

Cover Page

Order ID : P4860

Project ID : Ocean County Landfill 2024

Client : Tetra Tech

Lab Sample Number

P4860-01
P4860-02
P4860-03
P4860-04
P4860-05
P4860-06
P4860-07
P4860-08
P4860-09
P4860-10

Client Sample Number

DUP-01
PH2-BOT-001
PH2-BOT-002
PH2-BOT-003
PH2-BOT-004
PH2-BOT-009
PH2-BOT-008
PH2-BOT-007
PH2-BOT-006
PH2-BOT-005

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

Signature : _____

Date: 11/23/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4860

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 Custody

✓

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: PATEL VAISHALI

Date: 11/23/2024

LAB CHRONICLE

OrderID:	P4860	OrderDate:	11/14/2024 1:36:41 PM
Client:	Tetra Tech	Project:	Ocean County Landfill 2024
Contact:	John Giuliano	Location:	L41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4860-01	DUP-01	SOIL	VOC-TCLVOA-10	8260D	11/14/24		11/18/24	11/14/24
P4860-02	PH2-BOT-001	SOIL	VOC-TCLVOA-10	8260D	11/14/24		11/18/24	11/14/24
P4860-03	PH2-BOT-002	SOIL	VOC-TCLVOA-10	8260D	11/14/24		11/20/24	11/14/24
P4860-04	PH2-BPT-003	SOIL	VOC-TCLVOA-10	8260D	11/14/24		11/18/24	11/14/24
P4860-05	PH2-BPT-004	SOIL	VOC-TCLVOA-10	8260D	11/14/24		11/18/24	11/14/24
P4860-06	PH2-BOT-009	SOIL	VOC-TCLVOA-10	8260D	11/14/24		11/20/24	11/14/24
P4860-07	PH2-BOT-008	SOIL	VOC-TCLVOA-10	8260D	11/14/24		11/18/24	11/14/24
P4860-08	PH2-BOT-007	SOIL	VOC-TCLVOA-10	8260D	11/14/24		11/18/24	11/14/24
P4860-09	PH2-BOT-006	SOIL	VOC-TCLVOA-10	8260D	11/14/24		11/21/24	11/14/24
P4860-10	PH2-BOT-005	SOIL	VOC-TCLVOA-10	8260D	11/14/24		11/21/24	11/14/24



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

Hit Summary Sheet
SW-846

SDG No.: P4860
Client: Tetra Tech

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	PH2-BOT-001							
P4860-02	PH2-BOT-001	SOIL	Methyl Acetate	4.00		1.40	4.00	ug/Kg
			Total Voc :		4.00			
			Total Concentration:		4.00			



QC SUMMARY

Surrogate Summary

SDG No.: **P4860**

Client: **Tetra Tech**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4860-01	DUP-01	1,2-Dichloroethane-d4	50	42.1	84	70 (50)	130 (163)
		Dibromofluoromethane	50	44.0	88	70 (54)	130 (147)
		Toluene-d8	50	40.2	80	70 (58)	130 (134)
		4-Bromofluorobenzene	50	37.3	75	70 (29)	130 (146)
P4860-02	PH2-BOT-001	1,2-Dichloroethane-d4	50	43.2	86	70 (50)	130 (163)
		Dibromofluoromethane	50	42.1	84	70 (54)	130 (147)
		Toluene-d8	50	39.5	79	70 (58)	130 (134)
		4-Bromofluorobenzene	50	35.7	71	70 (29)	130 (146)
P4860-03	PH2-BOT-002	1,2-Dichloroethane-d4	50	58.6	117	70 (50)	130 (163)
		Dibromofluoromethane	50	50.1	100	70 (54)	130 (147)
		Toluene-d8	50	49.0	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	51.8	104	70 (29)	130 (146)
P4860-04	PH2-BPT-003	1,2-Dichloroethane-d4	50	39.6	79	70 (50)	130 (163)
		Dibromofluoromethane	50	38.4	77	70 (54)	130 (147)
		Toluene-d8	50	34.1	68 *	70 (58)	130 (134)
		4-Bromofluorobenzene	50	30.7	61 *	70 (29)	130 (146)
P4860-05	PH2-BPT-004	1,2-Dichloroethane-d4	50	40.7	81	70 (50)	130 (163)
		Dibromofluoromethane	50	37.8	76	70 (54)	130 (147)
		Toluene-d8	50	31.8	64 *	70 (58)	130 (134)
		4-Bromofluorobenzene	50	30.6	61 *	70 (29)	130 (146)
P4860-06	PH2-BOT-009	1,2-Dichloroethane-d4	50	51.5	103	70 (50)	130 (163)
		Dibromofluoromethane	50	48.1	96	70 (54)	130 (147)
		Toluene-d8	50	48.1	96	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.0	100	70 (29)	130 (146)
P4860-07	PH2-BOT-008	1,2-Dichloroethane-d4	50	44.5	89	70 (50)	130 (163)
		Dibromofluoromethane	50	46.0	92	70 (54)	130 (147)
		Toluene-d8	50	41.9	84	70 (58)	130 (134)
		4-Bromofluorobenzene	50	36.3	73	70 (29)	130 (146)
P4860-08	PH2-BOT-007	1,2-Dichloroethane-d4	50	43.3	87	70 (50)	130 (163)
		Dibromofluoromethane	50	49.2	98	70 (54)	130 (147)
		Toluene-d8	50	45.2	90	70 (58)	130 (134)
		4-Bromofluorobenzene	50	42.1	84	70 (29)	130 (146)
P4860-09	PH2-BOT-006	1,2-Dichloroethane-d4	50	57.4	115	70 (50)	130 (163)
		Dibromofluoromethane	50	50.5	101	70 (54)	130 (147)
		Toluene-d8	50	48.3	97	70 (58)	130 (134)
		4-Bromofluorobenzene	50	52.6	105	70 (29)	130 (146)
P4860-10	PH2-BOT-005	1,2-Dichloroethane-d4	50	52.6	105	70 (50)	130 (163)
		Dibromofluoromethane	50	48.7	97	70 (54)	130 (147)
		Toluene-d8	50	47.9	96	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.4	101	70 (29)	130 (146)
VD1118SBL01	VD1118SBL01	1,2-Dichloroethane-d4	50	49.5	99	70 (50)	130 (163)
		Dibromofluoromethane	50	48.9	98	70 (54)	130 (147)
		Toluene-d8	50	44.4	89	70 (58)	130 (134)
		4-Bromofluorobenzene	50	41.2	82	70 (29)	130 (146)
VD1118SBS01	VD1118SBS01	1,2-Dichloroethane-d4	50	49.4	99	70 (50)	130 (163)
		Dibromofluoromethane	50	49.8	100	70 (54)	130 (147)
		Toluene-d8	50	51.0	102	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.4	101	70 (29)	130 (146)
VD1118SBSD01	VD1118SBSD01	1,2-Dichloroethane-d4	50	48.0	96	70 (50)	130 (163)
		Dibromofluoromethane	50	50.2	100	70 (54)	130 (147)

() = LABORATORY INHOUSE LIMIT

Surrogate Summary

SDG No.: **P4860**

Client: **Tetra Tech**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
VD1118SBSD01	VD1118SBSD01	Toluene-d8	50	50.0	100	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.4	101	70 (29)	130 (146)
VY1120SBL01	VY1120SBL01	1,2-Dichloroethane-d4	50	53.2	106	70 (50)	130 (163)
		Dibromofluoromethane	50	48.3	97	70 (54)	130 (147)
		Toluene-d8	50	48.1	96	70 (58)	130 (134)
		4-Bromofluorobenzene	50	48.3	97	70 (29)	130 (146)
VY1120SBS01	VY1120SBS01	1,2-Dichloroethane-d4	50	43.3	87	70 (50)	130 (163)
		Dibromofluoromethane	50	41.3	83	70 (54)	130 (147)
		Toluene-d8	50	42.7	85	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.3	88	70 (29)	130 (146)
VY1121SBL01	VY1121SBL01	1,2-Dichloroethane-d4	50	51.9	104	70 (50)	130 (163)
		Dibromofluoromethane	50	48.5	97	70 (54)	130 (147)
		Toluene-d8	50	48.2	96	70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.3	95	70 (29)	130 (146)
VY1121SBS01	VY1121SBS01	1,2-Dichloroethane-d4	50	46.0	92	70 (50)	130 (163)
		Dibromofluoromethane	50	43.7	87	70 (54)	130 (147)
		Toluene-d8	50	43.4	87	70 (58)	130 (134)
		4-Bromofluorobenzene	50	45.0	90	70 (29)	130 (146)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **P4860**

Client: **Tetra Tech**

Analytical Method: **SW8260D**

Datafile : VD080060.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VD1118SBS01	Dichlorodifluoromethane	20	18.2	ug/Kg	91			40 (64)	160 (136)	
	Chloromethane	20	19.8	ug/Kg	99			40 (70)	160 (130)	
	Vinyl chloride	20	20.3	ug/Kg	102			70 (72)	130 (129)	
	Bromomethane	20	21.3	ug/Kg	106			40 (58)	160 (141)	
	Chloroethane	20	22.5	ug/Kg	113			40 (69)	160 (130)	
	Trichlorofluoromethane	20	21.3	ug/Kg	106			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.6	ug/Kg	103			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.0	ug/Kg	95			70 (79)	130 (121)	
	Acetone	100	96.9	ug/Kg	97			40 (60)	160 (131)	
	Carbon disulfide	20	18.8	ug/Kg	94			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	18.2	ug/Kg	91			70 (77)	130 (129)	
	Methyl Acetate	20	19.2	ug/Kg	96			70 (69)	130 (149)	
	Methylene Chloride	20	19.9	ug/Kg	100			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	18.5	ug/Kg	93			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.0	ug/Kg	95			70 (82)	130 (123)	
	Cyclohexane	20	18.3	ug/Kg	92			70 (76)	130 (122)	
	2-Butanone	100	83.2	ug/Kg	83			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.8	ug/Kg	99			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	18.4	ug/Kg	92			70 (82)	130 (123)	
	Bromochloromethane	20	17.9	ug/Kg	90			70 (80)	130 (127)	
	Chloroform	20	20.1	ug/Kg	101			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.8	ug/Kg	104			70 (80)	130 (126)	
	Methylcyclohexane	20	18.3	ug/Kg	92			70 (77)	130 (123)	
	Benzene	20	19.3	ug/Kg	97			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.3	ug/Kg	102			70 (81)	130 (126)	
	Trichloroethene	20	19.6	ug/Kg	98			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.0	ug/Kg	100			70 (83)	130 (122)	
	Bromodichloromethane	20	19.5	ug/Kg	98			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	98.5	ug/Kg	99			40 (70)	160 (135)	
	Toluene	20	19.5	ug/Kg	98			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	18.3	ug/Kg	92			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.3	ug/Kg	102			70 (82)	130 (125)	
	2-Hexanone	100	92.0	ug/Kg	92			40 (66)	160 (138)	
	Dibromochloromethane	20	20.9	ug/Kg	104			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.9	ug/Kg	104			70 (80)	130 (125)	
	Tetrachloroethene	20	21.2	ug/Kg	106			70 (83)	130 (125)	
	Chlorobenzene	20	19.7	ug/Kg	99			70 (84)	130 (122)	
	Ethyl Benzene	20	18.5	ug/Kg	93			70 (82)	130 (124)	
	m/p-Xylenes	40	38.7	ug/Kg	97			70 (83)	130 (124)	
	o-Xylene	20	19.7	ug/Kg	99			70 (83)	130 (123)	
	Styrene	20	19.2	ug/Kg	96			70 (82)	130 (124)	
	Bromoform	20	20.2	ug/Kg	101			70 (75)	130 (127)	
	Isopropylbenzene	20	18.5	ug/Kg	93			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	19.9	ug/Kg	100			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.6	ug/Kg	98			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.5	ug/Kg	98			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.4	ug/Kg	97			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4860
Client: Tetra Tech
Analytical Method: SW8260D **Datafile :** VD080060.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VD1118SBS01	1,2-Dibromo-3-Chloropropane	20	18.7	ug/Kg	94			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	20.4	ug/Kg	102			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	20.5	ug/Kg	103			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4860

Client: Tetra Tech

Analytical Method: SW8260D

Datafile : VD080061.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VD1118SBSD01	Dichlorodifluoromethane	20	18.6	ug/Kg	93	2		40 (64)	160 (136)	30 (20)
	Chloromethane	20	17.2	ug/Kg	86	14		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	17.9	ug/Kg	90	13		70 (72)	130 (129)	30 (20)
	Bromomethane	20	17.1	ug/Kg	86	21		40 (58)	160 (141)	30 (20)
	Chloroethane	20	17.5	ug/Kg	88	25		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	19.7	ug/Kg	99	7		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.0	ug/Kg	105	2		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	20.1	ug/Kg	101	6		70 (79)	130 (121)	30 (20)
	Acetone	100	110	ug/Kg	110	13		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	19.7	ug/Kg	99	5		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	20.9	ug/Kg	104	13		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	21.7	ug/Kg	109	13		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	21.4	ug/Kg	107	7		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	20.2	ug/Kg	101	8		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	20.2	ug/Kg	101	6		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	19.0	ug/Kg	95	3		70 (76)	130 (122)	30 (20)
	2-Butanone	100	100	ug/Kg	100	19		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	21.5	ug/Kg	108	9		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.3	ug/Kg	102	10		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	18.2	ug/Kg	91	1		70 (80)	130 (127)	30 (20)
	Chloroform	20	21.0	ug/Kg	105	4		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	20.6	ug/Kg	103	1		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.6	ug/Kg	98	6		70 (77)	130 (123)	30 (20)
	Benzene	20	20.8	ug/Kg	104	7		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	22.1	ug/Kg	111	8		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.5	ug/Kg	103	5		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	21.1	ug/Kg	106	6		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	21.6	ug/Kg	108	10		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	11		40 (70)	160 (135)	30 (20)
	Toluene	20	21.3	ug/Kg	106	8		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	20.9	ug/Kg	104	12		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	21.9	ug/Kg	110	13		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	22.6	ug/Kg	113	10		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	110	ug/Kg	110	18		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	23.4	ug/Kg	117	12		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	22.4	ug/Kg	112	7		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	20.5	ug/Kg	103	3		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	20.3	ug/Kg	102	3		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	19.3	ug/Kg	97	4		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	39.5	ug/Kg	99	2		70 (83)	130 (124)	30 (20)
	o-Xylene	20	19.7	ug/Kg	99	0		70 (83)	130 (123)	30 (20)
	Styrene	20	20.5	ug/Kg	103	7		70 (82)	130 (124)	30 (20)
	Bromoform	20	21.6	ug/Kg	108	7		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.9	ug/Kg	100	7		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	21.9	ug/Kg	110	10		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	20.6	ug/Kg	103	5		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103	5		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	20.9	ug/Kg	104	7		70 (83)	130 (124)	30 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4860
Client: Tetra Tech
Analytical Method: SW8260D **Datafile :** VD080061.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VD1118SBSD01	1,2-Dibromo-3-Chloropropane	20	22.6	ug/Kg	113	18		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	19.8	ug/Kg	99	3		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	20.8	ug/Kg	104	1		70 (70)	130 (137)	30 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4860

Client: Tetra Tech

Analytical Method: SW8260D

Datafile : VY020349.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1120SBS01	Dichlorodifluoromethane	20	21.8	ug/Kg	109			40 (64)	160 (136)	
	Chloromethane	20	14.5	ug/Kg	73			40 (70)	160 (130)	
	Vinyl chloride	20	16.0	ug/Kg	80			70 (72)	130 (129)	
	Bromomethane	20	16.6	ug/Kg	83			40 (58)	160 (141)	
	Chloroethane	20	15.9	ug/Kg	79			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.1	ug/Kg	96			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	18.2	ug/Kg	91			70 (81)	130 (123)	
	1,1-Dichloroethene	20	17.9	ug/Kg	90			70 (79)	130 (121)	
	Acetone	100	85.6	ug/Kg	86			40 (60)	160 (131)	
	Carbon disulfide	20	17.2	ug/Kg	86			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	17.6	ug/Kg	88			70 (77)	130 (129)	
	Methyl Acetate	20	16.3	ug/Kg	81			70 (69)	130 (149)	
	Methylene Chloride	20	17.3	ug/Kg	86			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	17.2	ug/Kg	86			70 (80)	130 (123)	
	1,1-Dichloroethane	20	17.6	ug/Kg	88			70 (82)	130 (123)	
	Cyclohexane	20	18.4	ug/Kg	92			70 (76)	130 (122)	
	2-Butanone	100	92.7	ug/Kg	93			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.2	ug/Kg	101			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	18.0	ug/Kg	90			70 (82)	130 (123)	
	Bromochloromethane	20	17.3	ug/Kg	86			70 (80)	130 (127)	
	Chloroform	20	17.6	ug/Kg	88			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	18.7	ug/Kg	94			70 (80)	130 (126)	
	Methylcyclohexane	20	19.5	ug/Kg	98			70 (77)	130 (123)	
	Benzene	20	18.9	ug/Kg	95			70 (84)	130 (121)	
	1,2-Dichloroethane	20	19.0	ug/Kg	95			70 (81)	130 (126)	
	Trichloroethene	20	18.6	ug/Kg	93			70 (83)	130 (122)	
	1,2-Dichloropropane	20	18.2	ug/Kg	91			70 (83)	130 (122)	
	Bromodichloromethane	20	18.4	ug/Kg	92			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	93.2	ug/Kg	93			40 (70)	160 (135)	
	Toluene	20	18.9	ug/Kg	95			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	18.2	ug/Kg	91			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	18.9	ug/Kg	95			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	17.9	ug/Kg	90			70 (82)	130 (125)	
	2-Hexanone	100	94.7	ug/Kg	95			40 (66)	160 (138)	
	Dibromochloromethane	20	17.9	ug/Kg	90			70 (79)	130 (125)	
	1,2-Dibromoethane	20	17.6	ug/Kg	88			70 (80)	130 (125)	
	Tetrachloroethene	20	18.4	ug/Kg	92			70 (83)	130 (125)	
	Chlorobenzene	20	18.3	ug/Kg	92			70 (84)	130 (122)	
	Ethyl Benzene	20	18.7	ug/Kg	94			70 (82)	130 (124)	
	m/p-Xylenes	40	38.1	ug/Kg	95			70 (83)	130 (124)	
	o-Xylene	20	18.6	ug/Kg	93			70 (83)	130 (123)	
	Styrene	20	19.2	ug/Kg	96			70 (82)	130 (124)	
	Bromoform	20	18.7	ug/Kg	94			70 (75)	130 (127)	
	Isopropylbenzene	20	18.5	ug/Kg	93			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	17.3	ug/Kg	86			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	17.8	ug/Kg	89			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	18.1	ug/Kg	91			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	17.9	ug/Kg	90			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4860
Client: Tetra Tech
Analytical Method: SW8260D **Datafile :** VY020349.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1120SBS01	1,2-Dibromo-3-Chloropropane	20	17.3	ug/Kg	86			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.2	ug/Kg	91			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.2	ug/Kg	91			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4860

Client: Tetra Tech

Analytical Method: SW8260D

Datafile : VY020375.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1121SBS01	Dichlorodifluoromethane	20	22.3	ug/Kg	112			40 (64)	160 (136)	
	Chloromethane	20	14.3	ug/Kg	72			40 (70)	160 (130)	
	Vinyl chloride	20	15.8	ug/Kg	79			70 (72)	130 (129)	
	Bromomethane	20	17.3	ug/Kg	86			40 (58)	160 (141)	
	Chloroethane	20	17.0	ug/Kg	85			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.8	ug/Kg	99			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	18.3	ug/Kg	92			70 (81)	130 (123)	
	1,1-Dichloroethene	20	18.3	ug/Kg	92			70 (79)	130 (121)	
	Acetone	100	93.9	ug/Kg	94			40 (60)	160 (131)	
	Carbon disulfide	20	17.3	ug/Kg	86			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.3	ug/Kg	97			70 (77)	130 (129)	
	Methyl Acetate	20	18.1	ug/Kg	91			70 (69)	130 (149)	
	Methylene Chloride	20	19.0	ug/Kg	95			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	17.9	ug/Kg	90			70 (80)	130 (123)	
	1,1-Dichloroethane	20	18.5	ug/Kg	93			70 (82)	130 (123)	
	Cyclohexane	20	18.7	ug/Kg	94			70 (76)	130 (122)	
	2-Butanone	100	99.8	ug/Kg	100			40 (69)	160 (131)	
	Carbon Tetrachloride	20	21.1	ug/Kg	106			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	18.9	ug/Kg	95			70 (82)	130 (123)	
	Bromochloromethane	20	18.1	ug/Kg	91			70 (80)	130 (127)	
	Chloroform	20	19.0	ug/Kg	95			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.2	ug/Kg	101			70 (80)	130 (126)	
	Methylcyclohexane	20	18.8	ug/Kg	94			70 (77)	130 (123)	
	Benzene	20	19.6	ug/Kg	98			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.7	ug/Kg	104			70 (81)	130 (126)	
	Trichloroethene	20	19.3	ug/Kg	97			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.1	ug/Kg	96			70 (83)	130 (122)	
	Bromodichloromethane	20	19.9	ug/Kg	100			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	99.7	ug/Kg	100			40 (70)	160 (135)	
	Toluene	20	19.3	ug/Kg	97			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.2	ug/Kg	96			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.9	ug/Kg	100			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	19.0	ug/Kg	95			70 (82)	130 (125)	
	2-Hexanone	100	100	ug/Kg	100			40 (66)	160 (138)	
	Dibromochloromethane	20	19.8	ug/Kg	99			70 (79)	130 (125)	
	1,2-Dibromoethane	20	18.7	ug/Kg	94			70 (80)	130 (125)	
	Tetrachloroethene	20	18.6	ug/Kg	93			70 (83)	130 (125)	
	Chlorobenzene	20	18.6	ug/Kg	93			70 (84)	130 (122)	
	Ethyl Benzene	20	19.0	ug/Kg	95			70 (82)	130 (124)	
	m/p-Xylenes	40	39.2	ug/Kg	98			70 (83)	130 (124)	
	o-Xylene	20	19.5	ug/Kg	98			70 (83)	130 (123)	
	Styrene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	Bromoform	20	20.7	ug/Kg	104			70 (75)	130 (127)	
	Isopropylbenzene	20	18.4	ug/Kg	92			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.2	ug/Kg	91			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	17.8	ug/Kg	89			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	18.4	ug/Kg	92			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	18.6	ug/Kg	93			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4860
Client: Tetra Tech
Analytical Method: SW8260D **Datafile :** VY020375.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1121SBS01	1,2-Dibromo-3-Chloropropane	20	18.1	ug/Kg	91			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	17.9	ug/Kg	90			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	17.6	ug/Kg	88			70 (70)	130 (137)	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VD1118SBL01

Lab Name: CHEMTECH

Contract: CORN02

Lab Code: CHEM Case No.: P4860

SAS No.: P4860 SDG NO.: P4860

Lab File ID: VD080059.D

Lab Sample ID: VD1118SBL01

Date Analyzed: 11/18/2024

Time Analyzed: 10:27

GC Column: RTX-VMS ID: 0.18 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_D

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VD1118SBS01	VD1118SBS01	VD080060.D	11/18/2024
VD1118SBSD01	VD1118SBSD01	VD080061.D	11/18/2024
DUP-01	P4860-01	VD080072.D	11/18/2024
PH2-BOT-001	P4860-02	VD080073.D	11/18/2024
PH2-BPT-003	P4860-04	VD080075.D	11/18/2024
PH2-BPT-004	P4860-05	VD080076.D	11/18/2024
PH2-BOT-008	P4860-07	VD080078.D	11/18/2024
PH2-BOT-007	P4860-08	VD080079.D	11/18/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1120SBL01

Lab Name: CHEMTECH

Contract: CORN02

Lab Code: CHEM Case No.: P4860

SAS No.: P4860 SDG NO.: P4860

Lab File ID: VY020348.D

Lab Sample ID: VY1120SBL01

Date Analyzed: 11/20/2024

Time Analyzed: 10:07

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
VY1120SBS01	VY1120SBS01	VY020349.D	11/20/2024
PH2-BOT-002	P4860-03	VY020368.D	11/20/2024
PH2-BOT-009	P4860-06	VY020369.D	11/20/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1121SBL01

Lab Name: CHEMTECH

Contract: CORN02

Lab Code: CHEM Case No.: P4860

SAS No.: P4860 SDG NO.: P4860

Lab File ID: VY020374.D

Lab Sample ID: VY1121SBL01

Date Analyzed: 11/21/2024

Time Analyzed: 09:59

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
VY1121SBS01	VY1121SBS01	VY020375.D	11/21/2024
PH2-BOT-005	P4860-10	VY020389.D	11/21/2024
PH2-BOT-006	P4860-09	VY020390.D	11/21/2024

COMMENTS: _____



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CORN02
Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860
Lab File ID: VD080010.D BFB Injection Date: 11/14/2024
Instrument ID: MSVOA_D BFB Injection Time: 17:14
GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.7
75	30.0 - 60.0% of mass 95	50
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 (0.7) 1
174	50.0 - 100.0% of mass 95	95
175	5.0 - 9.0% of mass 174	7.4 (7.8) 1
176	95.0 - 101.0% of mass 174	90.2 (95) 1
177	5.0 - 9.0% of mass 176	6.3 (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
VSTDIC005	VSTDIC005	VD080011.D	11/14/2024	18:02
VSTDIC010	VSTDIC010	VD080012.D	11/14/2024	18:29
VSTDIC020	VSTDIC020	VD080013.D	11/14/2024	18:56
VSTDIC050	VSTDIC050	VD080014.D	11/14/2024	19:22
VSTDIC100	VSTDIC100	VD080015.D	11/14/2024	19:49
VSTDIC150	VSTDIC150	VD080016.D	11/14/2024	20:16



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CORN02
Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860
Lab File ID: VD080019.D BFB Injection Date: 11/15/2024
Instrument ID: MSVOA_D BFB Injection Time: 09:14
GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.1
75	30.0 - 60.0% of mass 95	50.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	90.2
175	5.0 - 9.0% of mass 174	7.3 (8.1) 1
176	95.0 - 101.0% of mass 174	87.4 (97) 1
177	5.0 - 9.0% of mass 176	5.9 (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
VSTDIC005	VSTDIC005	VD080020.D	11/15/2024	10:04
VSTDIC010	VSTDIC010	VD080021.D	11/15/2024	10:31
VSTDIC020	VSTDIC020	VD080022.D	11/15/2024	10:58
VSTDIC050	VSTDIC050	VD080023.D	11/15/2024	11:24
VSTDIC100	VSTDIC100	VD080024.D	11/15/2024	11:51
VSTDIC150	VSTDIC150	VD080025.D	11/15/2024	12:18



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CORN02
Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860
Lab File ID: VD080057.D BFB Injection Date: 11/18/2024
Instrument ID: MSVOA_D BFB Injection Time: 09:21
GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 60.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.7 (0.8) 1
174	50.0 - 100.0% of mass 95	93
175	5.0 - 9.0% of mass 174	7.3 (7.9) 1
176	95.0 - 101.0% of mass 174	92 (98.9) 1
177	5.0 - 9.0% of mass 176	5.8 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VD080058.D	11/18/2024	09:51
VD1118SBL01	VD1118SBL01	VD080059.D	11/18/2024	10:27
VD1118SBS01	VD1118SBS01	VD080060.D	11/18/2024	10:55
VD1118SBSD01	VD1118SBSD01	VD080061.D	11/18/2024	11:22
DUP-01	P4860-01	VD080072.D	11/18/2024	16:39
PH2-BOT-001	P4860-02	VD080073.D	11/18/2024	17:06
PH2-BPT-003	P4860-04	VD080075.D	11/18/2024	18:00
PH2-BPT-004	P4860-05	VD080076.D	11/18/2024	18:28
PH2-BOT-008	P4860-07	VD080078.D	11/18/2024	19:22
PH2-BOT-007	P4860-08	VD080079.D	11/18/2024	19:49



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CORN02
Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860
Lab File ID: VY020337.D BFB Injection Date: 11/19/2024
Instrument ID: MSVOA_Y BFB Injection Time: 14:40
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.7
75	30.0 - 60.0% of mass 95	55.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (0.9) 1
174	50.0 - 100.0% of mass 95	81.6
175	5.0 - 9.0% of mass 174	6.4 (7.8) 1
176	95.0 - 101.0% of mass 174	79 (96.8) 1
177	5.0 - 9.0% of mass 176	5.4 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY020338.D	11/19/2024	15:49
VSTDICC010	VSTDICC010	VY020339.D	11/19/2024	16:12
VSTDICC020	VSTDICC020	VY020340.D	11/19/2024	16:35
VSTDICC050	VSTDICC050	VY020341.D	11/19/2024	16:57
VSTDICC100	VSTDICC100	VY020342.D	11/19/2024	17:20
VSTDICC150	VSTDICC150	VY020343.D	11/19/2024	17:42



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CORN02
Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860
Lab File ID: VY020346.D BFB Injection Date: 11/20/2024
Instrument ID: MSVOA_Y BFB Injection Time: 08:23
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	20.6
75	30.0 - 60.0% of mass 95	56.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (0.5) 1
174	50.0 - 100.0% of mass 95	76
175	5.0 - 9.0% of mass 174	6.1 (8) 1
176	95.0 - 101.0% of mass 174	72.7 (95.6) 1
177	5.0 - 9.0% of mass 176	5.1 (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	VY020347.D	11/20/2024	09:34
VY1120SBL01	VY1120SBL01	VY020348.D	11/20/2024	10:07
VY1120SBS01	VY1120SBS01	VY020349.D	11/20/2024	10:53
PH2-BOT-002	P4860-03	VY020368.D	11/20/2024	18:35
PH2-BOT-009	P4860-06	VY020369.D	11/20/2024	18:58



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CORN02
Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860
Lab File ID: VY020372.D BFB Injection Date: 11/21/2024
Instrument ID: MSVOA_Y BFB Injection Time: 08:32
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	55.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	73.7
175	5.0 - 9.0% of mass 174	5.8 (7.9) 1
176	95.0 - 101.0% of mass 174	70.4 (95.6) 1
177	5.0 - 9.0% of mass 176	4.7 (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	VY020373.D	11/21/2024	09:25
VY1121SBL01	VY1121SBL01	VY020374.D	11/21/2024	09:59
VY1121SBS01	VY1121SBS01	VY020375.D	11/21/2024	10:39
PH2-BOT-005	P4860-10	VY020389.D	11/21/2024	16:06
PH2-BOT-006	P4860-09	VY020390.D	11/21/2024	16:30

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CORN02
 Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860
 Lab File ID: VD080058.D Date Analyzed: 11/18/2024
 Instrument ID: MSVOA_D Time Analyzed: 09:51
 GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	175845	7.88	262205	8.78	246582	11.58
UPPER LIMIT	351690	8.375	524410	9.281	493164	12.081
LOWER LIMIT	87922.5	7.375	131103	8.281	123291	11.081
EPA SAMPLE NO.						
DUP-01	213473	7.88	350981	8.78	340318	11.58
PH2-BOT-001	219259	7.88	366320	8.78	329102	11.58
PH2-BPT-003	207332	7.88	367976	8.78	326426	11.58
PH2-BPT-004	200921	7.88	364222	8.78	324341	11.58
PH2-BOT-008	209792	7.88	360025	8.78	320832	11.58
PH2-BOT-007	216854	7.88	352745	8.78	326096	11.58
VD1118SBL01	175706	7.88	294729	8.78	273326	11.58
VD1118SBS01	178101	7.88	282863	8.78	258933	11.58
VD1118SBSD01	185362	7.88	285036	8.78	278035	11.58

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CORN02
 Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860
 Lab File ID: VD080058.D Date Analyzed: 11/18/2024
 Instrument ID: MSVOA_D Time Analyzed: 09:51
 GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	138959	13.516				
UPPER LIMIT	277918	14.016				
LOWER LIMIT	69479.5	13.016				
EPA SAMPLE NO.						
DUP-01	150840	13.52				
PH2-BOT-001	146457	13.52				
PH2-BPT-003	150989	13.52				
PH2-BPT-004	143861	13.52				
PH2-BOT-008	141967	13.52				
PH2-BOT-007	151026	13.52				
VD1118SBL01	122131	13.52				
VD1118SBS01	141556	13.52				
VD1118SBSD01	143766	13.52				

IS4 = 1,4-Dichlorobenzene-d4

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CORN02
Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860
Lab File ID: VY020347.D Date Analyzed: 11/20/2024
Instrument ID: MSVOA_Y Time Analyzed: 09:34
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	225214	7.71	368816	8.62	305686	11.42
UPPER LIMIT	450428	8.213	737632	9.122	611372	11.92
LOWER LIMIT	112607	7.213	184408	8.122	152843	10.92
EPA SAMPLE NO.						
PH2-BOT-002	137679	7.71	269671	8.62	257307	11.41
PH2-BOT-009	142975	7.71	273649	8.62	253521	11.41
VY1120SBL01	160712	7.71	312610	8.62	282610	11.42
VY1120SBS01	210349	7.71	347339	8.62	288195	11.42

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CORN02
 Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860
 Lab File ID: VY020347.D Date Analyzed: 11/20/2024
 Instrument ID: MSVOA_Y Time Analyzed: 09:34
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	139421	13.352				
UPPER LIMIT	278842	13.852				
LOWER LIMIT	69710.5	12.852				
EPA SAMPLE NO.						
PH2-BOT-002	102362	13.35				
PH2-BOT-009	99327	13.35				
VY1120SBL01	104132	13.35				
VY1120SBS01	135305	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CORN02
Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860
Lab File ID: VY020373.D Date Analyzed: 11/21/2024
Instrument ID: MSVOA_Y Time Analyzed: 09:25
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	191018	7.71	313957	8.62	263957	11.42
UPPER LIMIT	382036	8.213	627914	9.122	527914	11.92
LOWER LIMIT	95509	7.213	156979	8.122	131979	10.92
EPA SAMPLE NO.						
PH2-BOT-006	140871	7.71	273565	8.62	262252	11.41
PH2-BOT-005	140636	7.71	270374	8.62	252016	11.41
VY1121SBL01	139506	7.71	270751	8.62	245370	11.42
VY1121SBS01	180247	7.71	303523	8.62	255135	11.42

IS1 = Pentafluorobenzene

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CORN02
 Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860
 Lab File ID: VY020373.D Date Analyzed: 11/21/2024
 Instrument ID: MSVOA_Y Time Analyzed: 09:25
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	121826	13.352				
UPPER LIMIT	243652	13.852				
LOWER LIMIT	60913	12.852				
EPA SAMPLE NO.						
PH2-BOT-006	106466	13.35				
PH2-BOT-005	101642	13.35				
VY1121SBL01	89046	13.35				
VY1121SBS01	121310	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

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	DUP-01	SDG No.:	P4860
Lab Sample ID:	P4860-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	96.8
Sample Wt/Vol:	6.22	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RTX-VMS	ID :	0.18
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080072.D	1		11/18/24 16:39	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	4.20	ug/Kg
74-87-3	Chloromethane	0.96	U	0.96	4.20	ug/Kg
75-01-4	Vinyl Chloride	0.64	U	0.64	4.20	ug/Kg
74-83-9	Bromomethane	0.86	U	0.86	4.20	ug/Kg
75-00-3	Chloroethane	0.84	U	0.84	4.20	ug/Kg
75-69-4	Trichlorofluoromethane	0.76	U	0.76	4.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.89	U	0.89	4.20	ug/Kg
75-35-4	1,1-Dichloroethene	0.65	U	0.65	4.20	ug/Kg
67-64-1	Acetone	5.20	U	5.20	20.8	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	4.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.56	U	0.56	4.20	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.20	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	8.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.70	U	0.70	4.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.52	U	0.52	4.20	ug/Kg
110-82-7	Cyclohexane	0.57	U	0.57	4.20	ug/Kg
78-93-3	2-Butanone	4.70	U	4.70	20.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.72	U	0.72	4.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.51	U	0.51	4.20	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	4.20	ug/Kg
67-66-3	Chloroform	0.56	U	0.56	4.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.65	U	0.65	4.20	ug/Kg
108-87-2	Methylcyclohexane	0.72	U	0.72	4.20	ug/Kg
71-43-2	Benzene	0.60	U	0.60	4.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.51	U	0.51	4.20	ug/Kg
79-01-6	Trichloroethene	0.62	U	0.62	4.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.55	U	0.55	4.20	ug/Kg
75-27-4	Bromodichloromethane	0.47	U	0.47	4.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	20.8	ug/Kg
108-88-3	Toluene	0.56	U	0.56	4.20	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	DUP-01	SDG No.:	P4860
Lab Sample ID:	P4860-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	96.8
Sample Wt/Vol:	6.22	Units: g	Final Vol: 5000 uL
Soil Aliquot Vol:		uL	Test: VOC-TCLVOA-10
GC Column:	RTX-VMS	ID : 0.18	Level : LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080072.D	1		11/18/24 16:39	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.50	4.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.47	U	0.47	4.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.70	U	0.70	4.20	ug/Kg
591-78-6	2-Hexanone	4.00	U	4.00	20.8	ug/Kg
124-48-1	Dibromochloromethane	0.54	U	0.54	4.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.66	U	0.66	4.20	ug/Kg
127-18-4	Tetrachloroethene	0.74	U	0.74	4.20	ug/Kg
108-90-7	Chlorobenzene	0.61	U	0.61	4.20	ug/Kg
100-41-4	Ethyl Benzene	0.51	U	0.51	4.20	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.30	ug/Kg
95-47-6	o-Xylene	0.58	U	0.58	4.20	ug/Kg
100-42-5	Styrene	0.50	U	0.50	4.20	ug/Kg
75-25-2	Bromoform	0.67	U	0.67	4.20	ug/Kg
98-82-8	Isopropylbenzene	0.56	U	0.56	4.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.91	U	0.91	4.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.61	U	0.61	4.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.66	U	0.66	4.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.49	U	0.49	4.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.66	U	0.66	4.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.65	U	0.65	4.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.1		70 (50) - 130 (163)	84%	SPK: 50
1868-53-7	Dibromofluoromethane	44.0		70 (54) - 130 (147)	88%	SPK: 50
2037-26-5	Toluene-d8	40.2		70 (58) - 130 (134)	80%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.3		70 (29) - 130 (146)	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	213000	7.875			
540-36-3	1,4-Difluorobenzene	351000	8.775			
3114-55-4	Chlorobenzene-d5	340000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.516			

Report of Analysis

Client:	Tetra Tech		Date Collected:	11/14/24	
Project:	Ocean County Landfill 2024		Date Received:	11/14/24	
Client Sample ID:	DUP-01		SDG No.:	P4860	
Lab Sample ID:	P4860-01		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	96.8	
Sample Wt/Vol:	6.22	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RTX-VMS	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080072.D	1		11/18/24 16:39	VD111824

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_D\Data\VD111824\
 Data File : VD080072.D
 Acq On : 18 Nov 2024 16:39
 Operator : RP/MD
 Sample : P4860-01
 Misc : 6.22G/5ml/MSVOA_D/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 DUP-01

Quant Time: Nov 19 04:48:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	213473	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	350981	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	340318	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	150840	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	92578	42.121	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	84.240%
35) Dibromofluoromethane	7.804	113	102719	43.974	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	87.940%
50) Toluene-d8	10.269	98	353984	40.207	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	80.420%
62) 4-Bromofluorobenzene	12.569	95	107786	37.316	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	74.640%

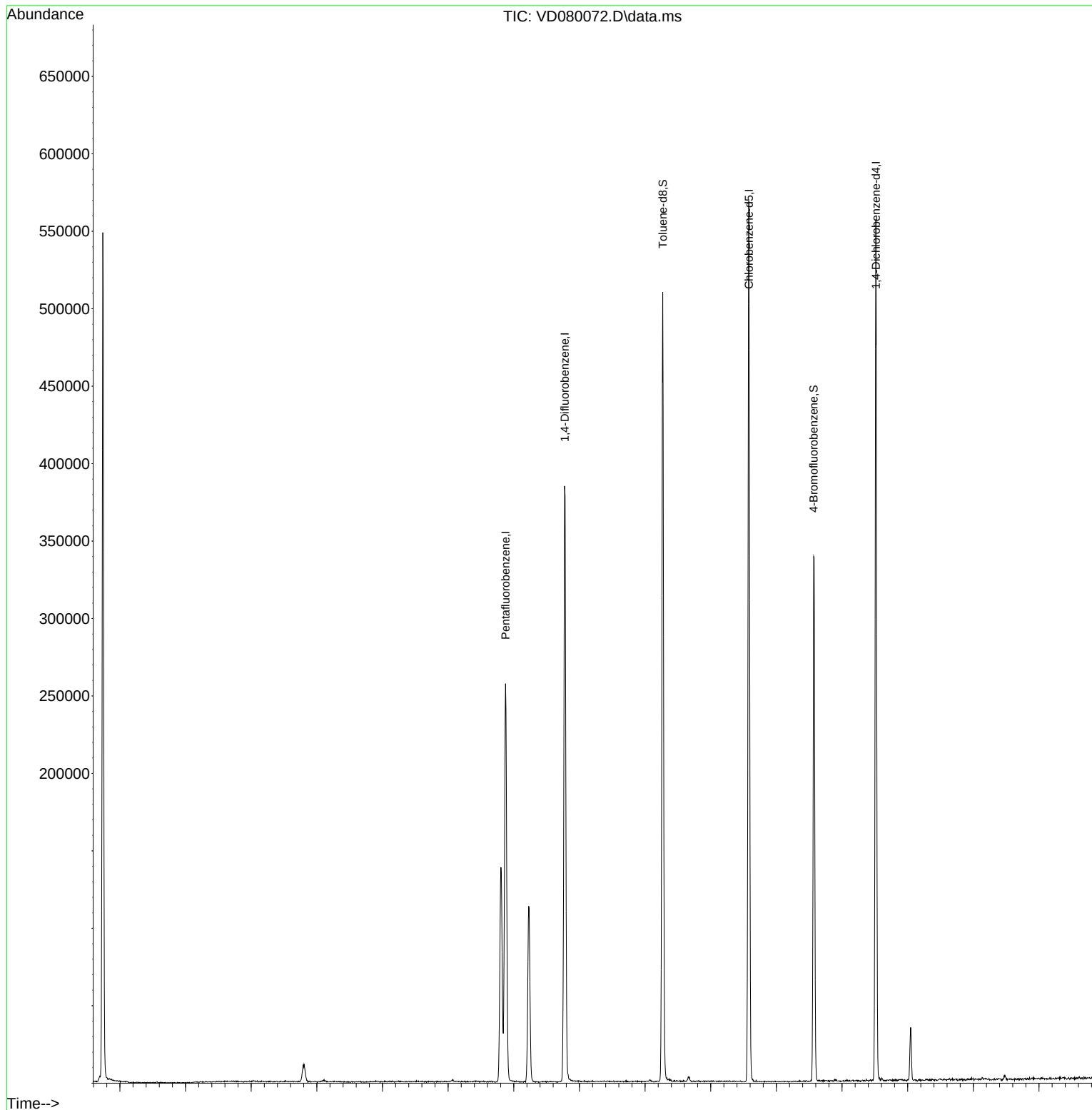
Target Compounds Qvalue

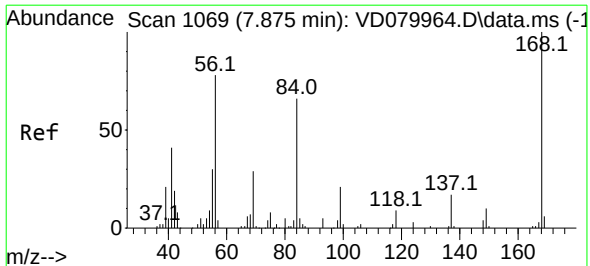
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080072.D
Acq On : 18 Nov 2024 16:39
Operator : RP/MD
Sample : P4860-01
Misc : 6.22G/5ml/MSVOA_D/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
DUP-01

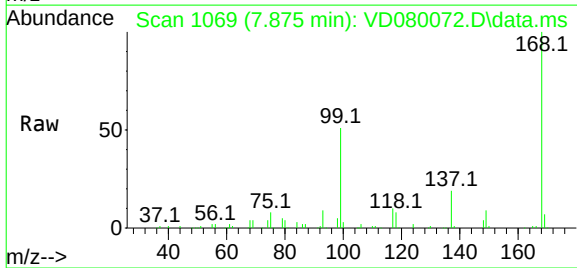
Quant Time: Nov 19 04:48:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



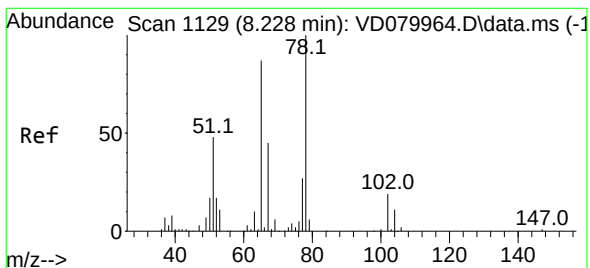
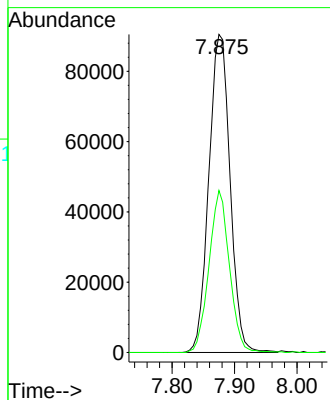
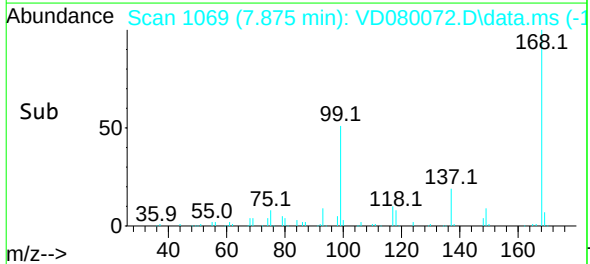


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD080072.D
Acq: 18 Nov 2024 16:39

Instrument :
MSVOA_D
ClientSampleId :
DUP-01

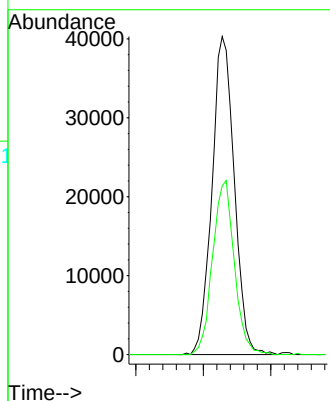
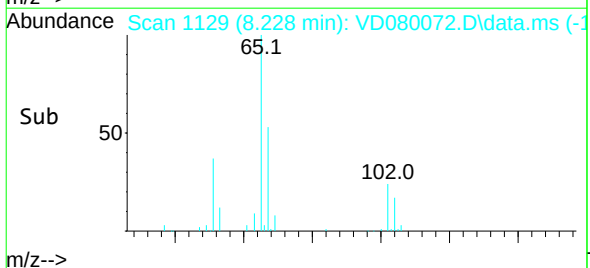
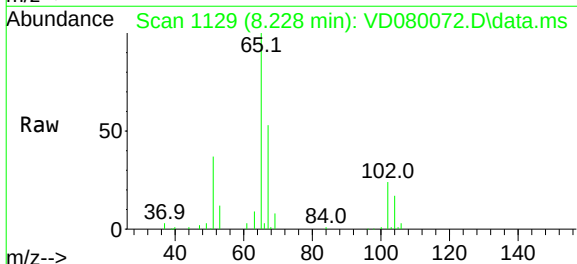


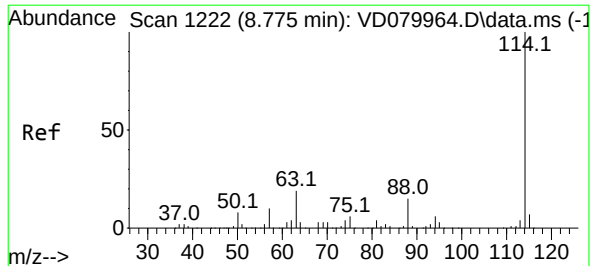
Tgt Ion:168 Resp: 213473
Ion Ratio Lower Upper
168 100
99 50.9 46.0 69.0



#33
1,2-Dichloroethane-d4
Concen: 42.121 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VD080072.D
Acq: 18 Nov 2024 16:39

Tgt Ion: 65 Resp: 92578
Ion Ratio Lower Upper
65 100
67 53.3 0.0 109.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. 0.000 min

Lab File: VD080072.D

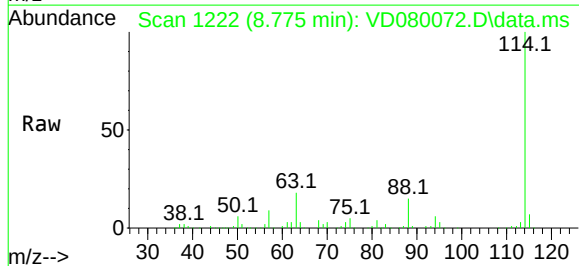
Acq: 18 Nov 2024 16:39

Instrument :

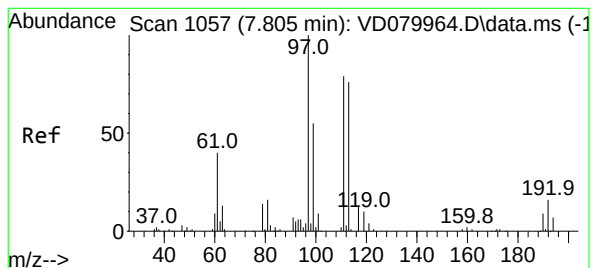
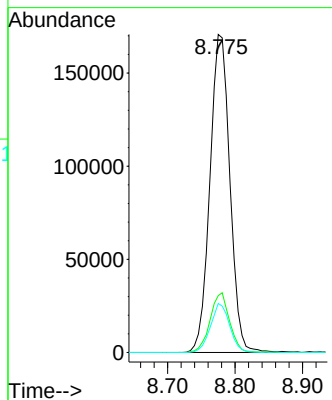
MSVOA_D

ClientSampleId :

DUP-01



Tgt Ion:	114	Resp:	350981
Ion	Ratio	Lower	Upper
114	100		
63	17.9	0.0	38.8
88	15.4	0.0	30.6



#35

Dibromofluoromethane

Concen: 43.974 ug/l

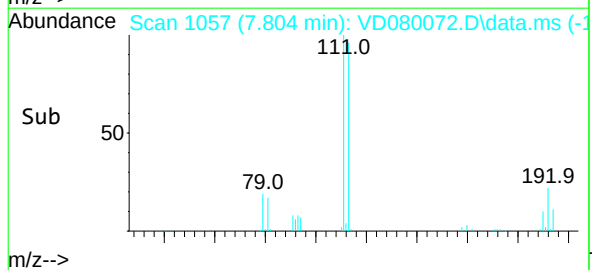
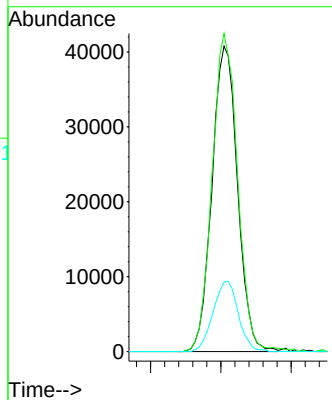
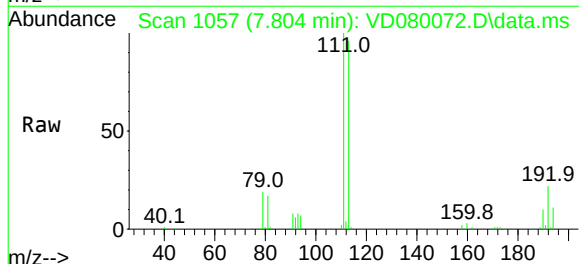
RT: 7.804 min Scan# 1057

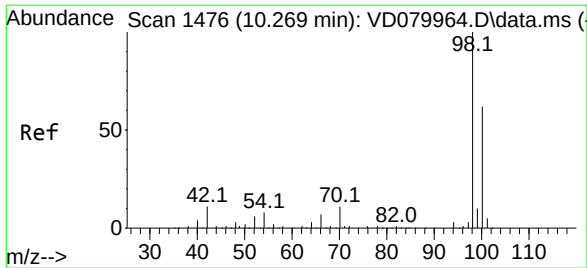
Delta R.T. -0.001 min

Lab File: VD080072.D

Acq: 18 Nov 2024 16:39

Tgt Ion:	113	Resp:	102719
Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.5	123.7
192	22.8	16.6	25.0





#50

Toluene-d8

Concen: 40.207 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD080072.D

Acq: 18 Nov 2024 16:39

Instrument :

MSVOA_D

ClientSampleId :

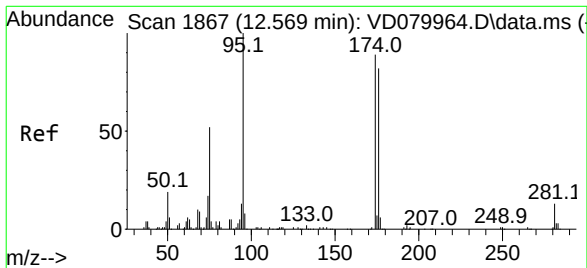
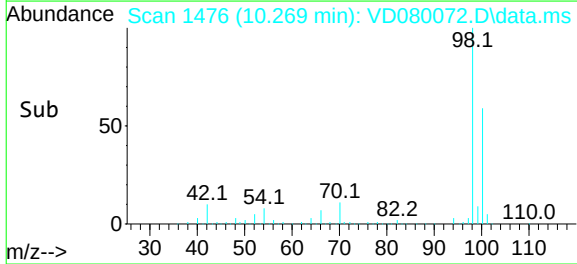
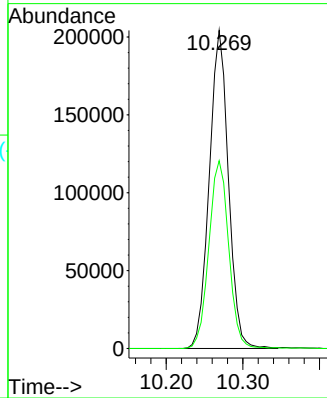
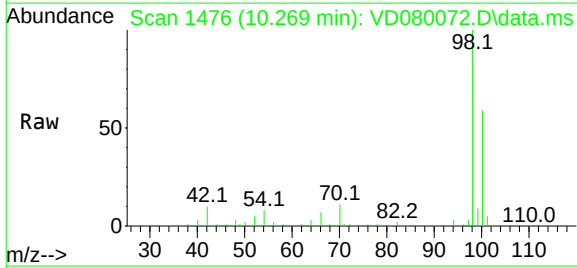
DUP-01

Tgt Ion: 98 Resp: 353984

Ion Ratio Lower Upper

98 100

100 61.3 50.2 75.4



#62

4-Bromofluorobenzene

Concen: 37.316 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VD080072.D

Acq: 18 Nov 2024 16:39

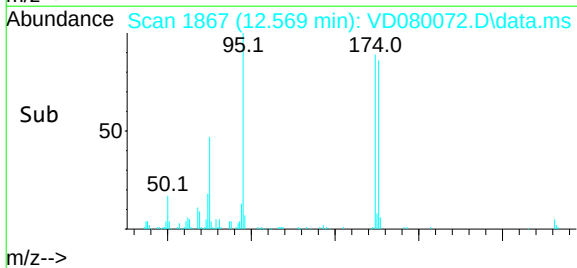
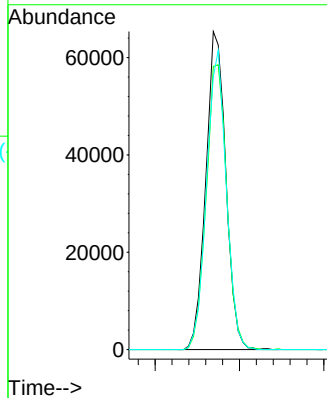
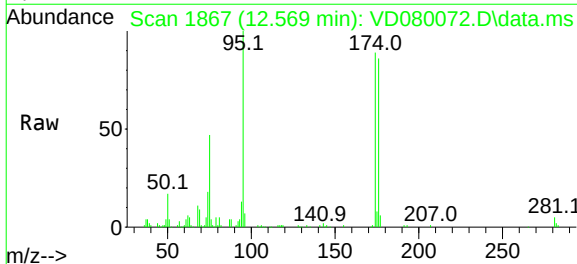
Tgt Ion: 95 Resp: 107786

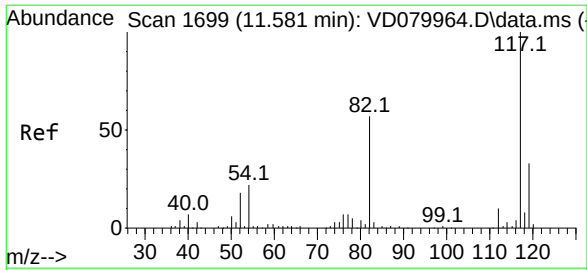
Ion Ratio Lower Upper

95 100

174 92.2 0.0 173.4

176 92.6 0.0 166.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.581 min Scan# 1699

Delta R.T. -0.000 min

Lab File: VD080072.D

Acq: 18 Nov 2024 16:39

Instrument :

MSVOA_D

ClientSampleId :

DUP-01

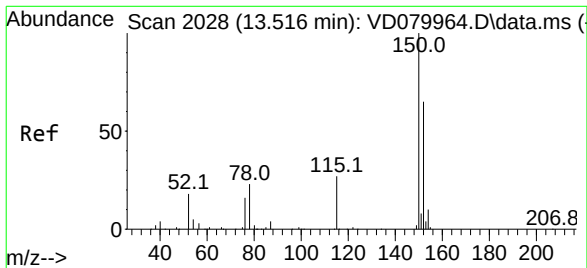
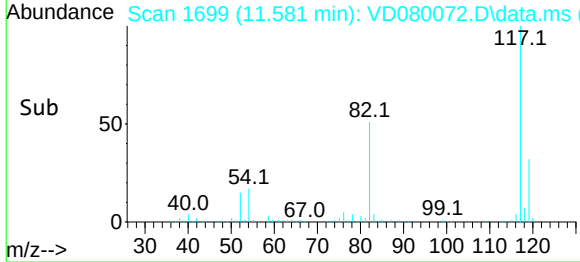
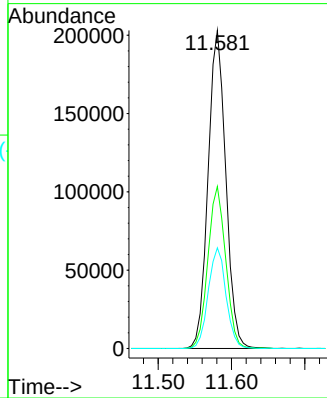
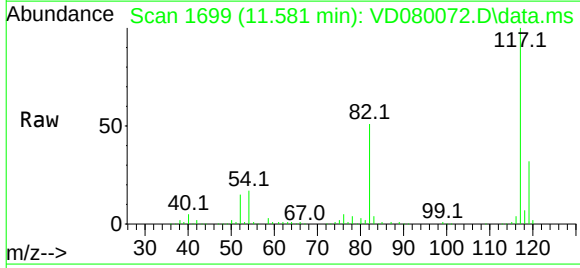
Tgt Ion:117 Resp: 340318

Ion Ratio Lower Upper

117 100

82 50.9 45.8 68.6

119 31.6 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. -0.000 min

Lab File: VD080072.D

Acq: 18 Nov 2024 16:39

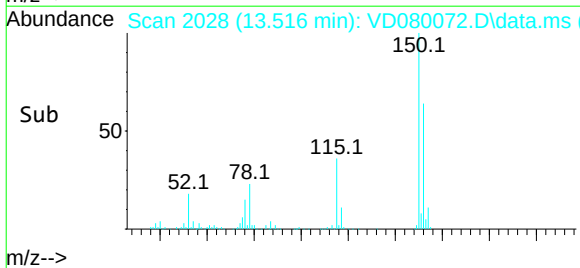
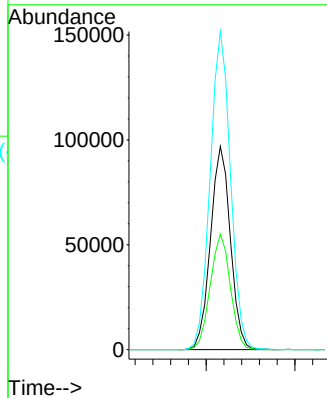
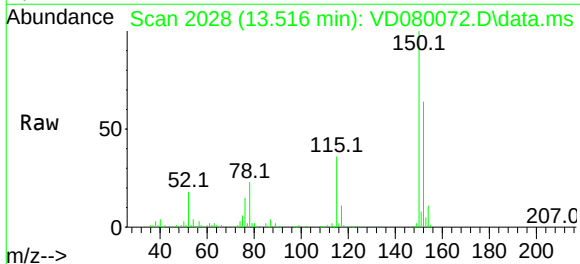
Tgt Ion:152 Resp: 150840

