10/03/24	
P4258-04	**Chamberlain Ave**	**TCLP**			**10/01/24**			**10/01/24**
			TCLP VOA	8260D			10/03/24	

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Hit Summary Sheet
SW-846

SDG No.: P4258

Client: Roman E&G Corp

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**Chamberlain Ave**								
P4258-03	Chamberlain Ave	SOIL	Benzene, 1,2,3,5-tetramethyl-	*	9.60	J	0	0	ug/Kg
P4258-03	Chamberlain Ave	SOIL	1-Phenyl-1-butene	*	12.6	J	0	0	ug/Kg
P4258-03	Chamberlain Ave	SOIL	Benzene, 2-ethyl-1,3-dimethyl-	*	16.8	J	0	0	ug/Kg
P4258-03	Chamberlain Ave	SOIL	n-propylbenzene	*	4.50	J	0.73	5.70	ug/Kg
P4258-03	Chamberlain Ave	SOIL	n-Butylbenzene	*	2.60	J	0.72	5.70	ug/Kg
			Total Tics :		46.1				
			Total Concentration:		46.1				

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: P4258

Client: Roman E&G Corp

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4258-03	Chamberlain Ave	1,2-Dichloroethane-d4	50	52.8	106	50	163
		Dibromofluoromethane	50	53.2	106	54	147
		Toluene-d8	50	53.5	107	58	134
		4-Bromofluorobenzene	50	37.7	75	29	146
P4258-03RE	Chamberlain AveRE	1,2-Dichloroethane-d4	50	62.2	124	50	163
		Dibromofluoromethane	50	57.0	114	54	147
		Toluene-d8	50	54.2	108	58	134
		4-Bromofluorobenzene	50	40.5	81	29	146
VY1002SBL01	VY1002SBL01	1,2-Dichloroethane-d4	50	63.4	127	50	163
		Dibromofluoromethane	50	55.5	111	54	147
		Toluene-d8	50	56.5	113	58	134
		4-Bromofluorobenzene	50	46.1	92	29	146
VY1002SBS02	VY1002SBS02	1,2-Dichloroethane-d4	50	59.7	119	50	163
		Dibromofluoromethane	50	54.0	108	54	147
		Toluene-d8	50	52.1	104	58	134
		4-Bromofluorobenzene	50	49.7	99	29	146
VY1002SBSD02	VY1002SBSD02	1,2-Dichloroethane-d4	50	55.1	110	50	163
		Dibromofluoromethane	50	50.5	101	54	147
		Toluene-d8	50	49.1	98	58	134
		4-Bromofluorobenzene	50	46.1	92	29	146
VY1003SBL01	VY1003SBL01	1,2-Dichloroethane-d4	50	61.3	123	50	163
		Dibromofluoromethane	50	55.4	111	54	147
		Toluene-d8	50	56.9	114	58	134
		4-Bromofluorobenzene	50	46.3	93	29	146
VY1003SBS01	VY1003SBS01	1,2-Dichloroethane-d4	50	60.2	120	50	163
		Dibromofluoromethane	50	56.9	114	54	147
		Toluene-d8	50	55.6	111	58	134
		4-Bromofluorobenzene	50	52.5	105	29	146

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4258

Client: Roman E&G Corp

Analytical Method: SW8260D **Datafile :** VY019769.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1002SBS02	Dichlorodifluoromethane	20	20.4	ug/Kg	102			64	136	
	Chloromethane	20	19.3	ug/Kg	97			70	130	
	Vinyl chloride	20	20.6	ug/Kg	103			72	129	
	Bromomethane	20	23.1	ug/Kg	116			58	141	
	Chloroethane	20	21.6	ug/Kg	108			69	130	
	Trichlorofluoromethane	20	21.4	ug/Kg	107			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.8	ug/Kg	109			81	123	
	1,1-Dichloroethene	20	18.9	ug/Kg	95			79	121	
	Acetone	100	130	ug/Kg	130			60	131	
	Carbon disulfide	20	12.8	ug/Kg	64			45	154	
	Methyl tert-butyl Ether	20	23.1	ug/Kg	116			77	129	
	Methyl Acetate	20	22.4	ug/Kg	112			69	149	
	Methylene Chloride	20	22.7	ug/Kg	114			56	174	
	trans-1,2-Dichloroethene	20	18.7	ug/Kg	94			80	123	
	1,1-Dichloroethane	20	22.4	ug/Kg	112			82	123	
	Cyclohexane	20	17.7	ug/Kg	89			76	122	
	2-Butanone	100	120	ug/Kg	120			69	131	
	Carbon Tetrachloride	20	20.3	ug/Kg	102			76	129	
	cis-1,2-Dichloroethene	20	21.6	ug/Kg	108			82	123	
	Bromochloromethane	20	21.5	ug/Kg	108			80	127	
	Chloroform	20	23.8	ug/Kg	119			82	125	
	1,1,1-Trichloroethane	20	22.5	ug/Kg	113			80	126	
	Methylcyclohexane	20	17.4	ug/Kg	87			77	123	
	Benzene	20	20.3	ug/Kg	102			84	121	
	1,2-Dichloroethane	20	23.0	ug/Kg	115			81	126	
	Trichloroethene	20	19.5	ug/Kg	98			83	122	
	1,2-Dichloropropane	20	22.3	ug/Kg	112			83	122	
	Bromodichloromethane	20	22.7	ug/Kg	114			82	123	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			70	135	
	Toluene	20	20.5	ug/Kg	103			83	122	
	t-1,3-Dichloropropene	20	20.7	ug/Kg	104			78	124	
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103			81	122	
	1,1,2-Trichloroethane	20	23.0	ug/Kg	115			82	125	
	2-Hexanone	100	110	ug/Kg	110			66	138	
	Dibromochloromethane	20	21.7	ug/Kg	109			79	125	
	1,2-Dibromoethane	20	21.6	ug/Kg	108			80	125	
	Tetrachloroethene	20	20.7	ug/Kg	104			83	125	
	Chlorobenzene	20	21.5	ug/Kg	108			84	122	
	Ethyl Benzene	20	21.1	ug/Kg	106			82	124	
	m/p-Xylenes	40	40.9	ug/Kg	102			83	124	
	o-Xylene	20	20.8	ug/Kg	104			83	123	
	Styrene	20	21.0	ug/Kg	105			82	124	
	Bromoform	20	21.0	ug/Kg	105			75	127	
	Isopropylbenzene	20	21.2	ug/Kg	106			82	124	
	1,1,2,2-Tetrachloroethane	20	23.0	ug/Kg	115			77	127	
	1,3-Dichlorobenzene	20	21.3	ug/Kg	106			83	122	
	1,4-Dichlorobenzene	20	21.3	ug/Kg	106			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.: P4258

Client: Roman E&G Corp

Analytical Method: SW8260D **Datafile :** VY019769.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1002SBS02	1,2-Dibromo-3-Chloropropane	20	21.4	ug/Kg	107			66	134	
	1,2,4-Trichlorobenzene	20	19.0	ug/Kg	95			78	127	
	1,2,3-Trichlorobenzene	20	18.9	ug/Kg	95			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4258

Client: Roman E&G Corp

Analytical Method: SW8260D **Datafile :** VY019770.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1002SBSD02	Dichlorodifluoromethane	20	21.0	ug/Kg	105	3		64	136	20
	Chloromethane	20	18.6	ug/Kg	93	4		70	130	20
	Vinyl chloride	20	20.3	ug/Kg	102	1		72	129	20
	Bromomethane	20	22.8	ug/Kg	114	2		58	141	20
	Chloroethane	20	23.3	ug/Kg	117	8		69	130	20
	Trichlorofluoromethane	20	21.6	ug/Kg	108	1		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	21.8	ug/Kg	109	0		81	123	20
	1,1-Dichloroethene	20	19.1	ug/Kg	96	1		79	121	20
	Acetone	100	120	ug/Kg	120	8		60	131	20
	Carbon disulfide	20	12.8	ug/Kg	64	0		45	154	20
	Methyl tert-butyl Ether	20	22.9	ug/Kg	115	1		77	129	20
	Methyl Acetate	20	22.0	ug/Kg	110	2		69	149	20
	Methylene Chloride	20	24.3	ug/Kg	121	6		56	174	20
	trans-1,2-Dichloroethene	20	19.1	ug/Kg	96	2		80	123	20
	1,1-Dichloroethane	20	22.8	ug/Kg	114	2		82	123	20
	Cyclohexane	20	18.1	ug/Kg	91	2		76	122	20
	2-Butanone	100	120	ug/Kg	120	0		69	131	20
	Carbon Tetrachloride	20	20.4	ug/Kg	102	0		76	129	20
	cis-1,2-Dichloroethene	20	21.9	ug/Kg	110	2		82	123	20
	Bromochloromethane	20	23.1	ug/Kg	116	7		80	127	20
	Chloroform	20	24.1	ug/Kg	121	2		82	125	20
	1,1,1-Trichloroethane	20	22.5	ug/Kg	113	0		80	126	20
	Methylcyclohexane	20	17.6	ug/Kg	88	1		77	123	20
	Benzene	20	20.6	ug/Kg	103	1		84	121	20
	1,2-Dichloroethane	20	22.6	ug/Kg	113	2		81	126	20
	Trichloroethene	20	20.0	ug/Kg	100	2		83	122	20
	1,2-Dichloropropane	20	22.2	ug/Kg	111	1		83	122	20
	Bromodichloromethane	20	22.9	ug/Kg	115	1		82	123	20
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	0		70	135	20
	Toluene	20	20.9	ug/Kg	104	1		83	122	20
	t-1,3-Dichloropropene	20	20.5	ug/Kg	103	1		78	124	20
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103	0		81	122	20
	1,1,2-Trichloroethane	20	22.9	ug/Kg	115	0		82	125	20
	2-Hexanone	100	110	ug/Kg	110	0		66	138	20
	Dibromochloromethane	20	22.1	ug/Kg	111	2		79	125	20
	1,2-Dibromoethane	20	21.1	ug/Kg	106	2		80	125	20
	Tetrachloroethene	20	20.6	ug/Kg	103	1		83	125	20
	Chlorobenzene	20	22.1	ug/Kg	111	3		84	122	20
	Ethyl Benzene	20	21.9	ug/Kg	110	4		82	124	20
	m/p-Xylenes	40	42.4	ug/Kg	106	4		83	124	20
	o-Xylene	20	21.4	ug/Kg	107	3		83	123	20
	Styrene	20	21.6	ug/Kg	108	3		82	124	20
	Bromoform	20	21.1	ug/Kg	106	1		75	127	20
	Isopropylbenzene	20	22.7	ug/Kg	114	7		82	124	20
	1,1,2,2-Tetrachloroethane	20	23.9	ug/Kg	119	3		77	127	20
	1,3-Dichlorobenzene	20	22.9	ug/Kg	115	8		83	122	20
	1,4-Dichlorobenzene	20	22.9	ug/Kg	115	8		84	121	20
	1,2-Dichlorobenzene	20	22.8	ug/Kg	114	5		83	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4258

Client: Roman E&G Corp

Analytical Method: SW8260D **Datafile :** VY019770.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1002SBSD02	1,2-Dibromo-3-Chloropropane	20	22.6	ug/Kg	113	5		66	134	20
	1,2,4-Trichlorobenzene	20	20.1	ug/Kg	101	6		78	127	20
	1,2,3-Trichlorobenzene	20	19.7	ug/Kg	99	4		70	137	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4258

Client: Roman E&G Corp

Analytical Method: SW8260D **Datafile :** VY019778.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1003SBS01	Dichlorodifluoromethane	20	20.3	ug/Kg	102			64	136	
	Chloromethane	20	17.2	ug/Kg	86			70	130	
	Vinyl chloride	20	18.8	ug/Kg	94			72	129	
	Bromomethane	20	21.7	ug/Kg	109			58	141	
	Chloroethane	20	21.0	ug/Kg	105			69	130	
	Trichlorofluoromethane	20	20.6	ug/Kg	103			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.4	ug/Kg	107			81	123	
	1,1-Dichloroethene	20	18.5	ug/Kg	93			79	121	
	Acetone	100	130	ug/Kg	130			60	131	
	Carbon disulfide	20	11.8	ug/Kg	59			45	154	
	Methyl tert-butyl Ether	20	21.1	ug/Kg	106			77	129	
	Methyl Acetate	20	18.0	ug/Kg	90			69	149	
	Methylene Chloride	20	19.9	ug/Kg	100			56	174	
	trans-1,2-Dichloroethene	20	18.4	ug/Kg	92			80	123	
	1,1-Dichloroethane	20	21.8	ug/Kg	109			82	123	
	Cyclohexane	20	17.4	ug/Kg	87			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	19.9	ug/Kg	100			76	129	
	cis-1,2-Dichloroethene	20	20.9	ug/Kg	104			82	123	
	Bromochloromethane	20	21.1	ug/Kg	106			80	127	
	Chloroform	20	22.8	ug/Kg	114			82	125	
	1,1,1-Trichloroethane	20	22.0	ug/Kg	110			80	126	
	Methylcyclohexane	20	16.9	ug/Kg	85			77	123	
	Benzene	20	20.1	ug/Kg	101			84	121	
	1,2-Dichloroethane	20	21.5	ug/Kg	108			81	126	
	Trichloroethene	20	19.3	ug/Kg	97			83	122	
	1,2-Dichloropropane	20	21.2	ug/Kg	106			83	122	
	Bromodichloromethane	20	21.8	ug/Kg	109			82	123	
	4-Methyl-2-Pentanone	100	96.9	ug/Kg	97			70	135	
	Toluene	20	19.7	ug/Kg	99			83	122	
	t-1,3-Dichloropropene	20	19.7	ug/Kg	99			78	124	
	cis-1,3-Dichloropropene	20	19.5	ug/Kg	98			81	122	
	1,1,2-Trichloroethane	20	21.4	ug/Kg	107			82	125	
	2-Hexanone	100	98.3	ug/Kg	98			66	138	
	Dibromochloromethane	20	20.6	ug/Kg	103			79	125	
	1,2-Dibromoethane	20	19.2	ug/Kg	96			80	125	
	Tetrachloroethene	20	18.8	ug/Kg	94			83	125	
	Chlorobenzene	20	21.1	ug/Kg	106			84	122	
	Ethyl Benzene	20	20.7	ug/Kg	104			82	124	
	m/p-Xylenes	40	40.4	ug/Kg	101			83	124	
	o-Xylene	20	20.6	ug/Kg	103			83	123	
	Styrene	20	20.4	ug/Kg	102			82	124	
	Bromoform	20	19.1	ug/Kg	96			75	127	
	Isopropylbenzene	20	22.1	ug/Kg	111			82	124	
	1,1,2,2-Tetrachloroethane	20	21.5	ug/Kg	108			77	127	
	1,3-Dichlorobenzene	20	21.7	ug/Kg	109			83	122	
	1,4-Dichlorobenzene	20	21.7	ug/Kg	109			84	121	
	1,2-Dichlorobenzene	20	21.6	ug/Kg	108			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4258

Client: Roman E&G Corp

Analytical Method: SW8260D **Datafile :** VY019778.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1003SBS01	1,2-Dibromo-3-Chloropropane	20	19.8	ug/Kg	99			66	134	
	1,2,4-Trichlorobenzene	20	19.3	ug/Kg	97			78	127	
	1,2,3-Trichlorobenzene	20	18.8	ug/Kg	94			70	137	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1002SBL01

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019757.D Lab Sample ID: VY1002SBL01

Date Analyzed: 10/02/2024 Time Analyzed: 10:13

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
Chamberlain Ave	P4258-03	VY019765.D	10/02/2024
VY1002SBS02	VY1002SBS02	VY019769.D	10/02/2024
VY1002SBSD02	VY1002SBSD02	VY019770.D	10/02/2024

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1003SBL01

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019777.D Lab Sample ID: VY1003SBL01

Date Analyzed: 10/03/2024 Time Analyzed: 10:17

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

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1003SBS01	VY1003SBS01	VY019778.D	10/03/2024
Chamberlain AveRE	P4258-03RE	VY019780.D	10/03/2024

COMMENTS:

Raw Data: **VY019453.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019453.D BFB Injection Date: 09/09/2024

Instrument ID: MSVOA_Y BFB Injection Time: 09:20

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	18.8
75	30.0 - 60.0% of mass 95	50.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	73.9
175	5.0 - 9.0% of mass 174	5.5 (7.5) 1
176	95.0 - 101.0% of mass 174	70.3 (95.1) 1
177	5.0 - 9.0% of mass 176	4.6 (6.6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY019454.D	09/09/2024	09:52
VSTDICC010	VSTDICC010	VY019455.D	09/09/2024	10:15
VSTDICC020	VSTDICC020	VY019456.D	09/09/2024	10:44
VSTDICCC050	VSTDICCC050	VY019457.D	09/09/2024	11:07
VSTDICC100	VSTDICC100	VY019458.D	09/09/2024	11:29
VSTDICC150	VSTDICC150	VY019459.D	09/09/2024	11:53

Raw Data: **VY019755.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019755.D BFB Injection Date: 10/02/2024

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	20.9
75	30.0 - 60.0% of mass 95	54.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	70.4
175	5.0 - 9.0% of mass 174	5.1 (7.3) 1
176	95.0 - 101.0% of mass 174	67.3 (95.6) 1
177	5.0 - 9.0% of mass 176	4.5 (6.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY019756.D	10/02/2024	09:39
VY1002SBL01	VY1002SBL01	VY019757.D	10/02/2024	10:13
Chamberlain Ave	P4258-03	VY019765.D	10/02/2024	15:23
VY1002SBS02	VY1002SBS02	VY019769.D	10/02/2024	16:56
VY1002SBSD02	VY1002SBSD02	VY019770.D	10/02/2024	17:19

Raw Data: **VY019775.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019775.D BFB Injection Date: 10/03/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:34

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	20.4
75	30.0 - 60.0% of mass 95	53.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	74.5
175	5.0 - 9.0% of mass 174	6 (8) 1
176	95.0 - 101.0% of mass 174	72.5 (97.3) 1
177	5.0 - 9.0% of mass 176	4.8 (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	VY019776.D	10/03/2024	09:44
VY1003SBL01	VY1003SBL01	VY019777.D	10/03/2024	10:17
VY1003SBS01	VY1003SBS01	VY019778.D	10/03/2024	11:01
Chamberlain AveRE	P4258-03RE	VY019780.D	10/03/2024	12:10

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019756.D Date Analyzed: 10/02/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:39

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	313908	7.71	532797	8.62	452211	11.41
UPPER LIMIT	627816	8.207	1065590	9.116	904422	11.914
LOWER LIMIT	156954	7.207	266399	8.116	226106	10.914
EPA SAMPLE NO.						
Chamberlain Ave	61958 *	7.71	102249 *	8.62	74657 *	11.41
VY1002SBL01	286214	7.71	551968	8.62	482661	11.41
VY1002SBS02	265847	7.71	469139	8.62	394802	11.41
VY1002SBSD02	278113	7.71	490887	8.62	408200	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: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019756.D Date Analyzed: 10/02/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:39

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

	IS4 AREA #		RT #				
12 HOUR STD	212843		13.346				
UPPER LIMIT	425686		13.846				
LOWER LIMIT	106422		12.846				
EPA SAMPLE NO.							
Chamberlain Ave	23916	*	13.34				
VY1002SBL01	169673		13.35				
VY1002SBS02	189008		13.34				
VY1002SBSD02	189650		13.34				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019776.D Date Analyzed: 10/03/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:44

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	277386	7.71	478984	8.62	402421	11.41
UPPER LIMIT	554772	8.213	957968	9.116	804842	11.914
LOWER LIMIT	138693	7.213	239492	8.116	201211	10.914
EPA SAMPLE NO.						
Chamberlain AveRE	82774 *	7.71	150343 *	8.62	119106 *	11.41
VY1003SBL01	267988	7.71	512122	8.62	450147	11.41
VY1003SBS01	265491	7.71	467884	8.62	391562	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: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019776.D Date Analyzed: 10/03/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:44

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

	IS4 AREA #		RT #				
12 HOUR STD	192886		13.346				
UPPER LIMIT	385772		13.846				
LOWER LIMIT	96443		12.846				
EPA SAMPLE NO.							
Chamberlain AveRE	38457	*	13.35				
VY1003SBL01	160873		13.35				
VY1003SBS01	181129		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: **VY019765.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	10/01/24
Project:	Perth Amboy	Date Received:	10/01/24
Client Sample ID:	Chamberlain Ave	SDG No.:	P4258
Lab Sample ID:	P4258-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86
Sample Wt/Vol:	5.08 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
VY019765.D	1		10/02/24 15:23	VY100224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.90	U	1.90	5.70	ug/Kg
74-87-3	Chloromethane	1.30	U	1.30	5.70	ug/Kg
75-01-4	Vinyl Chloride	0.88	U	0.88	5.70	ug/Kg
74-83-9	Bromomethane	1.20	U	1.20	5.70	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	5.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	5.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.89	U	0.89	5.70	ug/Kg
67-64-1	Acetone	7.10	U	7.10	28.6	ug/Kg
75-15-0	Carbon Disulfide	1.50	U	1.50	5.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.77	U	0.77	5.70	ug/Kg
79-20-9	Methyl Acetate	2.10	U	2.10	5.70	ug/Kg
75-09-2	Methylene Chloride	3.90	U	3.90	11.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.96	U	0.96	5.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.72	U	0.72	5.70	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.70	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	28.6	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.70	U	0.70	5.70	ug/Kg
74-97-5	Bromochloromethane	2.80	U	2.80	5.70	ug/Kg
67-66-3	Chloroform	0.77	U	0.77	5.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.89	U	0.89	5.70	ug/Kg
108-87-2	Methylcyclohexane	1.00	U	1.00	5.70	ug/Kg
71-43-2	Benzene	0.82	U	0.82	5.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.70	U	0.70	5.70	ug/Kg
79-01-6	Trichloroethene	0.86	U	0.86	5.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.76	U	0.76	5.70	ug/Kg
75-27-4	Bromodichloromethane	0.64	U	0.64	5.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.00	U	5.00	28.6	ug/Kg
108-88-3	Toluene	0.77	U	0.77	5.70	ug/Kg

Raw Data: **VY019765.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	10/01/24
Project:	Perth Amboy	Date Received:	10/01/24
Client Sample ID:	Chamberlain Ave	SDG No.:	P4258
Lab Sample ID:	P4258-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86
Sample Wt/Vol:	5.08 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
VY019765.D	1		10/02/24 15:23	VY100224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.69	U	0.69	5.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.65	U	0.65	5.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.96	U	0.96	5.70	ug/Kg
591-78-6	2-Hexanone	5.50	U	5.50	28.6	ug/Kg
124-48-1	Dibromochloromethane	0.74	U	0.74	5.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.90	U	0.90	5.70	ug/Kg
127-18-4	Tetrachloroethene	1.00	U	1.00	5.70	ug/Kg
108-90-7	Chlorobenzene	0.85	U	0.85	5.70	ug/Kg
100-41-4	Ethyl Benzene	0.71	U	0.71	5.70	ug/Kg
179601-23-1	m/p-Xylenes	1.50	U	1.50	11.4	ug/Kg
95-47-6	o-Xylene	0.80	U	0.80	5.70	ug/Kg
100-42-5	Styrene	0.69	U	0.69	5.70	ug/Kg
75-25-2	Bromoform	0.93	U	0.93	5.70	ug/Kg
98-82-8	Isopropylbenzene	0.77	U	0.77	5.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.85	U	0.85	5.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.92	U	0.92	5.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.68	U	0.68	5.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.90	U	0.90	5.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.89	U	0.89	5.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.8		50 - 163	106%	SPK: 50
1868-53-7	Dibromofluoromethane	53.2		54 - 147	106%	SPK: 50
2037-26-5	Toluene-d8	53.5		58 - 134	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.7		29 - 146	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	62000	7.707			
540-36-3	1,4-Difluorobenzene	102000	8.616			
3114-55-4	Chlorobenzene-d5	74700	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	23900	13.34			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY019765.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	10/01/24
Project:	Perth Amboy	Date Received:	10/01/24
Client Sample ID:	Chamberlain Ave	SDG No.:	P4258
Lab Sample ID:	P4258-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86
Sample Wt/Vol:	5.08 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
VY019765.D	1		10/02/24 15:23	VY100224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
103-65-1	n-propylbenzene	4.50	J		12.6	ug/Kg
104-51-8	n-Butylbenzene	2.60	J		13.6	ug/Kg
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	16.8	J		13.9	ug/Kg
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	9.60	J		14.2	ug/Kg
000824-90-8	1-Phenyl-1-butene	12.6	J		14.6	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\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain Ave

Quant Time: Oct 03 02:03:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

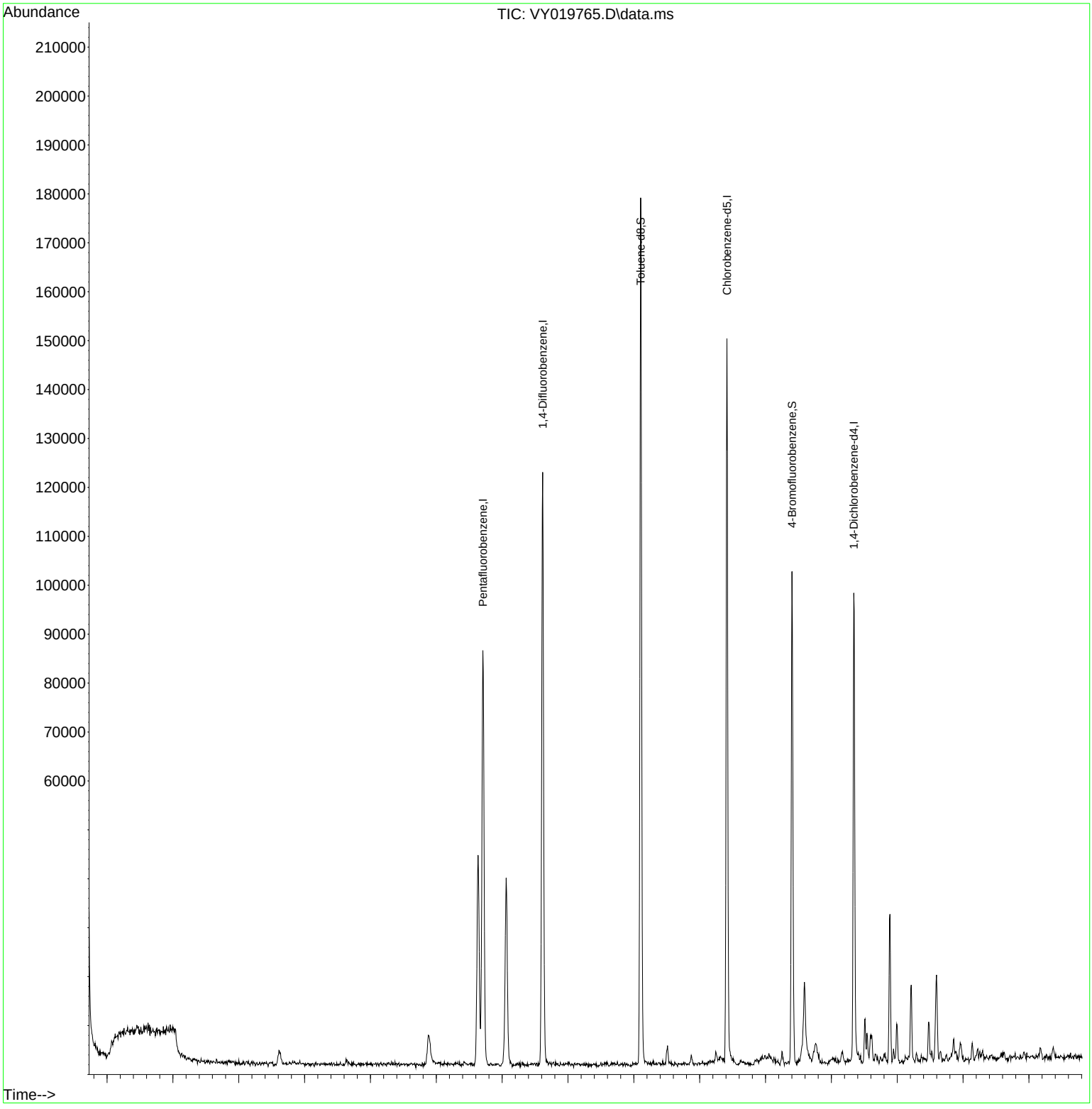
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	61958	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	102249	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	74657	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	23916	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	30298	52.810	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.620%			
35) Dibromofluoromethane	7.628	113	30858	53.228	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.460%			
50) Toluene-d8	10.103	98	114643	53.464	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 106.920%			
62) 4-Bromofluorobenzene	12.402	95	31049	37.658	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 75.320%			
Target Compounds						Qvalue
78) n-propylbenzene	12.591	91	8096	3.937	ug/l	98
89) n-Butylbenzene	13.615	91	3258	2.245	ug/l #	83
95) Naphthalene	15.139	128	2469	3.038	ug/l #	92

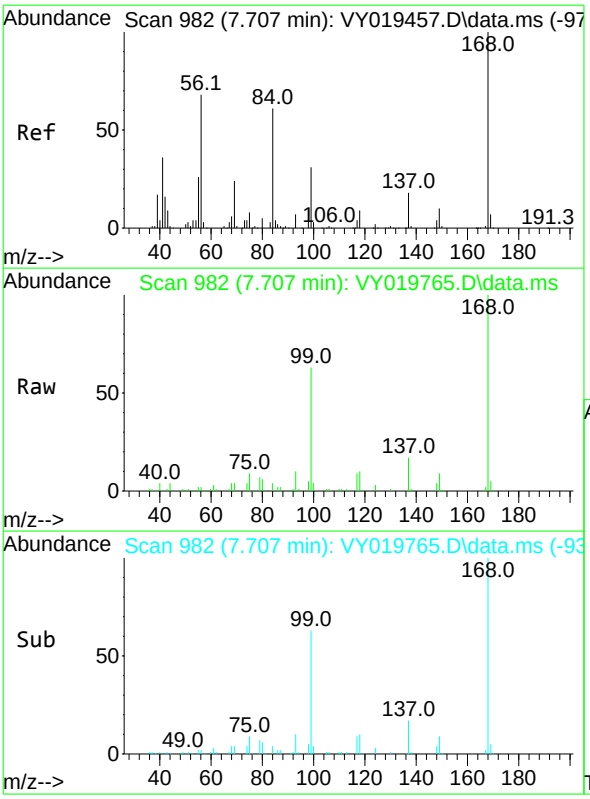
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain Ave

Quant Time: Oct 03 02:03:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration



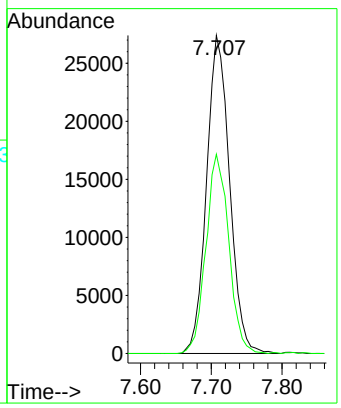


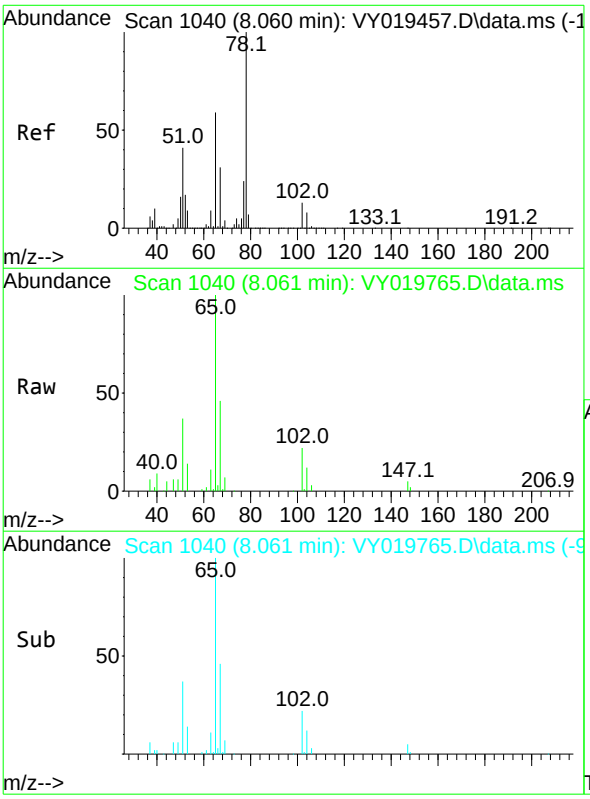
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain Ave

Tgt Ion:168 Resp: 61958

Ion	Ratio	Lower	Upper
168	100		
99	62.6	39.1	58.7#

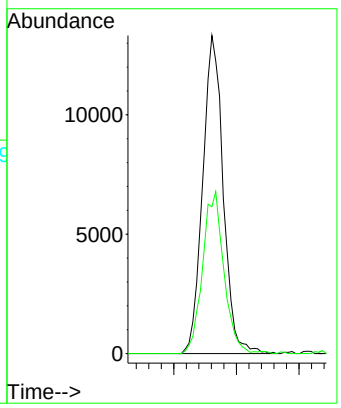


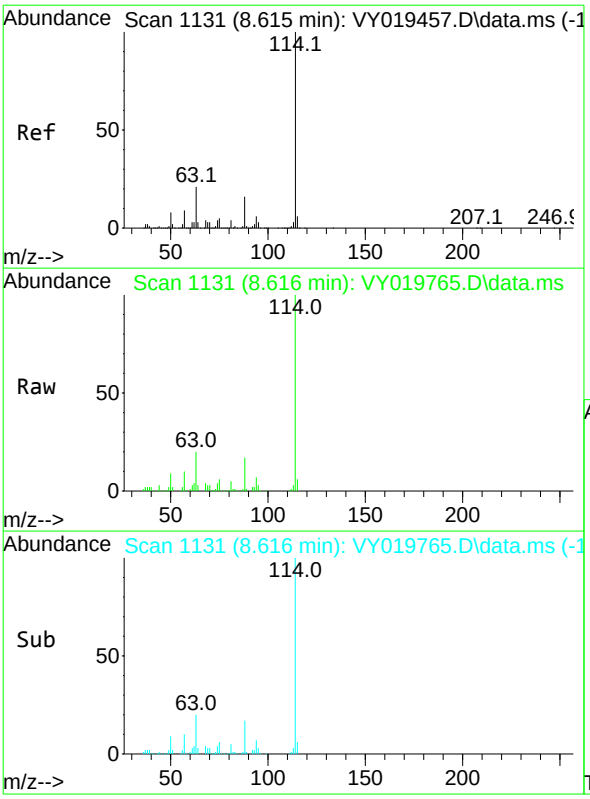


#33
1,2-Dichloroethane-d4
Concen: 52.810 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Tgt Ion: 65 Resp: 30298

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	109.6



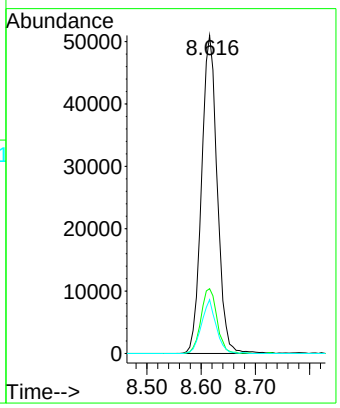


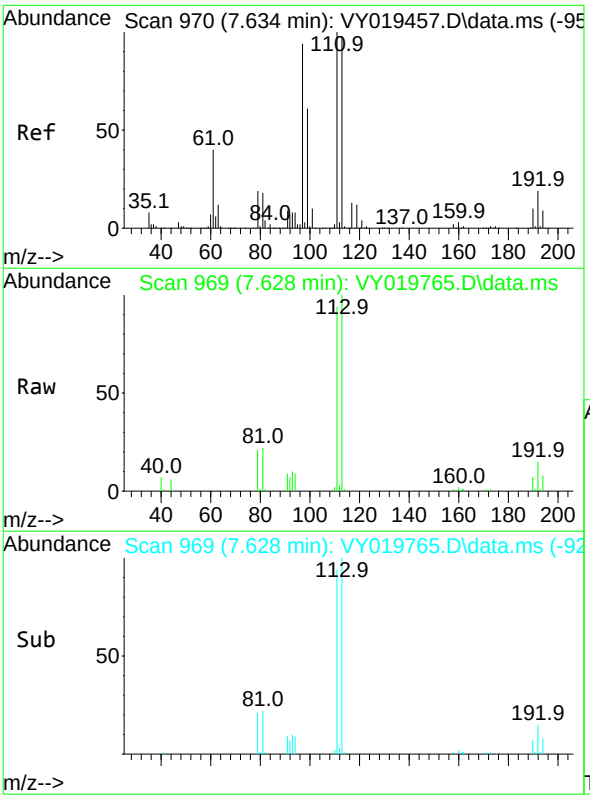
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain Ave

Tgt Ion:114 Resp: 102249

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	35.0
88	16.9	0.0	27.2

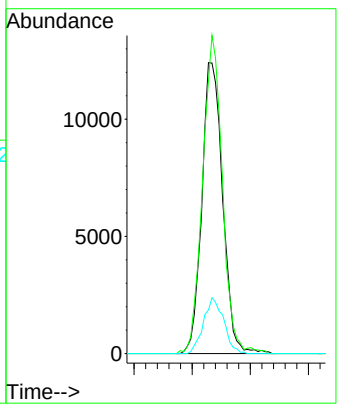


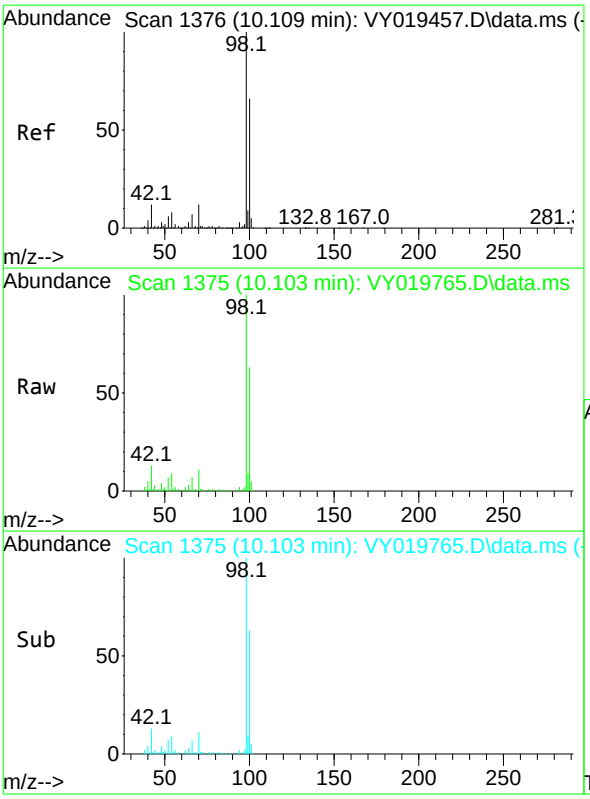


#35
Dibromofluoromethane
Concen: 53.228 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Tgt Ion:113 Resp: 30858

Ion	Ratio	Lower	Upper
113	100		
111	104.5	82.2	123.4
192	18.6	15.9	23.9



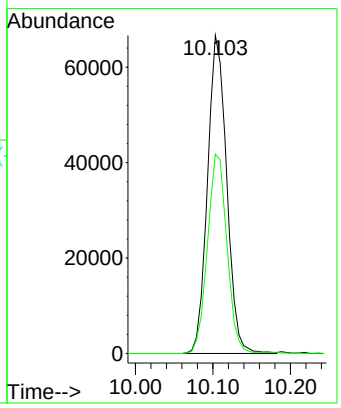


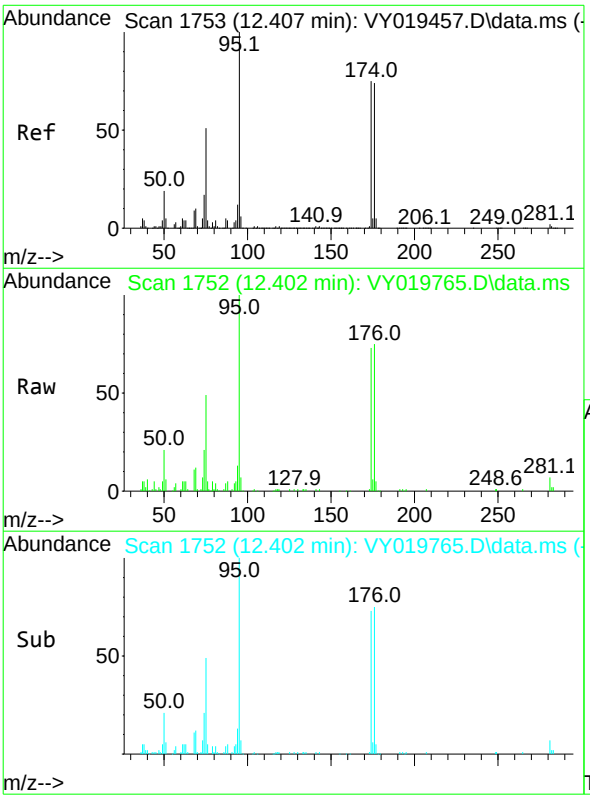
#50
Toluene-d8
Concen: 53.464 ug/l
RT: 10.103 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain Ave

Tgt Ion: 98 Resp: 114643

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.0	78.0

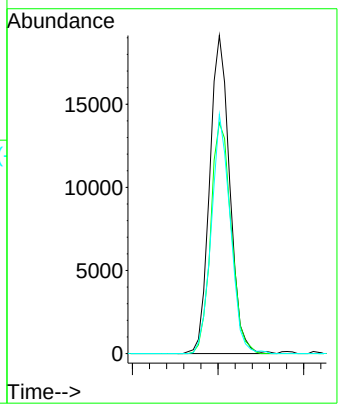


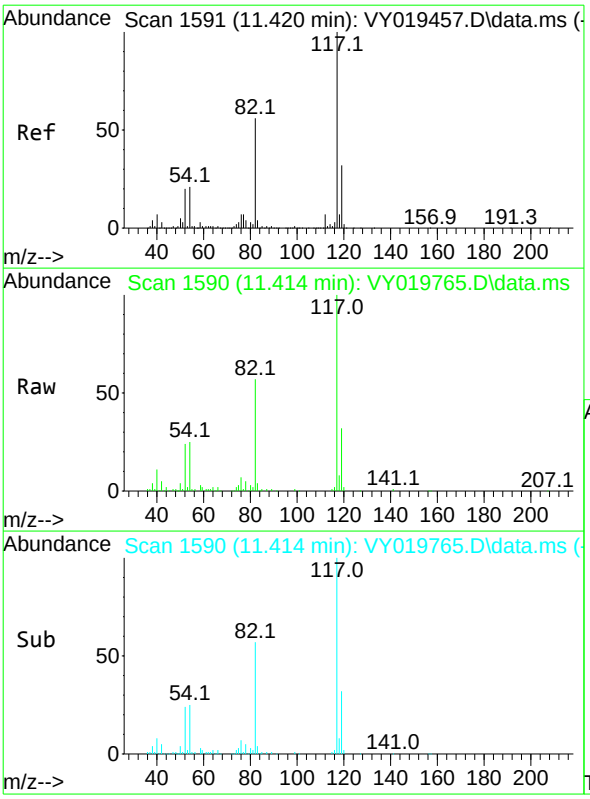


#62
4-Bromofluorobenzene
Concen: 37.658 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Tgt Ion: 95 Resp: 31049

Ion	Ratio	Lower	Upper
95	100		
174	74.5	0.0	175.6
176	71.5	0.0	171.4



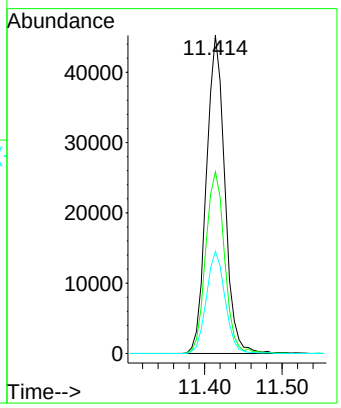


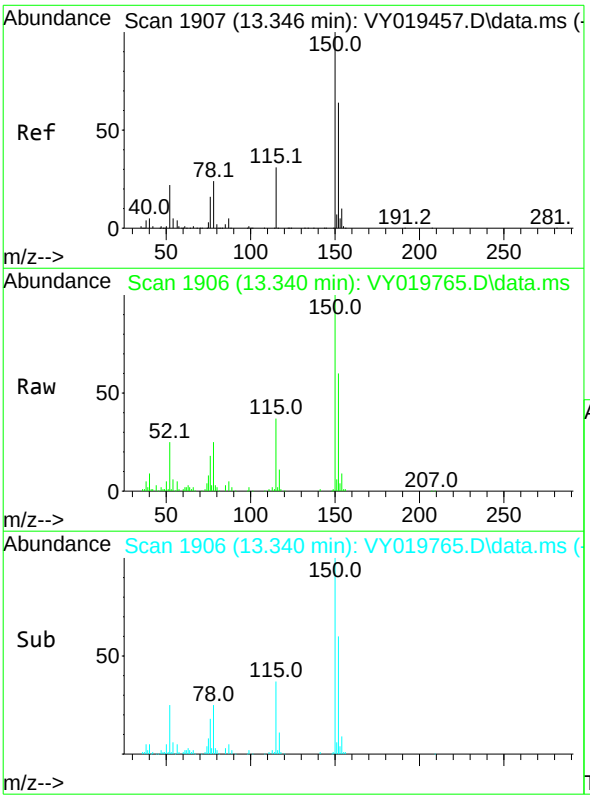
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain Ave

Tgt Ion:117 Resp: 74657

Ion	Ratio	Lower	Upper
117	100		
82	57.1	42.4	63.6
119	32.1	25.9	38.9

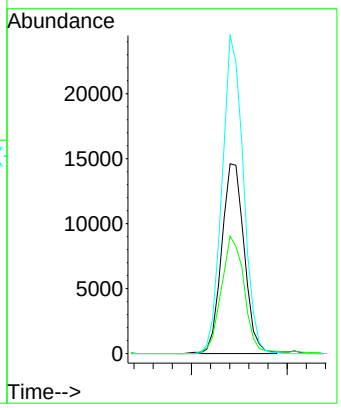


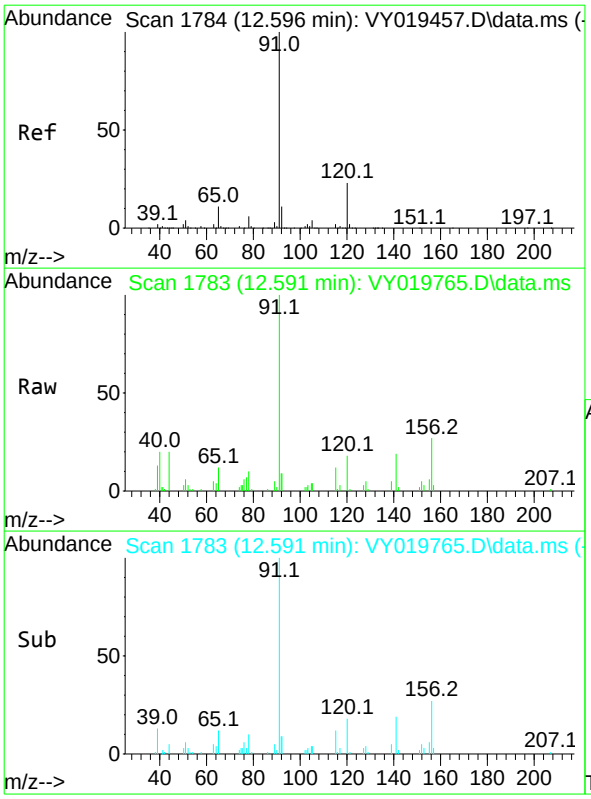


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Tgt Ion:152 Resp: 23916

Ion	Ratio	Lower	Upper
152	100		
115	63.2	28.2	84.7
150	158.0	0.0	345.6



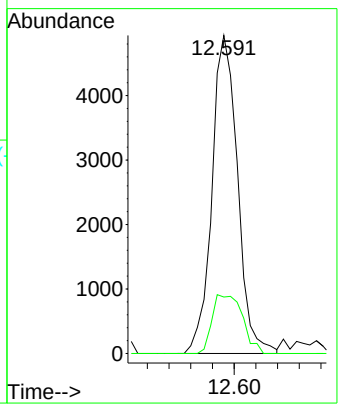


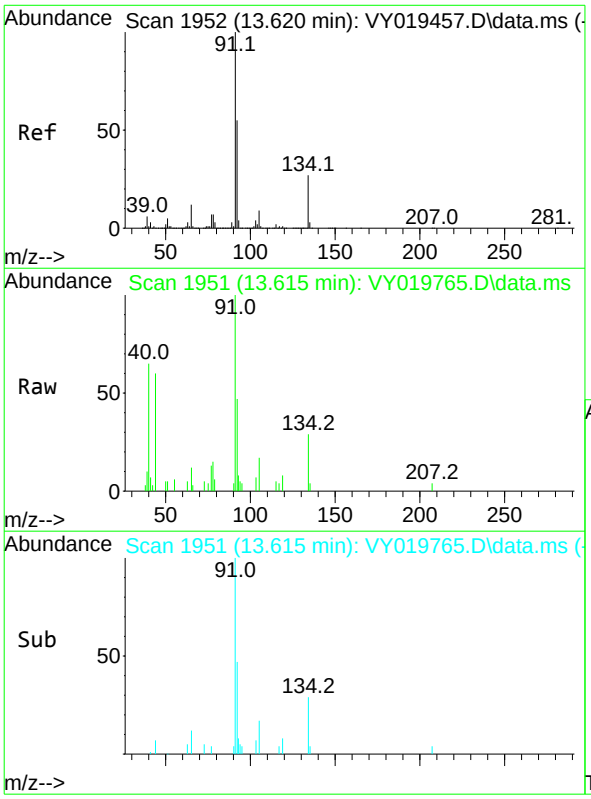
#78
n-propylbenzene
Concen: 3.937 ug/l
RT: 12.591 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain Ave

Tgt Ion: 91 Resp: 8096

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.5	34.4

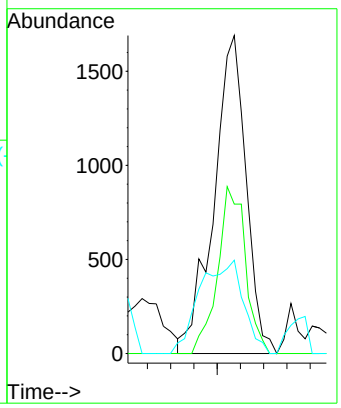


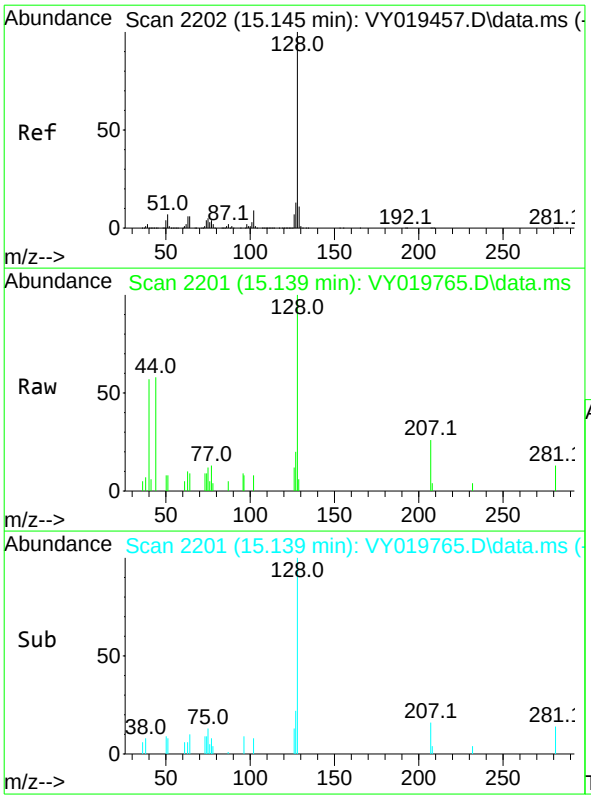


#89
n-Butylbenzene
Concen: 2.245 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Tgt Ion: 91 Resp: 3258