Ion Ratio Lower Upper

152 100

115 57.4 28.9 86.8

150 159.9 0.0 354.8



Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-001	SDG No.:	P4860
Lab Sample ID:	P4860-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	96.8
Sample Wt/Vol:	6.44 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080073.D	1		11/18/24 17:06	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	4.00	ug/Kg
74-87-3	Chloromethane	0.93	U	0.93	4.00	ug/Kg
75-01-4	Vinyl Chloride	0.62	U	0.62	4.00	ug/Kg
74-83-9	Bromomethane	0.83	U	0.83	4.00	ug/Kg
75-00-3	Chloroethane	0.81	U	0.81	4.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.73	U	0.73	4.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.86	U	0.86	4.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.63	U	0.63	4.00	ug/Kg
67-64-1	Acetone	5.00	U	5.00	20.1	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.54	U	0.54	4.00	ug/Kg
79-20-9	Methyl Acetate	4.00		1.40	4.00	ug/Kg
75-09-2	Methylene Chloride	2.70	U	2.70	8.00	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.67	U	0.67	4.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.51	U	0.51	4.00	ug/Kg
110-82-7	Cyclohexane	0.55	U	0.55	4.00	ug/Kg
78-93-3	2-Butanone	4.60	U	4.60	20.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.70	U	0.70	4.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.49	U	0.49	4.00	ug/Kg
74-97-5	Bromochloromethane	1.90	U	1.90	4.00	ug/Kg
67-66-3	Chloroform	0.54	U	0.54	4.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	4.00	ug/Kg
108-87-2	Methylcyclohexane	0.70	U	0.70	4.00	ug/Kg
71-43-2	Benzene	0.58	U	0.58	4.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.49	U	0.49	4.00	ug/Kg
79-01-6	Trichloroethene	0.60	U	0.60	4.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.53	U	0.53	4.00	ug/Kg
75-27-4	Bromodichloromethane	0.45	U	0.45	4.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.50	U	3.50	20.1	ug/Kg
108-88-3	Toluene	0.54	U	0.54	4.00	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-001	SDG No.:	P4860
Lab Sample ID:	P4860-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	96.8
Sample Wt/Vol:	6.44	Units: g	Final Vol: 5000 uL
Soil Aliquot Vol:		uL	Test: VOC-TCLVOA-10
GC Column:	RTX-VMS	ID : 0.18	Level : LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080073.D	1		11/18/24 17:06	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.48	U	0.48	4.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.46	U	0.46	4.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.67	U	0.67	4.00	ug/Kg
591-78-6	2-Hexanone	3.80	U	3.80	20.1	ug/Kg
124-48-1	Dibromochloromethane	0.52	U	0.52	4.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.63	U	0.63	4.00	ug/Kg
127-18-4	Tetrachloroethene	0.71	U	0.71	4.00	ug/Kg
108-90-7	Chlorobenzene	0.59	U	0.59	4.00	ug/Kg
100-41-4	Ethyl Benzene	0.50	U	0.50	4.00	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.00	ug/Kg
95-47-6	o-Xylene	0.56	U	0.56	4.00	ug/Kg
100-42-5	Styrene	0.48	U	0.48	4.00	ug/Kg
75-25-2	Bromoform	0.65	U	0.65	4.00	ug/Kg
98-82-8	Isopropylbenzene	0.54	U	0.54	4.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.88	U	0.88	4.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.59	U	0.59	4.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.64	U	0.64	4.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.47	U	0.47	4.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.63	U	0.63	4.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.63	U	0.63	4.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.2		70 (50) - 130 (163)	86%	SPK: 50
1868-53-7	Dibromofluoromethane	42.1		70 (54) - 130 (147)	84%	SPK: 50
2037-26-5	Toluene-d8	39.5		70 (58) - 130 (134)	79%	SPK: 50
460-00-4	4-Bromofluorobenzene	35.7		70 (29) - 130 (146)	71%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	219000	7.875			
540-36-3	1,4-Difluorobenzene	366000	8.775			
3114-55-4	Chlorobenzene-d5	329000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	146000	13.516			

Report of Analysis

Client:	Tetra Tech		Date Collected:	11/14/24	
Project:	Ocean County Landfill 2024		Date Received:	11/14/24	
Client Sample ID:	PH2-BOT-001		SDG No.:	P4860	
Lab Sample ID:	P4860-02		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	96.8	
Sample Wt/Vol:	6.44	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RTX-VMS	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080073.D	1		11/18/24 17:06	VD111824

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_D\Data\VD111824\
Data File : VD080073.D
Acq On : 18 Nov 2024 17:06
Operator : RP/MD
Sample : P4860-02
Misc : 6.44G/5ml/MSVOA_D/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
PH2-BOT-001

Quant Time: Nov 19 04:49:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

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

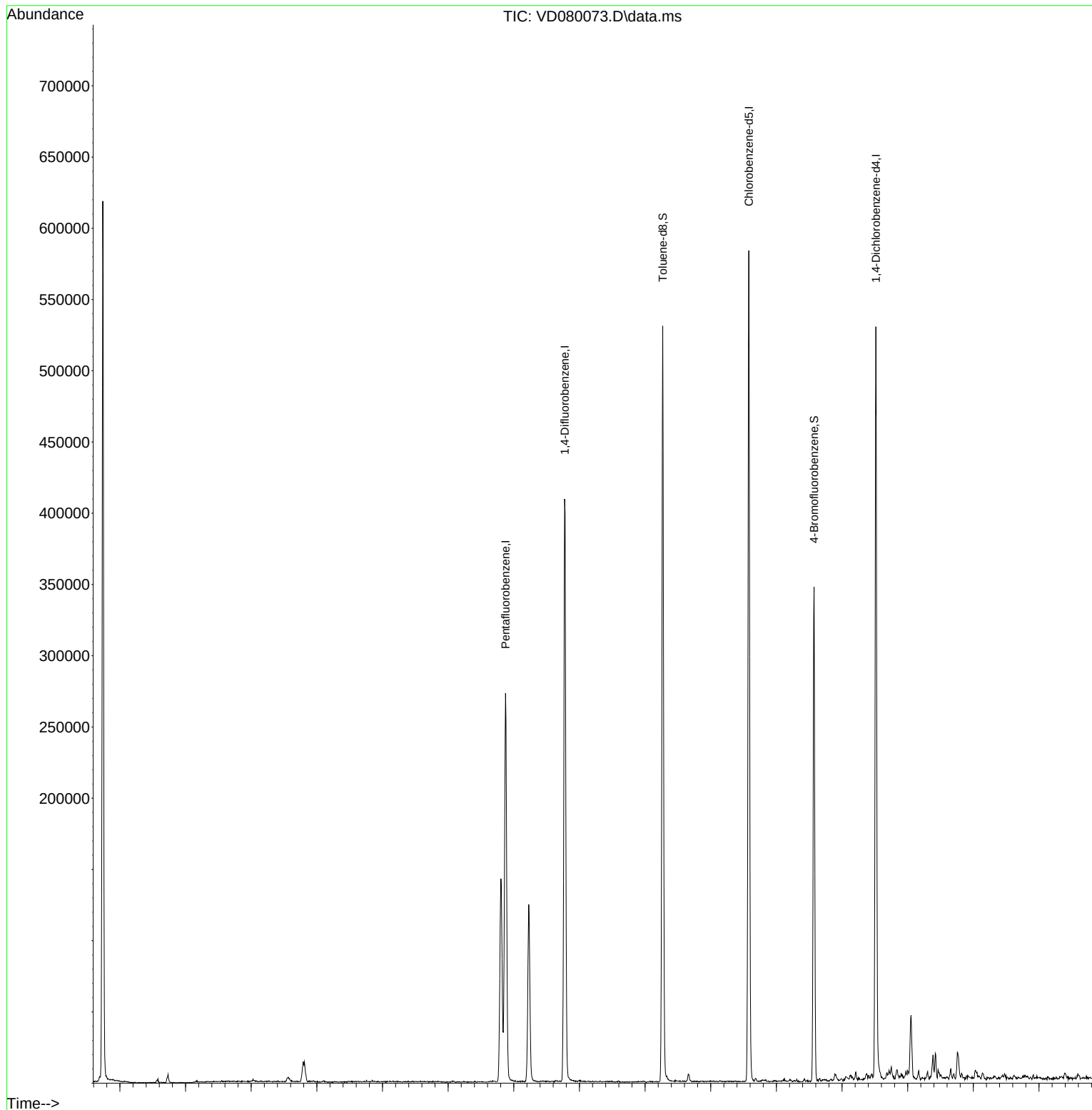
Internal Standards						
1) Pentafluorobenzene	7.875	168	219259	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	366320	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	329102	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	146457	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	97508	43.193	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	86.380%
35) Dibromofluoromethane	7.804	113	102655	42.107	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	84.220%
50) Toluene-d8	10.269	98	362809	39.484	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	78.960%
62) 4-Bromofluorobenzene	12.575	95	107667	35.714	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	71.420%
Target Compounds						
18) Methyl Acetate	4.569	43	5483	5.047	ug/l	Qvalue 98

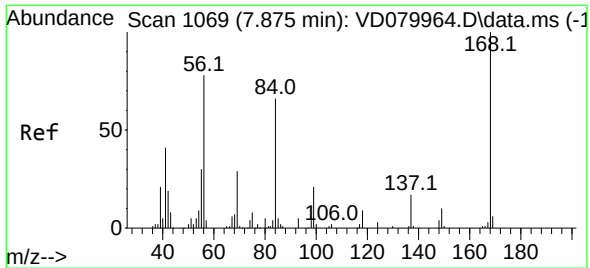
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080073.D
Acq On : 18 Nov 2024 17:06
Operator : RP/MD
Sample : P4860-02
Misc : 6.44G/5ml/MSVOA_D/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
PH2-BOT-001

Quant Time: Nov 19 04:49:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

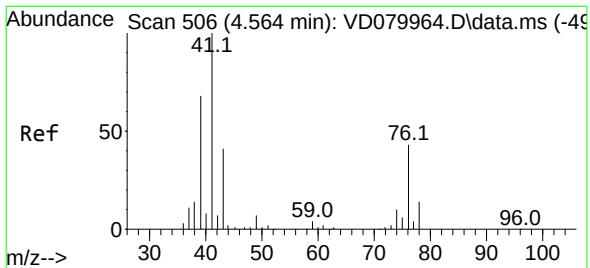
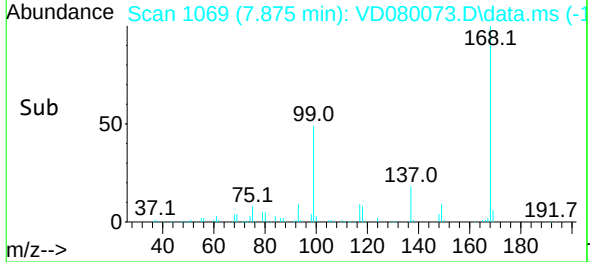
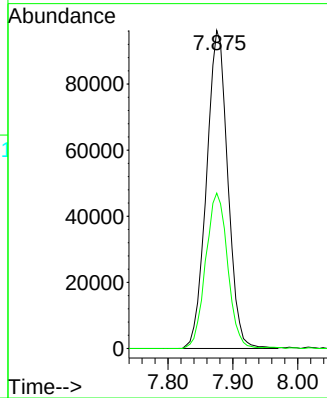
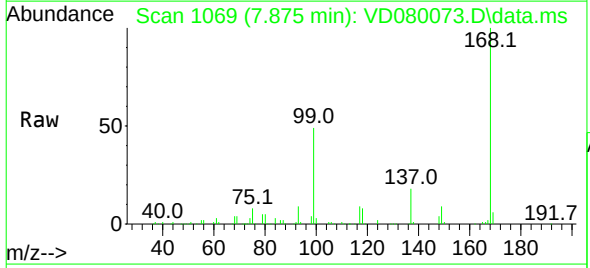




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD080073.D
Acq: 18 Nov 2024 17:06

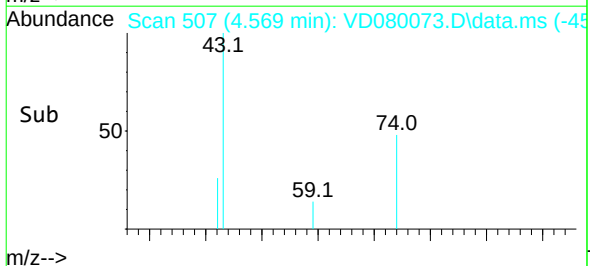
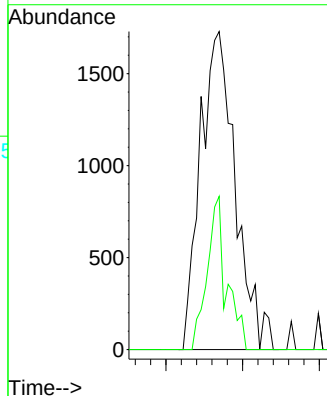
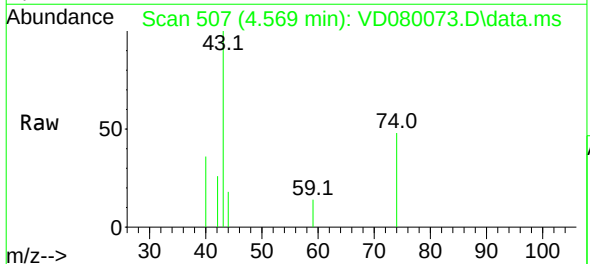
Instrument :
MSVOA_D
ClientSampleId :
PH2-BOT-001

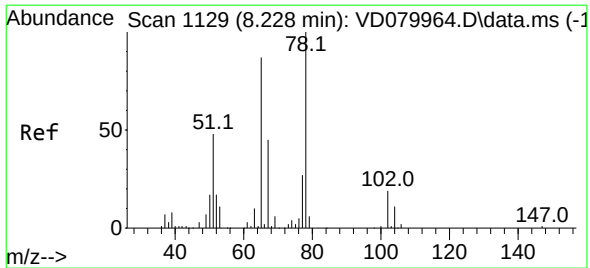
Tgt Ion: 168 Resp: 219259
Ion Ratio Lower Upper
168 100
99 48.9 46.0 69.0



#18
Methyl Acetate
Concen: 5.047 ug/l
RT: 4.569 min Scan# 507
Delta R.T. 0.005 min
Lab File: VD080073.D
Acq: 18 Nov 2024 17:06

Tgt Ion: 43 Resp: 5483
Ion Ratio Lower Upper
43 100
74 26.4 20.5 30.7

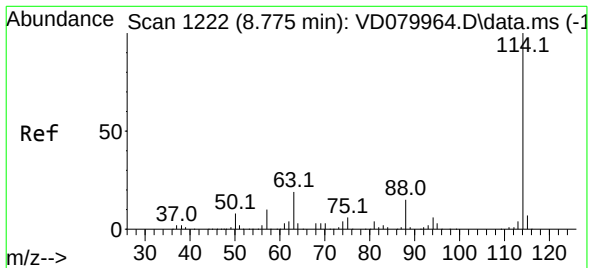
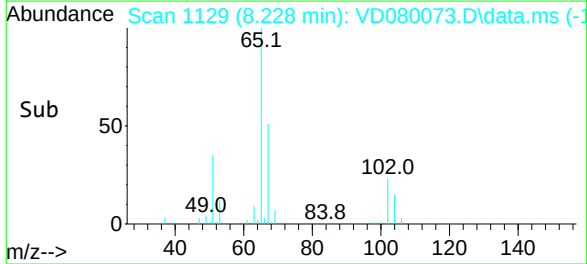
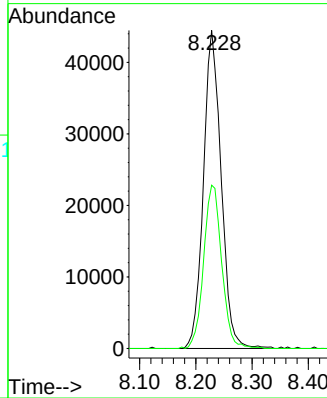
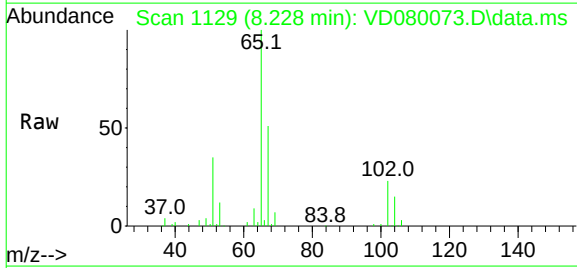




#33
1,2-Dichloroethane-d4
Concen: 43.193 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VD080073.D
Acq: 18 Nov 2024 17:06

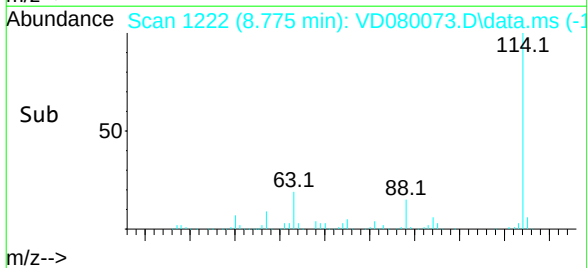
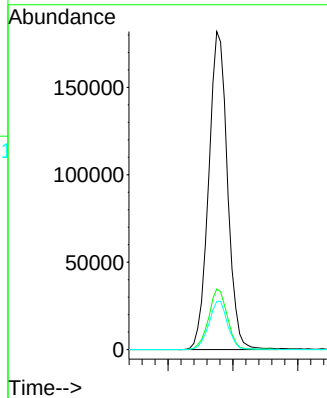
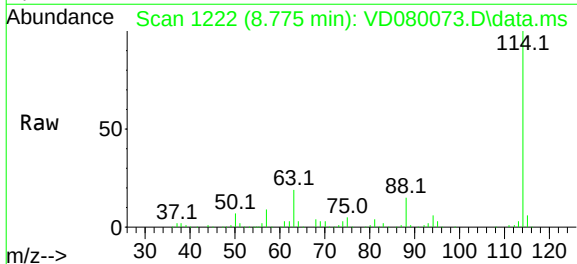
Instrument :
MSVOA_D
ClientSampleId :
PH2-BOT-001

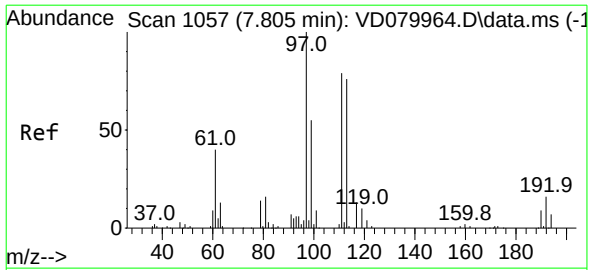
Tgt Ion: 65 Resp: 97508
Ion Ratio Lower Upper
65 100
67 52.5 0.0 109.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.775 min Scan# 1222
Delta R.T. 0.000 min
Lab File: VD080073.D
Acq: 18 Nov 2024 17:06

Tgt Ion: 114 Resp: 366320
Ion Ratio Lower Upper
114 100
63 19.1 0.0 38.8
88 15.1 0.0 30.6





#35

Dibromofluoromethane

Concen: 42.107 ug/l

RT: 7.804 min Scan# 10

Delta R.T. -0.001 min

Lab File: VD080073.D

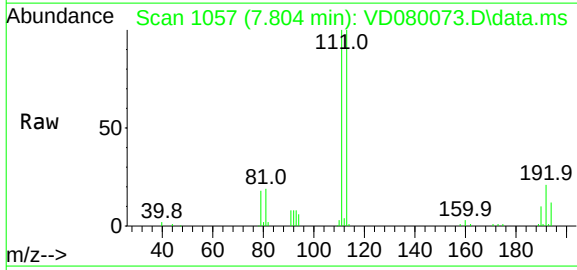
Acq: 18 Nov 2024 17:06

Instrument :

MSVOA_D

ClientSampleId :

PH2-BOT-001



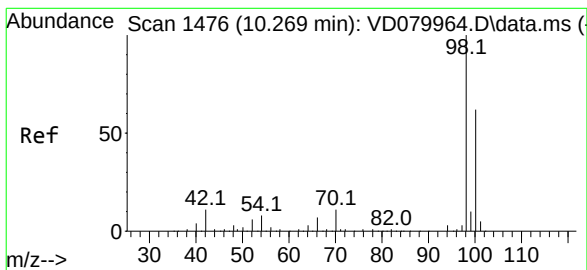
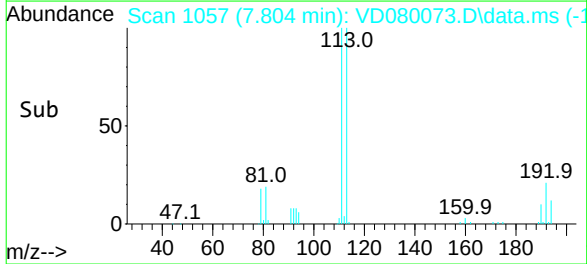
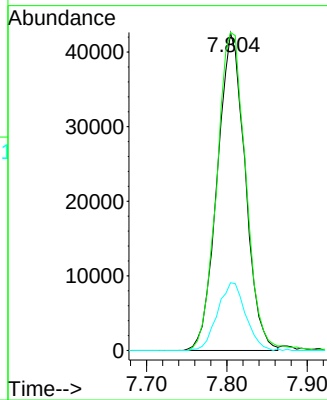
Tgt Ion:113 Resp: 102655

Ion Ratio Lower Upper

113 100

111 104.4 82.5 123.7

192 21.6 16.6 25.0



#50

Toluene-d8

Concen: 39.484 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD080073.D

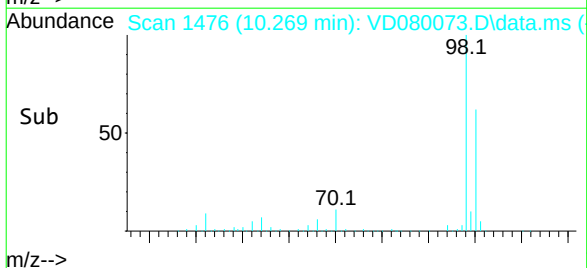
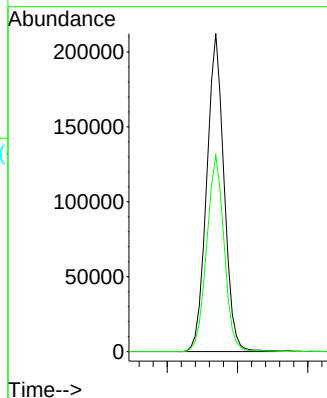
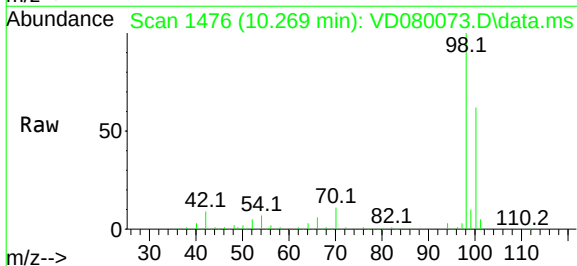
Acq: 18 Nov 2024 17:06

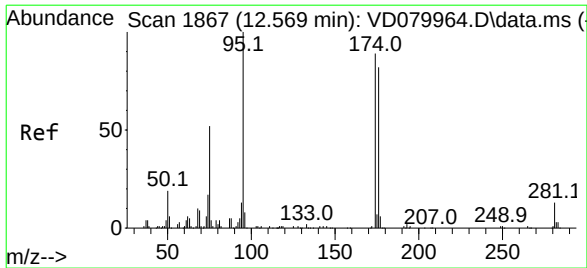
Tgt Ion: 98 Resp: 362809

Ion Ratio Lower Upper

98 100

100 62.2 50.2 75.4





#62

4-Bromofluorobenzene

Concen: 35.714 ug/l

RT: 12.575 min Scan# 18

Delta R.T. 0.006 min

Lab File: VD080073.D

Acq: 18 Nov 2024 17:06

Instrument :

MSVOA_D

ClientSampleId :

PH2-BOT-001

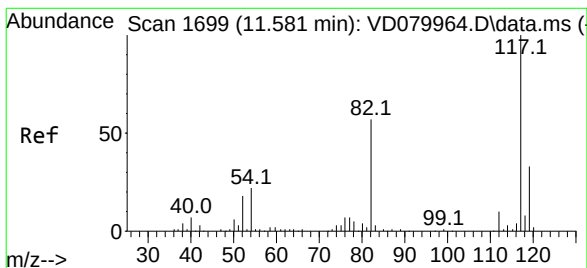
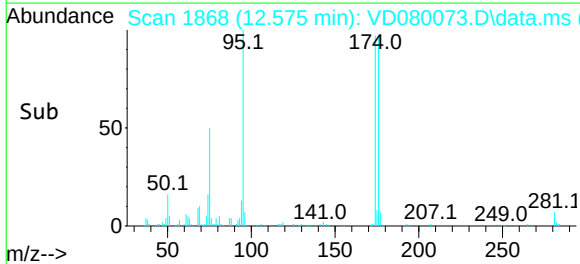
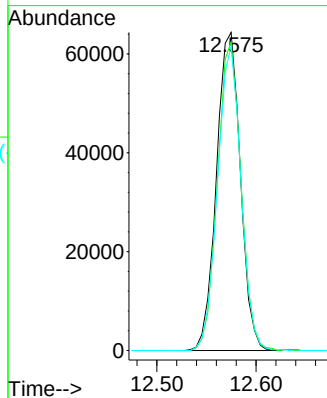
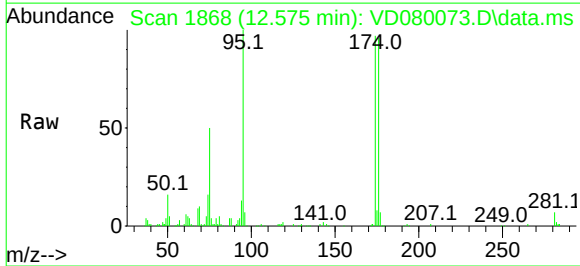
Tgt Ion: 95 Resp: 107667

Ion Ratio Lower Upper

95 100

174 95.6 0.0 173.4

176 93.6 0.0 166.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.581 min Scan# 1699

Delta R.T. -0.000 min

Lab File: VD080073.D

Acq: 18 Nov 2024 17:06

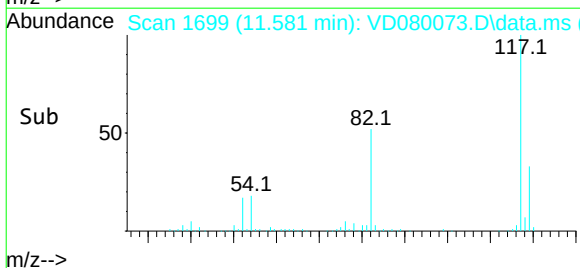
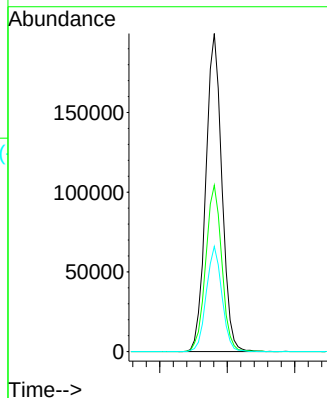
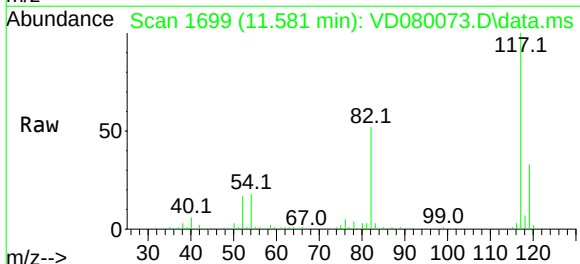
Tgt Ion: 117 Resp: 329102

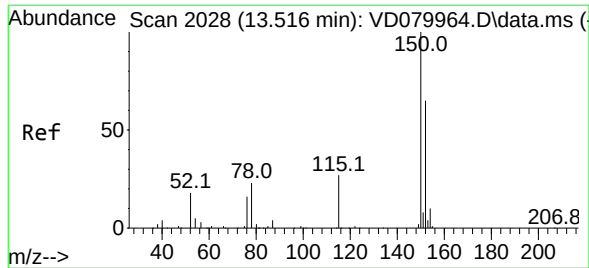
Ion Ratio Lower Upper

117 100

82 52.3 45.8 68.6

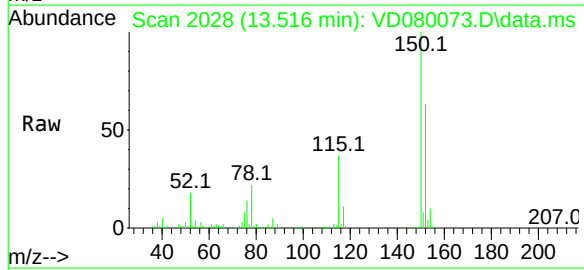
119 33.1 26.2 39.2



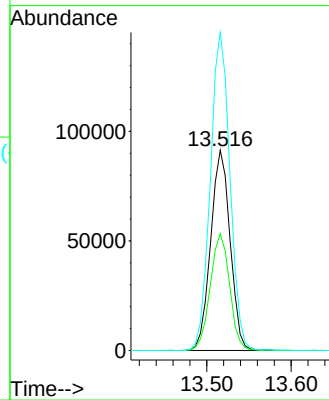
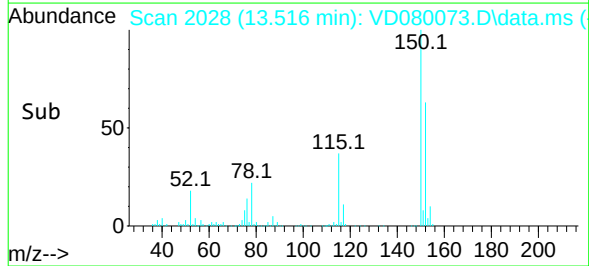


1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 20
Delta R.T. -0.000 min
Lab File: VD080073.D
Acq: 18 Nov 2024 17:06

Instrument :
MSVOA_D
ClientSampleId :
PH2-BOT-001



Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.1	28.9	86.8
150	160.2	0.0	354.8



Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-002	SDG No.:	P4860
Lab Sample ID:	P4860-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	96.6
Sample Wt/Vol:	6.2	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020368.D	1		11/20/24 18:35	VY112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	4.20	ug/Kg
74-87-3	Chloromethane	0.97	U	0.97	4.20	ug/Kg
75-01-4	Vinyl Chloride	0.64	U	0.64	4.20	ug/Kg
74-83-9	Bromomethane	0.86	U	0.86	4.20	ug/Kg
75-00-3	Chloroethane	0.84	U	0.84	4.20	ug/Kg
75-69-4	Trichlorofluoromethane	0.76	U	0.76	4.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.89	U	0.89	4.20	ug/Kg
75-35-4	1,1-Dichloroethene	0.65	U	0.65	4.20	ug/Kg
67-64-1	Acetone	5.20	U	5.20	20.9	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	4.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.56	U	0.56	4.20	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.20	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	8.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.70	U	0.70	4.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.53	U	0.53	4.20	ug/Kg
110-82-7	Cyclohexane	0.58	U	0.58	4.20	ug/Kg
78-93-3	2-Butanone	4.70	U	4.70	20.9	ug/Kg
56-23-5	Carbon Tetrachloride	0.73	U	0.73	4.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.51	U	0.51	4.20	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	4.20	ug/Kg
67-66-3	Chloroform	0.56	U	0.56	4.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.65	U	0.65	4.20	ug/Kg
108-87-2	Methylcyclohexane	0.73	U	0.73	4.20	ug/Kg
71-43-2	Benzene	0.60	U	0.60	4.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.51	U	0.51	4.20	ug/Kg
79-01-6	Trichloroethene	0.63	U	0.63	4.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.55	U	0.55	4.20	ug/Kg
75-27-4	Bromodichloromethane	0.47	U	0.47	4.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	20.9	ug/Kg
108-88-3	Toluene	0.56	U	0.56	4.20	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-002	SDG No.:	P4860
Lab Sample ID:	P4860-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	96.6
Sample Wt/Vol:	6.2	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
VY020368.D	1		11/20/24 18:35	VY112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.50	4.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.48	U	0.48	4.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.70	U	0.70	4.20	ug/Kg
591-78-6	2-Hexanone	4.00	U	4.00	20.9	ug/Kg
124-48-1	Dibromochloromethane	0.54	U	0.54	4.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.66	U	0.66	4.20	ug/Kg
127-18-4	Tetrachloroethene	0.74	U	0.74	4.20	ug/Kg
108-90-7	Chlorobenzene	0.62	U	0.62	4.20	ug/Kg
100-41-4	Ethyl Benzene	0.52	U	0.52	4.20	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.30	ug/Kg
95-47-6	o-Xylene	0.58	U	0.58	4.20	ug/Kg
100-42-5	Styrene	0.50	U	0.50	4.20	ug/Kg
75-25-2	Bromoform	0.68	U	0.68	4.20	ug/Kg
98-82-8	Isopropylbenzene	0.56	U	0.56	4.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.92	U	0.92	4.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.62	U	0.62	4.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.67	U	0.67	4.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.49	U	0.49	4.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.66	U	0.66	4.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.65	U	0.65	4.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.6		70 (50) - 130 (163)	117%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	49.0		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		70 (29) - 130 (146)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	138000	7.713			
540-36-3	1,4-Difluorobenzene	270000	8.616			
3114-55-4	Chlorobenzene-d5	257000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	102000	13.347			

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-002	SDG No.:	P4860
Lab Sample ID:	P4860-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	96.6
Sample Wt/Vol:	6.2	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10
GC Column:	RXI-624	Level :	LOW
Prep Method :	ID : 0.25		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020368.D	1		11/20/24 18:35	VY112024

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\VY112024\
Data File : VY020368.D
Acq On : 20 Nov 2024 18:35
Operator : SY/MD
Sample : P4860-03
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-002

Quant Time: Nov 21 04:41:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	137679	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	269671	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	257307	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	102362	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	92673	58.588	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	117.180%
35) Dibromofluoromethane	7.634	113	86578	50.068	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.140%
50) Toluene-d8	10.109	98	333450	48.952	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.900%
62) 4-Bromofluorobenzene	12.408	95	113373	51.775	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	103.540%

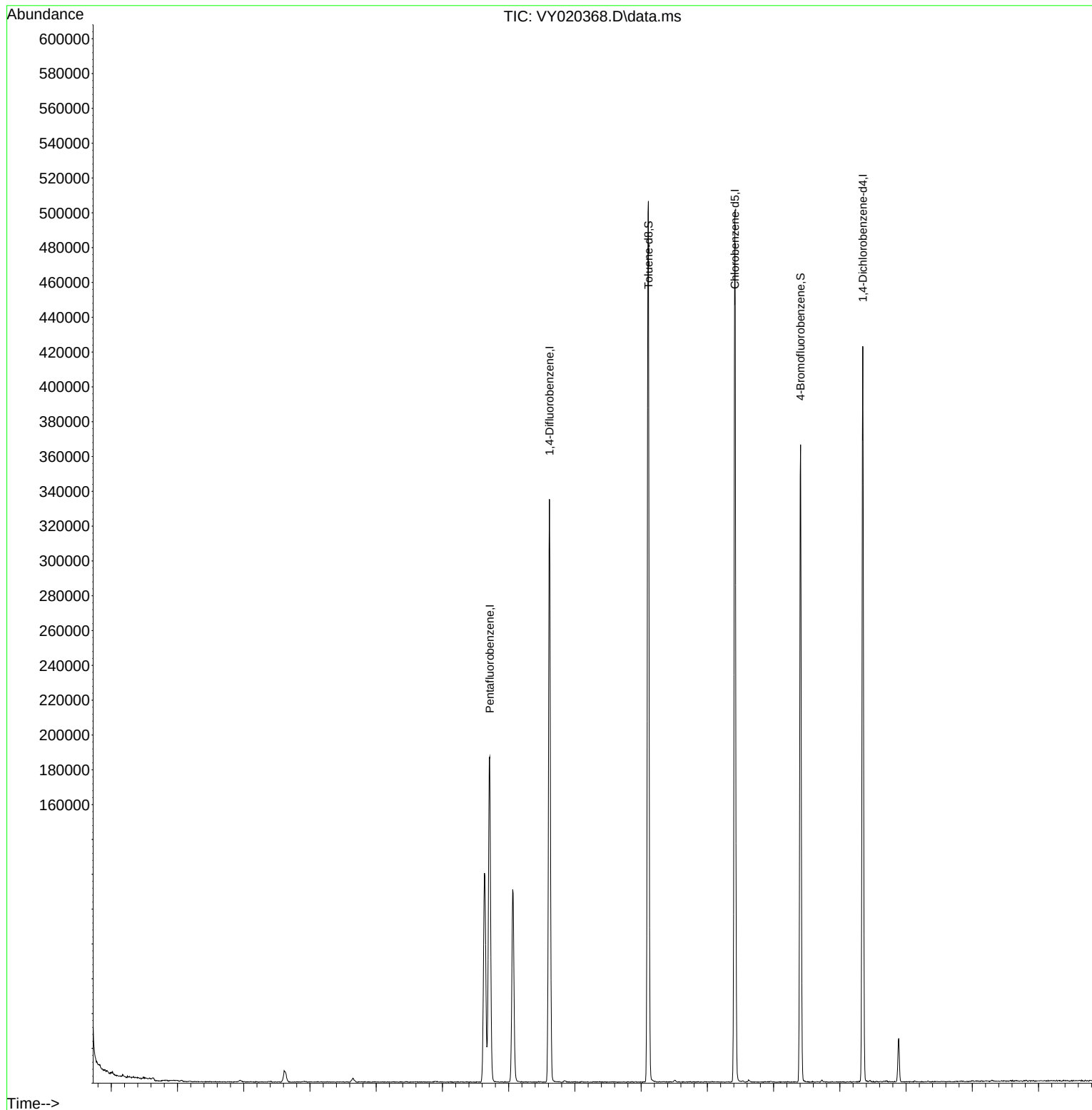
Target Compounds	Qvalue

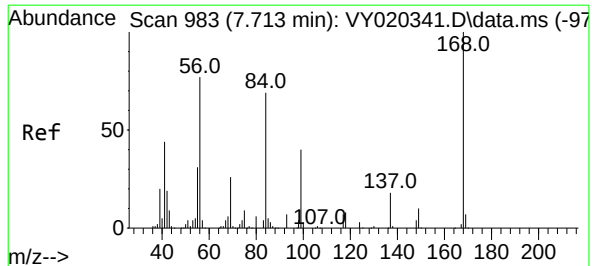
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020368.D
Acq On : 20 Nov 2024 18:35
Operator : SY/MD
Sample : P4860-03
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-002

Quant Time: Nov 21 04:41:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

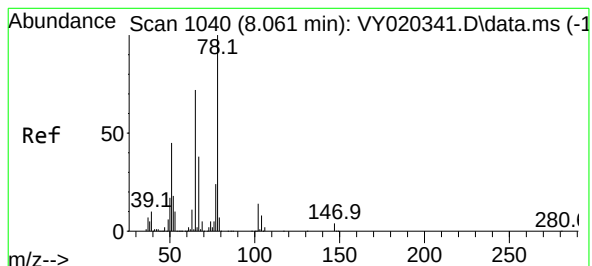
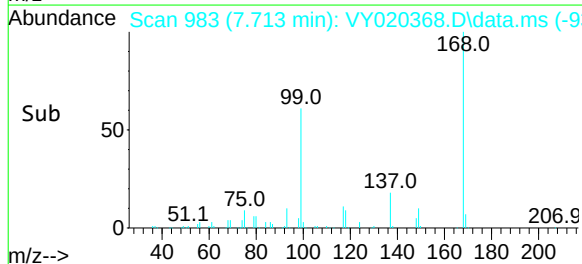
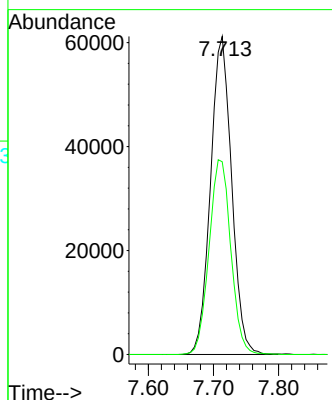
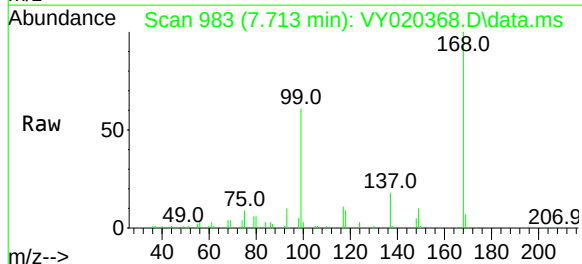




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY020368.D
Acq: 20 Nov 2024 18:35

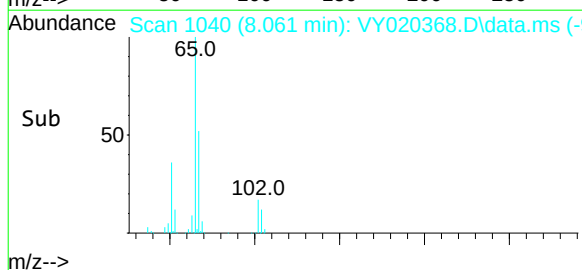
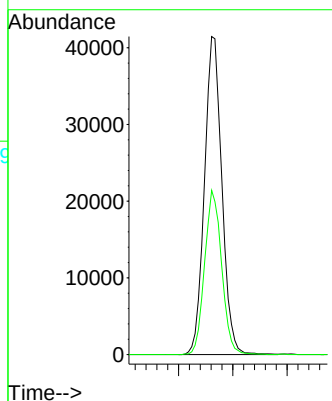
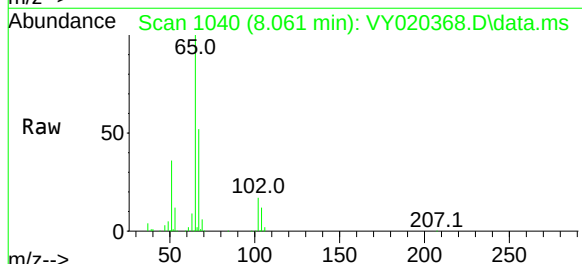
Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-002

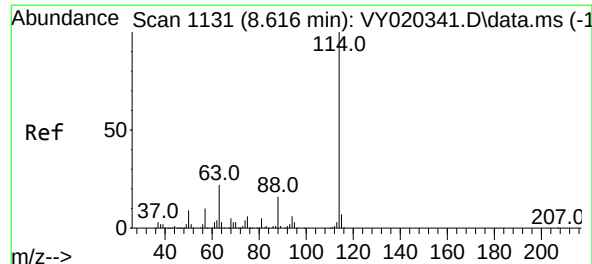
Tgt Ion:168 Resp: 137679
Ion Ratio Lower Upper
168 100
99 60.6 46.6 69.8



#33
1,2-Dichloroethane-d4
Concen: 58.588 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020368.D
Acq: 20 Nov 2024 18:35

Tgt Ion: 65 Resp: 92673
Ion Ratio Lower Upper
65 100
67 50.4 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY020368.D

Acq: 20 Nov 2024 18:35

Instrument :

MSVOA_Y

ClientSampleId :

PH2-BOT-002

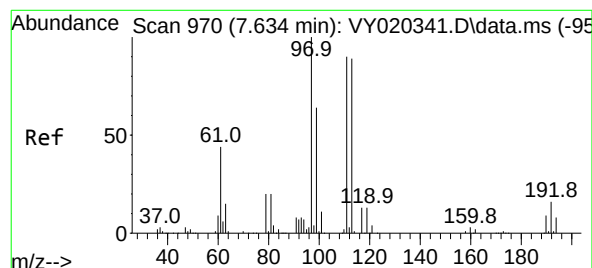
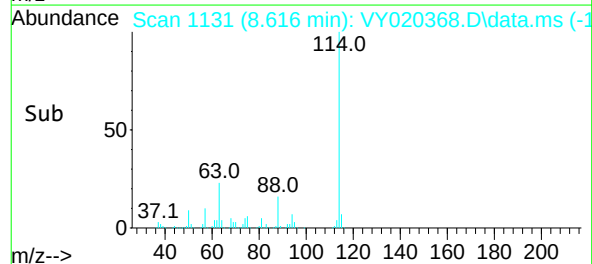
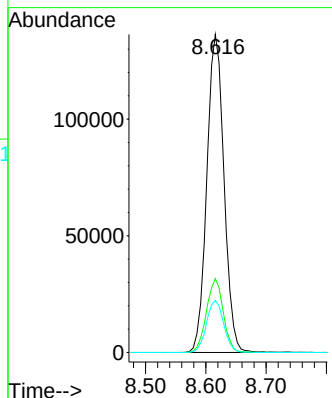
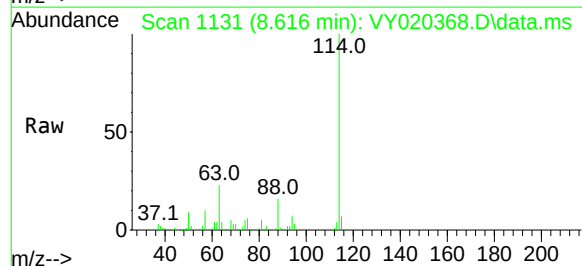
Tgt Ion:114 Resp: 269671

Ion Ratio Lower Upper

114 100

63 23.2 0.0 44.8

88 16.4 0.0 32.0



#35

Dibromofluoromethane

Concen: 50.068 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY020368.D

Acq: 20 Nov 2024 18:35

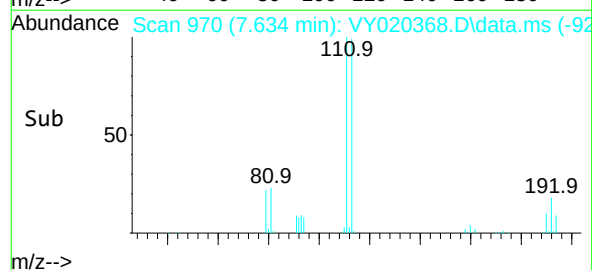
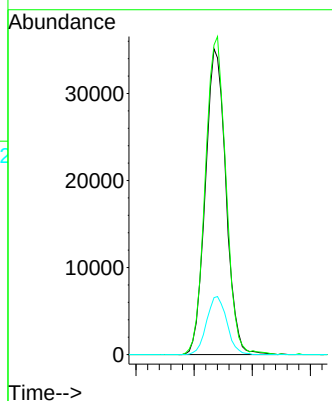
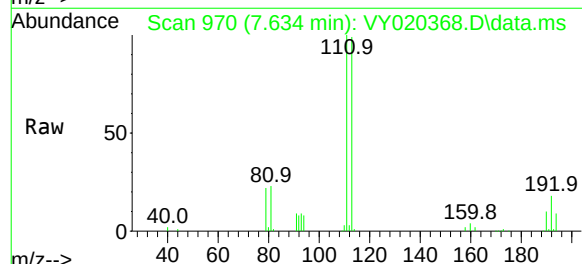
Tgt Ion:113 Resp: 86578

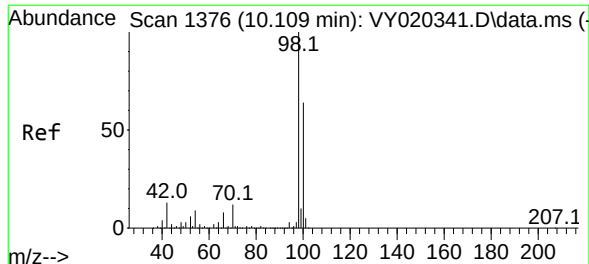
Ion Ratio Lower Upper

113 100

111 104.1 81.4 122.0

192 18.7 15.1 22.7





#50

Toluene-d8

Concen: 48.952 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY020368.D

Acq: 20 Nov 2024 18:35

Instrument :

MSVOA_Y

ClientSampleId :

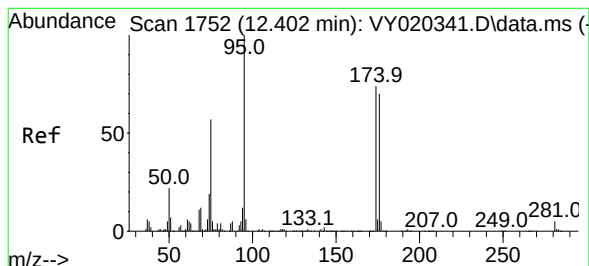
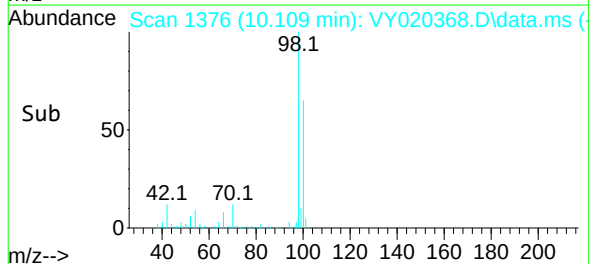
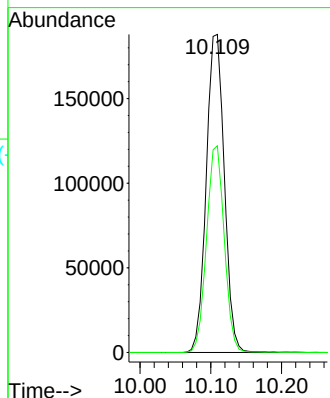
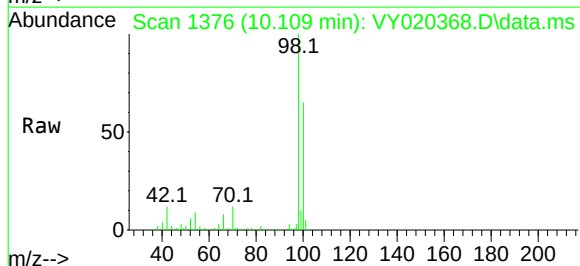
PH2-BOT-002

Tgt Ion: 98 Resp: 333450

Ion Ratio Lower Upper

98 100

100 63.9 51.3 76.9



#62

4-Bromofluorobenzene

Concen: 51.775 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VY020368.D

Acq: 20 Nov 2024 18:35

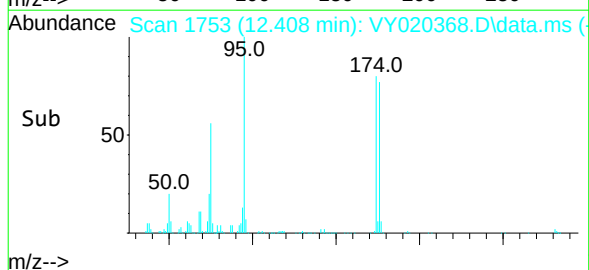
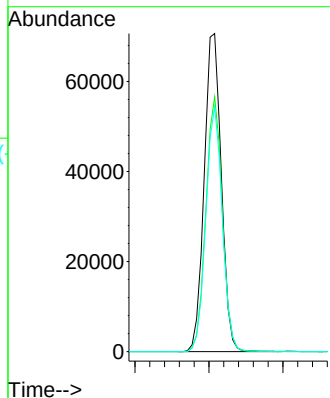
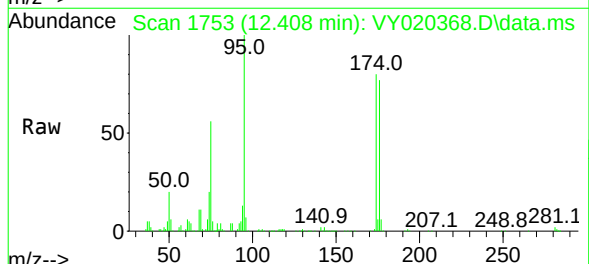
Tgt Ion: 95 Resp: 113373

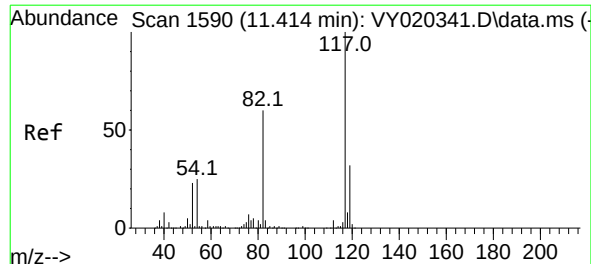
Ion Ratio Lower Upper

95 100

174 77.4 0.0 156.8

176 73.9 0.0 152.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY020368.D

Acq: 20 Nov 2024 18:35

Instrument :

MSVOA_Y

ClientSampleId :

PH2-BOT-002

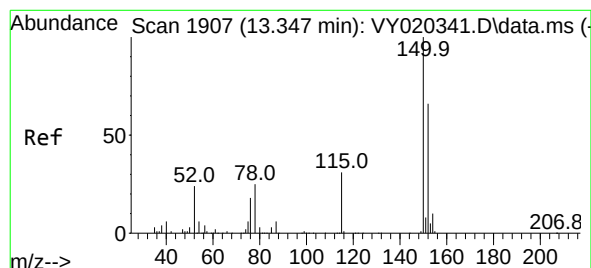
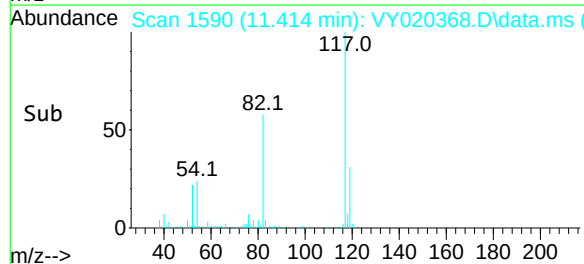
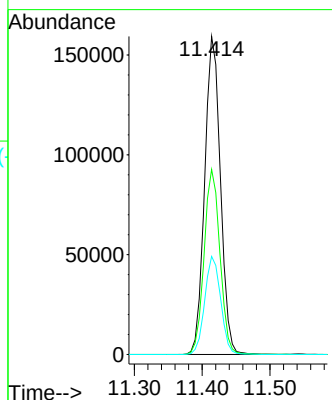
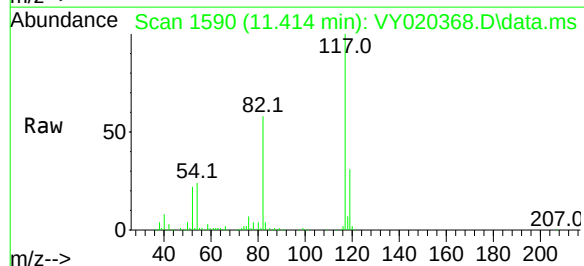
Tgt Ion:117 Resp: 257307

Ion Ratio Lower Upper

117 100

82 58.2 48.2 72.4

119 30.8 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY020368.D

Acq: 20 Nov 2024 18:35

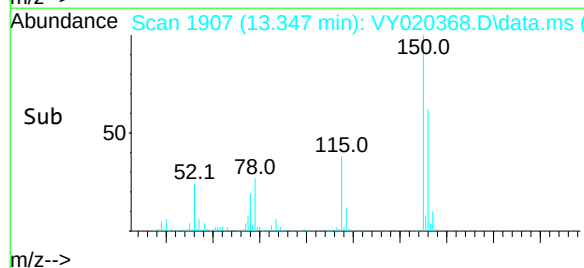
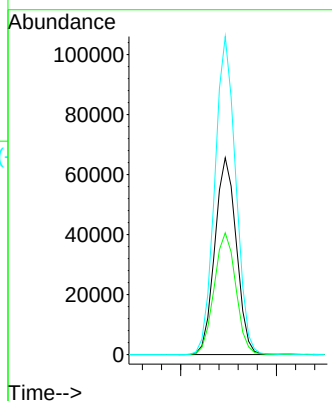
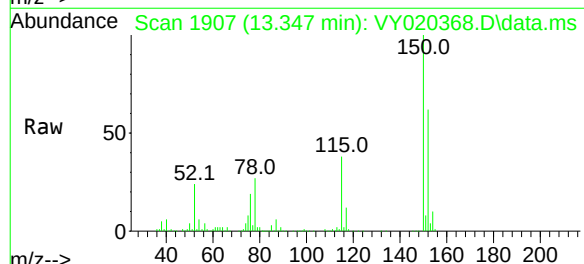
Tgt Ion:152 Resp: 102362

Ion Ratio Lower Upper

152 100

115 62.3 30.0 90.0

150 157.7 0.0 348.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020368.D
Acq On : 20 Nov 2024 18:35
Operator : SY/MD
Sample : P4860-03
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-002

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

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

Title : SW846 8260

Signal : TIC: VY020368.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	466	474	486	rBV3	6691	20495	2.29%	0.441%
2	7.634	961	970	976	rBV	120170	293680	32.75%	6.320%
3	7.713	976	983	995	rVB	186683	435313	48.54%	9.369%
4	8.061	1029	1040	1052	rBV	110715	247930	27.64%	5.336%
5	8.616	1121	1131	1143	rBV	334886	658606	73.43%	14.174%
6	10.109	1367	1376	1385	rBV	506047	896859	100.00%	19.302%
7	11.414	1582	1590	1604	rBV	500682	813729	90.73%	17.513%
8	12.408	1746	1753	1761	rBV	366039	582648	64.97%	12.540%
9	13.347	1899	1907	1916	rBV	422516	657084	73.27%	14.142%
10	13.889	1987	1996	2003	rBV2	25020	40146	4.48%	0.864%

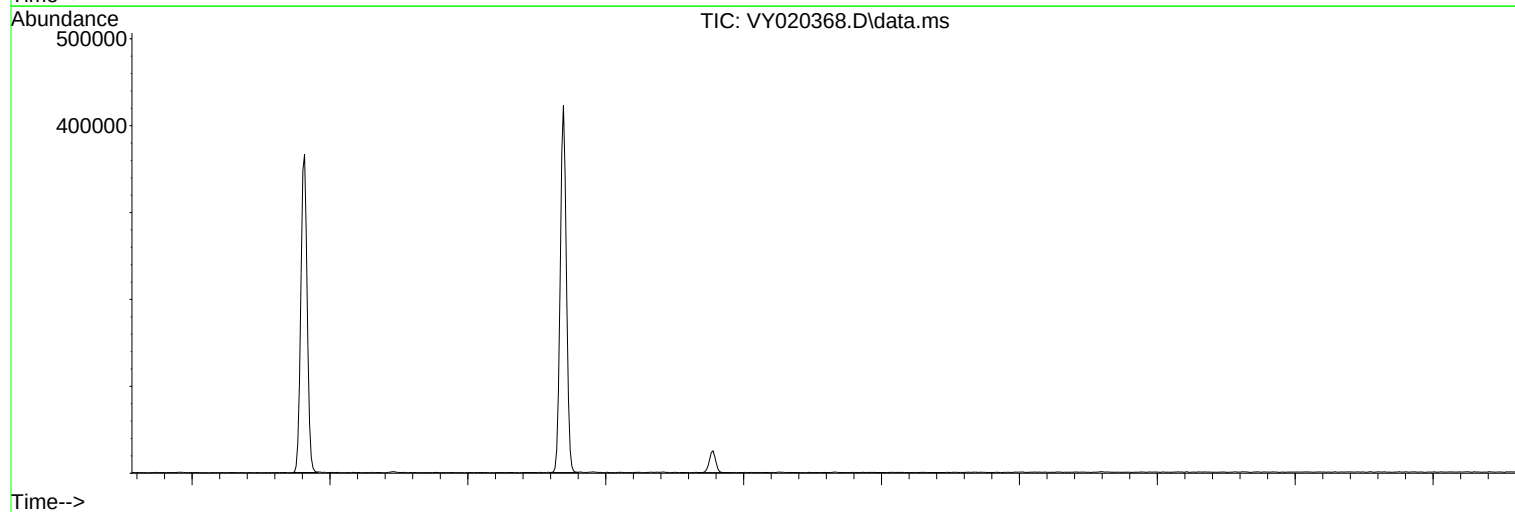
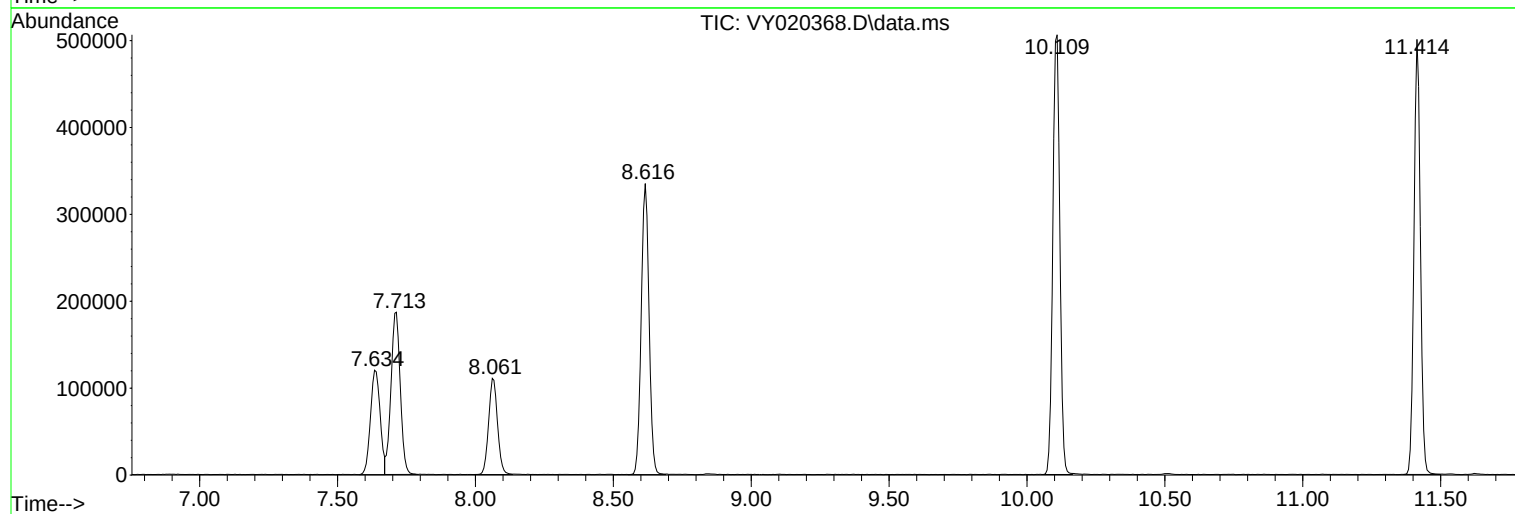
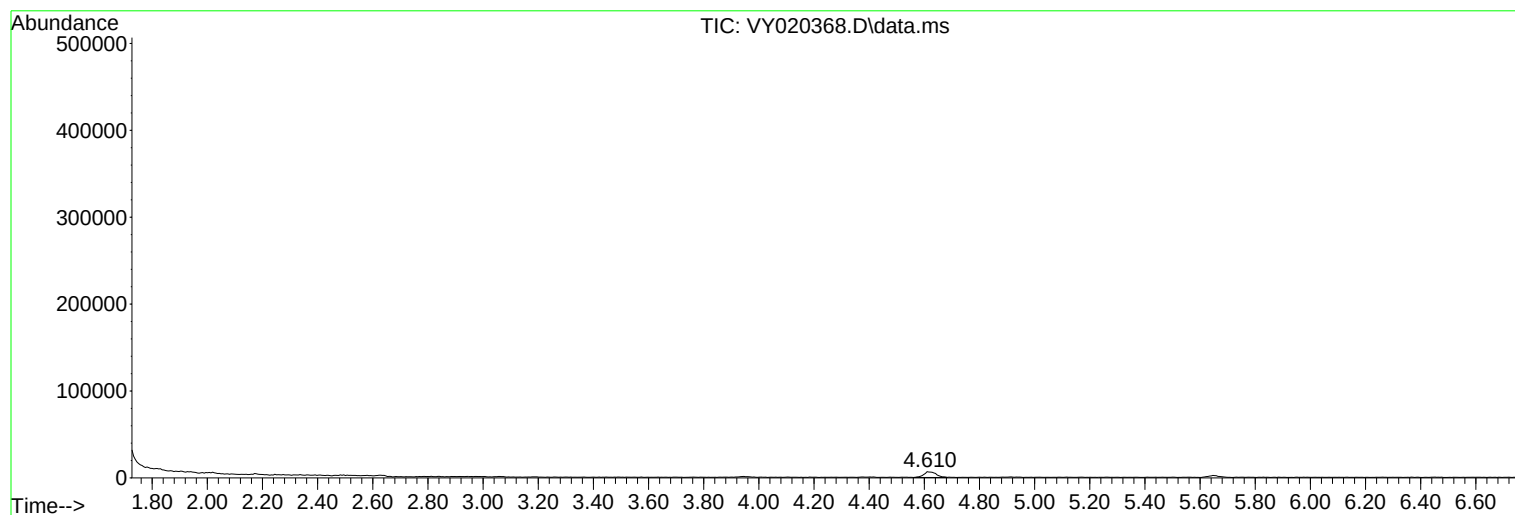
Sum of corrected areas: 4646490

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020368.D
Acq On : 20 Nov 2024 18:35
Operator : SY/MD
Sample : P4860-03
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-002

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020368.D
Acq On : 20 Nov 2024 18:35
Operator : SY/MD
Sample : P4860-03
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-002

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.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\VY112024\
Data File : VY020368.D
Acq On : 20 Nov 2024 18:35
Operator : SY/MD
Sample : P4860-03
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-002

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BPT-003	SDG No.:	P4860
Lab Sample ID:	P4860-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	97.8
Sample Wt/Vol:	6.28 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080075.D	1		11/18/24 18:00	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	4.10	ug/Kg
74-87-3	Chloromethane	0.94	U	0.94	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.63	U	0.63	4.10	ug/Kg
74-83-9	Bromomethane	0.84	U	0.84	4.10	ug/Kg
75-00-3	Chloroethane	0.82	U	0.82	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	0.74	U	0.74	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.87	U	0.87	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.63	U	0.63	4.10	ug/Kg
67-64-1	Acetone	5.10	U	5.10	20.4	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.55	U	0.55	4.10	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.10	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	8.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.68	U	0.68	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.51	U	0.51	4.10	ug/Kg
110-82-7	Cyclohexane	0.56	U	0.56	4.10	ug/Kg
78-93-3	2-Butanone	4.60	U	4.60	20.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.71	U	0.71	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	4.10	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	4.10	ug/Kg
67-66-3	Chloroform	0.55	U	0.55	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.71	U	0.71	4.10	ug/Kg
71-43-2	Benzene	0.59	U	0.59	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.50	U	0.50	4.10	ug/Kg
79-01-6	Trichloroethene	0.61	U	0.61	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.54	U	0.54	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.46	U	0.46	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.50	U	3.50	20.4	ug/Kg
108-88-3	Toluene	0.55	U	0.55	4.10	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BPT-003	SDG No.:	P4860
Lab Sample ID:	P4860-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	97.8
Sample Wt/Vol:	6.28 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080075.D	1		11/18/24 18:00	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.49	U	0.49	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.46	U	0.46	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	4.10	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	20.4	ug/Kg
124-48-1	Dibromochloromethane	0.53	U	0.53	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.64	U	0.64	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.72	U	0.72	4.10	ug/Kg
108-90-7	Chlorobenzene	0.60	U	0.60	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.50	U	0.50	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.10	ug/Kg
95-47-6	o-Xylene	0.57	U	0.57	4.10	ug/Kg
100-42-5	Styrene	0.49	U	0.49	4.10	ug/Kg
75-25-2	Bromoform	0.66	U	0.66	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.55	U	0.55	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.90	U	0.90	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.60	U	0.60	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.65	U	0.65	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.48	U	0.48	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.64	U	0.64	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.63	U	0.63	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	39.6		70 (50) - 130 (163)	79%	SPK: 50
1868-53-7	Dibromofluoromethane	38.4		70 (54) - 130 (147)	77%	SPK: 50
2037-26-5	Toluene-d8	34.1	*	70 (58) - 130 (134)	68%	SPK: 50
460-00-4	4-Bromofluorobenzene	30.7	*	70 (29) - 130 (146)	61%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	207000	7.875			
540-36-3	1,4-Difluorobenzene	368000	8.781			
3114-55-4	Chlorobenzene-d5	326000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.516			

Report of Analysis

Client:	Tetra Tech		Date Collected:	11/14/24	
Project:	Ocean County Landfill 2024		Date Received:	11/14/24	
Client Sample ID:	PH2-BPT-003		SDG No.:	P4860	
Lab Sample ID:	P4860-04		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	97.8	
Sample Wt/Vol:	6.28	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RTX-VMS	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080075.D	1		11/18/24 18:00	VD111824

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_D\Data\VD111824\
 Data File : VD080075.D
 Acq On : 18 Nov 2024 18:00
 Operator : RP/MD
 Sample : P4860-04
 Misc : 6.28G/5ml/MSVOA_D/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PH2-BPT-003

Quant Time: Nov 19 04:50:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	207332	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	367976	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	326426	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	150989	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	84545	39.605	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	79.220%
35) Dibromofluoromethane	7.804	113	94139	38.440	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	76.880%
50) Toluene-d8	10.269	98	314551	34.078	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	68.160%
62) 4-Bromofluorobenzene	12.575	95	92979	30.703	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	61.400%

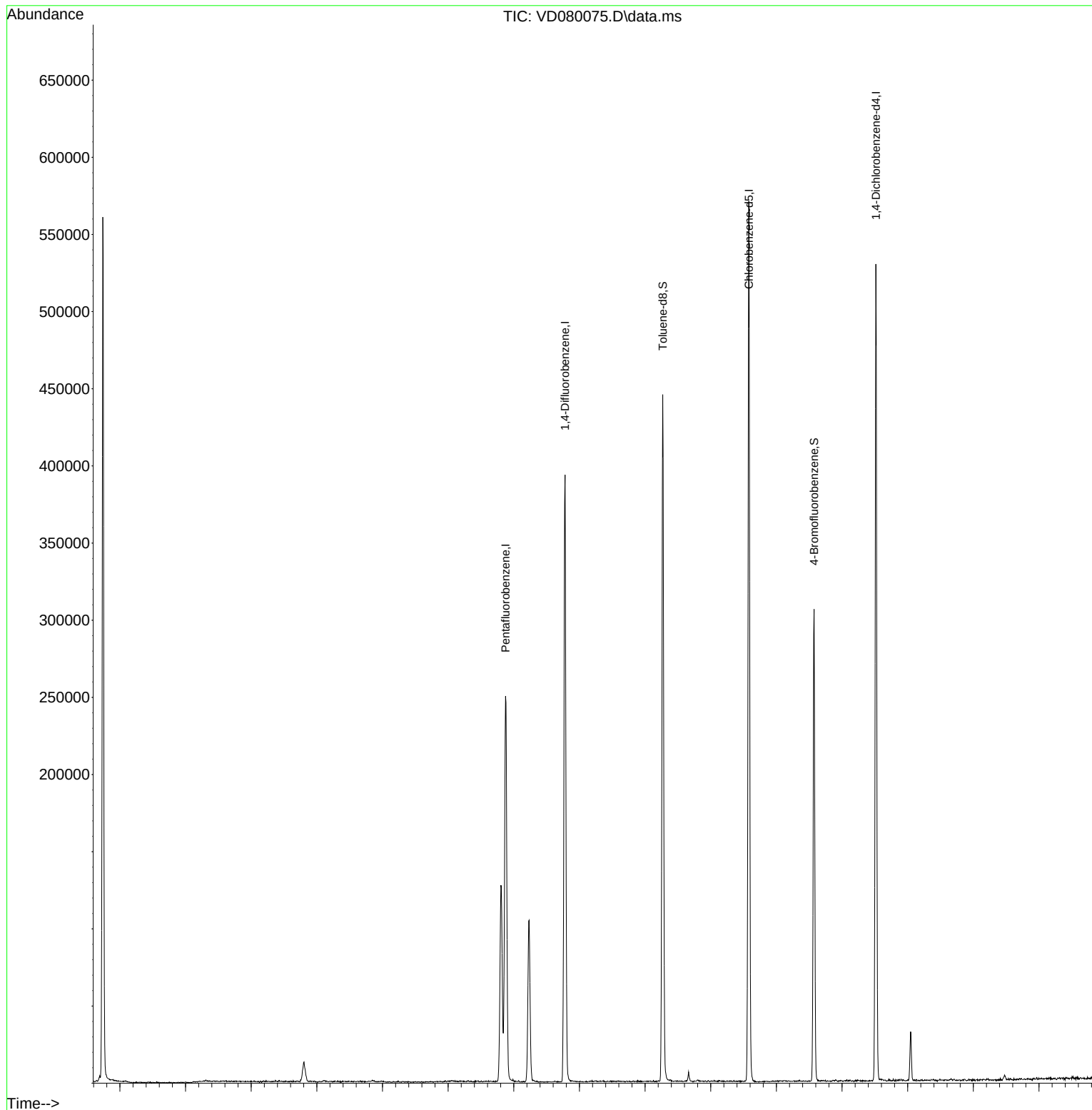
Target Compounds Qvalue

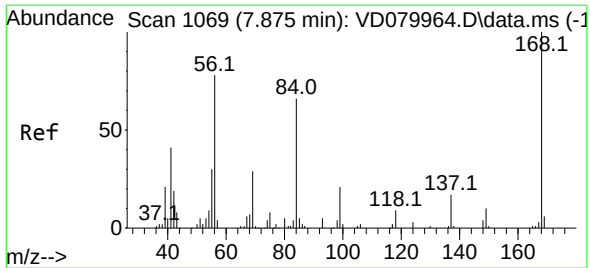
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080075.D
Acq On : 18 Nov 2024 18:00
Operator : RP/MD
Sample : P4860-04
Misc : 6.28G/5ml/MSVOA_D/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
PH2-BPT-003

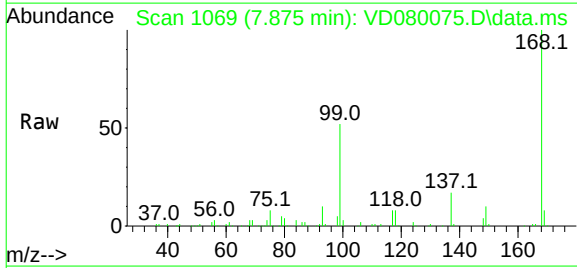
Quant Time: Nov 19 04:50:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



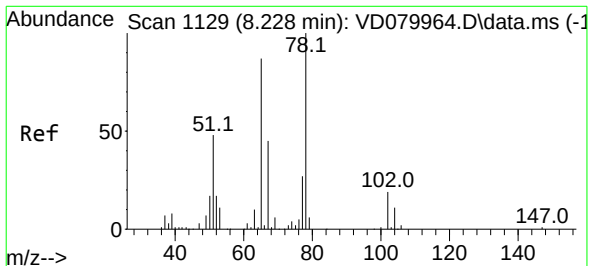
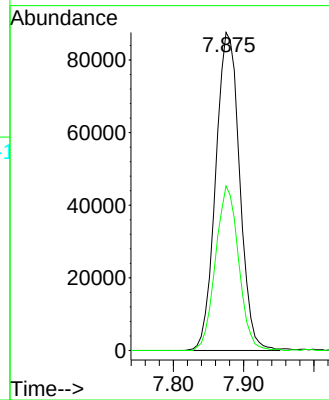
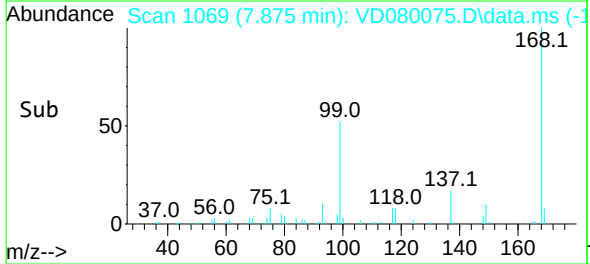


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.000 min
Lab File: VD080075.D
Acq: 18 Nov 2024 18:00

Instrument :
MSVOA_D
ClientSampleId :
PH2-BPT-003

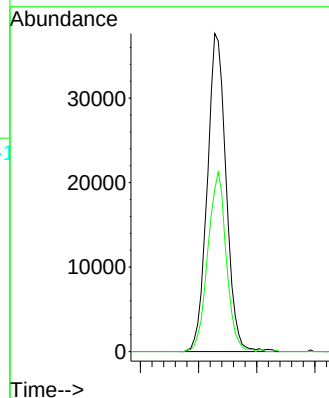
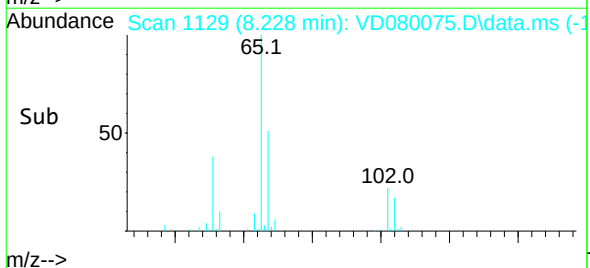
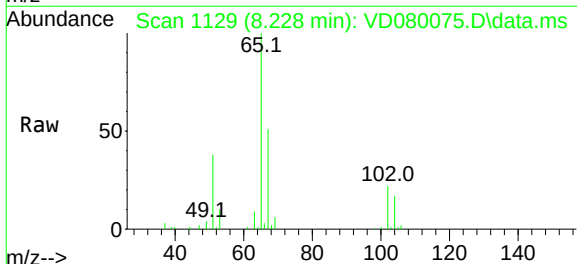


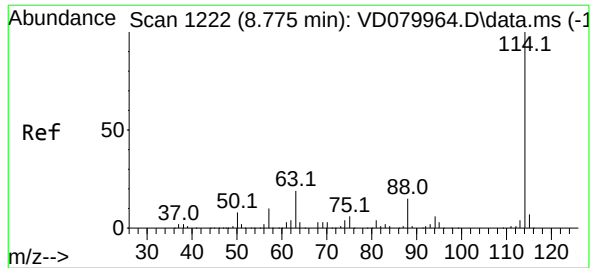
Tgt Ion:168 Resp: 207332
Ion Ratio Lower Upper
168 100
99 51.7 46.0 69.0



#33
1,2-Dichloroethane-d4
Concen: 39.605 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VD080075.D
Acq: 18 Nov 2024 18:00

Tgt Ion: 65 Resp: 84545
Ion Ratio Lower Upper
65 100
67 55.2 0.0 109.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 12

Delta R.T. 0.006 min

Lab File: VD080075.D

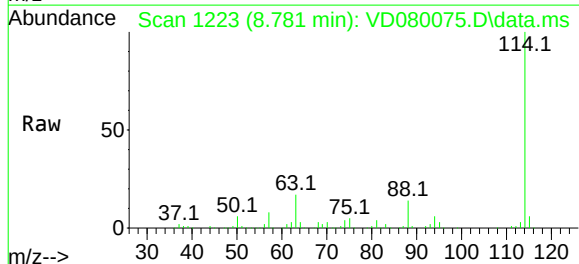
Acq: 18 Nov 2024 18:00

Instrument :

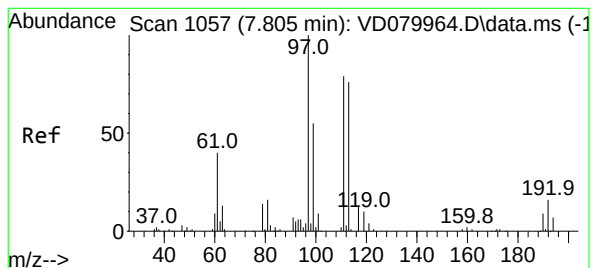
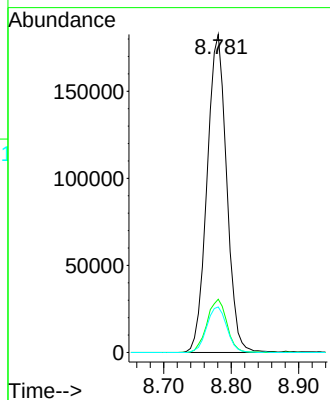
MSVOA_D

ClientSampleId :

PH2-BPT-003



Tgt Ion:	114	Resp:	367976
Ion	Ratio	Lower	Upper
114	100		
63	16.7	0.0	38.8
88	14.3	0.0	30.6



#35

Dibromofluoromethane

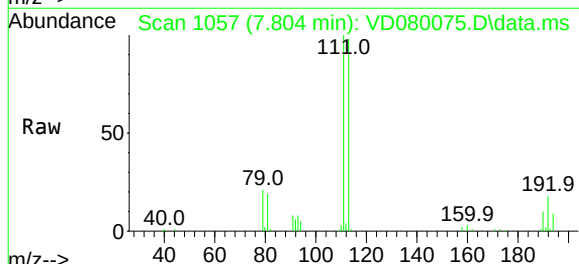
Concen: 38.440 ug/l

RT: 7.804 min Scan# 1057

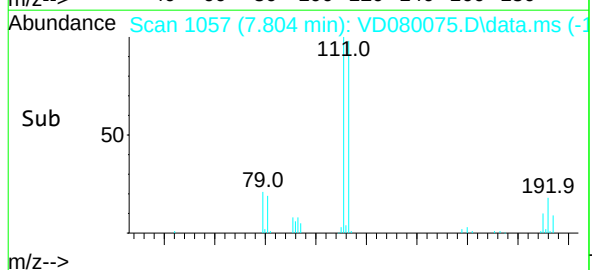
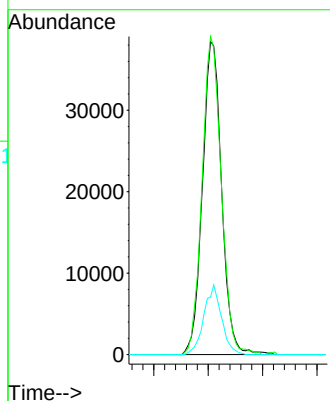
Delta R.T. -0.001 min

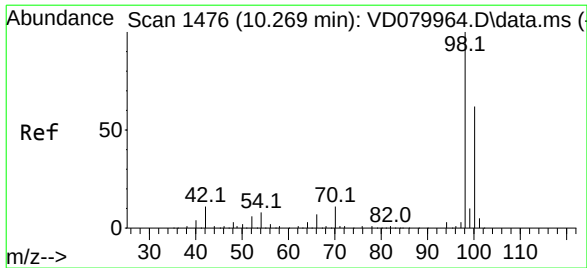
Lab File: VD080075.D

Acq: 18 Nov 2024 18:00



Tgt Ion:	113	Resp:	94139
Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.5	123.7
192	20.5	16.6	25.0





#50

Toluene-d8

Concen: 34.078 ug/l

RT: 10.269 min Scan# 14

Delta R.T. -0.000 min

Lab File: VD080075.D

Acq: 18 Nov 2024 18:00

Instrument :

MSVOA_D

ClientSampleId :

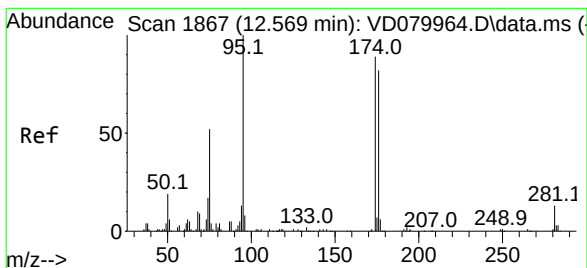
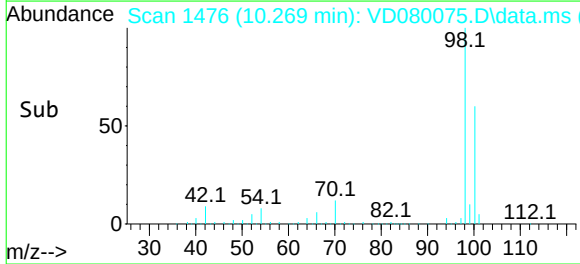
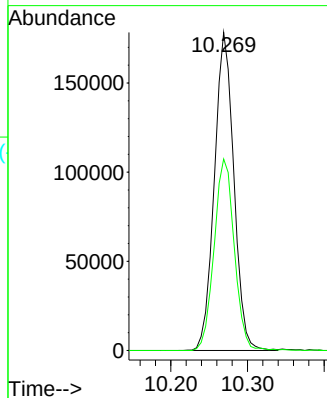
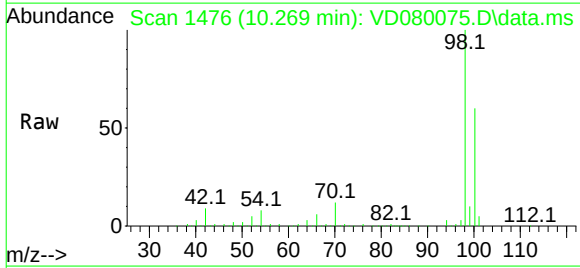
PH2-BPT-003

Tgt Ion: 98 Resp: 314551

Ion Ratio Lower Upper

98 100

100 62.5 50.2 75.4



#62

4-Bromofluorobenzene

Concen: 30.703 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. 0.006 min

Lab File: VD080075.D

Acq: 18 Nov 2024 18:00

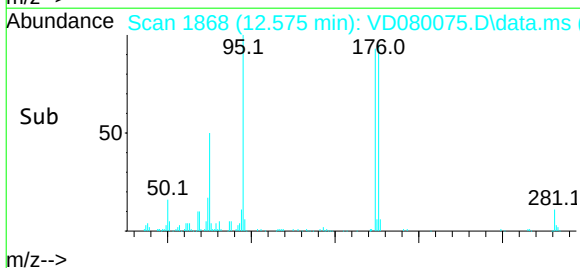
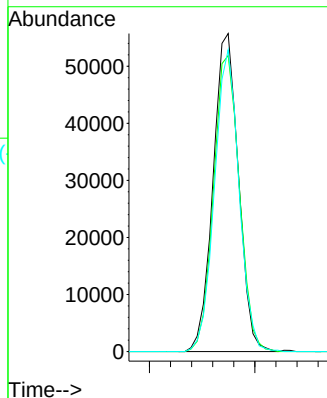
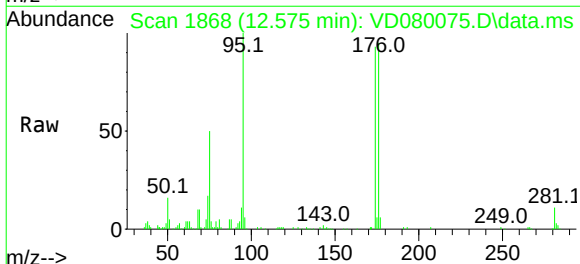
Tgt Ion: 95 Resp: 92979

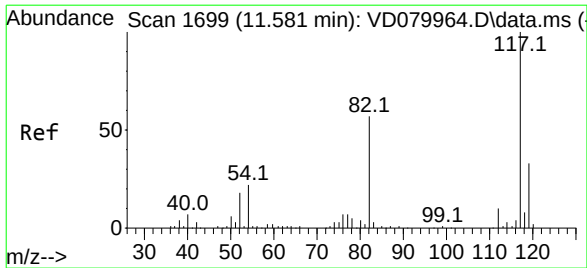
Ion Ratio Lower Upper

95 100

174 94.8 0.0 173.4

176 91.9 0.0 166.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.581 min Scan# 1699

Delta R.T. -0.000 min

Lab File: VD080075.D

Acq: 18 Nov 2024 18:00

Instrument :

MSVOA_D

ClientSampleId :

PH2-BPT-003

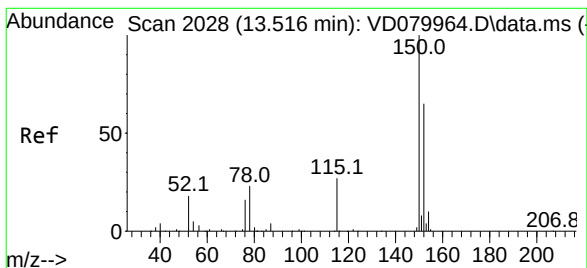
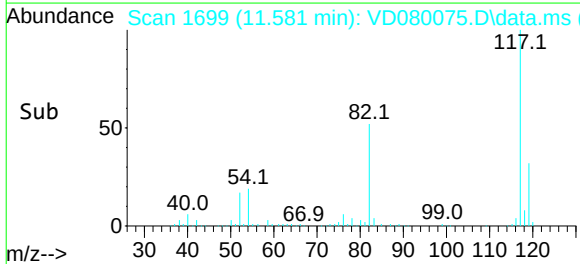
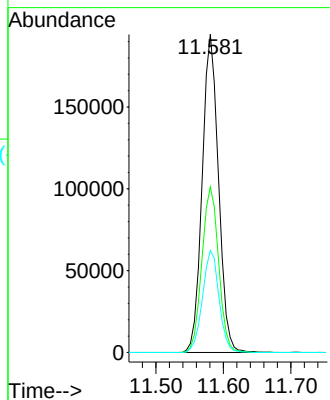
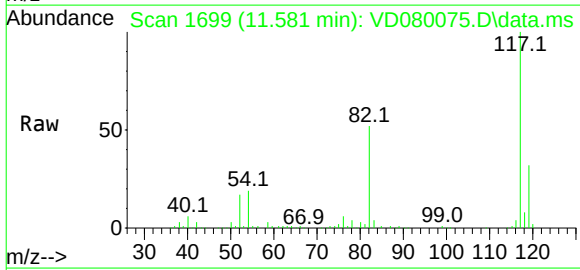
Tgt Ion:117 Resp: 326426

Ion Ratio Lower Upper

117 100

82 52.1 45.8 68.6

119 32.1 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. -0.000 min

Lab File: VD080075.D

Acq: 18 Nov 2024 18:00

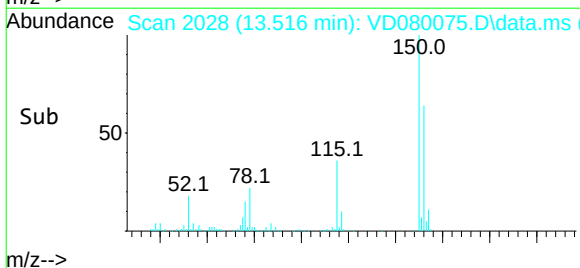
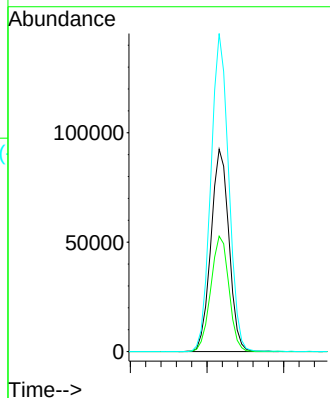
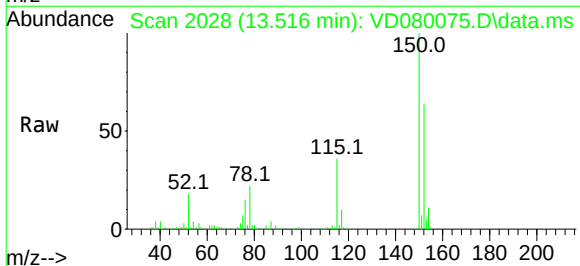
Tgt Ion:152 Resp: 150989

Ion Ratio Lower Upper

152 100

115 57.3 28.9 86.8

150 155.6 0.0 354.8



Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BPT-004	SDG No.:	P4860
Lab Sample ID:	P4860-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	98.1
Sample Wt/Vol:	6.25 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080076.D	1		11/18/24 18:28	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	4.10	ug/Kg
74-87-3	Chloromethane	0.95	U	0.95	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.63	U	0.63	4.10	ug/Kg
74-83-9	Bromomethane	0.84	U	0.84	4.10	ug/Kg
75-00-3	Chloroethane	0.82	U	0.82	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	0.74	U	0.74	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.87	U	0.87	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.64	U	0.64	4.10	ug/Kg
67-64-1	Acetone	5.10	U	5.10	20.4	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.55	U	0.55	4.10	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.10	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	8.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.69	U	0.69	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.51	U	0.51	4.10	ug/Kg
110-82-7	Cyclohexane	0.56	U	0.56	4.10	ug/Kg
78-93-3	2-Butanone	4.60	U	4.60	20.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.71	U	0.71	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	4.10	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	4.10	ug/Kg
67-66-3	Chloroform	0.55	U	0.55	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.64	U	0.64	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.71	U	0.71	4.10	ug/Kg
71-43-2	Benzene	0.59	U	0.59	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.50	U	0.50	4.10	ug/Kg
79-01-6	Trichloroethene	0.61	U	0.61	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.54	U	0.54	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.46	U	0.46	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.50	U	3.50	20.4	ug/Kg
108-88-3	Toluene	0.55	U	0.55	4.10	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BPT-004	SDG No.:	P4860
Lab Sample ID:	P4860-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	98.1
Sample Wt/Vol:	6.25 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080076.D	1		11/18/24 18:28	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.49	U	0.49	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.46	U	0.46	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.69	U	0.69	4.10	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	20.4	ug/Kg
124-48-1	Dibromochloromethane	0.53	U	0.53	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.64	U	0.64	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.73	U	0.73	4.10	ug/Kg
108-90-7	Chlorobenzene	0.60	U	0.60	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.51	U	0.51	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.20	ug/Kg
95-47-6	o-Xylene	0.57	U	0.57	4.10	ug/Kg
100-42-5	Styrene	0.49	U	0.49	4.10	ug/Kg
75-25-2	Bromoform	0.66	U	0.66	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.55	U	0.55	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.90	U	0.90	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.60	U	0.60	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.65	U	0.65	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.48	U	0.48	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.64	U	0.64	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.64	U	0.64	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	40.7		70 (50) - 130 (163)	81%	SPK: 50
1868-53-7	Dibromofluoromethane	37.8		70 (54) - 130 (147)	76%	SPK: 50
2037-26-5	Toluene-d8	31.8	*	70 (58) - 130 (134)	64%	SPK: 50
460-00-4	4-Bromofluorobenzene	30.6	*	70 (29) - 130 (146)	61%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	201000	7.875			
540-36-3	1,4-Difluorobenzene	364000	8.78			
3114-55-4	Chlorobenzene-d5	324000	11.58			
3855-82-1	1,4-Dichlorobenzene-d4	144000	13.516			

Report of Analysis

Client:	Tetra Tech		Date Collected:	11/14/24	
Project:	Ocean County Landfill 2024		Date Received:	11/14/24	
Client Sample ID:	PH2-BPT-004		SDG No.:	P4860	
Lab Sample ID:	P4860-05		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	98.1	
Sample Wt/Vol:	6.25	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RTX-VMS	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080076.D	1		11/18/24 18:28	VD111824

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_D\Data\VD111824\
 Data File : VD080076.D
 Acq On : 18 Nov 2024 18:28
 Operator : RP/MD
 Sample : P4860-05
 Misc : 6.25G/5ml/MSVOA_D/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PH2-BPT-004

Quant Time: Nov 19 04:50:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	200921	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.780	114	364222	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.580	117	324341	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	143861	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.233	65	84226	40.715	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	81.420%
35) Dibromofluoromethane	7.810	113	91562	37.773	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	75.540%
50) Toluene-d8	10.269	98	290784	31.828	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	63.660%
62) 4-Bromofluorobenzene	12.574	95	91664	30.581	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	61.160%

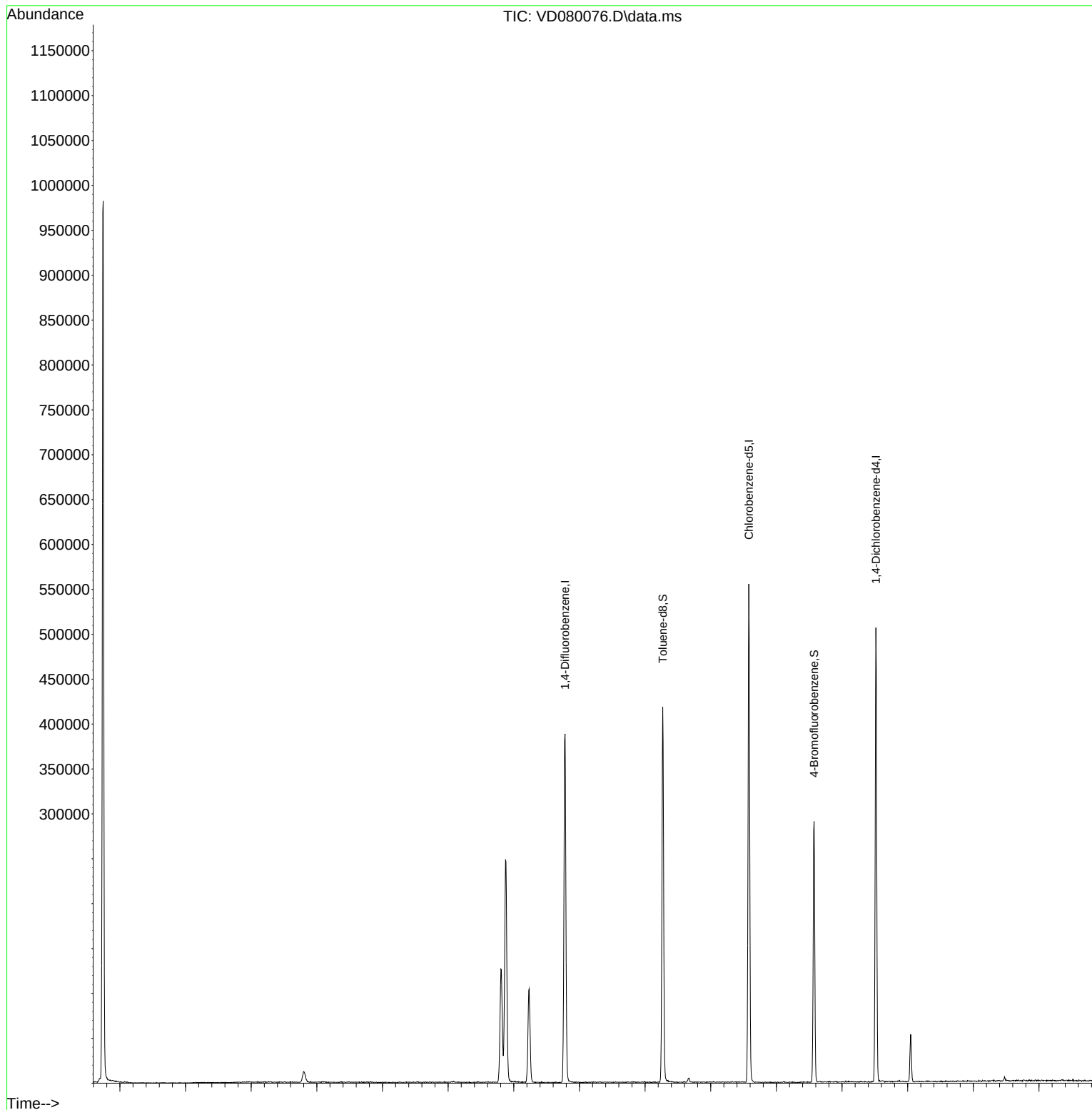
Target Compounds	Qvalue

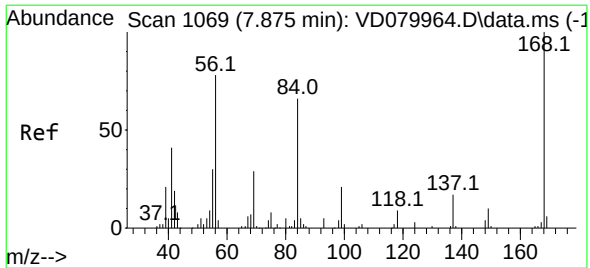
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080076.D
Acq On : 18 Nov 2024 18:28
Operator : RP/MD
Sample : P4860-05
Misc : 6.25G/5ml/MSVOA_D/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
PH2-BPT-004

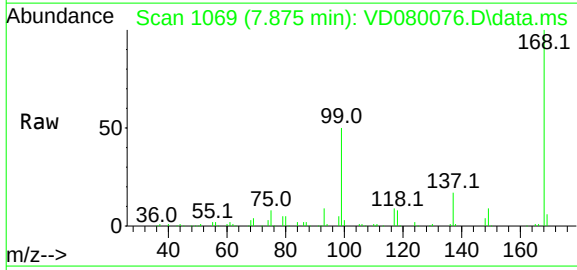
Quant Time: Nov 19 04:50:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



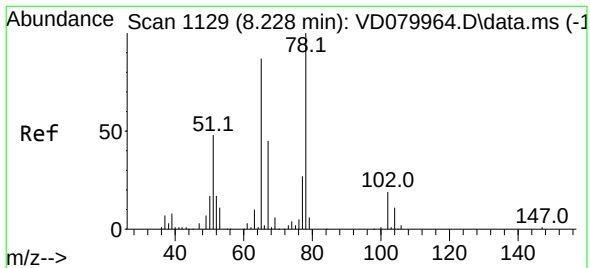
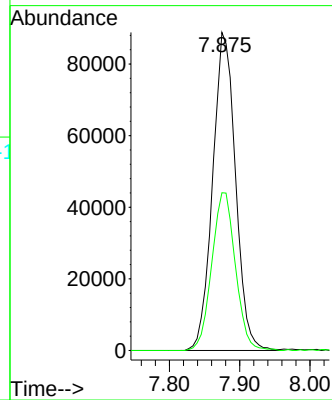
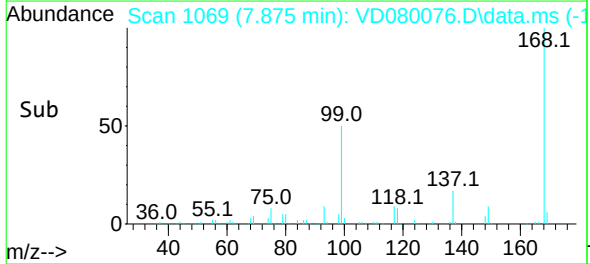


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.000 min
Lab File: VD080076.D
Acq: 18 Nov 2024 18:28

Instrument :
MSVOA_D
ClientSampleId :
PH2-BPT-004

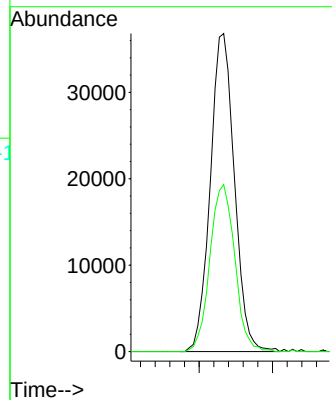
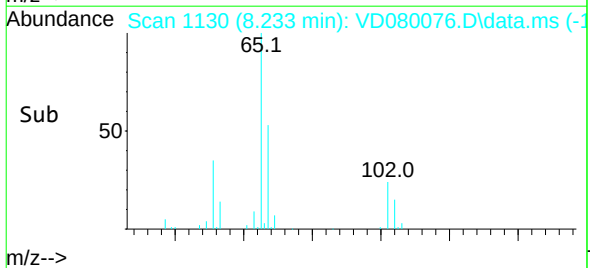
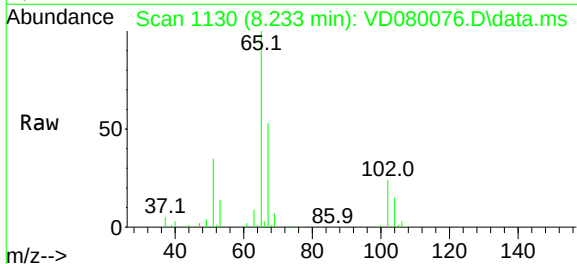


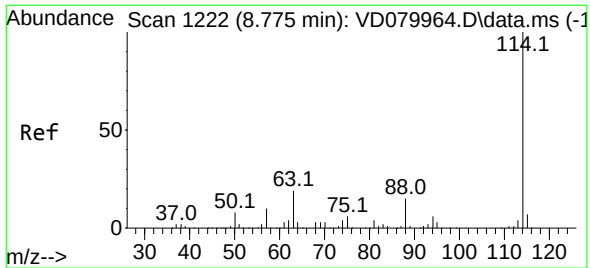
Tgt Ion:168 Resp: 200921
Ion Ratio Lower Upper
168 100
99 49.6 46.0 69.0



#33
1,2-Dichloroethane-d4
Concen: 40.715 ug/l
RT: 8.233 min Scan# 1130
Delta R.T. 0.005 min
Lab File: VD080076.D
Acq: 18 Nov 2024 18:28

Tgt Ion: 65 Resp: 84226
Ion Ratio Lower Upper
65 100
67 53.9 0.0 109.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.780 min Scan# 12

Delta R.T. 0.005 min

Lab File: VD080076.D

Acq: 18 Nov 2024 18:28

Instrument :

MSVOA_D

ClientSampleId :

PH2-BPT-004

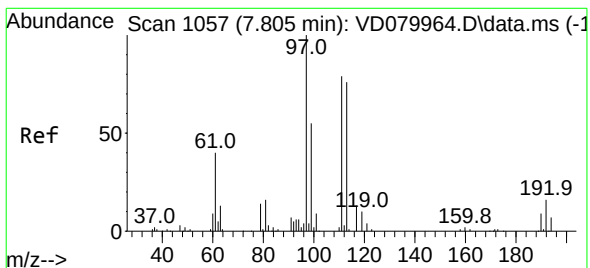
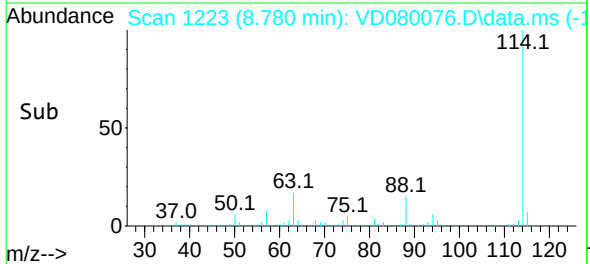
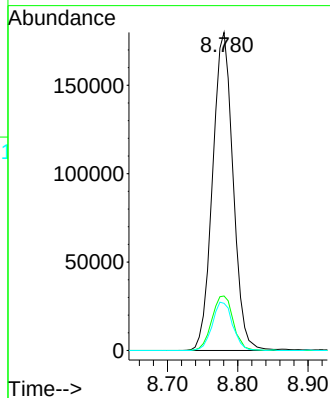
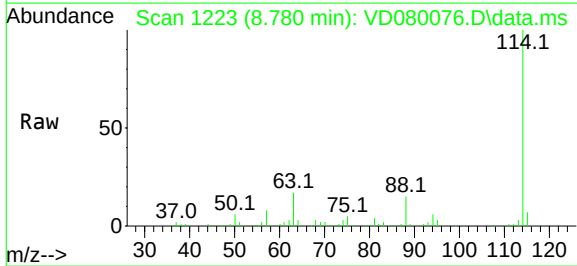
Tgt Ion:114 Resp: 364222

Ion Ratio Lower Upper

114 100

63 17.1 0.0 38.8

88 14.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 37.773 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.005 min

Lab File: VD080076.D

Acq: 18 Nov 2024 18:28

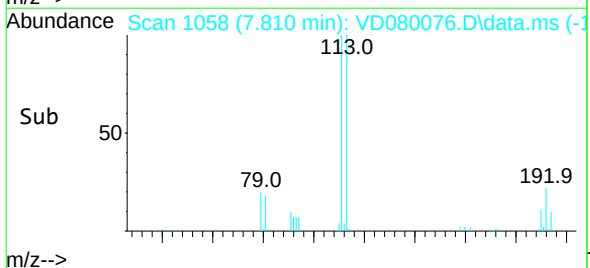
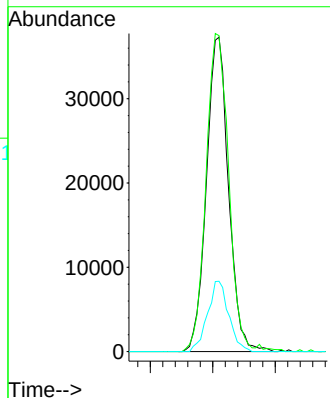
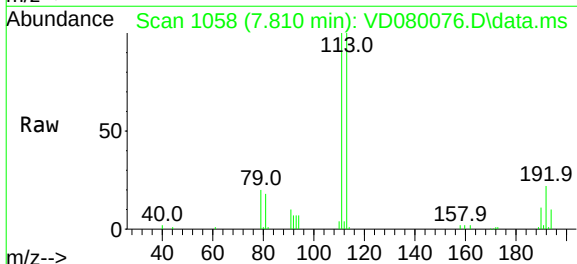
Tgt Ion:113 Resp: 91562

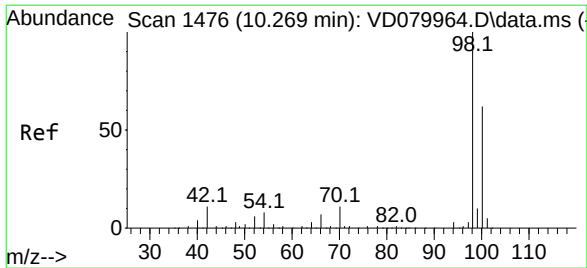
Ion Ratio Lower Upper

113 100

111 102.9 82.5 123.7

192 21.4 16.6 25.0





#50

Toluene-d8

Concen: 31.828 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. -0.000 min

Lab File: VD080076.D

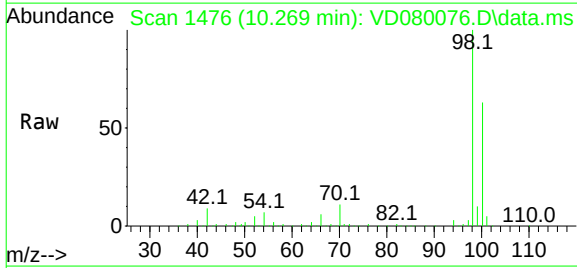
Acq: 18 Nov 2024 18:28

Instrument :

MSVOA_D

ClientSampleId :

PH2-BPT-004

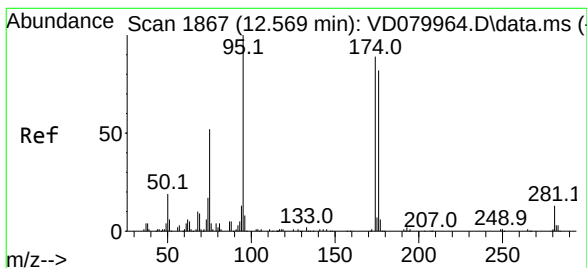
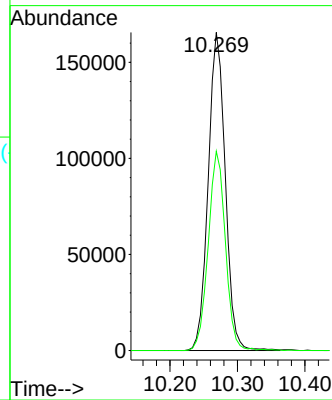
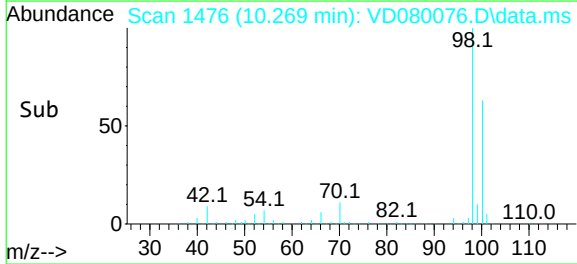


Tgt Ion: 98 Resp: 290784

Ion Ratio Lower Upper

98 100

100 63.1 50.2 75.4



#62

4-Bromofluorobenzene

Concen: 30.581 ug/l

RT: 12.574 min Scan# 1868

Delta R.T. 0.005 min

Lab File: VD080076.D

Acq: 18 Nov 2024 18:28

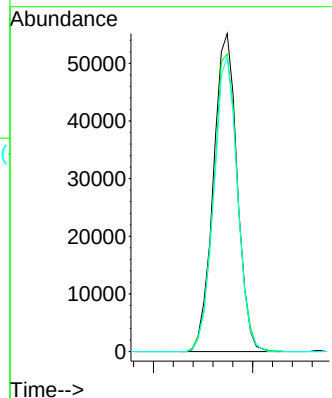
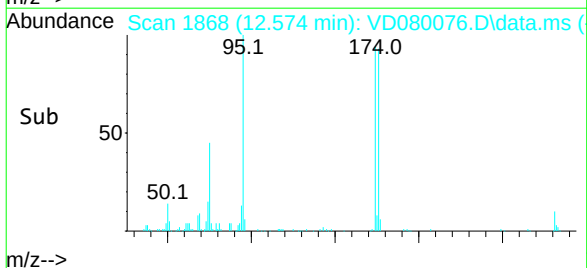
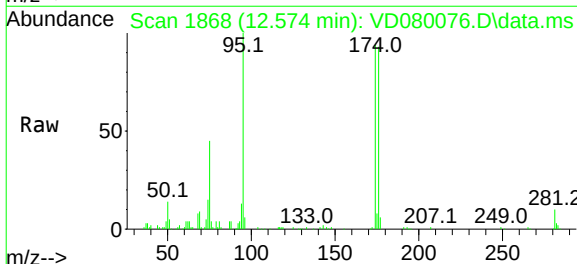
Tgt Ion: 95 Resp: 91664

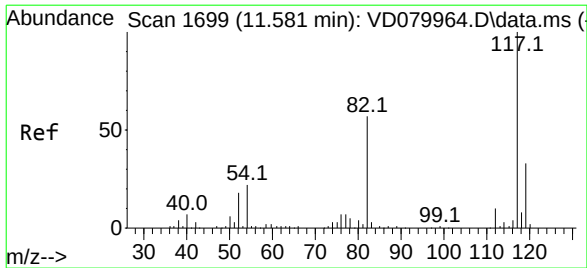
Ion Ratio Lower Upper

95 100

174 94.9 0.0 173.4

176 92.0 0.0 166.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.580 min Scan# 1699

Delta R.T. -0.001 min

Lab File: VD080076.D

Acq: 18 Nov 2024 18:28

Instrument :

MSVOA_D

ClientSampleId :

PH2-BPT-004

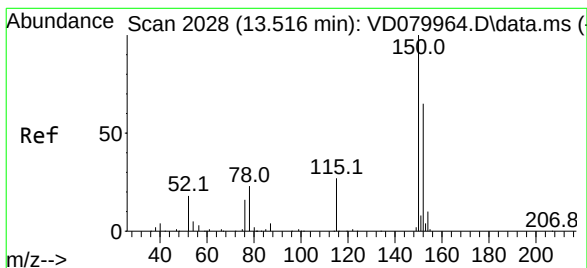
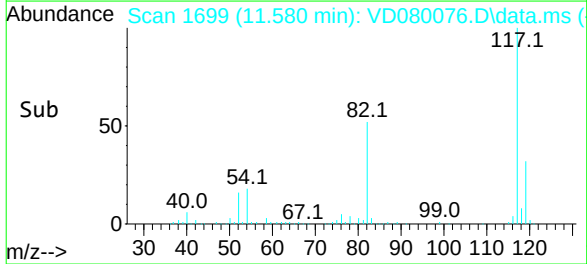
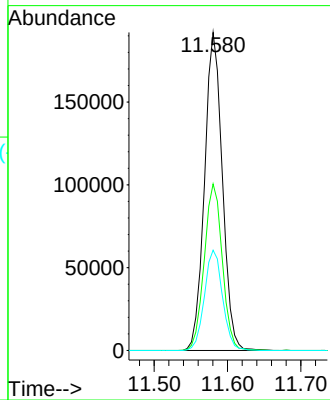
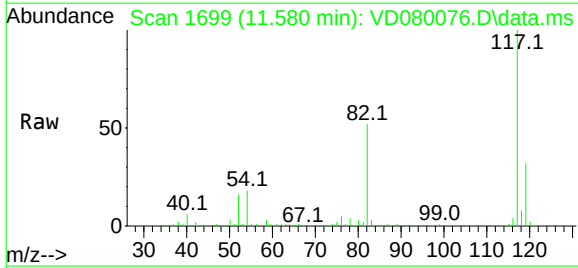
Tgt Ion:117 Resp: 324341

Ion Ratio Lower Upper

117 100

82 52.4 45.8 68.6

119 31.5 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. -0.000 min

Lab File: VD080076.D

Acq: 18 Nov 2024 18:28

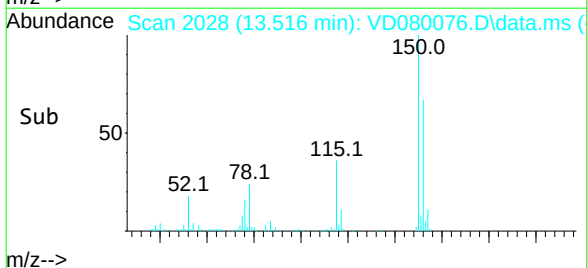
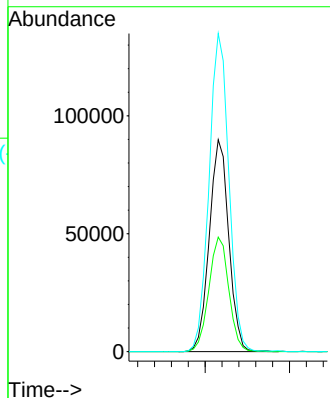
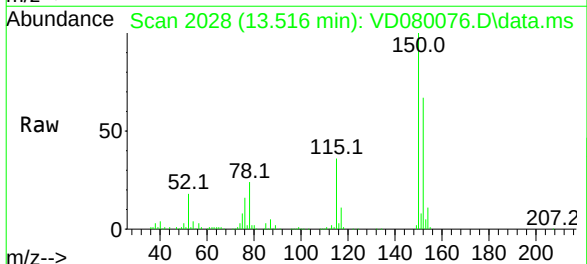
Tgt Ion:152 Resp: 143861

Ion Ratio Lower Upper

152 100

115 55.4 28.9 86.8

150 152.9 0.0 354.8



Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-009	SDG No.:	P4860
Lab Sample ID:	P4860-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	98.3
Sample Wt/Vol:	7.41 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
VY020369.D	1		11/20/24 18:58	VY112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	3.40	ug/Kg
74-87-3	Chloromethane	0.80	U	0.80	3.40	ug/Kg
75-01-4	Vinyl Chloride	0.53	U	0.53	3.40	ug/Kg
74-83-9	Bromomethane	0.71	U	0.71	3.40	ug/Kg
75-00-3	Chloroethane	0.69	U	0.69	3.40	ug/Kg
75-69-4	Trichlorofluoromethane	0.62	U	0.62	3.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.73	U	0.73	3.40	ug/Kg
75-35-4	1,1-Dichloroethene	0.54	U	0.54	3.40	ug/Kg
67-64-1	Acetone	4.30	U	4.30	17.2	ug/Kg
75-15-0	Carbon Disulfide	0.88	U	0.88	3.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.46	U	0.46	3.40	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.40	ug/Kg
75-09-2	Methylene Chloride	2.30	U	2.30	6.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.58	U	0.58	3.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.43	U	0.43	3.40	ug/Kg
110-82-7	Cyclohexane	0.47	U	0.47	3.40	ug/Kg
78-93-3	2-Butanone	3.90	U	3.90	17.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.60	U	0.60	3.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.42	U	0.42	3.40	ug/Kg
74-97-5	Bromochloromethane	1.70	U	1.70	3.40	ug/Kg
67-66-3	Chloroform	0.46	U	0.46	3.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.54	U	0.54	3.40	ug/Kg
108-87-2	Methylcyclohexane	0.60	U	0.60	3.40	ug/Kg
71-43-2	Benzene	0.49	U	0.49	3.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.42	U	0.42	3.40	ug/Kg
79-01-6	Trichloroethene	0.51	U	0.51	3.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.45	U	0.45	3.40	ug/Kg
75-27-4	Bromodichloromethane	0.38	U	0.38	3.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	17.2	ug/Kg
108-88-3	Toluene	0.46	U	0.46	3.40	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-009	SDG No.:	P4860
Lab Sample ID:	P4860-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	98.3
Sample Wt/Vol:	7.41 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
VY020369.D	1		11/20/24 18:58	VY112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.41	U	0.41	3.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.39	U	0.39	3.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.58	U	0.58	3.40	ug/Kg
591-78-6	2-Hexanone	3.30	U	3.30	17.2	ug/Kg
124-48-1	Dibromochloromethane	0.45	U	0.45	3.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.54	U	0.54	3.40	ug/Kg
127-18-4	Tetrachloroethene	0.61	U	0.61	3.40	ug/Kg
108-90-7	Chlorobenzene	0.51	U	0.51	3.40	ug/Kg
100-41-4	Ethyl Benzene	0.43	U	0.43	3.40	ug/Kg
179601-23-1	m/p-Xylenes	0.93	U	0.93	6.90	ug/Kg
95-47-6	o-Xylene	0.48	U	0.48	3.40	ug/Kg
100-42-5	Styrene	0.41	U	0.41	3.40	ug/Kg
75-25-2	Bromoform	0.56	U	0.56	3.40	ug/Kg
98-82-8	Isopropylbenzene	0.46	U	0.46	3.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.76	U	0.76	3.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.51	U	0.51	3.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.55	U	0.55	3.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.40	U	0.40	3.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.10	U	1.10	3.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.54	U	0.54	3.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.54	U	0.54	3.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.5		70 (50) - 130 (163)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		70 (54) - 130 (147)	96%	SPK: 50
2037-26-5	Toluene-d8	48.1		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		70 (29) - 130 (146)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	143000	7.713			
540-36-3	1,4-Difluorobenzene	274000	8.616			
3114-55-4	Chlorobenzene-d5	254000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	99300	13.346			