Ion	Ratio	Lower	Upper
91	100		
92	45.2	26.6	79.7
134	39.7	12.9	38.7#



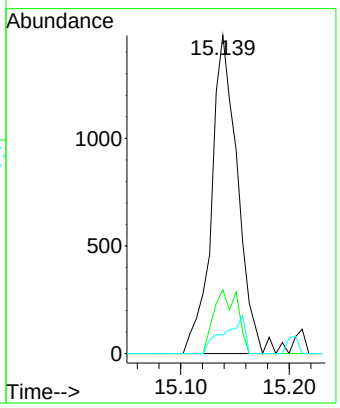


#95
Naphthalene
Concen: 3.038 ug/l
RT: 15.139 min Scan# 22
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain Ave

Tgt Ion:128 Resp: 2469

Ion	Ratio	Lower	Upper
128	100		
127	18.3	10.6	16.0#
129	9.5	8.6	13.0



Sample Results: **VY019765.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain Ave

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\82Y090924S.M
Title : SW846 8260

Signal : TIC: VY019765.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.068	52	57	60	rBV4	2705	5023	1.64%	0.273%
2	4.610	467	474	476	rBV5	3052	5738	1.88%	0.312%
3	6.878	839	846	858	rBV3	5951	20002	6.54%	1.088%
4	7.634	961	970	976	rBV2	42981	104134	34.03%	5.664%
5	7.707	976	982	995	rVB	84742	193990	63.39%	10.552%
6	8.061	1029	1040	1050	rBV2	38014	89988	29.41%	4.895%
7	8.616	1123	1131	1140	rBV	121005	242318	79.19%	13.180%
8	10.103	1368	1375	1385	rBV	176874	306006	100.00%	16.645%
9	10.512	1437	1442	1445	rBV2	3793	6260	2.05%	0.341%
10	10.871	1496	1501	1505	rBV4	1954	3215	1.05%	0.175%
11	11.243	1558	1562	1567	rBV6	2337	4179	1.37%	0.227%
12	11.414	1584	1590	1603	rBV	147873	246977	80.71%	13.434%
13	12.249	1722	1727	1733	rVB3	2891	5247	1.71%	0.285%
14	12.402	1745	1752	1763	rVB2	100754	175834	57.46%	9.564%
15	12.591	1771	1783	1794	rBV3	16221	45841	14.98%	2.493%
16	12.761	1801	1811	1815	rBV10	3708	11760	3.84%	0.640%
17	13.170	1871	1878	1883	rBV4	2196	4456	1.46%	0.242%
18	13.340	1898	1906	1916	rBV	95521	160414	52.42%	8.725%
19	13.511	1927	1934	1937	rBV3	9138	14944	4.88%	0.813%
20	13.542	1937	1939	1944	rVB4	4959	6554	2.14%	0.356%
21	13.596	1944	1948	1949	rBV3	4634	5933	1.94%	0.323%
22	13.889	1990	1996	2001	rBV2	30389	47139	15.40%	2.564%
23	13.944	2001	2005	2008	rBV3	2744	3546	1.16%	0.193%
24	13.993	2008	2013	2018	rVB5	7474	11860	3.88%	0.645%
25	14.212	2044	2049	2058	rVB3	15854	26906	8.79%	1.464%
26	14.480	2087	2093	2096	rBV4	8044	13334	4.36%	0.725%
27	14.596	2104	2112	2118	rVV3	17759	35362	11.56%	1.923%
28	14.657	2118	2122	2126	rVB4	2156	3782	1.24%	0.206%
29	14.858	2145	2155	2158	rBV6	4129	8055	2.63%	0.438%
30	14.956	2166	2171	2177	rBV7	3607	7947	2.60%	0.432%
31	15.139	2197	2201	2207	rVB4	3535	5248	1.71%	0.285%
32	15.297	2222	2227	2230	rVB6	1947	3276	1.07%	0.178%
33	15.925	2327	2330	2336	rVB6	1639	3200	1.05%	0.174%
34	16.169	2368	2370	2376	rVB5	2428	4521	1.48%	0.246%
35	16.370	2398	2403	2408	rBV7	2581	5479	1.79%	0.298%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain Ave

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\82Y090924S.M
Title : SW846 8260

Sum of corrected areas: 1838468

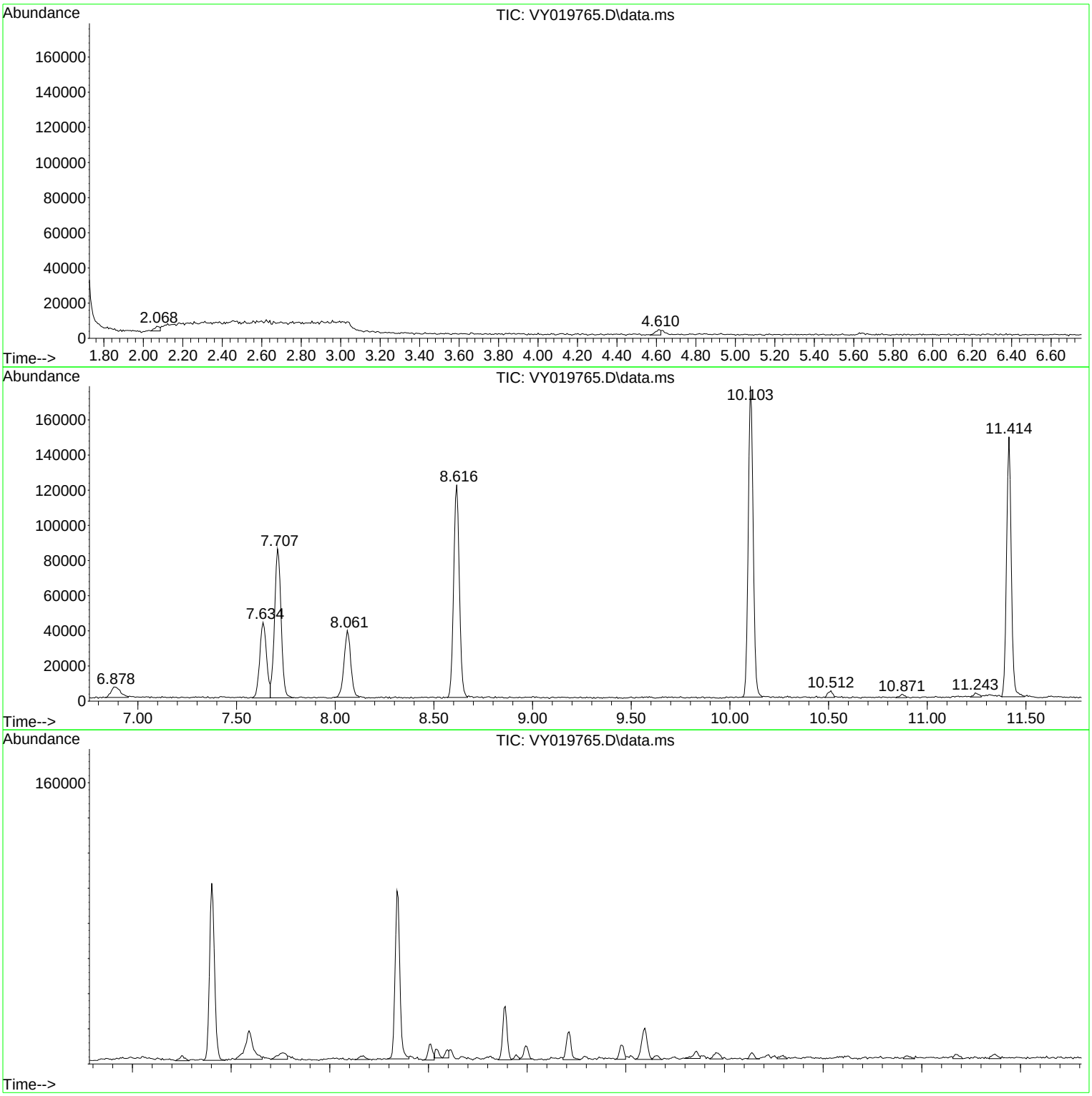
Sample Results: **VY019765.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain Ave

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain Ave

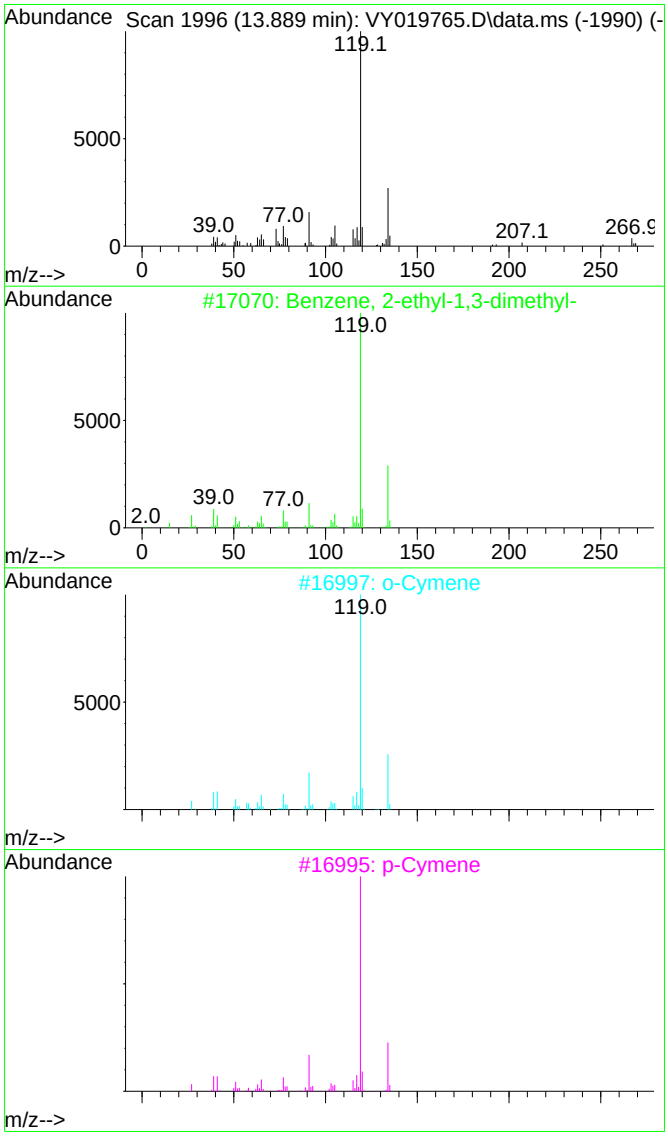
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

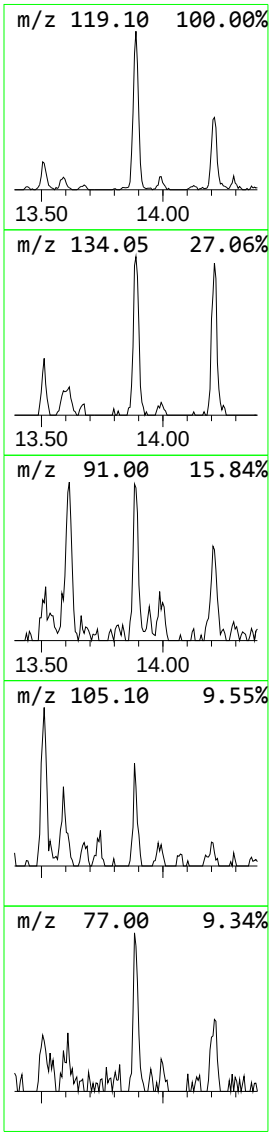
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	14.69 ug/l	47139	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	94
2	o-Cymene	134	C10H14	000527-84-4	94
3	p-Cymene	134	C10H14	000099-87-6	93
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91
5	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain Ave

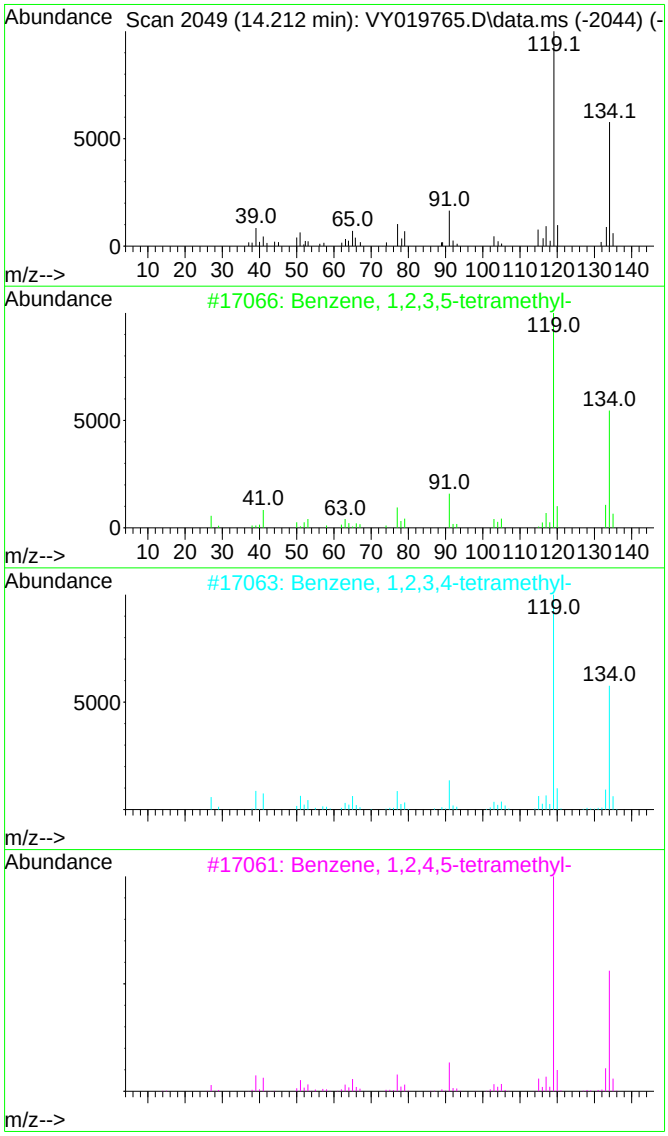
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

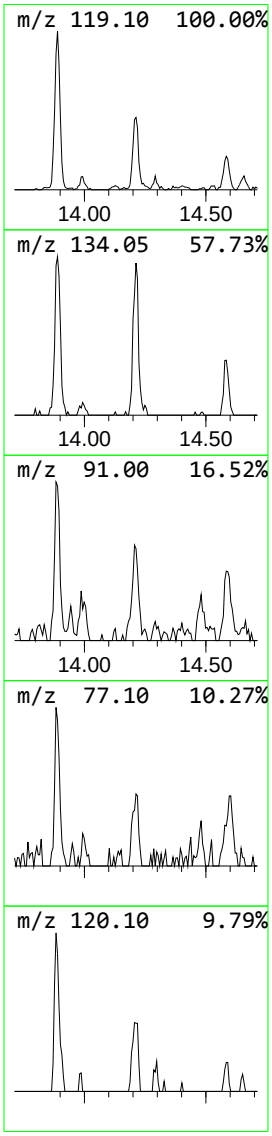
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.212	8.39 ug/l	26906	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	97
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	94
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain Ave

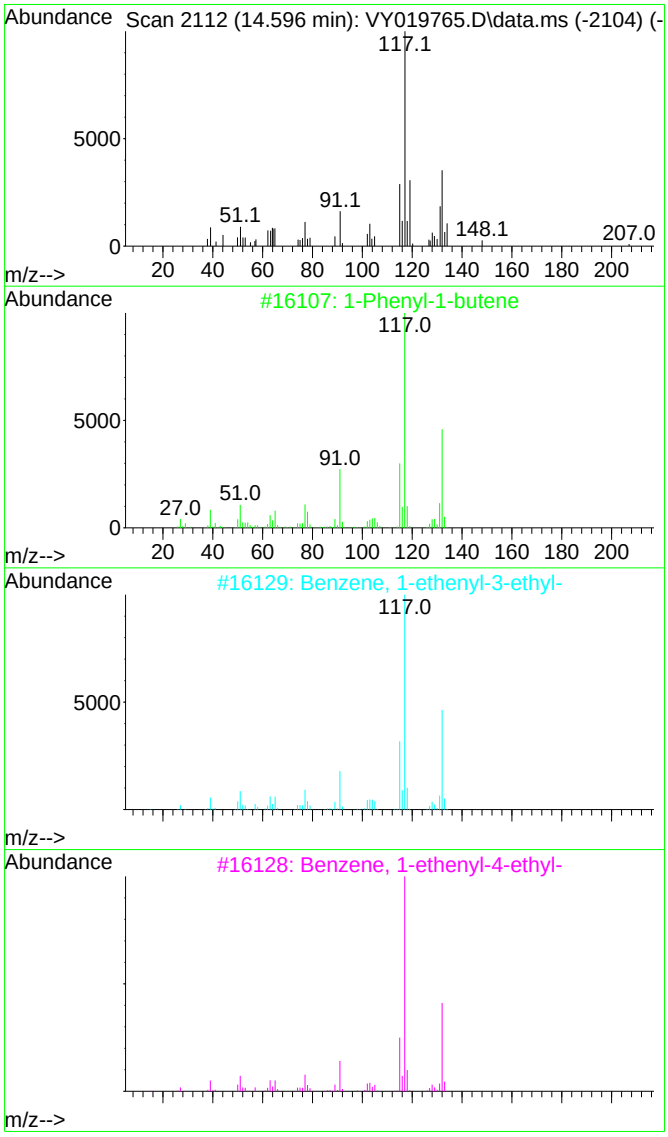
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

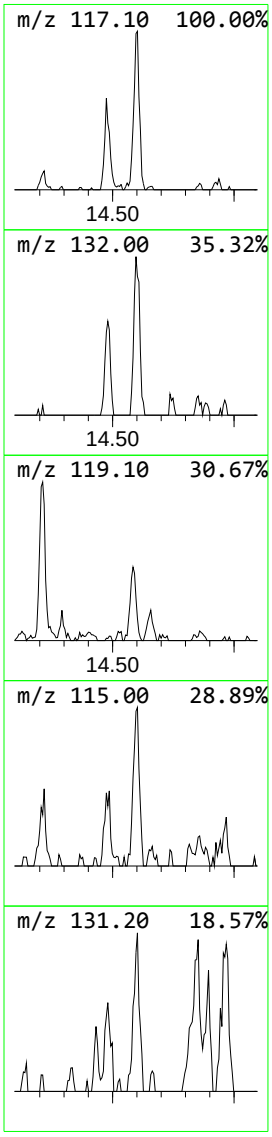
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 1-Phenyl-1-butene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.596	11.02 ug/l	35362	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenyl-1-butene	132	C10H12	000824-90-8	94
2	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	93
3	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	92
4	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	81
5	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	70





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain Ave

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.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
Benzene, 2-ethy...	13.889	14.7	ug/l	47139	4	13.340	160414	50.0
Benzene, 1,2,3,...	14.212	8.4	ug/l	26906	4	13.340	160414	50.0
1-Phenyl-1-butene	14.596	11.0	ug/l	35362	4	13.340	160414	50.0

Raw Data: **VY019780.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	10/01/24
Project:	Perth Amboy	Date Received:	10/01/24
Client Sample ID:	Chamberlain AveRE	SDG No.:	P4258
Lab Sample ID:	P4258-03RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86
Sample Wt/Vol:	4.99 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
VY019780.D	1		10/03/24 12:10	VY100324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.90	U	1.90	5.80	ug/Kg
74-87-3	Chloromethane	1.40	U	1.40	5.80	ug/Kg
75-01-4	Vinyl Chloride	0.90	U	0.90	5.80	ug/Kg
74-83-9	Bromomethane	1.20	U	1.20	5.80	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	5.80	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	5.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.91	U	0.91	5.80	ug/Kg
67-64-1	Acetone	7.30	U	7.30	29.1	ug/Kg
75-15-0	Carbon Disulfide	1.50	U	1.50	5.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.78	U	0.78	5.80	ug/Kg
79-20-9	Methyl Acetate	2.10	U	2.10	5.80	ug/Kg
75-09-2	Methylene Chloride	4.00	U	4.00	11.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.98	U	0.98	5.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.73	U	0.73	5.80	ug/Kg
110-82-7	Cyclohexane	0.80	U	0.80	5.80	ug/Kg
78-93-3	2-Butanone	6.60	U	6.60	29.1	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.71	U	0.71	5.80	ug/Kg
74-97-5	Bromochloromethane	2.80	U	2.80	5.80	ug/Kg
67-66-3	Chloroform	0.78	U	0.78	5.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.91	U	0.91	5.80	ug/Kg
108-87-2	Methylcyclohexane	1.00	U	1.00	5.80	ug/Kg
71-43-2	Benzene	0.84	U	0.84	5.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.71	U	0.71	5.80	ug/Kg
79-01-6	Trichloroethene	0.87	U	0.87	5.80	ug/Kg
78-87-5	1,2-Dichloropropane	0.77	U	0.77	5.80	ug/Kg
75-27-4	Bromodichloromethane	0.65	U	0.65	5.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.10	U	5.10	29.1	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.80	ug/Kg

Raw Data: **VY019780.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	10/01/24
Project:	Perth Amboy	Date Received:	10/01/24
Client Sample ID:	Chamberlain AveRE	SDG No.:	P4258
Lab Sample ID:	P4258-03RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86
Sample Wt/Vol:	4.99 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
VY019780.D	1		10/03/24 12:10	VY100324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.70	U	0.70	5.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.66	U	0.66	5.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.98	U	0.98	5.80	ug/Kg
591-78-6	2-Hexanone	5.60	U	5.60	29.1	ug/Kg
124-48-1	Dibromochloromethane	0.76	U	0.76	5.80	ug/Kg
106-93-4	1,2-Dibromoethane	0.92	U	0.92	5.80	ug/Kg
127-18-4	Tetrachloroethene	1.00	U	1.00	5.80	ug/Kg
108-90-7	Chlorobenzene	0.86	U	0.86	5.80	ug/Kg
100-41-4	Ethyl Benzene	0.72	U	0.72	5.80	ug/Kg
179601-23-1	m/p-Xylenes	1.60	U	1.60	11.7	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.80	ug/Kg
100-42-5	Styrene	0.70	U	0.70	5.80	ug/Kg
75-25-2	Bromoform	0.94	U	0.94	5.80	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.86	U	0.86	5.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.93	U	0.93	5.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.69	U	0.69	5.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.92	U	0.92	5.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.91	U	0.91	5.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	62.2		50 - 163	124%	SPK: 50
1868-53-7	Dibromofluoromethane	57.0		54 - 147	114%	SPK: 50
2037-26-5	Toluene-d8	54.2		58 - 134	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.5		29 - 146	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	82800	7.707			
540-36-3	1,4-Difluorobenzene	150000	8.616			
3114-55-4	Chlorobenzene-d5	119000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	38500	13.346			

Raw Data: **VY019780.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	10/01/24
Project:	Perth Amboy	Date Received:	10/01/24
Client Sample ID:	Chamberlain AveRE	SDG No.:	P4258
Lab Sample ID:	P4258-03RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86
Sample Wt/Vol:	4.99 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
VY019780.D	1		10/03/24 12:10	VY100324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Sample Results: **VY019780.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019780.D
Acq On : 03 Oct 2024 12:10
Operator : SY/MD
Sample : P4258-03RE
Misc : 4.99g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain AveRE

Quant Time: Oct 04 04:20:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

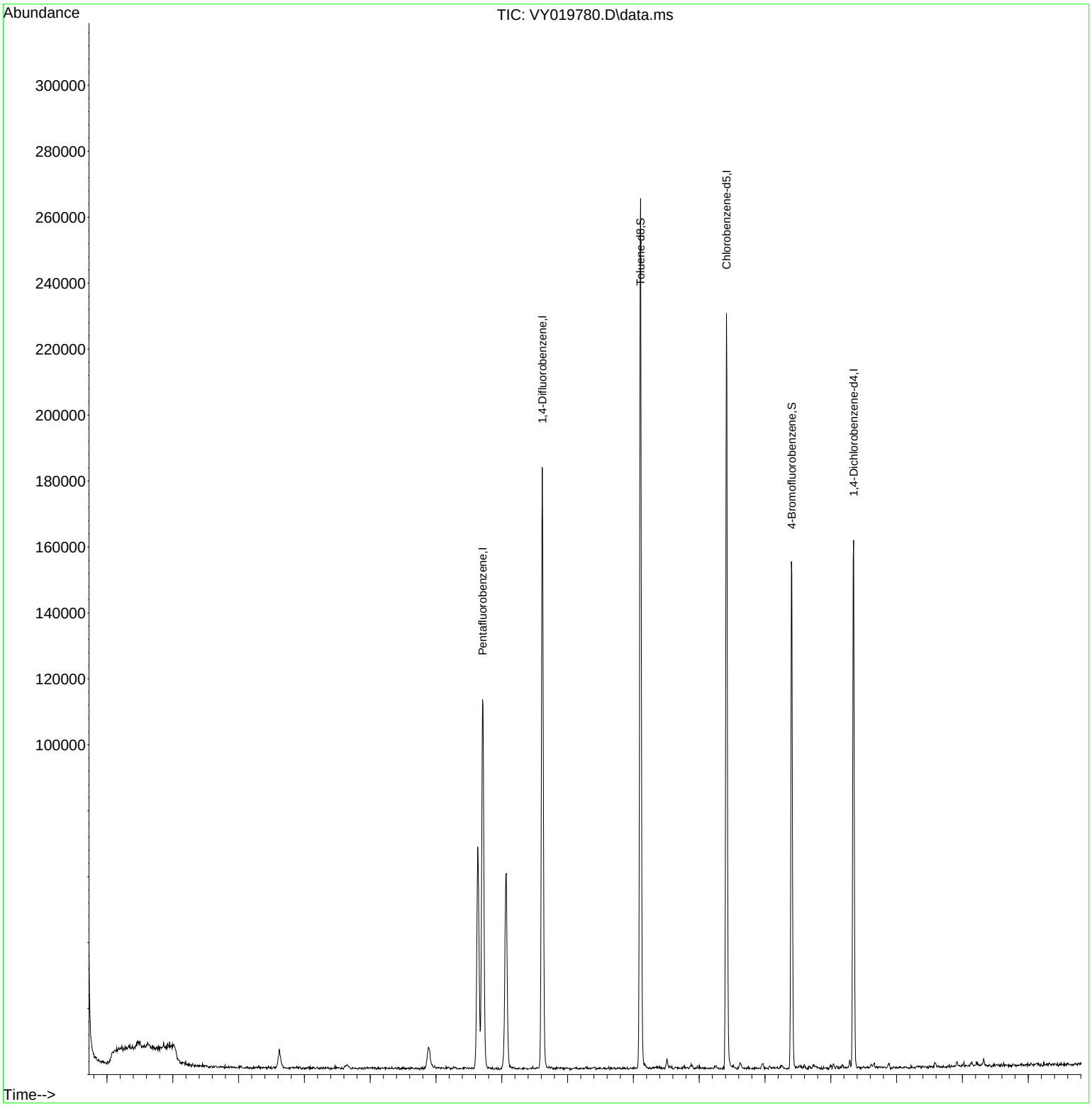
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	82774	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	150343	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	119106	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	38457	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	47695	62.227	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 124.460%			
35) Dibromofluoromethane	7.634	113	48548	56.953	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 113.900%			
50) Toluene-d8	10.109	98	170941	54.217	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 108.440%			
62) 4-Bromofluorobenzene	12.408	95	49064	40.471	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 80.940%			
Target Compounds						Qvalue
95) Naphthalene	15.145	128	1413	1.081	ug/l #	83

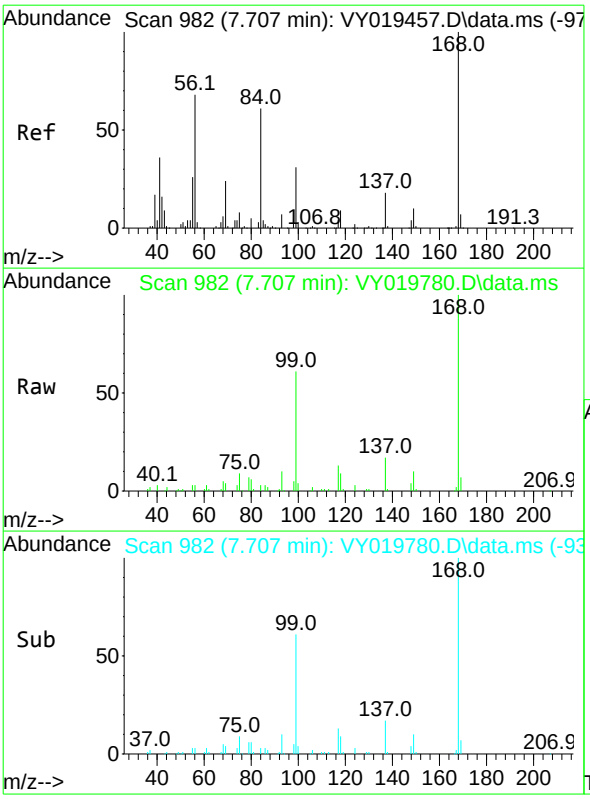
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019780.D
Acq On : 03 Oct 2024 12:10
Operator : SY/MD
Sample : P4258-03RE
Misc : 4.99g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain AveRE

Quant Time: Oct 04 04:20:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration



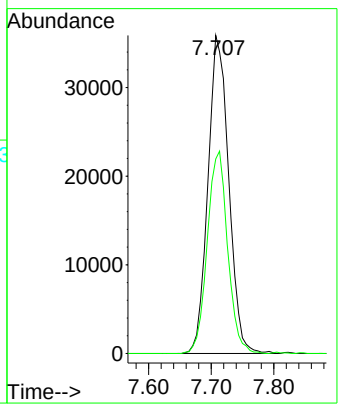


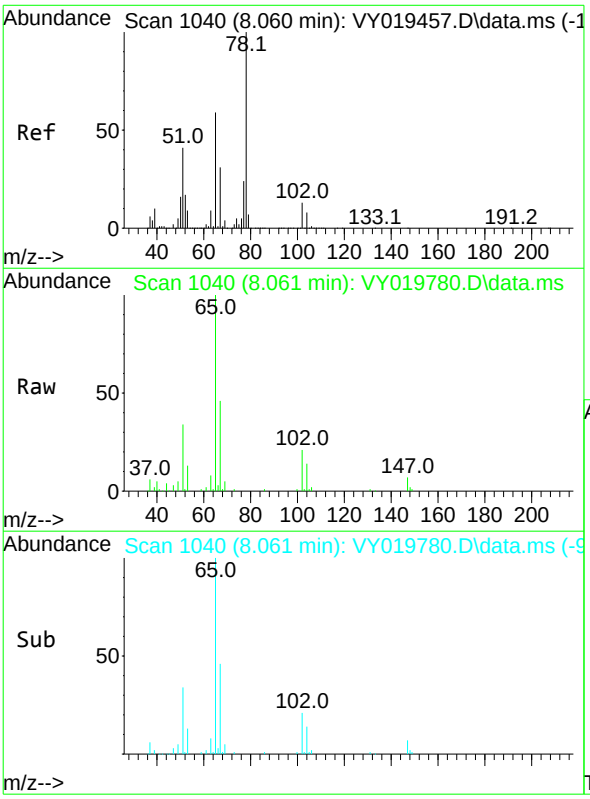
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain AveRE

Tgt Ion:168 Resp: 82774

Ion	Ratio	Lower	Upper
168	100		
99	61.2	39.1	58.7#

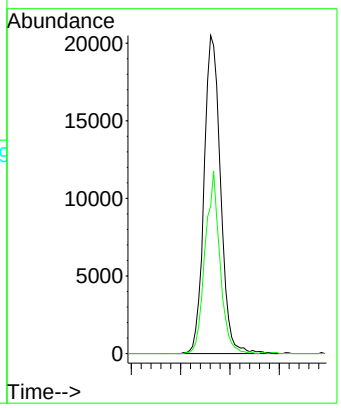


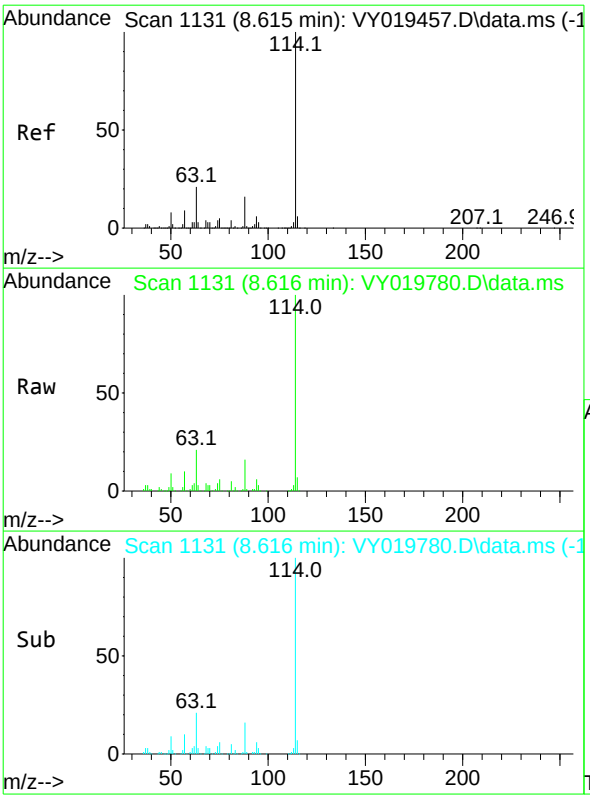


#33
1,2-Dichloroethane-d4
Concen: 62.227 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

Tgt Ion: 65 Resp: 47695

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	109.6



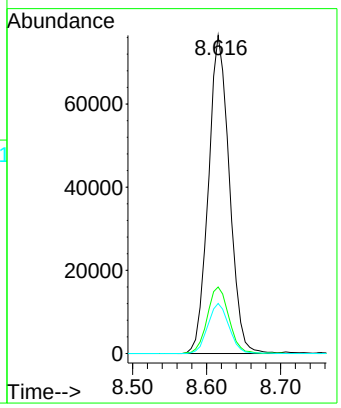


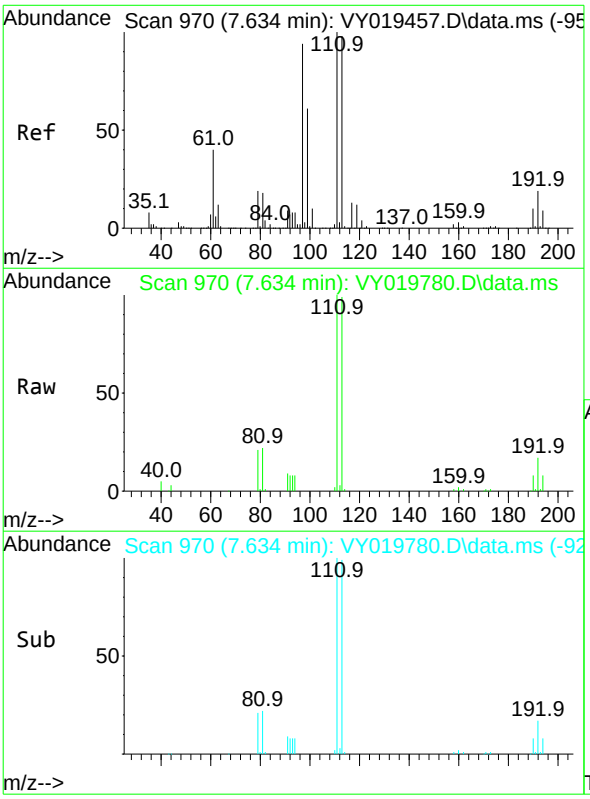
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain AveRE

Tgt Ion:114 Resp: 150343

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	35.0
88	15.7	0.0	27.2

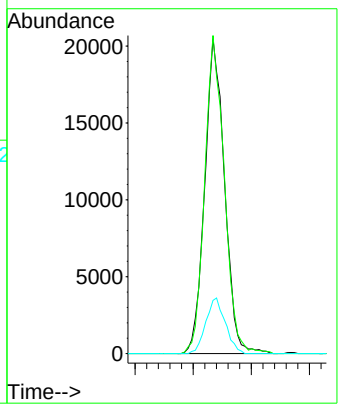


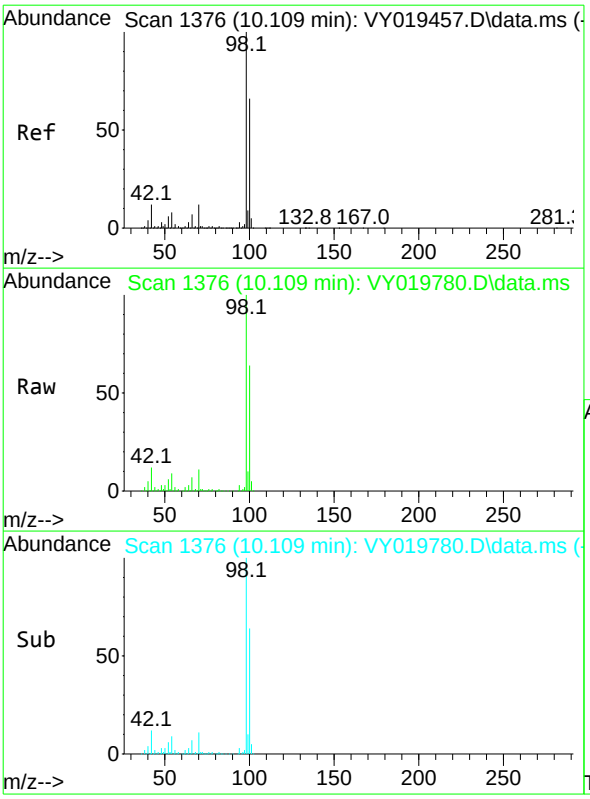


#35
Dibromofluoromethane
Concen: 56.953 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

Tgt Ion:113 Resp: 48548

Ion	Ratio	Lower	Upper
113	100		
111	100.1	82.2	123.4
192	17.3	15.9	23.9



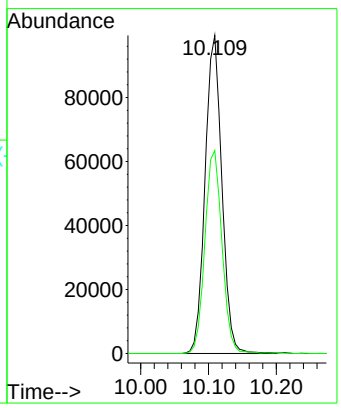


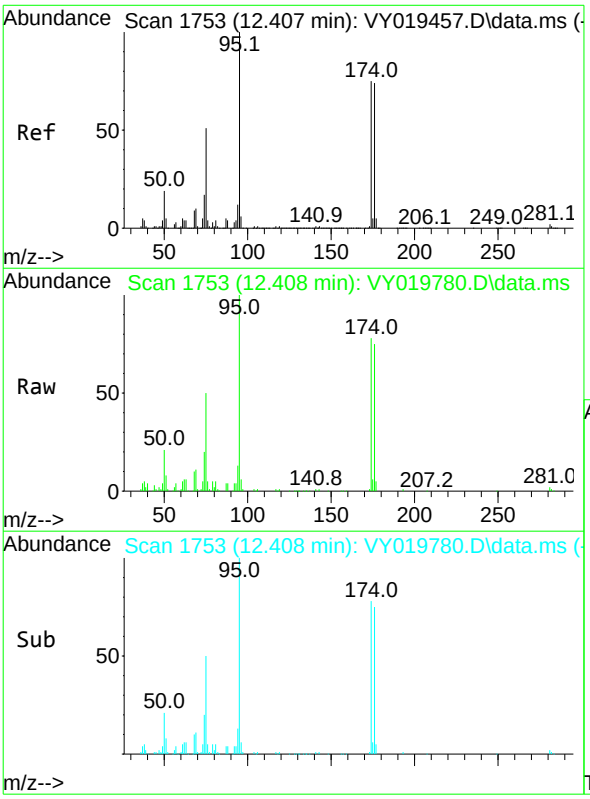
#50
Toluene-d8
Concen: 54.217 ug/l
RT: 10.109 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain AveRE

Tgt Ion: 98 Resp: 170941

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.0	78.0

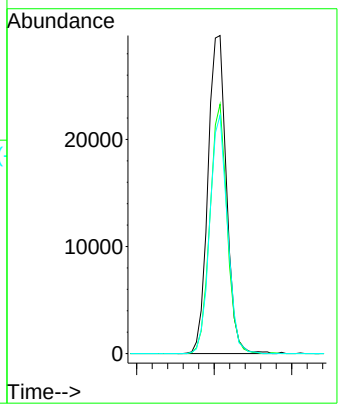


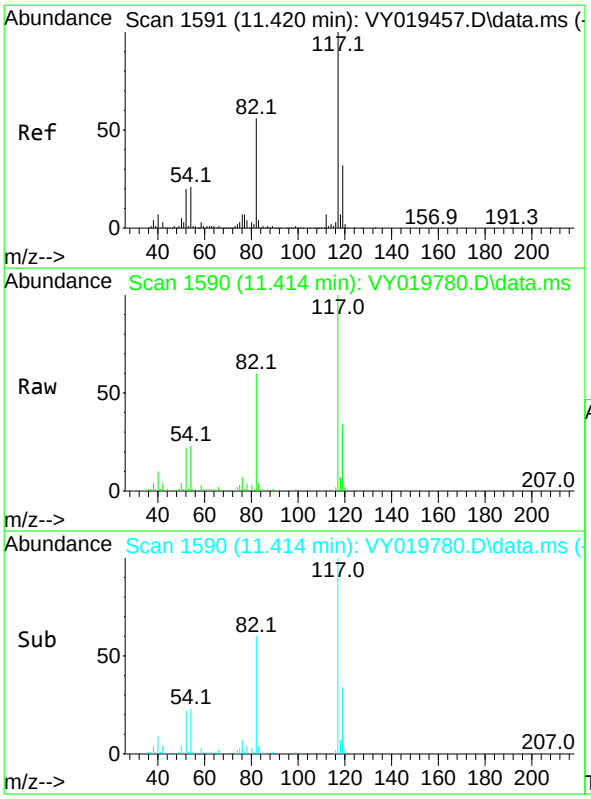


#62
4-Bromofluorobenzene
Concen: 40.471 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

Tgt Ion: 95 Resp: 49064

Ion	Ratio	Lower	Upper
95	100		
174	73.0	0.0	175.6
176	71.7	0.0	171.4



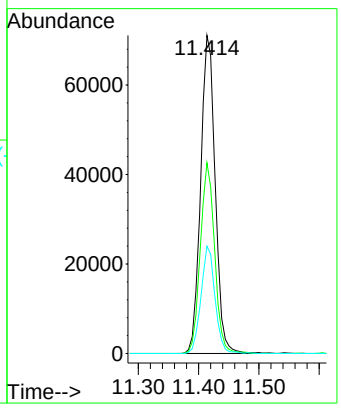


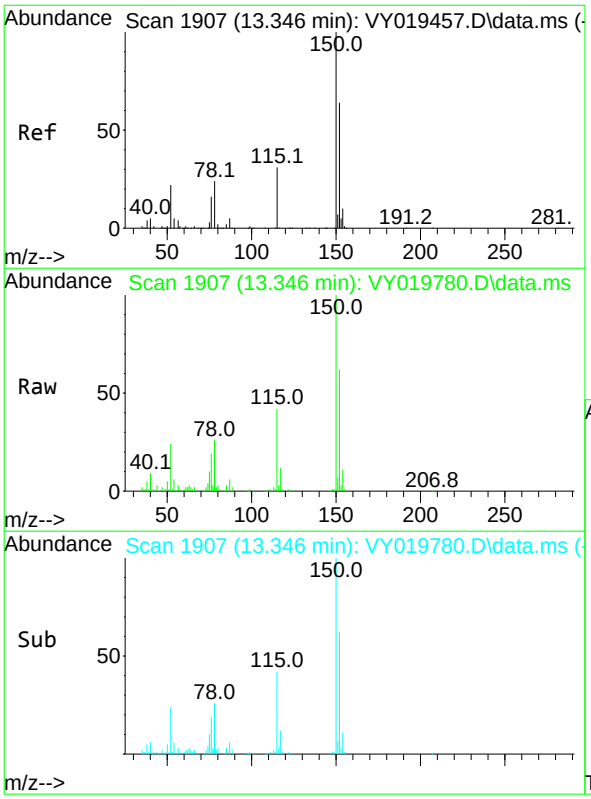
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain AveRE

Tgt Ion:117 Resp: 119106

Ion	Ratio	Lower	Upper
117	100		
82	59.9	42.4	63.6
119	33.7	25.9	38.9

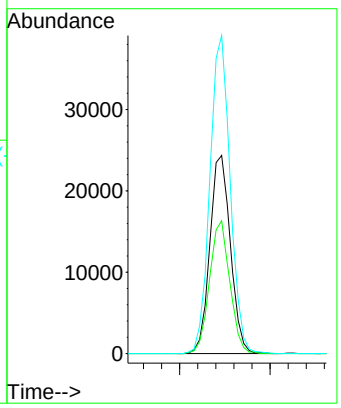


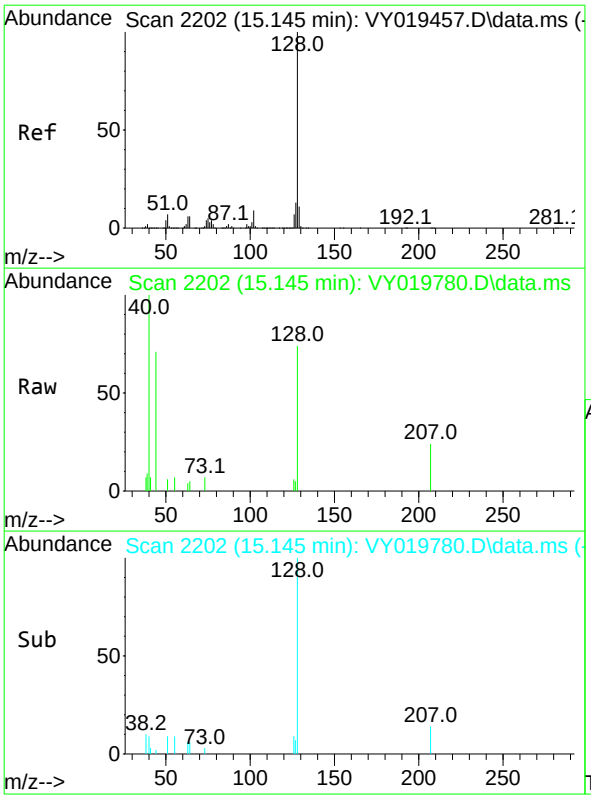


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

Tgt Ion:152 Resp: 38457

Ion	Ratio	Lower	Upper
152	100		
115	66.0	28.2	84.7
150	158.4	0.0	345.6



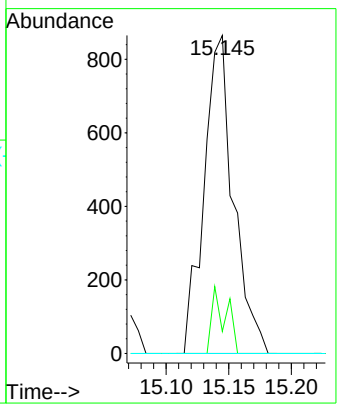


#95
Naphthalene
Concen: 1.081 ug/l
RT: 15.145 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

Instrument :
MSVOA_Y
ClientSampleId :
Chamberlain AveRE

Tgt Ion:128 Resp: 1413

Ion	Ratio	Lower	Upper
128	100		
127	10.1	10.6	16.0#
129	0.0	8.6	13.0#



CALIBRATION SUMMARY

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: MSVOA_Y Calibration Date(s): 09/09/2024 09/09/2024

Heated Purge: (Y/N) Y Calibration Time(s): 09:52 11:53

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

LAB FILE ID: RRF005 = VY019454.D RRF010 = VY019455.D RRF020 = VY019456.D
RRF050 = VY019457.D RRF100 = VY019458.D RRF150 = VY019459.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.375	0.371	0.373	0.265	0.248	0.264	0.316	19.8
Chloromethane	0.456	0.454	0.442	0.392	0.357	0.380	0.414	10.3
Vinyl Chloride	0.451	0.466	0.476	0.447	0.409	0.435	0.447	5.2
Bromomethane	0.255	0.278	0.273	0.283	0.269	0.291	0.275	4.6
Chloroethane	0.300	0.303	0.299	0.297	0.270	0.286	0.292	4.3
Trichlorofluoromethane	0.760	0.775	0.776	0.733	0.686	0.743	0.746	4.6
1,1,2-Trichlorotrifluoroethane	0.477	0.480	0.476	0.457	0.425	0.453	0.461	4.6
1,1-Dichloroethene	0.457	0.449	0.450	0.447	0.413	0.446	0.444	3.5
Acetone	0.102	0.113	0.106	0.124	0.107	0.109	0.110	6.9
Carbon Disulfide	1.144	1.159	1.161	1.283	1.177	1.266	1.199	5
Methyl tert-butyl Ether	1.146	1.304	1.294	1.313	1.212	1.270	1.256	5.2
Methyl Acetate	0.285	0.314	0.279	0.345	0.283	0.290	0.299	8.5
Methylene Chloride	0.538	0.524	0.513	0.502	0.456	0.485	0.503	5.8
trans-1,2-Dichloroethene	0.488	0.488	0.484	0.500	0.461	0.496	0.486	2.9
1,1-Dichloroethane	0.889	0.945	0.936	0.945	0.862	0.923	0.917	3.7
Cyclohexane	0.969	0.873	0.819	0.803	0.735	0.772	0.829	10
2-Butanone	0.134	0.166	0.159	0.171	0.154	0.158	0.157	8.1
Carbon Tetrachloride	0.440	0.451	0.441	0.437	0.408	0.433	0.435	3.4
cis-1,2-Dichloroethene	0.568	0.592	0.602	0.613	0.564	0.605	0.591	3.4
Bromochloromethane	0.368	0.373	0.378	0.410	0.383	0.402	0.386	4.4
Chloroform	0.909	0.952	0.954	0.967	0.885	0.947	0.936	3.4
1,1,1-Trichloroethane	0.825	0.868	0.851	0.853	0.789	0.847	0.839	3.3
Methylcyclohexane	0.524	0.533	0.514	0.516	0.481	0.513	0.513	3.4
Benzene	1.169	1.235	1.211	1.212	1.118	1.184	1.188	3.5
1,2-Dichloroethane	0.297	0.336	0.325	0.330	0.307	0.324	0.320	4.7
Trichloroethene	0.301	0.309	0.315	0.312	0.288	0.307	0.306	3.1
1,2-Dichloropropane	0.287	0.301	0.299	0.294	0.273	0.289	0.290	3.5
Bromodichloromethane	0.413	0.445	0.431	0.437	0.408	0.428	0.427	3.3
4-Methyl-2-Pentanone	0.181	0.225	0.214	0.222	0.203	0.209	0.209	7.7
Toluene	0.738	0.793	0.775	0.790	0.725	0.764	0.764	3.6

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

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: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: MSVOA_Y Calibration Date(s): 09/09/2024 09/09/2024