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-009	SDG No.:	P4860
Lab Sample ID:	P4860-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	98.3
Sample Wt/Vol:	7.41	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10
GC Column:	RXI-624	Level :	LOW
Prep Method :	ID : 0.25		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020369.D	1		11/20/24 18:58	VY112024

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\VY112024\
Data File : VY020369.D
Acq On : 20 Nov 2024 18:58
Operator : SY/MD
Sample : P4860-06
Misc : 7.41g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-009

Quant Time: Nov 21 00:52:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	142975	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	273649	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	253521	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	99327	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	84547	51.471	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	102.940%
35) Dibromofluoromethane	7.634	113	84465	48.136	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	96.280%
50) Toluene-d8	10.103	98	332194	48.059	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.120%
62) 4-Bromofluorobenzene	12.402	95	111020	49.963	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	99.920%

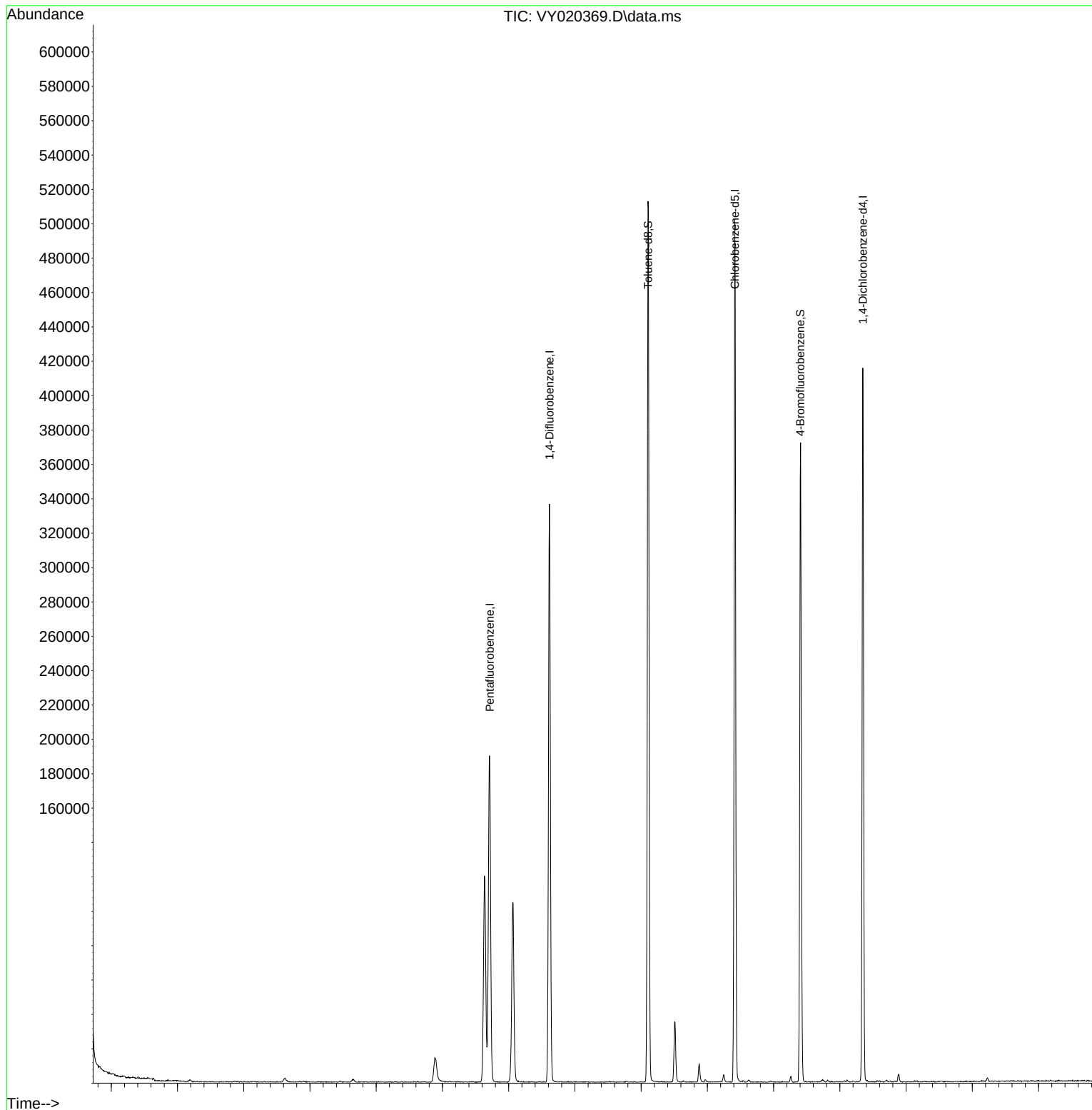
Target Compounds	Qvalue

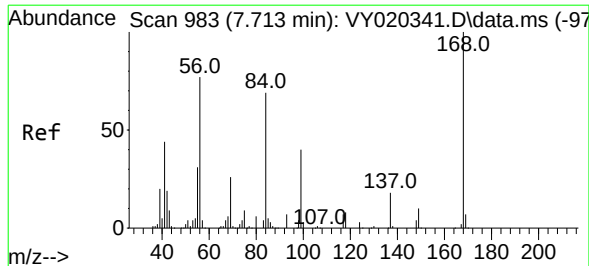
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020369.D
Acq On : 20 Nov 2024 18:58
Operator : SY/MD
Sample : P4860-06
Misc : 7.41g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-009

Quant Time: Nov 21 00:52:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

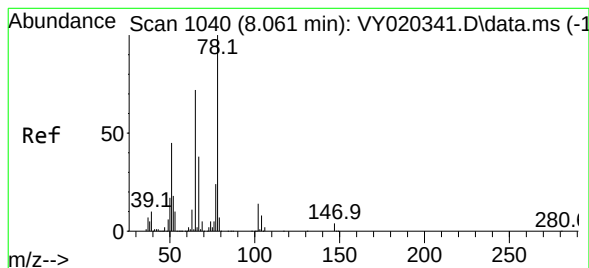
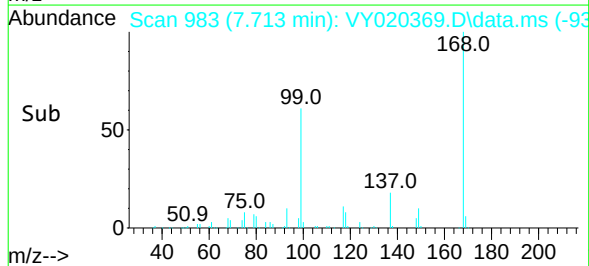
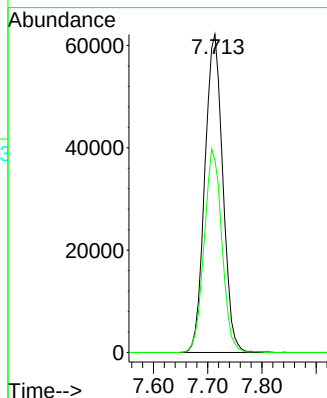
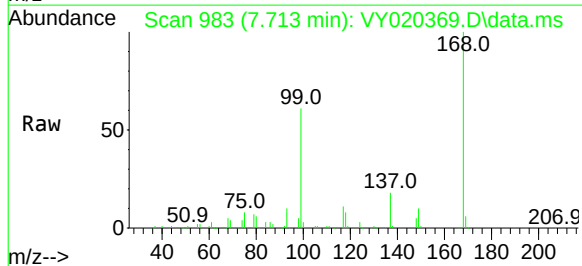




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY020369.D
Acq: 20 Nov 2024 18:58

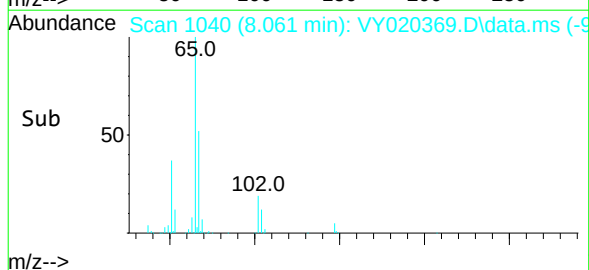
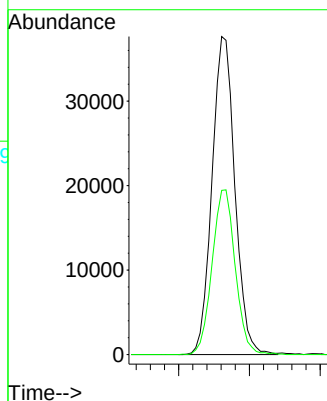
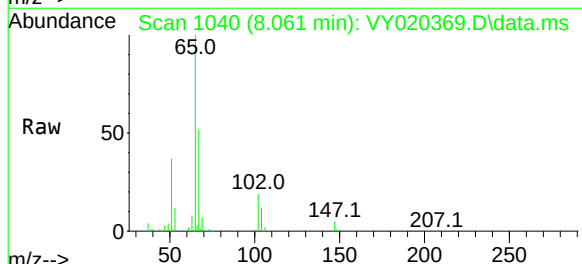
Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-009

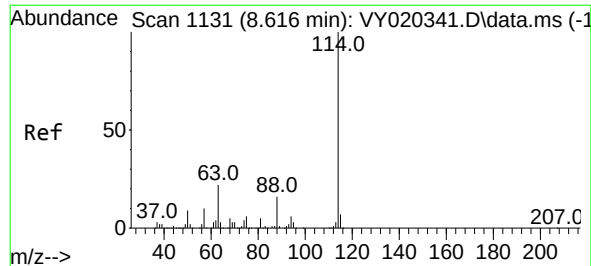
Tgt Ion:168 Resp: 142975
Ion Ratio Lower Upper
168 100
99 60.5 46.6 69.8



#33
1,2-Dichloroethane-d4
Concen: 51.471 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020369.D
Acq: 20 Nov 2024 18:58

Tgt Ion: 65 Resp: 84547
Ion Ratio Lower Upper
65 100
67 52.4 0.0 105.8

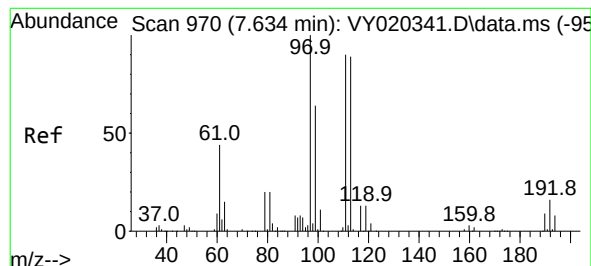
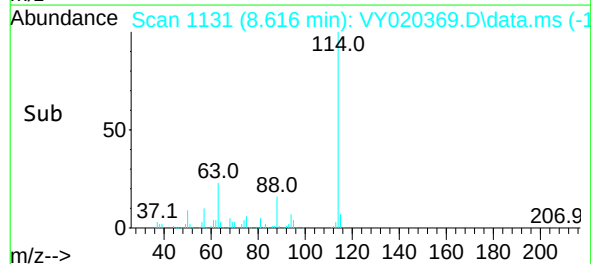
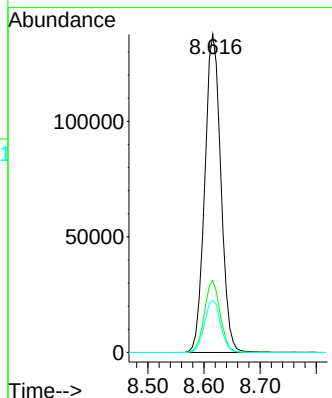
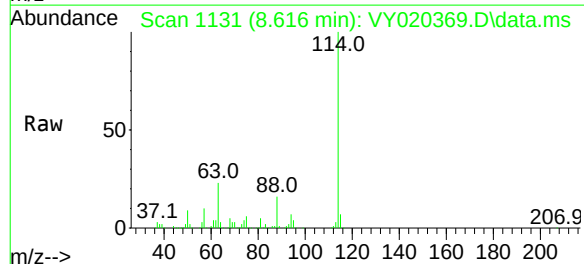




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY020369.D
Acq: 20 Nov 2024 18:58

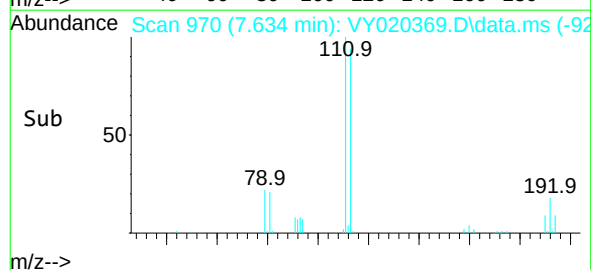
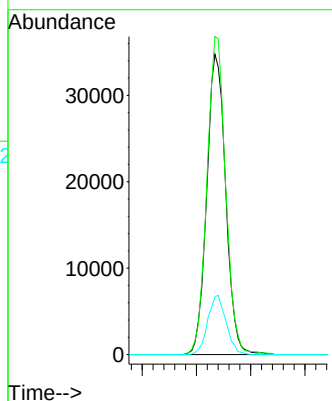
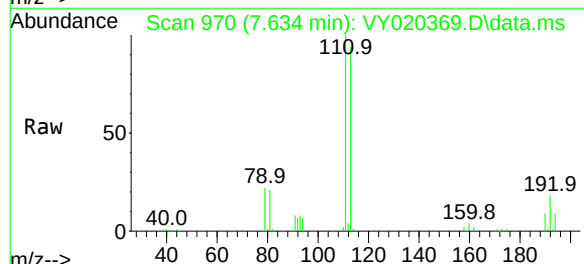
Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-009

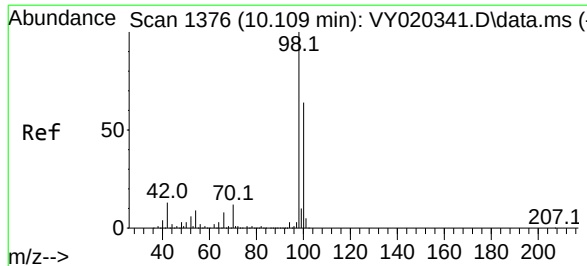
Tgt Ion:	114	Resp:	273649
Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	44.8
88	16.4	0.0	32.0



#35
Dibromofluoromethane
Concen: 48.136 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY020369.D
Acq: 20 Nov 2024 18:58

Tgt Ion:	113	Resp:	84465
Ion	Ratio	Lower	Upper
113	100		
111	104.5	81.4	122.0
192	19.1	15.1	22.7





#50

Toluene-d8

Concen: 48.059 ug/l

RT: 10.103 min Scan# 1376

Delta R.T. -0.006 min

Lab File: VY020369.D

Acq: 20 Nov 2024 18:58

Instrument :

MSVOA_Y

ClientSampleId :

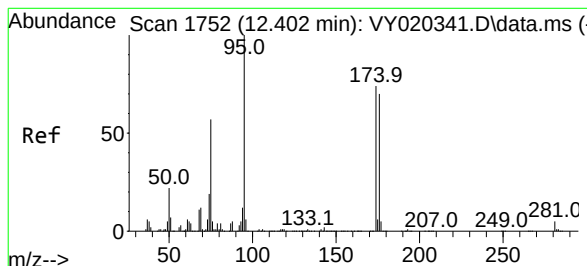
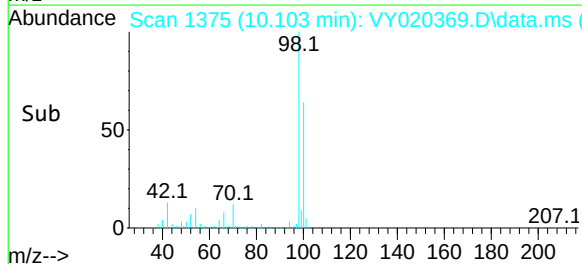
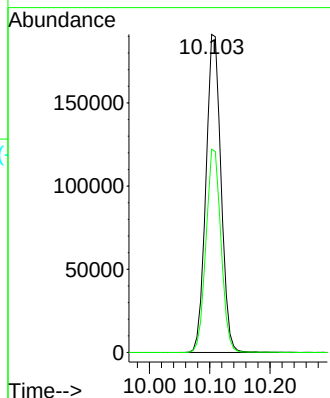
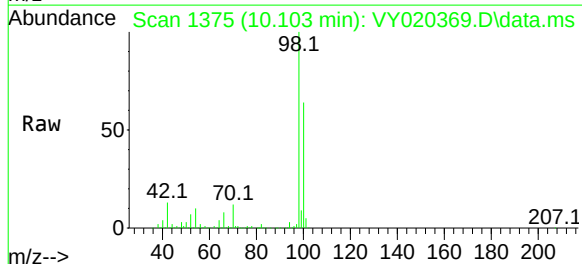
PH2-BOT-009

Tgt Ion: 98 Resp: 332194

Ion Ratio Lower Upper

98 100

100 63.6 51.3 76.9



#62

4-Bromofluorobenzene

Concen: 49.963 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.000 min

Lab File: VY020369.D

Acq: 20 Nov 2024 18:58

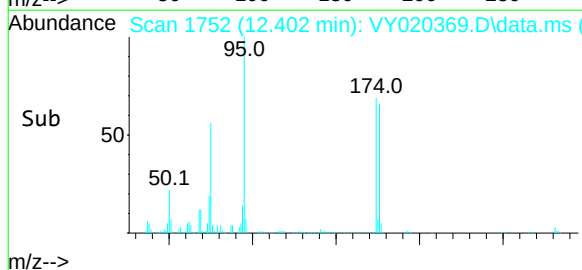
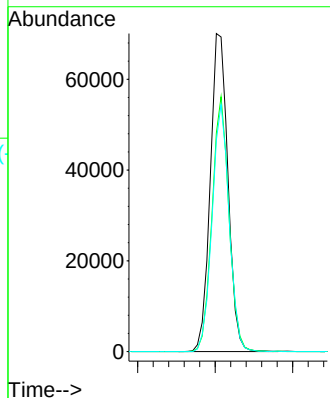
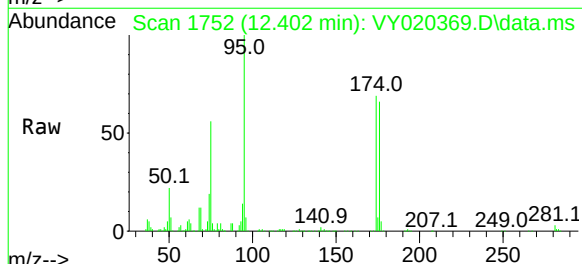
Tgt Ion: 95 Resp: 111020

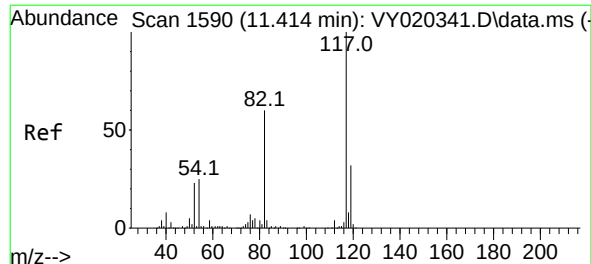
Ion Ratio Lower Upper

95 100

174 76.6 0.0 156.8

176 74.7 0.0 152.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY020369.D

Acq: 20 Nov 2024 18:58

Instrument :

MSVOA_Y

ClientSampleId :

PH2-BOT-009

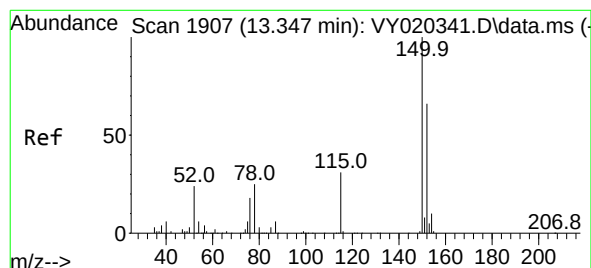
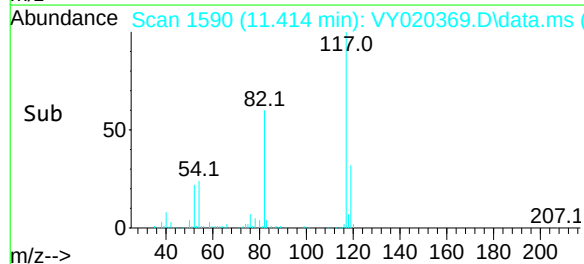
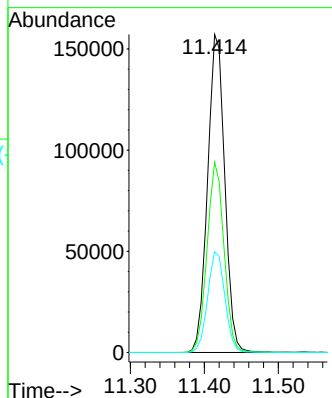
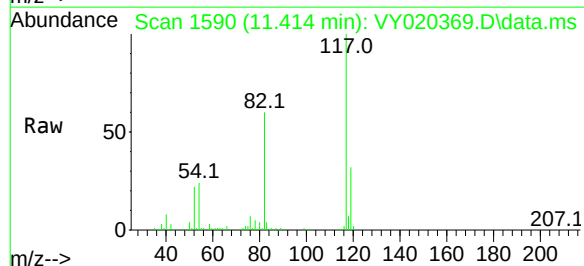
Tgt Ion:117 Resp: 253521

Ion Ratio Lower Upper

117 100

82 59.8 48.2 72.4

119 31.7 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY020369.D

Acq: 20 Nov 2024 18:58

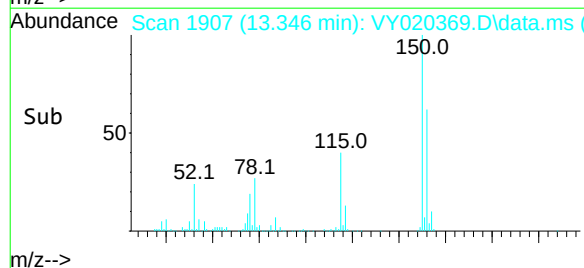
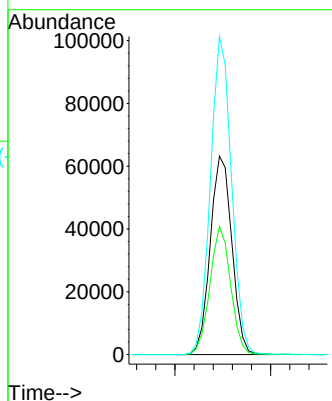
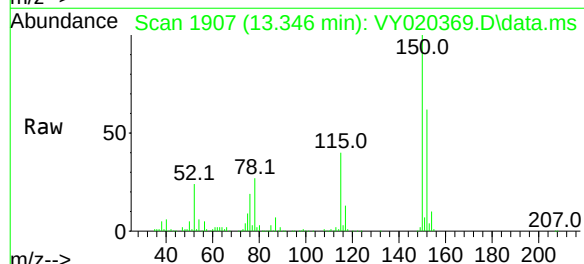
Tgt Ion:152 Resp: 99327

Ion Ratio Lower Upper

152 100

115 61.8 30.0 90.0

150 155.9 0.0 348.2



Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-008	SDG No.:	P4860
Lab Sample ID:	P4860-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	96.8
Sample Wt/Vol:	6.2 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080078.D	1		11/18/24 19:22	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	4.20	ug/Kg
74-87-3	Chloromethane	0.97	U	0.97	4.20	ug/Kg
75-01-4	Vinyl Chloride	0.64	U	0.64	4.20	ug/Kg
74-83-9	Bromomethane	0.86	U	0.86	4.20	ug/Kg
75-00-3	Chloroethane	0.84	U	0.84	4.20	ug/Kg
75-69-4	Trichlorofluoromethane	0.76	U	0.76	4.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.89	U	0.89	4.20	ug/Kg
75-35-4	1,1-Dichloroethene	0.65	U	0.65	4.20	ug/Kg
67-64-1	Acetone	5.20	U	5.20	20.8	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	4.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.56	U	0.56	4.20	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.20	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	8.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.70	U	0.70	4.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.52	U	0.52	4.20	ug/Kg
110-82-7	Cyclohexane	0.57	U	0.57	4.20	ug/Kg
78-93-3	2-Butanone	4.70	U	4.70	20.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.72	U	0.72	4.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.51	U	0.51	4.20	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	4.20	ug/Kg
67-66-3	Chloroform	0.56	U	0.56	4.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.65	U	0.65	4.20	ug/Kg
108-87-2	Methylcyclohexane	0.72	U	0.72	4.20	ug/Kg
71-43-2	Benzene	0.60	U	0.60	4.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.51	U	0.51	4.20	ug/Kg
79-01-6	Trichloroethene	0.62	U	0.62	4.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.55	U	0.55	4.20	ug/Kg
75-27-4	Bromodichloromethane	0.47	U	0.47	4.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	20.8	ug/Kg
108-88-3	Toluene	0.56	U	0.56	4.20	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-008	SDG No.:	P4860
Lab Sample ID:	P4860-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	96.8
Sample Wt/Vol:	6.2 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080078.D	1		11/18/24 19:22	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.50	4.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.47	U	0.47	4.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.70	U	0.70	4.20	ug/Kg
591-78-6	2-Hexanone	4.00	U	4.00	20.8	ug/Kg
124-48-1	Dibromochloromethane	0.54	U	0.54	4.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.66	U	0.66	4.20	ug/Kg
127-18-4	Tetrachloroethene	0.74	U	0.74	4.20	ug/Kg
108-90-7	Chlorobenzene	0.62	U	0.62	4.20	ug/Kg
100-41-4	Ethyl Benzene	0.52	U	0.52	4.20	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.30	ug/Kg
95-47-6	o-Xylene	0.58	U	0.58	4.20	ug/Kg
100-42-5	Styrene	0.50	U	0.50	4.20	ug/Kg
75-25-2	Bromoform	0.67	U	0.67	4.20	ug/Kg
98-82-8	Isopropylbenzene	0.56	U	0.56	4.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.92	U	0.92	4.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.62	U	0.62	4.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.67	U	0.67	4.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.49	U	0.49	4.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.66	U	0.66	4.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.65	U	0.65	4.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.5		70 (50) - 130 (163)	89%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		70 (54) - 130 (147)	92%	SPK: 50
2037-26-5	Toluene-d8	41.8		70 (58) - 130 (134)	84%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.3		70 (29) - 130 (146)	73%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	210000	7.875			
540-36-3	1,4-Difluorobenzene	360000	8.775			
3114-55-4	Chlorobenzene-d5	321000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	142000	13.516			

Report of Analysis

Client:	Tetra Tech		Date Collected:	11/14/24	
Project:	Ocean County Landfill 2024		Date Received:	11/14/24	
Client Sample ID:	PH2-BOT-008		SDG No.:	P4860	
Lab Sample ID:	P4860-07		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	96.8	
Sample Wt/Vol:	6.2	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RTX-VMS	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080078.D	1		11/18/24 19:22	VD111824

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_D\Data\VD111824\
Data File : VD080078.D
Acq On : 18 Nov 2024 19:22
Operator : RP/MD
Sample : P4860-07
Misc : 6.20G/5ml/MSVOA_D/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
PH2-BOT-008

Quant Time: Nov 19 04:51:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	209792	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	360025	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	320832	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	141967	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	96108	44.494	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	88.980%
35) Dibromofluoromethane	7.805	113	110302	46.034	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	92.060%
50) Toluene-d8	10.269	98	377907	41.846	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	83.700%
62) 4-Bromofluorobenzene	12.569	95	107643	36.330	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	72.660%

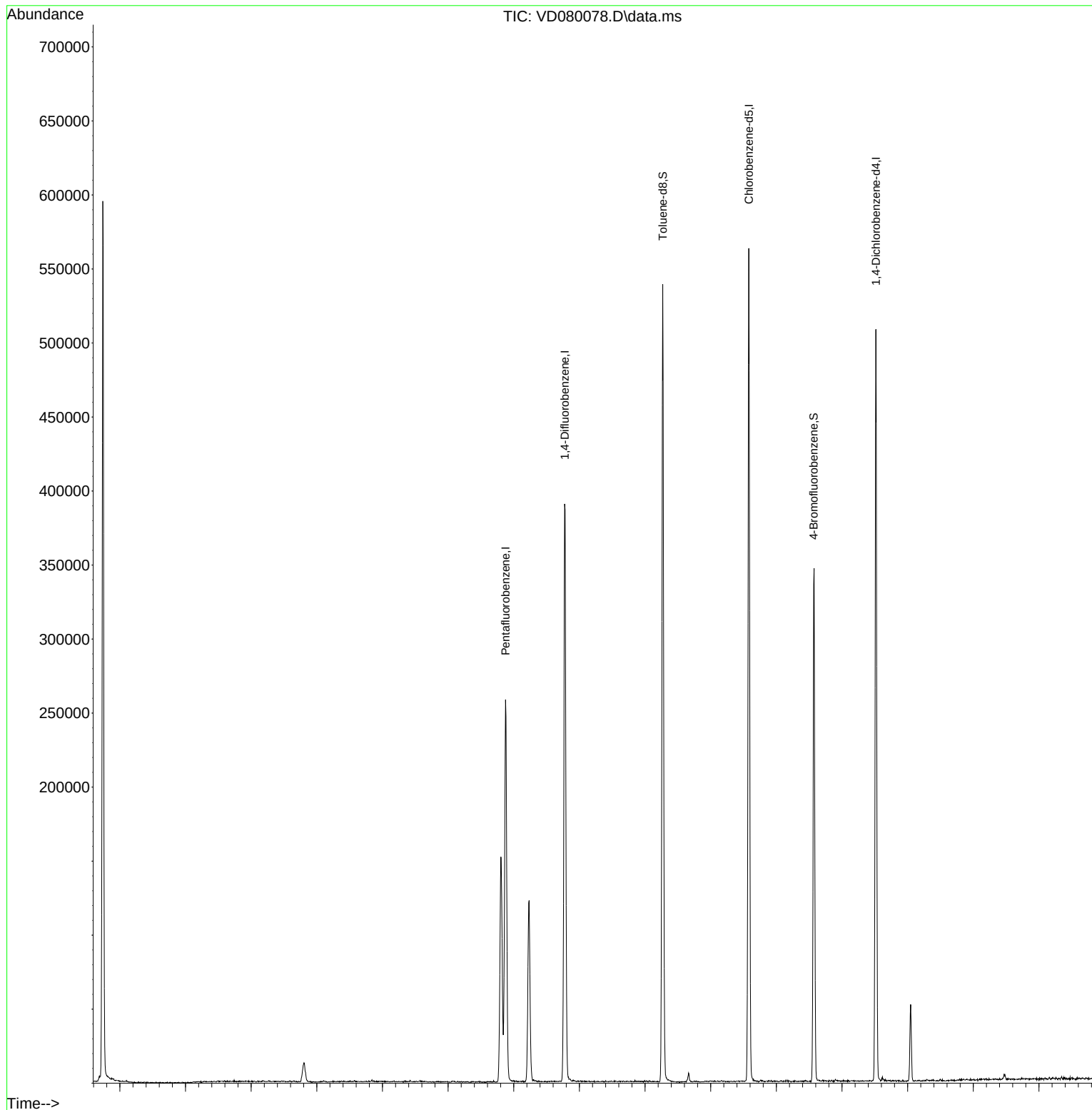
Target Compounds	Qvalue

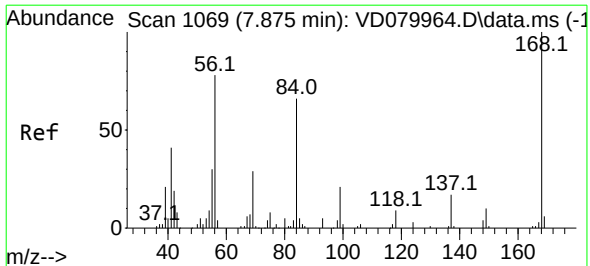
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080078.D
Acq On : 18 Nov 2024 19:22
Operator : RP/MD
Sample : P4860-07
Misc : 6.20G/5ml/MSVOA_D/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
PH2-BOT-008

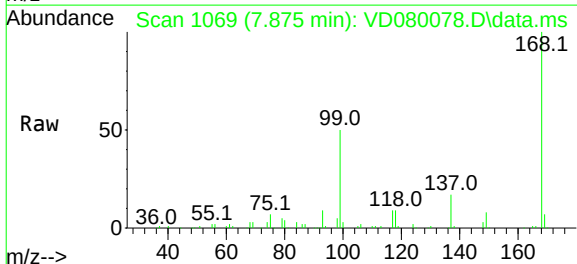
Quant Time: Nov 19 04:51:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



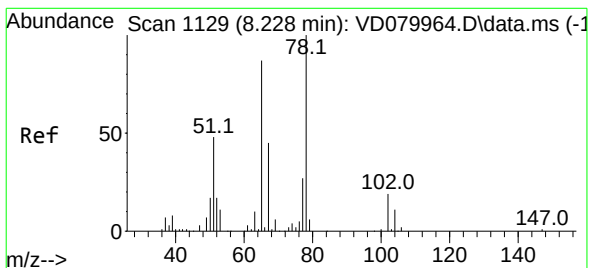
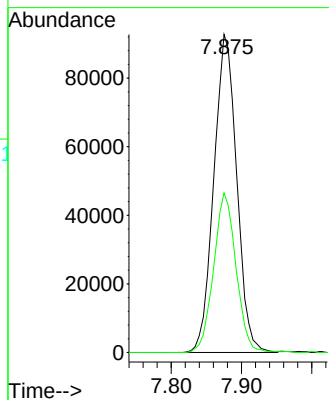
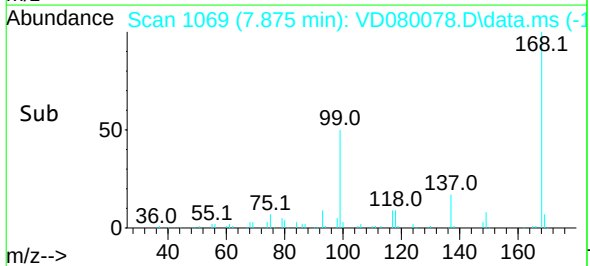


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD080078.D
Acq: 18 Nov 2024 19:22

Instrument :
MSVOA_D
ClientSampleId :
PH2-BOT-008

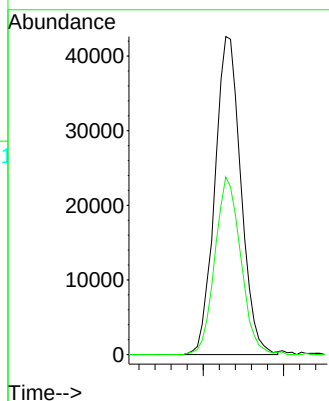
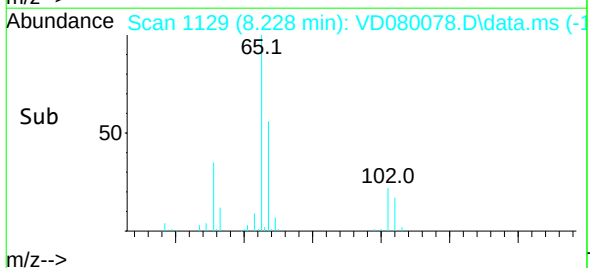
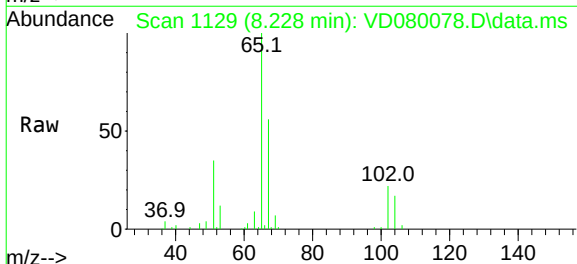


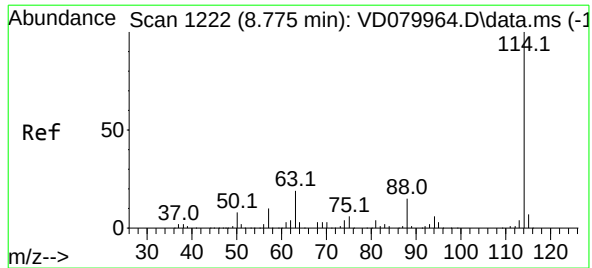
Tgt Ion:168 Resp: 209792
Ion Ratio Lower Upper
168 100
99 50.2 46.0 69.0



#33
1,2-Dichloroethane-d4
Concen: 44.494 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VD080078.D
Acq: 18 Nov 2024 19:22

Tgt Ion: 65 Resp: 96108
Ion Ratio Lower Upper
65 100
67 55.4 0.0 109.2

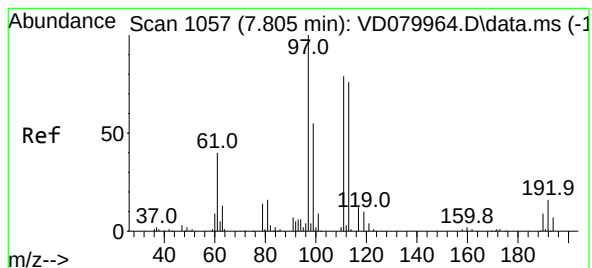
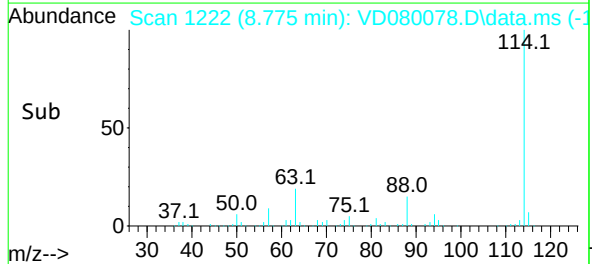
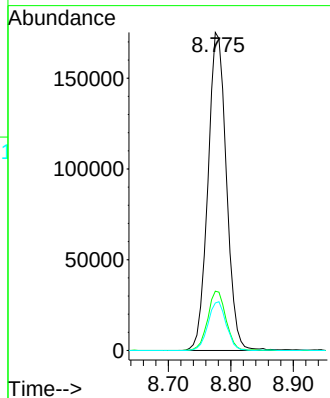
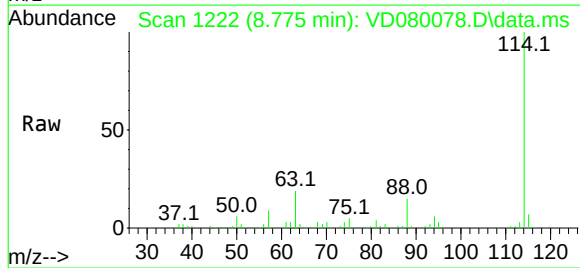




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.775 min Scan# 1222
Delta R.T. 0.000 min
Lab File: VD080078.D
Acq: 18 Nov 2024 19:22

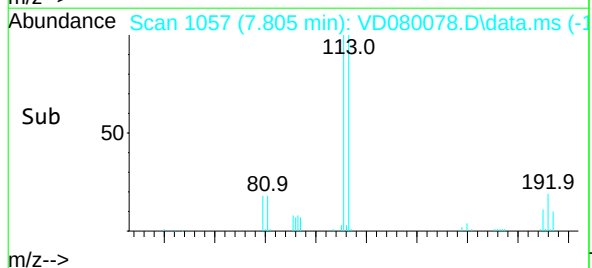
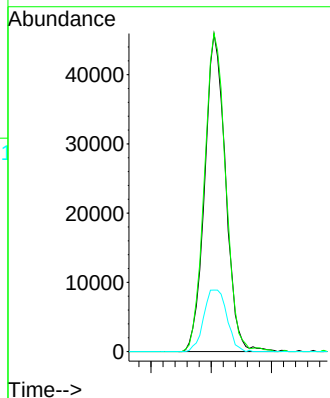
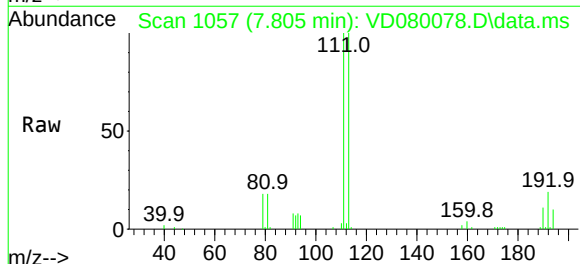
Instrument :
MSVOA_D
ClientSampleId :
PH2-BOT-008

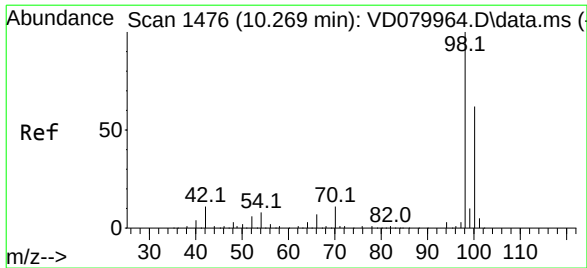
Tgt Ion:	114	Resp:	360025
Ion Ratio	Lower	Upper	
114	100		
63	18.6	0.0	38.8
88	14.9	0.0	30.6



#35
Dibromofluoromethane
Concen: 46.034 ug/l
RT: 7.805 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VD080078.D
Acq: 18 Nov 2024 19:22

Tgt Ion:	113	Resp:	110302
Ion Ratio	Lower	Upper	
113	100		
111	102.0	82.5	123.7
192	21.5	16.6	25.0





#50

Toluene-d8

Concen: 41.846 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD080078.D

Acq: 18 Nov 2024 19:22

Instrument :

MSVOA_D

ClientSampleId :

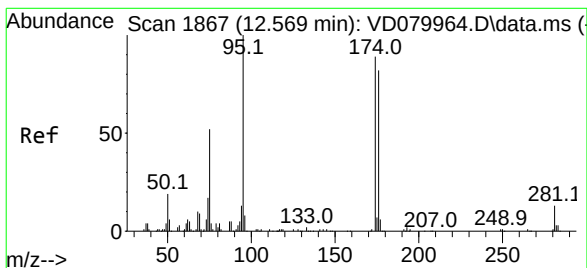
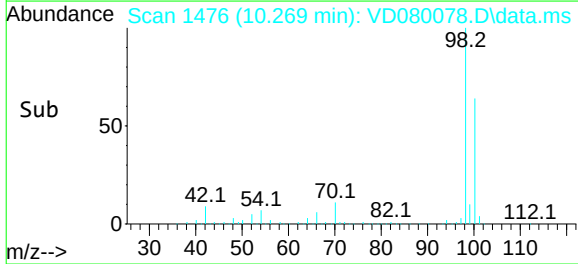
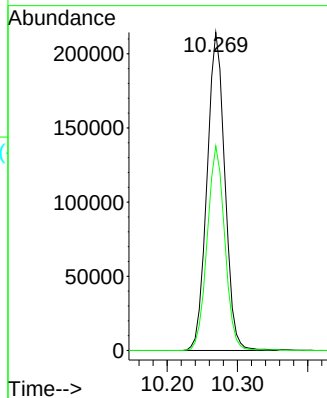
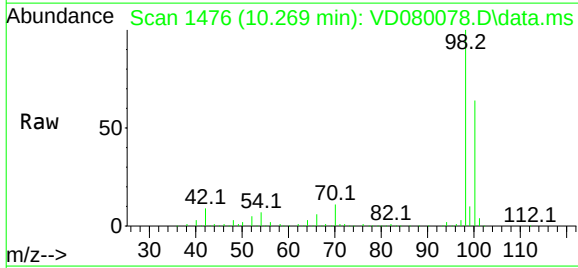
PH2-BOT-008

Tgt Ion: 98 Resp: 377907

Ion Ratio Lower Upper

98 100

100 63.3 50.2 75.4



#62

4-Bromofluorobenzene

Concen: 36.330 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VD080078.D

Acq: 18 Nov 2024 19:22

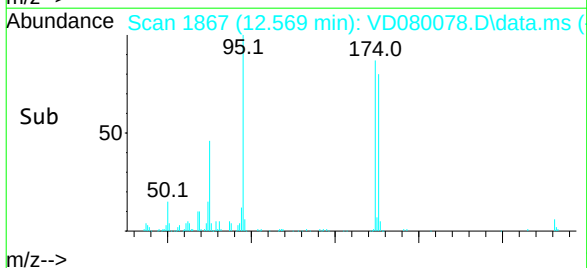
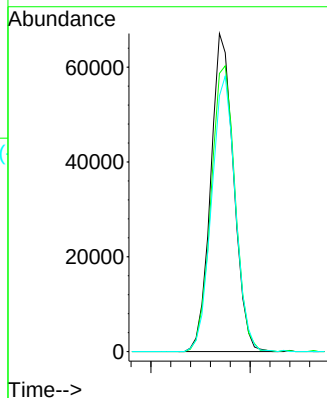
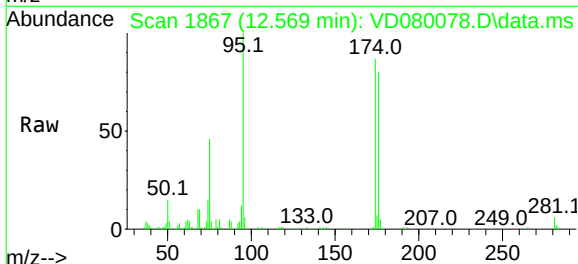
Tgt Ion: 95 Resp: 107643

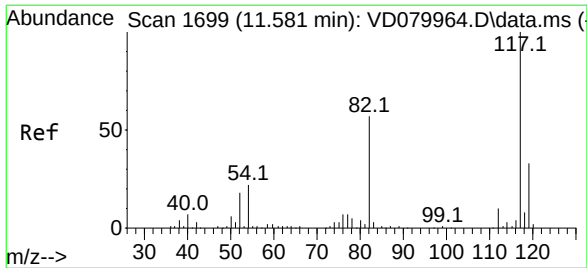
Ion Ratio Lower Upper

95 100

174 94.3 0.0 173.4

176 89.6 0.0 166.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.581 min Scan# 1699

Delta R.T. -0.000 min

Lab File: VD080078.D

Acq: 18 Nov 2024 19:22

Instrument :

MSVOA_D

ClientSampleId :

PH2-BOT-008

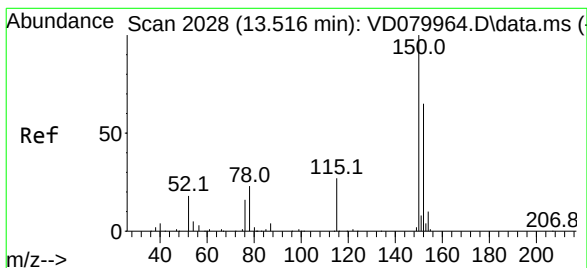
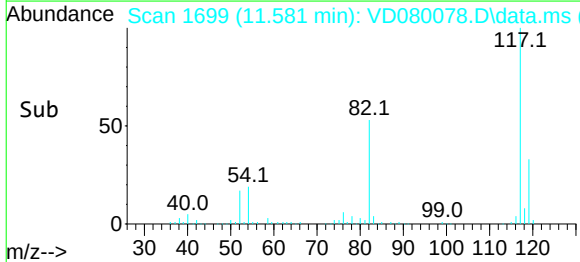
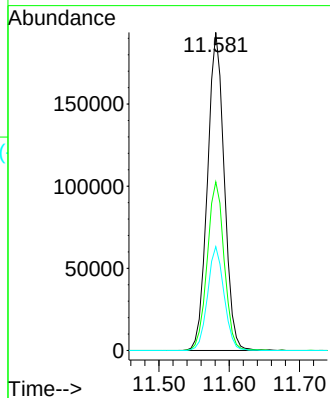
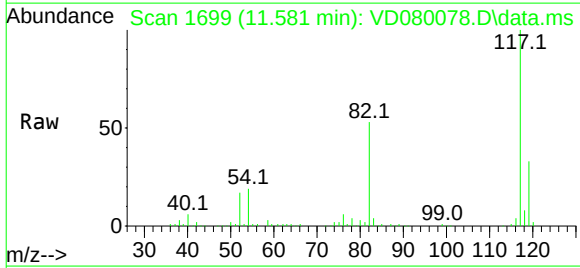
Tgt Ion:117 Resp: 320832

Ion Ratio Lower Upper

117 100

82 53.0 45.8 68.6

119 32.6 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. 0.000 min

Lab File: VD080078.D

Acq: 18 Nov 2024 19:22

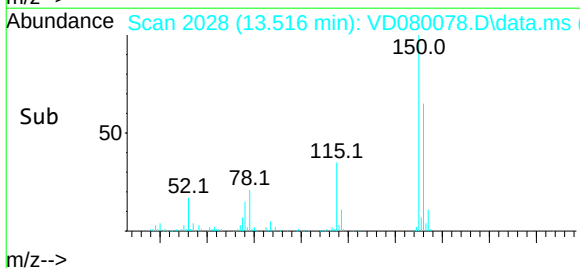
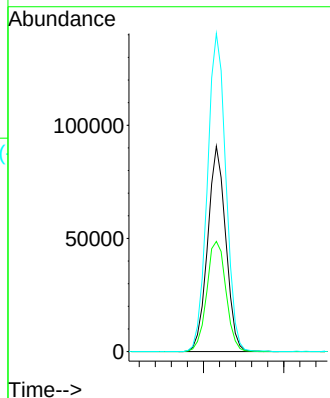
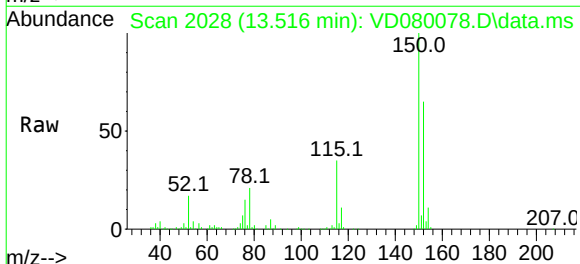
Tgt Ion:152 Resp: 141967

Ion Ratio Lower Upper

152 100

115 57.0 28.9 86.8

150 158.3 0.0 354.8



Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-007	SDG No.:	P4860
Lab Sample ID:	P4860-08	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	98
Sample Wt/Vol:	6.33 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080079.D	1		11/18/24 19:49	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	4.00	ug/Kg
74-87-3	Chloromethane	0.93	U	0.93	4.00	ug/Kg
75-01-4	Vinyl Chloride	0.62	U	0.62	4.00	ug/Kg
74-83-9	Bromomethane	0.83	U	0.83	4.00	ug/Kg
75-00-3	Chloroethane	0.81	U	0.81	4.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.73	U	0.73	4.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.86	U	0.86	4.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.63	U	0.63	4.00	ug/Kg
67-64-1	Acetone	5.00	U	5.00	20.2	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.54	U	0.54	4.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.00	ug/Kg
75-09-2	Methylene Chloride	2.70	U	2.70	8.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.68	U	0.68	4.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.51	U	0.51	4.00	ug/Kg
110-82-7	Cyclohexane	0.56	U	0.56	4.00	ug/Kg
78-93-3	2-Butanone	4.60	U	4.60	20.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.70	U	0.70	4.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.49	U	0.49	4.00	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	4.00	ug/Kg
67-66-3	Chloroform	0.54	U	0.54	4.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	4.00	ug/Kg
108-87-2	Methylcyclohexane	0.70	U	0.70	4.00	ug/Kg
71-43-2	Benzene	0.58	U	0.58	4.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.49	U	0.49	4.00	ug/Kg
79-01-6	Trichloroethene	0.60	U	0.60	4.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.53	U	0.53	4.00	ug/Kg
75-27-4	Bromodichloromethane	0.45	U	0.45	4.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.50	U	3.50	20.2	ug/Kg
108-88-3	Toluene	0.54	U	0.54	4.00	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-007	SDG No.:	P4860
Lab Sample ID:	P4860-08	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	98
Sample Wt/Vol:	6.33 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080079.D	1		11/18/24 19:49	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.48	U	0.48	4.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.46	U	0.46	4.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	4.00	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	20.2	ug/Kg
124-48-1	Dibromochloromethane	0.52	U	0.52	4.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.64	U	0.64	4.00	ug/Kg
127-18-4	Tetrachloroethene	0.72	U	0.72	4.00	ug/Kg
108-90-7	Chlorobenzene	0.60	U	0.60	4.00	ug/Kg
100-41-4	Ethyl Benzene	0.50	U	0.50	4.00	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.10	ug/Kg
95-47-6	o-Xylene	0.56	U	0.56	4.00	ug/Kg
100-42-5	Styrene	0.48	U	0.48	4.00	ug/Kg
75-25-2	Bromoform	0.65	U	0.65	4.00	ug/Kg
98-82-8	Isopropylbenzene	0.54	U	0.54	4.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.89	U	0.89	4.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.60	U	0.60	4.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.64	U	0.64	4.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.48	U	0.48	4.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.64	U	0.64	4.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.63	U	0.63	4.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.3		70 (50) - 130 (163)	87%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		70 (54) - 130 (147)	98%	SPK: 50
2037-26-5	Toluene-d8	45.2		70 (58) - 130 (134)	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.1		70 (29) - 130 (146)	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	217000	7.875			
540-36-3	1,4-Difluorobenzene	353000	8.781			
3114-55-4	Chlorobenzene-d5	326000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.516			

Report of Analysis

Client:	Tetra Tech		Date Collected:	11/14/24
Project:	Ocean County Landfill 2024		Date Received:	11/14/24
Client Sample ID:	PH2-BOT-007		SDG No.:	P4860
Lab Sample ID:	P4860-08		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	98
Sample Wt/Vol:	6.33	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080079.D	1		11/18/24 19:49	VD111824

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_D\Data\VD111824\
Data File : VD080079.D
Acq On : 18 Nov 2024 19:49
Operator : RP/MD
Sample : P4860-08
Misc : 6.33G/5ml/MSVOA_D/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
PH2-BOT-007

Quant Time: Nov 19 04:51:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	216854	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.781	114	352745	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	326096	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	151026	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	96719	43.319	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	86.640%
35) Dibromofluoromethane	7.810	113	115447	49.176	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.360%
50) Toluene-d8	10.269	98	399589	45.161	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	90.320%
62) 4-Bromofluorobenzene	12.575	95	122092	42.057	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	84.120%

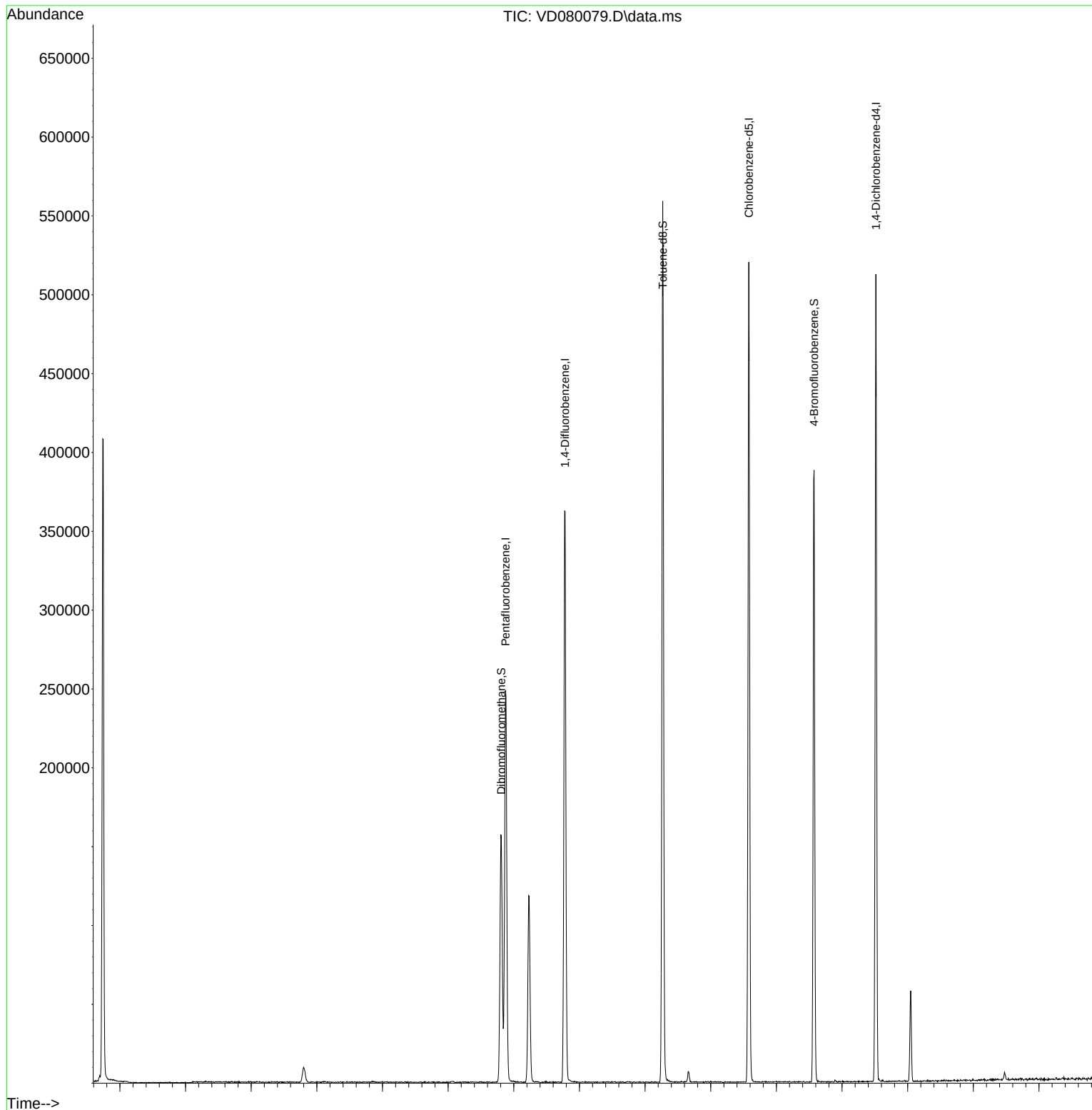
Target Compounds	Qvalue

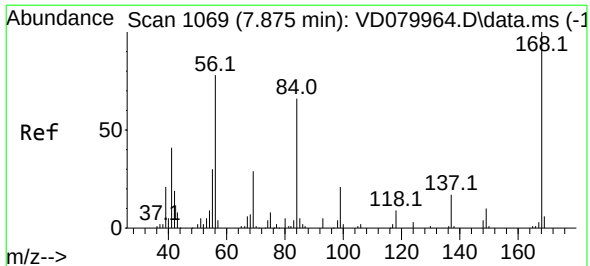
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080079.D
Acq On : 18 Nov 2024 19:49
Operator : RP/MD
Sample : P4860-08
Misc : 6.33G/5ml/MSVOA_D/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
PH2-BOT-007

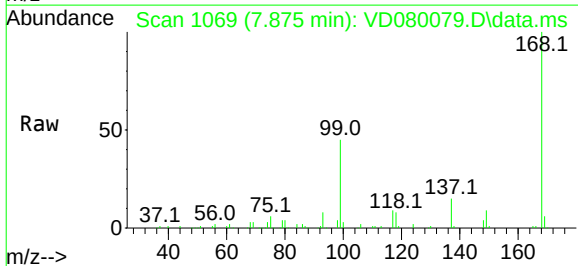
Quant Time: Nov 19 04:51:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