Heated Purge: (Y/N) Y Calibration Time(s): 09:52 11:53

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

LAB FILE ID: RRF005 = VY019454.D RRF010 = VY019455.D RRF020 = VY019456.D
RRF050 = VY019457.D RRF100 = VY019458.D RRF150 = VY019459.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.366	0.424	0.416	0.426	0.393	0.417	0.407	5.8
cis-1,3-Dichloropropene	0.444	0.491	0.485	0.492	0.453	0.478	0.474	4.3
1,1,2-Trichloroethane	0.209	0.227	0.219	0.231	0.211	0.220	0.219	4
2-Hexanone	0.131	0.166	0.158	0.163	0.149	0.152	0.153	8.2
Dibromochloromethane	0.260	0.302	0.297	0.304	0.281	0.296	0.290	5.8
1,2-Dibromoethane	0.188	0.216	0.211	0.212	0.195	0.204	0.204	5.5
Tetrachloroethene	0.315	0.319	0.313	0.312	0.291	0.307	0.310	3.2
Chlorobenzene	0.961	1.026	1.010	0.995	0.925	0.983	0.984	3.7
Ethyl Benzene	1.739	1.856	1.796	1.769	1.626	1.701	1.748	4.5
m/p-Xylenes	0.656	0.688	0.682	0.670	0.620	0.650	0.661	3.7
o-Xylene	0.646	0.673	0.667	0.656	0.601	0.635	0.646	4
Styrene	1.061	1.143	1.126	1.112	1.031	1.073	1.091	3.9
Bromoform	0.173	0.207	0.196	0.205	0.189	0.198	0.195	6.3
Isopropylbenzene	3.732	3.822	3.698	3.613	3.336	3.563	3.627	4.7
1,1,2,2-Tetrachloroethane	0.589	0.684	0.652	0.665	0.617	0.654	0.644	5.4
1,3-Dichlorobenzene	1.564	1.622	1.612	1.575	1.453	1.554	1.563	3.8
1,4-Dichlorobenzene	1.554	1.596	1.594	1.565	1.452	1.548	1.551	3.4
1,2-Dichlorobenzene	1.367	1.448	1.414	1.422	1.315	1.404	1.395	3.4
1,2-Dibromo-3-Chloropropane	0.099	0.116	0.105	0.110	0.103	0.110	0.107	5.5
1,2,4-Trichlorobenzene	0.810	0.837	0.858	0.874	0.817	0.894	0.848	3.9
1,2,3-Trichlorobenzene	0.664	0.719	0.738	0.754	0.705	0.776	0.726	5.4
1,2-Dichloroethane-d4	0.420	0.462	0.466	0.485	0.465	0.480	0.463	5
Dibromofluoromethane	0.264	0.291	0.287	0.290	0.279	0.288	0.283	3.7
Toluene-d8	0.986	1.073	1.055	1.084	1.033	1.060	1.049	3.4
4-Bromofluorobenzene	0.425	0.414	0.407	0.400	0.385	0.389	0.403	3.8

* 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 : 82Y090924S.M
Title : SW846 8260
Last Update : Mon Sep 09 16:00:30 2024
Response Via : Initial Calibration

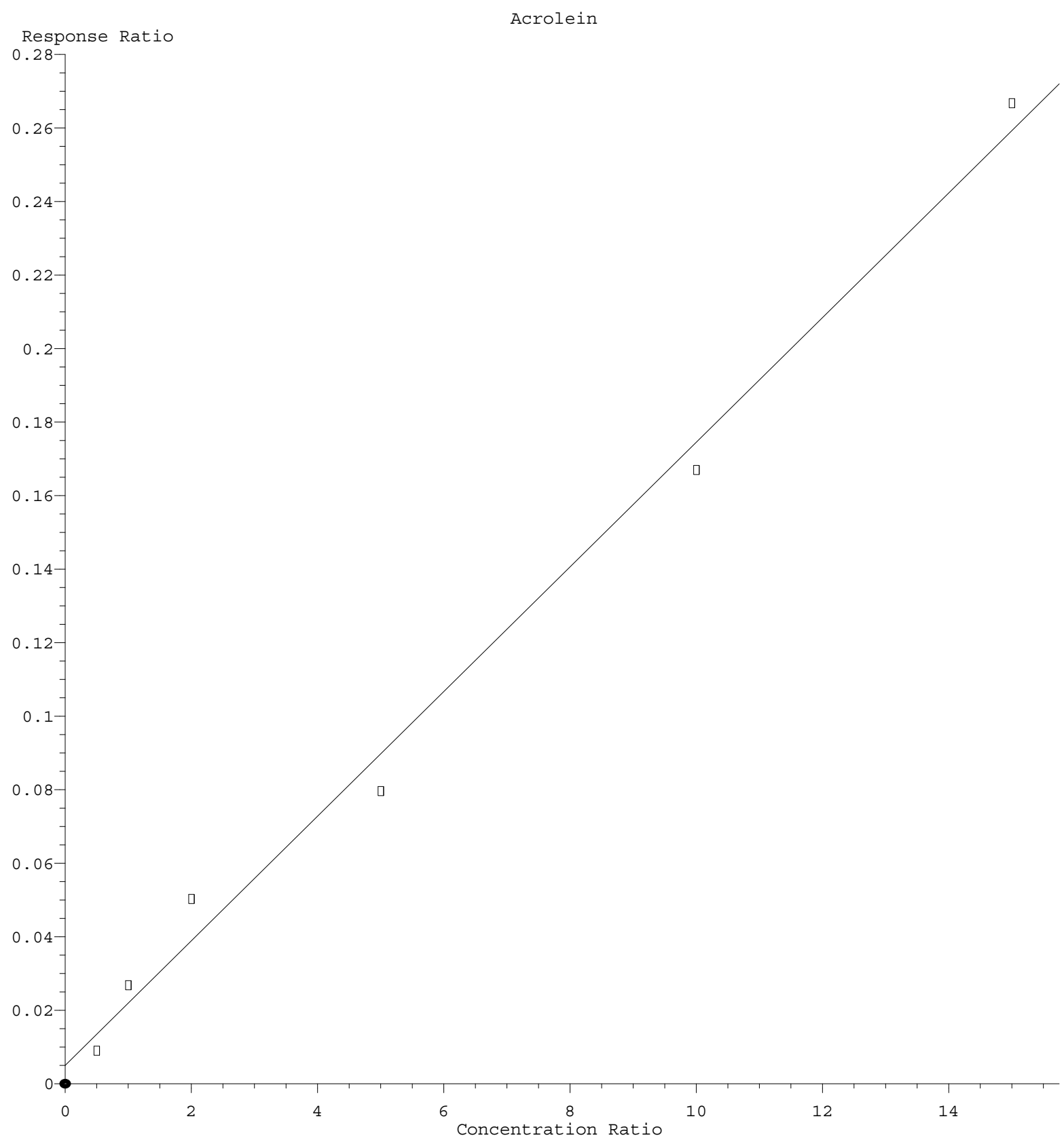
Calibration Files
5 =VY019454.D 10 =VY019455.D 20 =VY019456.D 50 =VY019457.D 100 =VY019458.D 150 =VY019459.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.375	0.371	0.373	0.265	0.248	0.264	0.316	19.83
3)	P	Chloromethane	0.456	0.454	0.442	0.392	0.357	0.380	0.414	10.30
4)	C	Vinyl Chloride	0.451	0.466	0.476	0.447	0.409	0.435	0.447	5.25#
5)	T	Bromomethane	0.255	0.278	0.273	0.283	0.269	0.291	0.275	4.55
6)	T	Chloroethane	0.300	0.303	0.299	0.297	0.270	0.286	0.292	4.27
7)	T	Trichlorofluor...	0.760	0.775	0.776	0.733	0.686	0.743	0.746	4.55
8)	T	Diethyl Ether	0.229	0.257	0.253	0.264	0.242	0.258	0.250	5.16
9)	T	1,1,2-Trichlor...	0.477	0.480	0.476	0.457	0.425	0.453	0.461	4.56
10)	T	Methyl Iodide	0.573	0.608	0.605	0.611	0.557	0.593	0.591	3.70
11)	T	Tert butyl alc...	0.033	0.040	0.036	0.040	0.037	0.038	0.037	7.08
12)	CM	1,1-Dichloroet...	0.457	0.449	0.450	0.447	0.413	0.446	0.444	3.54#
13)	T	Acrolein	0.018	0.027	0.025	0.016	0.017	0.018	0.020	23.32
14)	T	Allyl chloride	0.794	0.797	0.818	0.812	0.747	0.806	0.796	3.22
15)	T	Acrylonitrile	0.091	0.114	0.108	0.116	0.107	0.111	0.108	8.27
16)	T	Acetone	0.102	0.113	0.106	0.124	0.107	0.109	0.110	6.93
17)	T	Carbon Disulfide	1.144	1.159	1.161	1.283	1.177	1.266	1.199	5.02
18)	T	Methyl Acetate	0.285	0.314	0.279	0.345	0.283	0.290	0.299	8.52
19)	T	Methyl tert-bu...	1.146	1.304	1.294	1.313	1.212	1.270	1.256	5.18
20)	T	Methylene Chlo...	0.538	0.524	0.513	0.502	0.456	0.485	0.503	5.80
21)	T	trans-1,2-Dich...	0.488	0.488	0.484	0.500	0.461	0.496	0.486	2.86
22)	T	Diisopropyl ether	1.527	1.691	1.686	1.696	1.556	1.645	1.634	4.53
23)	T	Vinyl Acetate	0.811	0.978	0.968	0.968	0.914	0.959	0.933	6.84
24)	P	1,1-Dichloroet...	0.889	0.945	0.936	0.945	0.862	0.923	0.917	3.71
25)	T	2-Butanone	0.134	0.166	0.159	0.171	0.154	0.158	0.157	8.10
26)	T	2,2-Dichloropr...	0.821	0.847	0.849	0.837	0.772	0.835	0.827	3.49
27)	T	cis-1,2-Dichlo...	0.568	0.592	0.602	0.613	0.564	0.605	0.591	3.40
28)	T	Bromochloromet...	0.368	0.373	0.378	0.410	0.383	0.402	0.386	4.42
29)	T	Tetrahydrofuran	0.081	0.102	0.094	0.103	0.094	0.097	0.095	8.37
30)	C	Chloroform	0.909	0.952	0.954	0.967	0.885	0.947	0.936	3.37#
31)	T	Cyclohexane	0.969	0.873	0.819	0.803	0.735	0.772	0.829	10.01
32)	T	1,1,1-Trichlor...	0.825	0.868	0.851	0.853	0.789	0.847	0.839	3.33
33)	S	1,2-Dichloroet...	0.420	0.462	0.466	0.485	0.465	0.480	0.463	4.98
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.264	0.291	0.287	0.290	0.279	0.288	0.283	3.73
36)	T	1,1-Dichloropr...	0.383	0.398	0.391	0.394	0.363	0.386	0.386	3.23
37)	T	Ethyl Acetate	0.162	0.210	0.203	0.210	0.197	0.203	0.198	9.09
38)	T	Carbon Tetrach...	0.440	0.451	0.441	0.437	0.408	0.433	0.435	3.37
39)	T	Methylcyclohexane	0.524	0.533	0.514	0.516	0.481	0.513	0.513	3.42
40)	TM	Benzene	1.169	1.235	1.211	1.212	1.118	1.184	1.188	3.51
41)	T	Methacrylonitrile	0.099	0.114	0.126	0.131	0.107	0.115	0.115	10.33
42)	TM	1,2-Dichloroet...	0.297	0.336	0.325	0.330	0.307	0.324	0.320	4.69
43)	T	Isopropyl Acetate	0.366	0.435	0.427	0.433	0.406	0.423	0.415	6.28
44)	TM	Trichloroethene	0.301	0.309	0.315	0.312	0.288	0.307	0.306	3.14
45)	C	1,2-Dichloropr...	0.287	0.301	0.299	0.294	0.273	0.289	0.290	3.52#
46)	T	Dibromomethane	0.138	0.168	0.162	0.168	0.154	0.162	0.159	7.08
47)	T	Bromodichlorom...	0.413	0.445	0.431	0.437	0.408	0.428	0.427	3.30
48)	T	Methyl methacr...	0.170	0.207	0.197	0.212	0.192	0.200	0.196	7.55
49)	T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	8.79
50)	S	Toluene-d8	0.986	1.073	1.055	1.084	1.033	1.060	1.049	3.38
51)	T	4-Methyl-2-Pen...	0.181	0.225	0.214	0.222	0.203	0.209	0.209	7.68
52)	CM	Toluene	0.738	0.793	0.775	0.790	0.725	0.764	0.764	3.65#
53)	T	t-1,3-Dichloro...	0.366	0.424	0.416	0.426	0.393	0.417	0.407	5.76
54)	T	cis-1,3-Dichlo...	0.444	0.491	0.485	0.492	0.453	0.478	0.474	4.32
55)	T	1,1,2-Trichlor...	0.209	0.227	0.219	0.231	0.211	0.220	0.219	4.02
56)	T	Ethyl methacry...	0.281	0.348	0.341	0.348	0.333	0.349	0.333	7.88

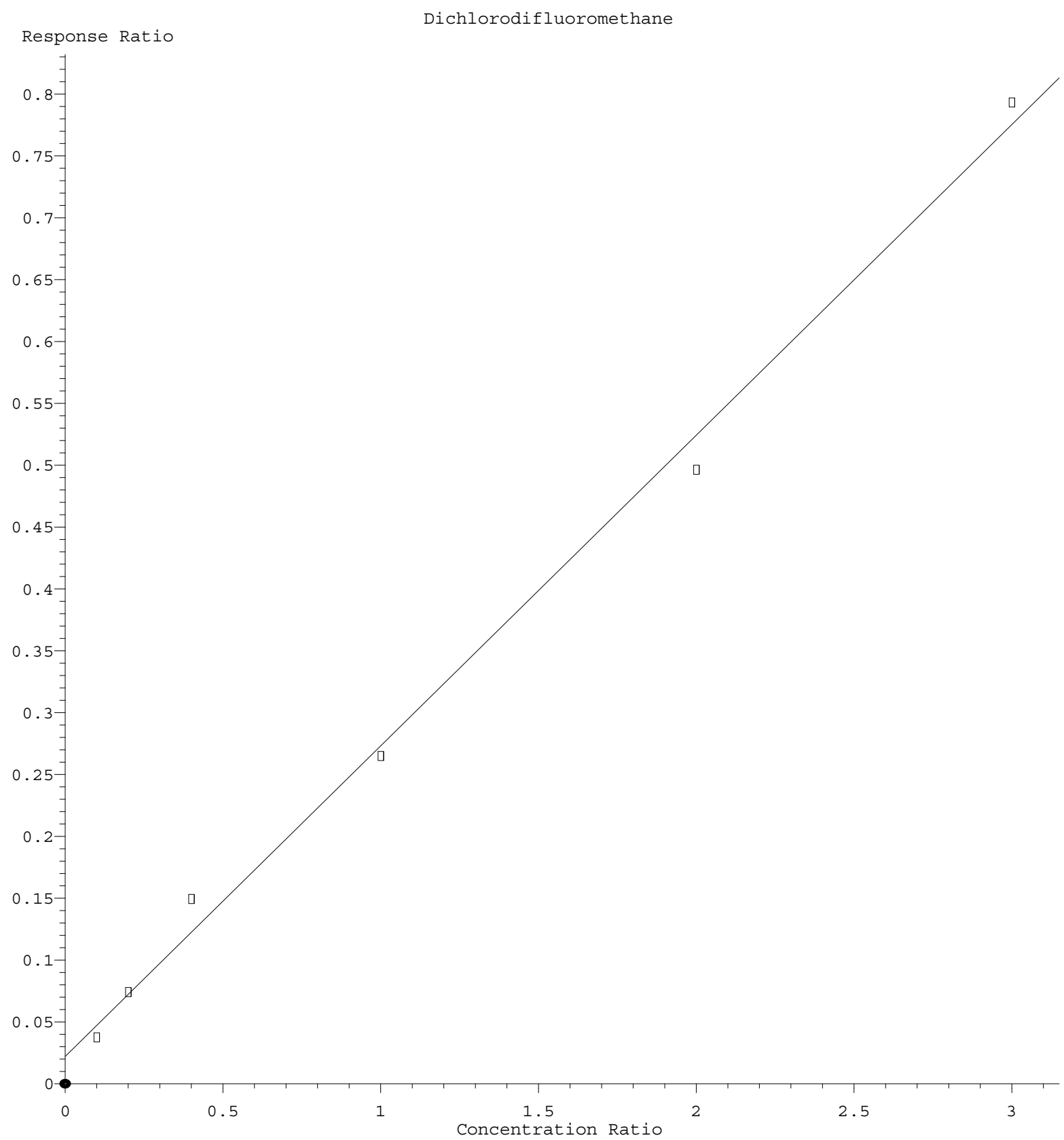
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y090924S.M

57)	T	1,3-Dichloropr...	0.346	0.398	0.389	0.394	0.360	0.376	0.377	5.42
58)	T	2-Chloroethyl ...	0.135	0.158	0.156	0.160	0.159	0.161	0.155	6.46
59)	T	2-Hexanone	0.131	0.166	0.158	0.163	0.149	0.152	0.153	8.22
60)	T	Dibromochlorom...	0.260	0.302	0.297	0.304	0.281	0.296	0.290	5.80
61)	T	1,2-Dibromoethane	0.188	0.216	0.211	0.212	0.195	0.204	0.204	5.46
62)	S	4-Bromofluorob...	0.425	0.414	0.407	0.400	0.385	0.389	0.403	3.77
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.315	0.319	0.313	0.312	0.291	0.307	0.310	3.23
65)	PM	Chlorobenzene	0.961	1.026	1.010	0.995	0.925	0.983	0.984	3.68
66)	T	1,1,1,2-Tetrac...	0.343	0.355	0.349	0.345	0.317	0.335	0.341	3.96
67)	C	Ethyl Benzene	1.739	1.856	1.796	1.769	1.626	1.701	1.748	4.55#
68)	T	m/p-Xylenes	0.656	0.688	0.682	0.670	0.620	0.650	0.661	3.75
69)	T	o-Xylene	0.646	0.673	0.667	0.656	0.601	0.635	0.646	4.04
70)	T	Styrene	1.061	1.143	1.126	1.112	1.031	1.073	1.091	3.90
71)	P	Bromoform	0.173	0.207	0.196	0.205	0.189	0.198	0.195	6.28
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.732	3.822	3.698	3.613	3.336	3.563	3.627	4.66
74)	T	N-amyl acetate	0.842	1.037	0.992	1.016	0.989	1.044	0.987	7.52
75)	P	1,1,2,2-Tetrac...	0.589	0.684	0.652	0.665	0.617	0.654	0.644	5.38
76)	T	1,2,3-Trichlor...	0.362	0.531	0.508	0.522	0.474	0.416	0.469	14.31
77)	T	Bromobenzene	0.795	0.826	0.817	0.813	0.763	0.812	0.804	2.83
78)	T	n-propylbenzene	4.445	4.468	4.433	4.301	3.952	4.197	4.299	4.63
79)	T	2-Chlorotoluene	2.564	2.604	2.557	2.508	2.310	2.490	2.506	4.16
80)	T	1,3,5-Trimethy...	3.005	3.066	3.042	2.965	2.721	2.895	2.949	4.31
81)	T	trans-1,4-Dich...	0.220	0.259	0.247	0.252	0.236	0.251	0.244	5.73
82)	T	4-Chlorotoluene	2.571	2.691	2.638	2.578	2.400	2.577	2.576	3.81
83)	T	tert-Butylbenzene	2.741	2.783	2.750	2.670	2.462	2.612	2.670	4.46
84)	T	1,2,4-Trimethy...	2.973	3.068	2.985	2.929	2.696	2.861	2.919	4.41
85)	T	sec-Butylbenzene	4.056	4.032	4.001	3.870	3.556	3.754	3.878	5.02
86)	T	p-Isopropyltol...	3.248	3.293	3.299	3.177	2.921	3.099	3.173	4.57
87)	T	1,3-Dichlorobe...	1.564	1.622	1.612	1.575	1.453	1.554	1.563	3.85
88)	T	1,4-Dichlorobe...	1.554	1.596	1.594	1.565	1.452	1.548	1.551	3.39
89)	T	n-Butylbenzene	3.077	3.155	3.127	3.039	2.808	2.994	3.033	4.12
90)	T	Hexachloroethane	0.658	0.675	0.684	0.661	0.613	0.671	0.660	3.82
91)	T	1,2-Dichlorobe...	1.367	1.448	1.414	1.422	1.315	1.404	1.395	3.40
92)	T	1,2-Dibromo-3-...	0.099	0.116	0.105	0.110	0.103	0.110	0.107	5.49
93)	T	1,2,4-Trichlor...	0.810	0.837	0.858	0.874	0.817	0.894	0.848	3.89
94)	T	Hexachlorobuta...	0.474	0.465	0.460	0.447	0.422	0.452	0.453	3.98
95)	T	Naphthalene	1.491	1.684	1.679	1.790	1.696	1.855	1.699	7.28
96)	T	1,2,3-Trichlor...	0.664	0.719	0.738	0.754	0.705	0.776	0.726	5.42

(#) = Out of Range



Response = 1.697e-002 * Amt + 5.158e-003
Coef of Det (r^2) = 0.992049 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y090924S.M
Calibration Table Last Updated: Mon Sep 09 16:00:30 2024



Response = 2.509e-001 * Amt + 2.238e-002
Coef of Det (r^2) = 0.995337 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y090924S.M
Calibration Table Last Updated: Mon Sep 09 16:00:30 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019454.D
Acq On : 09 Sep 2024 09:52
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 09 15:40:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	716947	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.610	114	1202321	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	999840	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	457730	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	30085	4.532	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	9.060%#		
35) Dibromofluoromethane	7.634	113	31706	4.651	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	9.300%#		
50) Toluene-d8	10.109	98	118500	4.700	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	9.400%#		
62) 4-Bromofluorobenzene	12.408	95	51049	5.265	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	10.540%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	26897	3.016	ug/l	96
3) Chloromethane	2.074	50	32718	5.516	ug/l	97
4) Vinyl Chloride	2.208	62	32318	5.039	ug/l	97
5) Bromomethane	2.599	94	18274	4.638	ug/l	88
6) Chloroethane	2.739	64	21523	5.150	ug/l	100
7) Trichlorofluoromethane	3.062	101	54502	5.097	ug/l	93
8) Diethyl Ether	3.452	74	16393	4.568	ug/l	89
9) 1,1,2-Trichlorotrifluo...	3.818	101	34174	5.167	ug/l	99
10) Methyl Iodide	4.001	142	41113	4.848	ug/l	95
11) Tert butyl alcohol	4.854	59	11963	22.313	ug/l #	85
12) 1,1-Dichloroethene	3.793	96	32778	5.153	ug/l	93
13) Acrolein	3.659	56	9222m	21.256	ug/l	
14) Allyl chloride	4.385	41	56929	4.991	ug/l #	85
15) Acrylonitrile	5.055	53	32664	21.107	ug/l #	91
16) Acetone	3.867	43	36630	23.160	ug/l	88
17) Carbon Disulfide	4.104	76	82031	4.773	ug/l	97
18) Methyl Acetate	4.385	43	20420	4.758	ug/l	92
19) Methyl tert-butyl Ether	5.110	73	82150	4.560	ug/l	98
20) Methylene Chloride	4.610	84	38537	5.343	ug/l	90
21) trans-1,2-Dichloroethene	5.110	96	34973	5.016	ug/l	94
22) Diisopropyl ether	6.019	45	109504	4.675	ug/l	95
23) Vinyl Acetate	5.952	43	290770	21.732	ug/l #	90
24) 1,1-Dichloroethane	5.909	63	63721	4.848	ug/l	99
25) 2-Butanone	6.890	43	48087	21.377	ug/l #	86
26) 2,2-Dichloropropane	6.878	77	58879	4.966	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	40754	4.812	ug/l	88
28) Bromochloromethane	7.244	49	26358	4.766	ug/l	86
29) Tetrahydrofuran	7.262	42	29069	21.254	ug/l	86
30) Chloroform	7.421	83	65189	4.858	ug/l	98
31) Cyclohexane	7.701	56	69472	5.847	ug/l #	73
32) 1,1,1-Trichloroethane	7.616	97	59176	4.920	ug/l	98
36) 1,1-Dichloropropene	7.835	75	46038	4.963	ug/l	100
37) Ethyl Acetate	6.982	43	19535	4.110	ug/l #	94
38) Carbon Tetrachloride	7.817	117	52877	5.055	ug/l	96
39) Methylcyclohexane	9.110	83	62951	5.100	ug/l	94
40) Benzene	8.079	78	140498	4.918	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019454.D
Acq On : 09 Sep 2024 09:52
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 09 15:40:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	11891	4.310	ug/l		89
42) 1,2-Dichloroethane	8.158	62	35673	4.640	ug/l		98
43) Isopropyl Acetate	8.195	43	44050	4.412	ug/l		94
44) Trichloroethene	8.866	130	36233	4.931	ug/l		99
45) 1,2-Dichloropropane	9.140	63	34556	4.947	ug/l		99
46) Dibromomethane	9.231	93	16612	4.349	ug/l		96
47) Bromodichloromethane	9.427	83	49710	4.842	ug/l		99
48) Methyl methacrylate	9.225	41	20407	4.328	ug/l		88
49) 1,4-Dioxane	9.231	88	3834	85.266	ug/l	#	68
51) 4-Methyl-2-Pentanone	10.000	43	108528	21.604	ug/l		91
52) Toluene	10.170	92	88727	4.829	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	43950	4.490	ug/l		96
54) cis-1,3-Dichloropropene	9.859	75	53386	4.684	ug/l	#	90
55) 1,1,2-Trichloroethane	10.573	97	25089	4.756	ug/l		99
56) Ethyl methacrylate	10.439	69	33782	4.216	ug/l	#	80
57) 1,3-Dichloropropane	10.719	76	41659	4.595	ug/l		97
58) 2-Chloroethyl Vinyl ether	9.713	63	80939	21.764	ug/l		97
59) 2-Hexanone	10.762	43	78769	21.388	ug/l		87
60) Dibromochloromethane	10.914	129	31262	4.480	ug/l		98
61) 1,2-Dibromoethane	11.018	107	22597	4.598	ug/l		95
64) Tetrachloroethene	10.652	164	31535	5.093	ug/l		96
65) Chlorobenzene	11.444	112	96113	4.887	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	34333	5.042	ug/l		97
67) Ethyl Benzene	11.518	91	173855	4.975	ug/l		99
68) m/p-Xylenes	11.633	106	131225	9.931	ug/l		94
69) o-Xylene	11.957	106	64623	5.001	ug/l		96
70) Styrene	11.969	104	106118	4.864	ug/l		95
71) Bromoform	12.133	173	17331	4.456	ug/l	#	98
73) Isopropylbenzene	12.255	105	170822	5.144	ug/l		100
74) N-amyl acetate	12.072	43	38548	4.268	ug/l		92
75) 1,1,2,2-Tetrachloroethane	12.505	83	26965	4.575	ug/l		97
76) 1,2,3-Trichloropropane	12.554	75	16550m	2.140	ug/l		
77) Bromobenzene	12.536	156	36405	4.943	ug/l		91
78) n-propylbenzene	12.597	91	203466	5.169	ug/l		100
79) 2-Chlorotoluene	12.682	91	117349	5.116	ug/l		97
80) 1,3,5-Trimethylbenzene	12.737	105	137538	5.095	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	10078	4.509	ug/l		92
82) 4-Chlorotoluene	12.780	91	117694	4.991	ug/l		98
83) tert-Butylbenzene	12.999	119	125450	5.133	ug/l		95
84) 1,2,4-Trimethylbenzene	13.042	105	136095	5.093	ug/l		96
85) sec-Butylbenzene	13.176	105	185653	5.229	ug/l		100
86) p-Isopropyltoluene	13.292	119	148678	5.118	ug/l		97
87) 1,3-Dichlorobenzene	13.292	146	71581	5.002	ug/l		97
88) 1,4-Dichlorobenzene	13.371	146	71127	5.008	ug/l		93
89) n-Butylbenzene	13.621	91	140833	5.072	ug/l		99
90) Hexachloroethane	13.883	117	30113	4.982	ug/l		96
91) 1,2-Dichlorobenzene	13.658	146	62568	4.899	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	4554	4.636	ug/l		80
93) 1,2,4-Trichlorobenzene	14.919	180	37074	4.773	ug/l		98
94) Hexachlorobutadiene	15.023	225	21691	5.228	ug/l		99
95) Naphthalene	15.145	128	68231	4.387	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	30382	4.573	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019454.D
Acq On : 09 Sep 2024 09:52
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 09 15:40:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 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

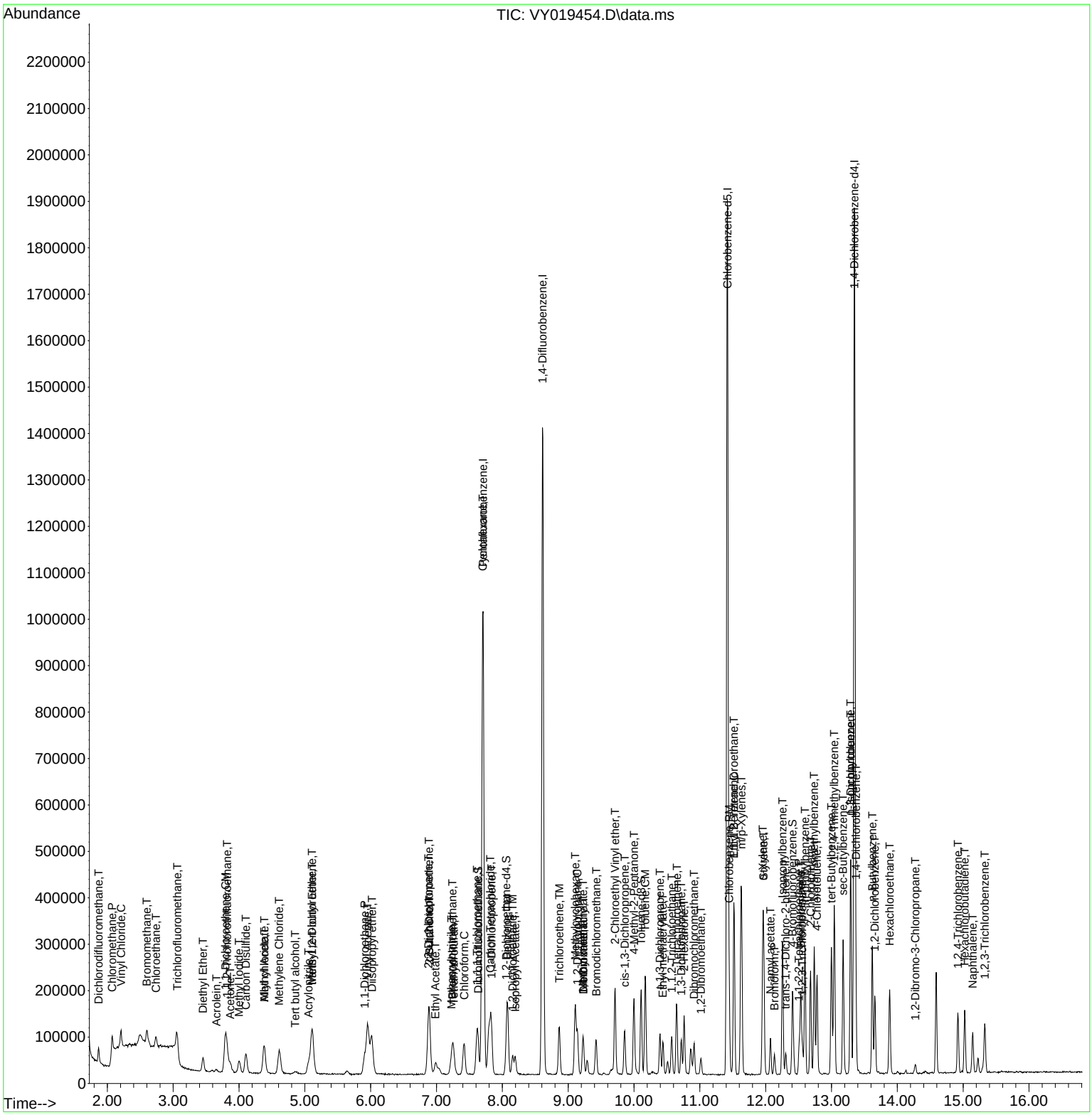
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019454.D
Acq On : 09 Sep 2024 09:52
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 15:40:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019455.D
Acq On : 09 Sep 2024 10:15
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 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 09 15:41:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	726111	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	1211414	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1017756	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	480192	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	67084	9.977	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	19.960%#		
35) Dibromofluoromethane	7.634	113	70610	10.280	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	20.560%#		
50) Toluene-d8	10.109	98	260015	10.235	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	20.460%#		
62) 4-Bromofluorobenzene	12.407	95	100287	10.266	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	20.540%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	53811	10.308	ug/l	99
3) Chloromethane	2.074	50	65972	10.982	ug/l	99
4) Vinyl Chloride	2.208	62	67693	10.421	ug/l	99
5) Bromomethane	2.598	94	40315	10.103	ug/l	96
6) Chloroethane	2.738	64	43953	10.385	ug/l	100
7) Trichlorofluoromethane	3.062	101	112608	10.399	ug/l	98
8) Diethyl Ether	3.452	74	37388	10.286	ug/l	88
9) 1,1,2-Trichlorotrifluo...	3.811	101	69684	10.403	ug/l	98
10) Methyl Iodide	4.000	142	88342	10.286	ug/l	97
11) Tert butyl alcohol	4.854	59	29300	53.961	ug/l #	76
12) 1,1-Dichloroethene	3.787	96	65188	10.119	ug/l	92
13) Acrolein	3.653	56	19459	62.432	ug/l	98
14) Allyl chloride	4.385	41	115748	10.019	ug/l #	91
15) Acrylonitrile	5.061	53	83030	52.977	ug/l	99
16) Acetone	3.866	43	82373	51.425	ug/l	88
17) Carbon Disulfide	4.104	76	168352	9.672	ug/l	99
18) Methyl Acetate	4.385	43	45642	10.500	ug/l	91
19) Methyl tert-butyl Ether	5.110	73	189298	10.375	ug/l	100
20) Methylene Chloride	4.616	84	76065	10.413	ug/l #	90
21) trans-1,2-Dichloroethene	5.110	96	70835	10.032	ug/l	96
22) Diisopropyl ether	6.018	45	245628	10.354	ug/l	94
23) Vinyl Acetate	5.957	43	710160	52.407	ug/l	94
24) 1,1-Dichloroethane	5.915	63	137281	10.312	ug/l	99
25) 2-Butanone	6.890	43	120690	52.977	ug/l #	85
26) 2,2-Dichloropropane	6.884	77	123039	10.246	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	85899	10.015	ug/l	90
28) Bromochloromethane	7.244	49	54147	9.667	ug/l	87
29) Tetrahydrofuran	7.262	42	74356	53.680	ug/l #	86
30) Chloroform	7.414	83	138283	10.175	ug/l	97
31) Cyclohexane	7.701	56	126835	10.541	ug/l #	93
32) 1,1,1-Trichloroethane	7.616	97	126070	10.350	ug/l	98
36) 1,1-Dichloropropene	7.835	75	96451	10.320	ug/l	99
37) Ethyl Acetate	6.982	43	50850	10.619	ug/l #	96
38) Carbon Tetrachloride	7.817	117	109330	10.373	ug/l	99
39) Methylcyclohexane	9.109	83	129027	10.374	ug/l	91
40) Benzene	8.079	78	299333	10.398	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019455.D
Acq On : 09 Sep 2024 10:15
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 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 09 15:41:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	27509	9.897	ug/l		91
42) 1,2-Dichloroethane	8.158	62	81404	10.509	ug/l		98
43) Isopropyl Acetate	8.195	43	105512	10.488	ug/l		90
44) Trichloroethene	8.865	130	74932	10.121	ug/l		96
45) 1,2-Dichloropropane	9.140	63	72907	10.360	ug/l		99
46) Dibromomethane	9.231	93	40670	10.568	ug/l		96
47) Bromodichloromethane	9.426	83	107840	10.424	ug/l		96
48) Methyl methacrylate	9.219	41	50051	10.535	ug/l		86
49) 1,4-Dioxane	9.231	88	10115	223.264	ug/l	#	99
51) 4-Methyl-2-Pentanone	9.999	43	272451	53.829	ug/l		92
52) Toluene	10.170	92	192158	10.379	ug/l		97
53) t-1,3-Dichloropropene	10.396	75	102769	10.421	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	118970	10.361	ug/l	#	88
55) 1,1,2-Trichloroethane	10.572	97	54984	10.346	ug/l		99
56) Ethyl methacrylate	10.438	69	84283	10.440	ug/l	#	83
57) 1,3-Dichloropropane	10.719	76	96334	10.545	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	191347	51.066	ug/l		99
59) 2-Hexanone	10.761	43	200666	54.078	ug/l		89
60) Dibromochloromethane	10.914	129	73287	10.424	ug/l		100
61) 1,2-Dibromoethane	11.017	107	52418	10.586	ug/l		99
64) Tetrachloroethene	10.646	164	65012	10.315	ug/l		97
65) Chlorobenzene	11.444	112	208930	10.436	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.517	131	72224	10.420	ug/l		98
67) Ethyl Benzene	11.517	91	377729	10.619	ug/l		99
68) m/p-Xylenes	11.627	106	279962	20.814	ug/l		93
69) o-Xylene	11.956	106	136920	10.409	ug/l		95
70) Styrene	11.969	104	232585	10.472	ug/l		96
71) Bromoform	12.133	173	42109	10.636	ug/l	#	98
73) Isopropylbenzene	12.255	105	367076	10.537	ug/l		99
74) N-amyl acetate	12.072	43	99558	10.508	ug/l	#	88
75) 1,1,2,2-Tetrachloroethane	12.505	83	65734	10.631	ug/l		95
76) 1,2,3-Trichloropropane	12.560	75	50978m	6.283	ug/l		
77) Bromobenzene	12.535	156	79317	10.266	ug/l		91
78) n-propylbenzene	12.596	91	429133	10.393	ug/l		100
79) 2-Chlorotoluene	12.682	91	250098	10.393	ug/l		95
80) 1,3,5-Trimethylbenzene	12.737	105	294430	10.396	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.304	75	24887	10.615	ug/l		96
82) 4-Chlorotoluene	12.779	91	258459	10.448	ug/l		96
83) tert-Butylbenzene	12.999	119	267290	10.425	ug/l		96
84) 1,2,4-Trimethylbenzene	13.041	105	294687	10.512	ug/l		97
85) sec-Butylbenzene	13.176	105	387215	10.396	ug/l		99
86) p-Isopropyltoluene	13.291	119	316287	10.379	ug/l		97
87) 1,3-Dichlorobenzene	13.291	146	155736	10.373	ug/l		98
88) 1,4-Dichlorobenzene	13.365	146	153248	10.286	ug/l		95
89) n-Butylbenzene	13.621	91	303046	10.403	ug/l		99
90) Hexachloroethane	13.883	117	64797	10.219	ug/l		96
91) 1,2-Dichlorobenzene	13.657	146	139073	10.381	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	11120	10.791	ug/l		84
93) 1,2,4-Trichlorobenzene	14.919	180	80337	9.859	ug/l		98
94) Hexachlorobutadiene	15.023	225	44697	10.268	ug/l		99
95) Naphthalene	15.145	128	161707	9.910	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	69042	9.906	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019455.D
Acq On : 09 Sep 2024 10:15
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 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 09 15:41:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 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

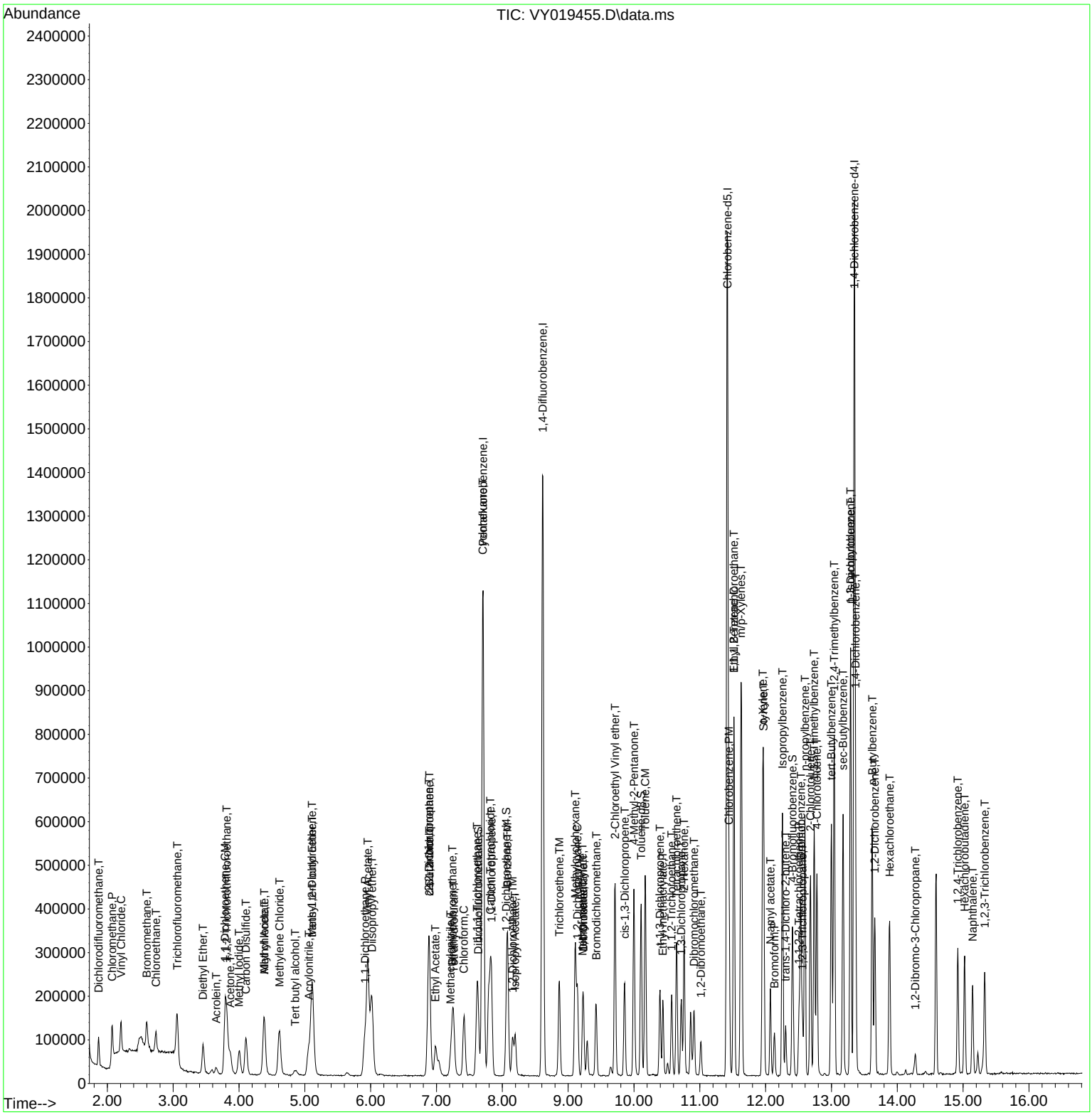
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019455.D
Acq On : 09 Sep 2024 10:15
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 09 15:41:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019456.D
Acq On : 09 Sep 2024 10:44
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 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 09 15:41:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	665550	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	1121753	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	957561	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	453621	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	124162	20.147	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	40.300%#		
35) Dibromofluoromethane	7.634	113	128968	20.278	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	40.560%#		
50) Toluene-d8	10.109	98	473505	20.128	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	40.260%#		
62) 4-Bromofluorobenzene	12.408	95	182751	20.204	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	40.400%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	99403	25.303	ug/l	99
3) Chloromethane	2.068	50	117711	21.377	ug/l	96
4) Vinyl Chloride	2.202	62	126602	21.262	ug/l	96
5) Bromomethane	2.599	94	72706	19.879	ug/l	98
6) Chloroethane	2.739	64	79590	20.516	ug/l	96
7) Trichlorofluoromethane	3.062	101	206614	20.816	ug/l	100
8) Diethyl Ether	3.458	74	67340	20.212	ug/l	82
9) 1,1,2-Trichlorotrifluo...	3.818	101	126671	20.630	ug/l	97
10) Methyl Iodide	4.001	142	161193	20.476	ug/l	96
11) Tert butyl alcohol	4.866	59	47589	95.618	ug/l #	87
12) 1,1-Dichloroethene	3.787	96	119800	20.288	ug/l	86
13) Acrolein	3.653	56	33464	131.811	ug/l	98
14) Allyl chloride	4.385	41	217660	20.555	ug/l #	89
15) Acrylonitrile	5.061	53	144091	100.302	ug/l	98
16) Acetone	3.873	43	141676	96.496	ug/l	92
17) Carbon Disulfide	4.104	76	309177	19.379	ug/l	99
18) Methyl Acetate	4.379	43	74264	18.639	ug/l	94
19) Methyl tert-butyl Ether	5.116	73	344458	20.597	ug/l	99
20) Methylene Chloride	4.610	84	136679	20.413	ug/l	90
21) trans-1,2-Dichloroethene	5.110	96	128976	19.927	ug/l	87
22) Diisopropyl ether	6.019	45	448881	20.643	ug/l	93
23) Vinyl Acetate	5.958	43	1288987	103.778	ug/l	93
24) 1,1-Dichloroethane	5.915	63	249233	20.425	ug/l	97
25) 2-Butanone	6.890	43	211780	101.419	ug/l	89
26) 2,2-Dichloropropane	6.884	77	226121	20.544	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	160242	20.382	ug/l	90
28) Bromochloromethane	7.244	49	100505	19.576	ug/l	87
29) Tetrahydrofuran	7.262	42	125544	98.882	ug/l	87
30) Chloroform	7.421	83	254025	20.393	ug/l	99
31) Cyclohexane	7.701	56	218114	19.776	ug/l	94
32) 1,1,1-Trichloroethane	7.616	97	226461	20.283	ug/l	97
36) 1,1-Dichloropropene	7.835	75	175223	20.247	ug/l	98
37) Ethyl Acetate	6.982	43	91113	20.548	ug/l	96
38) Carbon Tetrachloride	7.817	117	198006	20.289	ug/l	99
39) Methylcyclohexane	9.110	83	230822	20.042	ug/l	90
40) Benzene	8.079	78	543507	20.390	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019456.D
Acq On : 09 Sep 2024 10:44
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 09 15:41:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	56708	22.033	ug/l	#	80
42) 1,2-Dichloroethane	8.159	62	145710	20.315	ug/l		98
43) Isopropyl Acetate	8.195	43	191757	20.584	ug/l		91
44) Trichloroethene	8.866	130	141307	20.613	ug/l		96
45) 1,2-Dichloropropane	9.140	63	134303	20.609	ug/l		99
46) Dibromomethane	9.231	93	72823	20.435	ug/l		97
47) Bromodichloromethane	9.427	83	193440	20.193	ug/l		98
48) Methyl methacrylate	9.219	41	88240	20.058	ug/l	#	86
49) 1,4-Dioxane	9.238	88	16135	384.607	ug/l	#	97
51) 4-Methyl-2-Pentanone	10.000	43	479708	102.353	ug/l		92
52) Toluene	10.170	92	347634	20.278	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	186789	20.455	ug/l		94
54) cis-1,3-Dichloropropene	9.859	75	217694	20.473	ug/l	#	88
55) 1,1,2-Trichloroethane	10.573	97	98373	19.989	ug/l		94
56) Ethyl methacrylate	10.439	69	152995	20.466	ug/l	#	83
57) 1,3-Dichloropropane	10.719	76	174365	20.612	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	348996	100.584	ug/l		98
59) 2-Hexanone	10.762	43	354675	103.222	ug/l		89
60) Dibromochloromethane	10.914	129	133200	20.461	ug/l		99
61) 1,2-Dibromoethane	11.018	107	94823	20.680	ug/l		98
64) Tetrachloroethene	10.646	164	119858	20.213	ug/l		96
65) Chlorobenzene	11.445	112	386770	20.534	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	133506	20.471	ug/l		99
67) Ethyl Benzene	11.524	91	687798	20.551	ug/l		99
68) m/p-Xylenes	11.627	106	522199	41.264	ug/l		95
69) o-Xylene	11.957	106	255394	20.636	ug/l		97
70) Styrene	11.969	104	431131	20.633	ug/l		96
71) Bromoform	12.133	173	75040	20.145	ug/l	#	99
73) Isopropylbenzene	12.255	105	670980	20.389	ug/l		100
74) N-amyl acetate	12.072	43	179945	20.105	ug/l	#	89
75) 1,1,2,2-Tetrachloroethane	12.505	83	118390	20.268	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	92192m	12.028	ug/l		
77) Bromobenzene	12.536	156	148307	20.320	ug/l		91
78) n-propylbenzene	12.597	91	804313	20.620	ug/l		100
79) 2-Chlorotoluene	12.682	91	463988	20.412	ug/l		96
80) 1,3,5-Trimethylbenzene	12.737	105	552010	20.633	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.304	75	44799	20.227	ug/l		96
82) 4-Chlorotoluene	12.780	91	478747	20.486	ug/l		96
83) tert-Butylbenzene	12.999	119	498976	20.602	ug/l		95
84) 1,2,4-Trimethylbenzene	13.048	105	541658	20.454	ug/l		97
85) sec-Butylbenzene	13.176	105	725918	20.632	ug/l		100
86) p-Isopropyltoluene	13.292	119	598661	20.796	ug/l		97
87) 1,3-Dichlorobenzene	13.292	146	292543	20.627	ug/l		97
88) 1,4-Dichlorobenzene	13.371	146	289216	20.548	ug/l		96
89) n-Butylbenzene	13.621	91	567458	20.620	ug/l		99
90) Hexachloroethane	13.883	117	124187	20.733	ug/l		94
91) 1,2-Dichlorobenzene	13.658	146	256551	20.271	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	19074	19.593	ug/l		86
93) 1,2,4-Trichlorobenzene	14.919	180	155761	20.236	ug/l		97
94) Hexachlorobutadiene	15.023	225	83391	20.280	ug/l		98
95) Naphthalene	15.145	128	304693	19.767	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	133851	20.330	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019456.D
Acq On : 09 Sep 2024 10:44
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 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 09 15:41:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 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