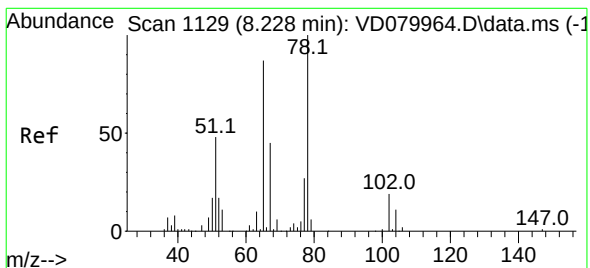
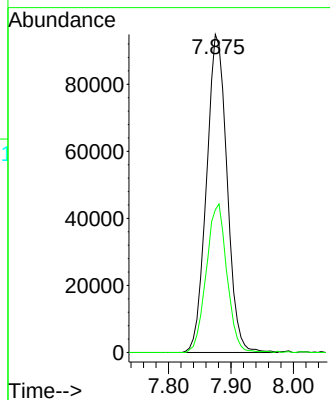
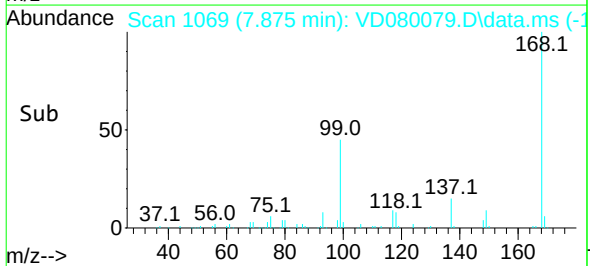


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.000 min
Lab File: VD080079.D
Acq: 18 Nov 2024 19:49

Instrument :
MSVOA_D
ClientSampleId :
PH2-BOT-007

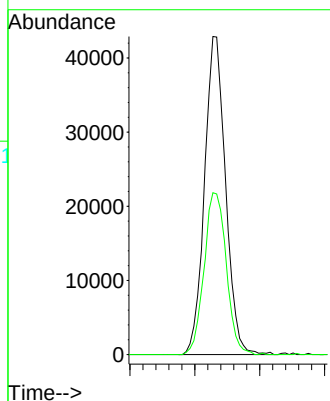
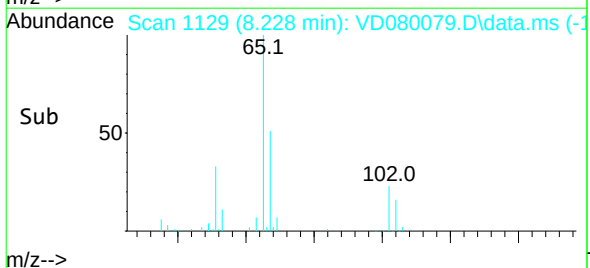
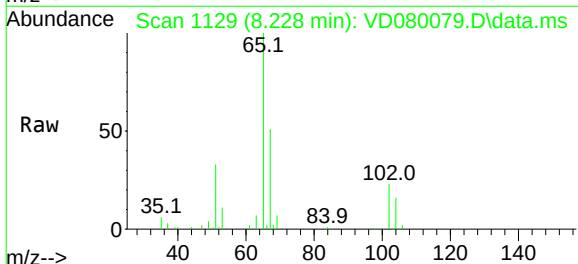


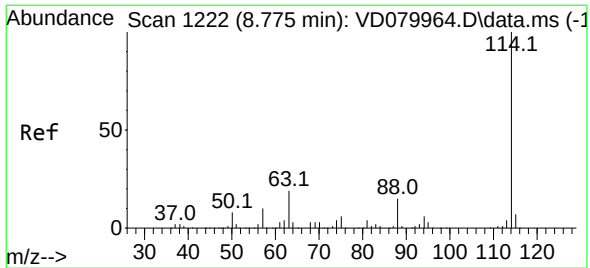
Tgt Ion:168 Resp: 216854
Ion Ratio Lower Upper
168 100
99 44.9 46.0 69.0#



#33
1,2-Dichloroethane-d4
Concen: 43.319 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VD080079.D
Acq: 18 Nov 2024 19:49

Tgt Ion: 65 Resp: 96719
Ion Ratio Lower Upper
65 100
67 53.6 0.0 109.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 12

Delta R.T. 0.006 min

Lab File: VD080079.D

Acq: 18 Nov 2024 19:49

Instrument :

MSVOA_D

ClientSampleId :

PH2-BOT-007

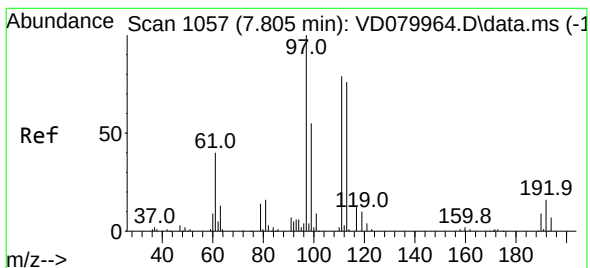
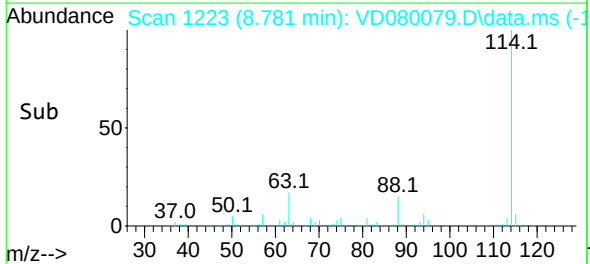
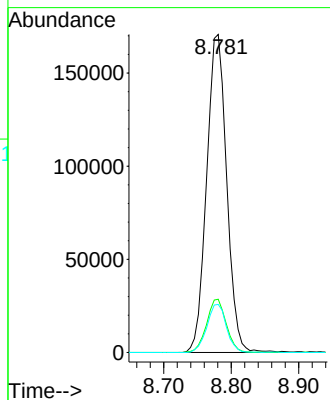
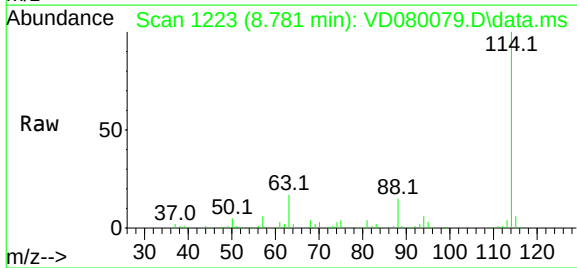
Tgt Ion:114 Resp: 352745

Ion Ratio Lower Upper

114 100

63 16.7 0.0 38.8

88 15.1 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.176 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.005 min

Lab File: VD080079.D

Acq: 18 Nov 2024 19:49

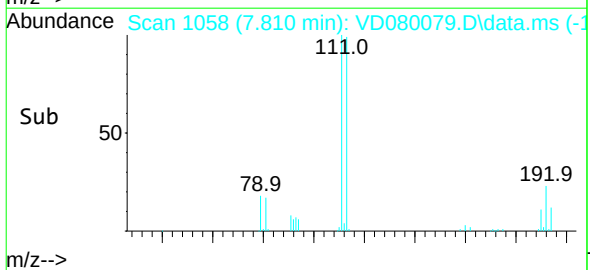
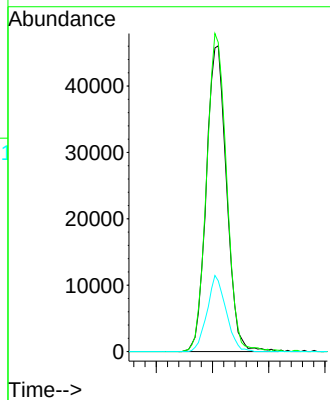
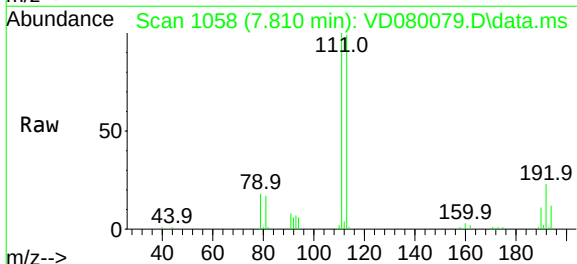
Tgt Ion:113 Resp: 115447

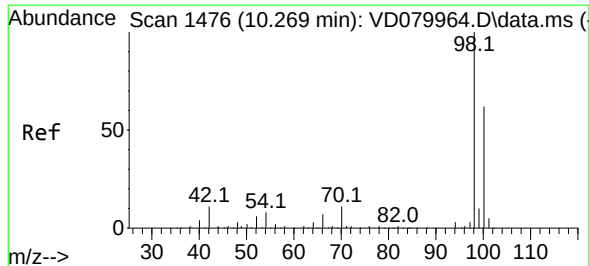
Ion Ratio Lower Upper

113 100

111 102.5 82.5 123.7

192 23.3 16.6 25.0





#50

Toluene-d8

Concen: 45.161 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. -0.000 min

Lab File: VD080079.D

Acq: 18 Nov 2024 19:49

Instrument :

MSVOA_D

ClientSampleId :

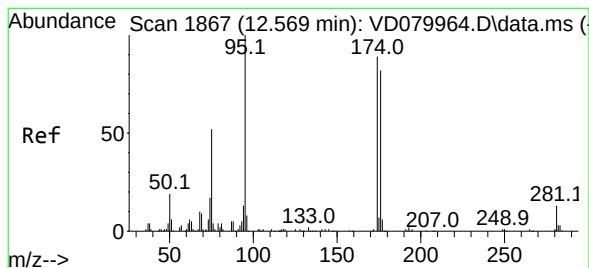
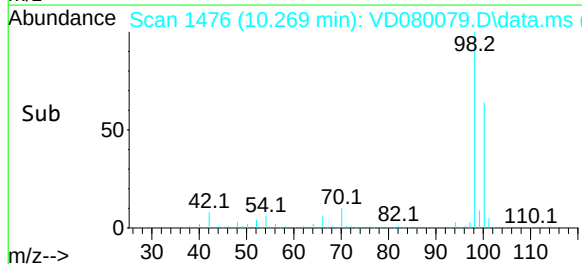
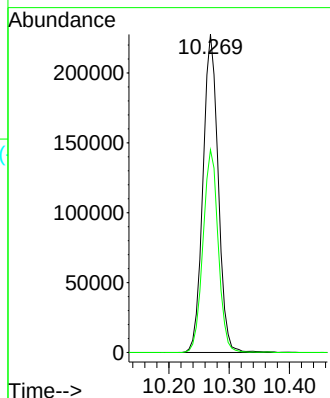
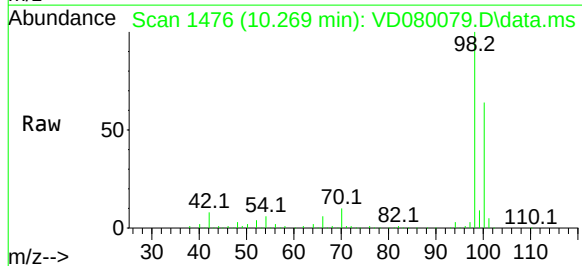
PH2-BOT-007

Tgt Ion: 98 Resp: 399589

Ion Ratio Lower Upper

98 100

100 63.6 50.2 75.4



#62

4-Bromofluorobenzene

Concen: 42.057 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. 0.006 min

Lab File: VD080079.D

Acq: 18 Nov 2024 19:49

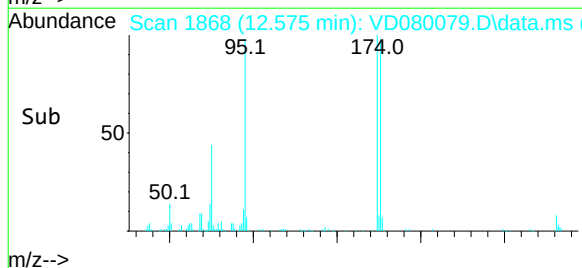
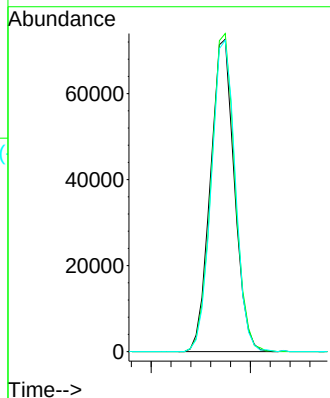
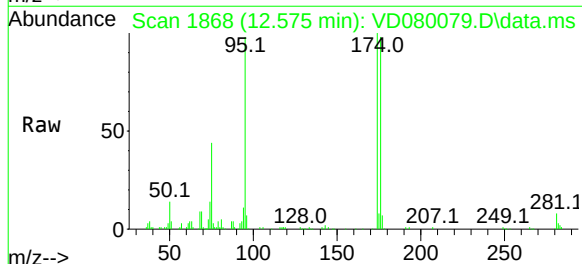
Tgt Ion: 95 Resp: 122092

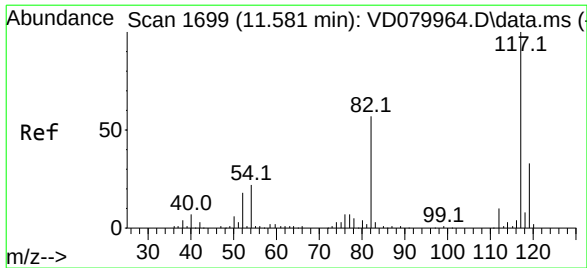
Ion Ratio Lower Upper

95 100

174 100.7 0.0 173.4

176 99.1 0.0 166.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.581 min Scan# 1699

Delta R.T. -0.000 min

Lab File: VD080079.D

Acq: 18 Nov 2024 19:49

Instrument :

MSVOA_D

ClientSampleId :

PH2-BOT-007

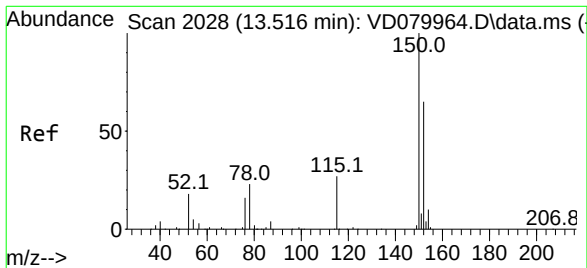
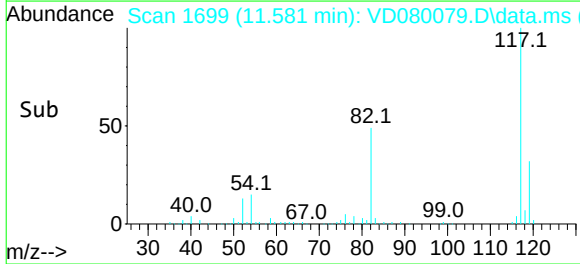
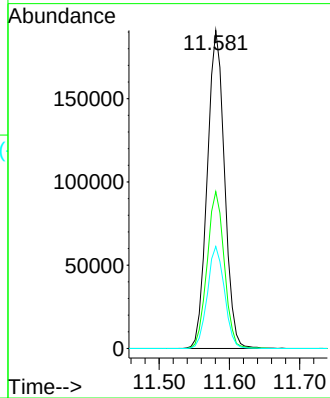
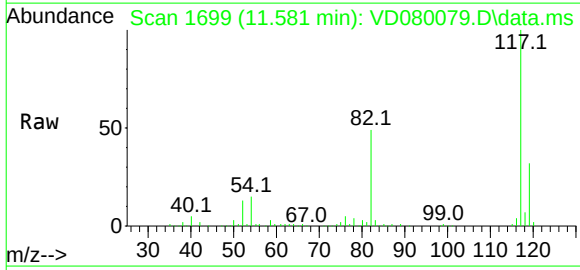
Tgt Ion:117 Resp: 326096

Ion Ratio Lower Upper

117 100

82 49.3 45.8 68.6

119 32.1 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. -0.000 min

Lab File: VD080079.D

Acq: 18 Nov 2024 19:49

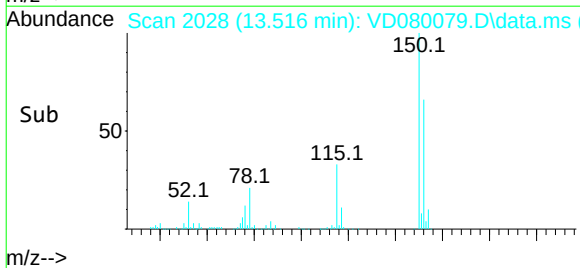
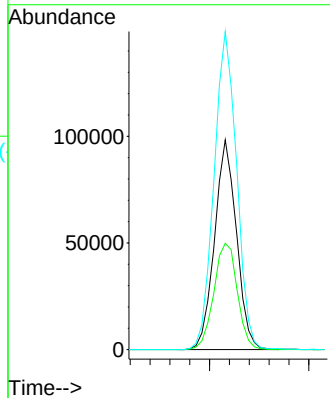
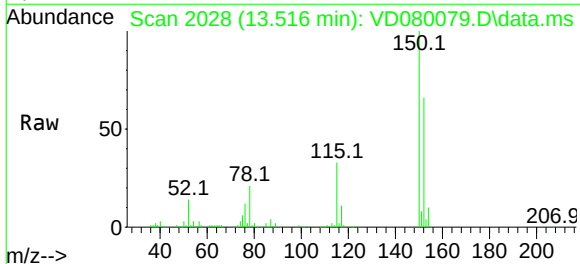
Tgt Ion:152 Resp: 151026

Ion Ratio Lower Upper

152 100

115 54.1 28.9 86.8

150 156.4 0.0 354.8



Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-006	SDG No.:	P4860
Lab Sample ID:	P4860-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	97.5
Sample Wt/Vol:	6.28	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
VY020390.D	1		11/21/24 16:30	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	4.10	ug/Kg
74-87-3	Chloromethane	0.95	U	0.95	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.63	U	0.63	4.10	ug/Kg
74-83-9	Bromomethane	0.84	U	0.84	4.10	ug/Kg
75-00-3	Chloroethane	0.82	U	0.82	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	0.74	U	0.74	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.87	U	0.87	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.64	U	0.64	4.10	ug/Kg
67-64-1	Acetone	5.10	U	5.10	20.4	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.55	U	0.55	4.10	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.10	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	8.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.69	U	0.69	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.51	U	0.51	4.10	ug/Kg
110-82-7	Cyclohexane	0.56	U	0.56	4.10	ug/Kg
78-93-3	2-Butanone	4.60	U	4.60	20.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.71	U	0.71	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	4.10	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	4.10	ug/Kg
67-66-3	Chloroform	0.55	U	0.55	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.64	U	0.64	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.71	U	0.71	4.10	ug/Kg
71-43-2	Benzene	0.59	U	0.59	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.50	U	0.50	4.10	ug/Kg
79-01-6	Trichloroethene	0.61	U	0.61	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.54	U	0.54	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.46	U	0.46	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	20.4	ug/Kg
108-88-3	Toluene	0.55	U	0.55	4.10	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-006	SDG No.:	P4860
Lab Sample ID:	P4860-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	97.5
Sample Wt/Vol:	6.28 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
VY020390.D	1		11/21/24 16:30	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.49	U	0.49	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.47	U	0.47	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.69	U	0.69	4.10	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	20.4	ug/Kg
124-48-1	Dibromochloromethane	0.53	U	0.53	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.65	U	0.65	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.73	U	0.73	4.10	ug/Kg
108-90-7	Chlorobenzene	0.60	U	0.60	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.51	U	0.51	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.20	ug/Kg
95-47-6	o-Xylene	0.57	U	0.57	4.10	ug/Kg
100-42-5	Styrene	0.49	U	0.49	4.10	ug/Kg
75-25-2	Bromoform	0.66	U	0.66	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.55	U	0.55	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.90	U	0.90	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.60	U	0.60	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.65	U	0.65	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.48	U	0.48	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.65	U	0.65	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.64	U	0.64	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.4		70 (50) - 130 (163)	115%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	48.3		70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.6		70 (29) - 130 (146)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	141000	7.707			
540-36-3	1,4-Difluorobenzene	274000	8.616			
3114-55-4	Chlorobenzene-d5	262000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	106000	13.346			

Report of Analysis

Client:	Tetra Tech		Date Collected:	11/14/24	
Project:	Ocean County Landfill 2024		Date Received:	11/14/24	
Client Sample ID:	PH2-BOT-006		SDG No.:	P4860	
Lab Sample ID:	P4860-09		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	97.5	
Sample Wt/Vol:	6.28	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
VY020390.D	1		11/21/24 16:30	VY112124

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\VY112124\
Data File : VY020390.D
Acq On : 21 Nov 2024 16:30
Operator : SY/MD
Sample : P4860-09
Misc : 6.28g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-006

Quant Time: Nov 22 00:26:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	140871	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	273565	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	262252	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	106466	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	92933	57.421	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	114.840%
35) Dibromofluoromethane	7.634	113	88559	50.485	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.960%
50) Toluene-d8	10.103	98	333481	48.260	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.520%
62) 4-Bromofluorobenzene	12.408	95	116929	52.638	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	105.280%

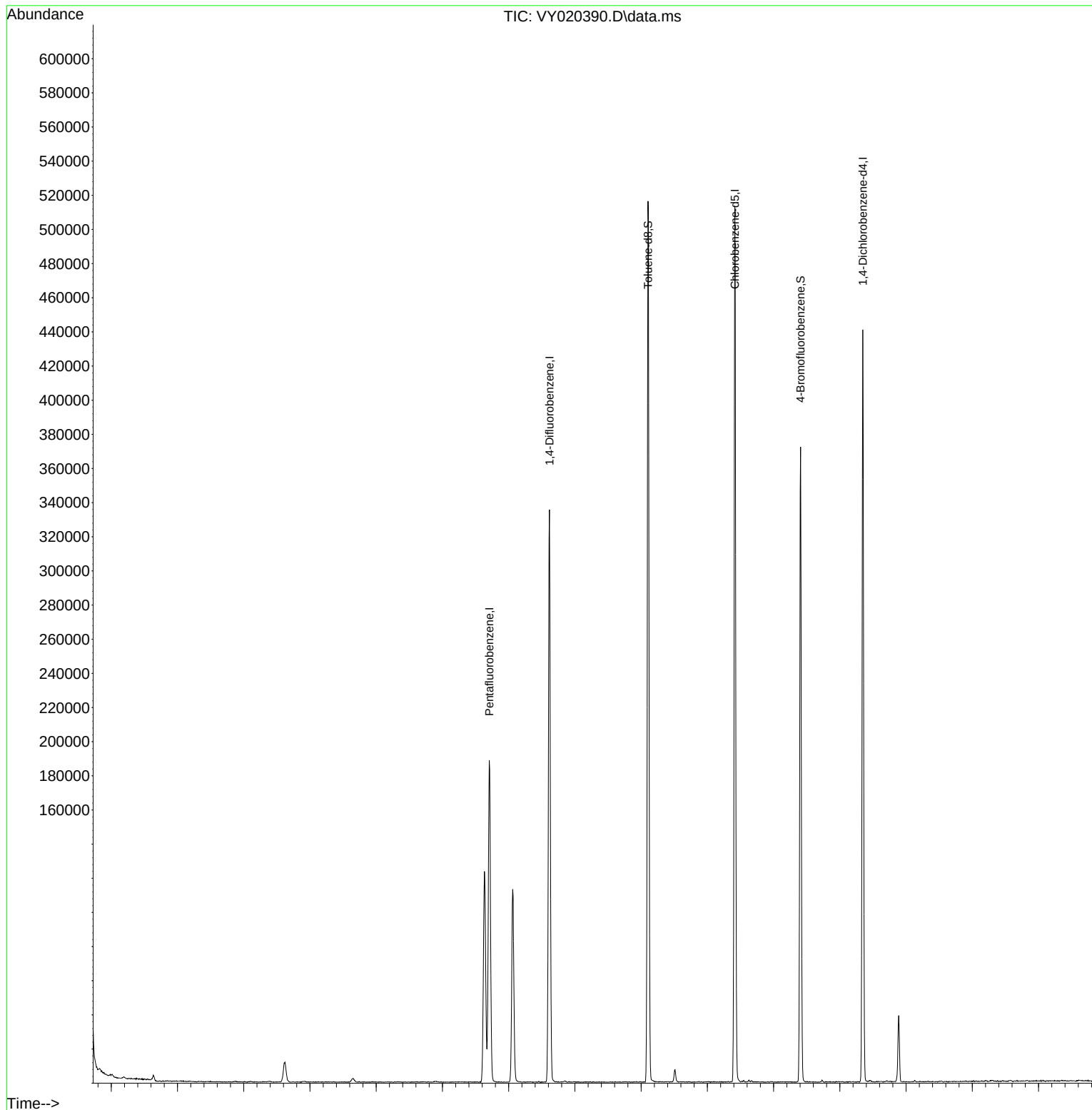
Target Compounds	Qvalue

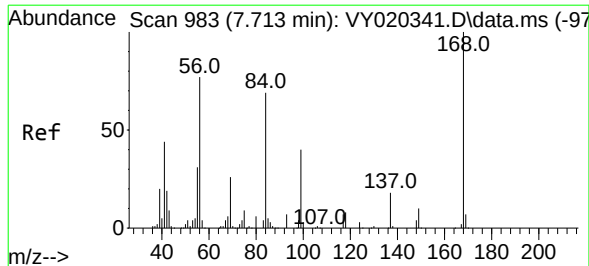
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020390.D
Acq On : 21 Nov 2024 16:30
Operator : SY/MD
Sample : P4860-09
Misc : 6.28g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-006

Quant Time: Nov 22 00:26:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

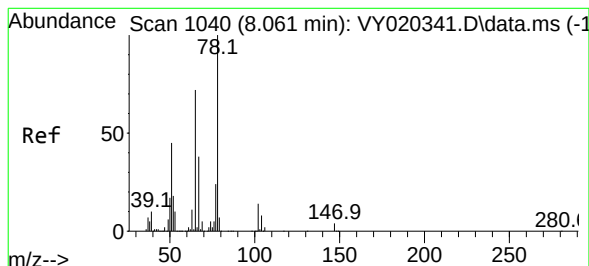
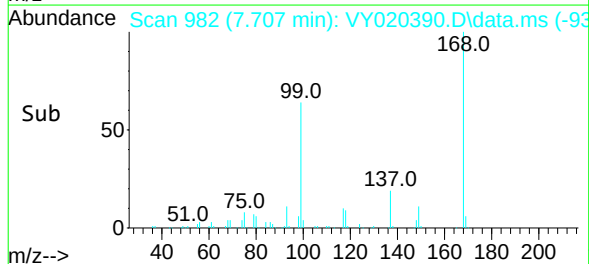
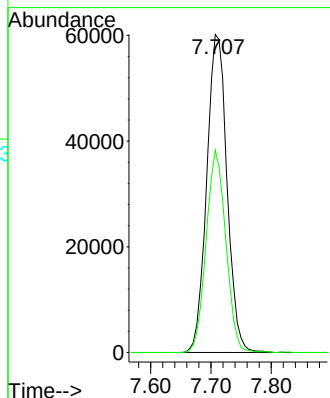
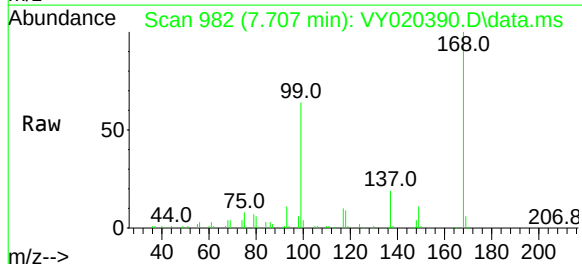




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 983
Delta R.T. -0.006 min
Lab File: VY020390.D
Acq: 21 Nov 2024 16:30

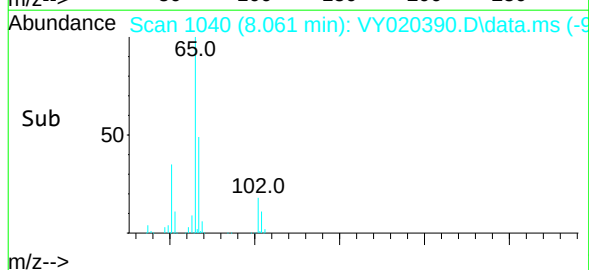
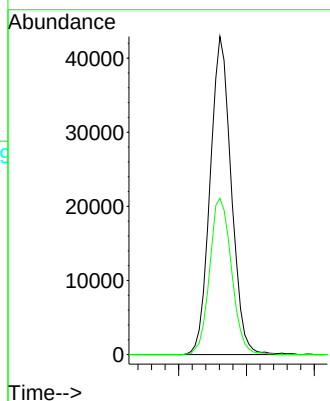
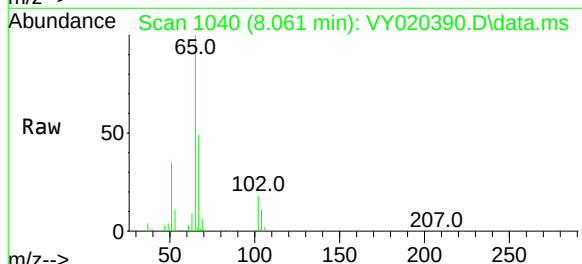
Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-006

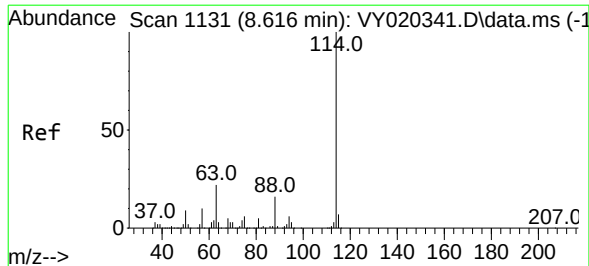
Tgt Ion:168 Resp: 140871
Ion Ratio Lower Upper
168 100
99 63.5 46.6 69.8



#33
1,2-Dichloroethane-d4
Concen: 57.421 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020390.D
Acq: 21 Nov 2024 16:30

Tgt Ion: 65 Resp: 92933
Ion Ratio Lower Upper
65 100
67 50.9 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY020390.D

Acq: 21 Nov 2024 16:30

Instrument :

MSVOA_Y

ClientSampleId :

PH2-BOT-006

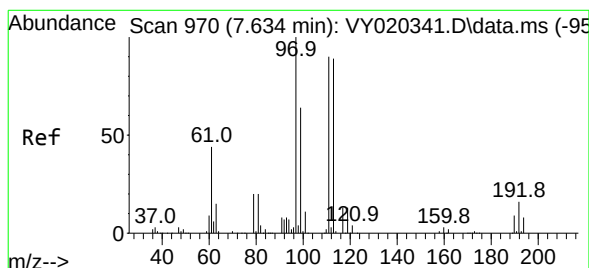
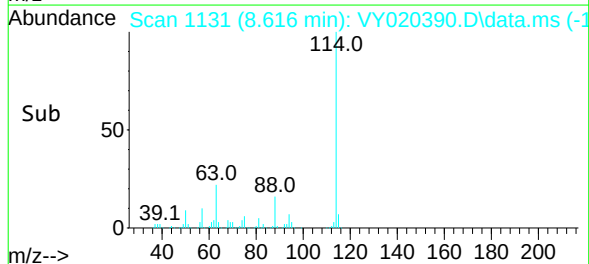
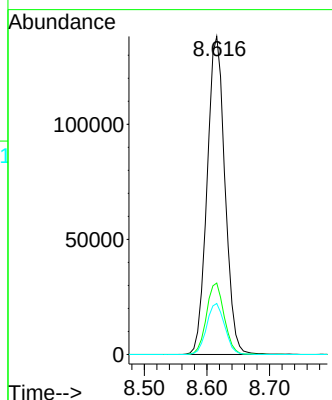
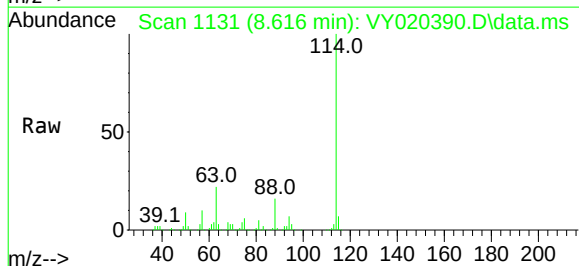
Tgt Ion:114 Resp: 273565

Ion Ratio Lower Upper

114 100

63 22.5 0.0 44.8

88 16.0 0.0 32.0



#35

Dibromofluoromethane

Concen: 50.485 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY020390.D

Acq: 21 Nov 2024 16:30

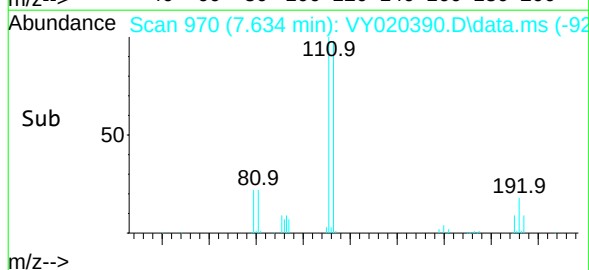
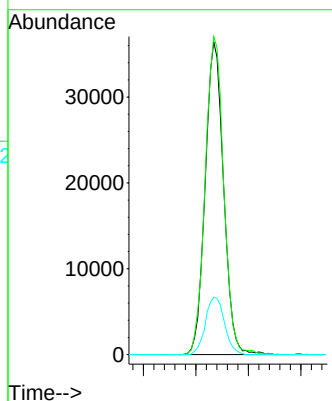
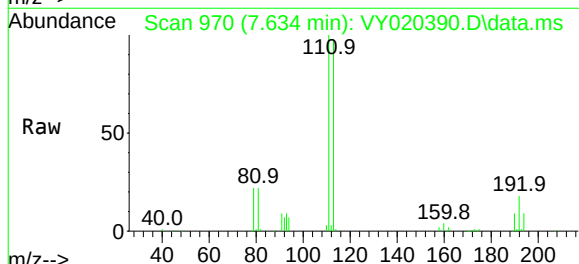
Tgt Ion:113 Resp: 88559

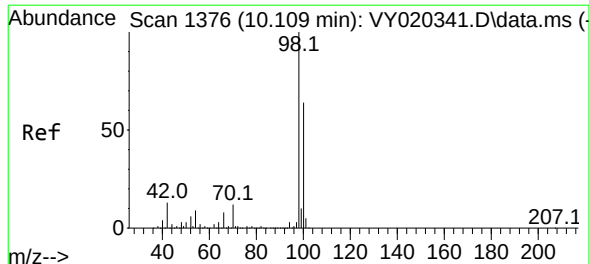
Ion Ratio Lower Upper

113 100

111 102.6 81.4 122.0

192 19.1 15.1 22.7





#50

Toluene-d8

Concen: 48.260 ug/l

RT: 10.103 min Scan# 1376

Delta R.T. -0.006 min

Lab File: VY020390.D

Acq: 21 Nov 2024 16:30

Instrument :

MSVOA_Y

ClientSampleId :

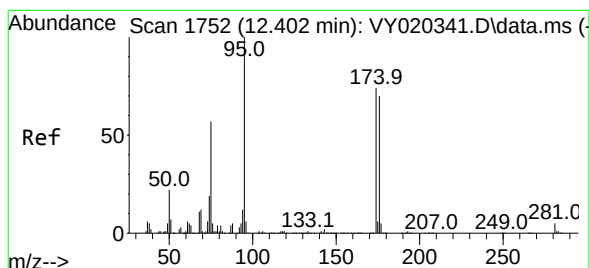
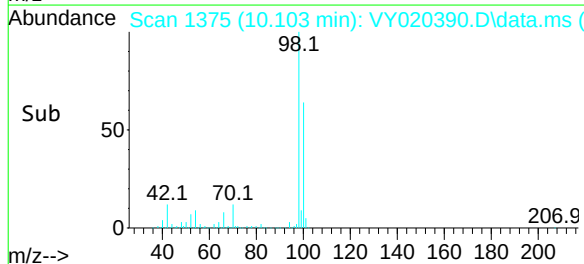
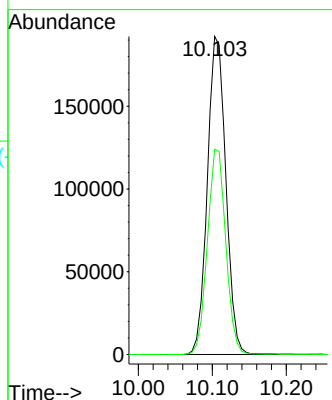
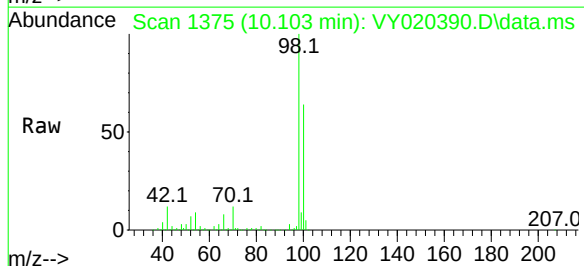
PH2-BOT-006

Tgt Ion: 98 Resp: 333481

Ion Ratio Lower Upper

98 100

100 64.2 51.3 76.9



#62

4-Bromofluorobenzene

Concen: 52.638 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VY020390.D

Acq: 21 Nov 2024 16:30

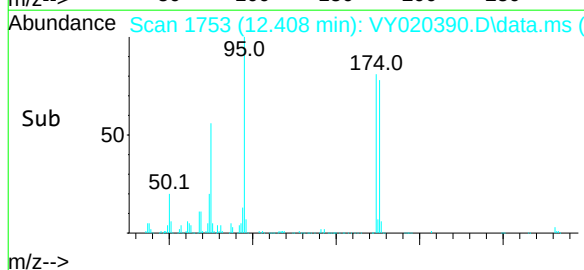
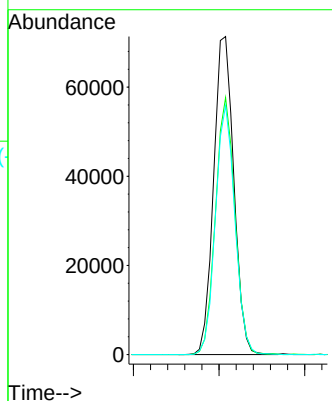
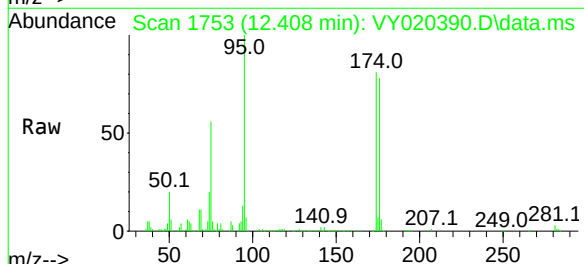
Tgt Ion: 95 Resp: 116929

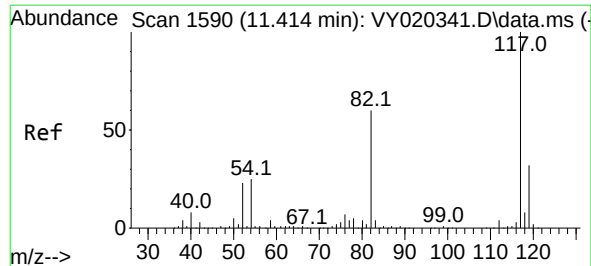
Ion Ratio Lower Upper

95 100

174 77.8 0.0 156.8

176 75.2 0.0 152.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY020390.D

Acq: 21 Nov 2024 16:30

Instrument :

MSVOA_Y

ClientSampleId :

PH2-BOT-006

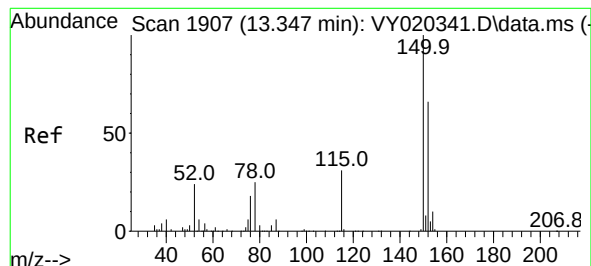
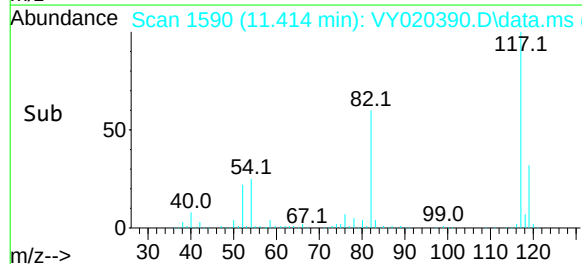
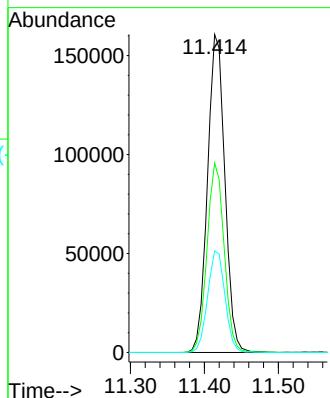
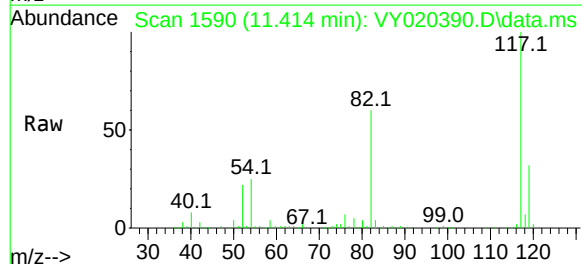
Tgt Ion:117 Resp: 262252

Ion Ratio Lower Upper

117 100

82 59.6 48.2 72.4

119 31.9 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY020390.D

Acq: 21 Nov 2024 16:30

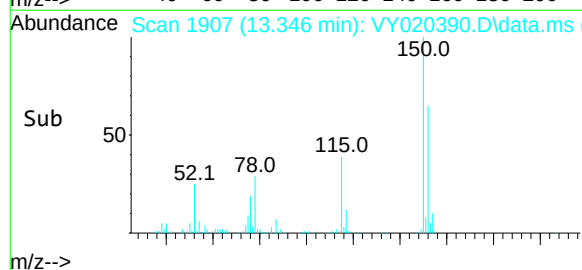
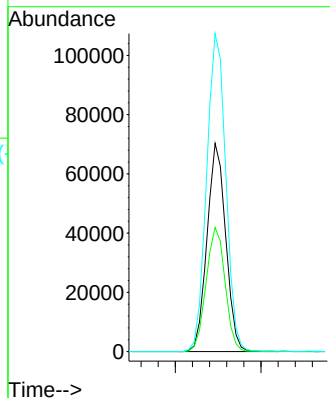
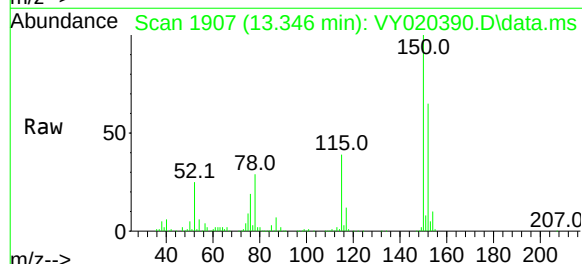
Tgt Ion:152 Resp: 106466

Ion Ratio Lower Upper

152 100

115 60.5 30.0 90.0

150 156.6 0.0 348.2



Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-005	SDG No.:	P4860
Lab Sample ID:	P4860-10	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	97.6
Sample Wt/Vol:	5.93	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020389.D	1		11/21/24 16:06	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	4.30	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.67	U	0.67	4.30	ug/Kg
74-83-9	Bromomethane	0.89	U	0.89	4.30	ug/Kg
75-00-3	Chloroethane	0.87	U	0.87	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	0.79	U	0.79	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.92	U	0.92	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.67	U	0.67	4.30	ug/Kg
67-64-1	Acetone	5.40	U	5.40	21.6	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.58	U	0.58	4.30	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	4.30	ug/Kg
75-09-2	Methylene Chloride	2.90	U	2.90	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.73	U	0.73	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.54	U	0.54	4.30	ug/Kg
110-82-7	Cyclohexane	0.60	U	0.60	4.30	ug/Kg
78-93-3	2-Butanone	4.90	U	4.90	21.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.75	U	0.75	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.53	U	0.53	4.30	ug/Kg
74-97-5	Bromochloromethane	2.10	U	2.10	4.30	ug/Kg
67-66-3	Chloroform	0.58	U	0.58	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.67	U	0.67	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.75	U	0.75	4.30	ug/Kg
71-43-2	Benzene	0.62	U	0.62	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.53	U	0.53	4.30	ug/Kg
79-01-6	Trichloroethene	0.65	U	0.65	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.57	U	0.57	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.48	U	0.48	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	21.6	ug/Kg
108-88-3	Toluene	0.58	U	0.58	4.30	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-005	SDG No.:	P4860
Lab Sample ID:	P4860-10	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	97.6
Sample Wt/Vol:	5.93	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
VY020389.D	1		11/21/24 16:06	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.52	U	0.52	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.49	U	0.49	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.73	U	0.73	4.30	ug/Kg
591-78-6	2-Hexanone	4.10	U	4.10	21.6	ug/Kg
124-48-1	Dibromochloromethane	0.56	U	0.56	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.68	U	0.68	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.77	U	0.77	4.30	ug/Kg
108-90-7	Chlorobenzene	0.64	U	0.64	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.54	U	0.54	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	8.60	ug/Kg
95-47-6	o-Xylene	0.60	U	0.60	4.30	ug/Kg
100-42-5	Styrene	0.52	U	0.52	4.30	ug/Kg
75-25-2	Bromoform	0.70	U	0.70	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.58	U	0.58	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	0.95	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.64	U	0.64	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.69	U	0.69	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.51	U	0.51	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.68	U	0.68	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.67	U	0.67	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.6		70 (50) - 130 (163)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		70 (54) - 130 (147)	97%	SPK: 50
2037-26-5	Toluene-d8	47.9		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		70 (29) - 130 (146)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	141000	7.713			
540-36-3	1,4-Difluorobenzene	270000	8.616			
3114-55-4	Chlorobenzene-d5	252000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	102000	13.346			

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-005	SDG No.:	P4860
Lab Sample ID:	P4860-10	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	97.6
Sample Wt/Vol:	5.93	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020389.D	1		11/21/24 16:06	VY112124

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\VY112124\
Data File : VY020389.D
Acq On : 21 Nov 2024 16:06
Operator : SY/MD
Sample : P4860-10
Misc : 5.93g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-005

Quant Time: Nov 22 00:26:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	140636	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	270374	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	252016	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	101642	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	85018	52.618	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	105.240%
35) Dibromofluoromethane	7.640	113	84394	48.678	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.360%
50) Toluene-d8	10.103	98	327171	47.906	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	95.820%
62) 4-Bromofluorobenzene	12.408	95	110710	50.427	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	100.860%

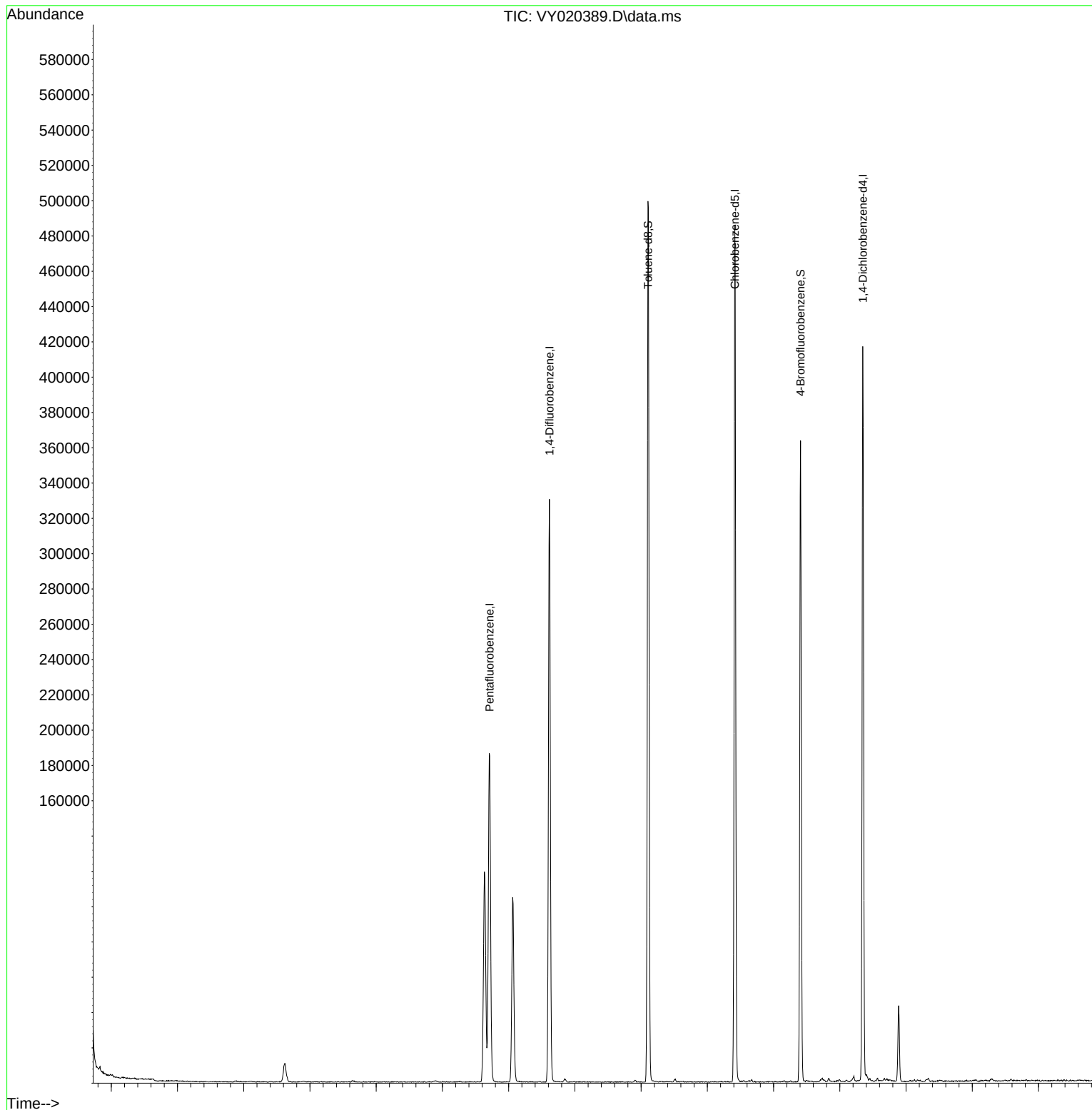
Target Compounds	Qvalue

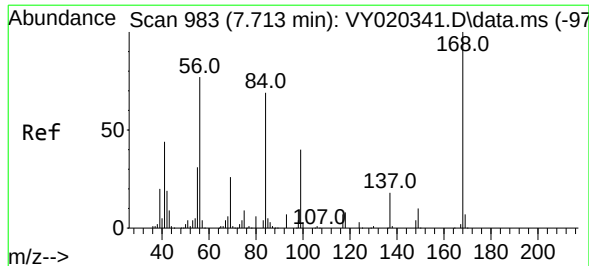
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020389.D
Acq On : 21 Nov 2024 16:06
Operator : SY/MD
Sample : P4860-10
Misc : 5.93g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-005

Quant Time: Nov 22 00:26:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

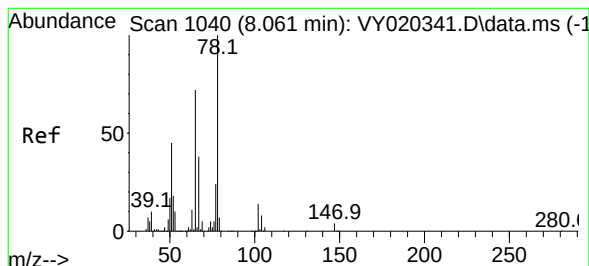
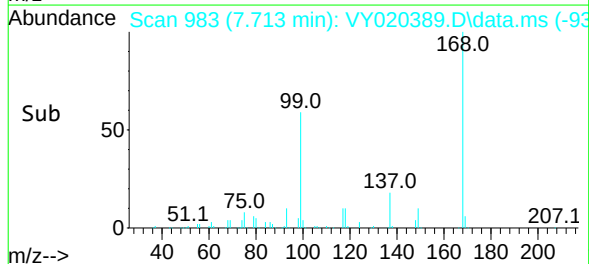
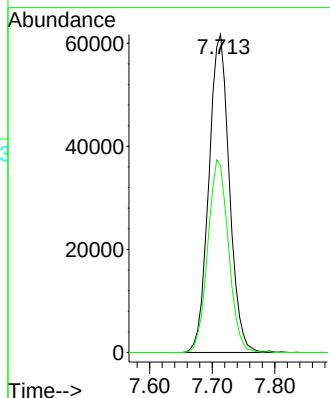
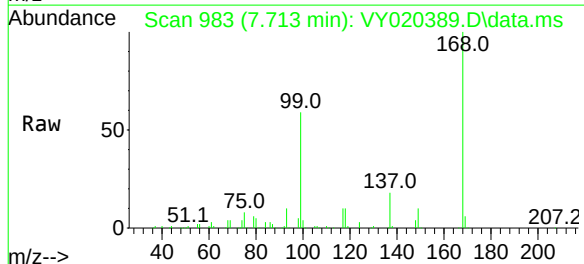




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY020389.D
Acq: 21 Nov 2024 16:06

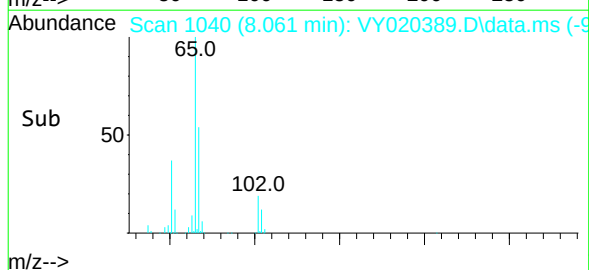
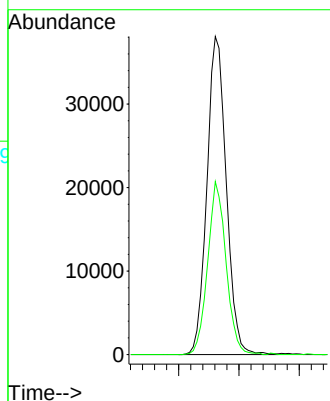
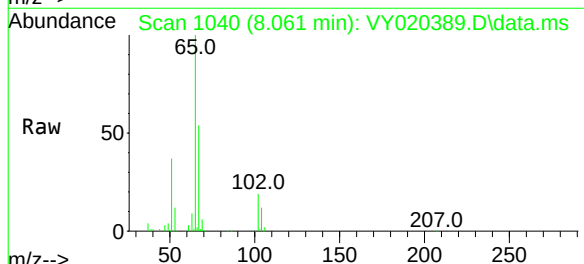
Instrument :
MSVOA_Y
ClientSampleId :
PH2-BOT-005

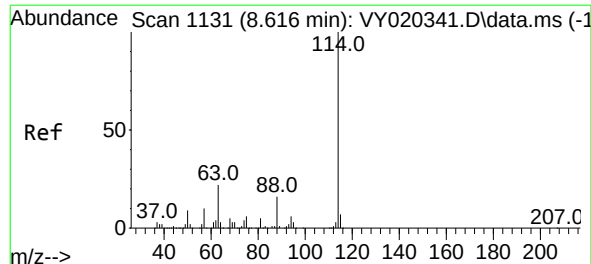
Tgt Ion:168 Resp: 140636
Ion Ratio Lower Upper
168 100
99 58.7 46.6 69.8



#33
1,2-Dichloroethane-d4
Concen: 52.618 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020389.D
Acq: 21 Nov 2024 16:06

Tgt Ion: 65 Resp: 85018
Ion Ratio Lower Upper
65 100
67 51.6 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY020389.D

Acq: 21 Nov 2024 16:06

Instrument :

MSVOA_Y

ClientSampleId :

PH2-BOT-005

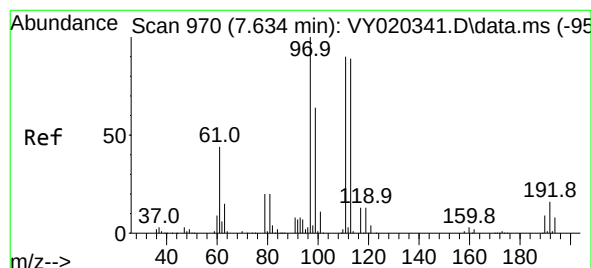
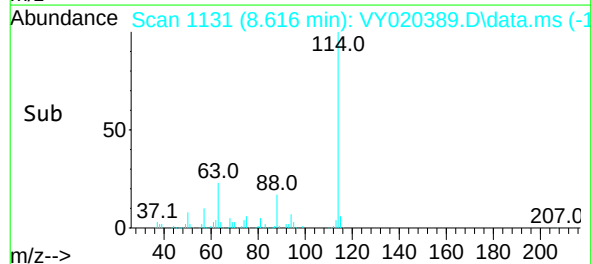
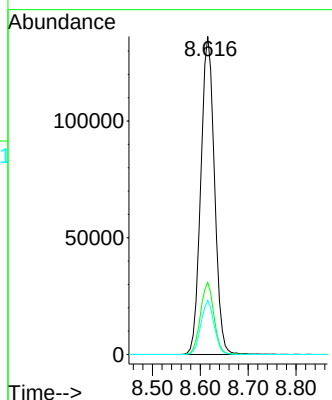
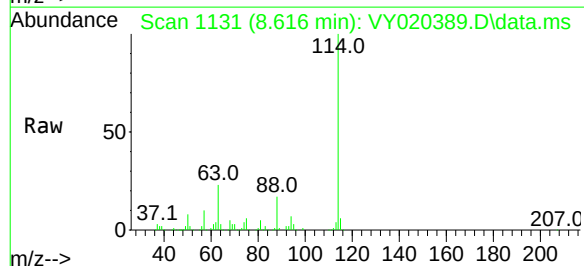
Tgt Ion:114 Resp: 270374

Ion Ratio Lower Upper

114 100

63 22.6 0.0 44.8

88 17.0 0.0 32.0



#35

Dibromofluoromethane

Concen: 48.678 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY020389.D

Acq: 21 Nov 2024 16:06

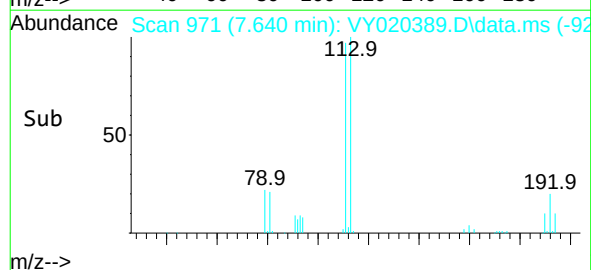
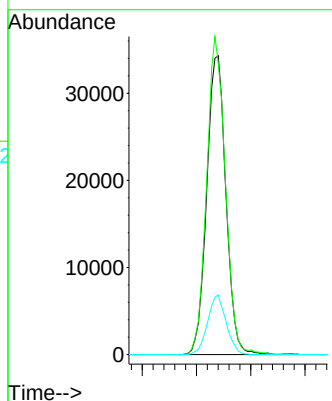
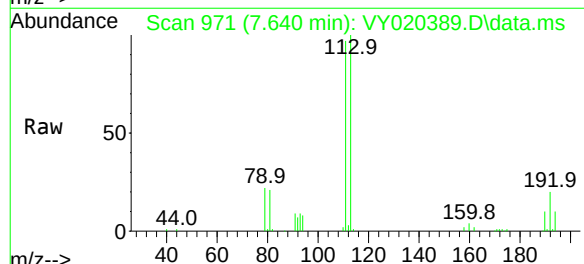
Tgt Ion:113 Resp: 84394

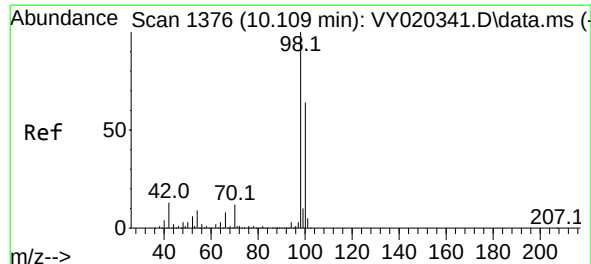
Ion Ratio Lower Upper

113 100

111 104.0 81.4 122.0

192 19.3 15.1 22.7





#50

Toluene-d8

Concen: 47.906 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY020389.D

Acq: 21 Nov 2024 16:06

Instrument :

MSVOA_Y

ClientSampleId :