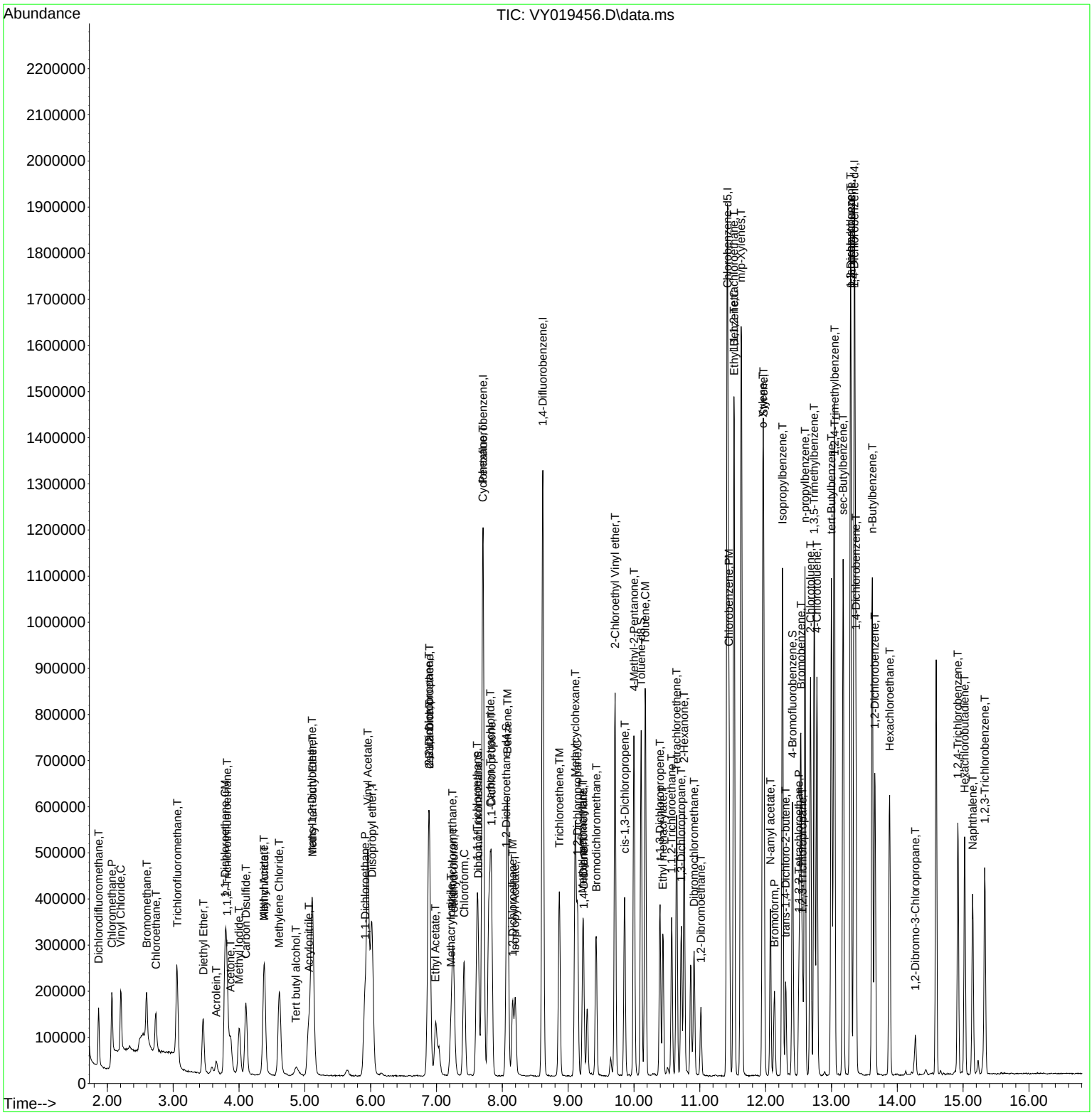
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019456.D
Acq On : 09 Sep 2024 10:44
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 09 15:41:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019457.D
Acq On : 09 Sep 2024 11:07
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 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 09 15:41:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	671645	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	1151482	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	990901	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	468543	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	325562	52.347	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.700%			
35) Dibromofluoromethane	7.634	113	334500	51.235	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.480%			
50) Toluene-d8	10.109	98	1248578	51.705	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.420%			
62) 4-Bromofluorobenzene	12.407	95	460690	49.616	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 99.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.866	85	177927	48.332	ug/l	98
3) Chloromethane	2.068	50	263436	47.407	ug/l	96
4) Vinyl Chloride	2.208	62	300397	49.993	ug/l	97
5) Bromomethane	2.598	94	190288	51.556	ug/l	100
6) Chloroethane	2.738	64	199185	50.879	ug/l	97
7) Trichlorofluoromethane	3.061	101	492607	49.180	ug/l	97
8) Diethyl Ether	3.458	74	177039	52.655	ug/l	87
9) 1,1,2-Trichlorotrifluo...	3.811	101	307217	49.581	ug/l	98
10) Methyl Iodide	4.006	142	410641	51.691	ug/l	95
11) Tert butyl alcohol	4.860	59	133972	266.740	ug/l #	83
12) 1,1-Dichloroethene	3.787	96	300478	50.425	ug/l	90
13) Acrolein	3.653	56	53474	218.490	ug/l	97
14) Allyl chloride	4.384	41	545476	51.045	ug/l #	90
15) Acrylonitrile	5.055	53	388791	268.181	ug/l	100
16) Acetone	3.872	43	416426	281.055	ug/l	89
17) Carbon Disulfide	4.104	76	861932	53.535	ug/l	100
18) Methyl Acetate	4.384	43	231482	57.570	ug/l	90
19) Methyl tert-butyl Ether	5.116	73	881716	52.243	ug/l	98
20) Methylene Chloride	4.616	84	337482	49.945	ug/l #	88
21) trans-1,2-Dichloroethene	5.110	96	336065	51.453	ug/l	87
22) Diisopropyl ether	6.018	45	1139270	51.916	ug/l	94
23) Vinyl Acetate	5.957	43	3249662	259.260	ug/l	94
24) 1,1-Dichloroethane	5.915	63	634644	51.539	ug/l	98
25) 2-Butanone	6.890	43	572622	271.734	ug/l	88
26) 2,2-Dichloropropane	6.884	77	561856	50.583	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	411602	51.878	ug/l	89
28) Bromochloromethane	7.244	49	275688	53.211	ug/l	87
29) Tetrahydrofuran	7.262	42	345791	269.883	ug/l	86
30) Chloroform	7.420	83	649656	51.681	ug/l	99
31) Cyclohexane	7.701	56	539100	48.435	ug/l	94
32) 1,1,1-Trichloroethane	7.615	97	572756	50.833	ug/l	97
36) 1,1-Dichloropropene	7.835	75	453738	51.075	ug/l	98
37) Ethyl Acetate	6.981	43	242374	53.248	ug/l	95
38) Carbon Tetrachloride	7.817	117	502945	50.204	ug/l	98
39) Methylcyclohexane	9.109	83	594139	50.256	ug/l	91
40) Benzene	8.079	78	1395546	51.003	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019457.D
Acq On : 09 Sep 2024 11:07
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 09 15:41:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	150678	57.032	ug/l	#	81
42) 1,2-Dichloroethane	8.158	62	380145	51.631	ug/l		97
43) Isopropyl Acetate	8.195	43	498715	52.151	ug/l		91
44) Trichloroethene	8.865	130	359266	51.054	ug/l		95
45) 1,2-Dichloropropane	9.140	63	338213	50.560	ug/l		98
46) Dibromomethane	9.231	93	193226	52.822	ug/l		98
47) Bromodichloromethane	9.426	83	502875	51.140	ug/l		97
48) Methyl methacrylate	9.219	41	244302	54.098	ug/l	#	85
49) 1,4-Dioxane	9.231	88	44544	1034.375	ug/l	#	85
51) 4-Methyl-2-Pentanone	9.999	43	1277824	265.603	ug/l		92
52) Toluene	10.170	92	909855	51.703	ug/l		97
53) t-1,3-Dichloropropene	10.395	75	490362	52.313	ug/l		97
54) cis-1,3-Dichloropropene	9.859	75	566612	51.912	ug/l	#	91
55) 1,1,2-Trichloroethane	10.572	97	266168	52.689	ug/l		98
56) Ethyl methacrylate	10.438	69	400248	52.158	ug/l	#	83
57) 1,3-Dichloropropane	10.719	76	454057	52.290	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	920624	258.483	ug/l		98
59) 2-Hexanone	10.761	43	940235	266.573	ug/l		90
60) Dibromochloromethane	10.914	129	350541	52.457	ug/l		99
61) 1,2-Dibromoethane	11.017	107	244635	51.974	ug/l		99
64) Tetrachloroethene	10.651	164	309179	50.386	ug/l		97
65) Chlorobenzene	11.444	112	986318	50.602	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.517	131	342177	50.703	ug/l		99
67) Ethyl Benzene	11.523	91	1752692	50.607	ug/l		99
68) m/p-Xylenes	11.633	106	1327314	101.355	ug/l		94
69) o-Xylene	11.956	106	649941	50.748	ug/l		96
70) Styrene	11.968	104	1102115	50.969	ug/l		96
71) Bromoform	12.133	173	202736	52.596	ug/l	#	96
73) Isopropylbenzene	12.255	105	1692789	49.801	ug/l		99
74) N-amyl acetate	12.072	43	476107	51.502	ug/l	#	89
75) 1,1,2,2-Tetrachloroethane	12.511	83	311775	51.676	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	244432m	30.876	ug/l		
77) Bromobenzene	12.535	156	381103	50.552	ug/l		90
78) n-propylbenzene	12.596	91	2015036	50.015	ug/l		100
79) 2-Chlorotoluene	12.682	91	1175309	50.057	ug/l		96
80) 1,3,5-Trimethylbenzene	12.736	105	1389236	50.274	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	117913	51.543	ug/l		96
82) 4-Chlorotoluene	12.779	91	1207673	50.031	ug/l		96
83) tert-Butylbenzene	12.999	119	1250950	50.005	ug/l		95
84) 1,2,4-Trimethylbenzene	13.047	105	1372557	50.178	ug/l		97
85) sec-Butylbenzene	13.175	105	1813360	49.897	ug/l		100
86) p-Isopropyltoluene	13.291	119	1488630	50.065	ug/l		97
87) 1,3-Dichlorobenzene	13.291	146	737728	50.361	ug/l		97
88) 1,4-Dichlorobenzene	13.371	146	733165	50.431	ug/l		97
89) n-Butylbenzene	13.620	91	1423688	50.085	ug/l		99
90) Hexachloroethane	13.883	117	309590	50.041	ug/l		95
91) 1,2-Dichlorobenzene	13.657	146	666398	50.979	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	51627	51.343	ug/l		87
93) 1,2,4-Trichlorobenzene	14.919	180	409473	51.503	ug/l		98
94) Hexachlorobutadiene	15.023	225	209448	49.313	ug/l		98
95) Naphthalene	15.145	128	838543	52.667	ug/l		99
96) 1,2,3-Trichlorobenzene	15.327	180	353096	51.921	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019457.D
Acq On : 09 Sep 2024 11:07
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 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 09 15:41:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 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

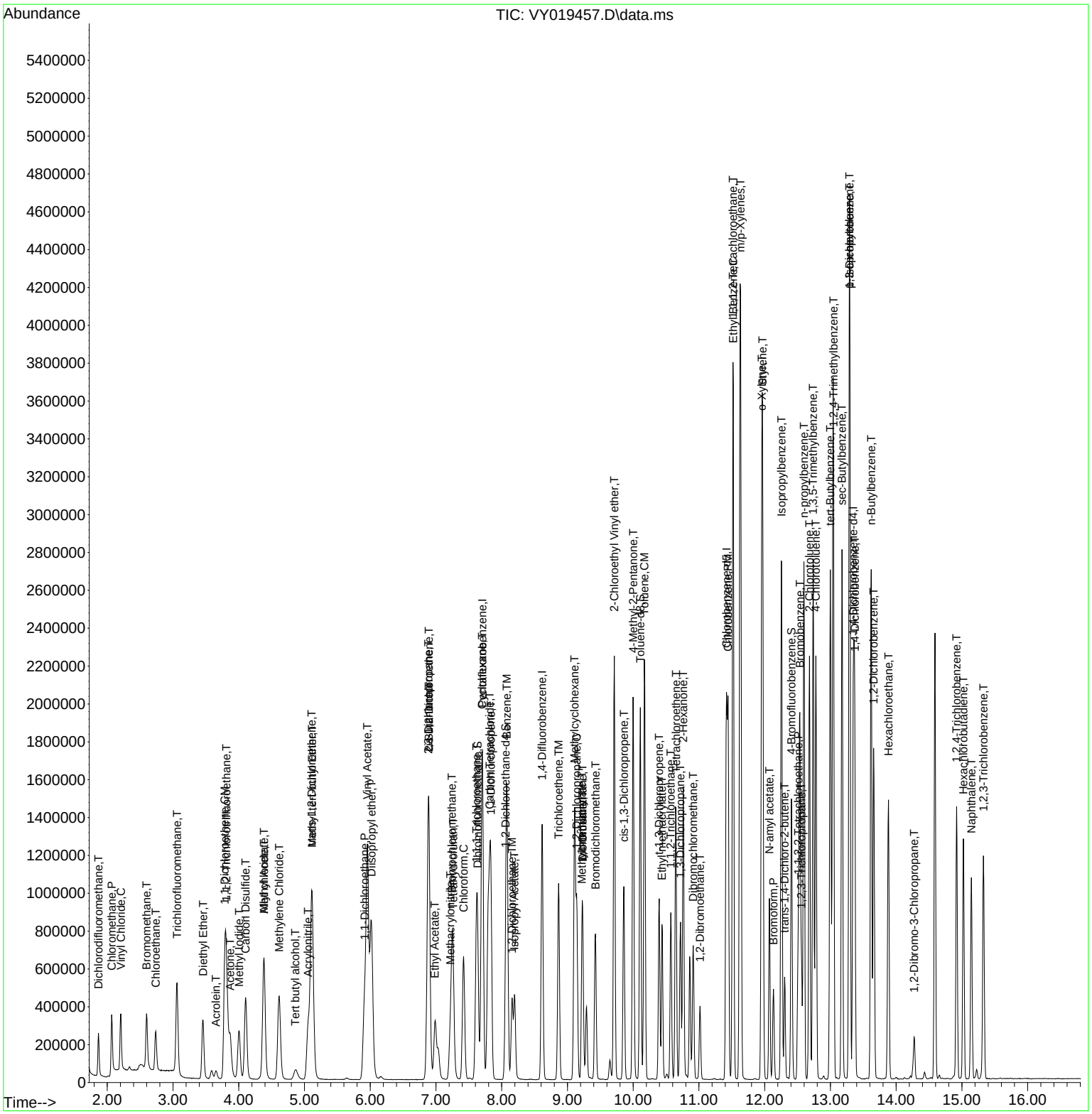
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019457.D
Acq On : 09 Sep 2024 11:07
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 09 15:41:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019458.D
Acq On : 09 Sep 2024 11:29
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 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 09 15:42:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	685750	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	1168478	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1004968	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	472280	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	638365	100.532	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 201.060%#			
35) Dibromofluoromethane	7.634	113	653139	98.586	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 197.180%#			
50) Toluene-d8	10.109	98	2413329	98.485	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 196.980%#			
62) 4-Bromofluorobenzene	12.408	95	898819	95.394	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 190.780%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	340330	94.441	ug/l	99
3) Chloromethane	2.068	50	489892	86.346	ug/l	99
4) Vinyl Chloride	2.202	62	561518	91.527	ug/l	99
5) Bromomethane	2.592	94	368392	97.758	ug/l	99
6) Chloroethane	2.733	64	369866	92.534	ug/l	98
7) Trichlorofluoromethane	3.056	101	940579	91.972	ug/l	96
8) Diethyl Ether	3.452	74	331322	96.515	ug/l	87
9) 1,1,2-Trichlorotrifluo...	3.812	101	582499	92.075	ug/l	98
10) Methyl Iodide	4.001	142	763879	94.178	ug/l	95
11) Tert butyl alcohol	4.873	59	251847	491.117	ug/l #	82
12) 1,1-Dichloroethene	3.787	96	565934	93.018	ug/l	88
13) Acrolein	3.653	56	114506	476.617	ug/l	98
14) Allyl chloride	4.379	41	1023858	93.840	ug/l #	90
15) Acrylonitrile	5.055	53	731764	494.376	ug/l	99
16) Acetone	3.873	43	732787	484.401	ug/l	88
17) Carbon Disulfide	4.104	76	1614117	98.192	ug/l	97
18) Methyl Acetate	4.385	43	388064	94.527	ug/l	90
19) Methyl tert-butyl Ether	5.110	73	1662742	96.494	ug/l	100
20) Methylene Chloride	4.610	84	625602	90.681	ug/l	89
21) trans-1,2-Dichloroethene	5.110	96	631722	94.729	ug/l	90
22) Diisopropyl ether	6.013	45	2134144	95.252	ug/l	92
23) Vinyl Acetate	5.958	43	6270248	489.955	ug/l	94
24) 1,1-Dichloroethane	5.915	63	1182564	94.059	ug/l	97
25) 2-Butanone	6.890	43	1053151	489.487	ug/l #	87
26) 2,2-Dichloropropane	6.884	77	1058236	93.312	ug/l	98
27) cis-1,2-Dichloroethene	6.884	96	773801	95.524	ug/l	90
28) Bromochloromethane	7.244	49	525914	99.419	ug/l	86
29) Tetrahydrofuran	7.262	42	644869	492.955	ug/l	86
30) Chloroform	7.421	83	1214147	94.600	ug/l	97
31) Cyclohexane	7.701	56	1008417	88.736	ug/l	93
32) 1,1,1-Trichloroethane	7.616	97	1082258	94.077	ug/l	98
36) 1,1-Dichloropropene	7.835	75	848068	94.075	ug/l	98
37) Ethyl Acetate	6.982	43	459727	99.530	ug/l	96
38) Carbon Tetrachloride	7.817	117	952971	93.742	ug/l	100
39) Methylcyclohexane	9.110	83	1123498	93.650	ug/l	90
40) Benzene	8.079	78	2612213	94.079	ug/l	99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019458.D
Acq On : 09 Sep 2024 11:29
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 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 09 15:42:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.214	41	249665	93.124	ug/l		88
42) 1,2-Dichloroethane	8.159	62	716319	95.874	ug/l		97
43) Isopropyl Acetate	8.195	43	949532	97.849	ug/l		90
44) Trichloroethene	8.866	130	673901	94.372	ug/l		95
45) 1,2-Dichloropropane	9.140	63	637446	93.907	ug/l		97
46) Dibromomethane	9.231	93	361035	97.260	ug/l		97
47) Bromodichloromethane	9.427	83	953010	95.508	ug/l		97
48) Methyl methacrylate	9.219	41	448215	97.809	ug/l		85
49) 1,4-Dioxane	9.231	88	88280	2020.169	ug/l	#	87
51) 4-Methyl-2-Pentanone	10.000	43	2376837	486.854	ug/l		93
52) Toluene	10.170	92	1693220	94.818	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	918959	96.610	ug/l		97
54) cis-1,3-Dichloropropene	9.859	75	1058726	95.588	ug/l	#	89
55) 1,1,2-Trichloroethane	10.573	97	492091	95.995	ug/l		97
56) Ethyl methacrylate	10.439	69	779057	100.045	ug/l	#	83
57) 1,3-Dichloropropane	10.719	76	840592	95.396	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	1855345	513.347	ug/l		98
59) 2-Hexanone	10.762	43	1738444	485.710	ug/l		90
60) Dibromochloromethane	10.914	129	657600	96.975	ug/l		99
61) 1,2-Dibromoethane	11.018	107	454780	95.215	ug/l		99
64) Tetrachloroethene	10.646	164	584759	93.963	ug/l		94
65) Chlorobenzene	11.445	112	1860115	94.096	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	636303	92.966	ug/l		99
67) Ethyl Benzene	11.518	91	3267501	93.025	ug/l		98
68) m/p-Xylenes	11.627	106	2491636	187.601	ug/l		96
69) o-Xylene	11.957	106	1207678	92.977	ug/l		95
70) Styrene	11.969	104	2072863	94.521	ug/l		96
71) Bromoform	12.133	173	379422	97.055	ug/l	#	98
73) Isopropylbenzene	12.255	105	3151247	91.974	ug/l		99
74) N-amyl acetate	12.072	43	933967	100.230	ug/l	#	88
75) 1,1,2,2-Tetrachloroethane	12.505	83	582993	95.864	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	447506m	56.080	ug/l		
77) Bromobenzene	12.536	156	720478	94.813	ug/l		90
78) n-propylbenzene	12.597	91	3733224	91.928	ug/l		99
79) 2-Chlorotoluene	12.682	91	2181941	92.195	ug/l		97
80) 1,3,5-Trimethylbenzene	12.737	105	2569796	92.260	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.304	75	222856	96.647	ug/l		96
82) 4-Chlorotoluene	12.780	91	2267214	93.182	ug/l		96
83) tert-Butylbenzene	12.999	119	2325454	92.221	ug/l		96
84) 1,2,4-Trimethylbenzene	13.042	105	2546828	92.371	ug/l		98
85) sec-Butylbenzene	13.176	105	3359129	91.699	ug/l		100
86) p-Isopropyltoluene	13.292	119	2758918	92.053	ug/l		97
87) 1,3-Dichlorobenzene	13.286	146	1372862	92.976	ug/l		97
88) 1,4-Dichlorobenzene	13.371	146	1371578	93.598	ug/l		97
89) n-Butylbenzene	13.621	91	2652073	92.562	ug/l		98
90) Hexachloroethane	13.883	117	578664	92.793	ug/l		96
91) 1,2-Dichlorobenzene	13.658	146	1241825	94.246	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	97261	95.961	ug/l		87
93) 1,2,4-Trichlorobenzene	14.919	180	772058	96.339	ug/l		98
94) Hexachlorobutadiene	15.023	225	398638	93.114	ug/l		99
95) Naphthalene	15.145	128	1602386	99.846	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	665605	97.100	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019458.D
Acq On : 09 Sep 2024 11:29
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 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 09 15:42:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

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

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

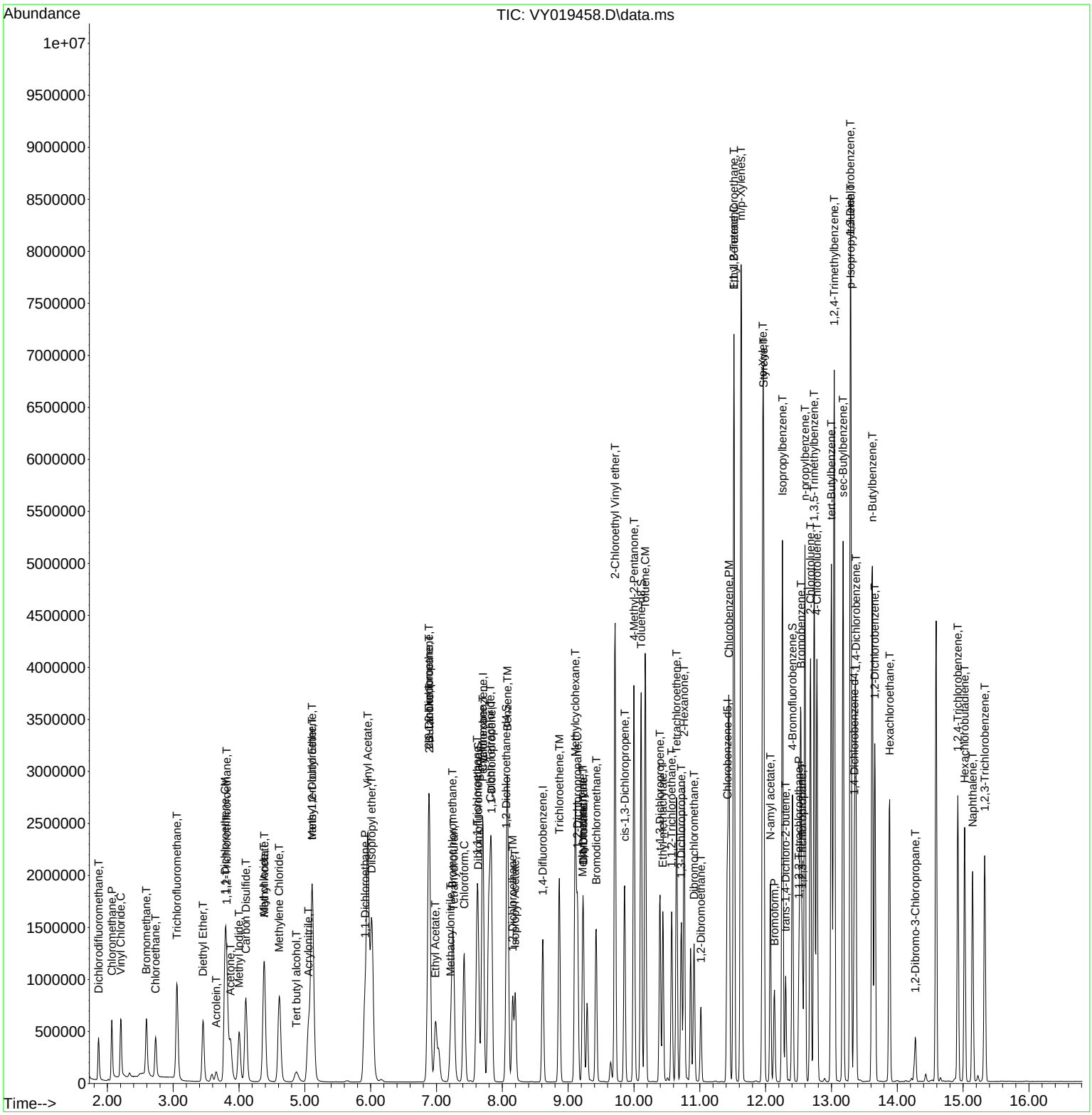
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019458.D
Acq On : 09 Sep 2024 11:29
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 09 15:42:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019459.D
Acq On : 09 Sep 2024 11:53
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 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 09 15:42:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	645419	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	1107557	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	947482	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	435128	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	929022	155.448	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 310.900%#			
35) Dibromofluoromethane	7.634	113	958254	152.597	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 305.200%#			
50) Toluene-d8	10.109	98	3523138	151.683	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 303.360%#			
62) 4-Bromofluorobenzene	12.408	95	1291176	144.573	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 289.140%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	511912	153.600	ug/l	98
3) Chloromethane	2.068	50	735523	137.740	ug/l	97
4) Vinyl Chloride	2.208	62	841865	145.798	ug/l	99
5) Bromomethane	2.592	94	563600	158.904	ug/l	99
6) Chloroethane	2.732	64	554682	147.444	ug/l	98
7) Trichlorofluoromethane	3.056	101	1438666	149.467	ug/l	97
8) Diethyl Ether	3.452	74	498721	154.358	ug/l	87
9) 1,1,2-Trichlorotrifluo...	3.812	101	877506	147.374	ug/l	98
10) Methyl Iodide	4.001	142	1147764	150.349	ug/l	96
11) Tert butyl alcohol	4.866	59	370262	767.152	ug/l #	82
12) 1,1-Dichloroethene	3.787	96	862734	150.662	ug/l	90
13) Acrolein	3.653	56	172160	771.380	ug/l	98
14) Allyl chloride	4.379	41	1560254	151.939	ug/l #	90
15) Acrylonitrile	5.055	53	1077939	773.757	ug/l	99
16) Acetone	3.873	43	1054082	740.331	ug/l	88
17) Carbon Disulfide	4.104	76	2452023	158.486	ug/l	98
18) Methyl Acetate	4.379	43	562135	145.485	ug/l	91
19) Methyl tert-butyl Ether	5.110	73	2459217	151.634	ug/l	99
20) Methylene Chloride	4.610	84	938737	144.572	ug/l	88
21) trans-1,2-Dichloroethene	5.110	96	961147	153.134	ug/l	89
22) Diisopropyl ether	6.012	45	3184283	151.004	ug/l	93
23) Vinyl Acetate	5.957	43	9285220	770.882	ug/l	95
24) 1,1-Dichloroethane	5.909	63	1786678	150.990	ug/l	98
25) 2-Butanone	6.890	43	1526745	753.947	ug/l	88
26) 2,2-Dichloropropane	6.884	77	1617426	151.532	ug/l	98
27) cis-1,2-Dichloroethene	6.884	96	1171360	153.637	ug/l	90
28) Bromochloromethane	7.244	49	778867	156.438	ug/l	87
29) Tetrahydrofuran	7.262	42	943707	766.473	ug/l	86
30) Chloroform	7.421	83	1832867	151.732	ug/l	99
31) Cyclohexane	7.701	56	1494747	139.750	ug/l	91
32) 1,1,1-Trichloroethane	7.616	97	1639371	151.410	ug/l	97
36) 1,1-Dichloropropene	7.835	75	1282693	150.114	ug/l	98
37) Ethyl Acetate	6.982	43	675387	154.263	ug/l	95
38) Carbon Tetrachloride	7.817	117	1439147	149.354	ug/l	99
39) Methylcyclohexane	9.109	83	1703946	149.846	ug/l	91
40) Benzene	8.079	78	3933090	149.443	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019459.D
Acq On : 09 Sep 2024 11:53
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 09 15:42:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	381338	150.062	ug/l	#	88
42) 1,2-Dichloroethane	8.158	62	1077120	152.095	ug/l		97
43) Isopropyl Acetate	8.195	43	1404869	152.735	ug/l		91
44) Trichloroethene	8.866	130	1021555	150.926	ug/l		93
45) 1,2-Dichloropropane	9.140	63	959151	149.072	ug/l		99
46) Dibromomethane	9.231	93	539711	153.391	ug/l		97
47) Bromodichloromethane	9.426	83	1421136	150.256	ug/l		98
48) Methyl methacrylate	9.219	41	663275	152.700	ug/l	#	85
49) 1,4-Dioxane	9.231	88	127374	3075.110	ug/l	#	87
51) 4-Methyl-2-Pentanone	9.999	43	3469233	749.699	ug/l		93
52) Toluene	10.170	92	2539462	150.029	ug/l		97
53) t-1,3-Dichloropropene	10.396	75	1385789	153.702	ug/l		97
54) cis-1,3-Dichloropropene	9.859	75	1589393	151.393	ug/l	#	88
55) 1,1,2-Trichloroethane	10.573	97	729514	150.138	ug/l		98
56) Ethyl methacrylate	10.438	69	1157985	156.886	ug/l	#	83
57) 1,3-Dichloropropane	10.719	76	1248066	149.429	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	2676298	781.223	ug/l		98
59) 2-Hexanone	10.762	43	2526599	744.745	ug/l		90
60) Dibromochloromethane	10.914	129	982984	152.932	ug/l		99
61) 1,2-Dibromoethane	11.018	107	676552	149.438	ug/l		99
64) Tetrachloroethene	10.646	164	872873	148.769	ug/l		94
65) Chlorobenzene	11.444	112	2793758	149.899	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	950878	147.356	ug/l		99
67) Ethyl Benzene	11.517	91	4834228	145.979	ug/l		97
68) m/p-Xylenes	11.627	106	3692854	294.913	ug/l		97
69) o-Xylene	11.956	106	1804674	147.368	ug/l		96
70) Styrene	11.969	104	3051114	147.570	ug/l		96
71) Bromoform	12.133	173	561403	152.319	ug/l	#	98
73) Isopropylbenzene	12.255	105	4651028	147.337	ug/l		99
74) N-amyl acetate	12.072	43	1362340	158.685	ug/l	#	89
75) 1,1,2,2-Tetrachloroethane	12.511	83	854201	152.453	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	542975m	73.854	ug/l		
77) Bromobenzene	12.536	156	1060269	151.442	ug/l		91
78) n-propylbenzene	12.597	91	5478908	146.433	ug/l		99
79) 2-Chlorotoluene	12.682	91	3250419	149.068	ug/l		96
80) 1,3,5-Trimethylbenzene	12.737	105	3778892	147.252	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	327568	154.186	ug/l		96
82) 4-Chlorotoluene	12.779	91	3363657	150.049	ug/l		96
83) tert-Butylbenzene	12.999	119	3409672	146.764	ug/l		94
84) 1,2,4-Trimethylbenzene	13.048	105	3735177	147.038	ug/l		98
85) sec-Butylbenzene	13.176	105	4900654	145.203	ug/l		99
86) p-Isopropyltoluene	13.292	119	4045603	146.510	ug/l		96
87) 1,3-Dichlorobenzene	13.292	146	2028252	149.091	ug/l		97
88) 1,4-Dichlorobenzene	13.371	146	2020725	149.671	ug/l		97
89) n-Butylbenzene	13.621	91	3908663	148.067	ug/l		98
90) Hexachloroethane	13.883	117	875771	152.427	ug/l		94
91) 1,2-Dichlorobenzene	13.657	146	1832668	150.963	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	143939	154.141	ug/l		87
93) 1,2,4-Trichlorobenzene	14.919	180	1167523	158.125	ug/l		97
94) Hexachlorobutadiene	15.023	225	589456	149.441	ug/l		99
95) Naphthalene	15.145	128	2420935	163.730	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	1012598	160.332	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019459.D
Acq On : 09 Sep 2024 11:53
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 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 09 15:42:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

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

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

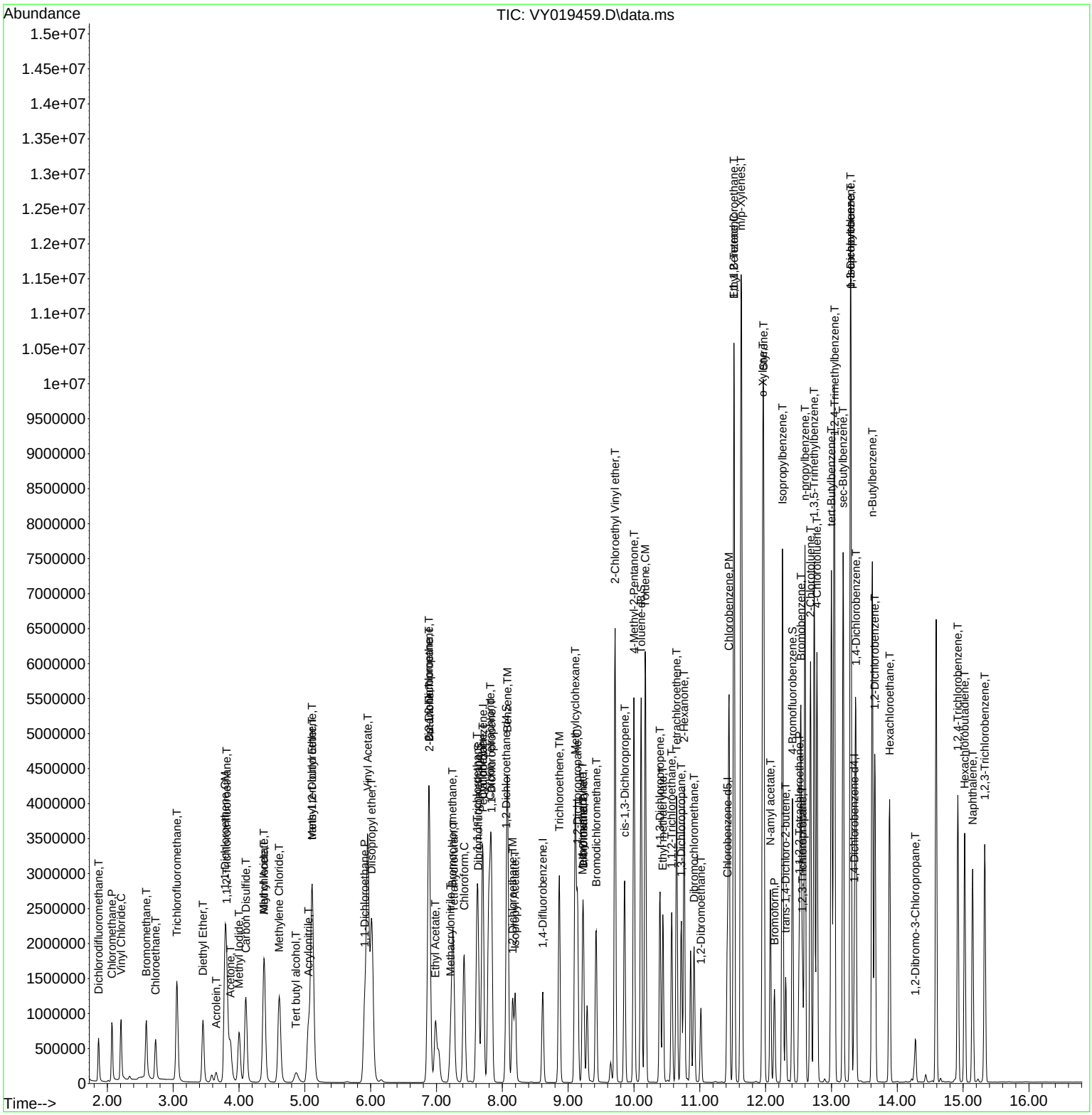
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019459.D
Acq On : 09 Sep 2024 11:53
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 09 15:42:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 15:39:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019461.D
Acq On : 09 Sep 2024 13:05
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY090924

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 10 01:47:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	669406	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	1126255	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	959646	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	455056	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	313377	50.557	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.120%			
35) Dibromofluoromethane	7.634	113	325982	51.049	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.100%			
50) Toluene-d8	10.109	98	1213541	51.380	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.760%			
62) 4-Bromofluorobenzene	12.407	95	443783	48.866	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 97.740%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	177890	48.497	ug/l	97
3) Chloromethane	2.074	50	262788	47.448	ug/l	97
4) Vinyl Chloride	2.208	62	299139	49.950	ug/l	99
5) Bromomethane	2.604	94	186852	50.794	ug/l	100
6) Chloroethane	2.738	64	198849	50.792	ug/l	99
7) Trichlorofluoromethane	3.067	101	496410	49.726	ug/l	97
8) Diethyl Ether	3.458	74	161192	48.102	ug/l	87
9) 1,1,2-Trichlorotrifluo...	3.823	101	304093	49.241	ug/l	97
10) Methyl Iodide	4.006	142	396900	50.128	ug/l	95
11) Tert butyl alcohol	4.866	59	112149	224.037	ug/l	98
12) 1,1-Dichloroethene	3.793	96	293602	49.435	ug/l	89
13) Acrolein	3.659	56	53635	220.895	ug/l	96
14) Allyl chloride	4.384	41	524263	49.224	ug/l #	91
15) Acrylonitrile	5.055	53	343115	237.467	ug/l	100
16) Acetone	3.872	43	364933	247.125	ug/l #	86
17) Carbon Disulfide	4.110	76	836902	52.155	ug/l	98
18) Methyl Acetate	4.384	43	181404	45.266	ug/l	92
19) Methyl tert-butyl Ether	5.116	73	799805	47.548	ug/l	100
20) Methylene Chloride	4.616	84	316089	46.936	ug/l #	86
21) trans-1,2-Dichloroethene	5.116	96	324115	49.789	ug/l	88
22) Diisopropyl ether	6.018	45	1057937	48.371	ug/l	94
23) Vinyl Acetate	5.957	43	3049974	244.143	ug/l #	93
24) 1,1-Dichloroethane	5.915	63	602439	49.087	ug/l	98
25) 2-Butanone	6.890	43	503179	239.579	ug/l #	87
26) 2,2-Dichloropropane	6.884	77	554822	50.117	ug/l	97
27) cis-1,2-Dichloroethene	6.890	96	391977	49.570	ug/l	90
28) Bromochloromethane	7.244	49	262095	50.756	ug/l	86
29) Tetrahydrofuran	7.262	42	297442	232.924	ug/l	87
30) Chloroform	7.420	83	614364	49.037	ug/l	99
31) Cyclohexane	7.701	56	530851	47.853	ug/l	93
32) 1,1,1-Trichloroethane	7.615	97	561015	49.958	ug/l	97
36) 1,1-Dichloropropene	7.835	75	442679	50.947	ug/l	97
37) Ethyl Acetate	6.981	43	215190	48.335	ug/l	96
38) Carbon Tetrachloride	7.817	117	493229	50.337	ug/l	99
39) Methylcyclohexane	9.109	83	584329	50.533	ug/l	91
40) Benzene	8.079	78	1334173	49.852	ug/l	97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019461.D
Acq On : 09 Sep 2024 13:05
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY090924

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 10 01:47:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	114413	44.086	ug/l		90
42) 1,2-Dichloroethane	8.158	62	358158	49.734	ug/l		97
43) Isopropyl Acetate	8.195	43	445561	47.636	ug/l		91
44) Trichloroethene	8.865	130	348574	50.644	ug/l		97
45) 1,2-Dichloropropane	9.140	63	321769	49.179	ug/l		99
46) Dibromomethane	9.231	93	175785	49.130	ug/l		98
47) Bromodichloromethane	9.426	83	472974	49.177	ug/l		98
48) Methyl methacrylate	9.219	41	211714	47.932	ug/l	#	85
49) 1,4-Dioxane	9.231	88	38906	923.689	ug/l	#	85
51) 4-Methyl-2-Pentanone	9.999	43	1109510	235.784	ug/l		92
52) Toluene	10.170	92	860746	50.008	ug/l		98
53) t-1,3-Dichloropropene	10.395	75	445283	48.568	ug/l		97
54) cis-1,3-Dichloropropene	9.859	75	525049	49.182	ug/l	#	89
55) 1,1,2-Trichloroethane	10.572	97	239048	48.381	ug/l		98
56) Ethyl methacrylate	10.438	69	359884	47.948	ug/l	#	82
57) 1,3-Dichloropropane	10.719	76	408643	48.114	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	863557	247.891	ug/l		98
59) 2-Hexanone	10.761	43	820311	237.782	ug/l		90
60) Dibromochloromethane	10.914	129	318573	48.741	ug/l		100
61) 1,2-Dibromoethane	11.017	107	213408	46.355	ug/l		100
64) Tetrachloroethene	10.645	164	294936	49.631	ug/l		93
65) Chlorobenzene	11.444	112	939640	49.777	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	319207	48.840	ug/l		99
67) Ethyl Benzene	11.523	91	1669355	49.771	ug/l		98
68) m/p-Xylenes	11.633	106	1269209	100.075	ug/l		95
69) o-Xylene	11.956	106	610122	49.191	ug/l		95
70) Styrene	11.968	104	1036560	49.499	ug/l		96
71) Bromoform	12.133	173	177914	47.659	ug/l	#	98
73) Isopropylbenzene	12.255	105	1618874	49.038	ug/l		100
74) N-amyl acetate	12.072	43	430506	47.949	ug/l	#	88
75) 1,1,2,2-Tetrachloroethane	12.511	83	273569	46.687	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	218207m	51.160	ug/l		
77) Bromobenzene	12.535	156	354665	48.440	ug/l		91
78) n-propylbenzene	12.596	91	1945757	49.726	ug/l		100
79) 2-Chlorotoluene	12.682	91	1117908	49.023	ug/l		96
80) 1,3,5-Trimethylbenzene	12.736	105	1324899	49.366	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	101376	45.628	ug/l		97
82) 4-Chlorotoluene	12.779	91	1141532	48.692	ug/l		97
83) tert-Butylbenzene	12.999	119	1196025	49.226	ug/l		95
84) 1,2,4-Trimethylbenzene	13.047	105	1300597	48.957	ug/l		98
85) sec-Butylbenzene	13.175	105	1755325	49.732	ug/l		100
86) p-Isopropyltoluene	13.291	119	1439825	49.859	ug/l		97
87) 1,3-Dichlorobenzene	13.291	146	701584	49.313	ug/l		98
88) 1,4-Dichlorobenzene	13.371	146	690036	48.871	ug/l		97
89) n-Butylbenzene	13.620	91	1380884	50.019	ug/l		99
90) Hexachloroethane	13.883	117	291680	48.543	ug/l		96
91) 1,2-Dichlorobenzene	13.663	146	616708	48.576	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	43729	44.778	ug/l		86
93) 1,2,4-Trichlorobenzene	14.919	180	375954	48.688	ug/l		97
94) Hexachlorobutadiene	15.023	225	200795	48.677	ug/l		99
95) Naphthalene	15.145	128	721934	46.687	ug/l		99
96) 1,2,3-Trichlorobenzene	15.327	180	319422	48.362	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019461.D
Acq On : 09 Sep 2024 13:05
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY090924

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024

Quant Time: Sep 10 01:47:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 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

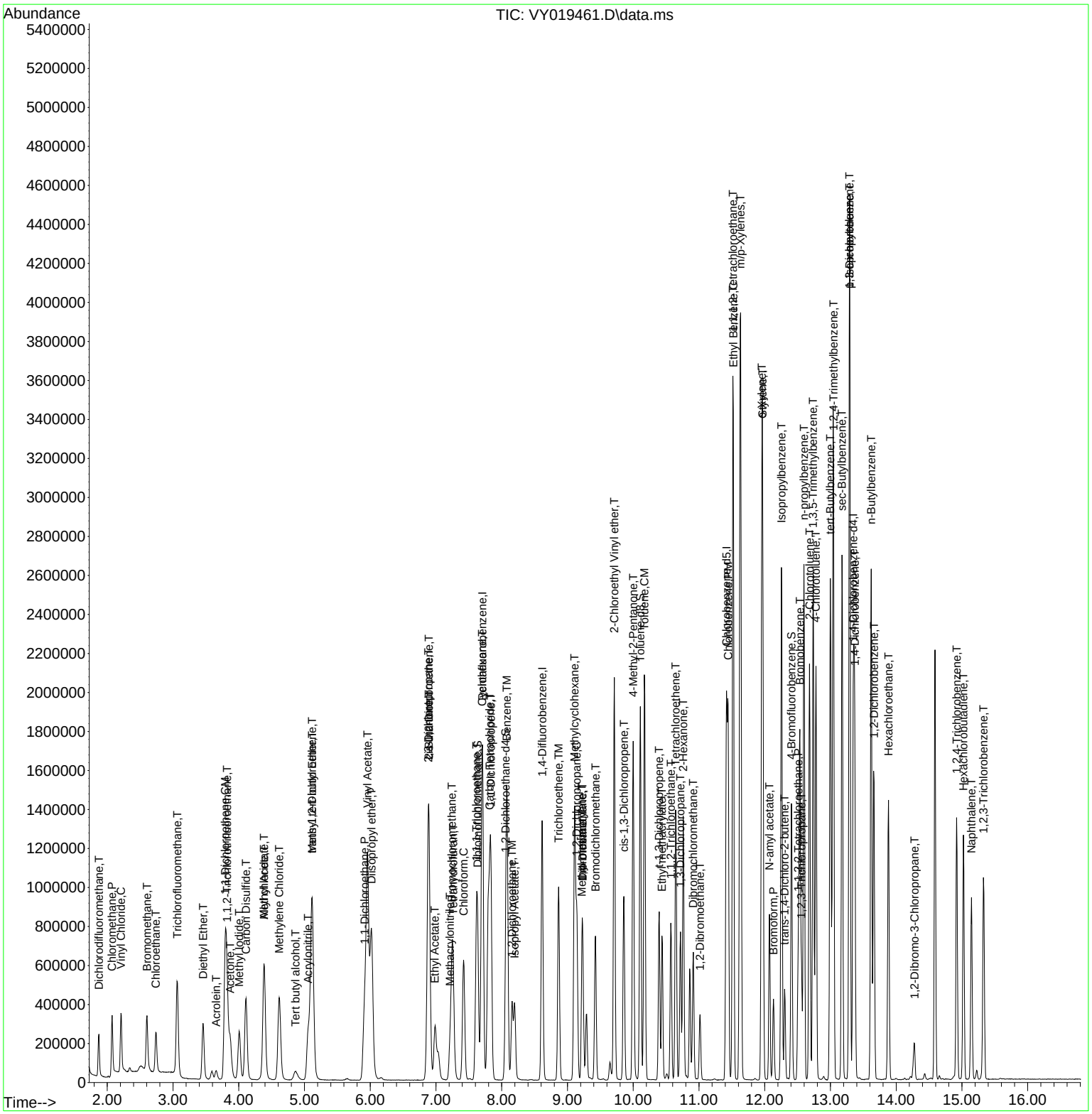
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019461.D
Acq On : 09 Sep 2024 13:05
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 01:47:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY090924

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/10/2024
Supervised By :Semsettin Yesilyurt 09/10/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019461.D
Acq On : 09 Sep 2024 13:05
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY090924

Quant Time: Sep 10 01:47:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 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	100	0.00
2	T	Dichlorodifluoromethane	0.316	0.266	15.8	100	0.00
3	P	Chloromethane	0.414	0.393	5.1	100	0.00
4	C	Vinyl Chloride	0.447	0.447	0.0	100	0.00
5	T	Bromomethane	0.275	0.279	-1.5	98	0.00
6	T	Chloroethane	0.292	0.297	-1.7	100	0.00
7	T	Trichlorofluoromethane	0.746	0.742	0.5	101	0.00
8	T	Diethyl Ether	0.250	0.241	3.6	91	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.461	0.454	1.5	99	0.01
10	T	Methyl Iodide	0.591	0.593	-0.3	97	0.00
11	T	Tert butyl alcohol	0.037	0.034	8.1	84	0.00
12	CM	1,1-Dichloroethene	0.444	0.439	1.1#	98	0.00
13	T	Acrolein	0.020	0.016	20.0	100	0.00
14	T	Allyl chloride	0.796	0.783	1.6	96	0.00
15	T	Acrylonitrile	0.108	0.103	4.6	88	0.00
16	T	Acetone	0.110	0.109	0.9	88	0.00
17	T	Carbon Disulfide	1.199	1.250	-4.3	97	0.00
18	T	Methyl Acetate	0.299	0.271	9.4	78	0.00
19	T	Methyl tert-butyl Ether	1.256	1.195	4.9	91	0.00
20	T	Methylene Chloride	0.503	0.472	6.2	94	0.00
21	T	trans-1,2-Dichloroethene	0.486	0.484	0.4	96	0.00
22	T	Diisopropyl ether	1.634	1.580	3.3	93	0.00
23	T	Vinyl Acetate	0.933	0.911	2.4	94	0.00
24	P	1,1-Dichloroethane	0.917	0.900	1.9	95	0.00
25	T	2-Butanone	0.157	0.150	4.5	88	0.00
26	T	2,2-Dichloropropane	0.827	0.829	-0.2	99	0.00
27	T	cis-1,2-Dichloroethene	0.591	0.586	0.8	95	0.00
28	T	Bromochloromethane	0.386	0.392	-1.6	95	0.00
29	T	Tetrahydrofuran	0.095	0.089	6.3	86	0.00
30	C	Chloroform	0.936	0.918	1.9#	95	0.00
31	T	Cyclohexane	0.829	0.793	4.3	98	0.00
32	T	1,1,1-Trichloroethane	0.839	0.838	0.1	98	0.00
33	S	1,2-Dichloroethane-d4	0.463	0.468	-1.1	96	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
35	S	Dibromofluoromethane	0.283	0.289	-2.1	97	0.00
36	T	1,1-Dichloropropene	0.386	0.393	-1.8	98	0.00
37	T	Ethyl Acetate	0.198	0.191	3.5	89	0.00
38	T	Carbon Tetrachloride	0.435	0.438	-0.7	98	0.00
39	T	Methylcyclohexane	0.513	0.519	-1.2	98	0.00
40	TM	Benzene	1.188	1.185	0.3	96	0.00
41	T	Methacrylonitrile	0.115	0.102	11.3	76	0.00
42	TM	1,2-Dichloroethane	0.320	0.318	0.6	94	0.00
43	T	Isopropyl Acetate	0.415	0.396	4.6	89	0.00
44	TM	Trichloroethene	0.306	0.309	-1.0	97	0.00
45	C	1,2-Dichloropropane	0.290	0.286	1.4#	95	0.00
46	T	Dibromomethane	0.159	0.156	1.9	91	0.00
47	T	Bromodichloromethane	0.427	0.420	1.6	94	0.00
48	T	Methyl methacrylate	0.196	0.188	4.1	87	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019461.D
Acq On : 09 Sep 2024 13:05
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY090924

Quant Time: Sep 10 01:47:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	87	0.00
50	S	Toluene-d8	1.049	1.078	-2.8	97	0.00
51	T	4-Methyl-2-Pentanone	0.209	0.197	5.7	87	0.00
52	CM	Toluene	0.764	0.764	0.0	95	0.00
53	T	t-1,3-Dichloropropene	0.407	0.395	2.9	91	0.00
54	T	cis-1,3-Dichloropropene	0.474	0.466	1.7	93	0.00
55	T	1,1,2-Trichloroethane	0.219	0.212	3.2	90	0.00
56	T	Ethyl methacrylate	0.333	0.320	3.9	90	0.00
57	T	1,3-Dichloropropane	0.377	0.363	3.7	90	0.00
58	T	2-Chloroethyl Vinyl ether	0.155	0.153	1.3	94	0.00
59	T	2-Hexanone	0.153	0.146	4.6	87	0.00
60	T	Dibromochloromethane	0.290	0.283	2.4	91	0.00
61	T	1,2-Dibromoethane	0.204	0.189	7.4	87	0.00
62	S	4-Bromofluorobenzene	0.403	0.394	2.2	96	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	T	Tetrachloroethene	0.310	0.307	1.0	95	0.00
65	PM	Chlorobenzene	0.984	0.979	0.5	95	0.00
66	T	1,1,1,2-Tetrachloroethane	0.341	0.333	2.3	93	0.00
67	C	Ethyl Benzene	1.748	1.740	0.5#	95	0.00
68	T	m/p-Xylenes	0.661	0.661	0.0	96	0.00
69	T	o-Xylene	0.646	0.636	1.5	94	0.00
70	T	Styrene	1.091	1.080	1.0	94	0.00
71	P	Bromoform	0.195	0.185	5.1	88	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
73	T	Isopropylbenzene	3.627	3.558	1.9	96	0.00
74	T	N-amyl acetate	0.987	0.946	4.2	90	0.00
75	P	1,1,2,2-Tetrachloroethane	0.644	0.601	6.7	88	0.00
76	T	1,2,3-Trichloropropane	0.469	0.480	-2.3	89	0.00
77	T	Bromobenzene	0.804	0.779	3.1	93	0.00
78	T	n-propylbenzene	4.299	4.276	0.5	97	0.00
79	T	2-Chlorotoluene	2.506	2.457	2.0	95	0.00
80	T	1,3,5-Trimethylbenzene	2.949	2.912	1.3	95	0.00
81	T	trans-1,4-Dichloro-2-butene	0.244	0.223	8.6	86	0.00
82	T	4-Chlorotoluene	2.576	2.509	2.6	95	0.00
83	T	tert-Butylbenzene	2.670	2.628	1.6	96	0.00
84	T	1,2,4-Trimethylbenzene	2.919	2.858	2.1	95	0.00
85	T	sec-Butylbenzene	3.878	3.857	0.5	97	0.00
86	T	p-Isopropyltoluene	3.173	3.164	0.3	97	0.00
87	T	1,3-Dichlorobenzene	1.563	1.542	1.3	95	0.00
88	T	1,4-Dichlorobenzene	1.551	1.516	2.3	94	0.00
89	T	n-Butylbenzene	3.033	3.035	-0.1	97	0.00
90	T	Hexachloroethane	0.660	0.641	2.9	94	0.00
91	T	1,2-Dichlorobenzene	1.395	1.355	2.9	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.107	0.096	10.3	85	0.00
93	T	1,2,4-Trichlorobenzene	0.848	0.826	2.6	92	0.00
94	T	Hexachlorobutadiene	0.453	0.441	2.6	96	0.00
95	T	Naphthalene	1.699	1.586	6.7	86	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019461.D
Acq On : 09 Sep 2024 13:05
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY090924

Quant Time: Sep 10 01:47:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 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	0.726	0.702	3.3	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 4

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019461.D
Acq On : 09 Sep 2024 13:05
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY090924

Quant Time: Sep 10 01:47:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 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	100	0.00
2	T	Dichlorodifluoromethane	50.000	48.497	3.0	100	0.00
3	P	Chloromethane	50.000	47.448	5.1	100	0.00
4	C	Vinyl Chloride	50.000	49.950	0.1#	100	0.00
5	T	Bromomethane	50.000	50.794	-1.6	98	0.00
6	T	Chloroethane	50.000	50.792	-1.6	100	0.00
7	T	Trichlorofluoromethane	50.000	49.726	0.5	101	0.00
8	T	Diethyl Ether	50.000	48.102	3.8	91	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.241	1.5	99	0.01
10	T	Methyl Iodide	50.000	50.128	-0.3	97	0.00
11	T	Tert butyl alcohol	250.000	224.037	10.4	84	0.00
12	CM	1,1-Dichloroethene	50.000	49.435	1.1#	98	0.00
13	T	Acrolein	250.000	220.895	11.6	100	0.00
14	T	Allyl chloride	50.000	49.224	1.6	96	0.00
15	T	Acrylonitrile	250.000	237.467	5.0	88	0.00
16	T	Acetone	250.000	247.125	1.1	88	0.00
17	T	Carbon Disulfide	50.000	52.155	-4.3	97	0.00
18	T	Methyl Acetate	50.000	45.266	9.5	78	0.00
19	T	Methyl tert-butyl Ether	50.000	47.548	4.9	91	0.00
20	T	Methylene Chloride	50.000	46.936	6.1	94	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.789	0.4	96	0.00
22	T	Diisopropyl ether	50.000	48.371	3.3	93	0.00
23	T	Vinyl Acetate	250.000	244.143	2.3	94	0.00
24	P	1,1-Dichloroethane	50.000	49.087	1.8	95	0.00
25	T	2-Butanone	250.000	239.579	4.2	88	0.00
26	T	2,2-Dichloropropane	50.000	50.117	-0.2	99	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.570	0.9	95	0.00
28	T	Bromochloromethane	50.000	50.756	-1.5	95	0.00
29	T	Tetrahydrofuran	250.000	232.924	6.8	86	0.00
30	C	Chloroform	50.000	49.037	1.9#	95	0.00
31	T	Cyclohexane	50.000	47.853	4.3	98	0.00
32	T	1,1,1-Trichloroethane	50.000	49.958	0.1	98	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.557	-1.1	96	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	98	0.00
35	S	Dibromofluoromethane	50.000	51.049	-2.1	97	0.00
36	T	1,1-Dichloropropene	50.000	50.947	-1.9	98	0.00
37	T	Ethyl Acetate	50.000	48.335	3.3	89	0.00
38	T	Carbon Tetrachloride	50.000	50.337	-0.7	98	0.00
39	T	Methylcyclohexane	50.000	50.533	-1.1	98	0.00
40	TM	Benzene	50.000	49.852	0.3	96	0.00
41	T	Methacrylonitrile	50.000	44.086	11.8	76	0.00
42	TM	1,2-Dichloroethane	50.000	49.734	0.5	94	0.00
43	T	Isopropyl Acetate	50.000	47.636	4.7	89	0.00
44	TM	Trichloroethene	50.000	50.644	-1.3	97	0.00
45	C	1,2-Dichloropropane	50.000	49.179	1.6#	95	0.00
46	T	Dibromomethane	50.000	49.130	1.7	91	0.00
47	T	Bromodichloromethane	50.000	49.177	1.6	94	0.00
48	T	Methyl methacrylate	50.000	47.932	4.1	87	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019461.D
Acq On : 09 Sep 2024 13:05
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY090924

Quant Time: Sep 10 01:47:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	923.689	7.6	87	0.00
50	S	Toluene-d8	50.000	51.380	-2.8	97	0.00
51	T	4-Methyl-2-Pentanone	250.000	235.784	5.7	87	0.00
52	CM	Toluene	50.000	50.008	-0.0#	95	0.00
53	T	t-1,3-Dichloropropene	50.000	48.568	2.9	91	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.182	1.6	93	0.00
55	T	1,1,2-Trichloroethane	50.000	48.381	3.2	90	0.00
56	T	Ethyl methacrylate	50.000	47.948	4.1	90	0.00
57	T	1,3-Dichloropropane	50.000	48.114	3.8	90	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	247.891	0.8	94	0.00
59	T	2-Hexanone	250.000	237.782	4.9	87	0.00
60	T	Dibromochloromethane	50.000	48.741	2.5	91	0.00
61	T	1,2-Dibromoethane	50.000	46.355	7.3	87	0.00
62	S	4-Bromofluorobenzene	50.000	48.866	2.3	96	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64	T	Tetrachloroethene	50.000	49.631	0.7	95	0.00
65	PM	Chlorobenzene	50.000	49.777	0.4	95	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.840	2.3	93	0.00
67	C	Ethyl Benzene	50.000	49.771	0.5#	95	0.00
68	T	m/p-Xylenes	100.000	100.075	-0.1	96	0.00
69	T	o-Xylene	50.000	49.191	1.6	94	0.00
70	T	Styrene	50.000	49.499	1.0	94	0.00
71	P	Bromoform	50.000	47.659	4.7	88	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
73	T	Isopropylbenzene	50.000	49.038	1.9	96	0.00
74	T	N-amyl acetate	50.000	47.949	4.1	90	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	46.687	6.6	88	0.00
76	T	1,2,3-Trichloropropane	50.000	51.160	-2.3	89	0.00
77	T	Bromobenzene	50.000	48.440	3.1	93	0.00
78	T	n-propylbenzene	50.000	49.726	0.5	97	0.00
79	T	2-Chlorotoluene	50.000	49.023	2.0	95	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.366	1.3	95	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	45.628	8.7	86	0.00
82	T	4-Chlorotoluene	50.000	48.692	2.6	95	0.00
83	T	tert-Butylbenzene	50.000	49.226	1.5	96	0.00
84	T	1,2,4-Trimethylbenzene	50.000	48.957	2.1	95	0.00
85	T	sec-Butylbenzene	50.000	49.732	0.5	97	0.00
86	T	p-Isopropyltoluene	50.000	49.859	0.3	97	0.00
87	T	1,3-Dichlorobenzene	50.000	49.313	1.4	95	0.00
88	T	1,4-Dichlorobenzene	50.000	48.871	2.3	94	0.00
89	T	n-Butylbenzene	50.000	50.019	-0.0	97	0.00
90	T	Hexachloroethane	50.000	48.543	2.9	94	0.00
91	T	1,2-Dichlorobenzene	50.000	48.576	2.8	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	44.778	10.4	85	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.688	2.6	92	0.00
94	T	Hexachlorobutadiene	50.000	48.677	2.6	96	0.00
95	T	Naphthalene	50.000	46.687	6.6	86	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019461.D
Acq On : 09 Sep 2024 13:05
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY090924

Quant Time: Sep 10 01:47:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 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	48.362	3.3	90	0.00

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

Raw Data: **VY019756.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: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: MSVOA_Y Calibration Date/Time: 10/02/2024 09:39

Lab File ID: VY019756.D Init. Calib. Date(s): 09/09/2024 09/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:52 11:53

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.316	0.221		-30.06	20
Chloromethane	0.414	0.361	0.1	-12.8	20
Vinyl Chloride	0.447	0.435		-2.68	20
Bromomethane	0.275	0.302		9.82	20
Chloroethane	0.292	0.309		5.82	20
Trichlorofluoromethane	0.746	0.738		-1.07	20
1,1,2-Trichlorotrifluoroethane	0.461	0.456		-1.09	20
1,1-Dichloroethene	0.444	0.424		-4.51	20
Acetone	0.110	0.130		18.18	20
Carbon Disulfide	1.199	1.028		-14.26	20
Methyl tert-butyl Ether	1.256	1.256		0	20
Methyl Acetate	0.299	0.298		-0.33	20
Methylene Chloride	0.503	0.476		-5.37	20
trans-1,2-Dichloroethene	0.486	0.459		-5.56	20
1,1-Dichloroethane	0.917	0.937	0.1	2.18	20
Cyclohexane	0.829	0.753		-9.17	20
2-Butanone	0.157	0.168		7.01	20
Carbon Tetrachloride	0.435	0.441		1.38	20
cis-1,2-Dichloroethene	0.591	0.599		1.35	20
Bromochloromethane	0.386	0.472		22.28	20
Chloroform	0.936	0.989		5.66	20
1,1,1-Trichloroethane	0.839	0.870		3.69	20
Methylcyclohexane	0.513	0.488		-4.87	20
Benzene	1.188	1.190		0.17	20
1,2-Dichloroethane	0.320	0.341		6.56	20
Trichloroethene	0.306	0.298		-2.61	20
1,2-Dichloropropane	0.290	0.293		1.03	20
Bromodichloromethane	0.427	0.449		5.15	20
4-Methyl-2-Pentanone	0.209	0.216		3.35	20
Toluene	0.764	0.762		-0.26	20
t-1,3-Dichloropropene	0.407	0.626		53.81	20
cis-1,3-Dichloropropene	0.474	0.467		-1.48	20
1,1,2-Trichloroethane	0.219	0.223		1.83	20
2-Hexanone	0.153	0.155		1.31	20
Dibromochloromethane	0.290	0.300		3.45	20
1,2-Dibromoethane	0.204	0.199		-2.45	20
Tetrachloroethene	0.310	0.298		-3.87	20
Chlorobenzene	0.984	0.992	0.3	0.81	20

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

Raw Data: **VY019756.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: MSVOA_Y Calibration Date/Time: 10/02/2024 09:39

Lab File ID: VY019756.D Init. Calib. Date(s): 09/09/2024 09/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:52 11:53

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.748	1.795		2.69	20
m/p-Xylenes	0.661	0.664		0.45	20
o-Xylene	0.646	0.644		-0.31	20
Styrene	1.091	1.098		0.64	20
Bromoform	0.195	0.200	0.1	2.56	20
Isopropylbenzene	3.627	3.705		2.15	20
1,1,2,2-Tetrachloroethane	0.644	0.647	0.3	0.47	20
1,3-Dichlorobenzene	1.563	1.582		1.22	20
1,4-Dichlorobenzene	1.551	1.548		-0.19	20
1,2-Dichlorobenzene	1.395	1.391		-0.29	20
1,2-Dibromo-3-Chloropropane	0.107	0.104		-2.8	20
1,2,4-Trichlorobenzene	0.848	0.790		-6.84	20
1,2,3-Trichlorobenzene	0.726	0.668		-7.99	20
1,2-Dichloroethane-d4	0.463	0.537		15.98	20
Dibromofluoromethane	0.283	0.319		12.72	20
Toluene-d8	1.049	1.151		9.72	20
4-Bromofluorobenzene	0.403	0.427		5.95	20

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

Sample Results: **VY019756.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019756.D
Acq On : 02 Oct 2024 09:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 03 01:57:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	7.707	168	313908	50.000 ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	532797	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.414	117	452211	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	212843	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.061	65	168508	57.972 ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 115.940%		
35) Dibromofluoromethane	7.634	113	170121	56.315 ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 112.640%		
50) Toluene-d8	10.103	98	613233	54.883 ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 109.760%		
62) 4-Bromofluorobenzene	12.401	95	227659	52.990 ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 105.980%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.867	85	69359	39.572 ug/l	99
3) Chloromethane	2.068	50	113239	43.601 ug/l	100
4) Vinyl Chloride	2.202	62	136406	48.572 ug/l	98
5) Bromomethane	2.598	94	94754	54.929 ug/l	100
6) Chloroethane	2.739	64	97085	52.882 ug/l	98
7) Trichlorofluoromethane	3.062	101	231730	49.500 ug/l	97
8) Diethyl Ether	3.458	74	76353	48.589 ug/l	87
9) 1,1,2-Trichlorotrifluo...	3.818	101	143011	49.383 ug/l	96
10) Methyl Iodide	4.007	142	152976	41.201 ug/l	93
11) Tert butyl alcohol	4.878	59	67323	286.797 ug/l #	80
12) 1,1-Dichloroethene	3.787	96	132965	47.742 ug/l	86
13) Acrolein	3.659	56	12867	105.582 ug/l	96
14) Allyl chloride	4.385	41	237579	47.569 ug/l #	90
15) Acrylonitrile	5.067	53	173775	256.470 ug/l	99
16) Acetone	3.879	43	203457	293.808 ug/l #	84
17) Carbon Disulfide	4.110	76	322647	42.878 ug/l	99
18) Methyl Acetate	4.391	43	93607	49.811 ug/l	94
19) Methyl tert-butyl Ether	5.122	73	394388	49.999 ug/l	99
20) Methylene Chloride	4.616	84	149346	47.290 ug/l #	83
21) trans-1,2-Dichloroethene	5.116	96	143982	47.166 ug/l	86
22) Diisopropyl ether	6.018	45	524477	51.138 ug/l	92
23) Vinyl Acetate	5.964	43	1485899	253.644 ug/l #	93
24) 1,1-Dichloroethane	5.915	63	294173	51.114 ug/l	97
25) 2-Butanone	6.896	43	264105	268.158 ug/l #	87
26) 2,2-Dichloropropane	6.884	77	348864	67.201 ug/l	85
27) cis-1,2-Dichloroethene	6.890	96	188149	50.740 ug/l	87
28) Bromochloromethane	7.244	49	148177	61.192 ug/l	82
29) Tetrahydrofuran	7.262	42	149666	249.932 ug/l #	85
30) Chloroform	7.421	83	310366	52.827 ug/l	99
31) Cyclohexane	7.701	56	236383	45.440 ug/l	95
32) 1,1,1-Trichloroethane	7.616	97	273072	51.856 ug/l	96
36) 1,1-Dichloropropene	7.835	75	208116	50.630 ug/l	95
37) Ethyl Acetate	6.982	43	106810	50.714 ug/l	99
38) Carbon Tetrachloride	7.817	117	235024	50.702 ug/l	99
39) Methylcyclohexane	9.109	83	259996	47.529 ug/l	92
40) Benzene	8.079	78	633821	50.062 ug/l	98

Sample Results: **VY019756.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019756.D
Acq On : 02 Oct 2024 09:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 03 01:57:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	63411	51.650	ug/l	#	83
42) 1,2-Dichloroethane	8.158	62	181529	53.284	ug/l		95
43) Isopropyl Acetate	8.195	43	222801	50.353	ug/l	#	90
44) Trichloroethene	8.866	130	158772	48.762	ug/l		94
45) 1,2-Dichloropropane	9.140	63	155938	50.381	ug/l		96
46) Dibromomethane	9.231	93	87476	51.681	ug/l		94
47) Bromodichloromethane	9.420	83	239076	52.545	ug/l		97
48) Methyl methacrylate	9.219	41	100281	47.992	ug/l		85
49) 1,4-Dioxane	9.237	88	20493	1028.466	ug/l	#	82
51) 4-Methyl-2-Pentanone	9.999	43	575136	258.362	ug/l		92
52) Toluene	10.170	92	405999	49.861	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	333372	76.863	ug/l		89
54) cis-1,3-Dichloropropene	9.853	75	249042	49.312	ug/l	#	86
55) 1,1,2-Trichloroethane	10.573	97	118712	50.787	ug/l		95
56) Ethyl methacrylate	10.438	69	179259	50.485	ug/l	#	81
57) 1,3-Dichloropropane	10.719	76	205668	51.188	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	453643	275.270	ug/l		97
59) 2-Hexanone	10.762	43	414090	253.729	ug/l		89
60) Dibromochloromethane	10.908	129	159953	51.731	ug/l		100
61) 1,2-Dibromoethane	11.011	107	106196	48.761	ug/l		100
64) Tetrachloroethene	10.646	164	134882	48.167	ug/l		93
65) Chlorobenzene	11.438	112	448613	50.433	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.511	131	158679	51.522	ug/l		98
67) Ethyl Benzene	11.517	91	811866	51.366	ug/l		100
68) m/p-Xylenes	11.627	106	600567	100.490	ug/l		93
69) o-Xylene	11.950	106	291037	49.795	ug/l		93
70) Styrene	11.969	104	496421	50.306	ug/l		96
71) Bromoform	12.127	173	90374	51.375	ug/l	#	98
73) Isopropylbenzene	12.249	105	788586	51.071	ug/l		100
74) N-amyl acetate	12.066	43	207404	49.388	ug/l		90
75) 1,1,2,2-Tetrachloroethane	12.505	83	137658	50.227	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	95269m	47.755	ug/l		
77) Bromobenzene	12.529	156	169774	49.575	ug/l		90
78) n-propylbenzene	12.590	91	942480	51.496	ug/l		98
79) 2-Chlorotoluene	12.676	91	537473	50.392	ug/l		96
80) 1,3,5-Trimethylbenzene	12.731	105	634233	50.525	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.304	75	49604	47.733	ug/l		89
82) 4-Chlorotoluene	12.773	91	548637	50.034	ug/l		96
83) tert-Butylbenzene	12.993	119	576299	50.712	ug/l		95
84) 1,2,4-Trimethylbenzene	13.042	105	628571	50.586	ug/l		97
85) sec-Butylbenzene	13.170	105	840324	50.901	ug/l		100
86) p-Isopropyltoluene	13.292	119	688359	50.963	ug/l		97
87) 1,3-Dichlorobenzene	13.285	146	336801	50.613	ug/l		98
88) 1,4-Dichlorobenzene	13.365	146	329476	49.890	ug/l		97
89) n-Butylbenzene	13.615	91	659253	51.055	ug/l		99
90) Hexachloroethane	13.877	117	141205	50.243	ug/l		92
91) 1,2-Dichlorobenzene	13.657	146	296050	49.855	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.267	75	22136	48.461	ug/l		83
93) 1,2,4-Trichlorobenzene	14.913	180	168190	46.569	ug/l		97
94) Hexachlorobutadiene	15.017	225	91219	47.278	ug/l		98
95) Naphthalene	15.139	128	332827	46.017	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	142262	46.050	ug/l		99

Sample Results: **VY019756.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019756.D
Acq On : 02 Oct 2024 09:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 03 01:57:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024

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

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

Sample Results: **VY019756.D**

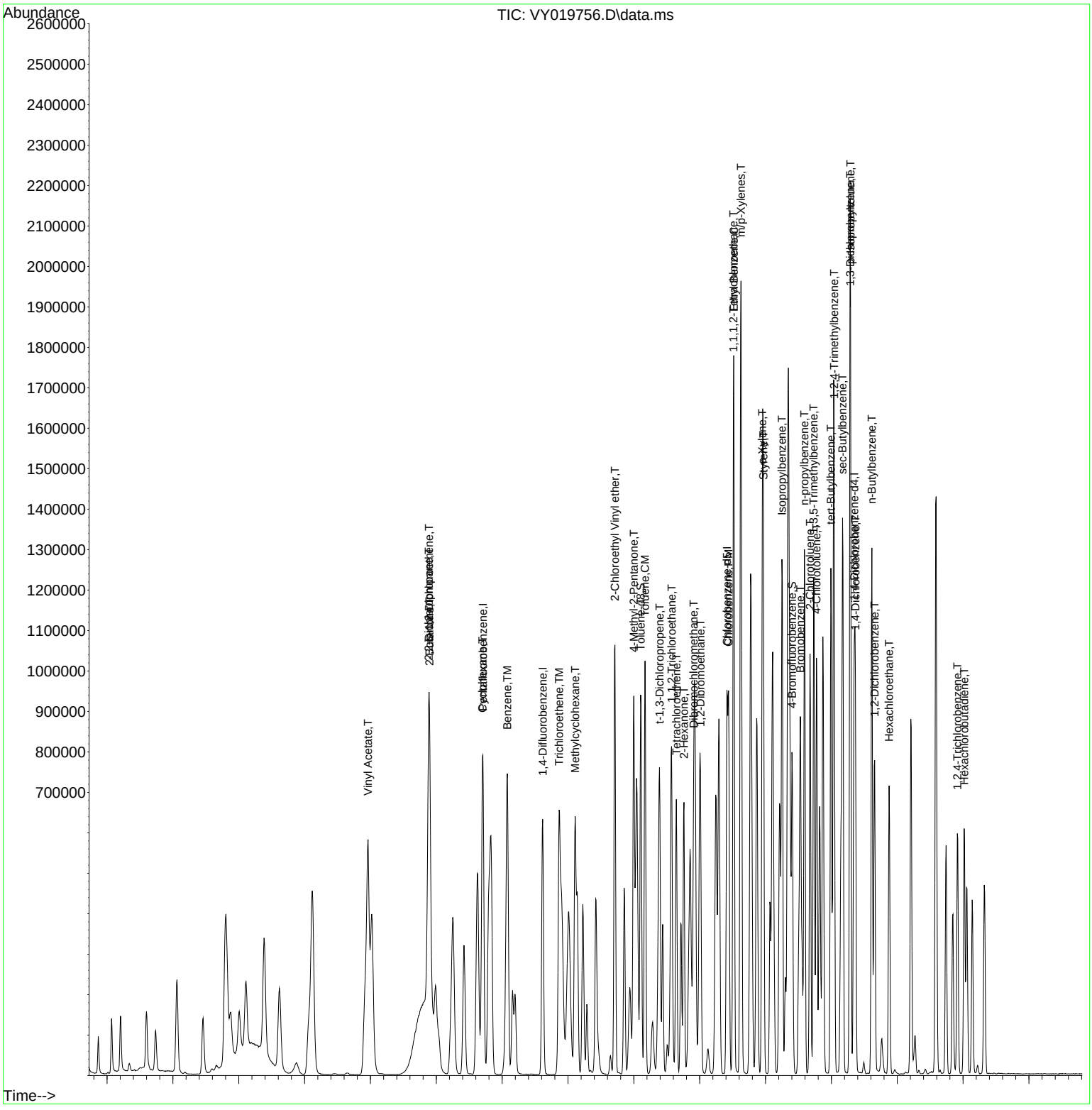
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019756.D
Acq On : 02 Oct 2024 09:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 03 01:57:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024



Sample Results: **VY019756.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019756.D
Acq On : 02 Oct 2024 09:39
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: Oct 03 01:57:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 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	47#	0.00
2	T	Dichlorodifluoromethane	0.316	0.221	30.1#	39#	0.00
3	P	Chloromethane	0.414	0.361	12.8	43#	0.00
4	C	Vinyl Chloride	0.447	0.435	2.7#	45#	0.00
5	T	Bromomethane	0.275	0.302	-9.8	50#	0.00
6	T	Chloroethane	0.292	0.309	-5.8	49#	0.00
7	T	Trichlorofluoromethane	0.746	0.738	1.1	47#	0.00
8	T	Diethyl Ether	0.250	0.243	2.8	43#	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.461	0.456	1.1	47#	0.00
10	T	Methyl Iodide	0.591	0.487	17.6	37#	0.00
11	T	Tert butyl alcohol	0.037	0.043	-16.2	50	0.02
12	CM	1,1-Dichloroethene	0.444	0.424	4.5#	44#	0.00
13	T	Acrolein	0.020	0.008	60.0#	24#	0.00
14	T	Allyl chloride	0.796	0.757	4.9	44#	0.00
15	T	Acrylonitrile	0.108	0.111	-2.8	45#	0.01
16	T	Acetone	0.110	0.130	-18.2	49#	0.00
17	T	Carbon Disulfide	1.199	1.028	14.3	37#	0.00
18	T	Methyl Acetate	0.299	0.298	0.3	40#	0.00
19	T	Methyl tert-butyl Ether	1.256	1.256	0.0	45#	0.00
20	T	Methylene Chloride	0.503	0.476	5.4	44#	0.00
21	T	trans-1,2-Dichloroethene	0.486	0.459	5.6	43#	0.00
22	T	Diisopropyl ether	1.634	1.671	-2.3	46#	0.00
23	T	Vinyl Acetate	0.933	0.947	-1.5	46#	0.00
24	P	1,1-Dichloroethane	0.917	0.937	-2.2	46#	0.00
25	T	2-Butanone	0.157	0.168	-7.0	46#	0.00
26	T	2,2-Dichloropropane	0.827	1.111	-34.3#	62	0.00
27	T	cis-1,2-Dichloroethene	0.591	0.599	-1.4	46#	0.00
28	T	Bromochloromethane	0.386	0.472	-22.3	54	0.00
29	T	Tetrahydrofuran	0.095	0.095	0.0	43#	0.00
30	C	Chloroform	0.936	0.989	-5.7#	48#	0.00
31	T	Cyclohexane	0.829	0.753	9.2	44#	0.00
32	T	1,1,1-Trichloroethane	0.839	0.870	-3.7	48#	0.00
33	S	1,2-Dichloroethane-d4	0.463	0.537	-16.0	52	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	46#	0.00
35	S	Dibromofluoromethane	0.283	0.319	-12.7	51	0.00
36	T	1,1-Dichloropropene	0.386	0.391	-1.3	46#	0.00
37	T	Ethyl Acetate	0.198	0.200	-1.0	44#	0.00
38	T	Carbon Tetrachloride	0.435	0.441	-1.4	47#	0.00
39	T	Methylcyclohexane	0.513	0.488	4.9	44#	0.00
40	TM	Benzene	1.188	1.190	-0.2	45#	0.00
41	T	Methacrylonitrile	0.115	0.119	-3.5	42#	0.00
42	TM	1,2-Dichloroethane	0.320	0.341	-6.6	48#	0.00
43	T	Isopropyl Acetate	0.415	0.418	-0.7	45#	0.00
44	TM	Trichloroethene	0.306	0.298	2.6	44#	0.00
45	C	1,2-Dichloropropane	0.290	0.293	-1.0#	46#	0.00
46	T	Dibromomethane	0.159	0.164	-3.1	45#	0.00
47	T	Bromodichloromethane	0.427	0.449	-5.2	48#	0.00
48	T	Methyl methacrylate	0.196	0.188	4.1	41#	0.00

Sample Results: **VY019756.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019756.D
Acq On : 02 Oct 2024 09:39
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: Oct 03 01:57:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	46#	0.00
50	S	Toluene-d8	1.049	1.151	-9.7	49#	0.00
51	T	4-Methyl-2-Pentanone	0.209	0.216	-3.3	45#	0.00
52	CM	Toluene	0.764	0.762	0.3#	45#	0.00
53	T	t-1,3-Dichloropropene	0.407	0.626	-53.8#	68	0.00
54	T	cis-1,3-Dichloropropene	0.474	0.467	1.5	44#	0.00
55	T	1,1,2-Trichloroethane	0.219	0.223	-1.8	45#	0.00
56	T	Ethyl methacrylate	0.333	0.336	-0.9	45#	0.00
57	T	1,3-Dichloropropane	0.377	0.386	-2.4	45#	0.00
58	T	2-Chloroethyl Vinyl ether	0.155	0.170	-9.7	49#	0.00
59	T	2-Hexanone	0.153	0.155	-1.3	44#	0.00
60	T	Dibromochloromethane	0.290	0.300	-3.4	46#	0.00
61	T	1,2-Dibromoethane	0.204	0.199	2.5	43#	0.00
62	S	4-Bromofluorobenzene	0.403	0.427	-6.0	49#	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	46#	0.00
64	T	Tetrachloroethene	0.310	0.298	3.9	44#	0.00
65	PM	Chlorobenzene	0.984	0.992	-0.8	45#	0.00
66	T	1,1,1,2-Tetrachloroethane	0.341	0.351	-2.9	46#	0.00
67	C	Ethyl Benzene	1.748	1.795	-2.7#	46#	0.00
68	T	m/p-Xylenes	0.661	0.664	-0.5	45#	0.00
69	T	o-Xylene	0.646	0.644	0.3	45#	0.00
70	T	Styrene	1.091	1.098	-0.6	45#	0.00
71	P	Bromoform	0.195	0.200	-2.6	45#	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	45#	0.00
73	T	Isopropylbenzene	3.627	3.705	-2.2	47#	0.00
74	T	N-amyl acetate	0.987	0.974	1.3	44#	0.00
75	P	1,1,2,2-Tetrachloroethane	0.644	0.647	-0.5	44#	0.00
76	T	1,2,3-Trichloropropane	0.469	0.448	4.5	39#	0.00
77	T	Bromobenzene	0.804	0.798	0.7	45#	0.00
78	T	n-propylbenzene	4.299	4.428	-3.0	47#	0.00
79	T	2-Chlorotoluene	2.506	2.525	-0.8	46#	0.00
80	T	1,3,5-Trimethylbenzene	2.949	2.980	-1.1	46#	0.00
81	T	trans-1,4-Dichloro-2-butene	0.244	0.233	4.5	42#	0.00
82	T	4-Chlorotoluene	2.576	2.578	-0.1	45#	0.00
83	T	tert-Butylbenzene	2.670	2.708	-1.4	46#	0.00
84	T	1,2,4-Trimethylbenzene	2.919	2.953	-1.2	46#	0.00
85	T	sec-Butylbenzene	3.878	3.948	-1.8	46#	0.00
86	T	p-Isopropyltoluene	3.173	3.234	-1.9	46#	0.00
87	T	1,3-Dichlorobenzene	1.563	1.582	-1.2	46#	0.00
88	T	1,4-Dichlorobenzene	1.551	1.548	0.2	45#	0.00
89	T	n-Butylbenzene	3.033	3.097	-2.1	46#	0.00
90	T	Hexachloroethane	0.660	0.663	-0.5	46#	0.00
91	T	1,2-Dichlorobenzene	1.395	1.391	0.3	44#	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.107	0.104	2.8	43#	0.00
93	T	1,2,4-Trichlorobenzene	0.848	0.790	6.8	41#	0.00
94	T	Hexachlorobutadiene	0.453	0.429	5.3	44#	0.00
95	T	Naphthalene	1.699	1.564	7.9	40#	0.00

Sample Results: **VY019756.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019756.D
Acq On : 02 Oct 2024 09:39
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: Oct 03 01:57:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 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	0.726	0.668	8.0	40#	0.00

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

Sample Results: **VY019756.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019756.D
Acq On : 02 Oct 2024 09:39
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: Oct 03 01:57:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 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	47	0.00
2	T	Dichlorodifluoromethane	50.000	39.572	20.9	39	0.00
3	P	Chloromethane	50.000	43.601	12.8	43	0.00
4	C	Vinyl Chloride	50.000	48.572	2.9#	45	0.00
5	T	Bromomethane	50.000	54.929	-9.9	50	0.00
6	T	Chloroethane	50.000	52.882	-5.8	49	0.00
7	T	Trichlorofluoromethane	50.000	49.500	1.0	47	0.00
8	T	Diethyl Ether	50.000	48.589	2.8	43	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.383	1.2	47	0.00
10	T	Methyl Iodide	50.000	41.201	17.6	37	0.00
11	T	Tert butyl alcohol	250.000	286.797	-14.7	50	0.02
12	CM	1,1-Dichloroethene	50.000	47.742	4.5#	44	0.00
13	T	Acrolein	250.000	105.582	57.8#	24	0.00
14	T	Allyl chloride	50.000	47.569	4.9	44	0.00
15	T	Acrylonitrile	250.000	256.470	-2.6	45	0.01
16	T	Acetone	250.000	293.808	-17.5	49	0.00
17	T	Carbon Disulfide	50.000	42.878	14.2	37	0.00
18	T	Methyl Acetate	50.000	49.811	0.4	40	0.00
19	T	Methyl tert-butyl Ether	50.000	49.999	0.0	45	0.00
20	T	Methylene Chloride	50.000	47.290	5.4	44	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.166	5.7	43	0.00
22	T	Diisopropyl ether	50.000	51.138	-2.3	46	0.00
23	T	Vinyl Acetate	250.000	253.644	-1.5	46	0.00
24	P	1,1-Dichloroethane	50.000	51.114	-2.2	46	0.00
25	T	2-Butanone	250.000	268.158	-7.3	46	0.00
26	T	2,2-Dichloropropane	50.000	67.201	-34.4#	62	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.740	-1.5	46	0.00
28	T	Bromochloromethane	50.000	61.192	-22.4	54	0.00
29	T	Tetrahydrofuran	250.000	249.932	0.0	43	0.00
30	C	Chloroform	50.000	52.827	-5.7#	48	0.00
31	T	Cyclohexane	50.000	45.440	9.1	44	0.00
32	T	1,1,1-Trichloroethane	50.000	51.856	-3.7	48	0.00
33	S	1,2-Dichloroethane-d4	50.000	57.972	-15.9	52	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	46	0.00
35	S	Dibromofluoromethane	50.000	56.315	-12.6	51	0.00
36	T	1,1-Dichloropropene	50.000	50.630	-1.3	46	0.00
37	T	Ethyl Acetate	50.000	50.714	-1.4	44	0.00
38	T	Carbon Tetrachloride	50.000	50.702	-1.4	47	0.00
39	T	Methylcyclohexane	50.000	47.529	4.9	44	0.00
40	TM	Benzene	50.000	50.062	-0.1	45	0.00
41	T	Methacrylonitrile	50.000	51.650	-3.3	42	0.00
42	TM	1,2-Dichloroethane	50.000	53.284	-6.6	48	0.00
43	T	Isopropyl Acetate	50.000	50.353	-0.7	45	0.00
44	TM	Trichloroethene	50.000	48.762	2.5	44	0.00
45	C	1,2-Dichloropropane	50.000	50.381	-0.8#	46	0.00
46	T	Dibromomethane	50.000	51.681	-3.4	45	0.00
47	T	Bromodichloromethane	50.000	52.545	-5.1	48	0.00
48	T	Methyl methacrylate	50.000	47.992	4.0	41	0.00

Sample Results: **VY019756.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019756.D
Acq On : 02 Oct 2024 09:39
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: Oct 03 01:57:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 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	1028.466	-2.8	46	0.00
50	S	Toluene-d8	50.000	54.883	-9.8	49	0.00
51	T	4-Methyl-2-Pentanone	250.000	258.362	-3.3	45	0.00
52	CM	Toluene	50.000	49.861	0.3#	45	0.00
53	T	t-1,3-Dichloropropene	50.000	76.863	-53.7#	68	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.312	1.4	44	0.00
55	T	1,1,2-Trichloroethane	50.000	50.787	-1.6	45	0.00
56	T	Ethyl methacrylate	50.000	50.485	-1.0	45	0.00
57	T	1,3-Dichloropropane	50.000	51.188	-2.4	45	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	275.270	-10.1	49	0.00
59	T	2-Hexanone	250.000	253.729	-1.5	44	0.00
60	T	Dibromochloromethane	50.000	51.731	-3.5	46	0.00
61	T	1,2-Dibromoethane	50.000	48.761	2.5	43	0.00
62	S	4-Bromofluorobenzene	50.000	52.990	-6.0	49	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	46	0.00
64	T	Tetrachloroethene	50.000	48.167	3.7	44	0.00
65	PM	Chlorobenzene	50.000	50.433	-0.9	45	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.522	-3.0	46	0.00
67	C	Ethyl Benzene	50.000	51.366	-2.7#	46	0.00
68	T	m/p-Xylenes	100.000	100.490	-0.5	45	0.00
69	T	o-Xylene	50.000	49.795	0.4	45	0.00
70	T	Styrene	50.000	50.306	-0.6	45	0.00
71	P	Bromoform	50.000	51.375	-2.8	45	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	45	0.00
73	T	Isopropylbenzene	50.000	51.071	-2.1	47	0.00
74	T	N-amyl acetate	50.000	49.388	1.2	44	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.227	-0.5	44	0.00
76	T	1,2,3-Trichloropropane	50.000	47.755	4.5	39	0.00
77	T	Bromobenzene	50.000	49.575	0.8	45	0.00
78	T	n-propylbenzene	50.000	51.496	-3.0	47	0.00
79	T	2-Chlorotoluene	50.000	50.392	-0.8	46	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.525	-1.0	46	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	47.733	4.5	42	0.00
82	T	4-Chlorotoluene	50.000	50.034	-0.1	45	0.00
83	T	tert-Butylbenzene	50.000	50.712	-1.4	46	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.586	-1.2	46	0.00
85	T	sec-Butylbenzene	50.000	50.901	-1.8	46	0.00
86	T	p-Isopropyltoluene	50.000	50.963	-1.9	46	0.00
87	T	1,3-Dichlorobenzene	50.000	50.613	-1.2	46	0.00
88	T	1,4-Dichlorobenzene	50.000	49.890	0.2	45	0.00
89	T	n-Butylbenzene	50.000	51.055	-2.1	46	0.00
90	T	Hexachloroethane	50.000	50.243	-0.5	46	0.00
91	T	1,2-Dichlorobenzene	50.000	49.855	0.3	44	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.461	3.1	43	0.00
93	T	1,2,4-Trichlorobenzene	50.000	46.569	6.9	41	0.00
94	T	Hexachlorobutadiene	50.000	47.278	5.4	44	0.00
95	T	Naphthalene	50.000	46.017	8.0	40	0.00

Sample Results: **VY019756.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019756.D
Acq On : 02 Oct 2024 09:39
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: Oct 03 01:57:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 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	46.050	7.9	40	0.00

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

Raw Data: **VY019776.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: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: MSVOA_Y Calibration Date/Time: 10/03/2024 09:44

Lab File ID: VY019776.D Init. Calib. Date(s): 09/09/2024 09/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:52 11:53

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.316	0.225		-28.8	20
Chloromethane	0.414	0.374	0.1	-9.66	20
Vinyl Chloride	0.447	0.449		0.45	20
Bromomethane	0.275	0.313		13.82	20
Chloroethane	0.292	0.328		12.33	20
Trichlorofluoromethane	0.746	0.774		3.75	20
1,1,2-Trichlorotrifluoroethane	0.461	0.483		4.77	20
1,1-Dichloroethene	0.444	0.440		-0.9	20
Acetone	0.110	0.130		18.18	20
Carbon Disulfide	1.199	1.061		-11.51	20
Methyl tert-butyl Ether	1.256	1.291		2.79	20
Methyl Acetate	0.299	0.295		-1.34	20
Methylene Chloride	0.503	0.493		-1.99	20
trans-1,2-Dichloroethene	0.486	0.487		0.21	20
1,1-Dichloroethane	0.917	0.988	0.1	7.74	20
Cyclohexane	0.829	0.771		-7	20
2-Butanone	0.157	0.168		7.01	20
Carbon Tetrachloride	0.435	0.458		5.29	20
cis-1,2-Dichloroethene	0.591	0.620		4.91	20
Bromochloromethane	0.386	0.486		25.91	20
Chloroform	0.936	1.031		10.15	20
1,1,1-Trichloroethane	0.839	0.899		7.15	20
Methylcyclohexane	0.513	0.497		-3.12	20
Benzene	1.188	1.223		2.95	20
1,2-Dichloroethane	0.320	0.348		8.75	20
Trichloroethene	0.306	0.310		1.31	20
1,2-Dichloropropane	0.290	0.304		4.83	20
Bromodichloromethane	0.427	0.457		7.03	20
4-Methyl-2-Pentanone	0.209	0.207		-0.96	20
Toluene	0.764	0.792		3.66	20
t-1,3-Dichloropropene	0.407	0.408		0.25	20
cis-1,3-Dichloropropene	0.474	0.483		1.9	20
1,1,2-Trichloroethane	0.219	0.227		3.65	20
2-Hexanone	0.153	0.149		-2.61	20
Dibromochloromethane	0.290	0.294		1.38	20
1,2-Dibromoethane	0.204	0.201		-1.47	20
Tetrachloroethene	0.310	0.310		0	20
Chlorobenzene	0.984	1.038	0.3	5.49	20

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

Raw Data: **VY019776.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: MSVOA_Y Calibration Date/Time: 10/03/2024 09:44

Lab File ID: VY019776.D Init. Calib. Date(s): 09/09/2024 09/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:52 11:53

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.748	1.867		6.81	20
m/p-Xylenes	0.661	0.692		4.69	20
o-Xylene	0.646	0.661		2.32	20
Styrene	1.091	1.135		4.03	20
Bromoform	0.195	0.187	0.1	-4.1	20
Isopropylbenzene	3.627	3.780		4.22	20
1,1,2,2-Tetrachloroethane	0.644	0.656	0.3	1.86	20
1,3-Dichlorobenzene	1.563	1.615		3.33	20
1,4-Dichlorobenzene	1.551	1.587		2.32	20
1,2-Dichlorobenzene	1.395	1.407		0.86	20
1,2-Dibromo-3-Chloropropane	0.107	0.098		-8.41	20
1,2,4-Trichlorobenzene	0.848	0.801		-5.54	20
1,2,3-Trichlorobenzene	0.726	0.670		-7.71	20
1,2-Dichloroethane-d4	0.463	0.528		14.04	20
Dibromofluoromethane	0.283	0.307		8.48	20
Toluene-d8	1.049	1.102		5.05	20
4-Bromofluorobenzene	0.403	0.401		-0.5	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\VY100324\
Data File : VY019776.D
Acq On : 03 Oct 2024 09:44
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 04 01:21:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/04/2024
Supervised By :Semsettin Yesilyurt 10/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	277386	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	478984	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	402421	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	192886	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	146597	57.074	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.140%			
35) Dibromofluoromethane	7.634	113	147181	54.195	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 108.400%			
50) Toluene-d8	10.109	98	527753	52.539	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.080%			
62) 4-Bromofluorobenzene	12.402	95	192072	49.729	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 99.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	62382	40.357	ug/l	97
3) Chloromethane	2.074	50	103723	45.196	ug/l	97
4) Vinyl Chloride	2.208	62	124518	50.176	ug/l	97
5) Bromomethane	2.598	94	86901	57.009	ug/l	100
6) Chloroethane	2.739	64	90893	56.028	ug/l	100
7) Trichlorofluoromethane	3.062	101	214578	51.872	ug/l	96
8) Diethyl Ether	3.458	74	68853	49.585	ug/l	85
9) 1,1,2-Trichlorotrifluo...	3.824	101	133849	52.305	ug/l	95
10) Methyl Iodide	4.007	142	137411	41.882	ug/l	93
11) Tert butyl alcohol	4.872	59	53621	258.502	ug/l #	82
12) 1,1-Dichloroethene	3.793	96	122188	49.649	ug/l	88
13) Acrolein	3.659	56	10668	98.125	ug/l	98
14) Allyl chloride	4.391	41	220059	49.862	ug/l #	92
15) Acrylonitrile	5.061	53	152829	255.255	ug/l	98
16) Acetone	3.873	43	180576	295.100	ug/l	88
17) Carbon Disulfide	4.110	76	294396	44.275	ug/l	99
18) Methyl Acetate	4.385	43	81857	49.294	ug/l	91
19) Methyl tert-butyl Ether	5.122	73	358116	51.378	ug/l	100
20) Methylene Chloride	4.629	84	136678	48.977	ug/l	90
21) trans-1,2-Dichloroethene	5.122	96	134989	50.042	ug/l	88
22) Diisopropyl ether	6.019	45	483478	53.347	ug/l	91
23) Vinyl Acetate	5.964	43	1340782	259.007	ug/l #	93
24) 1,1-Dichloroethane	5.921	63	274001	53.878	ug/l	99
25) 2-Butanone	6.896	43	232685	267.362	ug/l #	85
26) 2,2-Dichloropropane	6.890	77	252349	55.010	ug/l	96
27) cis-1,2-Dichloroethene	6.896	96	172113	52.526	ug/l	86
28) Bromochloromethane	7.244	49	134686	62.944	ug/l #	81
29) Tetrahydrofuran	7.262	42	130036	245.743	ug/l #	85
30) Chloroform	7.421	83	286002	55.090	ug/l	99
31) Cyclohexane	7.701	56	213793	46.509	ug/l	94
32) 1,1,1-Trichloroethane	7.622	97	249438	53.604	ug/l	95
36) 1,1-Dichloropropene	7.835	75	192300	52.038	ug/l	97
37) Ethyl Acetate	6.988	43	92312	48.754	ug/l	96
38) Carbon Tetrachloride	7.823	117	219439	52.659	ug/l	98
39) Methylcyclohexane	9.109	83	238046	48.406	ug/l	90
40) Benzene	8.079	78	585939	51.480	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019776.D
Acq On : 03 Oct 2024 09:44
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 04 01:21:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/04/2024
Supervised By :Semsettin Yesilyurt 10/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	45640	41.351	ug/l		94
42) 1,2-Dichloroethane	8.158	62	166578	54.389	ug/l		95
43) Isopropyl Acetate	8.201	43	194582	48.916	ug/l		91
44) Trichloroethene	8.866	130	148711	50.803	ug/l		90
45) 1,2-Dichloropropane	9.140	63	145409	52.257	ug/l		99
46) Dibromomethane	9.231	93	80392	52.832	ug/l		92
47) Bromodichloromethane	9.420	83	218739	53.477	ug/l		99
48) Methyl methacrylate	9.219	41	88329	47.021	ug/l		84
49) 1,4-Dioxane	9.231	88	17549	979.664	ug/l	#	88
51) 4-Methyl-2-Pentanone	10.000	43	495563	247.627	ug/l		90
52) Toluene	10.170	92	379198	51.802	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	195600	50.164	ug/l		97
54) cis-1,3-Dichloropropene	9.853	75	231321	50.949	ug/l	#	87
55) 1,1,2-Trichloroethane	10.573	97	108540	51.652	ug/l		95
56) Ethyl methacrylate	10.438	69	155340	48.664	ug/l	#	80
57) 1,3-Dichloropropane	10.719	76	183926	50.920	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	405075	273.414	ug/l		97
59) 2-Hexanone	10.762	43	357411	243.604	ug/l		89
60) Dibromochloromethane	10.908	129	140928	50.698	ug/l		100
61) 1,2-Dibromoethane	11.012	107	96485	49.279	ug/l		98
64) Tetrachloroethene	10.646	164	124715	50.046	ug/l		93
65) Chlorobenzene	11.438	112	417754	52.774	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.511	131	145811	53.201	ug/l		97
67) Ethyl Benzene	11.518	91	751430	53.425	ug/l		99
68) m/p-Xylenes	11.627	106	556737	104.682	ug/l		93
69) o-Xylene	11.950	106	265969	51.136	ug/l		92
70) Styrene	11.969	104	456809	52.019	ug/l		96
71) Bromoform	12.127	173	75068	47.954	ug/l	#	100
73) Isopropylbenzene	12.249	105	729142	52.107	ug/l		99
74) N-amyl acetate	12.066	43	179699	47.218	ug/l	#	88
75) 1,1,2,2-Tetrachloroethane	12.505	83	126477	50.922	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	84406m	46.687	ug/l		
77) Bromobenzene	12.530	156	152337	49.085	ug/l		88
78) n-propylbenzene	12.591	91	879123	53.004	ug/l		98
79) 2-Chlorotoluene	12.676	91	497182	51.437	ug/l		96
80) 1,3,5-Trimethylbenzene	12.731	105	589681	51.836	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.298	75	40693	43.210	ug/l		90
82) 4-Chlorotoluene	12.773	91	507620	51.083	ug/l		96
83) tert-Butylbenzene	12.993	119	529629	51.427	ug/l		94
84) 1,2,4-Trimethylbenzene	13.042	105	579966	51.504	ug/l		98
85) sec-Butylbenzene	13.170	105	787940	52.666	ug/l		99
86) p-Isopropyltoluene	13.286	119	642164	52.462	ug/l		96
87) 1,3-Dichlorobenzene	13.286	146	311449	51.645	ug/l		97
88) 1,4-Dichlorobenzene	13.365	146	306120	51.149	ug/l		97
89) n-Butylbenzene	13.615	91	620839	53.055	ug/l		99
90) Hexachloroethane	13.877	117	126506	49.670	ug/l		93
91) 1,2-Dichlorobenzene	13.657	146	271482	50.448	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.267	75	18899	45.656	ug/l		79
93) 1,2,4-Trichlorobenzene	14.913	180	154506	47.206	ug/l		98
94) Hexachlorobutadiene	15.017	225	85849	49.099	ug/l		98
95) Naphthalene	15.139	128	287023	43.790	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	129169	46.138	ug/l		98

Sample Results: **VY019776.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019776.D
Acq On : 03 Oct 2024 09:44
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 04 01:21:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/04/2024
Supervised By :Semsettin Yesilyurt 10/04/2024

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

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

Sample Results: **VY019776.D**

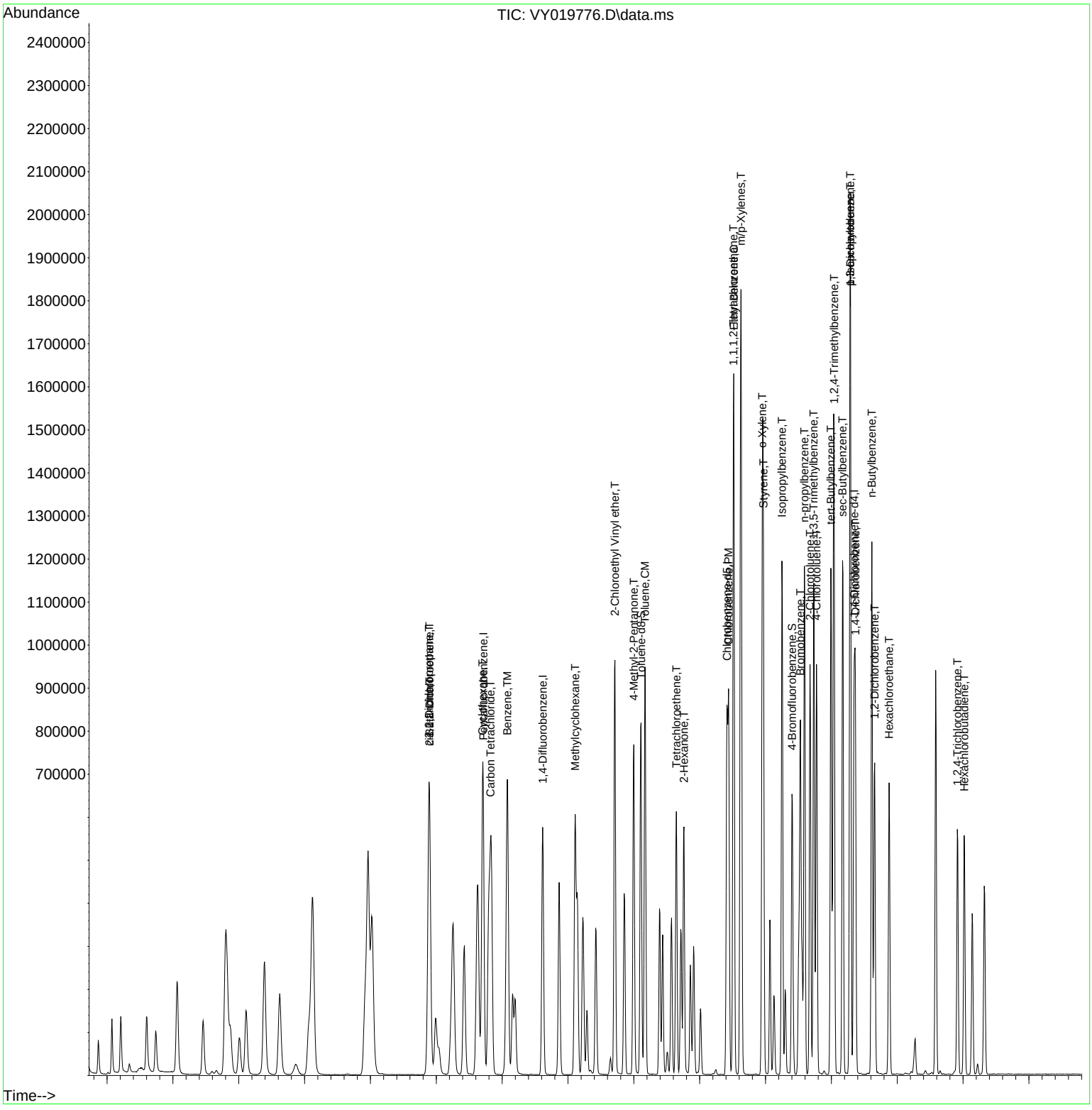
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019776.D
Acq On : 03 Oct 2024 09:44
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 04 01:21:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/04/2024
Supervised By :Semsettin Yesilyurt 10/04/2024