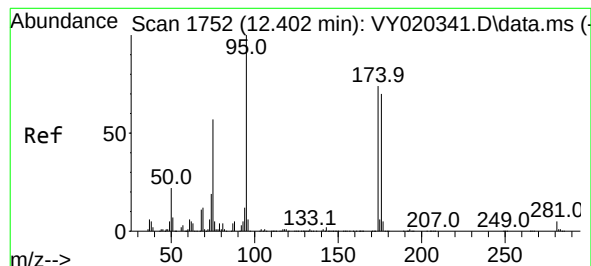
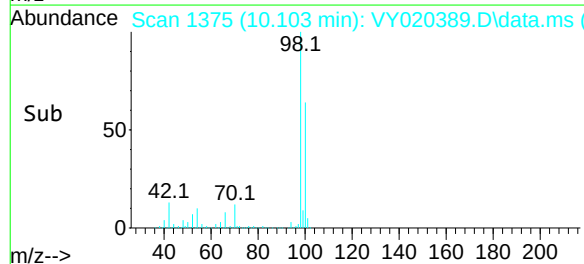
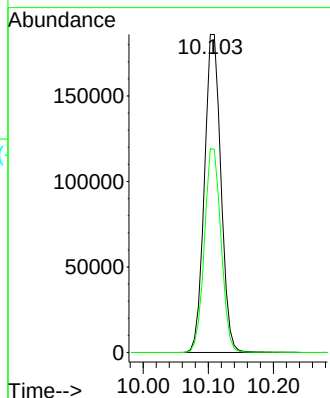
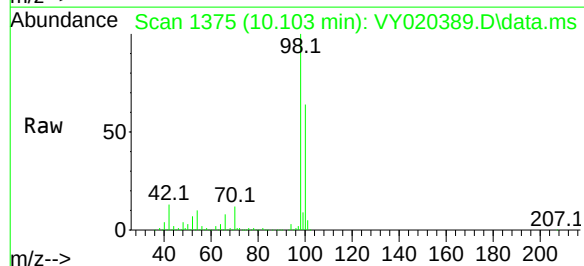
PH2-BOT-005

Tgt Ion: 98 Resp: 327171

Ion Ratio Lower Upper

98 100

100 64.5 51.3 76.9



#62

4-Bromofluorobenzene

Concen: 50.427 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VY020389.D

Acq: 21 Nov 2024 16:06

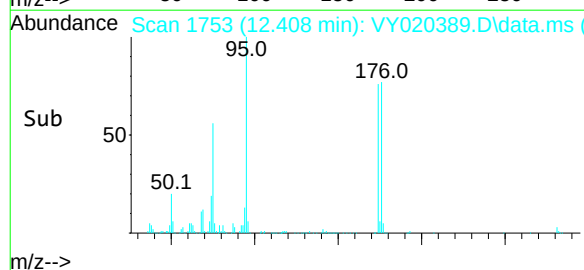
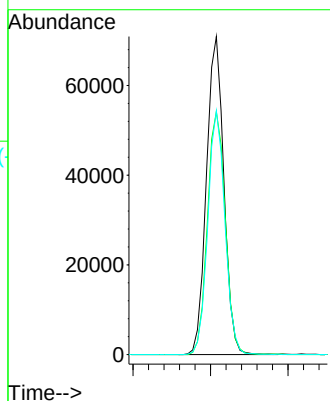
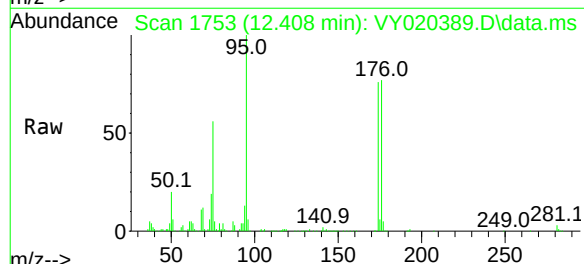
Tgt Ion: 95 Resp: 110710

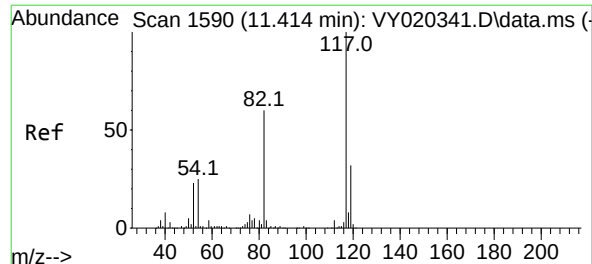
Ion Ratio Lower Upper

95 100

174 78.3 0.0 156.8

176 75.3 0.0 152.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY020389.D

Acq: 21 Nov 2024 16:06

Instrument :

MSVOA_Y

ClientSampleId :

PH2-BOT-005

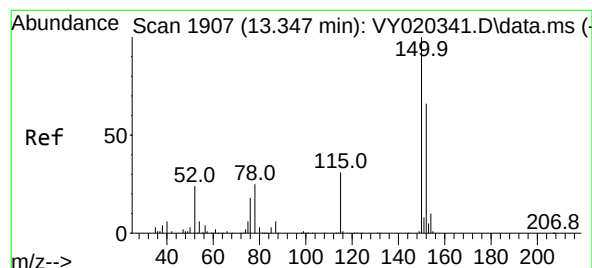
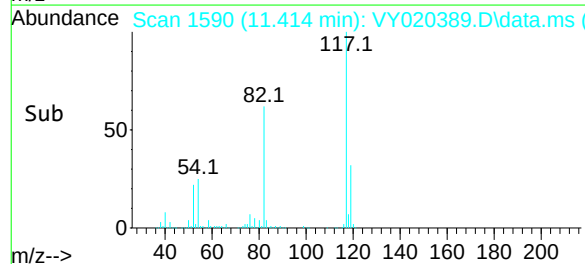
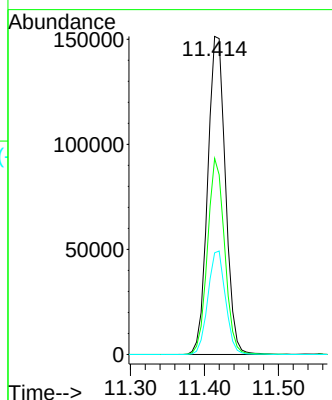
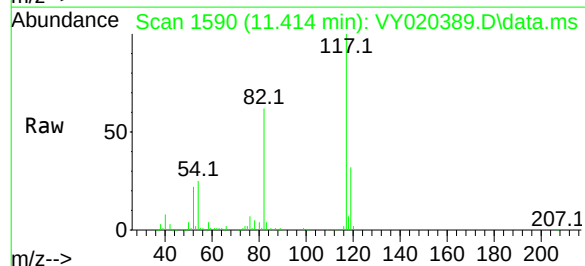
Tgt Ion:117 Resp: 252016

Ion Ratio Lower Upper

117 100

82 61.7 48.2 72.4

119 32.0 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY020389.D

Acq: 21 Nov 2024 16:06

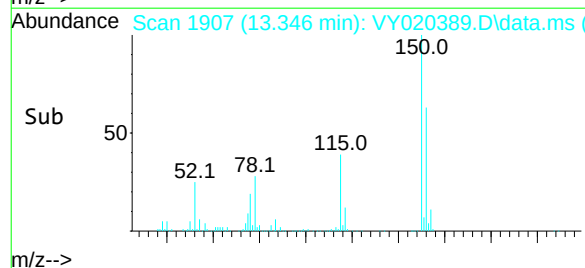
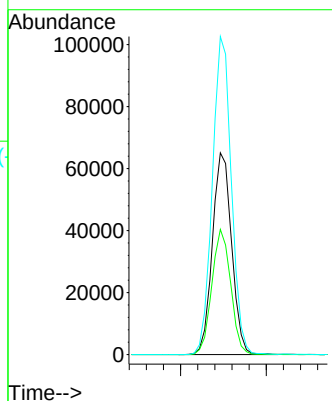
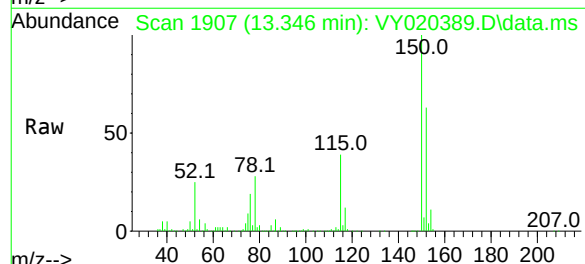
Tgt Ion:152 Resp: 101642

Ion Ratio Lower Upper

152 100

115 60.6 30.0 90.0

150 155.2 0.0 348.2





CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CORN02
 Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860
 Instrument ID: MSVOA_D Calibration Date(s): 11/15/2024 11/15/2024
 Heated Purge: (Y/N) Y Calibration Time(s): 10:04 12:18
 GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID:	RRF005 = VD080020.D	RRF010 = VD080021.D	RRF020 = VD080022.D	RRF050 = VD080023.D	RRF100 = VD080024.D	RRF150 = VD080025.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.465	0.388	0.364	0.396	0.396	0.399	0.401	8.4
Chloromethane	0.330	0.348	0.279	0.276	0.281	0.257	0.295	12.1
Vinyl Chloride	0.377	0.390	0.312	0.322	0.330	0.290	0.337	11.5
Bromomethane	0.451	0.498	0.345	0.305	0.347	0.296	0.374	22
Chloroethane	0.254	0.309	0.228	0.208	0.251	0.195	0.241	16.9
Trichlorofluoromethane	0.935	0.919	0.763	0.766	0.824	0.758	0.827	9.8
1,1,2-Trichlorotrifluoroethane	0.571	0.563	0.486	0.481	0.498	0.503	0.517	7.6
1,1-Dichloroethene	0.535	0.540	0.494	0.491	0.519	0.529	0.518	4.1
Acetone	0.101	0.116	0.091	0.106	0.132	0.124	0.112	13.6
Carbon Disulfide	1.724	1.793	1.552	1.554	1.697	1.690	1.668	5.8
Methyl tert-butyl Ether	0.877	1.057	1.011	1.088	1.156	1.153	1.057	9.9
Methyl Acetate	0.270	0.251	0.248	0.214	0.255	0.249	0.248	7.5
Methylene Chloride	0.643	0.628	0.612	0.556	0.581	0.575	0.599	5.6
trans-1,2-Dichloroethene	0.589	0.579	0.536	0.578	0.579	0.576	0.573	3.3
1,1-Dichloroethane	1.015	1.040	0.961	0.973	0.974	0.972	0.989	3.2
Cyclohexane	0.945	0.869	0.780	0.797	0.811	0.828	0.838	7.2
2-Butanone	0.135	0.141	0.139	0.154	0.155	0.152	0.146	5.8
Carbon Tetrachloride	0.521	0.515	0.482	0.491	0.483	0.490	0.497	3.4
cis-1,2-Dichloroethene	0.665	0.649	0.620	0.656	0.675	0.679	0.657	3.2
Bromochloromethane	0.506	0.495	0.416	0.406	0.402	0.415	0.440	10.7
Chloroform	1.057	1.143	1.012	1.019	1.006	1.015	1.042	5
1,1,1-Trichloroethane	0.970	0.930	0.851	0.869	0.864	0.867	0.892	5.3
Methylcyclohexane	0.517	0.515	0.476	0.556	0.583	0.604	0.542	8.9
Benzene	1.391	1.430	1.351	1.436	1.439	1.463	1.418	2.8
1,2-Dichloroethane	0.376	0.382	0.350	0.368	0.367	0.359	0.367	3.1
Trichloroethene	0.378	0.389	0.341	0.361	0.361	0.372	0.367	4.5
1,2-Dichloropropane	0.333	0.345	0.329	0.352	0.342	0.344	0.341	2.5
Bromodichloromethane	0.513	0.504	0.472	0.499	0.492	0.497	0.496	2.8
4-Methyl-2-Pentanone	0.160	0.164	0.172	0.193	0.197	0.193	0.180	9.1
Toluene	0.814	0.864	0.823	0.917	0.927	0.945	0.881	6.4

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CORN02
 Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860
 Instrument ID: MSVOA_D Calibration Date(s): 11/15/2024 11/15/2024
 Heated Purge: (Y/N) Y Calibration Time(s): 10:04 12:18
 GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID:		RRF005 = VD080020.D		RRF010 = VD080021.D		RRF020 = VD080022.D		
		RRF050 = VD080023.D		RRF100 = VD080024.D		RRF150 = VD080025.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.401	0.440	0.420	0.459	0.465	0.471	0.442	6.2
cis-1,3-Dichloropropene	0.490	0.501	0.506	0.542	0.549	0.555	0.524	5.3
1,1,2-Trichloroethane	0.256	0.276	0.250	0.267	0.262	0.263	0.262	3.4
2-Hexanone	0.108	0.124	0.122	0.147	0.148	0.145	0.132	12.5
Dibromochloromethane	0.317	0.348	0.320	0.349	0.343	0.349	0.338	4.5
1,2-Dibromoethane	0.234	0.251	0.237	0.252	0.256	0.255	0.247	3.9
Tetrachloroethene	0.386	0.365	0.337	0.342	0.352	0.355	0.356	5
Chlorobenzene	1.138	1.102	1.024	1.070	1.095	1.116	1.091	3.6
Ethyl Benzene	1.740	1.714	1.693	1.866	1.965	2.002	1.830	7.3
m/p-Xylenes	0.647	0.688	0.683	0.727	0.766	0.780	0.715	7.2
o-Xylene	0.542	0.595	0.604	0.670	0.720	0.726	0.643	11.5
Styrene	0.969	1.068	1.105	1.212	1.259	1.271	1.148	10.5
Bromoform	0.240	0.222	0.215	0.223	0.222	0.221	0.224	3.8
Isopropylbenzene	3.045	3.093	2.974	3.271	3.463	3.501	3.224	6.9
1,1,2,2-Tetrachloroethane	0.661	0.656	0.585	0.608	0.612	0.597	0.620	5.1
1,3-Dichlorobenzene	1.711	1.653	1.627	1.688	1.735	1.768	1.697	3.1
1,4-Dichlorobenzene	1.809	1.769	1.608	1.661	1.692	1.686	1.704	4.3
1,2-Dichlorobenzene	1.500	1.502	1.408	1.473	1.502	1.494	1.480	2.5
1,2-Dibromo-3-Chloropropane	0.083	0.109	0.090	0.091	0.096	0.093	0.094	8.9
1,2,4-Trichlorobenzene	0.913	0.860	0.855	0.923	1.001	1.014	0.928	7.3
1,2,3-Trichlorobenzene	0.766	0.782	0.751	0.825	0.873	0.891	0.815	7.1
1,2-Dichloroethane-d4	0.554	0.532	0.451	0.526	0.504	0.523	0.515	6.8
Dibromofluoromethane	0.335	0.357	0.285	0.338	0.329	0.354	0.333	7.8
Toluene-d8	1.162	1.249	1.087	1.330	1.303	1.393	1.254	9
4-Bromofluorobenzene	0.388	0.392	0.353	0.435	0.437	0.464	0.411	9.9

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_D\Method\
 Method File : 82D111424S.M
 Title : SW846 8260
 Last Update : Fri Nov 15 06:28:05 2024
 Response Via : Initial Calibration

Calibration Files

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D

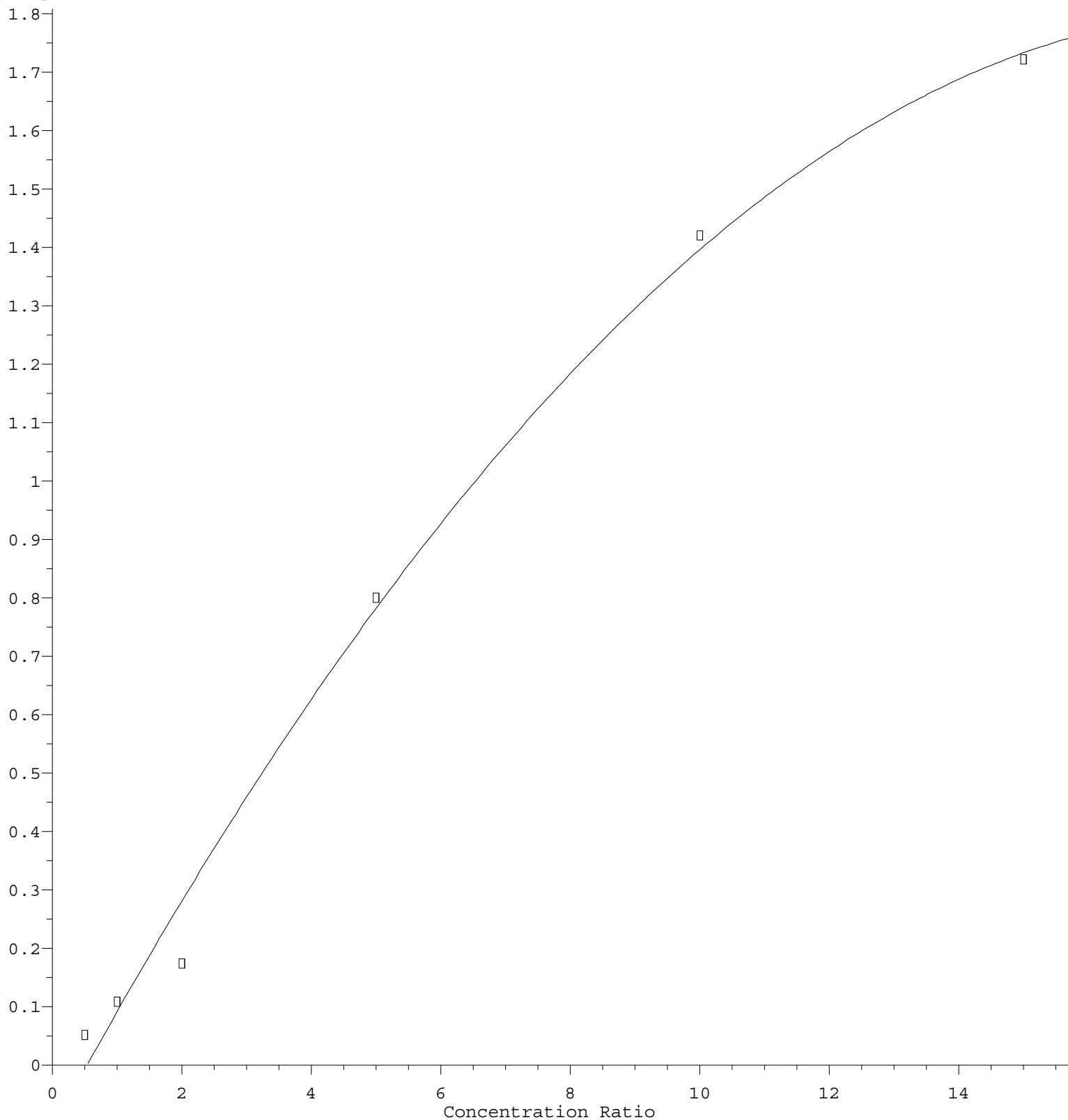
	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.505	0.393	0.379	0.469	0.345	0.402	0.416	14.37
3) P	Chloromethane	0.351	0.335	0.269	0.337	0.268	0.273	0.305	12.87
4) C	Vinyl Chloride	0.408	0.413	0.309	0.403	0.299	0.315	0.358	15.51#
5) T	Bromomethane	0.599	0.553	0.394	0.425	0.302	0.329	0.434	27.54
6) T	Chloroethane	0.255	0.300	0.212	0.284	0.199	0.207	0.243	17.79
7) T	Trichlorofluor...	1.045	0.886	0.781	0.943	0.705	0.781	0.857	14.59
8) T	Diethyl Ether	0.241	0.225	0.211	0.263	0.237	0.245	0.237	7.47
9) T	1,1,2-Trichlor...	0.659	0.551	0.498	0.573	0.456	0.507	0.541	13.16
10) T	Methyl Iodide	0.172	0.226	0.385	0.681	0.632	0.787	0.480	53.20
11) T	Tert butyl alc...	0.030	0.028	0.025	0.027	0.024	0.025	0.026	9.67
12) CM	1,1-Dichloroet...	0.565	0.496	0.479	0.571	0.477	0.526	0.519	8.11#
13) T	Acrolein	0.041	0.044	0.043	0.058	0.055	0.049	0.048	14.55
14) T	Allyl chloride	0.668	0.645	0.578	0.818	0.701	0.812	0.704	13.54
15) T	Acrylonitrile	0.093	0.093	0.093	0.114	0.103	0.111	0.101	9.27
16) T	Acetone	0.103	0.109	0.087	0.160	0.142	0.115	0.119	22.56
17) T	Carbon Disulfide	1.881	1.771	1.518	1.912	1.539	1.637	1.710	9.97
18) T	Methyl Acetate	0.256	0.225	0.199	0.267	0.235	0.253	0.239	10.48
19) T	Methyl tert-bu...	0.985	0.889	0.950	1.183	1.056	1.178	1.040	11.66
20) T	Methylene Chlo...	0.771	0.661	0.576	0.669	0.549	0.605	0.638	12.53
21) T	trans-1,2-Dich...	0.612	0.547	0.534	0.652	0.534	0.609	0.581	8.58
22) T	Diisopropyl ether	1.334	1.305	1.475	1.713	1.441	1.612	1.480	10.70
23) T	Vinyl Acetate	0.703	0.721	0.811	0.969	0.856	0.931	0.832	13.02
24) P	1,1-Dichloroet...	1.023	0.975	0.982	1.080	0.894	1.011	0.994	6.20
25) T	2-Butanone	0.161	0.128	0.135	0.179	0.158	0.161	0.154	12.27
26) T	2,2-Dichloropr...	1.073	0.864	0.825	0.939	0.764	0.870	0.889	12.03
27) T	cis-1,2-Dichlo...	0.738	0.592	0.610	0.736	0.622	0.709	0.668	10.04
28) T	Bromochloromet...	0.532	0.448	0.433	0.443	0.424	0.395	0.446	10.41
29) T	Tetrahydrofuran	0.087	0.068	0.077	0.088	0.079	0.083	0.080	9.14
30) C	Chloroform	1.330	1.090	1.028	1.162	0.947	1.061	1.103	11.95#
31) T	Cyclohexane	1.004	0.798	0.765	0.901	0.732	0.847	0.841	11.85
32) T	1,1,1-Trichlor...	1.089	0.879	0.867	0.993	0.791	0.906	0.921	11.41
33) S	1,2-Dichloroet...	0.599	0.493	0.534	0.485	0.456	0.508	0.513	9.66
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.356	0.314	0.343	0.336	0.304	0.353	0.334	6.34
36) T	1,1-Dichloropr...	0.546	0.457	0.445	0.549	0.428	0.501	0.488	10.73
37) T	Ethyl Acetate	0.241	0.192	0.188	0.214	0.184	0.196	0.203	10.59
38) T	Carbon Tetrach...	0.636	0.534	0.500	0.572	0.444	0.529	0.536	12.12
39) T	Methylcyclohexane	0.600	0.498	0.510	0.645	0.519	0.642	0.569	11.95
40) TM	Benzene	1.646	1.379	1.401	1.694	1.341	1.580	1.507	10.05
41) T	Methacrylonitrile	0.128	0.084	0.108	0.111	0.108	0.110	0.108	13.01
42) TM	1,2-Dichloroet...	0.459	0.370	0.380	0.430	0.342	0.387	0.395	10.77
43) T	Isopropyl Acetate	0.408	0.337	0.340	0.402	0.342	0.380	0.368	8.82
44) TM	Trichloroethene	0.433	0.364	0.370	0.425	0.340	0.399	0.389	9.38
45) C	1,2-Dichloropr...	0.387	0.328	0.340	0.404	0.322	0.370	0.359	9.32#
46) T	Dibromomethane	0.235	0.198	0.201	0.231	0.190	0.210	0.211	8.68
47) T	Bromodichlorom...	0.592	0.493	0.499	0.590	0.460	0.537	0.528	10.24
48) T	Methyl methacr...	0.172	0.120	0.151	0.191	0.165	0.188	0.165	16.12
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	9.81
50) S	Toluene-d8	1.298	1.140	1.273	1.289	1.194	1.394	1.265	7.01
51) T	4-Methyl-2-Pen...	0.188	0.159	0.181	0.211	0.180	0.194	0.186	9.39
52) CM	Toluene	0.946	0.834	0.872	1.085	0.871	1.022	0.938	10.49#
53) T	t-1,3-Dichloro...	0.462	0.415	0.425	0.515	0.429	0.501	0.458	9.17
54) T	cis-1,3-Dichlo...	0.559	0.488	0.516	0.623	0.513	0.594	0.549	9.53
55) T	1,1,2-Trichlor...	0.322	0.282	0.270	0.297	0.241	0.276	0.281	9.61

Method Path : Z:\voasrv\HPCHEM1\MSVOA_D\Method\										
Method File : 82D111424S.M										
56)	T	Ethyl methacry...	0.314	0.255	0.292	0.373	0.323	0.363	0.320	13.72
57)	T	1,3-Dichloropr...	0.503	0.415	0.434	0.499	0.408	0.471	0.455	9.16
58)	T	2-Chloroethyl ...	0.102	0.097	0.104	0.120	0.128	0.134	0.114	13.20
59)	T	2-Hexanone	0.137	0.112	0.130	0.173	0.149	0.152	0.142	14.56
60)	T	Dibromochlorom...	0.429	0.345	0.354	0.403	0.332	0.374	0.373	9.94
61)	T	1,2-Dibromoethane	0.298	0.240	0.255	0.286	0.238	0.268	0.264	9.26
62)	S	4-Bromofluorob...	0.451	0.381	0.419	0.434	0.398	0.461	0.424	7.27
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.437	0.360	0.342	0.409	0.338	0.379	0.377	10.43
65)	PM	Chlorobenzene	1.308	1.066	1.046	1.242	1.028	1.183	1.146	10.10
66)	T	1,1,1,2-Tetrac...	0.457	0.390	0.372	0.448	0.358	0.418	0.407	9.88
67)	C	Ethyl Benzene	1.893	1.624	1.732	2.189	1.807	2.131	1.896	11.78#
68)	T	m/p-Xylenes	0.742	0.644	0.696	0.872	0.711	0.822	0.748	11.32
69)	T	o-Xylene	0.642	0.589	0.616	0.788	0.660	0.779	0.679	12.48
70)	T	Styrene	1.147	1.032	1.129	1.401	1.171	1.363	1.207	11.92
71)	P	Bromoform	0.256	0.220	0.219	0.251	0.206	0.228	0.230	8.57
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	3.296	2.760	2.940	3.794	3.065	3.853	3.285	13.78
74)	T	N-amyl acetate	0.740	0.578	0.658	0.780	0.673	0.777	0.701	11.28
75)	P	1,1,2,2-Tetrac...	0.763	0.591	0.600	0.675	0.551	0.631	0.635	11.83
76)	T	1,2,3-Trichlor...	0.486	0.381	0.470	0.442	0.366	0.413	0.426	11.35
77)	T	Bromobenzene	0.939	0.746	0.789	0.977	0.785	0.952	0.865	11.76
78)	T	n-propylbenzene	4.120	3.426	3.718	4.726	3.776	4.621	4.065	12.83
79)	T	2-Chlorotoluene	2.558	2.121	2.195	2.718	2.194	2.709	2.416	11.45
80)	T	1,3,5-Trimethy...	2.678	2.328	2.545	3.247	2.617	3.254	2.778	13.84
81)	T	trans-1,4-Dich...	0.239	0.194	0.211	0.242	0.202	0.234	0.220	9.32
82)	T	4-Chlorotoluene	2.725	2.275	2.373	2.903	2.301	2.816	2.565	10.93
83)	T	tert-Butylbenzene	2.428	1.964	2.140	2.805	2.272	2.774	2.397	14.20
84)	T	1,2,4-Trimethy...	2.673	2.329	2.613	3.303	2.694	3.335	2.824	14.33
85)	T	sec-Butylbenzene	3.549	3.083	3.293	4.180	3.302	4.137	3.591	12.93
86)	T	p-Isopropyltol...	2.997	2.535	2.749	3.554	2.871	3.573	3.047	14.07
87)	T	1,3-Dichlorobe...	2.057	1.622	1.635	1.950	1.562	1.911	1.790	11.60
88)	T	1,4-Dichlorobe...	2.259	1.655	1.623	1.909	1.522	1.843	1.802	14.77
89)	T	n-Butylbenzene	2.926	2.381	2.482	3.286	2.638	3.280	2.832	13.94
90)	T	Hexachloroethane	0.792	0.601	0.597	0.729	0.570	0.696	0.664	13.29
91)	T	1,2-Dichlorobe...	1.826	1.396	1.437	1.747	1.357	1.623	1.564	12.54
92)	T	1,2-Dibromo-3-...	0.124	0.097	0.088	0.097	0.081	0.096	0.097	15.04
93)	T	1,2,4-Trichlor...	1.048	0.853	0.834	1.054	0.882	1.082	0.959	11.89
94)	T	Hexachlorobuta...	0.612	0.475	0.479	0.574	0.452	0.566	0.526	12.49
95)	T	Naphthalene	1.623	1.298	1.408	1.812	1.615	1.931	1.615	14.71
96)	T	1,2,3-Trichlor...	0.900	0.696	0.746	0.937	0.776	0.950	0.834	12.94

(#) = Out of Range

Acetone

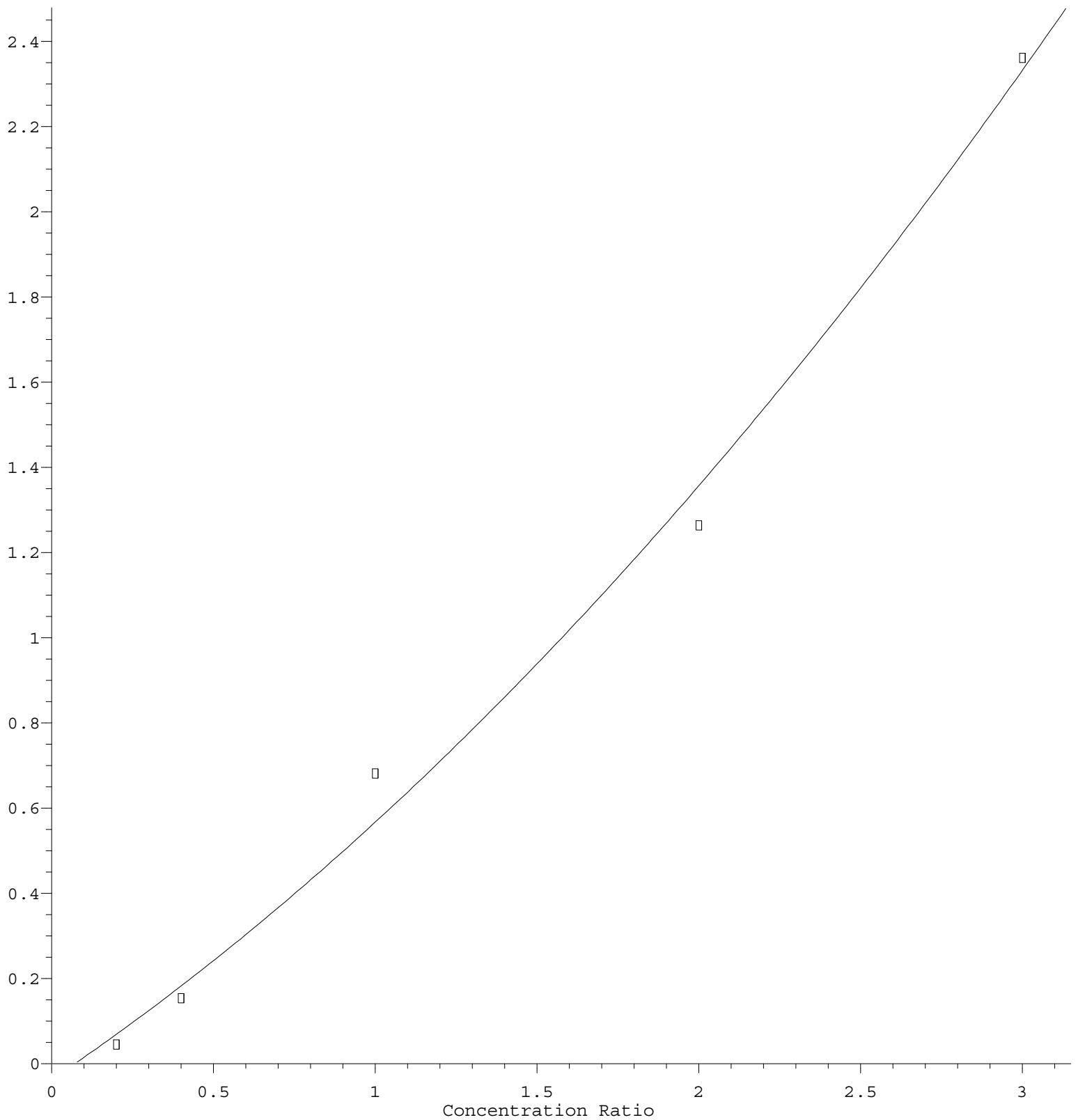
Response Ratio



$R = -5.542e-003 A^2 + 2.059e-001 A - 1.088e-001$
 Coef of Det (r^2) = 0.993807 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D111424S.M
 Calibration Table Last Updated: Fri Nov 15 06:28:05 2024

Methyl Iodide

Response Ratio



$R = 9.285e-002 A^2 + 5.111e-001 A - 3.687e-002$
Coef of Det (r^2) = 0.994372 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D111424S.M
Calibration Table Last Updated: Fri Nov 15 06:28:05 2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080011.D
 Acq On : 14 Nov 2024 18:02
 Operator : RP/MD
 Sample : VSTDICC005
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC005

Quant Time: Nov 15 05:53:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 05:52:29 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	173599	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	277459	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	256196	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	132946	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	10396	5.842	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	11.680%#		
35) Dibromofluoromethane	7.810	113	9875	5.324	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	10.640%#		
50) Toluene-d8	10.269	98	36017	5.132	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	10.260%#		
62) 4-Bromofluorobenzene	12.575	95	12519	5.318	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	10.640%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.934	85	8774	6.080	ug/l	92
3) Chloromethane	2.152	50	6089	5.744	ug/l	96
4) Vinyl Chloride	2.287	62	7090	5.706	ug/l	96
5) Bromomethane	2.699	94	10391	6.902	ug/l	99
6) Chloroethane	2.846	64	4426	5.250	ug/l	94
7) Trichlorofluoromethane	3.181	101	18141	6.098	ug/l	99
8) Diethyl Ether	3.593	74	4177	5.080	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.975	101	11445	6.096	ug/l	89
10) Methyl Iodide	4.175	142	2987	5.192	ug/l #	90
11) Tert butyl alcohol	5.057	59	2628	28.683	ug/l #	81
12) 1,1-Dichloroethene	3.940	96	9813	5.447	ug/l #	73
13) Acrolein	3.799	56	3530	21.053	ug/l	95
14) Allyl chloride	4.563	41	11592	4.746	ug/l	96
15) Acrylonitrile	5.263	53	8095	23.020	ug/l #	68
16) Acetone	4.022	43	8957	39.789	ug/l #	85
17) Carbon Disulfide	4.275	76	32658	5.502	ug/l	98
18) Methyl Acetate	4.575	43	4449	5.361	ug/l #	89
19) Methyl tert-butyl Ether	5.316	73	17098	4.735	ug/l	97
20) Methylene Chloride	4.799	84	13379	6.036	ug/l #	90
21) trans-1,2-Dichloroethene	5.316	96	10629	5.266	ug/l	90
22) Diisopropyl ether	6.222	45	23150	4.506	ug/l #	87
23) Vinyl Acetate	6.157	43	61010	21.122	ug/l #	91
24) 1,1-Dichloroethane	6.116	63	17759	5.145	ug/l	93
25) 2-Butanone	7.081	43	13934	26.116	ug/l	96
26) 2,2-Dichloropropane	7.075	77	18632	6.036	ug/l	93
27) cis-1,2-Dichloroethene	7.081	96	12805	5.522	ug/l	96
28) Bromochloromethane	7.428	49	9244	5.971	ug/l	92
29) Tetrahydrofuran	7.457	42	7517	26.978	ug/l	99
30) Chloroform	7.599	83	23087	6.028	ug/l	94
31) Cyclohexane	7.881	56	17432	5.968	ug/l #	86
32) 1,1,1-Trichloroethane	7.798	97	18905	5.913	ug/l	96
36) 1,1-Dichloropropene	8.010	75	15161	5.601	ug/l	97
37) Ethyl Acetate	7.169	43	6680	5.942	ug/l #	93
38) Carbon Tetrachloride	7.993	117	17634	5.932	ug/l	99
39) Methylcyclohexane	9.275	83	16640	5.271	ug/l #	88
40) Benzene	8.251	78	45671	5.462	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080011.D
 Acq On : 14 Nov 2024 18:02
 Operator : RP/MD
 Sample : VSTDICC005
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_D

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024

Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:53:12 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M

Quant Title : SW846 8260

QLast Update : Fri Nov 15 05:52:29 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.410	41	3557	5.699	ug/l #	19
42) 1,2-Dichloroethane	8.328	62	12744	5.817	ug/l	98
43) Isopropyl Acetate	8.363	43	11324	5.543	ug/l	97
44) Trichloroethene	9.028	130	12011	5.570	ug/l	86
45) 1,2-Dichloropropane	9.304	63	10747	5.401	ug/l	99
46) Dibromomethane	9.398	93	6519	5.574	ug/l	95
47) Bromodichloromethane	9.587	83	16422	5.602	ug/l	95
48) Methyl methacrylate	9.381	41	4776	5.231	ug/l	97
49) 1,4-Dioxane	9.387	88	1105	99.167	ug/l	90
51) 4-Methyl-2-Pentanone	10.157	43	26078	25.332	ug/l	100
52) Toluene	10.334	92	26260	5.043	ug/l	98
53) t-1,3-Dichloropropene	10.551	75	12830	5.048	ug/l	90
54) cis-1,3-Dichloropropene	10.016	75	15514	5.093	ug/l	93
55) 1,1,2-Trichloroethane	10.734	97	8925	5.715	ug/l	97
56) Ethyl methacrylate	10.598	69	8722	4.913	ug/l	99
57) 1,3-Dichloropropane	10.881	76	13955	5.528	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.863	63	14158	22.331	ug/l	100
59) 2-Hexanone	10.922	43	19062	24.129	ug/l	91
60) Dibromochloromethane	11.075	129	11901	5.755	ug/l	99
61) 1,2-Dibromoethane	11.175	107	8281	5.649	ug/l	93
64) Tetrachloroethene	10.810	164	11194	5.789	ug/l	91
65) Chlorobenzene	11.610	112	33511	5.709	ug/l	91
66) 1,1,1,2-Tetrachloroethane	11.681	131	11700	5.607	ug/l	98
67) Ethyl Benzene	11.681	91	48499	4.992	ug/l	90
68) m/p-Xylenes	11.792	106	37997	9.918	ug/l	99
69) o-Xylene	12.122	106	16448	4.728	ug/l	95
70) Styrene	12.134	104	29383	4.751	ug/l	97
71) Bromoform	12.298	173	6557	5.565	ug/l #	95
73) Isopropylbenzene	12.422	105	43814	5.017	ug/l	96
74) N-amyl acetate	12.234	43	9843	5.280	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.675	83	10144	6.007	ug/l	99
76) 1,2,3-Trichloropropane	12.728	75	6466m	5.704	ug/l	
77) Bromobenzene	12.704	156	12479	5.427	ug/l	96
78) n-propylbenzene	12.763	91	54776	5.068	ug/l	98
79) 2-Chlorotoluene	12.851	91	34007	5.294	ug/l	98
80) 1,3,5-Trimethylbenzene	12.904	105	35608	4.820	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.469	75	3181	5.427	ug/l	97
82) 4-Chlorotoluene	12.951	91	36227	5.311	ug/l	98
83) tert-Butylbenzene	13.163	119	32276	5.063	ug/l	99
84) 1,2,4-Trimethylbenzene	13.210	105	35538	4.732	ug/l	99
85) sec-Butylbenzene	13.345	105	47185	4.942	ug/l	96
86) p-Isopropyltoluene	13.463	119	39845	4.919	ug/l	97
87) 1,3-Dichlorobenzene	13.457	146	27342	5.746	ug/l	99
88) 1,4-Dichlorobenzene	13.539	146	30031	6.269	ug/l	94
89) n-Butylbenzene	13.786	91	38898	5.165	ug/l	97
90) Hexachloroethane	14.051	117	10531	5.962	ug/l	99
91) 1,2-Dichlorobenzene	13.828	146	24275	5.836	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.445	75	1643	6.373	ug/l	85
93) 1,2,4-Trichlorobenzene	15.098	180	13931	5.463	ug/l	98
94) Hexachlorobutadiene	15.204	225	8135	5.814	ug/l	97
95) Naphthalene	15.333	128	21571	5.025	ug/l	98
96) 1,2,3-Trichlorobenzene	15.522	180	11960	5.393	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080011.D
Acq On : 14 Nov 2024 18:02
Operator : RP/MD
Sample : VSTDICC005
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:53:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

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

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

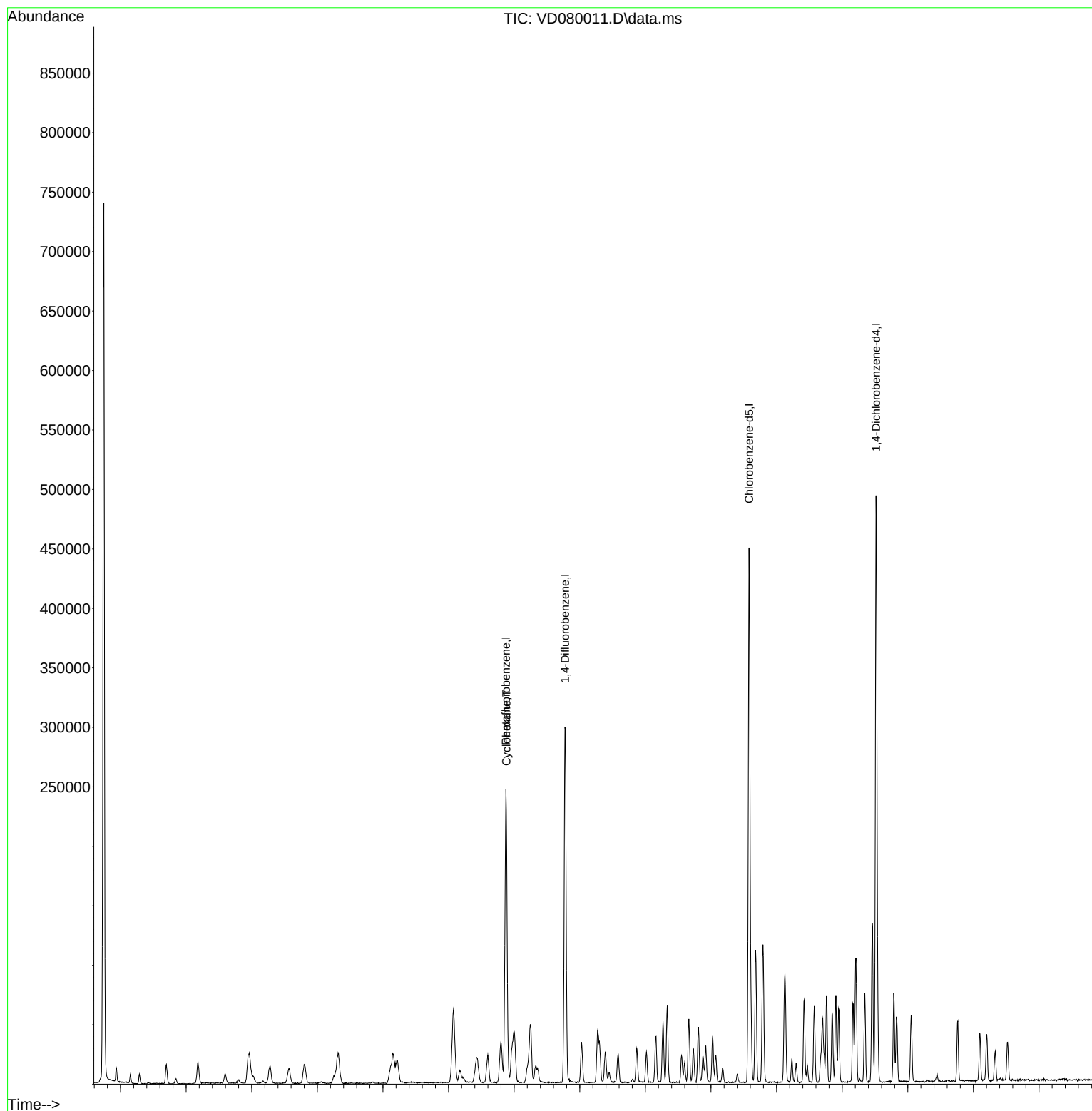
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080011.D
Acq On : 14 Nov 2024 18:02
Operator : RP/MD
Sample : VSTDICC005
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:53:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080012.D
 Acq On : 14 Nov 2024 18:29
 Operator : RP/MD
 Sample : VSTDICC010
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC010

Quant Time: Nov 15 05:54:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 05:52:29 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	188864	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	301399	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	276644	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	152917	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.234	65	18620	9.618	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	19.240%#
35) Dibromofluoromethane	7.805	113	18920	9.390	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	18.780%#
50) Toluene-d8	10.269	98	68700	9.012	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	18.020%#
62) 4-Bromofluorobenzene	12.569	95	22972	8.984	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	17.960%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.934	85	14855	9.461	ug/l	92
3) Chloromethane	2.152	50	12638	10.958	ug/l	90
4) Vinyl Chloride	2.287	62	15614	11.550	ug/l	92
5) Bromomethane	2.693	94	20874	12.745	ug/l	100
6) Chloroethane	2.834	64	11346	12.370	ug/l	96
7) Trichlorofluoromethane	3.175	101	33472	10.342	ug/l #	83
8) Diethyl Ether	3.593	74	8481	9.482	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.969	101	20804	10.185	ug/l	98
10) Methyl Iodide	4.169	142	8521	7.800	ug/l	96
11) Tert butyl alcohol	5.063	59	5303	53.202	ug/l	97
12) 1,1-Dichloroethene	3.946	96	18753	9.568	ug/l	85
13) Acrolein	3.793	56	8307	45.539	ug/l	98
14) Allyl chloride	4.558	41	24380	9.174	ug/l	98
15) Acrylonitrile	5.252	53	17652	46.140	ug/l	94
16) Acetone	4.028	43	20494	54.347	ug/l	98
17) Carbon Disulfide	4.275	76	66891	10.358	ug/l	97
18) Methyl Acetate	4.569	43	8501	9.415	ug/l	99
19) Methyl tert-butyl Ether	5.316	73	33581	8.547	ug/l	94
20) Methylene Chloride	4.799	84	24973	10.355	ug/l	93
21) trans-1,2-Dichloroethene	5.316	96	20643	9.400	ug/l	94
22) Diisopropyl ether	6.216	45	49275	8.816	ug/l #	98
23) Vinyl Acetate	6.158	43	136208	43.344	ug/l	94
24) 1,1-Dichloroethane	6.110	63	36813	9.804	ug/l	97
25) 2-Butanone	7.087	43	24162	41.625	ug/l	94
26) 2,2-Dichloropropane	7.075	77	32630	9.716	ug/l	98
27) cis-1,2-Dichloroethene	7.081	96	22375	8.870	ug/l	94
28) Bromochloromethane	7.428	49	16935	10.055	ug/l	94
29) Tetrahydrofuran	7.452	42	12870	42.457	ug/l	97
30) Chloroform	7.605	83	41191	9.885	ug/l	89
31) Cyclohexane	7.881	56	30155	9.490	ug/l #	89
32) 1,1,1-Trichloroethane	7.793	97	33186	9.541	ug/l	95
36) 1,1-Dichloropropene	8.010	75	27533	9.364	ug/l	98
37) Ethyl Acetate	7.169	43	11588	9.489	ug/l #	67
38) Carbon Tetrachloride	7.993	117	32176	9.965	ug/l	95
39) Methylcyclohexane	9.269	83	30045	8.761	ug/l	92
40) Benzene	8.252	78	83153	9.154	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080012.D
 Acq On : 14 Nov 2024 18:29
 Operator : RP/MD
 Sample : VSTDICC010
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC010

Quant Time: Nov 15 05:54:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 05:52:29 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.405	41	5071	7.479	ug/l #	93
42) 1,2-Dichloroethane	8.328	62	22285	9.365	ug/l	99
43) Isopropyl Acetate	8.363	43	20332	9.162	ug/l	98
44) Trichloroethene	9.028	130	21961	9.375	ug/l	84
45) 1,2-Dichloropropane	9.310	63	19790	9.155	ug/l	91
46) Dibromomethane	9.393	93	11930	9.390	ug/l	97
47) Bromodichloromethane	9.587	83	29718	9.332	ug/l	95
48) Methyl methacrylate	9.381	41	7220	7.280	ug/l #	83
49) 1,4-Dioxane	9.387	88	1995	164.817	ug/l #	86
51) 4-Methyl-2-Pentanone	10.157	43	47814	42.756	ug/l	98
52) Toluene	10.334	92	50256	8.885	ug/l	100
53) t-1,3-Dichloropropene	10.551	75	25038	9.068	ug/l	91
54) cis-1,3-Dichloropropene	10.016	75	29430	8.894	ug/l	96
55) 1,1,2-Trichloroethane	10.728	97	17004	10.024	ug/l	96
56) Ethyl methacrylate	10.593	69	15381	7.975	ug/l	97
57) 1,3-Dichloropropane	10.881	76	25036	9.130	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.869	63	29386	42.668	ug/l	99
59) 2-Hexanone	10.922	43	33905	39.508	ug/l	93
60) Dibromochloromethane	11.075	129	20772	9.246	ug/l	96
61) 1,2-Dibromoethane	11.181	107	14496	9.104	ug/l	96
64) Tetrachloroethene	10.810	164	19899	9.530	ug/l	95
65) Chlorobenzene	11.604	112	58988	9.307	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.675	131	21586	9.580	ug/l	96
67) Ethyl Benzene	11.681	91	89875	8.567	ug/l	96
68) m/p-Xylenes	11.793	106	71270	17.228	ug/l	99
69) o-Xylene	12.122	106	32570	8.670	ug/l	99
70) Styrene	12.134	104	57105	8.550	ug/l	98
71) Bromoform	12.293	173	12167	9.563	ug/l #	98
73) Isopropylbenzene	12.422	105	84410	8.403	ug/l	100
74) N-amyl acetate	12.228	43	17671	8.242	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.675	83	18080	9.309	ug/l	99
76) 1,2,3-Trichloropropane	12.722	75	11661m	8.943	ug/l	
77) Bromobenzene	12.698	156	22830	8.631	ug/l	96
78) n-propylbenzene	12.763	91	104775	8.429	ug/l	99
79) 2-Chlorotoluene	12.845	91	64878	8.781	ug/l	98
80) 1,3,5-Trimethylbenzene	12.904	105	71192	8.379	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.463	75	5933	8.800	ug/l	99
82) 4-Chlorotoluene	12.945	91	69585	8.869	ug/l	98
83) tert-Butylbenzene	13.163	119	60076	8.194	ug/l	96
84) 1,2,4-Trimethylbenzene	13.210	105	71231	8.246	ug/l	98
85) sec-Butylbenzene	13.345	105	94287	8.585	ug/l	100
86) p-Isopropyltoluene	13.463	119	77523	8.320	ug/l	98
87) 1,3-Dichlorobenzene	13.457	146	49592	9.061	ug/l	100
88) 1,4-Dichlorobenzene	13.534	146	50618	9.186	ug/l	99
89) n-Butylbenzene	13.787	91	72813	8.406	ug/l	97
90) Hexachloroethane	14.051	117	18383	9.048	ug/l	98
91) 1,2-Dichlorobenzene	13.828	146	42705	8.926	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.445	75	2968	10.009	ug/l	85
93) 1,2,4-Trichlorobenzene	15.098	180	26082	8.893	ug/l	99
94) Hexachlorobutadiene	15.204	225	14524	9.024	ug/l	95
95) Naphthalene	15.334	128	39697	8.039	ug/l	97
96) 1,2,3-Trichlorobenzene	15.522	180	21297	8.349	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080012.D
Acq On : 14 Nov 2024 18:29
Operator : RP/MD
Sample : VSTDICC010
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:54:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

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

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

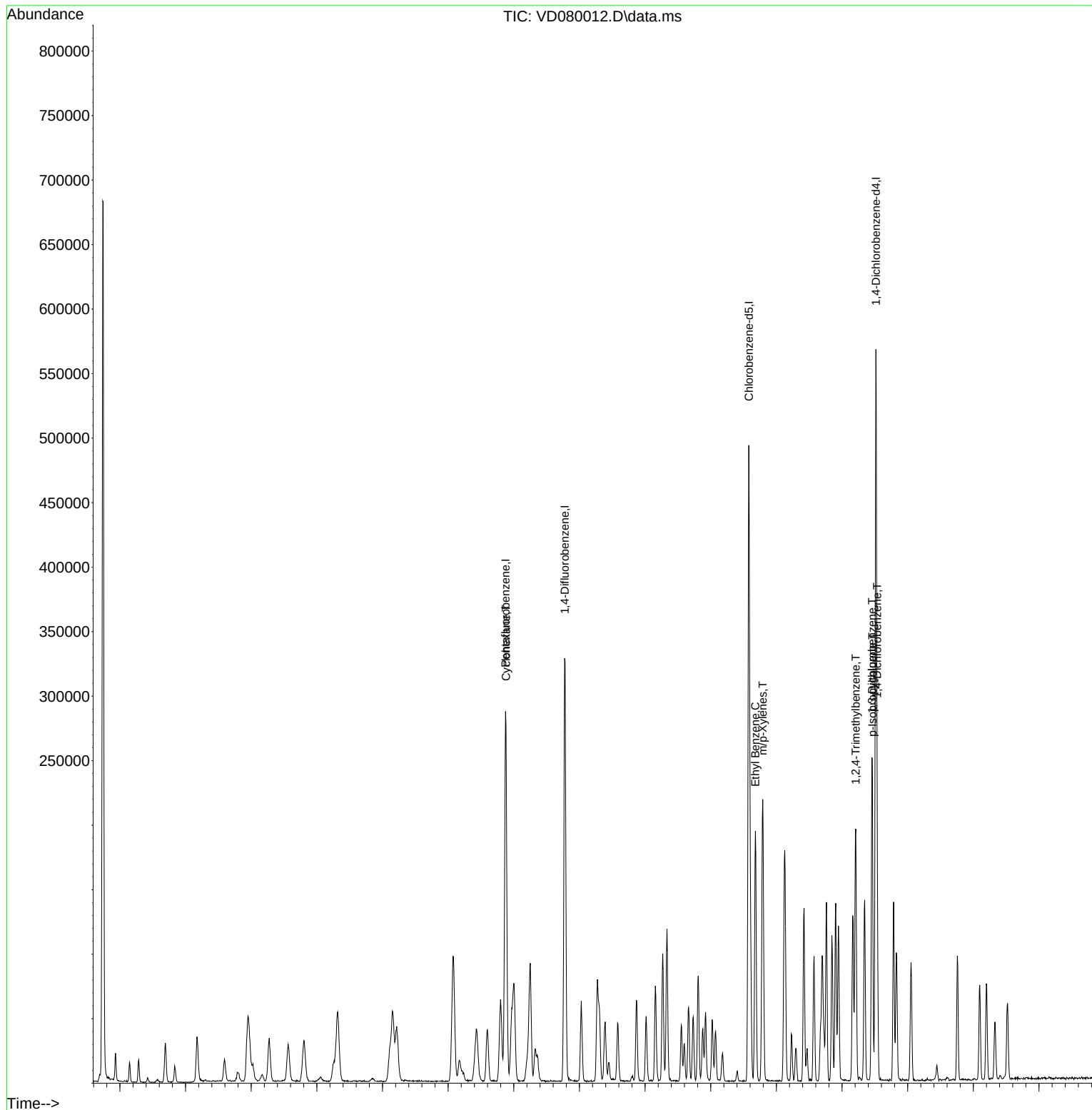
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Data File : VD080012.D
Acq On : 14 Nov 2024 18:29
Operator : RP/MD
Sample : VSTDICC010
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:54:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080013.D
 Acq On : 14 Nov 2024 18:56
 Operator : RP/MD
 Sample : VSTDICC020
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC020

Quant Time: Nov 15 05:55:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 05:52:29 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	197988	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	310792	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	289410	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	158312	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	42292	20.838	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	41.680%#		
35) Dibromofluoromethane	7.805	113	42661	20.532	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	41.060%#		
50) Toluene-d8	10.269	98	158316	20.140	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	40.280%#		
62) 4-Bromofluorobenzene	12.575	95	52082	19.753	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	39.500%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.934	85	30037	18.249	ug/l	97
3) Chloromethane	2.146	50	21292	17.611	ug/l	100
4) Vinyl Chloride	2.287	62	24432	17.240	ug/l	97
5) Bromomethane	2.681	94	31236	18.193	ug/l	98
6) Chloroethane	2.834	64	16810	17.483	ug/l	91
7) Trichlorofluoromethane	3.175	101	61842	18.228	ug/l	96
8) Diethyl Ether	3.599	74	16718	17.829	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.964	101	39444	18.420	ug/l	96
10) Methyl Iodide	4.164	142	30454	17.537	ug/l	100
11) Tert butyl alcohol	5.052	59	9736	93.174	ug/l	97
12) 1,1-Dichloroethene	3.946	96	37897	18.444	ug/l #	78
13) Acrolein	3.793	56	17095	89.396	ug/l	97
14) Allyl chloride	4.564	41	45743	16.420	ug/l	94
15) Acrylonitrile	5.258	53	36871	91.935	ug/l	97
16) Acetone	4.022	43	34437	71.386	ug/l	89
17) Carbon Disulfide	4.269	76	120227	17.759	ug/l	99
18) Methyl Acetate	4.575	43	15721	16.610	ug/l	96
19) Methyl tert-butyl Ether	5.328	73	75246	18.270	ug/l	94
20) Methylene Chloride	4.805	84	45590	18.033	ug/l	89
21) trans-1,2-Dichloroethene	5.316	96	42325	18.385	ug/l	98
22) Diisopropyl ether	6.210	45	116833	19.939	ug/l	95
23) Vinyl Acetate	6.158	43	321142	97.485	ug/l	98
24) 1,1-Dichloroethane	6.110	63	77768	19.756	ug/l	97
25) 2-Butanone	7.087	43	53471	87.872	ug/l	98
26) 2,2-Dichloropropane	7.075	77	65340	18.559	ug/l	100
27) cis-1,2-Dichloroethene	7.081	96	48278	18.256	ug/l	98
28) Bromochloromethane	7.428	49	34258	19.404	ug/l	96
29) Tetrahydrofuran	7.452	42	30397	95.655	ug/l	98
30) Chloroform	7.599	83	81408	18.637	ug/l	99
31) Cyclohexane	7.881	56	60562	18.180	ug/l #	91
32) 1,1,1-Trichloroethane	7.793	97	68689	18.839	ug/l	99
36) 1,1-Dichloropropene	8.010	75	55306	18.240	ug/l	98
37) Ethyl Acetate	7.169	43	23323	18.522	ug/l #	79
38) Carbon Tetrachloride	7.993	117	62170	18.672	ug/l	95
39) Methylcyclohexane	9.275	83	63363	17.918	ug/l	99
40) Benzene	8.252	78	174136	18.591	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080013.D
 Acq On : 14 Nov 2024 18:56
 Operator : RP/MD
 Sample : VSTDICC020
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC020