Sample Results: **VY019776.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019776.D
Acq On : 03 Oct 2024 09:44
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: Oct 04 01:21:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 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	41#	0.00
2	T	Dichlorodifluoromethane	0.316	0.225	28.8#	35#	0.00
3	P	Chloromethane	0.414	0.374	9.7	39#	0.00
4	C	Vinyl Chloride	0.447	0.449	-0.4#	41#	0.00
5	T	Bromomethane	0.275	0.313	-13.8	46#	0.00
6	T	Chloroethane	0.292	0.328	-12.3	46#	0.00
7	T	Trichlorofluoromethane	0.746	0.774	-3.8	44#	0.00
8	T	Diethyl Ether	0.250	0.248	0.8	39#	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.461	0.483	-4.8	44#	0.01
10	T	Methyl Iodide	0.591	0.495	16.2	33#	0.00
11	T	Tert butyl alcohol	0.037	0.039	-5.4	40#	0.01
12	CM	1,1-Dichloroethene	0.444	0.440	0.9#	41#	0.00
13	T	Acrolein	0.020	0.008	60.0#	20#	0.00
14	T	Allyl chloride	0.796	0.793	0.4	40#	0.00
15	T	Acrylonitrile	0.108	0.110	-1.9	39#	0.00
16	T	Acetone	0.110	0.130	-18.2	43#	0.00
17	T	Carbon Disulfide	1.199	1.061	11.5	34#	0.00
18	T	Methyl Acetate	0.299	0.295	1.3	35#	0.00
19	T	Methyl tert-butyl Ether	1.256	1.291	-2.8	41#	0.00
20	T	Methylene Chloride	0.503	0.493	2.0	40#	0.01
21	T	trans-1,2-Dichloroethene	0.486	0.487	-0.2	40#	0.01
22	T	Diisopropyl ether	1.634	1.743	-6.7	42#	0.00
23	T	Vinyl Acetate	0.933	0.967	-3.6	41#	0.00
24	P	1,1-Dichloroethane	0.917	0.988	-7.7	43#	0.00
25	T	2-Butanone	0.157	0.168	-7.0	41#	0.00
26	T	2,2-Dichloropropane	0.827	0.910	-10.0	45#	0.00
27	T	cis-1,2-Dichloroethene	0.591	0.620	-4.9	42#	0.00
28	T	Bromochloromethane	0.386	0.486	-25.9#	49#	0.00
29	T	Tetrahydrofuran	0.095	0.094	1.1	38#	0.00
30	C	Chloroform	0.936	1.031	-10.1#	44#	0.00
31	T	Cyclohexane	0.829	0.771	7.0	40#	0.00
32	T	1,1,1-Trichloroethane	0.839	0.899	-7.2	44#	0.00
33	S	1,2-Dichloroethane-d4	0.463	0.528	-14.0	45#	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	42#	0.00
35	S	Dibromofluoromethane	0.283	0.307	-8.5	44#	0.00
36	T	1,1-Dichloropropene	0.386	0.401	-3.9	42#	0.00
37	T	Ethyl Acetate	0.198	0.193	2.5	38#	0.00
38	T	Carbon Tetrachloride	0.435	0.458	-5.3	44#	0.00
39	T	Methylcyclohexane	0.513	0.497	3.1	40#	0.00
40	TM	Benzene	1.188	1.223	-2.9	42#	0.00
41	T	Methacrylonitrile	0.115	0.095	17.4	30#	0.00
42	TM	1,2-Dichloroethane	0.320	0.348	-8.7	44#	0.00
43	T	Isopropyl Acetate	0.415	0.406	2.2	39#	0.00
44	TM	Trichloroethene	0.306	0.310	-1.3	41#	0.00
45	C	1,2-Dichloropropane	0.290	0.304	-4.8#	43#	0.00
46	T	Dibromomethane	0.159	0.168	-5.7	42#	0.00
47	T	Bromodichloromethane	0.427	0.457	-7.0	43#	0.00
48	T	Methyl methacrylate	0.196	0.184	6.1	36#	0.00

Sample Results: **VY019776.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019776.D
Acq On : 03 Oct 2024 09:44
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: Oct 04 01:21:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	39#	0.00
50	S	Toluene-d8	1.049	1.102	-5.1	42#	0.00
51	T	4-Methyl-2-Pentanone	0.209	0.207	1.0	39#	0.00
52	CM	Toluene	0.764	0.792	-3.7#	42#	0.00
53	T	t-1,3-Dichloropropene	0.407	0.408	-0.2	40#	0.00
54	T	cis-1,3-Dichloropropene	0.474	0.483	-1.9	41#	0.00
55	T	1,1,2-Trichloroethane	0.219	0.227	-3.7	41#	0.00
56	T	Ethyl methacrylate	0.333	0.324	2.7	39#	0.00
57	T	1,3-Dichloropropane	0.377	0.384	-1.9	41#	0.00
58	T	2-Chloroethyl Vinyl ether	0.155	0.169	-9.0	44#	0.00
59	T	2-Hexanone	0.153	0.149	2.6	38#	0.00
60	T	Dibromochloromethane	0.290	0.294	-1.4	40#	0.00
61	T	1,2-Dibromoethane	0.204	0.201	1.5	39#	0.00
62	S	4-Bromofluorobenzene	0.403	0.401	0.5	42#	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	41#	0.00
64	T	Tetrachloroethene	0.310	0.310	0.0	40#	0.00
65	PM	Chlorobenzene	0.984	1.038	-5.5	42#	0.00
66	T	1,1,1,2-Tetrachloroethane	0.341	0.362	-6.2	43#	0.00
67	C	Ethyl Benzene	1.748	1.867	-6.8#	43#	0.00
68	T	m/p-Xylenes	0.661	0.692	-4.7	42#	0.00
69	T	o-Xylene	0.646	0.661	-2.3	41#	0.00
70	T	Styrene	1.091	1.135	-4.0	41#	0.00
71	P	Bromoform	0.195	0.187	4.1	37#	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	41#	0.00
73	T	Isopropylbenzene	3.627	3.780	-4.2	43#	0.00
74	T	N-amyl acetate	0.987	0.932	5.6	38#	0.00
75	P	1,1,2,2-Tetrachloroethane	0.644	0.656	-1.9	41#	0.00
76	T	1,2,3-Trichloropropane	0.469	0.438	6.6	35#	0.00
77	T	Bromobenzene	0.804	0.790	1.7	40#	0.00
78	T	n-propylbenzene	4.299	4.558	-6.0	44#	0.00
79	T	2-Chlorotoluene	2.506	2.578	-2.9	42#	0.00
80	T	1,3,5-Trimethylbenzene	2.949	3.057	-3.7	42#	0.00
81	T	trans-1,4-Dichloro-2-butene	0.244	0.211	13.5	35#	0.00
82	T	4-Chlorotoluene	2.576	2.632	-2.2	42#	0.00
83	T	tert-Butylbenzene	2.670	2.746	-2.8	42#	0.00
84	T	1,2,4-Trimethylbenzene	2.919	3.007	-3.0	42#	0.00
85	T	sec-Butylbenzene	3.878	4.085	-5.3	43#	0.00
86	T	p-Isopropyltoluene	3.173	3.329	-4.9	43#	0.00
87	T	1,3-Dichlorobenzene	1.563	1.615	-3.3	42#	0.00
88	T	1,4-Dichlorobenzene	1.551	1.587	-2.3	42#	0.00
89	T	n-Butylbenzene	3.033	3.219	-6.1	44#	0.00
90	T	Hexachloroethane	0.660	0.656	0.6	41#	0.00
91	T	1,2-Dichlorobenzene	1.395	1.407	-0.9	41#	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.107	0.098	8.4	37#	0.00
93	T	1,2,4-Trichlorobenzene	0.848	0.801	5.5	38#	0.00
94	T	Hexachlorobutadiene	0.453	0.445	1.8	41#	0.00
95	T	Naphthalene	1.699	1.488	12.4	34#	0.00

Sample Results: **VY019776.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019776.D
Acq On : 03 Oct 2024 09:44
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: Oct 04 01:21:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 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	0.726	0.670	7.7	37#	0.00

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

Evaluate Continuing Calibration Report

Sample Results: **VY019776.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019776.D
Acq On : 03 Oct 2024 09:44
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: Oct 04 01:21:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 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	41	0.00
2	T	Dichlorodifluoromethane	50.000	40.357	19.3	35	0.00
3	P	Chloromethane	50.000	45.196	9.6	39	0.00
4	C	Vinyl Chloride	50.000	50.176	-0.4#	41	0.00
5	T	Bromomethane	50.000	57.009	-14.0	46	0.00
6	T	Chloroethane	50.000	56.028	-12.1	46	0.00
7	T	Trichlorofluoromethane	50.000	51.872	-3.7	44	0.00
8	T	Diethyl Ether	50.000	49.585	0.8	39	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	52.305	-4.6	44	0.01
10	T	Methyl Iodide	50.000	41.882	16.2	33	0.00
11	T	Tert butyl alcohol	250.000	258.502	-3.4	40	0.01
12	CM	1,1-Dichloroethene	50.000	49.649	0.7#	41	0.00
13	T	Acrolein	250.000	98.125	60.8#	20	0.00
14	T	Allyl chloride	50.000	49.862	0.3	40	0.00
15	T	Acrylonitrile	250.000	255.255	-2.1	39	0.00
16	T	Acetone	250.000	295.100	-18.0	43	0.00
17	T	Carbon Disulfide	50.000	44.275	11.5	34	0.00
18	T	Methyl Acetate	50.000	49.294	1.4	35	0.00
19	T	Methyl tert-butyl Ether	50.000	51.378	-2.8	41	0.00
20	T	Methylene Chloride	50.000	48.977	2.0	40	0.01
21	T	trans-1,2-Dichloroethene	50.000	50.042	-0.1	40	0.01
22	T	Diisopropyl ether	50.000	53.347	-6.7	42	0.00
23	T	Vinyl Acetate	250.000	259.007	-3.6	41	0.00
24	P	1,1-Dichloroethane	50.000	53.878	-7.8	43	0.00
25	T	2-Butanone	250.000	267.362	-6.9	41	0.00
26	T	2,2-Dichloropropane	50.000	55.010	-10.0	45	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.526	-5.1	42	0.00
28	T	Bromochloromethane	50.000	62.944	-25.9#	49	0.00
29	T	Tetrahydrofuran	250.000	245.743	1.7	38	0.00
30	C	Chloroform	50.000	55.090	-10.2#	44	0.00
31	T	Cyclohexane	50.000	46.509	7.0	40	0.00
32	T	1,1,1-Trichloroethane	50.000	53.604	-7.2	44	0.00
33	S	1,2-Dichloroethane-d4	50.000	57.074	-14.1	45	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	42	0.00
35	S	Dibromofluoromethane	50.000	54.195	-8.4	44	0.00
36	T	1,1-Dichloropropene	50.000	52.038	-4.1	42	0.00
37	T	Ethyl Acetate	50.000	48.754	2.5	38	0.00
38	T	Carbon Tetrachloride	50.000	52.659	-5.3	44	0.00
39	T	Methylcyclohexane	50.000	48.406	3.2	40	0.00
40	TM	Benzene	50.000	51.480	-3.0	42	0.00
41	T	Methacrylonitrile	50.000	41.351	17.3	30	0.00
42	TM	1,2-Dichloroethane	50.000	54.389	-8.8	44	0.00
43	T	Isopropyl Acetate	50.000	48.916	2.2	39	0.00
44	TM	Trichloroethene	50.000	50.803	-1.6	41	0.00
45	C	1,2-Dichloropropane	50.000	52.257	-4.5#	43	0.00
46	T	Dibromomethane	50.000	52.832	-5.7	42	0.00
47	T	Bromodichloromethane	50.000	53.477	-7.0	43	0.00
48	T	Methyl methacrylate	50.000	47.021	6.0	36	0.00

Sample Results: **VY019776.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019776.D
Acq On : 03 Oct 2024 09:44
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: Oct 04 01:21:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 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	979.664	2.0	39	0.00
50	S	Toluene-d8	50.000	52.539	-5.1	42	0.00
51	T	4-Methyl-2-Pentanone	250.000	247.627	0.9	39	0.00
52	CM	Toluene	50.000	51.802	-3.6#	42	0.00
53	T	t-1,3-Dichloropropene	50.000	50.164	-0.3	40	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.949	-1.9	41	0.00
55	T	1,1,2-Trichloroethane	50.000	51.652	-3.3	41	0.00
56	T	Ethyl methacrylate	50.000	48.664	2.7	39	0.00
57	T	1,3-Dichloropropane	50.000	50.920	-1.8	41	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	273.414	-9.4	44	0.00
59	T	2-Hexanone	250.000	243.604	2.6	38	0.00
60	T	Dibromochloromethane	50.000	50.698	-1.4	40	0.00
61	T	1,2-Dibromoethane	50.000	49.279	1.4	39	0.00
62	S	4-Bromofluorobenzene	50.000	49.729	0.5	42	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	41	0.00
64	T	Tetrachloroethene	50.000	50.046	-0.1	40	0.00
65	PM	Chlorobenzene	50.000	52.774	-5.5	42	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	53.201	-6.4	43	0.00
67	C	Ethyl Benzene	50.000	53.425	-6.8#	43	0.00
68	T	m/p-Xylenes	100.000	104.682	-4.7	42	0.00
69	T	o-Xylene	50.000	51.136	-2.3	41	0.00
70	T	Styrene	50.000	52.019	-4.0	41	0.00
71	P	Bromoform	50.000	47.954	4.1	37	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	41	0.00
73	T	Isopropylbenzene	50.000	52.107	-4.2	43	0.00
74	T	N-amyl acetate	50.000	47.218	5.6	38	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.922	-1.8	41	0.00
76	T	1,2,3-Trichloropropane	50.000	46.687	6.6	35	0.00
77	T	Bromobenzene	50.000	49.085	1.8	40	0.00
78	T	n-propylbenzene	50.000	53.004	-6.0	44	0.00
79	T	2-Chlorotoluene	50.000	51.437	-2.9	42	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.836	-3.7	42	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	43.210	13.6	35	0.00
82	T	4-Chlorotoluene	50.000	51.083	-2.2	42	0.00
83	T	tert-Butylbenzene	50.000	51.427	-2.9	42	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.504	-3.0	42	0.00
85	T	sec-Butylbenzene	50.000	52.666	-5.3	43	0.00
86	T	p-Isopropyltoluene	50.000	52.462	-4.9	43	0.00
87	T	1,3-Dichlorobenzene	50.000	51.645	-3.3	42	0.00
88	T	1,4-Dichlorobenzene	50.000	51.149	-2.3	42	0.00
89	T	n-Butylbenzene	50.000	53.055	-6.1	44	0.00
90	T	Hexachloroethane	50.000	49.670	0.7	41	0.00
91	T	1,2-Dichlorobenzene	50.000	50.448	-0.9	41	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	45.656	8.7	37	0.00
93	T	1,2,4-Trichlorobenzene	50.000	47.206	5.6	38	0.00
94	T	Hexachlorobutadiene	50.000	49.099	1.8	41	0.00
95	T	Naphthalene	50.000	43.790	12.4	34	0.00

Sample Results: **VY019776.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019776.D
Acq On : 03 Oct 2024 09:44
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: Oct 04 01:21:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 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	46.138	7.7	37	0.00

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

QC SAMPLE DATA

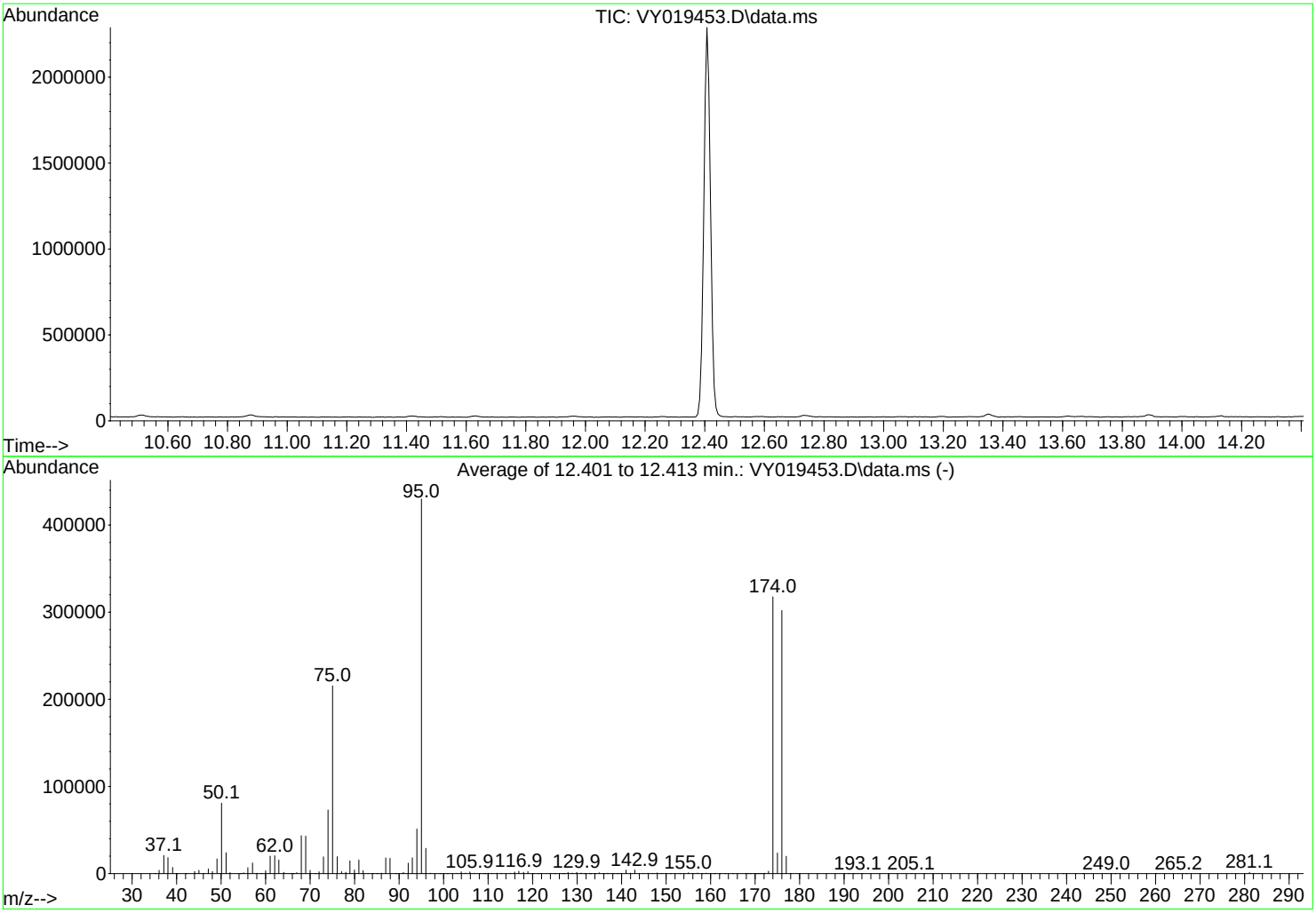
Sample Results: **VY019453.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
Data File : VY019453.D
Acq On : 09 Sep 2024 09:20
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\82Y090924S.M
Title : SW846 8260
Last Update : Mon Sep 09 16:00:30 2024



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1743

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	80903	PASS
75	95	30	60	50.1	215445	PASS
95	95	100	100	100.0	429859	PASS
96	95	5	9	6.7	28981	PASS
173	174	0.00	2	0.9	2825	PASS
174	95	50	100	73.9	317696	PASS
175	174	5	9	7.5	23725	PASS
176	174	95	101	95.1	302037	PASS
177	176	5	9	6.6	19861	PASS

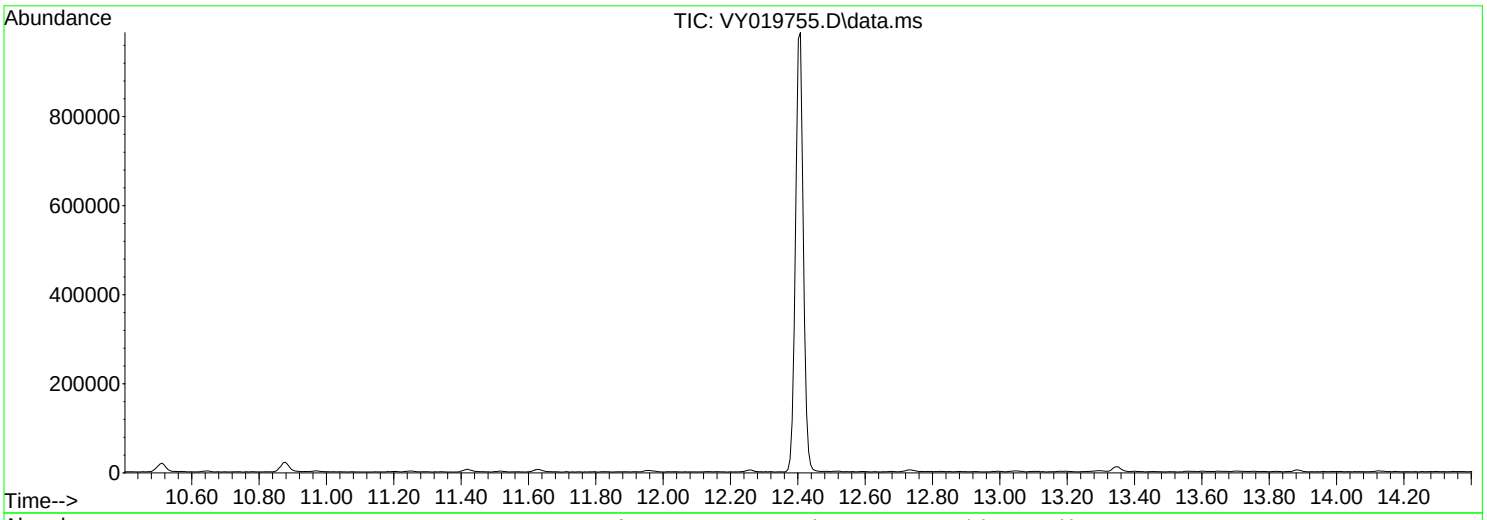
Sample Results: **VY019755.D**

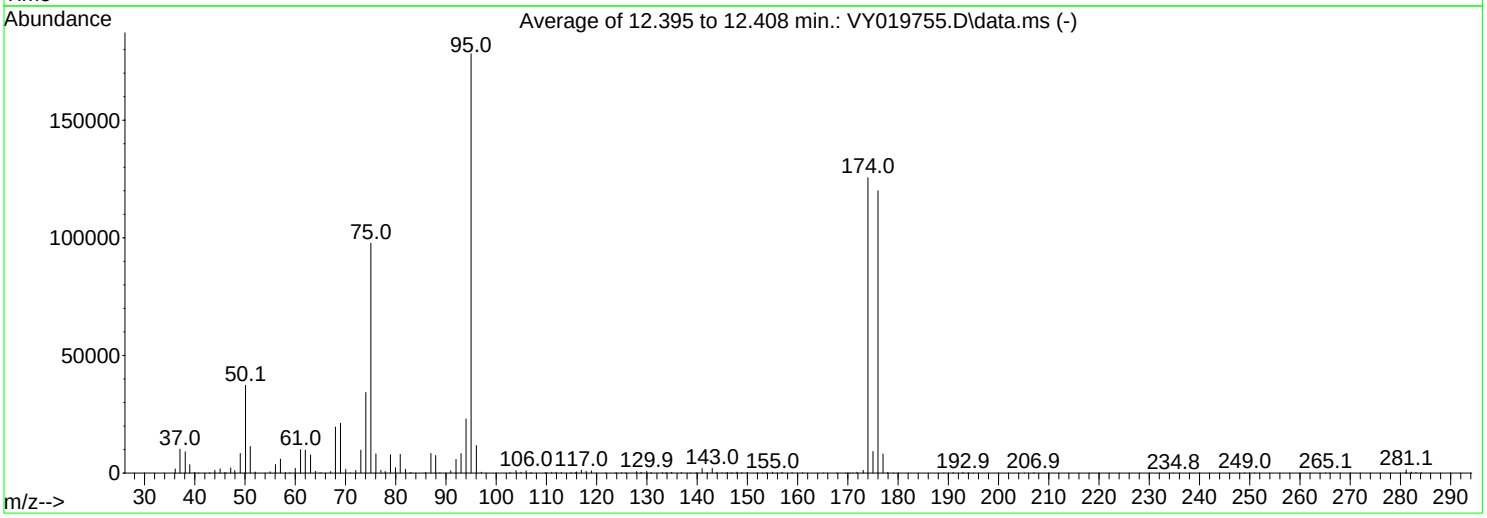
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019755.D
Acq On : 02 Oct 2024 08:37
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Title : SW846 8260
Last Update : Mon Sep 09 16:00:30 2024





AutoFind: Scans 1751, 1752, 1753; Background Corrected with Scan 1743

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	37323	PASS
75	95	30	60	54.8	97728	PASS
95	95	100	100	100.0	178261	PASS
96	95	5	9	6.6	11727	PASS
173	174	0.00	2	0.9	1182	PASS
174	95	50	100	70.4	125565	PASS
175	174	5	9	7.3	9167	PASS
176	174	95	101	95.6	120029	PASS
177	176	5	9	6.8	8104	PASS

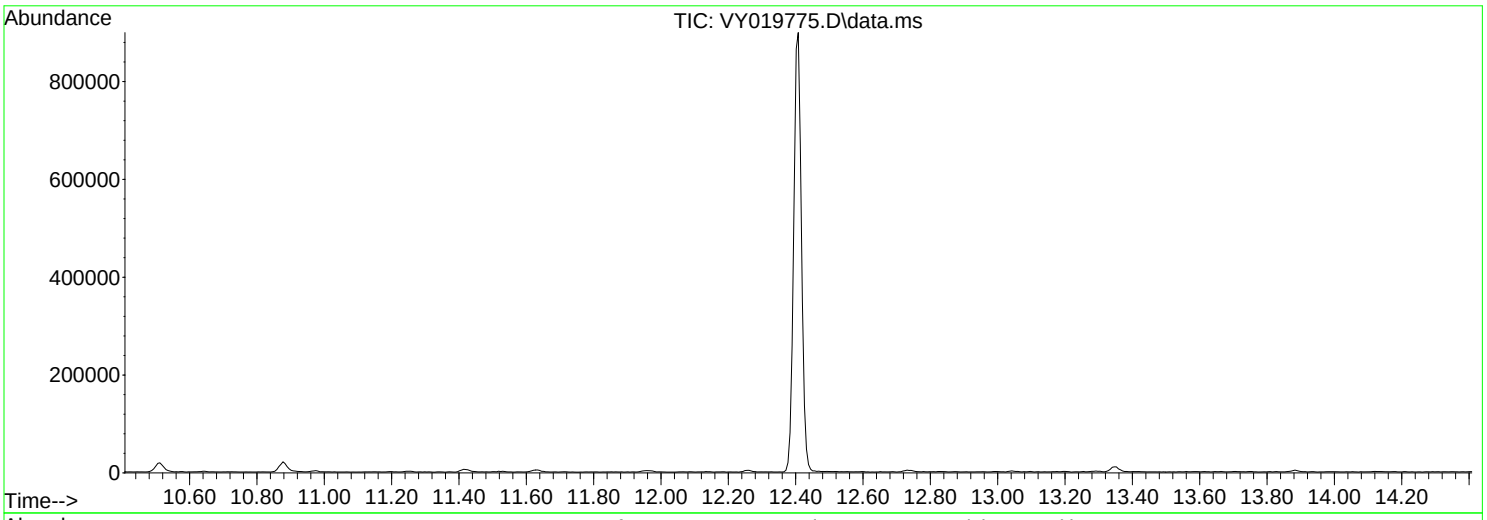
Sample Results: **VY019775.D**

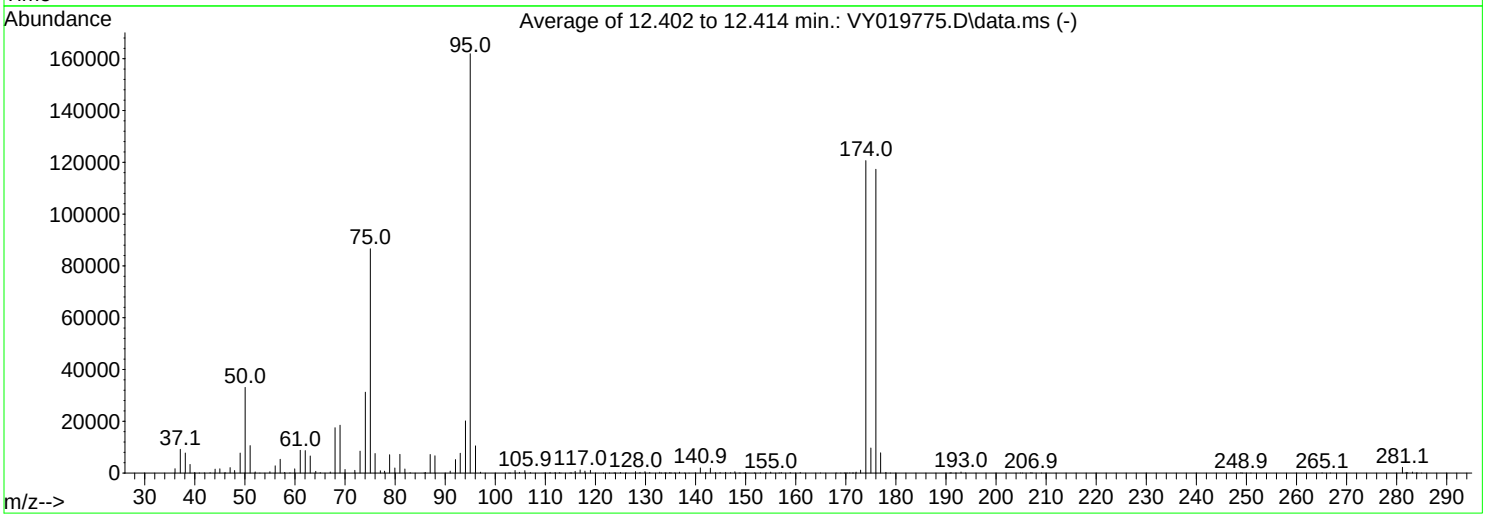
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019775.D
Acq On : 03 Oct 2024 08:34
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Title : SW846 8260
Last Update : Mon Sep 09 16:00:30 2024





AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1743

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.4	33093	PASS
75	95	30	60	53.5	86619	PASS
95	95	100	100	100.0	161925	PASS
96	95	5	9	6.5	10511	PASS
173	174	0.00	2	0.9	1132	PASS
174	95	50	100	74.5	120632	PASS
175	174	5	9	8.0	9676	PASS
176	174	95	101	97.3	117317	PASS
177	176	5	9	6.7	7827	PASS

Raw Data: **VY019757.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	VY1002SBL01	SDG No.:	P4258
Lab Sample ID:	VY1002SBL01	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
VY019757.D	1		10/02/24 10:13	VY100224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

Raw Data: **VY019757.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	VY1002SBL01	SDG No.:	P4258
Lab Sample ID:	VY1002SBL01	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
VY019757.D	1		10/02/24 10:13	VY100224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	63.4		50 - 163	127%	SPK: 50
1868-53-7	Dibromofluoromethane	55.5		54 - 147	111%	SPK: 50
2037-26-5	Toluene-d8	56.5		58 - 134	113%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.1		29 - 146	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	286000	7.713			
540-36-3	1,4-Difluorobenzene	552000	8.616			
3114-55-4	Chlorobenzene-d5	483000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	170000	13.346			

Raw Data: **VY019757.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	VY1002SBL01	SDG No.:	P4258
Lab Sample ID:	VY1002SBL01	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
VY019757.D	1		10/02/24 10:13	VY100224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Sample Results: **VY019757.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019757.D
Acq On : 02 Oct 2024 10:13
Operator : SY/MD
Sample : VY1002SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBL01

Quant Time: Oct 03 01:58:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

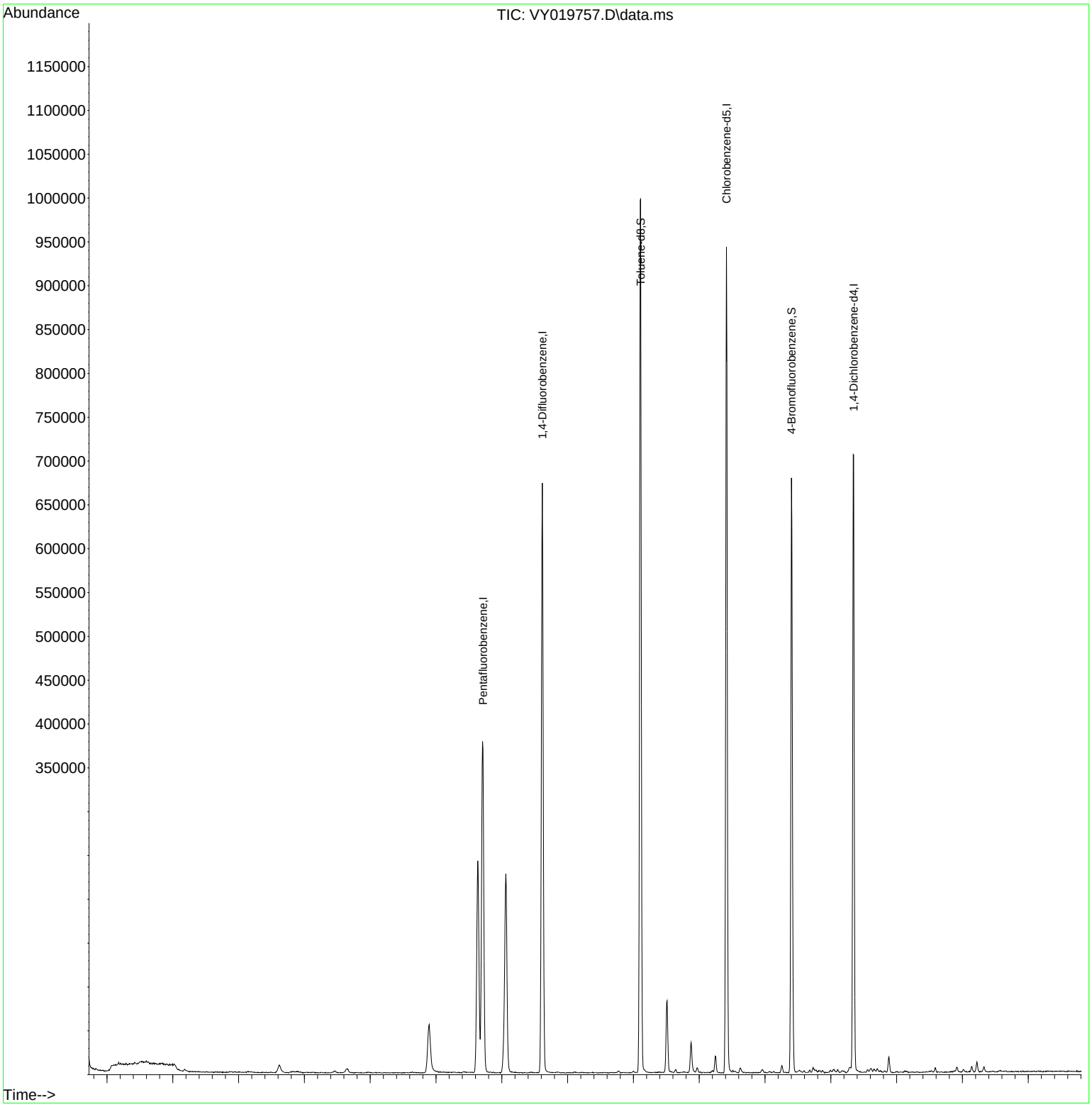
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	286214	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	551968	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	482661	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	169673	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	167942	63.368	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 126.740%			
35) Dibromofluoromethane	7.634	113	173639	55.484	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 110.960%			
50) Toluene-d8	10.109	98	654579	56.549	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 113.100%			
62) 4-Bromofluorobenzene	12.402	95	204991	46.056	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 92.120%			
Target Compounds						Qvalue

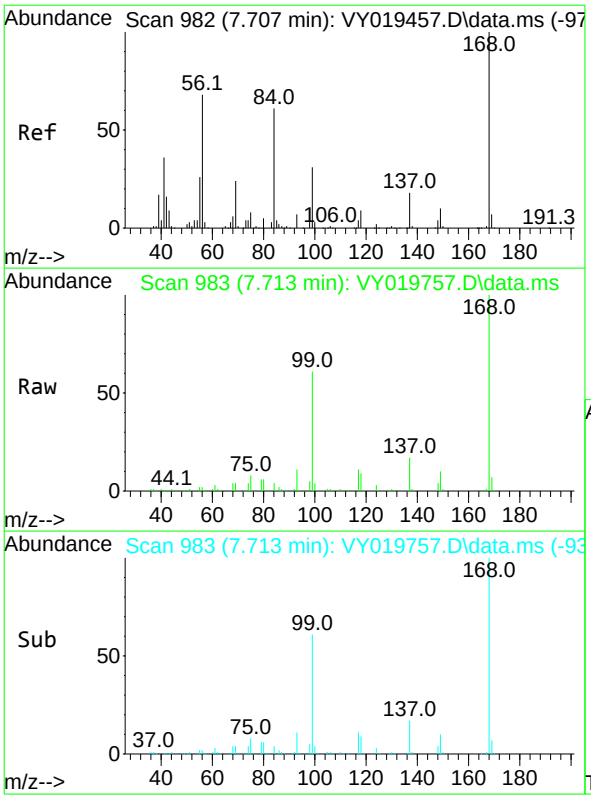
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019757.D
Acq On : 02 Oct 2024 10:13
Operator : SY/MD
Sample : VY1002SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBL01

Quant Time: Oct 03 01:58:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration



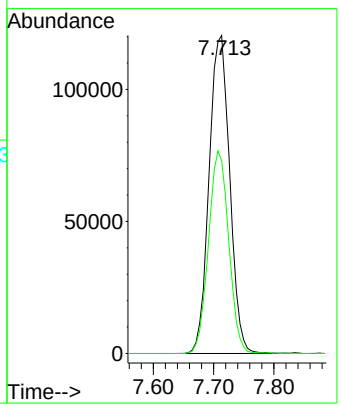


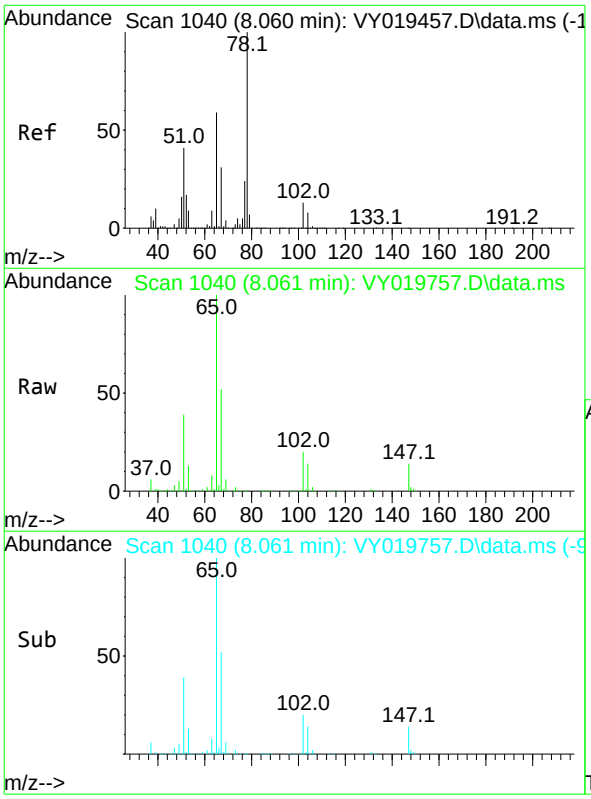
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBL01

Tgt Ion:168 Resp: 286214

Ion	Ratio	Lower	Upper
168	100		
99	60.6	39.1	58.7#

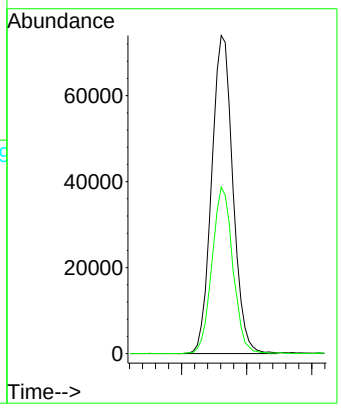


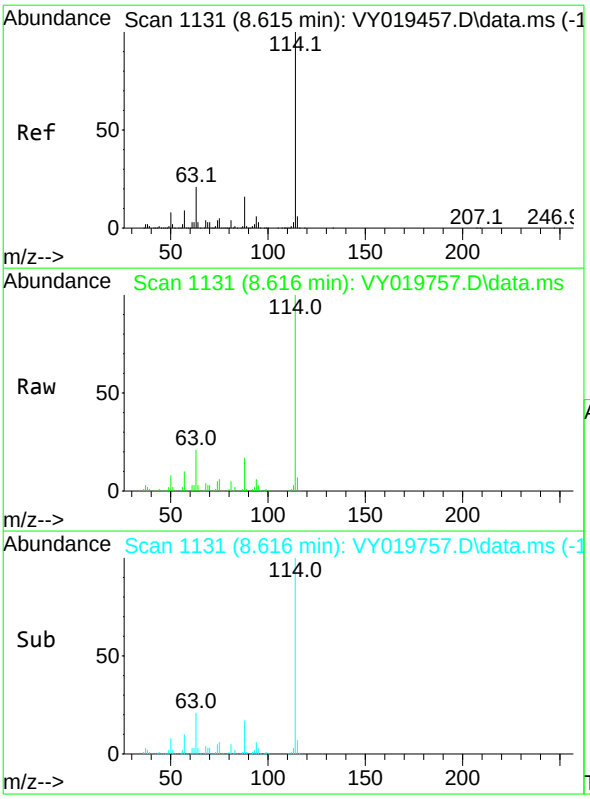


#33
1,2-Dichloroethane-d4
Concen: 63.368 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

Tgt Ion: 65 Resp: 167942

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	109.6



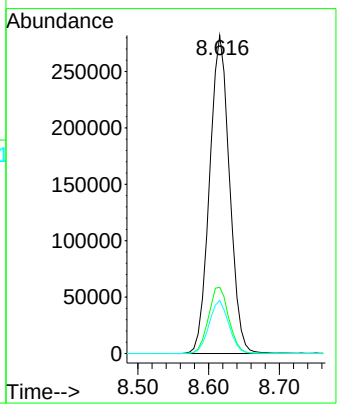


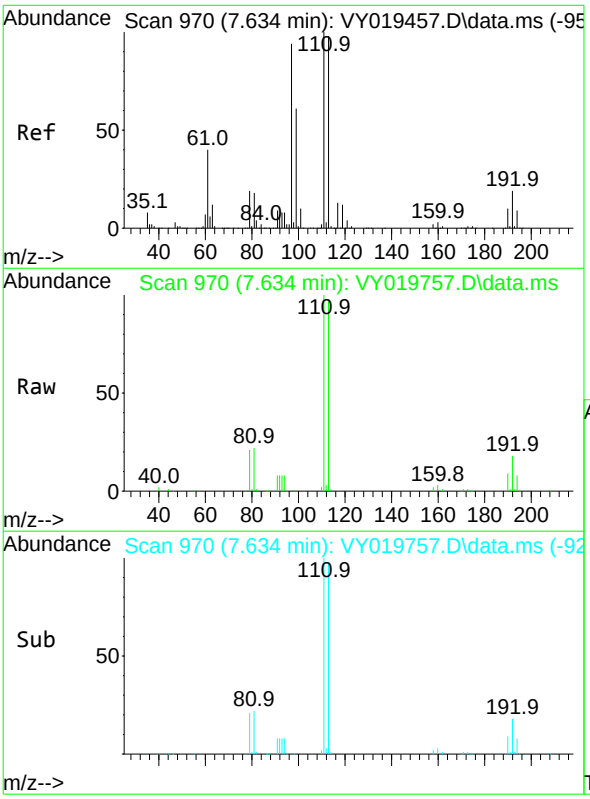
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBL01

Tgt Ion:114 Resp: 551968

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	35.0
88	16.7	0.0	27.2

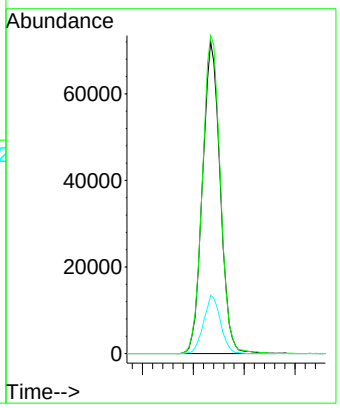


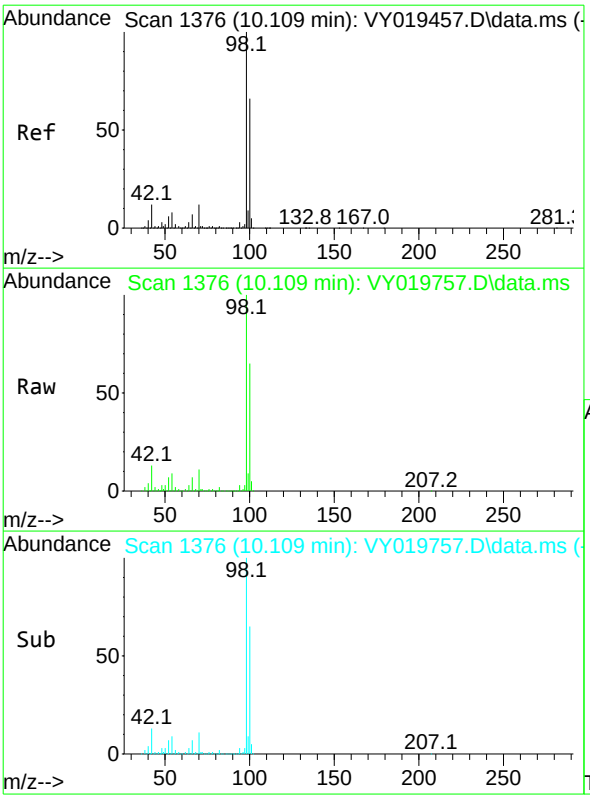


#35
Dibromofluoromethane
Concen: 55.484 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

Tgt Ion:113 Resp: 173639

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.2	123.4
192	17.9	15.9	23.9



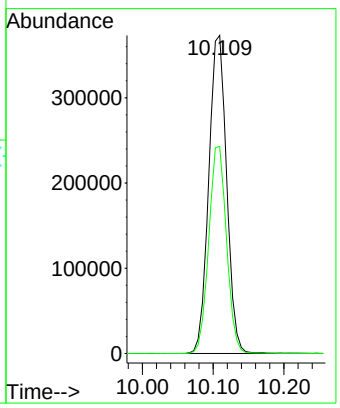


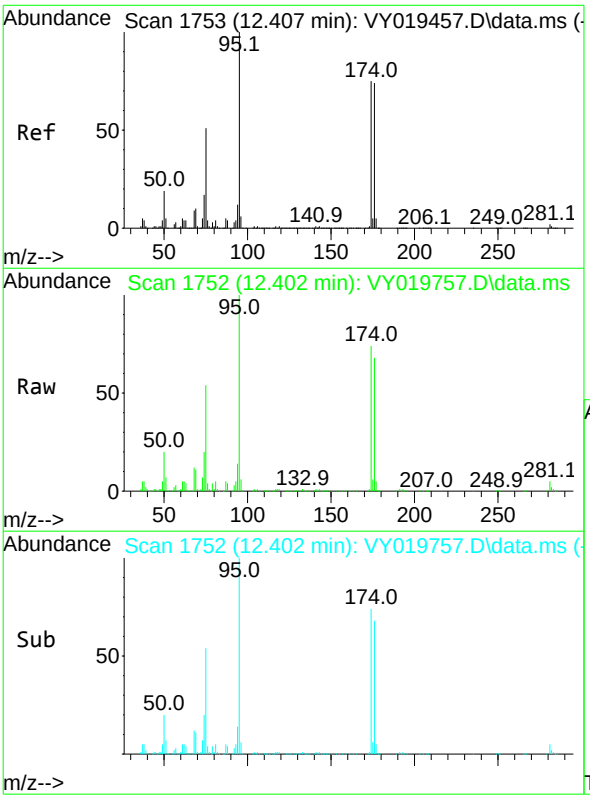
#50
Toluene-d8
Concen: 56.549 ug/l
RT: 10.109 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBL01

Tgt Ion: 98 Resp: 654579

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.0	78.0

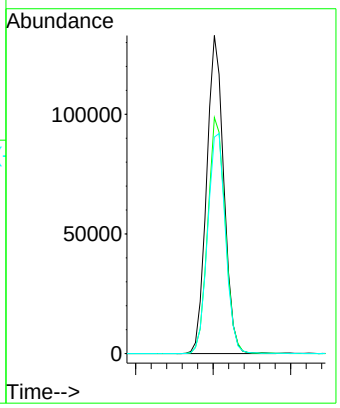


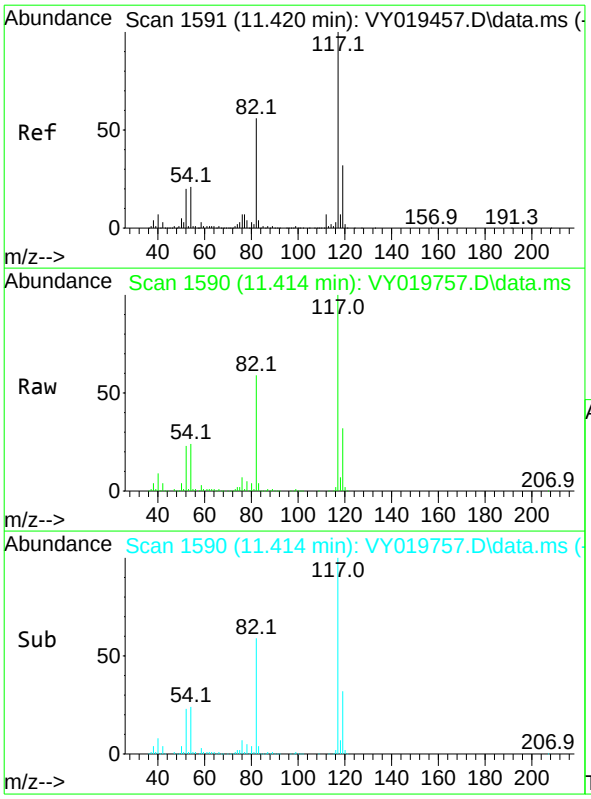


#62
4-Bromofluorobenzene
Concen: 46.056 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