Quant Time: Nov 15 05:55:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 05:52:29 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.405	41	13402	19.170	ug/l	90
42) 1,2-Dichloroethane	8.328	62	47231	19.248	ug/l	98
43) Isopropyl Acetate	8.363	43	42249	18.464	ug/l	98
44) Trichloroethene	9.028	130	46010	19.047	ug/l	93
45) 1,2-Dichloropropane	9.304	63	42265	18.961	ug/l	95
46) Dibromomethane	9.393	93	25016	19.096	ug/l	98
47) Bromodichloromethane	9.587	83	61993	18.878	ug/l	98
48) Methyl methacrylate	9.381	41	18730	18.314	ug/l	92
49) 1,4-Dioxane	9.387	88	5199	416.536	ug/l	99
51) 4-Methyl-2-Pentanone	10.157	43	112478	97.541	ug/l	99
52) Toluene	10.334	92	108403	18.585	ug/l	99
53) t-1,3-Dichloropropene	10.551	75	52881	18.573	ug/l	96
54) cis-1,3-Dichloropropene	10.016	75	64194	18.814	ug/l	96
55) 1,1,2-Trichloroethane	10.734	97	33594	19.206	ug/l	95
56) Ethyl methacrylate	10.598	69	36283	18.245	ug/l	98
57) 1,3-Dichloropropane	10.875	76	53909	19.064	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.869	63	64674	91.067	ug/l	98
59) 2-Hexanone	10.922	43	80833	91.344	ug/l	97
60) Dibromochloromethane	11.075	129	44014	19.000	ug/l	98
61) 1,2-Dibromoethane	11.181	107	31735	19.328	ug/l	98
64) Tetrachloroethene	10.810	164	39538	18.100	ug/l	93
65) Chlorobenzene	11.604	112	121125	18.268	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.681	131	43115	18.290	ug/l	96
67) Ethyl Benzene	11.681	91	200511	18.270	ug/l	100
68) m/p-Xylenes	11.793	106	161089	37.223	ug/l	99
69) o-Xylene	12.122	106	71286	18.138	ug/l	99
70) Styrene	12.134	104	130692	18.705	ug/l	99
71) Bromoform	12.298	173	25340	19.038	ug/l #	96
73) Isopropylbenzene	12.422	105	186183	17.902	ug/l	100
74) N-amyl acetate	12.234	43	41691	18.782	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.675	83	37992	18.894	ug/l	98
76) 1,2,3-Trichloropropane	12.722	75	29790m	22.069	ug/l	
77) Bromobenzene	12.698	156	49984	18.253	ug/l	95
78) n-propylbenzene	12.763	91	235470	18.297	ug/l	100
79) 2-Chlorotoluene	12.845	91	138993	18.171	ug/l	99
80) 1,3,5-Trimethylbenzene	12.904	105	161145	18.319	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.469	75	13378	19.167	ug/l	98
82) 4-Chlorotoluene	12.945	91	150243	18.497	ug/l	99
83) tert-Butylbenzene	13.163	119	135502	17.852	ug/l	98
84) 1,2,4-Trimethylbenzene	13.210	105	165467	18.503	ug/l	99
85) sec-Butylbenzene	13.345	105	208556	18.343	ug/l	100
86) p-Isopropyltoluene	13.463	119	174095	18.048	ug/l	99
87) 1,3-Dichlorobenzene	13.457	146	103564	18.277	ug/l	99
88) 1,4-Dichlorobenzene	13.540	146	102782	18.017	ug/l	99
89) n-Butylbenzene	13.787	91	157177	17.528	ug/l	98
90) Hexachloroethane	14.051	117	37826	17.983	ug/l	99
91) 1,2-Dichlorobenzene	13.834	146	91029	18.377	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.445	75	5547	18.068	ug/l	93
93) 1,2,4-Trichlorobenzene	15.098	180	52828	17.399	ug/l	98
94) Hexachlorobutadiene	15.204	225	30325	18.199	ug/l	97
95) Naphthalene	15.328	128	89192	17.447	ug/l	96
96) 1,2,3-Trichlorobenzene	15.522	180	47228	17.884	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080013.D
Acq On : 14 Nov 2024 18:56
Operator : RP/MD
Sample : VSTDICC020
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:55:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