Tgt Ion: 95 Resp: 204991

Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	175.6
176	72.1	0.0	171.4



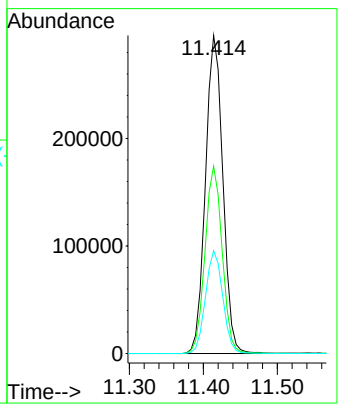


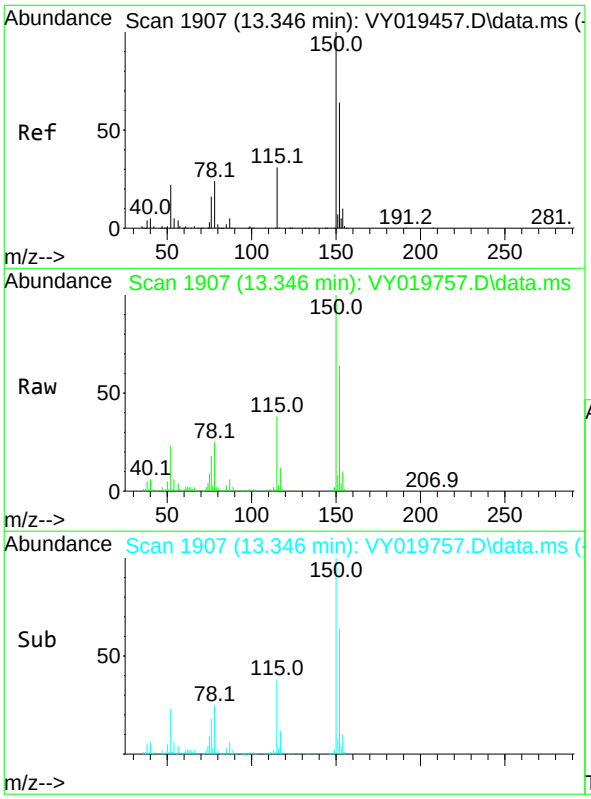
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBL01

Tgt Ion:117 Resp: 482661

Ion	Ratio	Lower	Upper
117	100		
82	58.9	42.4	63.6
119	32.3	25.9	38.9

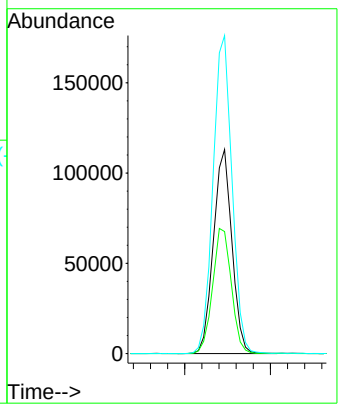




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

Tgt Ion:152 Resp: 169673

Ion	Ratio	Lower	Upper
152	100		
115	62.1	28.2	84.7
150	159.5	0.0	345.6



Sample Results: **VY019757.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019757.D
Acq On : 02 Oct 2024 10:13
Operator : SY/MD
Sample : VY1002SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBL01

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\82Y090924S.M
Title : SW846 8260

Signal : TIC: VY019757.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	465	475	484	rBV4	8798	28099	1.59%	0.298%
2	6.896	834	849	863	rBV	55104	179700	10.17%	1.905%
3	7.634	959	970	976	rBV	241788	581728	32.93%	6.165%
4	7.707	976	982	994	rVB	377132	893058	50.55%	9.465%
5	8.061	1026	1040	1051	rBV2	227259	581590	32.92%	6.164%
6	8.616	1121	1131	1148	rBV	672838	1324041	74.94%	14.033%
7	10.109	1367	1376	1392	rBV	997249	1766815	100.00%	18.726%
8	10.512	1435	1442	1449	rBV	81629	151037	8.55%	1.601%
9	10.877	1494	1502	1509	rBV3	34280	64343	3.64%	0.682%
10	11.243	1558	1562	1571	rVB2	19229	32775	1.86%	0.347%
11	11.414	1583	1590	1604	rBV	942133	1537524	87.02%	16.295%
12	12.402	1745	1752	1762	rBV2	678649	1128678	63.88%	11.962%
13	13.340	1900	1906	1921	rVB	704386	1117288	63.24%	11.842%
14	13.883	1989	1995	2002	rVB2	17654	28783	1.63%	0.305%
15	15.218	2209	2214	2221	rVB	11788	19854	1.12%	0.210%

Sum of corrected areas: 9435313

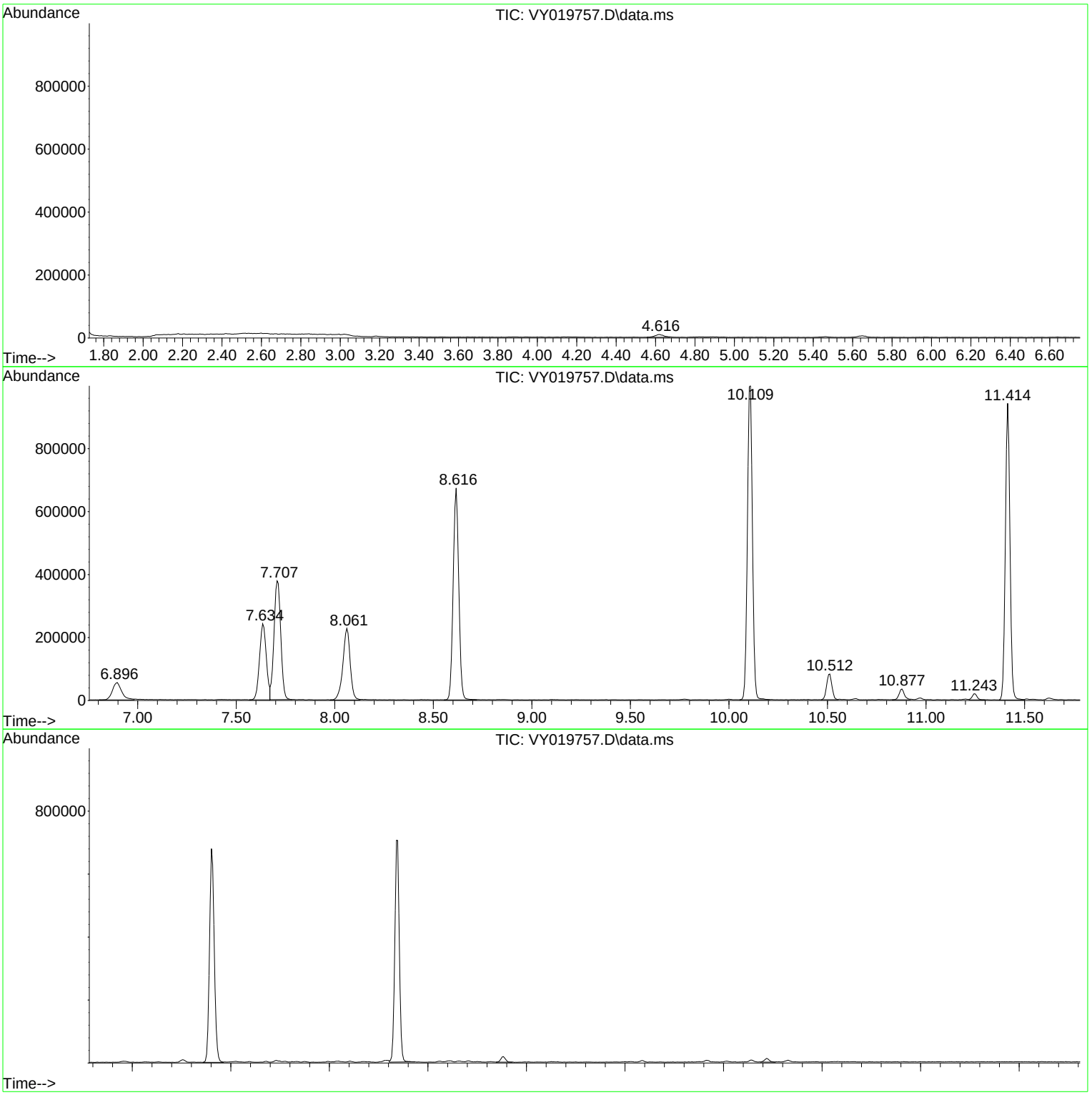
Sample Results: **VY019757.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019757.D
Acq On : 02 Oct 2024 10:13
Operator : SY/MD
Sample : VY1002SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019757.D
Acq On : 02 Oct 2024 10:13
Operator : SY/MD
Sample : VY1002SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019757.D
Acq On : 02 Oct 2024 10:13
Operator : SY/MD
Sample : VY1002SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

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

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

Raw Data: **VY019777.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	VY1003SBL01	SDG No.:	P4258
Lab Sample ID:	VY1003SBL01	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
VY019777.D	1		10/03/24 10:17	VY100324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	VY1003SBL01	SDG No.:	P4258
Lab Sample ID:	VY1003SBL01	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
VY019777.D	1		10/03/24 10:17	VY100324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	61.3		50 - 163	123%	SPK: 50
1868-53-7	Dibromofluoromethane	55.4		54 - 147	111%	SPK: 50
2037-26-5	Toluene-d8	56.9		58 - 134	114%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		29 - 146	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	268000	7.707			
540-36-3	1,4-Difluorobenzene	512000	8.616			
3114-55-4	Chlorobenzene-d5	450000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	161000	13.346			

Raw Data: **VY019777.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	VY1003SBL01	SDG No.:	P4258
Lab Sample ID:	VY1003SBL01	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
VY019777.D	1		10/03/24 10:17	VY100324

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\VY100324\
Data File : VY019777.D
Acq On : 03 Oct 2024 10:17
Operator : SY/MD
Sample : VY1003SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1003SBL01

Quant Time: Oct 04 01:22:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

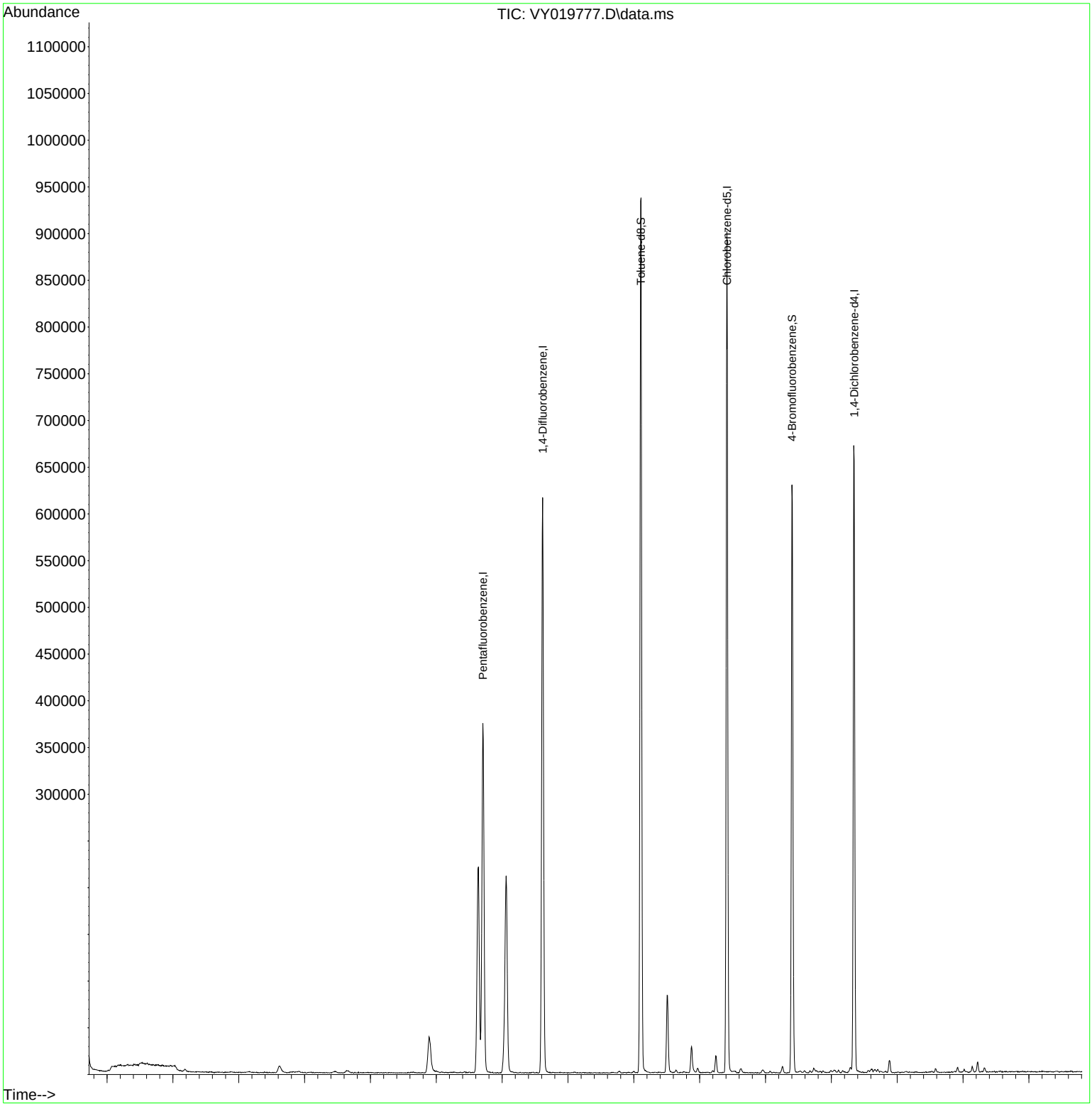
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	267988	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	512122	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	450147	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	160873	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	152175	61.324	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 122.640%			
35) Dibromofluoromethane	7.640	113	160925	55.422	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 110.840%			
50) Toluene-d8	10.109	98	611282	56.917	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 113.840%			
62) 4-Bromofluorobenzene	12.401	95	191072	46.269	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 92.540%			
Target Compounds						Qvalue

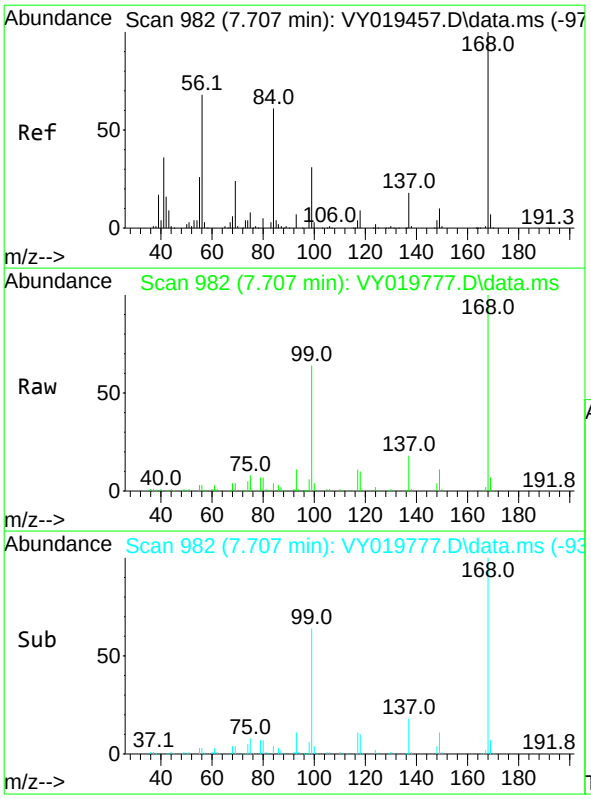
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019777.D
Acq On : 03 Oct 2024 10:17
Operator : SY/MD
Sample : VY1003SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1003SBL01

Quant Time: Oct 04 01:22:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration



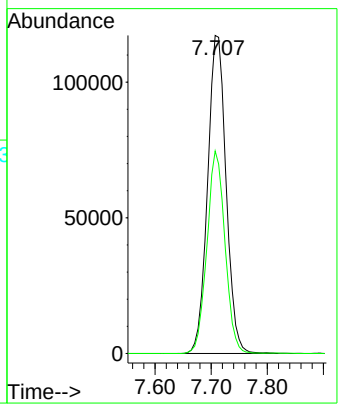


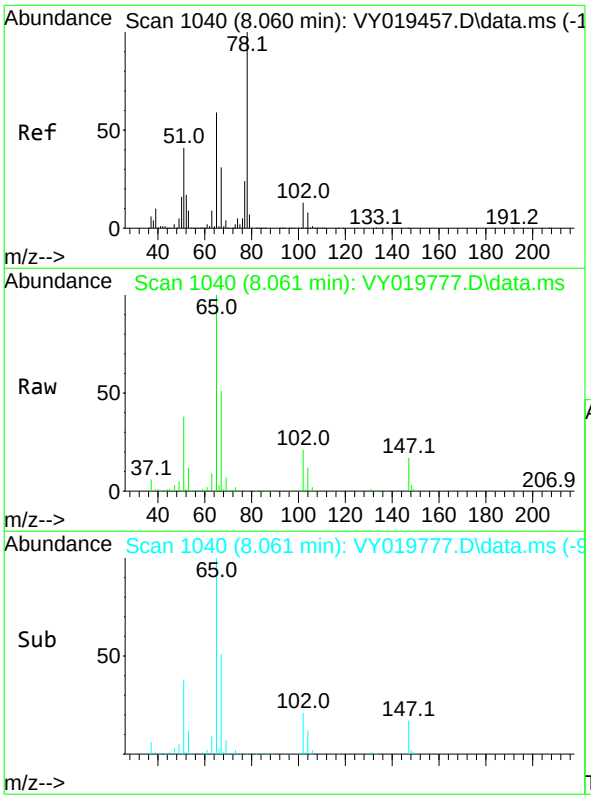
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VY1003SBL01

Tgt Ion:168 Resp: 267988

Ion	Ratio	Lower	Upper
168	100		
99	63.7	39.1	58.7#

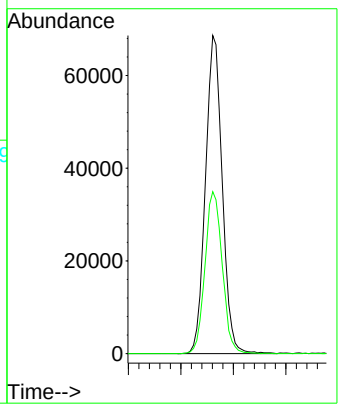


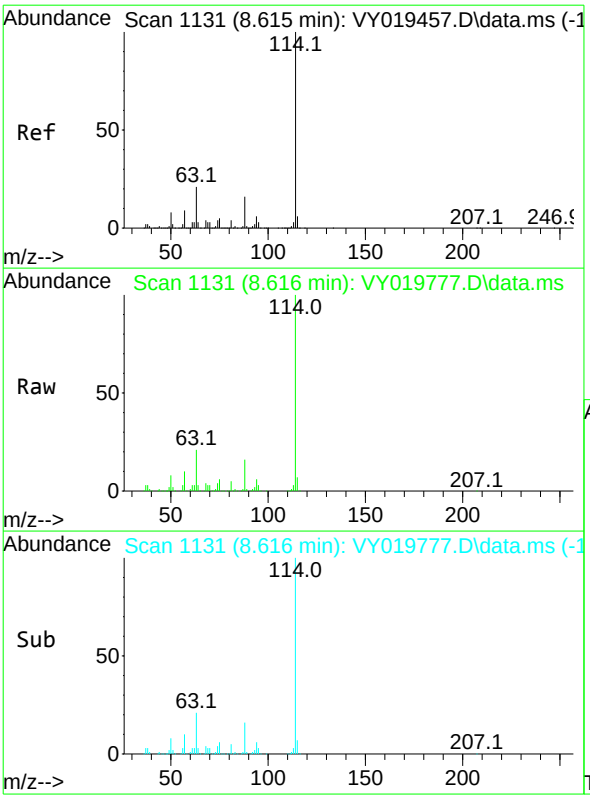


#33
1,2-Dichloroethane-d4
Concen: 61.324 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

Tgt Ion: 65 Resp: 152175

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	109.6



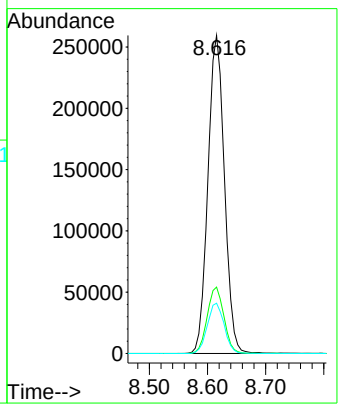


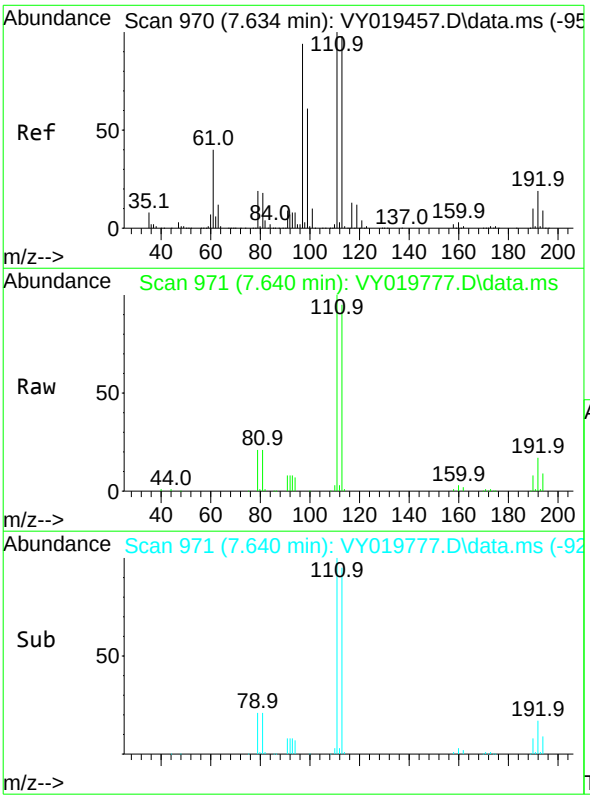
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VY1003SBL01

Tgt Ion:114 Resp: 512122

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	35.0
88	15.8	0.0	27.2

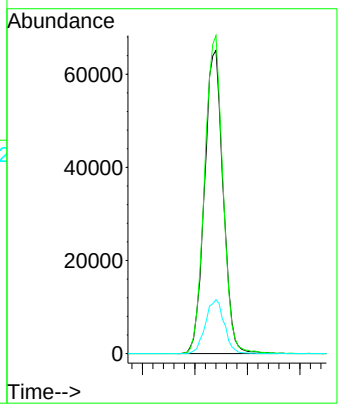


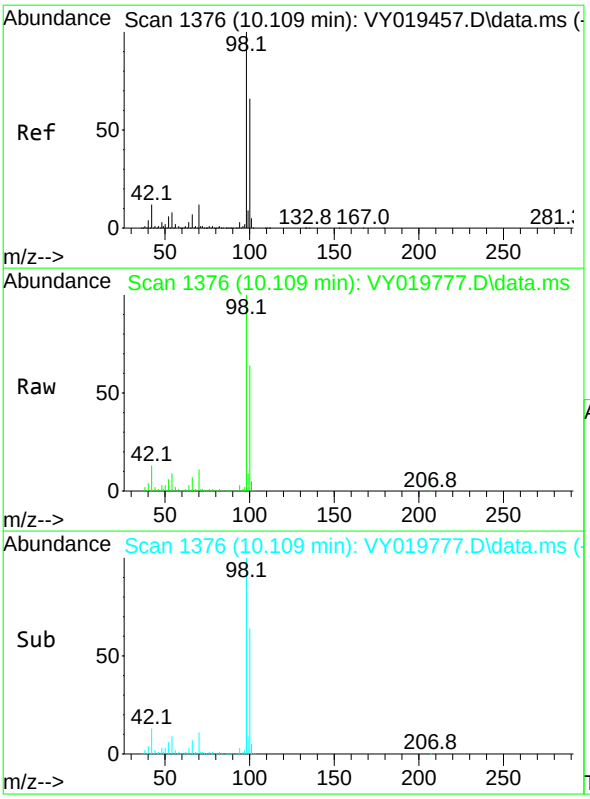


#35
Dibromofluoromethane
Concen: 55.422 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

Tgt Ion:113 Resp: 160925

Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.2	123.4
192	17.9	15.9	23.9



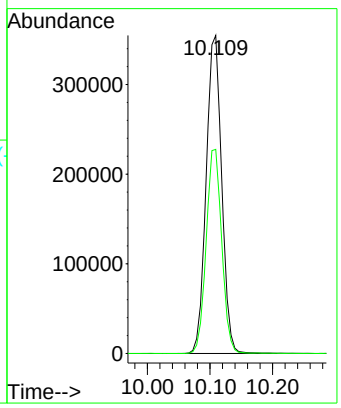


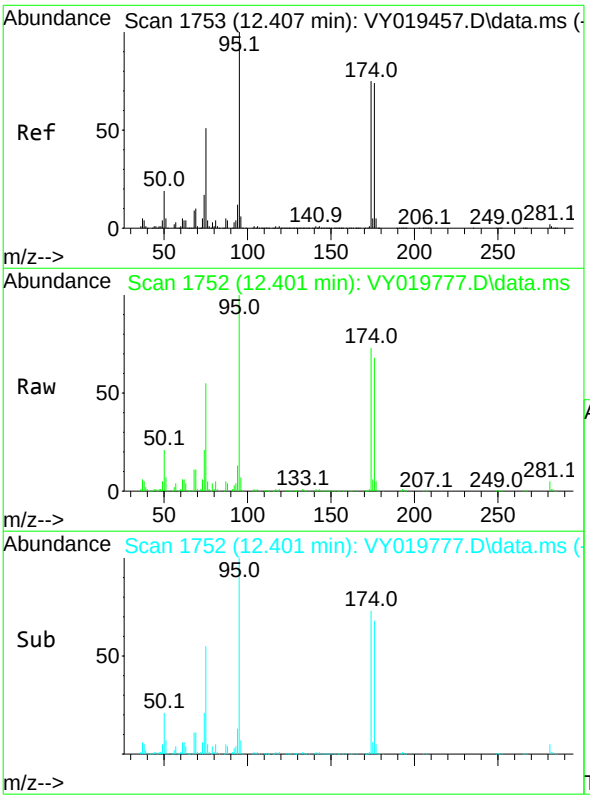
#50
Toluene-d8
Concen: 56.917 ug/l
RT: 10.109 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VY1003SBL01

Tgt Ion: 98 Resp: 611282

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.0	78.0

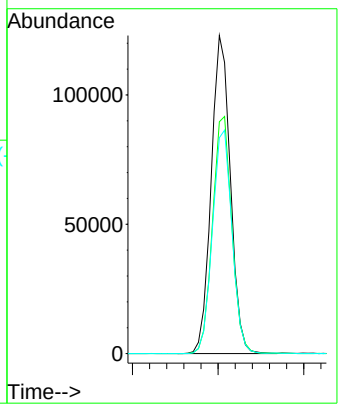


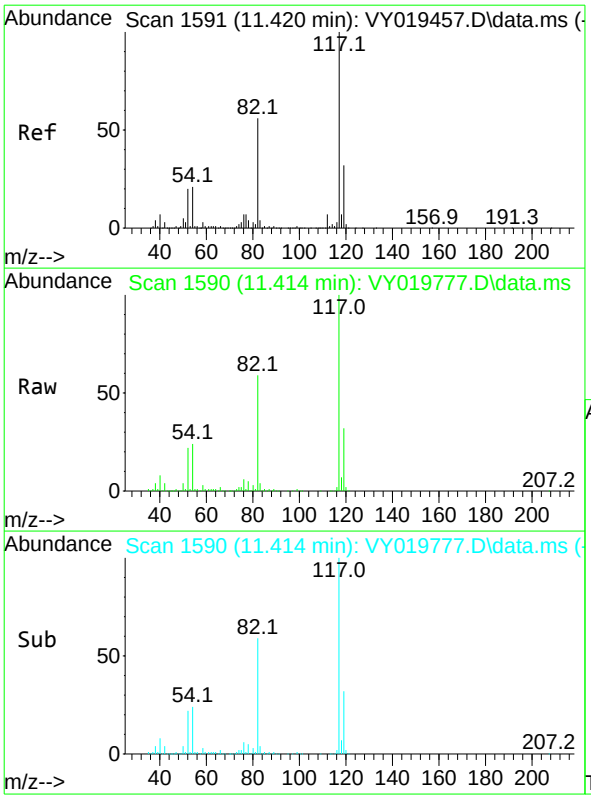


#62
4-Bromofluorobenzene
Concen: 46.269 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

Tgt Ion: 95 Resp: 191072

Ion	Ratio	Lower	Upper
95	100		
174	75.1	0.0	175.6
176	71.7	0.0	171.4



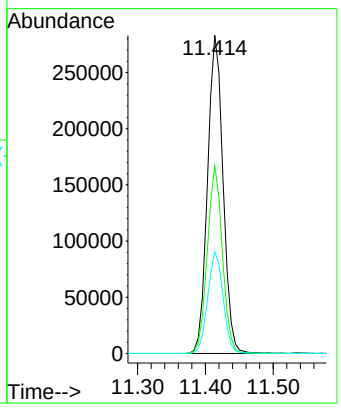


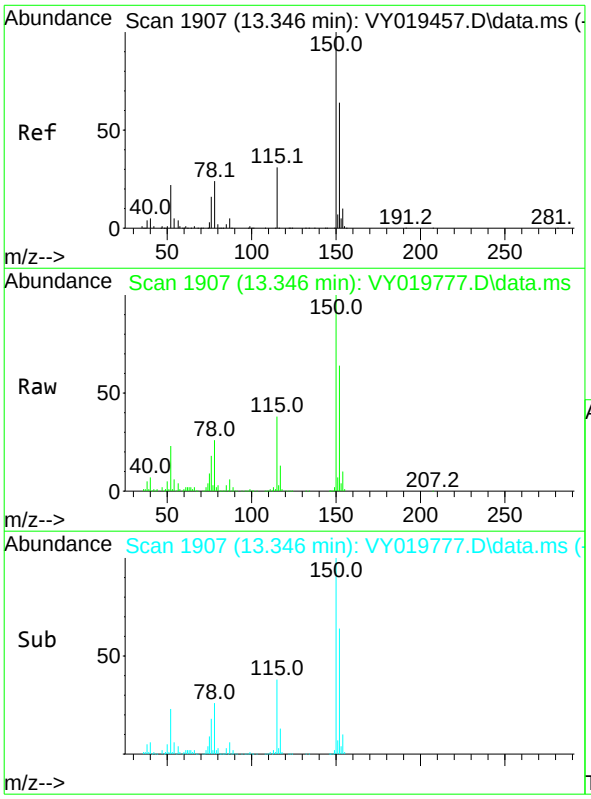
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VY1003SBL01

Tgt Ion:117 Resp: 450147

Ion	Ratio	Lower	Upper
117	100		
82	58.9	42.4	63.6
119	32.0	25.9	38.9

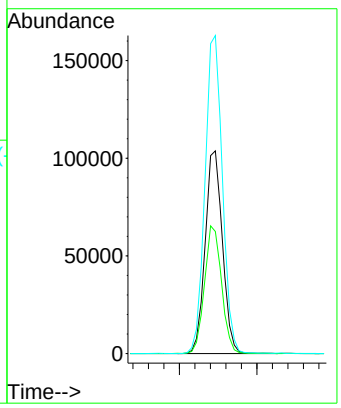




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

Tgt Ion:152 Resp: 160873

Ion	Ratio	Lower	Upper
152	100		
115	62.2	28.2	84.7
150	157.9	0.0	345.6



Sample Results: **VY019777.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019777.D
Acq On : 03 Oct 2024 10:17
Operator : SY/MD
Sample : VY1003SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1003SBL01

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\82Y090924S.M
Title : SW846 8260

Signal : TIC: VY019777.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.622	466	476	484	rBV5	7159	24540	1.49%	0.280%
2	6.890	836	848	863	rBV	38704	128494	7.81%	1.468%
3	7.640	959	971	976	rBV	220387	539202	32.78%	6.160%
4	7.707	976	982	995	rVB	373257	837922	50.94%	9.573%
5	8.061	1027	1040	1052	rBV2	210849	548000	33.31%	6.260%
6	8.616	1121	1131	1142	rBV	615910	1226009	74.53%	14.006%
7	10.109	1367	1376	1386	rBV	936561	1645076	100.00%	18.794%
8	10.505	1433	1441	1449	rBV	82723	155680	9.46%	1.779%
9	10.877	1495	1502	1512	rBV	27938	54521	3.31%	0.623%
10	11.243	1558	1562	1571	rVB2	18291	31794	1.93%	0.363%
11	11.414	1582	1590	1602	rBV	900493	1423111	86.51%	16.258%
12	12.401	1745	1752	1762	rBV2	629124	1046882	63.64%	11.960%
13	13.340	1900	1906	1916	rVB	670030	1050083	63.83%	11.996%
14	13.883	1990	1995	2002	rVB	12944	23563	1.43%	0.269%
15	15.224	2207	2215	2220	rVB3	10854	18508	1.13%	0.211%

Sum of corrected areas: 8753385

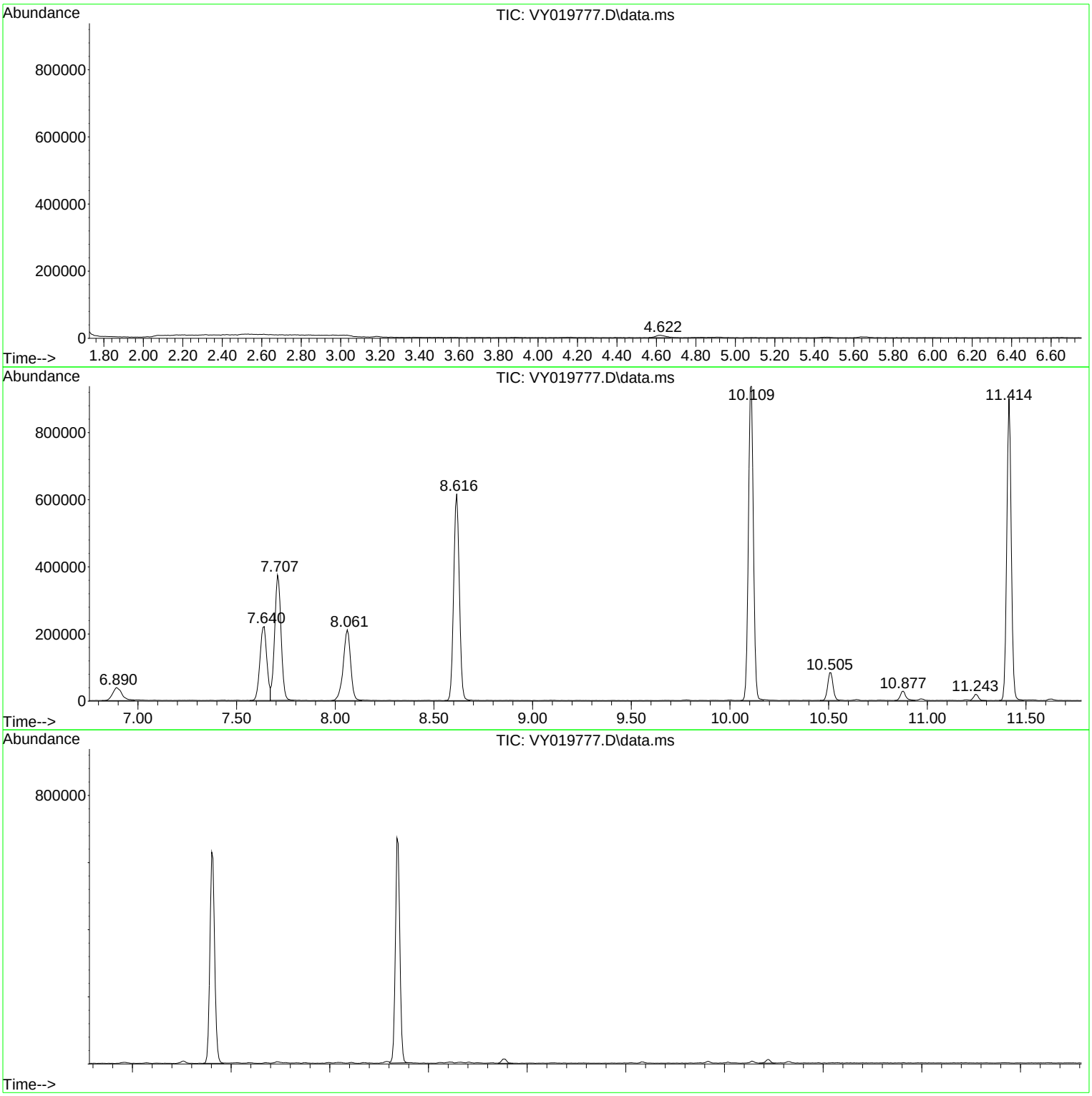
Sample Results: **VY019777.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019777.D
Acq On : 03 Oct 2024 10:17
Operator : SY/MD
Sample : VY1003SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1003SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY019777.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019777.D
Acq On : 03 Oct 2024 10:17
Operator : SY/MD
Sample : VY1003SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1003SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019777.D
Acq On : 03 Oct 2024 10:17
Operator : SY/MD
Sample : VY1003SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1003SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

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

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

Raw Data: **VY019769.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	VY1002SBS02	SDG No.:	P4258
Lab Sample ID:	VY1002SBS02	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
VY019769.D	1		10/02/24 16:56	VY100224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.4		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.3		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.6		0.77	5.00	ug/Kg
74-83-9	Bromomethane	23.1		1.00	5.00	ug/Kg
75-00-3	Chloroethane	21.6		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.4		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.9		0.78	5.00	ug/Kg
67-64-1	Acetone	130		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	12.8		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	23.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	22.4		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	22.7		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	18.7		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.4		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	17.7		0.69	5.00	ug/Kg
78-93-3	2-Butanone	120		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.3		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.6		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	21.5		2.40	5.00	ug/Kg
67-66-3	Chloroform	23.8		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	22.5		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.4		0.87	5.00	ug/Kg
71-43-2	Benzene	20.3		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	23.0		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.5		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	22.3		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	22.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	20.5		0.67	5.00	ug/Kg

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	VY1002SBS02	SDG No.:	P4258
Lab Sample ID:	VY1002SBS02	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
VY019769.D	1		10/02/24 16:56	VY100224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.7		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.5		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	23.0		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.7		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	21.6		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.7		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	21.5		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.1		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.9		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.8		0.70	5.00	ug/Kg
100-42-5	Styrene	21.0		0.60	5.00	ug/Kg
75-25-2	Bromoform	21.0		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.2		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	23.0		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.3		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.3		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.5		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.4		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.0		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.9		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.7		50 - 163	119%	SPK: 50
1868-53-7	Dibromofluoromethane	54.0		54 - 147	108%	SPK: 50
2037-26-5	Toluene-d8	52.1		58 - 134	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		29 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	266000	7.707			
540-36-3	1,4-Difluorobenzene	469000	8.616			
3114-55-4	Chlorobenzene-d5	395000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	189000	13.34			

Raw Data: **VY019769.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	VY1002SBS02	SDG No.:	P4258
Lab Sample ID:	VY1002SBS02	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
VY019769.D	1		10/02/24 16:56	VY100224

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\VY100224\
Data File : VY019769.D
Acq On : 02 Oct 2024 16:56
Operator : SY/MD
Sample : VY1002SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 03 02:05:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBS02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	265847	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	469139	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	394802	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	189008	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	147052	59.736	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 119.480%			
35) Dibromofluoromethane	7.634	113	143687	54.019	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 108.040%			
50) Toluene-d8	10.103	98	512402	52.081	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.160%			
62) 4-Bromofluorobenzene	12.402	95	188139	49.733	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 99.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	33161	20.397	ug/l	94
3) Chloromethane	2.068	50	42431	19.291	ug/l	99
4) Vinyl Chloride	2.202	62	48953	20.583	ug/l	98
5) Bromomethane	2.592	94	33687	23.059	ug/l	98
6) Chloroethane	2.733	64	33561	21.585	ug/l	98
7) Trichlorofluoromethane	3.056	101	84979	21.434	ug/l	93
8) Diethyl Ether	3.458	74	28359	21.309	ug/l	86
9) 1,1,2-Trichlorotrifluo...	3.812	101	53520	21.822	ug/l	94
10) Methyl Iodide	4.007	142	48071	15.288	ug/l	93
11) Tert butyl alcohol	4.878	59	33432	168.168	ug/l	99
12) 1,1-Dichloroethene	3.787	96	44653	18.932	ug/l	87
13) Acrolein	3.665	56	9672	92.004	ug/l	96
14) Allyl chloride	4.385	41	82184	19.430	ug/l #	92
15) Acrylonitrile	5.061	53	69116	120.448	ug/l	98
16) Acetone	3.873	43	74387	126.841	ug/l #	84
17) Carbon Disulfide	4.110	76	81719	12.823	ug/l	99
18) Methyl Acetate	4.391	43	35680	22.419	ug/l	92
19) Methyl tert-butyl Ether	5.122	73	154047	23.060	ug/l	96
20) Methylene Chloride	4.622	84	60640	22.673	ug/l #	90
21) trans-1,2-Dichloroethene	5.116	96	48410	18.725	ug/l	92
22) Diisopropyl ether	6.025	45	199133	22.926	ug/l	93
23) Vinyl Acetate	5.964	43	554846	111.835	ug/l #	93
24) 1,1-Dichloroethane	5.921	63	109164	22.397	ug/l	96
25) 2-Butanone	6.903	43	103183	123.707	ug/l #	87
26) 2,2-Dichloropropane	6.890	77	99517	22.635	ug/l	93
27) cis-1,2-Dichloroethene	6.896	96	67872	21.613	ug/l	85
28) Bromochloromethane	7.250	49	44060	21.485	ug/l	81
29) Tetrahydrofuran	7.268	42	57340	113.065	ug/l	86
30) Chloroform	7.421	83	118411	23.798	ug/l	96
31) Cyclohexane	7.701	56	77891	17.680	ug/l	95
32) 1,1,1-Trichloroethane	7.622	97	100220	22.472	ug/l	96
36) 1,1-Dichloropropene	7.835	75	69773	19.277	ug/l	96
37) Ethyl Acetate	6.988	43	42610	22.977	ug/l	98
38) Carbon Tetrachloride	7.817	117	82848	20.298	ug/l	98
39) Methylcyclohexane	9.109	83	84038	17.447	ug/l	91
40) Benzene	8.085	78	226600	20.327	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019769.D
Acq On : 02 Oct 2024 16:56
Operator : SY/MD
Sample : VY1002SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 03 02:05:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBS02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.226	41	24222	22.407 ug/l #	85
42) 1,2-Dichloroethane	8.158	62	68869	22.958 ug/l	96
43) Isopropyl Acetate	8.201	43	87258	22.396 ug/l #	89
44) Trichloroethene	8.866	130	55940	19.511 ug/l	87
45) 1,2-Dichloropropane	9.140	63	60729	22.283 ug/l	97
46) Dibromomethane	9.231	93	32729	21.960 ug/l	94
47) Bromodichloromethane	9.420	83	90942	22.700 ug/l	97
48) Methyl methacrylate	9.219	41	38102	20.709 ug/l	85
49) 1,4-Dioxane	9.231	88	7836	446.621 ug/l #	89
51) 4-Methyl-2-Pentanone	9.993	43	223605	114.077 ug/l	91
52) Toluene	10.170	92	147219	20.533 ug/l	97
53) t-1,3-Dichloropropene	10.390	75	79233	20.747 ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	91096	20.485 ug/l #	87
55) 1,1,2-Trichloroethane	10.573	97	47304	22.984 ug/l	98
56) Ethyl methacrylate	10.438	69	65261	20.874 ug/l #	78
57) 1,3-Dichloropropane	10.713	76	79814	22.560 ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	155306	107.027 ug/l	96
59) 2-Hexanone	10.756	43	156027	108.576 ug/l	89
60) Dibromochloromethane	10.908	129	59136	21.720 ug/l	99
61) 1,2-Dibromoethane	11.012	107	41347	21.561 ug/l	98
64) Tetrachloroethene	10.646	164	50500	20.656 ug/l	95
65) Chlorobenzene	11.438	112	166719	21.468 ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.511	131	59970	22.303 ug/l	97
67) Ethyl Benzene	11.518	91	291817	21.148 ug/l	98
68) m/p-Xylenes	11.627	106	213225	40.866 ug/l	91
69) o-Xylene	11.950	106	105971	20.767 ug/l	93
70) Styrene	11.963	104	181325	21.047 ug/l	95
71) Bromoform	12.127	173	32274	21.015 ug/l #	95
73) Isopropylbenzene	12.249	105	290217	21.165 ug/l	99
74) N-amyl acetate	12.066	43	78028	20.924 ug/l #	88
75) 1,1,2,2-Tetrachloroethane	12.505	83	55925	22.978 ug/l	100
76) 1,2,3-Trichloropropane	12.548	75	35835m	20.228 ug/l	
77) Bromobenzene	12.530	156	63112	20.753 ug/l	88
78) n-propylbenzene	12.591	91	345001	21.228 ug/l	99
79) 2-Chlorotoluene	12.676	91	198636	20.972 ug/l	97
80) 1,3,5-Trimethylbenzene	12.731	105	234253	21.014 ug/l	95
81) trans-1,4-Dichloro-2-b...	12.298	75	17321	18.770 ug/l	89
82) 4-Chlorotoluene	12.773	91	203745	20.924 ug/l	95
83) tert-Butylbenzene	12.993	119	220468	21.847 ug/l	96
84) 1,2,4-Trimethylbenzene	13.036	105	229709	20.818 ug/l	96
85) sec-Butylbenzene	13.170	105	313731	21.400 ug/l	99
86) p-Isopropyltoluene	13.286	119	255890	21.334 ug/l	96
87) 1,3-Dichlorobenzene	13.279	146	126148	21.347 ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	124892	21.296 ug/l	95
89) n-Butylbenzene	13.615	91	246675	21.513 ug/l	99
90) Hexachloroethane	13.877	117	51835	20.770 ug/l	90
91) 1,2-Dichlorobenzene	13.651	146	113462	21.517 ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.267	75	8667	21.367 ug/l	79
93) 1,2,4-Trichlorobenzene	14.913	180	60884	18.984 ug/l	97
94) Hexachlorobutadiene	15.017	225	34131	19.921 ug/l	98
95) Naphthalene	15.139	128	116851	18.193 ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	51767	18.870 ug/l	95

Sample Results: **VY019769.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019769.D
Acq On : 02 Oct 2024 16:56
Operator : SY/MD
Sample : VY1002SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 03 02:05:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBS02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024

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

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

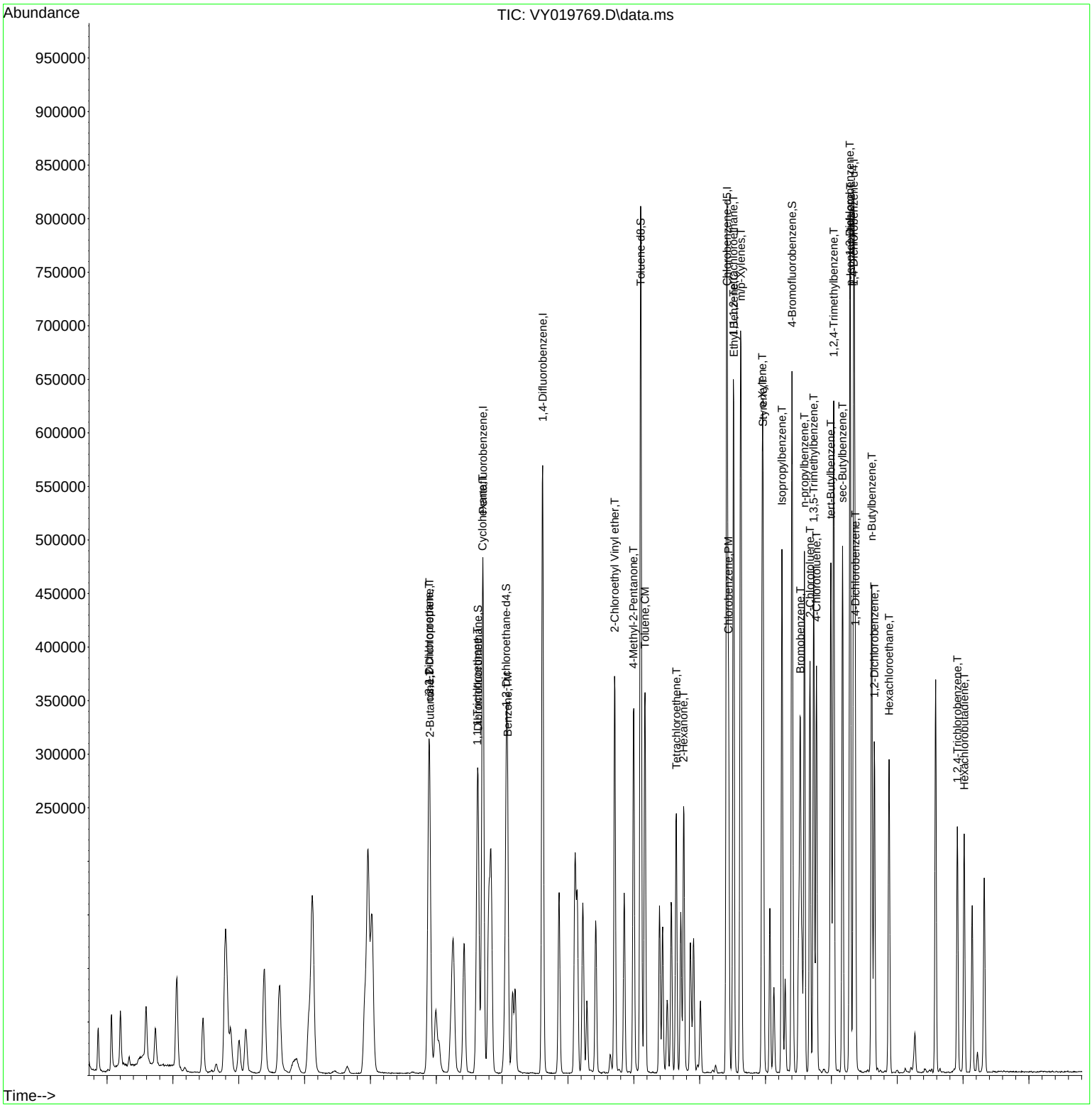
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019769.D
Acq On : 02 Oct 2024 16:56
Operator : SY/MD
Sample : VY1002SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 03 02:05:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBS02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024



Raw Data: **VY019778.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	VY1003SBS01	SDG No.:	P4258
Lab Sample ID:	VY1003SBS01	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
VY019778.D	1		10/03/24 11:01	VY100324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.3		1.70	5.00	ug/Kg
74-87-3	Chloromethane	17.2		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.8		0.77	5.00	ug/Kg
74-83-9	Bromomethane	21.7		1.00	5.00	ug/Kg
75-00-3	Chloroethane	21.0		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.6		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.5		0.78	5.00	ug/Kg
67-64-1	Acetone	130		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	11.8		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.0		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.9		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	18.4		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.8		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	17.4		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.9		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.9		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	21.1		2.40	5.00	ug/Kg
67-66-3	Chloroform	22.8		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	22.0		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	16.9		0.87	5.00	ug/Kg
71-43-2	Benzene	20.1		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.5		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.3		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.2		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.8		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	96.9		4.40	25.0	ug/Kg
108-88-3	Toluene	19.7		0.67	5.00	ug/Kg

Raw Data: **VY019778.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	VY1003SBS01	SDG No.:	P4258
Lab Sample ID:	VY1003SBS01	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
VY019778.D	1		10/03/24 11:01	VY100324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.7		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.5		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.4		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	98.3		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.6		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.2		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.8		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	21.1		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.7		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.4		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.6		0.70	5.00	ug/Kg
100-42-5	Styrene	20.4		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.1		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	22.1		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.5		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.7		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.7		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.8		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.3		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.8		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.2		50 - 163	120%	SPK: 50
1868-53-7	Dibromofluoromethane	56.9		54 - 147	114%	SPK: 50
2037-26-5	Toluene-d8	55.6		58 - 134	111%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		29 - 146	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	265000	7.707			
540-36-3	1,4-Difluorobenzene	468000	8.615			
3114-55-4	Chlorobenzene-d5	392000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	181000	13.346			

Raw Data: **VY019778.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	VY1003SBS01	SDG No.:	P4258
Lab Sample ID:	VY1003SBS01	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
VY019778.D	1		10/03/24 11:01	VY100324

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\VY100324\
Data File : VY019778.D
Acq On : 03 Oct 2024 11:01
Operator : SY/MD
Sample : VY1003SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 04 01:22:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1003SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/04/2024
Supervised By :Semsettin Yesilyurt 10/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	265491	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	467884	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	391562	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	181129	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	148068	60.230	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 120.460%			
35) Dibromofluoromethane	7.634	113	151062	56.944	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 113.880%			
50) Toluene-d8	10.103	98	545411	55.585	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 111.180%			
62) 4-Bromofluorobenzene	12.401	95	198123	52.513	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 105.020%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	32963	20.282	ug/l	96
3) Chloromethane	2.074	50	37698	17.162	ug/l	100
4) Vinyl Chloride	2.208	62	44743	18.838	ug/l	99
5) Bromomethane	2.598	94	31592	21.654	ug/l	99
6) Chloroethane	2.738	64	32637	21.019	ug/l	96
7) Trichlorofluoromethane	3.062	101	81559	20.599	ug/l	98
8) Diethyl Ether	3.464	74	26101	19.639	ug/l	83
9) 1,1,2-Trichlorotrifluo...	3.818	101	52406	21.396	ug/l	94
10) Methyl Iodide	4.007	142	46109	14.683	ug/l	91
11) Tert butyl alcohol	4.872	59	24640	124.109	ug/l #	84
12) 1,1-Dichloroethene	3.793	96	43623	18.520	ug/l	86
13) Acrolein	3.665	56	8446	78.541	ug/l	95
14) Allyl chloride	4.391	41	80441	19.043	ug/l #	92
15) Acrylonitrile	5.067	53	59212	103.327	ug/l	98
16) Acetone	3.872	43	74433	127.089	ug/l #	81
17) Carbon Disulfide	4.110	76	75134	11.806	ug/l	97
18) Methyl Acetate	4.391	43	28668	18.037	ug/l	90
19) Methyl tert-butyl Ether	5.122	73	140929	21.125	ug/l	99
20) Methylene Chloride	4.622	84	53273	19.945	ug/l	90
21) trans-1,2-Dichloroethene	5.122	96	47588	18.432	ug/l	93
22) Diisopropyl ether	6.018	45	193614	22.321	ug/l	89
23) Vinyl Acetate	5.964	43	505388	102.003	ug/l	93
24) 1,1-Dichloroethane	5.915	63	106291	21.837	ug/l	95
25) 2-Butanone	6.890	43	93526	112.279	ug/l #	82
26) 2,2-Dichloropropane	6.884	77	98832	22.510	ug/l	94
27) cis-1,2-Dichloroethene	6.890	96	65631	20.927	ug/l	86
28) Bromochloromethane	7.244	49	43248	21.117	ug/l #	81
29) Tetrahydrofuran	7.262	42	48967	96.684	ug/l #	85
30) Chloroform	7.421	83	113342	22.810	ug/l	97
31) Cyclohexane	7.701	56	76341	17.351	ug/l	95
32) 1,1,1-Trichloroethane	7.616	97	97967	21.996	ug/l	96
36) 1,1-Dichloropropene	7.841	75	68482	18.972	ug/l	94
37) Ethyl Acetate	6.988	43	36337	19.647	ug/l	97
38) Carbon Tetrachloride	7.817	117	80948	19.886	ug/l	96
39) Methylcyclohexane	9.109	83	81244	16.913	ug/l	90
40) Benzene	8.085	78	223076	20.064	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019778.D
Acq On : 03 Oct 2024 11:01
Operator : SY/MD
Sample : VY1003SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 04 01:22:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1003SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/04/2024
Supervised By :Semsettin Yesilyurt 10/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.225	41	23957	22.221	ug/l	#	80
42) 1,2-Dichloroethane	8.158	62	64404	21.527	ug/l		94
43) Isopropyl Acetate	8.195	43	73733	18.975	ug/l	#	91
44) Trichloroethene	8.865	130	55251	19.323	ug/l		95
45) 1,2-Dichloropropane	9.140	63	57553	21.174	ug/l		96
46) Dibromomethane	9.225	93	30205	20.321	ug/l		93
47) Bromodichloromethane	9.426	83	87237	21.834	ug/l		99
48) Methyl methacrylate	9.219	41	33155	18.069	ug/l		83
49) 1,4-Dioxane	9.231	88	6951	397.242	ug/l	#	94
51) 4-Methyl-2-Pentanone	9.999	43	189493	96.934	ug/l		90
52) Toluene	10.170	92	140908	19.706	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	75078	19.712	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	86327	19.465	ug/l	#	86
55) 1,1,2-Trichloroethane	10.572	97	43850	21.363	ug/l		96
56) Ethyl methacrylate	10.438	69	57132	18.323	ug/l	#	79
57) 1,3-Dichloropropane	10.713	76	73186	20.742	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	140033	96.761	ug/l		98
59) 2-Hexanone	10.761	43	140882	98.300	ug/l		87
60) Dibromochloromethane	10.908	129	55979	20.616	ug/l		100
61) 1,2-Dibromoethane	11.011	107	36748	19.214	ug/l		99
64) Tetrachloroethene	10.646	164	45528	18.776	ug/l		90
65) Chlorobenzene	11.438	112	162168	21.055	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	56357	21.133	ug/l		99
67) Ethyl Benzene	11.517	91	283781	20.736	ug/l		99
68) m/p-Xylenes	11.627	106	208804	40.350	ug/l		92
69) o-Xylene	11.950	106	104267	20.603	ug/l		94
70) Styrene	11.969	104	174601	20.434	ug/l		96
71) Bromoform	12.133	173	29045	19.069	ug/l	#	97
73) Isopropylbenzene	12.249	105	289986	22.068	ug/l		98
74) N-amyl acetate	12.066	43	66740	18.675	ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	50094	21.478	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	33844m	19.935	ug/l		
77) Bromobenzene	12.529	156	59812	20.523	ug/l		88
78) n-propylbenzene	12.590	91	340804	21.882	ug/l		98
79) 2-Chlorotoluene	12.676	91	201005	22.145	ug/l		93
80) 1,3,5-Trimethylbenzene	12.737	105	229954	21.526	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.304	75	15208	17.197	ug/l	#	85
82) 4-Chlorotoluene	12.773	91	197223	21.135	ug/l		96
83) tert-Butylbenzene	12.993	119	211207	21.840	ug/l		93
84) 1,2,4-Trimethylbenzene	13.042	105	230554	21.803	ug/l		97
85) sec-Butylbenzene	13.176	105	317013	22.565	ug/l		99
86) p-Isopropyltoluene	13.285	119	255470	22.226	ug/l		96
87) 1,3-Dichlorobenzene	13.285	146	122999	21.720	ug/l		97
88) 1,4-Dichlorobenzene	13.365	146	121895	21.689	ug/l		97
89) n-Butylbenzene	13.615	91	242336	22.053	ug/l		99
90) Hexachloroethane	13.877	117	50076	20.938	ug/l		92
91) 1,2-Dichlorobenzene	13.657	146	109156	21.600	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.267	75	7679	19.755	ug/l		74
93) 1,2,4-Trichlorobenzene	14.919	180	59215	19.266	ug/l		98
94) Hexachlorobutadiene	15.017	225	33649	20.494	ug/l		98
95) Naphthalene	15.139	128	105678	17.170	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	49449	18.809	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019778.D
Acq On : 03 Oct 2024 11:01
Operator : SY/MD
Sample : VY1003SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 04 01:22:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1003SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/04/2024
Supervised By :Semsettin Yesilyurt 10/04/2024

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

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

Sample Results: **VY019778.D**

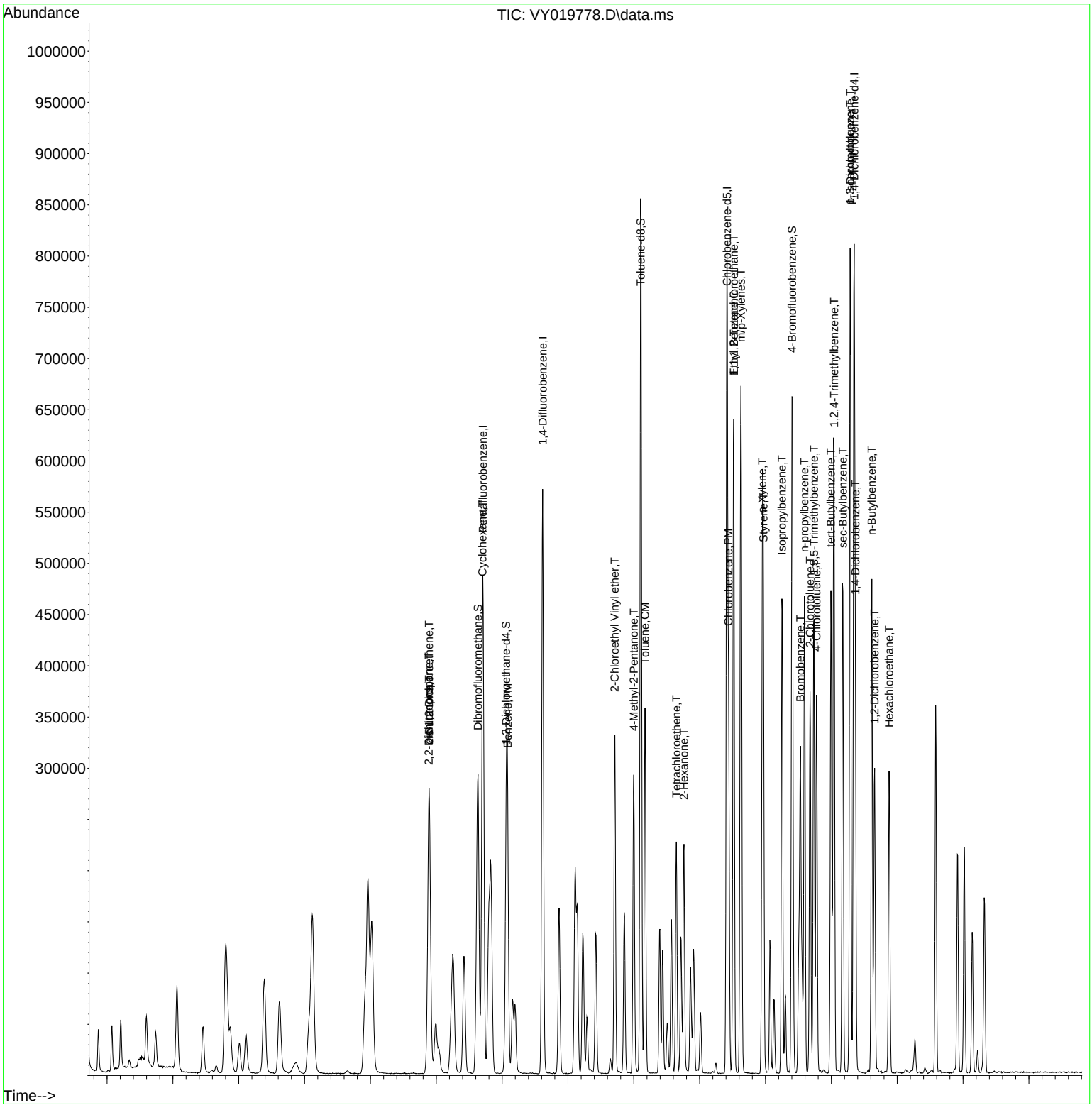
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019778.D
Acq On : 03 Oct 2024 11:01
Operator : SY/MD
Sample : VY1003SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 04 01:22:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1003SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/04/2024
Supervised By :Semsettin Yesilyurt 10/04/2024



Raw Data: **VY019770.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	VY1002SBSD02	SDG No.:	P4258
Lab Sample ID:	VY1002SBSD02	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
VY019770.D	1		10/02/24 17:19	VY100224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.0		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.6		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	22.8		1.00	5.00	ug/Kg
75-00-3	Chloroethane	23.3		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.6		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.1		0.78	5.00	ug/Kg
67-64-1	Acetone	120		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	12.8		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	22.9		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	22.0		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	24.3		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.1		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.8		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.1		0.69	5.00	ug/Kg
78-93-3	2-Butanone	120		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.4		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.9		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	23.1		2.40	5.00	ug/Kg
67-66-3	Chloroform	24.1		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	22.5		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.6		0.87	5.00	ug/Kg
71-43-2	Benzene	20.6		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	22.6		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.0		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	22.2		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	22.9		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	20.9		0.67	5.00	ug/Kg

Raw Data: **VY019770.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	VY1002SBSD02	SDG No.:	P4258
Lab Sample ID:	VY1002SBSD02	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
VY019770.D	1		10/02/24 17:19	VY100224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.5		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.5		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.9		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	22.1		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	21.1		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.6		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	22.1		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.9		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.4		1.40	10.0	ug/Kg
95-47-6	o-Xylene	21.4		0.70	5.00	ug/Kg
100-42-5	Styrene	21.6		0.60	5.00	ug/Kg
75-25-2	Bromoform	21.1		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	22.7		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	23.9		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	22.9		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	22.9		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	22.8		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	22.6		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.1		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.7		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.1		50 - 163	110%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		54 - 147	101%	SPK: 50
2037-26-5	Toluene-d8	49.1		58 - 134	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.1		29 - 146	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	278000	7.707			
540-36-3	1,4-Difluorobenzene	491000	8.616			
3114-55-4	Chlorobenzene-d5	408000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	190000	13.34			

Raw Data: **VY019770.D**

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

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	VY1002SBSD02	SDG No.:	P4258
Lab Sample ID:	VY1002SBSD02	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
VY019770.D	1		10/02/24 17:19	VY100224

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\VY100224\
Data File : VY019770.D
Acq On : 02 Oct 2024 17:19
Operator : SY/MD
Sample : VY1002SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 03 02:06:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBSD02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	278113	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	490887	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	408200	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	189650	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	141910	55.105	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.220%			
35) Dibromofluoromethane	7.634	113	140579	50.509	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.020%			
50) Toluene-d8	10.103	98	505421	49.096	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.200%			
62) 4-Bromofluorobenzene	12.402	95	182595	46.129	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 92.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	35521	20.992	ug/l	100
3) Chloromethane	2.068	50	42846	18.621	ug/l	100
4) Vinyl Chloride	2.208	62	50565	20.323	ug/l	97
5) Bromomethane	2.592	94	34920	22.849	ug/l	95
6) Chloroethane	2.739	64	37897	23.299	ug/l	98
7) Trichlorofluoromethane	3.062	101	89647	21.614	ug/l	97
8) Diethyl Ether	3.458	74	30009	21.555	ug/l	89
9) 1,1,2-Trichlorotrifluo...	3.818	101	55997	21.825	ug/l	96
10) Methyl Iodide	4.007	142	53938	16.397	ug/l	92
11) Tert butyl alcohol	4.860	59	33072	159.021	ug/l	99
12) 1,1-Dichloroethene	3.787	96	47017	19.055	ug/l	85
13) Acrolein	3.659	56	7377	62.960	ug/l	95
14) Allyl chloride	4.385	41	86685	19.590	ug/l #	91
15) Acrylonitrile	5.061	53	71696	119.433	ug/l	99
16) Acetone	3.873	43	75764	123.491	ug/l #	87
17) Carbon Disulfide	4.110	76	85541	12.831	ug/l	100
18) Methyl Acetate	4.391	43	36692	22.038	ug/l	89
19) Methyl tert-butyl Ether	5.116	73	159783	22.864	ug/l	99
20) Methylene Chloride	4.622	84	68049	24.321	ug/l	92
21) trans-1,2-Dichloroethene	5.116	96	51790	19.149	ug/l	89
22) Diisopropyl ether	6.025	45	210653	23.183	ug/l	93
23) Vinyl Acetate	5.964	43	580462	111.838	ug/l #	92
24) 1,1-Dichloroethane	5.915	63	116487	22.845	ug/l	98
25) 2-Butanone	6.896	43	108656	124.523	ug/l #	85
26) 2,2-Dichloropropane	6.890	77	105111	22.853	ug/l	94
27) cis-1,2-Dichloroethene	6.890	96	72054	21.932	ug/l	86
28) Bromochloromethane	7.244	49	49615	23.127	ug/l	81
29) Tetrahydrofuran	7.262	42	60253	113.569	ug/l #	86
30) Chloroform	7.421	83	125678	24.145	ug/l	100
31) Cyclohexane	7.701	56	83418	18.099	ug/l	91
32) 1,1,1-Trichloroethane	7.616	97	104982	22.502	ug/l	94
36) 1,1-Dichloropropene	7.835	75	75355	19.897	ug/l	96
37) Ethyl Acetate	6.988	43	42390	21.845	ug/l	99
38) Carbon Tetrachloride	7.817	117	87220	20.423	ug/l	99
39) Methylcyclohexane	9.109	83	88914	17.642	ug/l #	88
40) Benzene	8.079	78	240503	20.618	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019770.D
Acq On : 02 Oct 2024 17:19
Operator : SY/MD
Sample : VY1002SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 03 02:06:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBSD02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.220	41	26089	23.064 ug/l #	85
42) 1,2-Dichloroethane	8.158	62	70954	22.605 ug/l	95
43) Isopropyl Acetate	8.195	43	90907	22.299 ug/l #	89
44) Trichloroethene	8.866	130	59848	19.950 ug/l	89
45) 1,2-Dichloropropane	9.140	63	63445	22.248 ug/l	98
46) Dibromomethane	9.231	93	33860	21.712 ug/l	95
47) Bromodichloromethane	9.420	83	96065	22.916 ug/l	99
48) Methyl methacrylate	9.219	41	40104	20.831 ug/l	84
49) 1,4-Dioxane	9.231	88	8073	439.743 ug/l #	90
51) 4-Methyl-2-Pentanone	9.993	43	228449	111.385 ug/l	92
52) Toluene	10.170	92	156814	20.903 ug/l	97
53) t-1,3-Dichloropropene	10.390	75	82071	20.538 ug/l	95
54) cis-1,3-Dichloropropene	9.853	75	95473	20.518 ug/l #	87
55) 1,1,2-Trichloroethane	10.573	97	49259	22.873 ug/l	96
56) Ethyl methacrylate	10.438	69	67736	20.705 ug/l #	77
57) 1,3-Dichloropropane	10.713	76	82959	22.410 ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	146627	96.569 ug/l	98
59) 2-Hexanone	10.756	43	160940	107.033 ug/l	89
60) Dibromochloromethane	10.908	129	62961	22.101 ug/l	98
61) 1,2-Dibromoethane	11.012	107	42380	21.121 ug/l	100
64) Tetrachloroethene	10.646	164	52162	20.635 ug/l	96
65) Chlorobenzene	11.438	112	177491	22.105 ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.511	131	62996	22.660 ug/l	98
67) Ethyl Benzene	11.518	91	312438	21.899 ug/l	100
68) m/p-Xylenes	11.627	106	228512	42.358 ug/l	91
69) o-Xylene	11.950	106	112805	21.381 ug/l	92
70) Styrene	11.963	104	192323	21.591 ug/l	95
71) Bromoform	12.127	173	33443	21.061 ug/l #	98
73) Isopropylbenzene	12.249	105	311789	22.662 ug/l	99
74) N-amyl acetate	12.066	43	80192	21.431 ug/l #	89
75) 1,1,2,2-Tetrachloroethane	12.505	83	58451	23.935 ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	36756m	20.678 ug/l	
77) Bromobenzene	12.530	156	65368	21.422 ug/l	86
78) n-propylbenzene	12.591	91	368488	22.596 ug/l	98
79) 2-Chlorotoluene	12.676	91	213563	22.472 ug/l	96
80) 1,3,5-Trimethylbenzene	12.731	105	253254	22.642 ug/l	96
81) trans-1,4-Dichloro-2-b...	12.298	75	17543	18.946 ug/l	87
82) 4-Chlorotoluene	12.773	91	223467	22.872 ug/l	94
83) tert-Butylbenzene	12.993	119	231747	22.887 ug/l	95
84) 1,2,4-Trimethylbenzene	13.036	105	247303	22.336 ug/l	97
85) sec-Butylbenzene	13.170	105	338615	23.019 ug/l	99
86) p-Isopropyltoluene	13.286	119	272700	22.659 ug/l	96
87) 1,3-Dichlorobenzene	13.279	146	135841	22.910 ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	134550	22.865 ug/l	96
89) n-Butylbenzene	13.615	91	263068	22.864 ug/l	99
90) Hexachloroethane	13.877	117	56524	22.572 ug/l	88
91) 1,2-Dichlorobenzene	13.651	146	120895	22.849 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.267	75	9200	22.604 ug/l	78
93) 1,2,4-Trichlorobenzene	14.913	180	64597	20.073 ug/l	98
94) Hexachlorobutadiene	15.017	225	36834	21.425 ug/l	98
95) Naphthalene	15.139	128	125872	19.532 ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	54325	19.735 ug/l	97

Sample Results: **VY019770.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019770.D
Acq On : 02 Oct 2024 17:19
Operator : SY/MD
Sample : VY1002SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 03 02:06:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBSD02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024

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

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

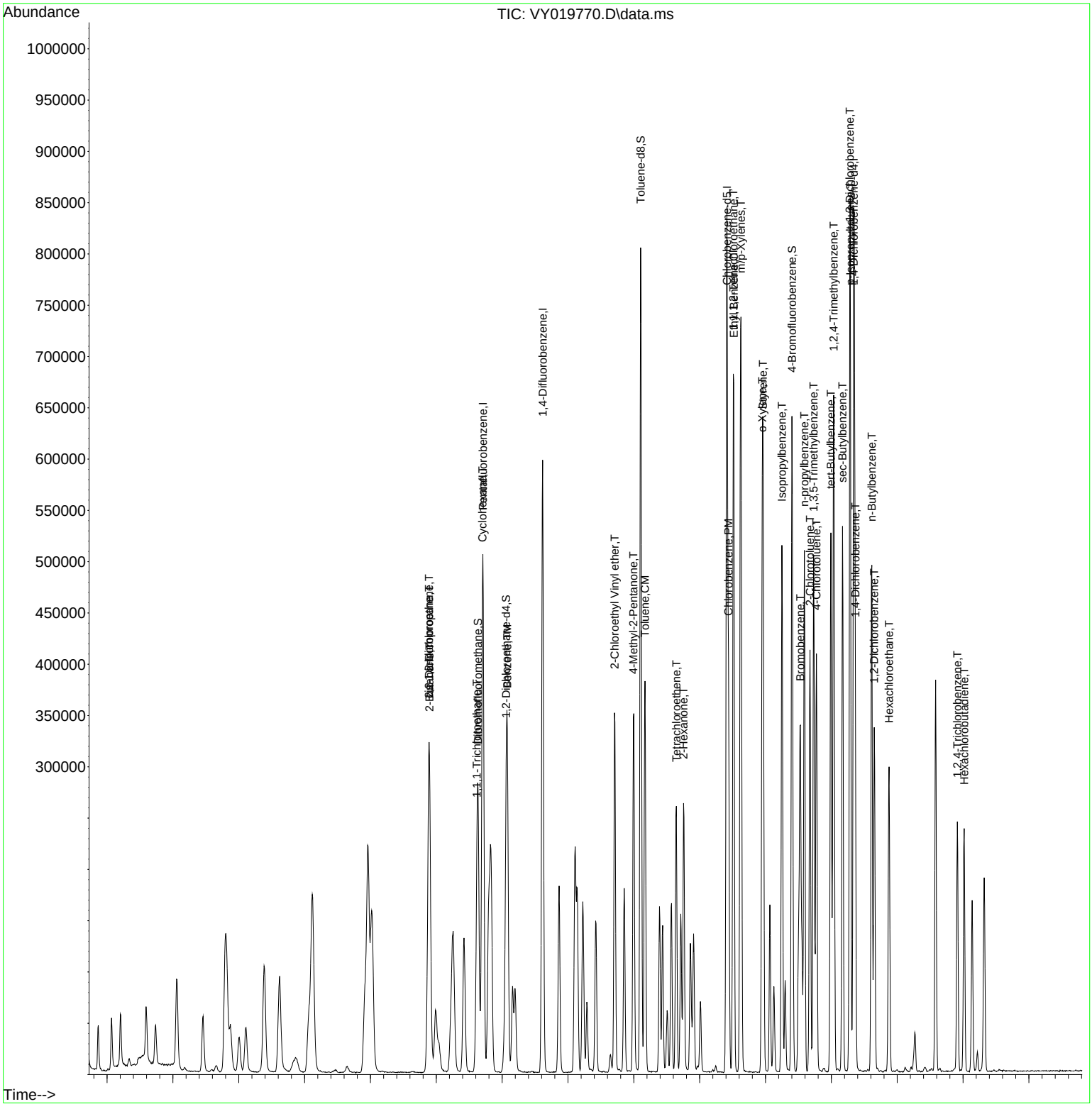
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019770.D
Acq On : 02 Oct 2024 17:19
Operator : SY/MD
Sample : VY1002SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 03 02:06:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1002SBSD02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024



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

Manual Integration Report

Sequence:	VY090924	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY019454.D	1,2,3-Trichloropropane	MMDadoda	9/10/2024 10:24:56 AM	SAM	9/10/2024 10:27:27 AM	Peak Integrated by Software
VSTDICC005	VY019454.D	Acrolein	MMDadoda	9/10/2024 10:24:56 AM	SAM	9/10/2024 10:27:27 AM	Peak Integrated by Software
VSTDICC010	VY019455.D	1,2,3-Trichloropropane	MMDadoda	9/10/2024 10:24:57 AM	SAM	9/10/2024 10:27:28 AM	Peak Integrated by Software
VSTDICC020	VY019456.D	1,2,3-Trichloropropane	MMDadoda	9/10/2024 10:24:58 AM	SAM	9/10/2024 10:27:29 AM	Peak Integrated by Software
VSTDICCC050	VY019457.D	1,2,3-Trichloropropane	MMDadoda	9/10/2024 10:25:00 AM	SAM	9/10/2024 10:27:30 AM	Peak Integrated by Software
VSTDICC100	VY019458.D	1,2,3-Trichloropropane	MMDadoda	9/10/2024 10:25:01 AM	SAM	9/10/2024 10:27:32 AM	Peak Integrated by Software
VSTDICC150	VY019459.D	1,2,3-Trichloropropane	MMDadoda	9/10/2024 10:25:04 AM	SAM	9/10/2024 10:27:33 AM	Peak Integrated by Software
VSTDICV050	VY019461.D	1,2,3-Trichloropropane	MMDadoda	9/10/2024 10:25:05 AM	SAM	9/10/2024 10:27:34 AM	Peak Integrated by Software
VSTDCCC050	VY019474.D	1,2,3-Trichloropropane	MMDadoda	9/10/2024 10:25:10 AM	SAM	9/10/2024 10:27:39 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY100224	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY019756.D	1,2,3-Trichloropropane	SAM	10/3/2024 4:56:03 PM	MMDadoda	10/3/2024 4:58:18 PM	Peak Integrated by Software
VY1002SBS02	VY019769.D	1,2,3-Trichloropropane	SAM	10/3/2024 4:56:06 PM	MMDadoda	10/3/2024 4:58:23 PM	Peak Integrated by Software
VY1002SBSD02	VY019770.D	1,2,3-Trichloropropane	SAM	10/3/2024 4:56:07 PM	MMDadoda	10/3/2024 4:58:25 PM	Peak Integrated by Software
VSTDCCC050	VY019774.D	1,2,3-Trichloropropane	SAM	10/3/2024 4:56:09 PM	MMDadoda	10/3/2024 4:58:26 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vy100324	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY019776.D	1,2,3-Trichloropropane	MMDadoda	10/4/2024 10:17:13 AM	SAM	10/4/2024 10:17:43 AM	Peak Integrated by Software
VY1003SBS01	VY019778.D	1,2,3-Trichloropropane	MMDadoda	10/4/2024 10:16:47 AM	SAM	10/4/2024 10:17:43 AM	Peak Integrated by Software
VSTDCCC050	VY019790.D	1,2,3-Trichloropropane	MMDadoda	10/4/2024 10:16:51 AM	SAM	10/4/2024 10:17:46 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 # VY090924

Review By	Mahesh Dadoda	Review On	9/10/2024 10:25:17 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	9/10/2024 10:27:41 AM				
SubDirectory	VY090924	HP Acquire Method	MSVOA_Y	HP Processing Method	82y090924s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP130172
Initial Calibration Stds	VP130173,VP130174,VP130175,VP130176,VP130177,VP130178
CCC	VP130180,VP130181
Internal Standard/PEM	VP128297
ICV/I.BLK	VP130179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY019453.D	09 Sep 2024 09:20	SY/MD	Ok
2	VSTDICC005	VY019454.D	09 Sep 2024 09:52	SY/MD	Ok,M
3	VSTDICC010	VY019455.D	09 Sep 2024 10:15	SY/MD	Ok,M
4	VSTDICC020	VY019456.D	09 Sep 2024 10:44	SY/MD	Ok,M
5	VSTDICCC050	VY019457.D	09 Sep 2024 11:07	SY/MD	Ok,M
6	VSTDICC100	VY019458.D	09 Sep 2024 11:29	SY/MD	Ok,M
7	VSTDICC150	VY019459.D	09 Sep 2024 11:53	SY/MD	Ok,M
8	VIBLK	VY019460.D	09 Sep 2024 12:16	SY/MD	Ok
9	VSTDICV050	VY019461.D	09 Sep 2024 13:05	SY/MD	Ok,M
10	VY0909SBL01	VY019462.D	09 Sep 2024 13:34	SY/MD	Ok
11	VY0909SBS01	VY019463.D	09 Sep 2024 13:57	SY/MD	Ok,M
12	VY0909SBSD01	VY019464.D	09 Sep 2024 14:26	SY/MD	Ok,M
13	P3891-01	VY019465.D	09 Sep 2024 15:10	SY/MD	Ok
14	P3852-02	VY019466.D	09 Sep 2024 15:33	SY/MD	Ok
15	P3852-04	VY019467.D	09 Sep 2024 15:57	SY/MD	ReRun
16	P3857-03RE	VY019468.D	09 Sep 2024 16:20	SY/MD	Confirms
17	P3892-01	VY019469.D	09 Sep 2024 16:43	SY/MD	ReRun
18	P3905-05	VY019470.D	09 Sep 2024 17:07	SY/MD	Ok
19	P3905-03	VY019471.D	09 Sep 2024 17:30	SY/MD	Ok
20	P3905-01	VY019472.D	09 Sep 2024 17:54	SY/MD	Ok
21	P3906-15	VY019473.D	09 Sep 2024 18:17	SY/MD	ReRun

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 # VY090924

Review By	Mahesh Dadoda	Review On	9/10/2024 10:25:17 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	9/10/2024 10:27:41 AM				
SubDirectory	VY090924	HP Acquire Method	MSVOA_Y	HP Processing Method	82y090924s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP130172
Initial Calibration Stds	VP130173,VP130174,VP130175,VP130176,VP130177,VP130178
CCC	VP130180,VP130181
Internal Standard/PEM	VP128297
ICV/I.BLK	VP130179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VSTDCCC050	VY019474.D	09 Sep 2024 18:40	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 # VY100224

Review By	Semsettin Yesilyurt	Review On	10/3/2024 4:56:16 PM				
Supervise By	Mahesh Dadoda	Supervise On	10/3/2024 4:58:28 PM				
SubDirectory	VY100224	HP Acquire Method	MSVOA_Y	HP Processing Method	82y090924s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP130628
Initial Calibration Stds	
CCC	VP130629,VP130630
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY019755.D	02 Oct 2024 08:37	SY/MD	Ok
2	VSTDCCC050	VY019756.D	02 Oct 2024 09:39	SY/MD	Ok,M
3	VY1002SBL01	VY019757.D	02 Oct 2024 10:13	SY/MD	Ok
4	VY1002SBS01	VY019758.D	02 Oct 2024 12:36	SY/MD	Not Ok
5	P4225-01	VY019759.D	02 Oct 2024 13:03	SY/MD	Not Ok
6	P4236-06RE	VY019760.D	02 Oct 2024 13:26	SY/MD	Confirms
7	P4236-10	VY019761.D	02 Oct 2024 13:49	SY/MD	Not Ok
8	P4236-14RE	VY019762.D	02 Oct 2024 14:13	SY/MD	Confirms
9	P4236-02	VY019763.D	02 Oct 2024 14:36	SY/MD	Not Ok
10	P4232-03	VY019764.D	02 Oct 2024 15:00	SY/MD	Ok
11	P4258-03	VY019765.D	02 Oct 2024 15:23	SY/MD	ReRun
12	P4242-03	VY019766.D	02 Oct 2024 15:47	SY/MD	ReRun
13	P4257-02	VY019767.D	02 Oct 2024 16:10	SY/MD	Ok
14	P4255-01	VY019768.D	02 Oct 2024 16:33	SY/MD	Ok
15	VY1002SBS02	VY019769.D	02 Oct 2024 16:56	SY/MD	Ok,M
16	VY1002SBSD02	VY019770.D	02 Oct 2024 17:19	SY/MD	Ok,M
17	P4254-02	VY019771.D	02 Oct 2024 17:42	SY/MD	Ok
18	P4254-01	VY019772.D	02 Oct 2024 18:06	SY/MD	Not Ok
19	VIBLK	VY019773.D	02 Oct 2024 18:29	SY/MD	Ok
20	VSTDCCC050	VY019774.D	02 Oct 2024 18:52	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY100324

Review By	Semsettin Yesilyurt	Review On	10/4/2024 10:17:50 AM	
Supervise By	Mahesh Dadoda	Supervise On	10/4/2024 10:18:45 AM	
SubDirectory	VY100324	HP Acquire Method		HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk	VP130673
Initial Calibration Stds	
CCC	VP130675,VP130676
Internal Standard/PEM	VP130432
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY019775.D	03 Oct 2024 08:34	SY/MD	Ok
2	VSTDCCC050	VY019776.D	03 Oct 2024 09:44	SY/MD	Ok,M
3	VY1003SBL01	VY019777.D	03 Oct 2024 10:17	SY/MD	Ok
4	VY1003SBS01	VY019778.D	03 Oct 2024 11:01	SY/MD	Ok,M
5	VY1003SBSD01	VY019779.D	03 Oct 2024 11:29	SY/MD	Not Ok
6	P4258-03RE	VY019780.D	03 Oct 2024 12:10	SY/MD	Confirms
7	P4242-03	VY019781.D	03 Oct 2024 12:34	SY/MD	Ok
8	P4277-01	VY019782.D	03 Oct 2024 12:57	SY/MD	Not Ok
9	P4277-02	VY019783.D	03 Oct 2024 13:21	SY/MD	Not Ok
10	P4276-01	VY019784.D	03 Oct 2024 13:44	SY/MD	Ok
11	P4273-02	VY019785.D	03 Oct 2024 14:07	SY/MD	ReRun
12	P4275-01	VY019786.D	03 Oct 2024 14:31	SY/MD	Dilution
13	P4254-01	VY019787.D	03 Oct 2024 14:54	SY/MD	Ok
14	P4254-02RE	VY019788.D	03 Oct 2024 15:18	SY/MD	Not Ok
15	P4270-03	VY019789.D	03 Oct 2024 15:41	SY/MD	Not Ok
16	VSTDCCC050	VY019790.D	03 Oct 2024 16:41	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 # VY090924

Review By	Mahesh Dadoda	Review On	9/10/2024 10:25:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/10/2024 10:27:41 AM		
SubDirectory	VY090924	HP Acquire Method	MSVOA_Y	HP Processing Method	82y090924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP130172
Initial Calibration Stds	VP130173,VP130174,VP130175,VP130176,VP130177,VP130178
CCC	VP130180,VP130181
Internal Standard/PEM	VP128297
ICV/I.BLK	VP130179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY019453.D	09 Sep 2024 09:20		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY019454.D	09 Sep 2024 09:52	Good for DOD	SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY019455.D	09 Sep 2024 10:15	LR-02,13	SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY019456.D	09 Sep 2024 10:44	%D failed for Comp. #13 in 20 PPB	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY019457.D	09 Sep 2024 11:07		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY019458.D	09 Sep 2024 11:29		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY019459.D	09 Sep 2024 11:53		SY/MD	Ok,M
8	VIBLK	VIBLK	VY019460.D	09 Sep 2024 12:16		SY/MD	Ok
9	VSTDICV050	ICVVY090924	VY019461.D	09 Sep 2024 13:05		SY/MD	Ok,M
10	VY0909SBL01	VY0909SBL01	VY019462.D	09 Sep 2024 13:34		SY/MD	Ok
11	VY0909SBS01	VY0909SBS01	VY019463.D	09 Sep 2024 13:57		SY/MD	Ok,M
12	VY0909SBSD01	VY0909SBSD01	VY019464.D	09 Sep 2024 14:26		SY/MD	Ok,M
13	P3891-01	AUD-SBG	VY019465.D	09 Sep 2024 15:10	Vial A	SY/MD	Ok
14	P3852-02	VNJ223	VY019466.D	09 Sep 2024 15:33	Vial A	SY/MD	Ok
15	P3852-04	ETGI356	VY019467.D	09 Sep 2024 15:57	Vial A Internal Standard Fail	SY/MD	ReRun
16	P3857-03RE	WC-C1-GRABRE	VY019468.D	09 Sep 2024 16:20	Internal Standard Fail Vial B	SY/MD	Confirms
17	P3892-01	ARS20-005	VY019469.D	09 Sep 2024 16:43	Internal Standard Fail Vial A	SY/MD	ReRun

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY090924

Review By	Mahesh Dadoda	Review On	9/10/2024 10:25:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/10/2024 10:27:41 AM		
SubDirectory	VY090924	HP Acquire Method	MSVOA_Y	HP Processing Method	82y090924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP130172
Initial Calibration Stds	VP130173,VP130174,VP130175,VP130176,VP130177,VP130178
CCC	VP130180,VP130181
Internal Standard/PEM	VP128297
ICV/I.BLK	VP130179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P3905-05	COMP-1	VY019470.D	09 Sep 2024 17:07	Vial A	SY/MD	Ok
19	P3905-03	TP-3B	VY019471.D	09 Sep 2024 17:30	Vial A	SY/MD	Ok
20	P3905-01	TP-3A	VY019472.D	09 Sep 2024 17:54	Vial A	SY/MD	Ok
21	P3906-15	SU-701-VOC-03	VY019473.D	09 Sep 2024 18:17	Internal Standard Fail Vial A	SY/MD	ReRun
22	VSTDCCC050	VSTDCCC050EC	VY019474.D	09 Sep 2024 18:40		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY100224

Review By	Semsettin Yesilyurt	Review On	10/3/2024 4:56:16 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/3/2024 4:58:28 PM		
SubDirectory	VY100224	HP Acquire Method	MSVOA_Y	HP Processing Method	82y090924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP130628
Initial Calibration Stds	
CCC	VP130629,VP130630
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY019755.D	02 Oct 2024 08:37		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY019756.D	02 Oct 2024 09:39		SY/MD	Ok,M
3	VY1002SBL01	VY1002SBL01	VY019757.D	02 Oct 2024 10:13		SY/MD	Ok
4	VY1002SBS01	VY1002SBS01	VY019758.D	02 Oct 2024 12:36		SY/MD	Not Ok
5	P4225-01	TR-04-092724	VY019759.D	02 Oct 2024 13:03	NOT PURGE vial-B	SY/MD	Not Ok
6	P4236-06RE	TP3-VOCRE	VY019760.D	02 Oct 2024 13:26	Internal Standard Fail vial-B	SY/MD	Confirms
7	P4236-10	TP1-VOC	VY019761.D	02 Oct 2024 13:49	NOT PURGE vial-B	SY/MD	Not Ok
8	P4236-14RE	TP2-VOCRE	VY019762.D	02 Oct 2024 14:13	Internal Standard Fail vial-B	SY/MD	Confirms
9	P4236-02	TP4-VOC	VY019763.D	02 Oct 2024 14:36	NOT PURGE vial-B	SY/MD	Not Ok
10	P4232-03	TP-R-VOC	VY019764.D	02 Oct 2024 15:00	vial-A	SY/MD	Ok
11	P4258-03	Chamberlain Ave	VY019765.D	02 Oct 2024 15:23	Internal Standard Fail vial-A	SY/MD	ReRun
12	P4242-03	TP-Q-VOC	VY019766.D	02 Oct 2024 15:47	Internal Standard Fail vial-A	SY/MD	ReRun
13	P4257-02	VNJ-240	VY019767.D	02 Oct 2024 16:10	vial-A	SY/MD	Ok
14	P4255-01	OR-03-100124	VY019768.D	02 Oct 2024 16:33	vial-A	SY/MD	Ok
15	VY1002SBS02	VY1002SBS02	VY019769.D	02 Oct 2024 16:56		SY/MD	Ok,M
16	VY1002SBSD02	VY1002SBSD02	VY019770.D	02 Oct 2024 17:19		SY/MD	Ok,M
17	P4254-02	MH-147-SLUDGE-VOC	VY019771.D	02 Oct 2024 17:42	Internal Standard Fail vial-A	SY/MD	Ok
18	P4254-01	MH-147-SLUDGE	VY019772.D	02 Oct 2024 18:06	Not purge vial-A	SY/MD	Not Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY100224

Review By	Semsettin Yesilyurt	Review On	10/3/2024 4:56:16 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/3/2024 4:58:28 PM		
SubDirectory	VY100224	HP Acquire Method	MSVOA_Y	HP Processing Method	82y090924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP130628
Initial Calibration Stds	
CCC	VP130629,VP130630
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VIBLK	VIBLK	VY019773.D	02 Oct 2024 18:29		SY/MD	Ok
20	VSTDCCC050	VSTDCCC050EC	VY019774.D	02 Oct 2024 18:52		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY100324

Review By	Semsettin Yesilyurt	Review On	10/4/2024 10:17:50 AM
Supervise By	Mahesh Dadoda	Supervise On	10/4/2024 10:18:45 AM
SubDirectory	VY100324	HP Acquire Method	HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk	VP130673
Initial Calibration Stds	
CCC	VP130675,VP130676
Internal Standard/PEM	VP130432
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY019775.D	03 Oct 2024 08:34		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY019776.D	03 Oct 2024 09:44		SY/MD	Ok,M
3	VY1003SBL01	VY1003SBL01	VY019777.D	03 Oct 2024 10:17		SY/MD	Ok
4	VY1003SBS01	VY1003SBS01	VY019778.D	03 Oct 2024 11:01		SY/MD	Ok,M
5	VY1003SBSD01	VY1003SBSD01	VY019779.D	03 Oct 2024 11:29	Recovery fail	SY/MD	Not Ok
6	P4258-03RE	Chamberlain AveRE	VY019780.D	03 Oct 2024 12:10	Internal Standard Fail vial-B	SY/MD	Confirms
7	P4242-03	TP-Q-VOC	VY019781.D	03 Oct 2024 12:34	vial-B	SY/MD	Ok
8	P4277-01	BU-03-10022024	VY019782.D	03 Oct 2024 12:57	NOT PURGE vial-a	SY/MD	Not Ok
9	P4277-02	BU-03-10022024	VY019783.D	03 Oct 2024 13:21	Not purge vial-A	SY/MD	Not Ok
10	P4276-01	VNJ-208	VY019784.D	03 Oct 2024 13:44	vial-A	SY/MD	Ok
11	P4273-02	AU-05-100224	VY019785.D	03 Oct 2024 14:07	Internal Standard Fail vial-A	SY/MD	ReRun
12	P4275-01	TRE-1300	VY019786.D	03 Oct 2024 14:31	Need MeOH vial-a	SY/MD	Dilution
13	P4254-01	MH-147-SLUDGE	VY019787.D	03 Oct 2024 14:54	Internal standard fail	SY/MD	Ok
14	P4254-02RE	MH-147-SLUDGE-VOC	VY019788.D	03 Oct 2024 15:18	Internal standard fail;Confirm Concentration vial-B	SY/MD	Not Ok
15	P4270-03	IB-2-VOC	VY019789.D	03 Oct 2024 15:41	Confirm Concentration vial-a	SY/MD	Not Ok
16	VSTDCCC050	VSTDCCC050EC	VY019790.D	03 Oct 2024 16:41		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/2/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:35
In Date: 10/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 10/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB132680

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
P4242-01	TP-Q	1	1.15	8.81	9.96	9.47	94.4	
P4242-02	TP-Q-EPH	2	1.19	8.66	9.85	9.09	91.2	
P4242-03	TP-Q-VOC	3	1.17	8.58	9.75	8.97	90.9	
P4249-01	RV-25(4-4.5)	4	1.18	8.54	9.72	9.4	96.3	
P4249-02	RV-26(2-2.5)	5	1.14	8.84	9.98	9.08	89.8	
P4249-03	RV-27(2-2.5)	6	1.15	8.35	9.5	8.72	90.7	
P4249-04	RV-28(2-2.5)	7	1.18	8.64	9.82	8.58	85.6	
P4254-01	MH-147-SLUDGE	8	1.13	8.60	9.73	4.39	37.9	sludge sample
P4254-02	MH-147-SLUDGE-VOC	9	1.15	8.81	9.96	4.56	38.7	sludge sample
P4254-03	MH-147-SLUDGE-E2	10	1.14	8.82	9.96	4.13	33.9	sludge sample
P4255-01	OR-03-100124	11	1.14	8.43	9.57	8.57	88.1	
P4255-02	OR-03-100124-E2	12	1.15	8.71	9.86	8.97	89.8	
P4256-01	585	13	1.19	8.49	9.68	7.19	70.7	
P4256-02	31480	14	1.00	1.00	2.00	2.00	100.0	debris
P4257-01	VNJ-240	15	1.12	8.50	9.62	9.03	93.1	
P4257-02	VNJ-240	16	1.14	8.80	9.94	9.18	91.4	
P4258-01	Chamberlain Ave	17	1.17	8.57	9.74	8.54	86.0	
P4258-03	Chamberlain Ave	18	1.17	8.57	9.74	8.54	86.0	

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

WORKLIST(Hardcopy Internal Chain)

VJ 132680

WorkList Name : %100124 **WorkList ID :** 183974 **Department :** Wet-Chemistry **Date :** 10-01-2024 08:04:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4242-01	TP-Q	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4242-02	TP-Q-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4242-03	TP-Q-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4249-01	RV-25(4-4.5)	Solid	Percent Solids	Cool 4 deg C	MATR02	J51	10/01/2024	Chemtech -SO
P4249-02	RV-26(2-2.5)	Solid	Percent Solids	Cool 4 deg C	MATR02	J51	10/01/2024	Chemtech -SO
P4249-03	RV-27(2-2.5)	Solid	Percent Solids	Cool 4 deg C	MATR02	J51	10/01/2024	Chemtech -SO
P4249-04	RV-28(2-2.5)	Solid	Percent Solids	Cool 4 deg C	MATR02	J51	10/01/2024	Chemtech -SO
P4254-01	MH-147-SLUDGE	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4254-02	MH-147-SLUDGE-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4254-03	MH-147-SLUDGE-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4255-01	OR-03-100124	Solid	Percent Solids	Cool 4 deg C	PSEG05	J51	10/01/2024	Chemtech -SO
P4255-02	OR-03-100124-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	J51	10/01/2024	Chemtech -SO
P4256-01	585	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4256-02	31480	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4257-01	VNJ-240	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4257-02	VNJ-240	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4258-01	Chamberlain Ave	Solid	Percent Solids	Cool 4 deg C	ROMA02	H11	10/01/2024	Chemtech -SO
P4258-03	Chamberlain Ave	Solid	Percent Solids	Cool 4 deg C	ROMA02	H51	10/01/2024	Chemtech -SO

Date/Time 10/01/24 15:25

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 10/01/24 17:00

Raw Sample Received by:

Raw Sample Relinquished by:

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO. P4258 / P4261
QUOTE NO.
COC Number 2041986

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Roman E&G
ADDRESS: 14 Ogden St
CITY Newark STATE: NJ ZIP: 07104
ATTENTION: Sonny Puzzo
PHONE: 973-482-1123 FAX: 973-482-7154

CLIENT PROJECT INFORMATION

PROJECT NAME: Perth Amboy Watermain
PROJECT NO.: 24-651 LOCATION: Perth Amboy
PROJECT MANAGER: Mark Matthiess
e-mail: engineer@romaneg.com
PHONE: 973-482-1123 FAX: 973-482-7154

CLIENT BILLING INFORMATION

BILL TO: Roman E&G PO#: 24-651
ADDRESS: 14 Ogden St
CITY Newark STATE: NJ ZIP 07104
ATTENTION: Frank PHONE: 973-482-1123

DATA TURNAROUND INFORMATION

FAX (RUSH) 6 10/7 DAYS*
HARDCOPY (DATA PACKAGE): 6 10/7 DAYS*
EDD: 6 10/7 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT NJ-DEP-SRS

ANALYSIS

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.	Chamberlain Ave	S		X	10/1	11:45	1										
2.		S		X	10/1	11:45	1										
3.		S		X	10/1	11:45	1										
4.		S		X	10/1	11:45	1										
5.		S		X	10/1	11:45	1										
6.		S		X	10/1	11:45	1										
7.		S		X	10/1	11:45	1										
8.		S		X	10/1	11:45	1										
9.																	
10.																	

Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Sonny Puzzo	10/1 12:54	1.
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 22.1 °C
Comments: If Cm # (

Page ____ of ____

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

Test Group	Analyses	Matrix	Method
METALS-TAL	Mercury	Water	7470A
	TAL ICP Metals	Water	6010D
RCRA CHARACTERIS	Flash Point	Water	1010B
	pH	Water	9040C
	Reactive Cyanide	Water	9012B
	Reactive Sulfide	Water	9034
TCLP METALS	TCLP Extraction	Water	1311
	TCLP ICP Metals	Water	6010D
	TCLP Mercury	Water	7470A
GROWS Concrete	Ammonia	Solid	SM4500-NH3
	Chemical Oxygen Demar	Solid	SM5220 D
	Oil & Grease	Solid	1664A
	Paint Filter Test	Solid	9095B
	PCBs	Solid	8082A
	Percent Solids	Solid	Chemtech -SOP
	pH	Solid	9045D
	Total Solids	Solid	SM2540 B
	Total Volatile Solids	Solid	160.4
GROWS Concrete AS	ASTM Leachate/ Ammon	Solid	SM4500-NH3
	ASTM Leachate/COD	Solid	SM5220 D
	ASTM Leachate Extracti	Solid	ASTM
	ASTM Leachate/Oil & Gr	Solid	1664A
	ASTM Leachate/Total Sol	Solid	SM2540 B
GROWS Concrete-Wa	Corrosivity	Solid	9045D
	Ignitability	Solid	1030
	Reactive Cyanide	Solid	9012B
	Reactive Sulfide	Solid	9034
	TCLP Semivolatiles	Solid	8270E
	TCLP Extraction	Solid	1311
	TCLP Herbicides	Solid	8151A
	TCLP Mercury	Solid	7470A
	TCLP Metals + Cu+Ni+Zr	Solid	6010D
	TCLP Pesticides	Solid	8081B
	TCLP Volatiles	Solid	8260C
	TCLP ZHE Extraction	Solid	1311 ZHE
GROWS Soil	PCBs	Solid	8082A
	Percent Solids	Solid	Chemtech -SOP
	pH	Solid	9045D
	TCL Volatiles+10	Solid	8260D
GROWS Soil-Waste C	Corrosivity	Solid	9045D
	Ignitability	Solid	1030
	Reactive Cyanide	Solid	9012B
	Reactive Sulfide	Solid	9034
	TCLP Semivolatiles	Solid	8270E
	TCLP Extraction	Solid	1311
	TCLP Herbicides	Solid	8151A
	TCLP Mercury	Solid	7470A
	TCLP Metals + Cu+Ni+Zr	Solid	6010D
	TCLP Pesticides	Solid	8081B
	TCLP Volatiles	Solid	8260D
	TCLP ZHE Extraction	Solid	1311 ZHE

Seperate

Seperate

Grows Concrete

Grows Concrete ASTM

Grows Soil

Grows Soil - Waste Class

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 (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4258 ROMA02
Client Name : Roman E&G Corp
Client Contact : Mark Mattheiss
Invoice Name : Roman E&G Corp
Invoice Contact : Mark Mattheiss

Order Date : 10/1/2024 1:21:00 PM
Project Name : Perth Amboy
Receive DateTime : 10/1/2024 12:54:00 PM
Purchase Order :

Project Mgr : Kiran
Report Type : ~~Level 2~~ NJ Reduced
EDD Type : ~~Excel NJ~~ HAZ/Excel
Hard Copy Date :
Date Signoff : 10/1/2024 3:13:24 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4258-03	Chamberlain Ave	Solid	10/01/2024	11:45	VOC-TCLVOA-10	GROWS Soil	8260D		4 Bus. Days
P4258-04	Chamberlain Ave	Solid	10/01/2024	11:45	TCLP VOA	ROWS Soil-Waste Cla	8260C		4 Bus. Days

Relinguished By :
Date / Time : 10-2-24 8:03

Received By :
Date / Time : 10/02/24 8:03
Storage Area : VOA Refridgerator Room