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

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

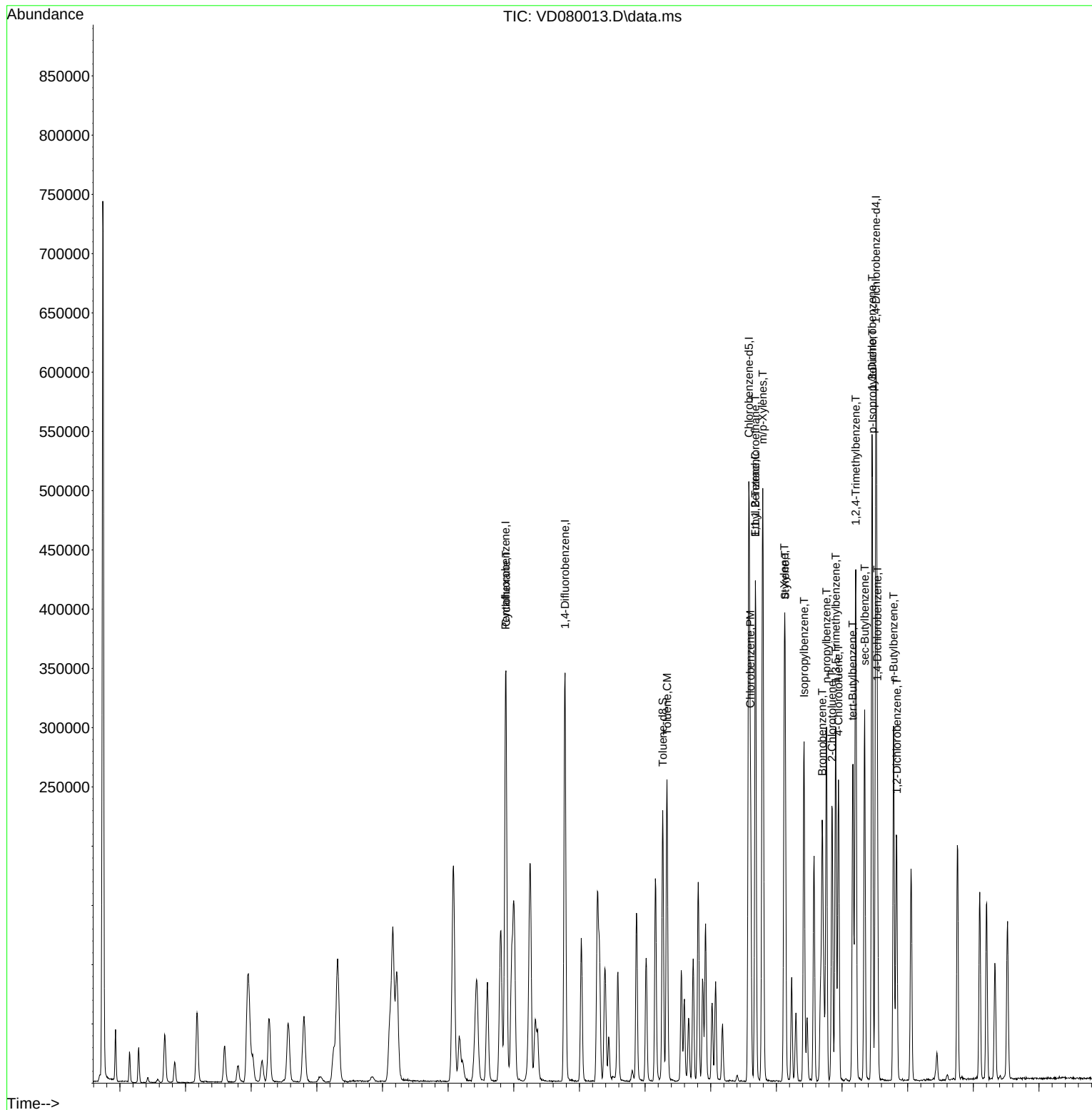
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\  
Data File : VD080013.D  
Acq On    : 14 Nov 2024   18:56  
Operator  : RP/MD  
Sample    : VSTDICC020  
Misc      : 5.00G/5ml/MSVOA_D/SOIL  
ALS Vial  : 4   Sample Multiplier: 1
```

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC020

Manual Integrations

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:55:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080014.D
 Acq On : 14 Nov 2024 19:22
 Operator : RP/MD
 Sample : VSTDICCC050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:56:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 05:52:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	203594	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	307136	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	286067	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	153548	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.234	65	98786	47.333	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	94.660%
35) Dibromofluoromethane	7.810	113	103336	50.327	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.660%
50) Toluene-d8	10.269	98	395754	50.944	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	101.880%
62) 4-Bromofluorobenzene	12.575	95	133282	51.151	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	102.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.934	85	95399	56.365	ug/l	100
3) Chloromethane	2.146	50	68640	55.209	ug/l	100
4) Vinyl Chloride	2.287	62	82062	56.311	ug/l	100
5) Bromomethane	2.693	94	86551	49.023	ug/l	100
6) Chloroethane	2.840	64	57797	58.456	ug/l	100
7) Trichlorofluoromethane	3.175	101	191890	55.002	ug/l	100
8) Diethyl Ether	3.599	74	53508	55.492	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.975	101	116702	52.999	ug/l	100
10) Methyl Iodide	4.169	142	138709	58.026	ug/l	100
11) Tert butyl alcohol	5.052	59	27629	257.130	ug/l	100
12) 1,1-Dichloroethene	3.946	96	116273	55.029	ug/l	100
13) Acrolein	3.799	56	59183	300.967	ug/l	100
14) Allyl chloride	4.563	41	166537	58.135	ug/l	100
15) Acrylonitrile	5.252	53	115925	281.091	ug/l	100
16) Acetone	4.028	43	162927	256.001	ug/l	100
17) Carbon Disulfide	4.269	76	389298	55.921	ug/l	100
18) Methyl Acetate	4.569	43	54410	55.902	ug/l	100
19) Methyl tert-butyl Ether	5.322	73	240796	56.856	ug/l	100
20) Methylene Chloride	4.805	84	136297	52.428	ug/l	100
21) trans-1,2-Dichloroethene	5.316	96	132838	56.114	ug/l	100
22) Diisopropyl ether	6.216	45	348707	57.873	ug/l	100
23) Vinyl Acetate	6.157	43	986672	291.263	ug/l	100
24) 1,1-Dichloroethane	6.116	63	219907	54.326	ug/l	100
25) 2-Butanone	7.081	43	182222	291.212	ug/l	100
26) 2,2-Dichloropropane	7.081	77	191212	52.815	ug/l	100
27) cis-1,2-Dichloroethene	7.081	96	149937	55.137	ug/l	100
28) Bromochloromethane	7.428	49	90226	49.697	ug/l	100
29) Tetrahydrofuran	7.446	42	89754	274.667	ug/l	100
30) Chloroform	7.599	83	236677	52.690	ug/l	100
31) Cyclohexane	7.881	56	183450	53.554	ug/l	100
32) 1,1,1-Trichloroethane	7.793	97	202158	53.917	ug/l	100
36) 1,1-Dichloropropene	8.010	75	168598	56.267	ug/l	100
37) Ethyl Acetate	7.175	43	65831	52.901	ug/l	100
38) Carbon Tetrachloride	7.999	117	175596	53.365	ug/l	100
39) Methylcyclohexane	9.275	83	198178	56.708	ug/l	100
40) Benzene	8.251	78	520262	56.205	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080014.D
 Acq On : 14 Nov 2024 19:22
 Operator : RP/MD
 Sample : VSTDICCC050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:56:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 05:52:29 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.399	41	34218	49.527	ug/l	100
42) 1,2-Dichloroethane	8.328	62	132004	54.436	ug/l	100
43) Isopropyl Acetate	8.363	43	123358	54.552	ug/l	100
44) Trichloroethene	9.028	130	130474	54.656	ug/l	100
45) 1,2-Dichloropropane	9.304	63	123960	56.274	ug/l	100
46) Dibromomethane	9.393	93	70822	54.705	ug/l	100
47) Bromodichloromethane	9.587	83	181086	55.800	ug/l	100
48) Methyl methacrylate	9.381	41	58637	58.018	ug/l	100
49) 1,4-Dioxane	9.387	88	13757	1115.309	ug/l	100
51) 4-Methyl-2-Pentanone	10.157	43	324338	284.613	ug/l	100
52) Toluene	10.334	92	333240	57.813	ug/l	100
53) t-1,3-Dichloropropene	10.551	75	158093	56.187	ug/l	100
54) cis-1,3-Dichloropropene	10.016	75	191431	56.774	ug/l	100
55) 1,1,2-Trichloroethane	10.734	97	91309	52.822	ug/l	100
56) Ethyl methacrylate	10.598	69	114491	58.256	ug/l	100
57) 1,3-Dichloropropane	10.881	76	153189	54.818	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.869	63	184640	263.086	ug/l	100
59) 2-Hexanone	10.922	43	265697	303.822	ug/l	100
60) Dibromochloromethane	11.075	129	123658	54.015	ug/l	100
61) 1,2-Dibromoethane	11.181	107	87716	54.058	ug/l	100
64) Tetrachloroethene	10.810	164	117139	54.251	ug/l	100
65) Chlorobenzene	11.604	112	355230	54.200	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.681	131	128096	54.976	ug/l	100
67) Ethyl Benzene	11.681	91	626197	57.724	ug/l	100
68) m/p-Xylenes	11.792	106	498847	116.616	ug/l	100
69) o-Xylene	12.122	106	225557	58.063	ug/l	100
70) Styrene	12.134	104	400659	58.013	ug/l	100
71) Bromoform	12.298	173	71816	54.587	ug/l #	100
73) Isopropylbenzene	12.422	105	582614	57.759	ug/l	100
74) N-amyl acetate	12.234	43	119763	55.626	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.669	83	103619	53.130	ug/l	100
76) 1,2,3-Trichloropropane	12.722	75	67844m	51.819	ug/l	
77) Bromobenzene	12.698	156	150049	56.495	ug/l	100
78) n-propylbenzene	12.763	91	725594	58.130	ug/l	100
79) 2-Chlorotoluene	12.845	91	417350	56.254	ug/l	100
80) 1,3,5-Trimethylbenzene	12.904	105	498642	58.445	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.469	75	37130	54.847	ug/l	100
82) 4-Chlorotoluene	12.945	91	445736	56.578	ug/l	100
83) tert-Butylbenzene	13.163	119	430772	58.512	ug/l	100
84) 1,2,4-Trimethylbenzene	13.210	105	507108	58.466	ug/l	100
85) sec-Butylbenzene	13.345	105	641879	58.207	ug/l	100
86) p-Isopropyltoluene	13.457	119	545762	58.333	ug/l	100
87) 1,3-Dichlorobenzene	13.457	146	299441	54.486	ug/l	100
88) 1,4-Dichlorobenzene	13.534	146	293078	52.968	ug/l	100
89) n-Butylbenzene	13.786	91	504535	58.009	ug/l	100
90) Hexachloroethane	14.051	117	111967	54.883	ug/l	100
91) 1,2-Dichlorobenzene	13.828	146	268206	55.826	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.445	75	14909	50.070	ug/l	100
93) 1,2,4-Trichlorobenzene	15.098	180	161904	54.977	ug/l	100
94) Hexachlorobutadiene	15.204	225	88187	54.566	ug/l	100
95) Naphthalene	15.328	128	278279	56.123	ug/l	100
96) 1,2,3-Trichlorobenzene	15.522	180	143832	56.154	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080014.D
Acq On : 14 Nov 2024 19:22
Operator : RP/MD
Sample : VSTDICCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:56:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

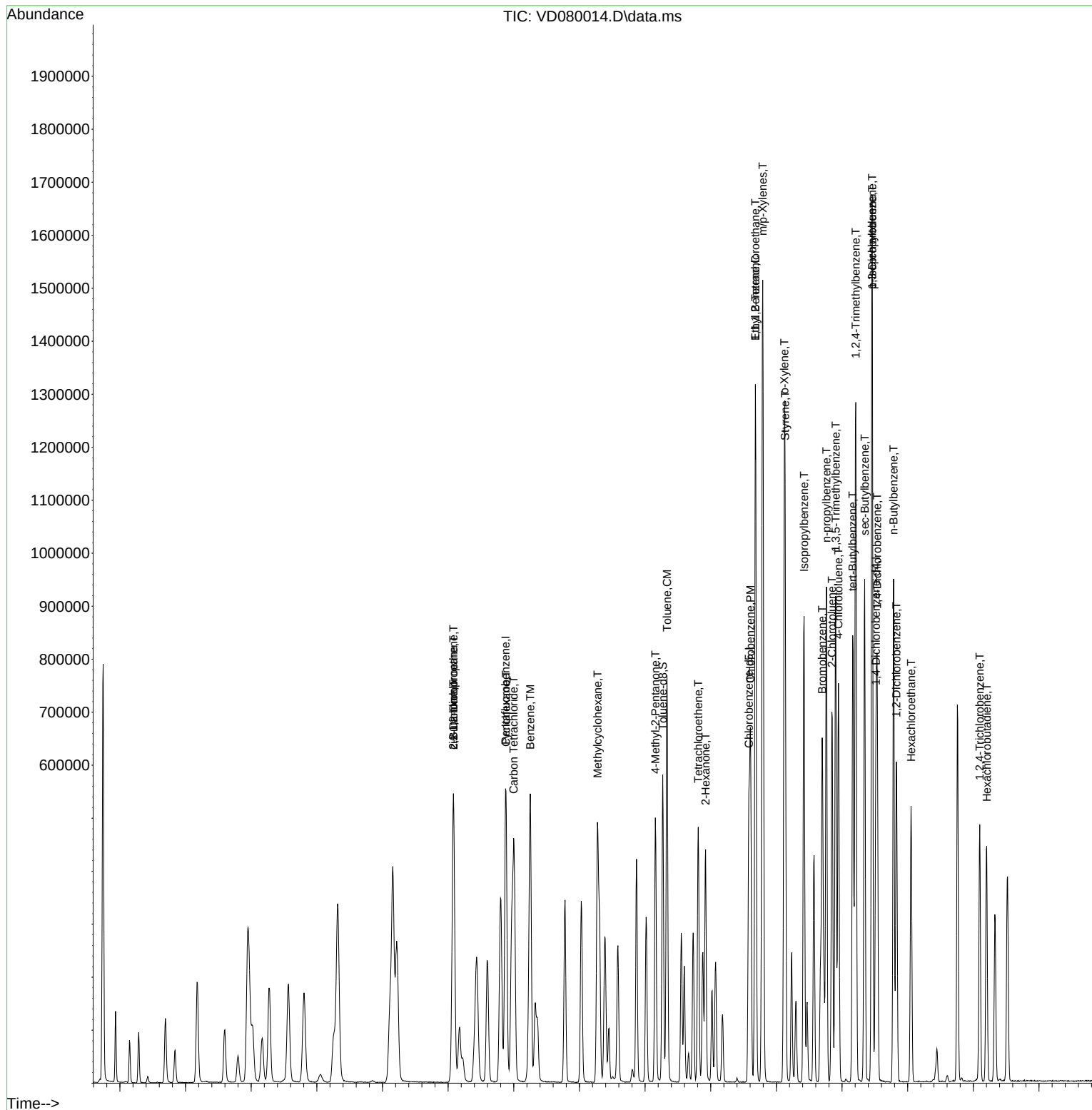
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080015.D
 Acq On : 14 Nov 2024 19:49
 Operator : RP/MD
 Sample : VSTDICC100
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC100

Quant Time: Nov 15 05:56:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 05:52:29 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

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

Internal Standards						
1) Pentafluorobenzene	7.881	168	227638	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	354140	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	325872	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	176457	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.234	65	207566	88.950	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 177.900%#	
35) Dibromofluoromethane	7.810	113	215046	90.832	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 181.660%#	
50) Toluene-d8	10.269	98	845419	94.384	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 188.760%#	
62) 4-Bromofluorobenzene	12.575	95	282236	93.939	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 187.880%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.934	85	157159	83.047	ug/l	97
3) Chloromethane	2.152	50	122026	87.782	ug/l	93
4) Vinyl Chloride	2.287	62	136246	83.617	ug/l	96
5) Bromomethane	2.687	94	137625	69.718	ug/l	100
6) Chloroethane	2.840	64	90515	81.878	ug/l	95
7) Trichlorofluoromethane	3.175	101	321011	82.293	ug/l	90
8) Diethyl Ether	3.593	74	107991	100.167	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.969	101	207655	84.343	ug/l	99
10) Methyl Iodide	4.163	142	287677	94.674	ug/l	99
11) Tert butyl alcohol	5.058	59	53743	447.331	ug/l #	85
12) 1,1-Dichloroethene	3.940	96	216968	91.839	ug/l	95
13) Acrolein	3.799	56	125521	570.898	ug/l	99
14) Allyl chloride	4.563	41	318947	99.578	ug/l	98
15) Acrylonitrile	5.258	53	235465	510.642	ug/l	99
16) Acetone	4.022	43	323382	513.022	ug/l	99
17) Carbon Disulfide	4.275	76	700569	90.005	ug/l	100
18) Methyl Acetate	4.563	43	106769	98.111	ug/l	99
19) Methyl tert-butyl Ether	5.322	73	480732	101.520	ug/l	99
20) Methylene Chloride	4.805	84	250052	86.025	ug/l	95
21) trans-1,2-Dichloroethene	5.316	96	242989	91.803	ug/l	97
22) Diisopropyl ether	6.222	45	655948	97.366	ug/l	97
23) Vinyl Acetate	6.157	43	1948609	514.468	ug/l	99
24) 1,1-Dichloroethane	6.110	63	407199	89.970	ug/l	97
25) 2-Butanone	7.081	43	360034	514.602	ug/l	97
26) 2,2-Dichloropropane	7.081	77	347740	85.905	ug/l	99
27) cis-1,2-Dichloroethene	7.081	96	283175	93.134	ug/l	99
28) Bromochloromethane	7.428	49	192869	95.013	ug/l	99
29) Tetrahydrofuran	7.446	42	180129	493.011	ug/l	98
30) Chloroform	7.599	83	431094	85.836	ug/l	98
31) Cyclohexane	7.881	56	333447	87.060	ug/l	99
32) 1,1,1-Trichloroethane	7.793	97	360229	85.928	ug/l	100
36) 1,1-Dichloropropene	8.010	75	303389	87.813	ug/l	99
37) Ethyl Acetate	7.169	43	130465	90.924	ug/l	97
38) Carbon Tetrachloride	7.993	117	314177	82.808	ug/l	91
39) Methylcyclohexane	9.275	83	367349	91.163	ug/l	97
40) Benzene	8.251	78	949953	89.004	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080015.D
 Acq On : 14 Nov 2024 19:49
 Operator : RP/MD
 Sample : VSTDICC100
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC100

Quant Time: Nov 15 05:56:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 05:52:29 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.404	41	76720	96.305	ug/l	94
42) 1,2-Dichloroethane	8.328	62	242536	86.742	ug/l	100
43) Isopropyl Acetate	8.363	43	242475	92.996	ug/l	99
44) Trichloroethene	9.028	130	241045	87.573	ug/l	95
45) 1,2-Dichloropropane	9.304	63	228088	89.802	ug/l	96
46) Dibromomethane	9.393	93	134444	90.065	ug/l	99
47) Bromodichloromethane	9.587	83	325889	87.091	ug/l	95
48) Methyl methacrylate	9.381	41	117113	100.497	ug/l	99
49) 1,4-Dioxane	9.387	88	27994	1968.303	ug/l	96
51) 4-Methyl-2-Pentanone	10.157	43	637277	485.000	ug/l	99
52) Toluene	10.334	92	616844	92.811	ug/l	98
53) t-1,3-Dichloropropene	10.551	75	303989	93.699	ug/l	97
54) cis-1,3-Dichloropropene	10.016	75	363193	93.418	ug/l	99
55) 1,1,2-Trichloroethane	10.734	97	170740	85.664	ug/l	97
56) Ethyl methacrylate	10.598	69	228662	100.907	ug/l	99
57) 1,3-Dichloropropane	10.881	76	289077	89.715	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.869	63	452869	559.630	ug/l	100
59) 2-Hexanone	10.922	43	528686	524.307	ug/l	99
60) Dibromochloromethane	11.075	129	235025	89.036	ug/l	97
61) 1,2-Dibromoethane	11.181	107	168291	89.950	ug/l	100
64) Tetrachloroethene	10.810	164	220152	89.506	ug/l	97
65) Chlorobenzene	11.604	112	670292	89.780	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.681	131	233621	88.018	ug/l	98
67) Ethyl Benzene	11.681	91	1177961	95.323	ug/l	100
68) m/p-Xylenes	11.792	106	926258	190.083	ug/l	99
69) o-Xylene	12.122	106	429993	97.168	ug/l	100
70) Styrene	12.134	104	763058	96.990	ug/l	99
71) Bromoform	12.298	173	133968	89.391	ug/l #	98
73) Isopropylbenzene	12.422	105	1081697	93.315	ug/l	99
74) N-amyl acetate	12.234	43	237673	96.060	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.669	83	194365	86.720	ug/l	98
76) 1,2,3-Trichloropropane	12.722	75	129018m	85.749	ug/l	
77) Bromobenzene	12.698	156	277137	90.798	ug/l	96
78) n-propylbenzene	12.763	91	1332748	92.910	ug/l	99
79) 2-Chlorotoluene	12.845	91	774118	90.796	ug/l	100
80) 1,3,5-Trimethylbenzene	12.904	105	923689	94.208	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.469	75	71380	91.750	ug/l	100
82) 4-Chlorotoluene	12.945	91	812011	89.689	ug/l	99
83) tert-Butylbenzene	13.163	119	801892	94.781	ug/l	99
84) 1,2,4-Trimethylbenzene	13.210	105	950637	95.373	ug/l	99
85) sec-Butylbenzene	13.345	105	1165410	91.962	ug/l	100
86) p-Isopropyltoluene	13.457	119	1013231	94.237	ug/l	100
87) 1,3-Dichlorobenzene	13.457	146	551352	87.299	ug/l	98
88) 1,4-Dichlorobenzene	13.534	146	537021	84.455	ug/l	100
89) n-Butylbenzene	13.786	91	931105	93.155	ug/l	99
90) Hexachloroethane	14.051	117	201104	85.778	ug/l	97
91) 1,2-Dichlorobenzene	13.828	146	478970	86.753	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.445	75	28468	83.194	ug/l	99
93) 1,2,4-Trichlorobenzene	15.098	180	311311	91.985	ug/l	100
94) Hexachlorobutadiene	15.198	225	159481	85.867	ug/l	99
95) Naphthalene	15.328	128	569973	100.027	ug/l	97
96) 1,2,3-Trichlorobenzene	15.522	180	273965	93.074	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080015.D
Acq On : 14 Nov 2024 19:49
Operator : RP/MD
Sample : VSTDICC100
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:56:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

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

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

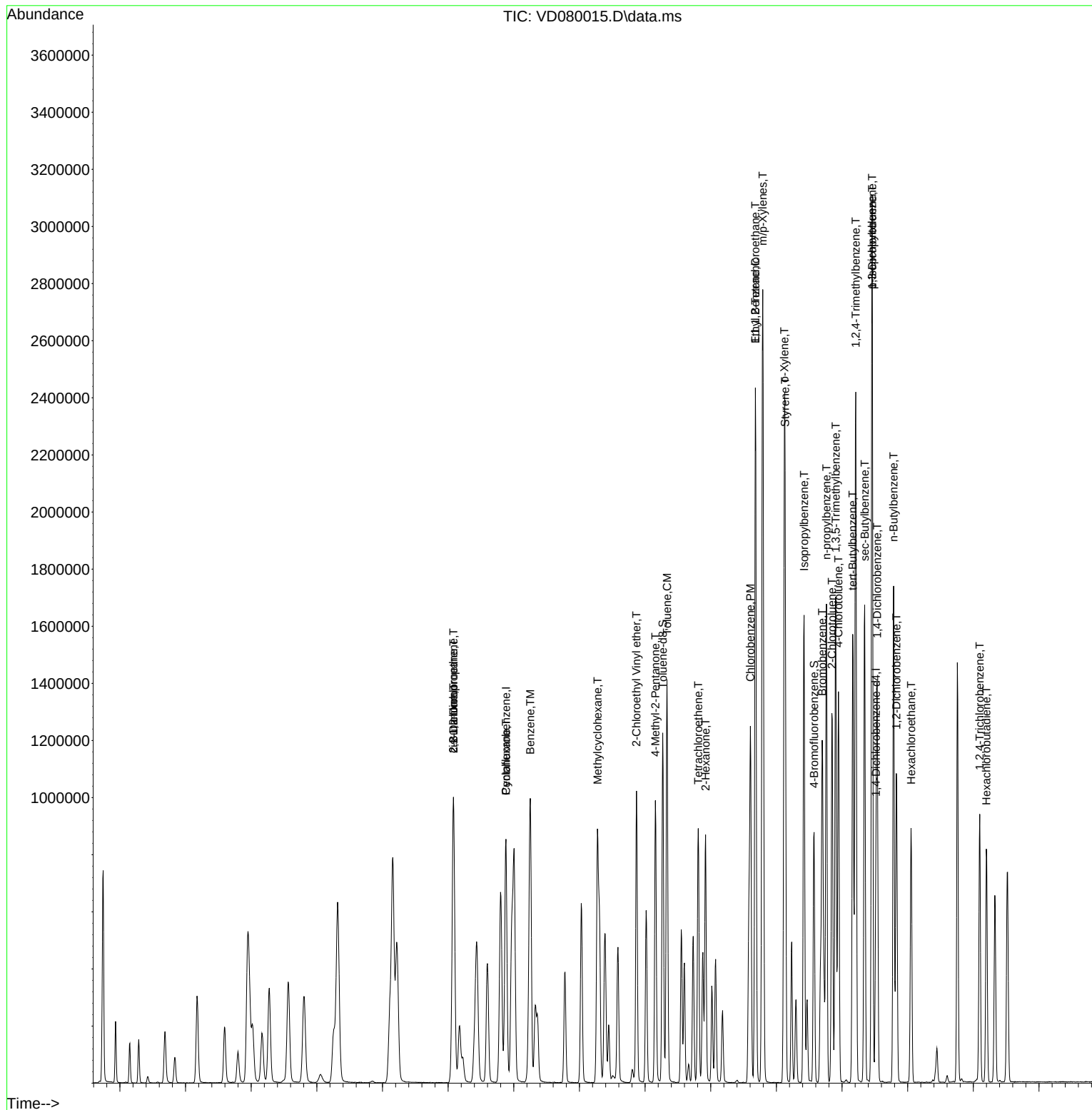
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080015.D
Acq On : 14 Nov 2024 19:49
Operator : RP/MD
Sample : VSTDICC100
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By : Mahesh Dadoda 11/18/2024
Supervised By : Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:56:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080016.D
 Acq On : 14 Nov 2024 20:16
 Operator : RP/MD
 Sample : VSTDICC150
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:57:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 05:52:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	226312	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	341604	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	319279	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	162875	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	345148	148.775	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	297.560%#
35) Dibromofluoromethane	7.805	113	361322	158.217	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	316.440%#
50) Toluene-d8	10.269	98	1429048	165.396	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	330.800%#
62) 4-Bromofluorobenzene	12.575	95	472915	163.181	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	326.360%#

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.934	85	273099	145.158	ug/l	99
3) Chloromethane	2.146	50	185111	133.943	ug/l	98
4) Vinyl Chloride	2.287	62	213698	131.919	ug/l	98
5) Bromomethane	2.675	94	223047	113.653	ug/l	99
6) Chloroethane	2.834	64	140279	127.637	ug/l	94
7) Trichlorofluoromethane	3.175	101	530381	136.763	ug/l	91
8) Diethyl Ether	3.593	74	166050	154.921	ug/l	92
9) 1,1,2-Trichlorotrifluo...	3.969	101	344387	140.699	ug/l	93
10) Methyl Iodide	4.164	142	534381	151.365	ug/l	97
11) Tert butyl alcohol	5.063	59	83643	700.284	ug/l #	86
12) 1,1-Dichloroethene	3.940	96	356804	151.915	ug/l	88
13) Acrolein	3.799	56	165166	755.613	ug/l	99
14) Allyl chloride	4.564	41	551174	173.090	ug/l	100
15) Acrylonitrile	5.258	53	375246	818.547	ug/l	100
16) Acetone	4.022	43	389707	736.544	ug/l	95
17) Carbon Disulfide	4.275	76	1111288	143.609	ug/l	100
18) Methyl Acetate	4.564	43	171485	158.502	ug/l	99
19) Methyl tert-butyl Ether	5.316	73	799746	169.877	ug/l	98
20) Methylene Chloride	4.805	84	410444	142.033	ug/l	97
21) trans-1,2-Dichloroethene	5.316	96	413373	157.090	ug/l	98
22) Diisopropyl ether	6.216	45	1094236	163.375	ug/l	99
23) Vinyl Acetate	6.158	43	3161389	839.554	ug/l	99
24) 1,1-Dichloroethane	6.116	63	686131	152.487	ug/l	97
25) 2-Butanone	7.081	43	547803	787.571	ug/l	97
26) 2,2-Dichloropropane	7.081	77	590404	146.706	ug/l	98
27) cis-1,2-Dichloroethene	7.081	96	481387	159.251	ug/l	99
28) Bromochloromethane	7.428	49	268169	132.883	ug/l	98
29) Tetrahydrofuran	7.446	42	280733	772.865	ug/l	98
30) Chloroform	7.599	83	720418	144.284	ug/l	98
31) Cyclohexane	7.881	56	575006	151.009	ug/l	99
32) 1,1,1-Trichloroethane	7.793	97	614937	147.545	ug/l	99
36) 1,1-Dichloropropene	8.010	75	513871	154.193	ug/l	100
37) Ethyl Acetate	7.175	43	201245	145.400	ug/l	97
38) Carbon Tetrachloride	7.993	117	542420	148.213	ug/l	94
39) Methylcyclohexane	9.275	83	657730	169.216	ug/l	99
40) Benzene	8.252	78	1619312	157.286	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080016.D
 Acq On : 14 Nov 2024 20:16
 Operator : RP/MD
 Sample : VSTDICC150
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC150

Quant Time: Nov 15 05:57:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 05:52:29 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.399	41	112669	146.621	ug/l	98
42) 1,2-Dichloroethane	8.328	62	397083	147.226	ug/l	99
43) Isopropyl Acetate	8.363	43	388928	154.638	ug/l	99
44) Trichloroethene	9.028	130	409177	154.111	ug/l	96
45) 1,2-Dichloropropane	9.304	63	379540	154.915	ug/l	98
46) Dibromomethane	9.393	93	215256	149.493	ug/l	99
47) Bromodichloromethane	9.587	83	549939	152.360	ug/l	99
48) Methyl methacrylate	9.381	41	193027	171.718	ug/l	98
49) 1,4-Dioxane	9.387	88	42945	3130.342	ug/l	97
51) 4-Methyl-2-Pentanone	10.157	43	995981	785.808	ug/l	98
52) Toluene	10.334	92	1047478	163.389	ug/l	98
53) t-1,3-Dichloropropene	10.551	75	513701	164.149	ug/l	97
54) cis-1,3-Dichloropropene	10.016	75	608395	162.230	ug/l	99
55) 1,1,2-Trichloroethane	10.734	97	282953	147.173	ug/l	97
56) Ethyl methacrylate	10.598	69	371648	170.025	ug/l	98
57) 1,3-Dichloropropane	10.881	76	482430	155.216	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.869	63	685621	878.344	ug/l	99
59) 2-Hexanone	10.922	43	778628	800.515	ug/l	98
60) Dibromochloromethane	11.075	129	383395	150.574	ug/l	98
61) 1,2-Dibromoethane	11.181	107	274148	151.906	ug/l	99
64) Tetrachloroethene	10.810	164	362996	150.628	ug/l	95
65) Chlorobenzene	11.604	112	1132662	154.843	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.681	131	400399	153.967	ug/l	99
67) Ethyl Benzene	11.681	91	2040746	168.552	ug/l	98
68) m/p-Xylenes	11.793	106	1574982	329.885	ug/l	99
69) o-Xylene	12.122	106	746360	172.143	ug/l	100
70) Styrene	12.134	104	1305941	169.422	ug/l	98
71) Bromoform	12.298	173	218732	148.964	ug/l #	99
73) Isopropylbenzene	12.416	105	1882432	175.935	ug/l	99
74) N-amyl acetate	12.234	43	379420	166.138	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.669	83	308208	148.981	ug/l	97
76) 1,2,3-Trichloropropane	12.722	75	201561m	145.135	ug/l	
77) Bromobenzene	12.698	156	465296	165.156	ug/l	99
78) n-propylbenzene	12.763	91	2258034	170.541	ug/l	99
79) 2-Chlorotoluene	12.845	91	1323867	168.224	ug/l	100
80) 1,3,5-Trimethylbenzene	12.904	105	1589836	175.671	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.469	75	114374	159.273	ug/l	98
82) 4-Chlorotoluene	12.945	91	1375857	164.640	ug/l	99
83) tert-Butylbenzene	13.163	119	1355624	173.592	ug/l	97
84) 1,2,4-Trimethylbenzene	13.210	105	1629451	177.107	ug/l	100
85) sec-Butylbenzene	13.345	105	2021516	172.819	ug/l	100
86) p-Isopropyltoluene	13.457	119	1745948	175.926	ug/l	99
87) 1,3-Dichlorobenzene	13.457	146	933982	160.215	ug/l	98
88) 1,4-Dichlorobenzene	13.534	146	900608	153.445	ug/l	99
89) n-Butylbenzene	13.787	91	1602847	173.733	ug/l	99
90) Hexachloroethane	14.051	117	340255	157.232	ug/l	98
91) 1,2-Dichlorobenzene	13.828	146	792989	155.606	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.445	75	46800	148.171	ug/l	98
93) 1,2,4-Trichlorobenzene	15.098	180	528877	169.303	ug/l	99
94) Hexachlorobutadiene	15.198	225	276433	161.248	ug/l	99
95) Naphthalene	15.328	128	943663	179.418	ug/l	97
96) 1,2,3-Trichlorobenzene	15.516	180	463992	170.776	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080016.D
Acq On : 14 Nov 2024 20:16
Operator : RP/MD
Sample : VSTDICC150
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:57:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration

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

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

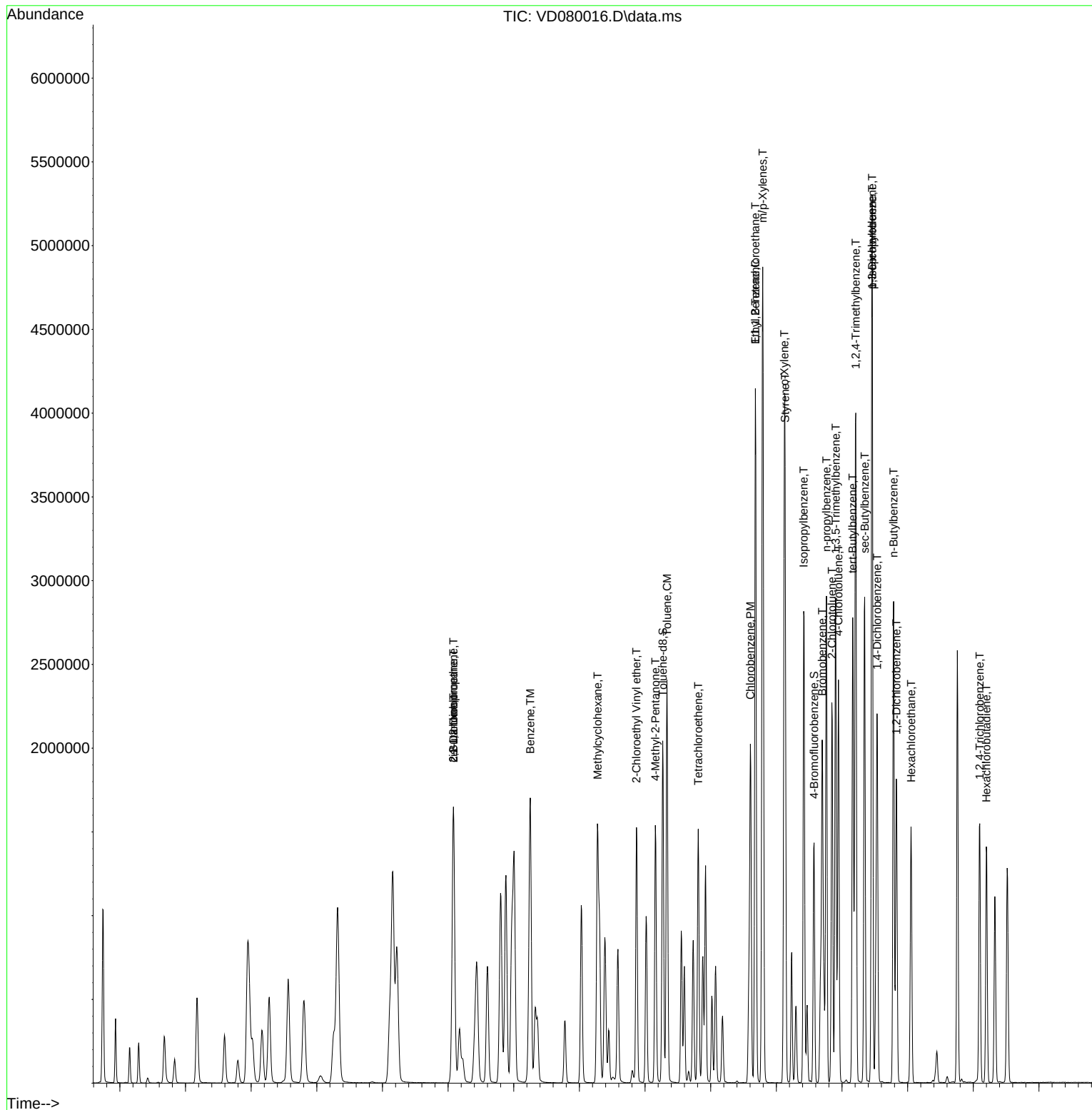
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Data File : VD080016.D
Acq On : 14 Nov 2024 20:16
Operator : RP/MD
Sample : VSTDICC150
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 05:57:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 05:52:29 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080017.D
 Acq On : 14 Nov 2024 20:43
 Operator : RP/MD
 Sample : VSTDICV050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD111524

Quant Time: Nov 15 06:41:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 06:28:05 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	244193	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	389195	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	361884	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	183572	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.234	65	116101	46.380	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	92.760%
35) Dibromofluoromethane	7.810	113	122552	47.101	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	94.200%
50) Toluene-d8	10.269	98	474473	48.200	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.400%
62) 4-Bromofluorobenzene	12.569	95	156455	47.384	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	94.760%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.934	85	101338	49.919	ug/l	99
3) Chloromethane	2.146	50	68439	45.895	ug/l	100
4) Vinyl Chloride	2.287	62	78620	44.980	ug/l	97
5) Bromomethane	2.693	94	82968	39.180	ug/l	98
6) Chloroethane	2.840	64	53701	45.283	ug/l	97
7) Trichlorofluoromethane	3.181	101	206816	49.424	ug/l	92
8) Diethyl Ether	3.593	74	63983	55.324	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.969	101	130426	49.384	ug/l	99
10) Methyl Iodide	4.169	142	166750	58.133	ug/l	98
11) Tert butyl alcohol	5.052	59	33408	259.221	ug/l #	86
12) 1,1-Dichloroethene	3.946	96	134459	53.056	ug/l	92
13) Acrolein	3.799	56	74316	315.091	ug/l	100
14) Allyl chloride	4.569	41	189573	55.174	ug/l	99
15) Acrylonitrile	5.252	53	137933	278.850	ug/l	99
16) Acetone	4.022	43	179902	235.032	ug/l	100
17) Carbon Disulfide	4.275	76	431645	51.696	ug/l	98
18) Methyl Acetate	4.564	43	64239	55.028	ug/l	99
19) Methyl tert-butyl Ether	5.316	73	282228	55.559	ug/l	97
20) Methylene Chloride	4.805	84	151056	48.445	ug/l	93
21) trans-1,2-Dichloroethene	5.316	96	146575	51.623	ug/l	99
22) Diisopropyl ether	6.222	45	387995	53.688	ug/l	97
23) Vinyl Acetate	6.158	43	1126759	277.317	ug/l	100
24) 1,1-Dichloroethane	6.116	63	245718	50.610	ug/l	98
25) 2-Butanone	7.081	43	202634	269.993	ug/l	96
26) 2,2-Dichloropropane	7.081	77	205770	47.387	ug/l	99
27) cis-1,2-Dichloroethene	7.087	96	167299	51.293	ug/l	100
28) Bromochloromethane	7.428	49	99887	45.871	ug/l	99
29) Tetrahydrofuran	7.446	42	105150	268.283	ug/l	97
30) Chloroform	7.599	83	256281	47.569	ug/l	99
31) Cyclohexane	7.881	56	204292	49.723	ug/l	98
32) 1,1,1-Trichloroethane	7.799	97	214106	47.610	ug/l	99
36) 1,1-Dichloropropene	8.010	75	182476	48.059	ug/l	99
37) Ethyl Acetate	7.175	43	75498	47.877	ug/l	98
38) Carbon Tetrachloride	7.993	117	191752	45.988	ug/l	95
39) Methylcyclohexane	9.275	83	231781	52.339	ug/l	99
40) Benzene	8.252	78	563121	48.008	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080017.D
 Acq On : 14 Nov 2024 20:43
 Operator : RP/MD
 Sample : VSTDICV050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD111524

Quant Time: Nov 15 06:41:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 06:28:05 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.405	41	45652	54.155	ug/l	90
42) 1,2-Dichloroethane	8.328	62	143676	46.757	ug/l	99
43) Isopropyl Acetate	8.363	43	142627	49.774	ug/l	100
44) Trichloroethene	9.034	130	143864	47.559	ug/l	98
45) 1,2-Dichloropropane	9.304	63	133589	47.859	ug/l	95
46) Dibromomethane	9.393	93	78959	48.131	ug/l	98
47) Bromodichloromethane	9.587	83	193303	47.006	ug/l	98
48) Methyl methacrylate	9.381	41	68420	53.424	ug/l	97
49) 1,4-Dioxane	9.381	88	14666	938.310	ug/l	99
51) 4-Methyl-2-Pentanone	10.157	43	369264	255.716	ug/l	98
52) Toluene	10.334	92	356677	48.832	ug/l	99
53) t-1,3-Dichloropropene	10.551	75	176151	49.405	ug/l	100
54) cis-1,3-Dichloropropene	10.016	75	209186	48.959	ug/l	99
55) 1,1,2-Trichloroethane	10.734	97	101783	46.467	ug/l	96
56) Ethyl methacrylate	10.599	69	130374	52.351	ug/l	97
57) 1,3-Dichloropropane	10.881	76	171963	48.562	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.869	63	213360	239.910	ug/l	99
59) 2-Hexanone	10.922	43	294115	265.407	ug/l	99
60) Dibromochloromethane	11.075	129	134532	46.375	ug/l	99
61) 1,2-Dibromoethane	11.181	107	99426	48.356	ug/l	97
64) Tetrachloroethene	10.810	164	127975	46.852	ug/l	96
65) Chlorobenzene	11.604	112	401764	48.458	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.681	131	135431	45.947	ug/l	98
67) Ethyl Benzene	11.681	91	669802	48.808	ug/l	99
68) m/p-Xylenes	11.793	106	528345	97.635	ug/l	98
69) o-Xylene	12.116	106	245639	49.985	ug/l	100
70) Styrene	12.134	104	434113	49.688	ug/l	99
71) Bromoform	12.298	173	77620	46.638	ug/l #	99
73) Isopropylbenzene	12.416	105	635429	52.692	ug/l	100
74) N-amyl acetate	12.234	43	137462	53.405	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.669	83	112154	48.101	ug/l	96
76) 1,2,3-Trichloropropane	12.722	75	70975m	45.344	ug/l	
77) Bromobenzene	12.698	156	160689	50.606	ug/l	98
78) n-propylbenzene	12.763	91	778795	52.188	ug/l	99
79) 2-Chlorotoluene	12.845	91	452375	51.002	ug/l	99
80) 1,3,5-Trimethylbenzene	12.904	105	538503	52.794	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.469	75	40839	50.459	ug/l	98
82) 4-Chlorotoluene	12.945	91	479247	50.883	ug/l	100
83) tert-Butylbenzene	13.163	119	450778	51.215	ug/l	96
84) 1,2,4-Trimethylbenzene	13.210	105	542659	52.332	ug/l	100
85) sec-Butylbenzene	13.340	105	694307	52.664	ug/l	99
86) p-Isopropyltoluene	13.457	119	588614	52.623	ug/l	99
87) 1,3-Dichlorobenzene	13.457	146	317472	48.319	ug/l	99
88) 1,4-Dichlorobenzene	13.534	146	309159	46.736	ug/l	100
89) n-Butylbenzene	13.787	91	549076	52.805	ug/l	99
90) Hexachloroethane	14.051	117	115994	47.558	ug/l	98
91) 1,2-Dichlorobenzene	13.828	146	276853	48.201	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.445	75	17466	49.064	ug/l	96
93) 1,2,4-Trichlorobenzene	15.098	180	183105	52.006	ug/l	99
94) Hexachlorobutadiene	15.198	225	99172	51.326	ug/l	98
95) Naphthalene	15.328	128	325827	54.965	ug/l	97
96) 1,2,3-Trichlorobenzene	15.516	180	162524	53.074	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080017.D
Acq On : 14 Nov 2024 20:43
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
ICVVD111524

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 06:28:05 2024
Response via : Initial Calibration

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

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

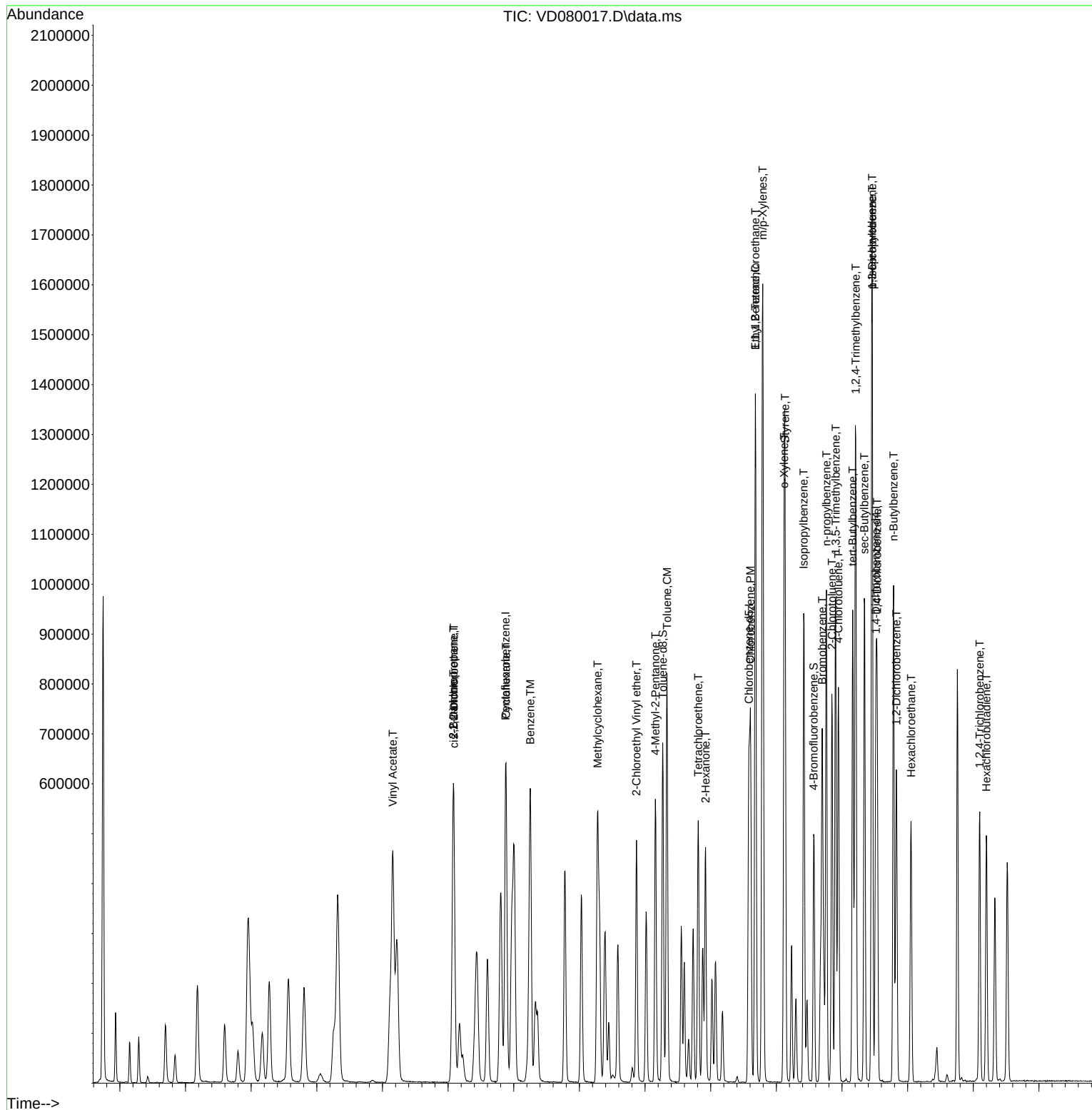
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080017.D
Acq On    : 14 Nov 2024   20:43
Operator  : RP/MD
Sample    : VSTDICV050
Misc      : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial  : 8   Sample Multiplier: 1
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Instrument :
MSVOA_D
ClientSampleId :
ICVVD111524

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
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Quant Time: Nov 15 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 06:28:05 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080017.D
 Acq On : 14 Nov 2024 20:43
 Operator : RP/MD
 Sample : VSTDICV050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD111524

Quant Time: Nov 15 06:41:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 06:28:05 2024
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	120	0.00
2 T	Dichlorodifluoromethane	0.416	0.415	0.2	106	0.00
3 P	Chloromethane	0.305	0.280	8.2	100	0.00
4 C	Vinyl Chloride	0.358	0.322	10.1#	96	0.00
5 T	Bromomethane	0.434	0.340	21.7	96	0.00
6 T	Chloroethane	0.243	0.220	9.5	93	0.00
7 T	Trichlorofluoromethane	0.857	0.847	1.2	108	0.00
8 T	Diethyl Ether	0.237	0.262	-10.5	120	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.541	0.534	1.3	112	0.00
10 T	Methyl Iodide	0.480	0.683	-42.3#	120	0.00
11 T	Tert butyl alcohol	0.026	0.027	-3.8	121	0.00
12 CM	1,1-Dichloroethene	0.519	0.551	-6.2#	116	0.00
13 T	Acrolein	0.048	0.061	-27.1#	126	0.00
14 T	Allyl chloride	0.704	0.776	-10.2	114	0.00
15 T	Acrylonitrile	0.101	0.113	-11.9	119	0.00
16 T	Acetone	0.119	0.147	-23.5	110	0.00
17 T	Carbon Disulfide	1.710	1.768	-3.4	111	0.00
18 T	Methyl Acetate	0.239	0.263	-10.0	118	0.00
19 T	Methyl tert-butyl Ether	1.040	1.156	-11.2	117	0.00
20 T	Methylene Chloride	0.638	0.619	3.0	111	0.00
21 T	trans-1,2-Dichloroethene	0.581	0.600	-3.3	110	0.00
22 T	Diisopropyl ether	1.480	1.589	-7.4	111	0.00
23 T	Vinyl Acetate	0.832	0.923	-10.9	114	0.00
24 P	1,1-Dichloroethane	0.994	1.006	-1.2	112	0.00
25 T	2-Butanone	0.154	0.166	-7.8	111	0.00
26 T	2,2-Dichloropropane	0.889	0.843	5.2	108	0.00
27 T	cis-1,2-Dichloroethene	0.668	0.685	-2.5	112	0.00
28 T	Bromochloromethane	0.446	0.409	8.3	111	0.00
29 T	Tetrahydrofuran	0.080	0.086	-7.5	117	0.00
30 C	Chloroform	1.103	1.050	4.8#	108	0.00
31 T	Cyclohexane	0.841	0.837	0.5	111	0.00
32 T	1,1,1-Trichloroethane	0.921	0.877	4.8	106	0.00
33 S	1,2-Dichloroethane-d4	0.513	0.475	7.4	118	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	127	0.00
35 S	Dibromofluoromethane	0.334	0.315	5.7	119	0.00
36 T	1,1-Dichloropropene	0.488	0.469	3.9	108	0.00
37 T	Ethyl Acetate	0.203	0.194	4.4	115	0.00
38 T	Carbon Tetrachloride	0.536	0.493	8.0	109	0.00
39 T	Methylcyclohexane	0.569	0.596	-4.7	117	0.00
40 TM	Benzene	1.507	1.447	4.0	108	0.00
41 T	Methacrylonitrile	0.108	0.117	-8.3	133	0.00
42 TM	1,2-Dichloroethane	0.395	0.369	6.6	109	0.00
43 T	Isopropyl Acetate	0.368	0.366	0.5	116	0.00
44 TM	Trichloroethene	0.389	0.370	4.9	110	0.00
45 C	1,2-Dichloropropane	0.359	0.343	4.5#	108	0.00
46 T	Dibromomethane	0.211	0.203	3.8	111	0.00
47 T	Bromodichloromethane	0.528	0.497	5.9	107	0.00
48 T	Methyl methacrylate	0.165	0.176	-6.7	117	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080017.D
 Acq On : 14 Nov 2024 20:43
 Operator : RP/MD
 Sample : VSTDICV050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD111524

Quant Time: Nov 15 06:41:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 06:28:05 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	107	0.00
50 S	Toluene-d8	1.265	1.219	3.6	120	0.00
51 T	4-Methyl-2-Pentanone	0.186	0.190	-2.2	114	0.00
52 CM	Toluene	0.938	0.916	2.3#	107	0.00
53 T	t-1,3-Dichloropropene	0.458	0.453	1.1	111	0.00
54 T	cis-1,3-Dichloropropene	0.549	0.537	2.2	109	0.00
55 T	1,1,2-Trichloroethane	0.281	0.262	6.8	111	0.00
56 T	Ethyl methacrylate	0.320	0.335	-4.7	114	0.00
57 T	1,3-Dichloropropane	0.455	0.442	2.9	112	0.00
58 T	2-Chloroethyl Vinyl ether	0.114	0.110	3.5	116	0.00
59 T	2-Hexanone	0.142	0.151	-6.3	111	0.00
60 T	Dibromochloromethane	0.373	0.346	7.2	109	0.00
61 T	1,2-Dibromoethane	0.264	0.255	3.4	113	0.00
62 S	4-Bromofluorobenzene	0.424	0.402	5.2	117	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	127	0.00
64 T	Tetrachloroethene	0.377	0.354	6.1	109	0.00
65 PM	Chlorobenzene	1.146	1.110	3.1	113	0.00
66 T	1,1,1,2-Tetrachloroethane	0.407	0.374	8.1	106	0.00
67 C	Ethyl Benzene	1.896	1.851	2.4#	107	0.00
68 T	m/p-Xylenes	0.748	0.730	2.4	106	0.00
69 T	o-Xylene	0.679	0.679	0.0	109	0.00
70 T	Styrene	1.207	1.200	0.6	108	0.00
71 P	Bromoform	0.230	0.214	7.0	108	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	120	0.00
73 T	Isopropylbenzene	3.285	3.461	-5.4	109	0.00
74 T	N-amyl acetate	0.701	0.749	-6.8	115	0.00
75 P	1,1,2,2-Tetrachloroethane	0.635	0.611	3.8	108	0.00
76 T	1,2,3-Trichloropropane	0.426	0.387	9.2	105	0.00
77 T	Bromobenzene	0.865	0.875	-1.2	107	0.00
78 T	n-propylbenzene	4.065	4.242	-4.4	107	0.00
79 T	2-Chlorotoluene	2.416	2.464	-2.0	108	0.00
80 T	1,3,5-Trimethylbenzene	2.778	2.933	-5.6	108	0.00
81 T	trans-1,4-Dichloro-2-butene	0.220	0.222	-0.9	110	0.00
82 T	4-Chlorotoluene	2.565	2.611	-1.8	108	0.00
83 T	tert-Butylbenzene	2.397	2.456	-2.5	105	0.00
84 T	1,2,4-Trimethylbenzene	2.824	2.956	-4.7	107	0.00
85 T	sec-Butylbenzene	3.591	3.782	-5.3	108	0.00
86 T	p-Isopropyltoluene	3.047	3.206	-5.2	108	0.00
87 T	1,3-Dichlorobenzene	1.790	1.729	3.4	106	0.00
88 T	1,4-Dichlorobenzene	1.802	1.684	6.5	105	0.00
89 T	n-Butylbenzene	2.832	2.991	-5.6	109	0.00
90 T	Hexachloroethane	0.664	0.632	4.8	104	0.00
91 T	1,2-Dichlorobenzene	1.564	1.508	3.6	103	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.097	0.095	2.1	117	0.00
93 T	1,2,4-Trichlorobenzene	0.959	0.997	-4.0	113	0.00
94 T	Hexachlorobutadiene	0.526	0.540	-2.7	112	0.00
95 T	Naphthalene	1.615	1.775	-9.9	117	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080017.D
Acq On : 14 Nov 2024 20:43
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
ICVVD111524

Quant Time: Nov 15 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 06:28:05 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	0.834	0.885	-6.1	113	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080017.D
 Acq On : 14 Nov 2024 20:43
 Operator : RP/MD
 Sample : VSTDICV050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD111524

Quant Time: Nov 15 06:41:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 06:28:05 2024
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	120	0.00
2 T	Dichlorodifluoromethane	50.000	49.919	0.2	106	0.00
3 P	Chloromethane	50.000	45.895	8.2	100	0.00
4 C	Vinyl Chloride	50.000	44.980	10.0#	96	0.00
5 T	Bromomethane	50.000	39.180	21.6	96	0.00
6 T	Chloroethane	50.000	45.283	9.4	93	0.00
7 T	Trichlorofluoromethane	50.000	49.424	1.2	108	0.00
8 T	Diethyl Ether	50.000	55.324	-10.6	120	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.384	1.2	112	0.00
10 T	Methyl Iodide	50.000	58.133	-16.3	120	0.00
11 T	Tert butyl alcohol	250.000	259.221	-3.7	121	0.00
12 CM	1,1-Dichloroethene	50.000	53.056	-6.1#	116	0.00
13 T	Acrolein	250.000	315.091	-26.0#	126	0.00
14 T	Allyl chloride	50.000	55.174	-10.3	114	0.00
15 T	Acrylonitrile	250.000	278.850	-11.5	119	0.00
16 T	Acetone	250.000	235.032	6.0	110	0.00
17 T	Carbon Disulfide	50.000	51.696	-3.4	111	0.00
18 T	Methyl Acetate	50.000	55.028	-10.1	118	0.00
19 T	Methyl tert-butyl Ether	50.000	55.559	-11.1	117	0.00
20 T	Methylene Chloride	50.000	48.445	3.1	111	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.623	-3.2	110	0.00
22 T	Diisopropyl ether	50.000	53.688	-7.4	111	0.00
23 T	Vinyl Acetate	250.000	277.317	-10.9	114	0.00
24 P	1,1-Dichloroethane	50.000	50.610	-1.2	112	0.00
25 T	2-Butanone	250.000	269.993	-8.0	111	0.00
26 T	2,2-Dichloropropane	50.000	47.387	5.2	108	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.293	-2.6	112	0.00
28 T	Bromochloromethane	50.000	45.871	8.3	111	0.00
29 T	Tetrahydrofuran	250.000	268.283	-7.3	117	0.00
30 C	Chloroform	50.000	47.569	4.9#	108	0.00
31 T	Cyclohexane	50.000	49.723	0.6	111	0.00
32 T	1,1,1-Trichloroethane	50.000	47.610	4.8	106	0.00
33 S	1,2-Dichloroethane-d4	50.000	46.380	7.2	118	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	127	0.00
35 S	Dibromofluoromethane	50.000	47.101	5.8	119	0.00
36 T	1,1-Dichloropropene	50.000	48.059	3.9	108	0.00
37 T	Ethyl Acetate	50.000	47.877	4.2	115	0.00
38 T	Carbon Tetrachloride	50.000	45.988	8.0	109	0.00
39 T	Methylcyclohexane	50.000	52.339	-4.7	117	0.00
40 TM	Benzene	50.000	48.008	4.0	108	0.00
41 T	Methacrylonitrile	50.000	54.155	-8.3	133	0.00
42 TM	1,2-Dichloroethane	50.000	46.757	6.5	109	0.00
43 T	Isopropyl Acetate	50.000	49.774	0.5	116	0.00
44 TM	Trichloroethene	50.000	47.559	4.9	110	0.00
45 C	1,2-Dichloropropane	50.000	47.859	4.3#	108	0.00
46 T	Dibromomethane	50.000	48.131	3.7	111	0.00
47 T	Bromodichloromethane	50.000	47.006	6.0	107	0.00
48 T	Methyl methacrylate	50.000	53.424	-6.8	117	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080017.D
 Acq On : 14 Nov 2024 20:43
 Operator : RP/MD
 Sample : VSTDICV050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD111524

Quant Time: Nov 15 06:41:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 06:28:05 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	938.310	6.2	107	0.00
50 S	Toluene-d8	50.000	48.200	3.6	120	0.00
51 T	4-Methyl-2-Pentanone	250.000	255.716	-2.3	114	0.00
52 CM	Toluene	50.000	48.832	2.3#	107	0.00
53 T	t-1,3-Dichloropropene	50.000	49.405	1.2	111	0.00
54 T	cis-1,3-Dichloropropene	50.000	48.959	2.1	109	0.00
55 T	1,1,2-Trichloroethane	50.000	46.467	7.1	111	0.00
56 T	Ethyl methacrylate	50.000	52.351	-4.7	114	0.00
57 T	1,3-Dichloropropane	50.000	48.562	2.9	112	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	239.910	4.0	116	0.00
59 T	2-Hexanone	250.000	265.407	-6.2	111	0.00
60 T	Dibromochloromethane	50.000	46.375	7.2	109	0.00
61 T	1,2-Dibromoethane	50.000	48.356	3.3	113	0.00
62 S	4-Bromofluorobenzene	50.000	47.384	5.2	117	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	127	0.00
64 T	Tetrachloroethene	50.000	46.852	6.3	109	0.00
65 PM	Chlorobenzene	50.000	48.458	3.1	113	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	45.947	8.1	106	0.00
67 C	Ethyl Benzene	50.000	48.808	2.4#	107	0.00
68 T	m/p-Xylenes	100.000	97.635	2.4	106	0.00
69 T	o-Xylene	50.000	49.985	0.0	109	0.00
70 T	Styrene	50.000	49.688	0.6	108	0.00
71 P	Bromoform	50.000	46.638	6.7	108	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	120	0.00
73 T	Isopropylbenzene	50.000	52.692	-5.4	109	0.00
74 T	N-amyl acetate	50.000	53.405	-6.8	115	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.101	3.8	108	0.00
76 T	1,2,3-Trichloropropane	50.000	45.344	9.3	105	0.00
77 T	Bromobenzene	50.000	50.606	-1.2	107	0.00
78 T	n-propylbenzene	50.000	52.188	-4.4	107	0.00
79 T	2-Chlorotoluene	50.000	51.002	-2.0	108	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.794	-5.6	108	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	50.459	-0.9	110	0.00
82 T	4-Chlorotoluene	50.000	50.883	-1.8	108	0.00
83 T	tert-Butylbenzene	50.000	51.215	-2.4	105	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.332	-4.7	107	0.00
85 T	sec-Butylbenzene	50.000	52.664	-5.3	108	0.00
86 T	p-Isopropyltoluene	50.000	52.623	-5.2	108	0.00
87 T	1,3-Dichlorobenzene	50.000	48.319	3.4	106	0.00
88 T	1,4-Dichlorobenzene	50.000	46.736	6.5	105	0.00
89 T	n-Butylbenzene	50.000	52.805	-5.6	109	0.00
90 T	Hexachloroethane	50.000	47.558	4.9	104	0.00
91 T	1,2-Dichlorobenzene	50.000	48.201	3.6	103	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.064	1.9	117	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.006	-4.0	113	0.00
94 T	Hexachlorobutadiene	50.000	51.326	-2.7	112	0.00
95 T	Naphthalene	50.000	54.965	-9.9	117	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080017.D
Acq On : 14 Nov 2024 20:43
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
ICVVD111524

Quant Time: Nov 15 06:41:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 06:28:05 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	53.074	-6.1	113	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080020.D
 Acq On : 15 Nov 2024 10:04
 Operator : RP/MD
 Sample : VSTDICC005
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC005

Quant Time: Nov 15 16:08:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:08:17 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

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

Internal Standards						
1) Pentafluorobenzene	7.881	168	189713	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	311169	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	273942	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	133328	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	10505	5.378	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	10.760%#
35) Dibromofluoromethane	7.810	113	10411	5.027	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	10.060%#
50) Toluene-d8	10.269	98	36171	4.634	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	9.260%#
62) 4-Bromofluorobenzene	12.575	95	12083	4.718	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	9.440%#

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.940	85	8819	5.792	ug/l	99
3) Chloromethane	2.152	50	6261	5.592	ug/l	100
4) Vinyl Chloride	2.293	62	7155	5.597	ug/l	97
5) Bromomethane	2.699	94	8552	5.560	ug/l	94
6) Chloroethane	2.846	64	4824	5.280	ug/l #	70
7) Trichlorofluoromethane	3.181	101	17739	5.650	ug/l	88
8) Diethyl Ether	3.599	74	4370	4.768	ug/l	89
9) 1,1,2-Trichlorotrifluo...	3.981	101	10831	5.522	ug/l	89
10) Methyl Iodide	4.175	142	9847	4.056	ug/l	98
11) Tert butyl alcohol	5.046	59	2903m	28.440	ug/l	
12) 1,1-Dichloroethene	3.958	96	10151	5.164	ug/l #	69
13) Acrolein	3.799	56	4412	22.621	ug/l	93
14) Allyl chloride	4.564	41	14457	5.188	ug/l	96
15) Acrylonitrile	5.264	53	9914	24.349	ug/l	98
16) Acetone	4.028	43	9552	22.539	ug/l	97
17) Carbon Disulfide	4.281	76	32712	5.168	ug/l	95
18) Methyl Acetate	4.564	43	5121	5.448	ug/l #	76
19) Methyl tert-butyl Ether	5.322	73	16640	4.149	ug/l	92
20) Methylene Chloride	4.799	84	12192	5.359	ug/l	94
21) trans-1,2-Dichloroethene	5.322	96	11170	5.140	ug/l	96
22) Diisopropyl ether	6.216	45	24542	4.349	ug/l #	94
23) Vinyl Acetate	6.164	43	68903	21.313	ug/l	99
24) 1,1-Dichloroethane	6.116	63	19262	5.133	ug/l	97
25) 2-Butanone	7.081	43	12819	23.147	ug/l	95
26) 2,2-Dichloropropane	7.081	77	17908	5.490	ug/l	99
27) cis-1,2-Dichloroethene	7.087	96	12614	5.058	ug/l	97
28) Bromochloromethane	7.422	49	9601	5.749	ug/l	99
29) Tetrahydrofuran	7.452	42	6647	21.911	ug/l	95
30) Chloroform	7.593	83	20052	5.072	ug/l	99
31) Cyclohexane	7.881	56	17921	5.634	ug/l #	70
32) 1,1,1-Trichloroethane	7.793	97	18407	5.440	ug/l	98
36) 1,1-Dichloropropene	8.005	75	14449	5.102	ug/l	97
37) Ethyl Acetate	7.169	43	5908	4.854	ug/l #	93
38) Carbon Tetrachloride	7.993	117	16203	5.237	ug/l	97
39) Methylcyclohexane	9.275	83	16077	4.769	ug/l	93
40) Benzene	8.258	78	43278	4.903	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080020.D
 Acq On : 15 Nov 2024 10:04
 Operator : RP/MD
 Sample : VSTDICC005
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:08:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:08:17 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.399	41	3000	2.038	ug/l	93
42) 1,2-Dichloroethane	8.328	62	11688	5.117	ug/l	99
43) Isopropyl Acetate	8.363	43	9952	4.510	ug/l #	83
44) Trichloroethene	9.034	130	11762	5.150	ug/l	79
45) 1,2-Dichloropropane	9.305	63	10360	4.884	ug/l #	88
46) Dibromomethane	9.393	93	6271	5.083	ug/l	96
47) Bromodichloromethane	9.581	83	15961	5.168	ug/l	97
48) Methyl methacrylate	9.387	41	4647	4.412	ug/l	96
49) 1,4-Dioxane	9.393	88	837	73.952	ug/l #	86
51) 4-Methyl-2-Pentanone	10.157	43	24839	22.189	ug/l	94
52) Toluene	10.334	92	25315	4.615	ug/l	98
53) t-1,3-Dichloropropene	10.557	75	12479	4.533	ug/l	99
54) cis-1,3-Dichloropropene	10.016	75	15257	4.681	ug/l	96
55) 1,1,2-Trichloroethane	10.734	97	7959	4.876	ug/l	93
56) Ethyl methacrylate	10.599	69	7483	3.942	ug/l	93
57) 1,3-Dichloropropane	10.881	76	12699	4.782	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.869	63	15740	21.926	ug/l	93
59) 2-Hexanone	10.922	43	16817	20.424	ug/l	96
60) Dibromochloromethane	11.075	129	9857	4.692	ug/l	95
61) 1,2-Dibromoethane	11.175	107	7272	4.725	ug/l	96
64) Tetrachloroethene	10.810	164	10583	5.425	ug/l #	89
65) Chlorobenzene	11.604	112	31166	5.215	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.681	131	10052	4.832	ug/l	100
67) Ethyl Benzene	11.687	91	47656	4.753	ug/l	93
68) m/p-Xylenes	11.799	106	35452	9.047	ug/l	97
69) o-Xylene	12.122	106	14859	4.218	ug/l	97
70) Styrene	12.140	104	26554	4.224	ug/l	99
71) Bromoform	12.298	173	6576	5.362	ug/l #	88
73) Isopropylbenzene	12.422	105	40600	4.722	ug/l	98
74) N-amyl acetate	12.234	43	9048	4.776	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.669	83	8815	5.335	ug/l	97
76) 1,2,3-Trichloropropane	12.722	75	7306m	3.576	ug/l	
77) Bromobenzene	12.698	156	11390	5.097	ug/l	94
78) n-propylbenzene	12.763	91	51645	4.860	ug/l	97
79) 2-Chlorotoluene	12.851	91	30791	4.941	ug/l	99
80) 1,3,5-Trimethylbenzene	12.904	105	34062	4.681	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.469	75	2833	4.925	ug/l	98
82) 4-Chlorotoluene	12.945	91	32543	4.885	ug/l	96
83) tert-Butylbenzene	13.169	119	30017	4.763	ug/l	97
84) 1,2,4-Trimethylbenzene	13.216	105	31817	4.352	ug/l	100
85) sec-Butylbenzene	13.345	105	43895	4.712	ug/l	95
86) p-Isopropyltoluene	13.457	119	35736	4.538	ug/l	99
87) 1,3-Dichlorobenzene	13.457	146	22815	5.042	ug/l	97
88) 1,4-Dichlorobenzene	13.540	146	24118	5.307	ug/l	96
89) n-Butylbenzene	13.787	91	35402	4.779	ug/l	98
90) Hexachloroethane	14.051	117	9043	5.357	ug/l	99
91) 1,2-Dichlorobenzene	13.834	146	20003	5.070	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.451	75	1113	4.454	ug/l	93
93) 1,2,4-Trichlorobenzene	15.098	180	12171	4.919	ug/l	94
94) Hexachlorobutadiene	15.204	225	6909	5.167	ug/l	96
95) Naphthalene	15.334	128	18467	4.394	ug/l	98
96) 1,2,3-Trichlorobenzene	15.516	180	10212	4.700	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080020.D
Acq On : 15 Nov 2024 10:04
Operator : RP/MD
Sample : VSTDICC005
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:08:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

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

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

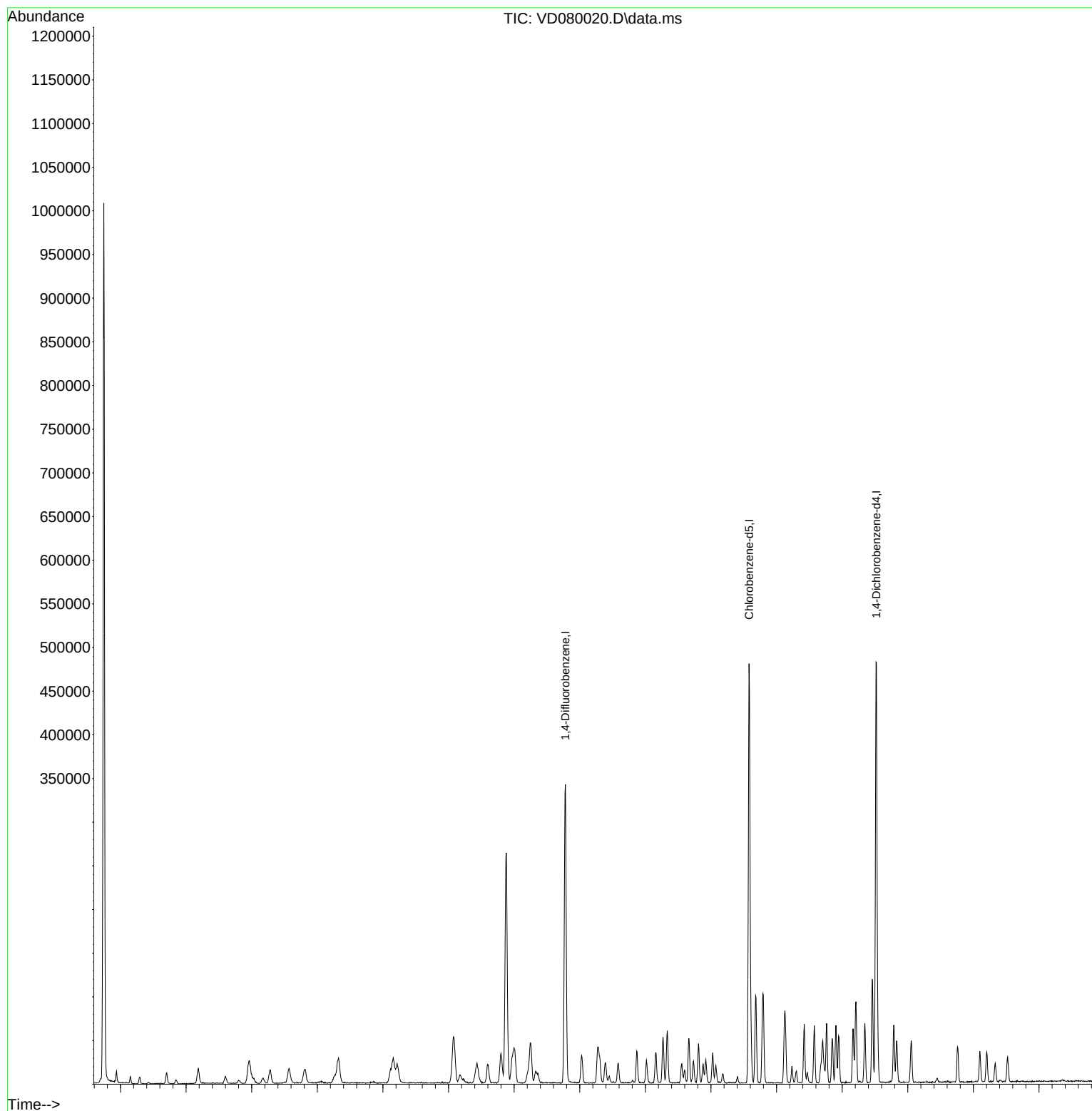
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080020.D
Acq On : 15 Nov 2024 10:04
Operator : RP/MD
Sample : VSTDICC005
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:08:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080021.D
 Acq On : 15 Nov 2024 10:31
 Operator : RP/MD
 Sample : VSTDICC010
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:09:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:08:17 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.881	168	178175	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	287986	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	263426	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	138277	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	18952	10.331	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	20.660%#
35) Dibromofluoromethane	7.804	113	20553	10.723	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	21.440%#
50) Toluene-d8	10.269	98	71954	9.961	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	19.920%#
62) 4-Bromofluorobenzene	12.575	95	22552	9.515	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	19.040%#

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.934	85	13842	9.680	ug/l	97
3) Chloromethane	2.146	50	12401	11.793	ug/l	89
4) Vinyl Chloride	2.287	62	13900	11.578	ug/l	93
5) Bromomethane	2.693	94	17750	13.111	ug/l	99
6) Chloroethane	2.846	64	11012	12.832	ug/l	92
7) Trichlorofluoromethane	3.181	101	32750	11.106	ug/l	94
8) Diethyl Ether	3.599	74	8996	10.451	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.975	101	20048	10.884	ug/l	97
10) Methyl Iodide	4.163	142	20009	8.776	ug/l	94
11) Tert butyl alcohol	5.052	59	5055	52.729	ug/l	97
12) 1,1-Dichloroethene	3.946	96	19251	10.427	ug/l	87
13) Acrolein	3.793	56	10204	55.704	ug/l	99
14) Allyl chloride	4.569	41	25997	9.934	ug/l	95
15) Acrylonitrile	5.263	53	19646	51.375	ug/l	99
16) Acetone	4.022	43	20727	52.074	ug/l	92
17) Carbon Disulfide	4.275	76	63880	10.745	ug/l	100
18) Methyl Acetate	4.563	43	8941	10.128	ug/l	95
19) Methyl tert-butyl Ether	5.322	73	37661	9.999	ug/l	90
20) Methylene Chloride	4.805	84	22377	10.474	ug/l	92
21) trans-1,2-Dichloroethene	5.316	96	20646	10.116	ug/l	96
22) Diisopropyl ether	6.222	45	52123	9.835	ug/l #	98
23) Vinyl Acetate	6.157	43	142667	46.988	ug/l	98
24) 1,1-Dichloroethane	6.110	63	37065	10.516	ug/l	97
25) 2-Butanone	7.087	43	25198	48.445	ug/l	97
26) 2,2-Dichloropropane	7.075	77	31976	10.437	ug/l	94
27) cis-1,2-Dichloroethene	7.081	96	23130	9.875	ug/l	98
28) Bromochloromethane	7.422	49	17639	11.245	ug/l #	97
29) Tetrahydrofuran	7.451	42	13995	49.120	ug/l	98
30) Chloroform	7.598	83	40716	10.965	ug/l	94
31) Cyclohexane	7.881	56	30954	10.362	ug/l #	89
32) 1,1,1-Trichloroethane	7.793	97	33127	10.424	ug/l	98
36) 1,1-Dichloropropene	8.010	75	26012	9.925	ug/l	98
37) Ethyl Acetate	7.169	43	11927	10.588	ug/l #	92
38) Carbon Tetrachloride	7.993	117	29687	10.368	ug/l	89
39) Methylcyclohexane	9.269	83	29657	9.505	ug/l	93
40) Benzene	8.251	78	82374	10.084	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080021.D
 Acq On : 15 Nov 2024 10:31
 Operator : RP/MD
 Sample : VSTDICC010
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:09:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:08:17 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.404	41	6209	4.557	ug/l	94
42) 1,2-Dichloroethane	8.322	62	22011	10.411	ug/l	96
43) Isopropyl Acetate	8.357	43	20152	9.869	ug/l #	89
44) Trichloroethene	9.028	130	22404	10.598	ug/l	91
45) 1,2-Dichloropropane	9.304	63	19870	10.121	ug/l	99
46) Dibromomethane	9.398	93	12139	10.631	ug/l	97
47) Bromodichloromethane	9.587	83	29028	10.156	ug/l	93
48) Methyl methacrylate	9.387	41	9439	9.682	ug/l	96
49) 1,4-Dioxane	9.375	88	1935	184.728	ug/l #	90
51) 4-Methyl-2-Pentanone	10.157	43	47364	45.717	ug/l	98
52) Toluene	10.334	92	49756	9.801	ug/l	97
53) t-1,3-Dichloropropene	10.551	75	25333	9.943	ug/l	95
54) cis-1,3-Dichloropropene	10.016	75	28831	9.558	ug/l	96
55) 1,1,2-Trichloroethane	10.734	97	15900	10.525	ug/l	94
56) Ethyl methacrylate	10.598	69	16022	9.121	ug/l #	94
57) 1,3-Dichloropropane	10.881	76	25080	10.205	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.869	63	29009	43.662	ug/l	98
59) 2-Hexanone	10.922	43	35730	46.887	ug/l	99
60) Dibromochloromethane	11.075	129	20069	10.321	ug/l	96
61) 1,2-Dibromoethane	11.175	107	14443	10.140	ug/l	97
64) Tetrachloroethene	10.810	164	19229	10.250	ug/l	94
65) Chlorobenzene	11.604	112	58061	10.104	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.681	131	20899	10.448	ug/l	96
67) Ethyl Benzene	11.681	91	90326	9.368	ug/l	97
68) m/p-Xylenes	11.792	106	72455	19.228	ug/l	96
69) o-Xylene	12.122	106	31339	9.252	ug/l	100
70) Styrene	12.134	104	56244	9.303	ug/l	99
71) Bromoform	12.304	173	11693	9.915	ug/l #	99
73) Isopropylbenzene	12.422	105	85547	9.593	ug/l	98
74) N-amyl acetate	12.234	43	18256	9.291	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.675	83	18144	10.587	ug/l	93
76) 1,2,3-Trichloropropane	12.716	75	13718m	6.474	ug/l	
77) Bromobenzene	12.698	156	22784	9.832	ug/l	99
78) n-propylbenzene	12.763	91	103220	9.366	ug/l	97
79) 2-Chlorotoluene	12.845	91	61833	9.568	ug/l	98
80) 1,3,5-Trimethylbenzene	12.904	105	69449	9.202	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.463	75	5550	9.303	ug/l	93
82) 4-Chlorotoluene	12.945	91	67897	9.828	ug/l	96
83) tert-Butylbenzene	13.169	119	59728	9.138	ug/l	99
84) 1,2,4-Trimethylbenzene	13.210	105	71367	9.413	ug/l	99
85) sec-Butylbenzene	13.345	105	90478	9.365	ug/l	97
86) p-Isopropyltoluene	13.457	119	74836	9.164	ug/l	99
87) 1,3-Dichlorobenzene	13.457	146	45718	9.742	ug/l	99
88) 1,4-Dichlorobenzene	13.533	146	48934	10.383	ug/l	98
89) n-Butylbenzene	13.786	91	72926	9.492	ug/l	98
90) Hexachloroethane	14.051	117	17927	10.240	ug/l	94
91) 1,2-Dichlorobenzene	13.833	146	41526	10.148	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.451	75	3003	11.588	ug/l	86
93) 1,2,4-Trichlorobenzene	15.098	180	23795	9.273	ug/l	98
94) Hexachlorobutadiene	15.204	225	13622	9.823	ug/l	95
95) Naphthalene	15.328	128	39060	8.962	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.522	180	21630	9.599	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080021.D
Acq On : 15 Nov 2024 10:31
Operator : RP/MD
Sample : VSTDICC010
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:09:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

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

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

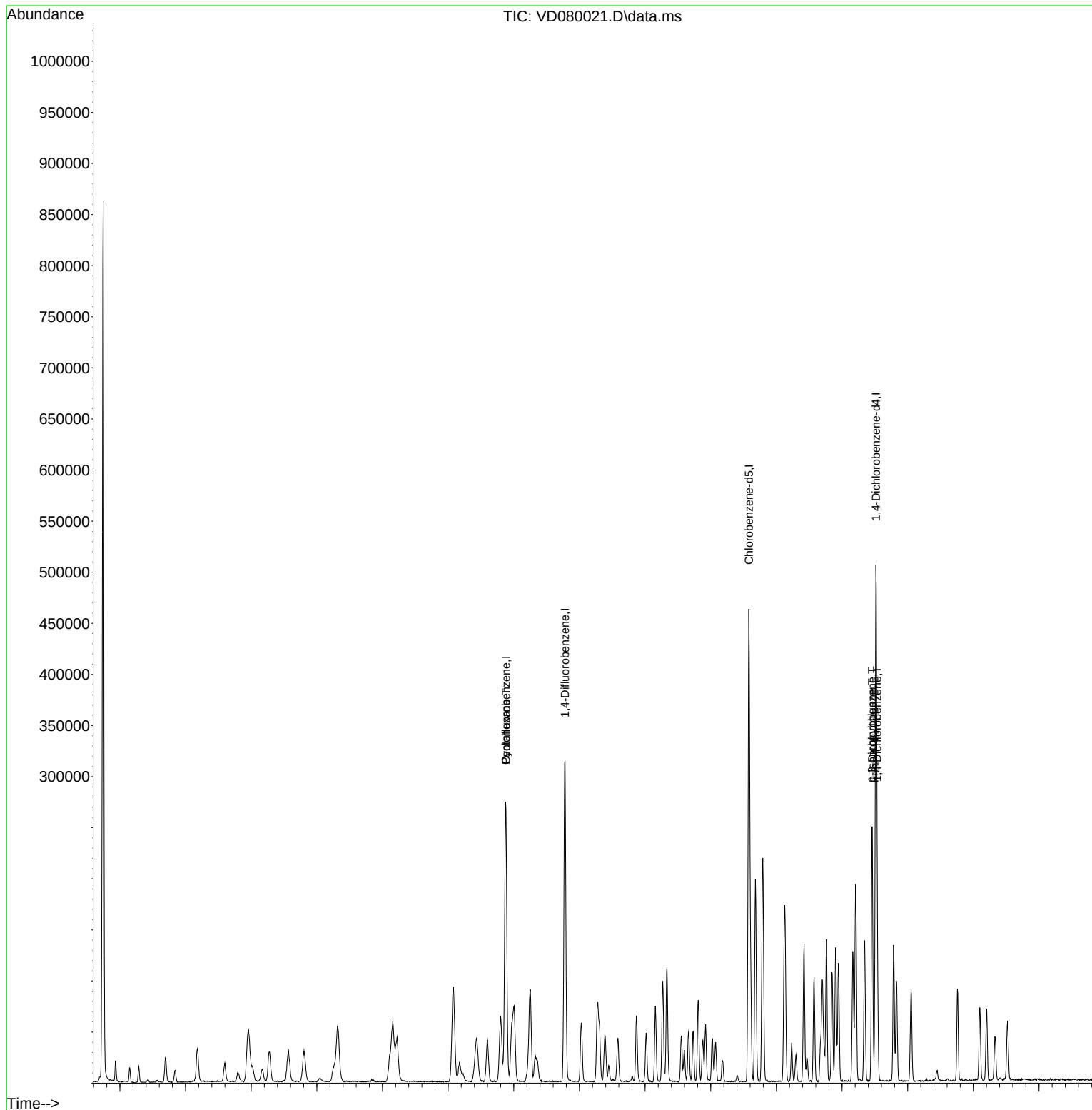
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080021.D
Acq On : 15 Nov 2024 10:31
Operator : RP/MD
Sample : VSTDICC010
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:09:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080022.D
 Acq On : 15 Nov 2024 10:58
 Operator : RP/MD
 Sample : VSTDICC020
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC020

Quant Time: Nov 15 16:09:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:08:17 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

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

Internal Standards						
1) Pentafluorobenzene	7.881	168	207470	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	333694	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.580	117	304255	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	161583	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.234	65	37444	17.529	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	35.060%#
35) Dibromofluoromethane	7.810	113	38063	17.139	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	34.280%#
50) Toluene-d8	10.269	98	145147	17.341	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	34.680%#
62) 4-Bromofluorobenzene	12.574	95	47117	17.157	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	34.320%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.934	85	30221	18.150	ug/l	98
3) Chloromethane	2.151	50	23156	18.911	ug/l	99
4) Vinyl Chloride	2.287	62	25882	18.515	ug/l	95
5) Bromomethane	2.687	94	28616	18.506	ug/l	95
6) Chloroethane	2.840	64	18938	18.953	ug/l	91
7) Trichlorofluoromethane	3.175	101	63352	18.451	ug/l	96
8) Diethyl Ether	3.598	74	18096	18.054	ug/l	87
9) 1,1,2-Trichlorotrifluo...	3.969	101	40293	18.785	ug/l	91
10) Methyl Iodide	4.163	142	49960	18.818	ug/l	98
11) Tert butyl alcohol	5.057	59	10999	98.531	ug/l #	92
12) 1,1-Dichloroethene	3.951	96	41001	19.072	ug/l	83
13) Acrolein	3.798	56	17828	83.582	ug/l	94
14) Allyl chloride	4.569	41	59125	19.402	ug/l	98
15) Acrylonitrile	5.263	53	43596	97.907	ug/l	99
16) Acetone	4.022	43	37909	81.793	ug/l #	86
17) Carbon Disulfide	4.275	76	128786	18.604	ug/l	99
18) Methyl Acetate	4.563	43	20590	20.031	ug/l	97
19) Methyl tert-butyl Ether	5.322	73	83889	19.127	ug/l	94
20) Methylene Chloride	4.804	84	50759	20.403	ug/l	94
21) trans-1,2-Dichloroethene	5.322	96	44449	18.703	ug/l	94
22) Diisopropyl ether	6.216	45	123437	20.003	ug/l	97
23) Vinyl Acetate	6.157	43	338859	95.846	ug/l	99
24) 1,1-Dichloroethane	6.116	63	79716	19.423	ug/l	99
25) 2-Butanone	7.087	43	57703	95.273	ug/l	92
26) 2,2-Dichloropropane	7.081	77	68644	19.241	ug/l	100
27) cis-1,2-Dichloroethene	7.081	96	51492	18.880	ug/l	99
28) Bromochloromethane	7.422	49	34556	18.920	ug/l #	96
29) Tetrahydrofuran	7.451	42	30913	93.178	ug/l	96
30) Chloroform	7.598	83	83979	19.422	ug/l	92
31) Cyclohexane	7.881	56	64750	18.615	ug/l	95
32) 1,1,1-Trichloroethane	7.792	97	70650	19.093	ug/l	97
36) 1,1-Dichloropropene	8.010	75	57538	18.947	ug/l	100
37) Ethyl Acetate	7.175	43	24232	18.565	ug/l #	82
38) Carbon Tetrachloride	7.992	117	64398	19.409	ug/l	98
39) Methylcyclohexane	9.275	83	63504	17.564	ug/l	95
40) Benzene	8.251	78	180359	19.054	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080022.D
 Acq On : 15 Nov 2024 10:58
 Operator : RP/MD
 Sample : VSTDICC020
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_D

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024

Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:09:43 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M

Quant Title : SW846 8260

QLast Update : Fri Nov 15 16:08:17 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.398	41	13991	8.863	ug/l #	90
42) 1,2-Dichloroethane	8.328	62	46713	19.069	ug/l	98
43) Isopropyl Acetate	8.363	43	45489	19.225	ug/l	99
44) Trichloroethene	9.028	130	45515	18.582	ug/l	92
45) 1,2-Dichloropropane	9.304	63	43886	19.293	ug/l	99
46) Dibromomethane	9.398	93	25318	19.135	ug/l	97
47) Bromodichloromethane	9.586	83	63022	19.030	ug/l	96
48) Methyl methacrylate	9.380	41	21459	18.997	ug/l	93
49) 1,4-Dioxane	9.386	88	4525	372.814	ug/l	95
51) 4-Methyl-2-Pentanone	10.157	43	114924	95.733	ug/l	98
52) Toluene	10.333	92	109805	18.667	ug/l	95
53) t-1,3-Dichloropropene	10.551	75	56000	18.969	ug/l	91
54) cis-1,3-Dichloropropene	10.016	75	67497	19.312	ug/l	97
55) 1,1,2-Trichloroethane	10.733	97	33419	19.092	ug/l	98
56) Ethyl methacrylate	10.598	69	37039	18.197	ug/l	95
57) 1,3-Dichloropropane	10.880	76	54029	18.974	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.869	63	66445	86.309	ug/l	96
59) 2-Hexanone	10.922	43	81441	92.232	ug/l	98
60) Dibromochloromethane	11.075	129	42654	18.931	ug/l	97
61) 1,2-Dibromoethane	11.180	107	31586	19.138	ug/l	99
64) Tetrachloroethene	10.810	164	40964	18.906	ug/l	98
65) Chlorobenzene	11.604	112	124572	18.769	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.680	131	44230	19.145	ug/l	98
67) Ethyl Benzene	11.686	91	206092	18.506	ug/l	96
68) m/p-Xylenes	11.792	106	166351	38.223	ug/l	98
69) o-Xylene	12.122	106	73527	18.794	ug/l	94
70) Styrene	12.133	104	134490	19.260	ug/l	99
71) Bromoform	12.298	173	26209	19.241	ug/l #	97
73) Isopropylbenzene	12.422	105	192187	18.444	ug/l	100
74) N-amyl acetate	12.227	43	41904	18.251	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.669	83	37794	18.873	ug/l	99
76) 1,2,3-Trichloropropane	12.716	75	25503m	10.300	ug/l	
77) Bromobenzene	12.698	156	50581	18.678	ug/l	98
78) n-propylbenzene	12.763	91	240557	18.680	ug/l	99
79) 2-Chlorotoluene	12.845	91	143286	18.974	ug/l	99
80) 1,3,5-Trimethylbenzene	12.904	105	167256	18.965	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.469	75	13278	19.046	ug/l	98
82) 4-Chlorotoluene	12.945	91	155234	19.228	ug/l	98
83) tert-Butylbenzene	13.163	119	139175	18.222	ug/l	98
84) 1,2,4-Trimethylbenzene	13.210	105	167670	18.926	ug/l	100
85) sec-Butylbenzene	13.345	105	211232	18.710	ug/l	97
86) p-Isopropyltoluene	13.457	119	177158	18.564	ug/l	98
87) 1,3-Dichlorobenzene	13.457	146	105146	19.174	ug/l	98
88) 1,4-Dichlorobenzene	13.533	146	103949	18.875	ug/l	99
89) n-Butylbenzene	13.786	91	160004	17.822	ug/l	98
90) Hexachloroethane	14.051	117	38237	18.691	ug/l	96
91) 1,2-Dichlorobenzene	13.827	146	90973	19.026	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.451	75	5811	19.190	ug/l	96
93) 1,2,4-Trichlorobenzene	15.098	180	55280	18.436	ug/l	97
94) Hexachlorobutadiene	15.204	225	28314	17.472	ug/l	96
95) Naphthalene	15.327	128	90760	17.821	ug/l	99
96) 1,2,3-Trichlorobenzene	15.521	180	48547	18.437	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080022.D
Acq On : 15 Nov 2024 10:58
Operator : RP/MD
Sample : VSTDICC020
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:09:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

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

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

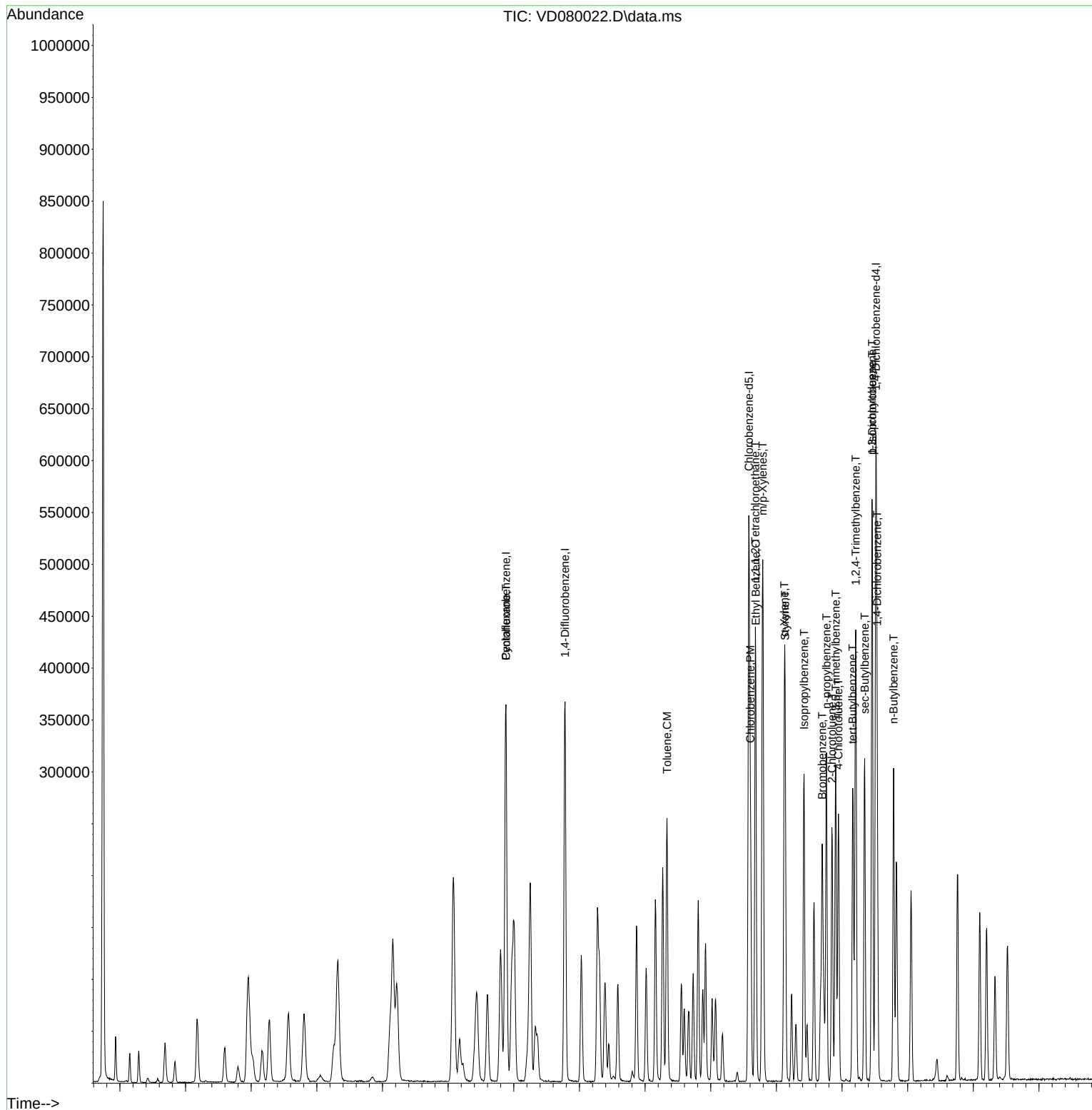
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080022.D
Acq On : 15 Nov 2024 10:58
Operator : RP/MD
Sample : VSTDICC020
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By : Mahesh Dadoda 11/18/2024
Supervised By : Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:09:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080023.D
 Acq On : 15 Nov 2024 11:24
 Operator : RP/MD
 Sample : VSTDICCC050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:10:06 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:08:17 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.881	168	204238	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	319923	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	297995	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	156257	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	107370	51.060	ug/l	0.00
Spiked Amount 50.000	Range 50	- 163	Recovery	=	102.120%	
35) Dibromofluoromethane	7.805	113	107989	50.718	ug/l	0.00
Spiked Amount 50.000	Range 54	- 147	Recovery	=	101.440%	
50) Toluene-d8	10.269	98	425425	53.013	ug/l	0.00
Spiked Amount 50.000	Range 58	- 134	Recovery	=	106.020%	
62) 4-Bromofluorobenzene	12.575	95	139246	52.887	ug/l	0.00
Spiked Amount 50.000	Range 30	- 143	Recovery	=	105.780%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.934	85	80818	49.304	ug/l	100
3) Chloromethane	2.146	50	56320	46.722	ug/l	98
4) Vinyl Chloride	2.287	62	65705	47.745	ug/l	95
5) Bromomethane	2.693	94	62276	42.995	ug/l	96
6) Chloroethane	2.840	64	42381	43.085	ug/l	91
7) Trichlorofluoromethane	3.181	101	156382	46.266	ug/l	93
8) Diethyl Ether	3.599	74	46243	46.866	ug/l	88
9) 1,1,2-Trichlorotrifluo...	3.969	101	98328	46.568	ug/l	93
10) Methyl Iodide	4.164	142	142220	54.416	ug/l	95
11) Tert butyl alcohol	5.058	59	23347	212.457	ug/l #	94
12) 1,1-Dichloroethene	3.946	96	100281	47.385	ug/l	86
13) Acrolein	3.799	56	49036	233.531	ug/l	99
14) Allyl chloride	4.564	41	130216	43.407	ug/l	92
15) Acrylonitrile	5.252	53	102327	233.440	ug/l	99
16) Acetone	4.022	43	107778	236.223	ug/l #	87
17) Carbon Disulfide	4.275	76	317309	46.563	ug/l	100
18) Methyl Acetate	4.564	43	43628	43.116	ug/l	96
19) Methyl tert-butyl Ether	5.316	73	222163	51.457	ug/l	96
20) Methylene Chloride	4.805	84	113580	46.377	ug/l	92
21) trans-1,2-Dichloroethene	5.311	96	117961	50.420	ug/l	89
22) Diisopropyl ether	6.216	45	317583	52.280	ug/l	98
23) Vinyl Acetate	6.158	43	930999	267.500	ug/l	100
24) 1,1-Dichloroethane	6.111	63	198703	49.181	ug/l	97
25) 2-Butanone	7.081	43	157148	263.573	ug/l	94
26) 2,2-Dichloropropane	7.075	77	170966	48.681	ug/l	99
27) cis-1,2-Dichloroethene	7.081	96	133902	49.873	ug/l	99
28) Bromochloromethane	7.422	49	83020	46.174	ug/l #	95
29) Tetrahydrofuran	7.446	42	86841	265.900	ug/l	99
30) Chloroform	7.599	83	208157	48.903	ug/l	98
31) Cyclohexane	7.881	56	162733	47.523	ug/l	93
32) 1,1,1-Trichloroethane	7.793	97	177442	48.712	ug/l	99
36) 1,1-Dichloropropene	8.010	75	145755	50.063	ug/l	99
37) Ethyl Acetate	7.169	43	62266	49.756	ug/l #	96
38) Carbon Tetrachloride	7.993	117	157125	49.395	ug/l	97
39) Methylcyclohexane	9.275	83	177825	51.301	ug/l	97
40) Benzene	8.252	78	459376	50.620	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080023.D
 Acq On : 15 Nov 2024 11:24
 Operator : RP/MD
 Sample : VSTDICCC050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:10:06 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:08:17 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.393	41	33252	21.970	ug/l	95
42) 1,2-Dichloroethane	8.328	62	117850	50.179	ug/l	99
43) Isopropyl Acetate	8.363	43	117454	51.776	ug/l	99
44) Trichloroethene	9.028	130	115522	49.194	ug/l	99
45) 1,2-Dichloropropane	9.305	63	112751	51.700	ug/l	98
46) Dibromomethane	9.393	93	62584	49.337	ug/l	94
47) Bromodichloromethane	9.587	83	159563	50.254	ug/l	99
48) Methyl methacrylate	9.381	41	56346	52.029	ug/l	98
49) 1,4-Dioxane	9.381	88	13386	1150.344	ug/l	90
51) 4-Methyl-2-Pentanone	10.157	43	308499	268.045	ug/l	100
52) Toluene	10.334	92	293358	52.018	ug/l	98
53) t-1,3-Dichloropropene	10.552	75	146694	51.828	ug/l	97
54) cis-1,3-Dichloropropene	10.016	75	173261	51.706	ug/l	95
55) 1,1,2-Trichloroethane	10.734	97	85516	50.957	ug/l	97
56) Ethyl methacrylate	10.599	69	105685	54.157	ug/l	95
57) 1,3-Dichloropropane	10.881	76	140185	51.349	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.869	63	197220	267.207	ug/l	98
59) 2-Hexanone	10.922	43	234554	277.067	ug/l	97
60) Dibromochloromethane	11.075	129	111533	51.633	ug/l	100
61) 1,2-Dibromoethane	11.181	107	80516	50.886	ug/l	98
64) Tetrachloroethene	10.810	164	101766	47.954	ug/l	96
65) Chlorobenzene	11.604	112	318924	49.062	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.681	131	112677	49.796	ug/l	95
67) Ethyl Benzene	11.681	91	556007	50.976	ug/l	96
68) m/p-Xylenes	11.793	106	433218	101.632	ug/l	100
69) o-Xylene	12.122	106	199568	52.084	ug/l	94
70) Styrene	12.134	104	361279	52.826	ug/l	98
71) Bromoform	12.298	173	66498	49.843	ug/l #	99
73) Isopropylbenzene	12.422	105	511101	50.721	ug/l	100
74) N-amyl acetate	12.234	43	117234	52.801	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.669	83	94989	49.050	ug/l	99
76) 1,2,3-Trichloropropane	12.722	75	64068m	26.758	ug/l	
77) Bromobenzene	12.698	156	130507	49.836	ug/l	99
78) n-propylbenzene	12.763	91	636265	51.092	ug/l	99
79) 2-Chlorotoluene	12.845	91	369010	50.529	ug/l	100
80) 1,3,5-Trimethylbenzene	12.904	105	439937	51.586	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.469	75	34451	51.101	ug/l	97
82) 4-Chlorotoluene	12.945	91	392567	50.283	ug/l	98
83) tert-Butylbenzene	13.163	119	375905	50.893	ug/l	97
84) 1,2,4-Trimethylbenzene	13.210	105	446723	52.143	ug/l	99
85) sec-Butylbenzene	13.345	105	552940	50.646	ug/l	98
86) p-Isopropyltoluene	13.457	119	473021	51.257	ug/l	98
87) 1,3-Dichlorobenzene	13.457	146	263700	49.727	ug/l	99
88) 1,4-Dichlorobenzene	13.534	146	259510	48.727	ug/l	98
89) n-Butylbenzene	13.787	91	440220	50.705	ug/l	99
90) Hexachloroethane	14.051	117	95003	48.022	ug/l	95
91) 1,2-Dichlorobenzene	13.828	146	230112	49.764	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.445	75	14287	48.788	ug/l	93
93) 1,2,4-Trichlorobenzene	15.098	180	144289	49.762	ug/l	99
94) Hexachlorobutadiene	15.204	225	77123	49.213	ug/l	96
95) Naphthalene	15.328	128	253577	51.487	ug/l	97
96) 1,2,3-Trichlorobenzene	15.522	180	128967	50.648	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080023.D
Acq On : 15 Nov 2024 11:24
Operator : RP/MD
Sample : VSTDICCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:10:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

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

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

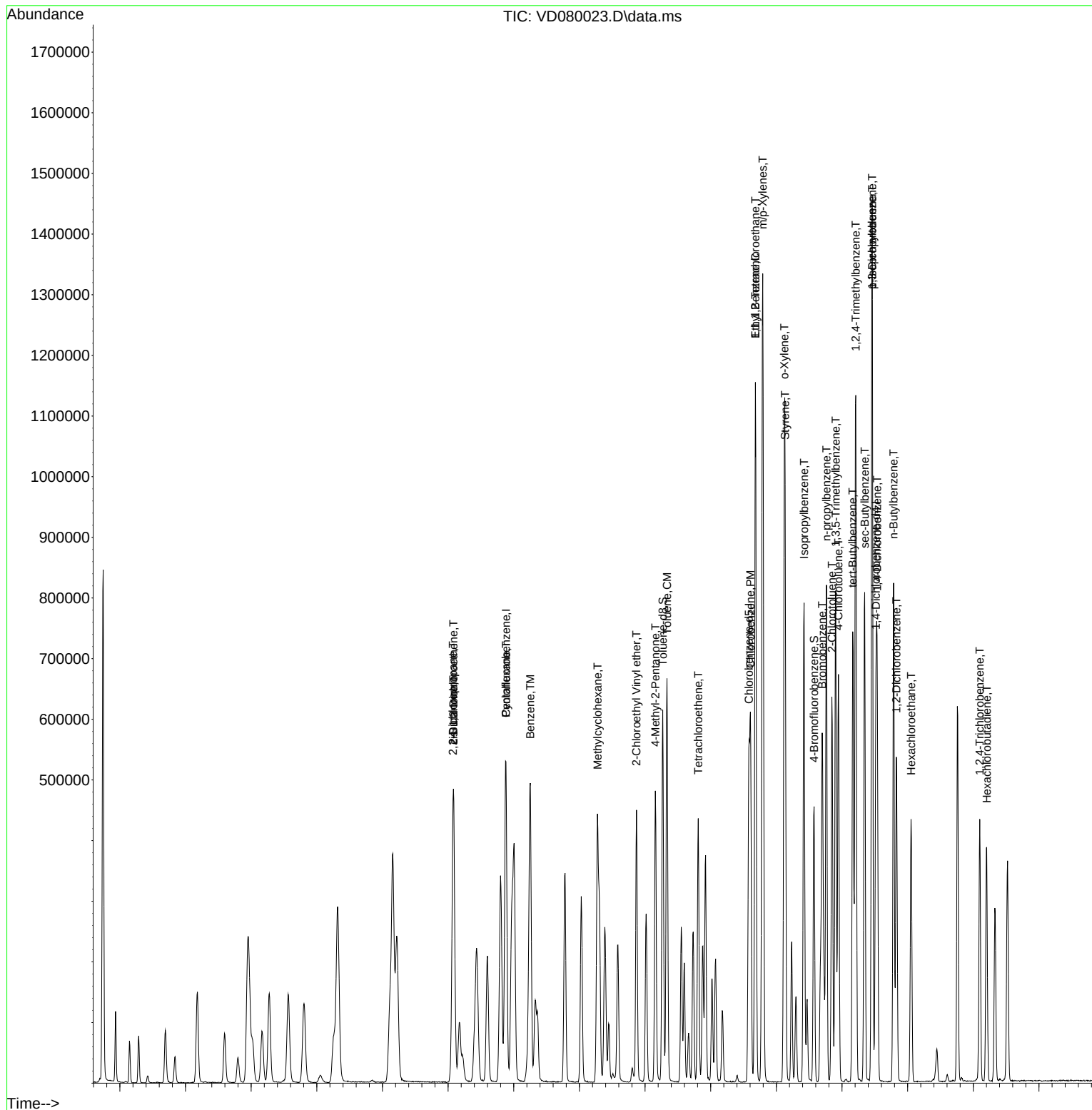
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080023.D
Acq On : 15 Nov 2024 11:24
Operator : RP/MD
Sample : VSTDICCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:10:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080024.D
 Acq On : 15 Nov 2024 11:51
 Operator : RP/MD
 Sample : VSTDICC100
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:10:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:08:17 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	213987	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	334359	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	305672	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	161470	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	215523	97.823	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	195.640%#
35) Dibromofluoromethane	7.804	113	219736	98.746	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	197.500%#
50) Toluene-d8	10.269	98	871600	103.923	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	207.840%#
62) 4-Bromofluorobenzene	12.569	95	292418	106.269	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	212.540%#

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.934	85	169485	98.686	ug/l 98
3) Chloromethane	2.146	50	120374	95.311	ug/l 96
4) Vinyl Chloride	2.287	62	141364	98.044	ug/l 93
5) Bromomethane	2.687	94	148540	108.149	ug/l 99
6) Chloroethane	2.834	64	107437	104.245	ug/l 97
7) Trichlorofluoromethane	3.175	101	352620	99.570	ug/l 97
8) Diethyl Ether	3.593	74	110272	106.666	ug/l 96
9) 1,1,2-Trichlorotrifluo...	3.969	101	213116	96.333	ug/l 97
10) Methyl Iodide	4.163	142	313697	114.559	ug/l 96
11) Tert butyl alcohol	5.058	59	55887	485.400	ug/l # 87
12) 1,1-Dichloroethene	3.946	96	222161	100.193	ug/l 94
13) Acrolein	3.799	56	114581	520.823	ug/l 99
14) Allyl chloride	4.563	41	333079	105.973	ug/l 97
15) Acrylonitrile	5.257	53	242417	527.834	ug/l 99
16) Acetone	4.022	43	282176	590.285	ug/l 95
17) Carbon Disulfide	4.269	76	726481	101.750	ug/l 98
18) Methyl Acetate	4.563	43	109084	102.891	ug/l 100
19) Methyl tert-butyl Ether	5.316	73	494834	109.391	ug/l 96
20) Methylene Chloride	4.799	84	248753	96.944	ug/l 97
21) trans-1,2-Dichloroethene	5.310	96	247853	101.113	ug/l 94
22) Diisopropyl ether	6.216	45	664677	104.433	ug/l 98
23) Vinyl Acetate	6.152	43	2000852	548.704	ug/l 100
24) 1,1-Dichloroethane	6.116	63	416823	98.467	ug/l 98
25) 2-Butanone	7.081	43	331025	529.910	ug/l 98
26) 2,2-Dichloropropane	7.075	77	350945	95.376	ug/l 99
27) cis-1,2-Dichloroethene	7.081	96	288934	102.713	ug/l 97
28) Bromochloromethane	7.428	49	172243	91.433	ug/l # 94
29) Tetrahydrofuran	7.446	42	185474	542.033	ug/l 99
30) Chloroform	7.599	83	430697	96.575	ug/l 99
31) Cyclohexane	7.881	56	347253	96.789	ug/l 99
32) 1,1,1-Trichloroethane	7.793	97	369773	96.887	ug/l 99
36) 1,1-Dichloropropene	8.010	75	307357	101.011	ug/l 99
37) Ethyl Acetate	7.163	43	135547	103.638	ug/l 98
38) Carbon Tetrachloride	7.993	117	322998	97.157	ug/l 96
39) Methylcyclohexane	9.275	83	389740	107.583	ug/l 98
40) Benzene	8.251	78	962021	101.430	ug/l 100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080024.D
 Acq On : 15 Nov 2024 11:51
 Operator : RP/MD
 Sample : VSTDICC100
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_D

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024

Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:10:27 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M

Quant Title : SW846 8260

QLast Update : Fri Nov 15 16:08:17 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.399	41	72210	45.650	ug/l	98
42) 1,2-Dichloroethane	8.328	62	245353	99.958	ug/l	98
43) Isopropyl Acetate	8.357	43	249535	105.250	ug/l	98
44) Trichloroethene	9.028	130	241612	98.445	ug/l	98
45) 1,2-Dichloropropane	9.304	63	228930	100.439	ug/l	99
46) Dibromomethane	9.393	93	132059	99.612	ug/l	97
47) Bromodichloromethane	9.587	83	329294	99.233	ug/l	98
48) Methyl methacrylate	9.381	41	122491	108.222	ug/l	97
49) 1,4-Dioxane	9.387	88	26852	2207.934	ug/l	95
51) 4-Methyl-2-Pentanone	10.157	43	659252	548.072	ug/l	100
52) Toluene	10.334	92	619581	105.120	ug/l	99
53) t-1,3-Dichloropropene	10.551	75	310735	105.046	ug/l	97
54) cis-1,3-Dichloropropene	10.016	75	367453	104.923	ug/l	98
55) 1,1,2-Trichloroethane	10.734	97	174957	99.751	ug/l	98
56) Ethyl methacrylate	10.598	69	234226	114.843	ug/l	95
57) 1,3-Dichloropropane	10.875	76	290227	101.719	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.869	63	432592	560.800	ug/l	97
59) 2-Hexanone	10.916	43	496488	561.155	ug/l	96
60) Dibromochloromethane	11.075	129	229588	101.696	ug/l	99
61) 1,2-Dibromoethane	11.175	107	170888	103.337	ug/l	100
64) Tetrachloroethene	10.810	164	215063	98.797	ug/l	98
65) Chlorobenzene	11.604	112	669342	100.383	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.681	131	234719	101.126	ug/l	98
67) Ethyl Benzene	11.681	91	1201503	107.390	ug/l	97
68) m/p-Xylenes	11.792	106	936727	214.234	ug/l	99
69) o-Xylene	12.122	106	440333	112.033	ug/l	94
70) Styrene	12.134	104	769949	109.754	ug/l	99
71) Bromoform	12.298	173	135759	99.202	ug/l #	100
73) Isopropylbenzene	12.422	105	1118214	107.387	ug/l	100
74) N-amyl acetate	12.234	43	249128	108.581	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.669	83	197534	98.708	ug/l	100
76) 1,2,3-Trichloropropane	12.722	75	133250m	53.854	ug/l	
77) Bromobenzene	12.698	156	276526	102.186	ug/l	97
78) n-propylbenzene	12.763	91	1365890	106.140	ug/l	99
79) 2-Chlorotoluene	12.845	91	787564	104.361	ug/l	99
80) 1,3,5-Trimethylbenzene	12.904	105	949326	107.721	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.469	75	74312	106.669	ug/l	96
82) 4-Chlorotoluene	12.945	91	832316	103.168	ug/l	98
83) tert-Butylbenzene	13.163	119	829100	108.627	ug/l	98
84) 1,2,4-Trimethylbenzene	13.210	105	965843	109.097	ug/l	100
85) sec-Butylbenzene	13.345	105	1221229	108.246	ug/l	98
86) p-Isopropyltoluene	13.457	119	1047476	109.841	ug/l	98
87) 1,3-Dichlorobenzene	13.457	146	560219	102.233	ug/l	99
88) 1,4-Dichlorobenzene	13.534	146	546394	99.281	ug/l	97
89) n-Butylbenzene	13.786	91	975494	108.731	ug/l	98
90) Hexachloroethane	14.051	117	204284	99.928	ug/l	98
91) 1,2-Dichlorobenzene	13.828	146	484966	101.494	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.445	75	30992	102.416	ug/l	94
93) 1,2,4-Trichlorobenzene	15.098	180	323341	107.913	ug/l	100
94) Hexachlorobutadiene	15.204	225	172695	106.640	ug/l	99
95) Naphthalene	15.328	128	577937	113.557	ug/l	97
96) 1,2,3-Trichlorobenzene	15.522	180	281865	107.120	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080024.D
Acq On : 15 Nov 2024 11:51
Operator : RP/MD
Sample : VSTDICC100
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:10:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 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_D\Data\VD111524\
Data File : VD080024.D
Acq On : 15 Nov 2024 11:51
Operator : RP/MD
Sample : VSTDICC100
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 15 16:10:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

Instrument :

MSVOA_D

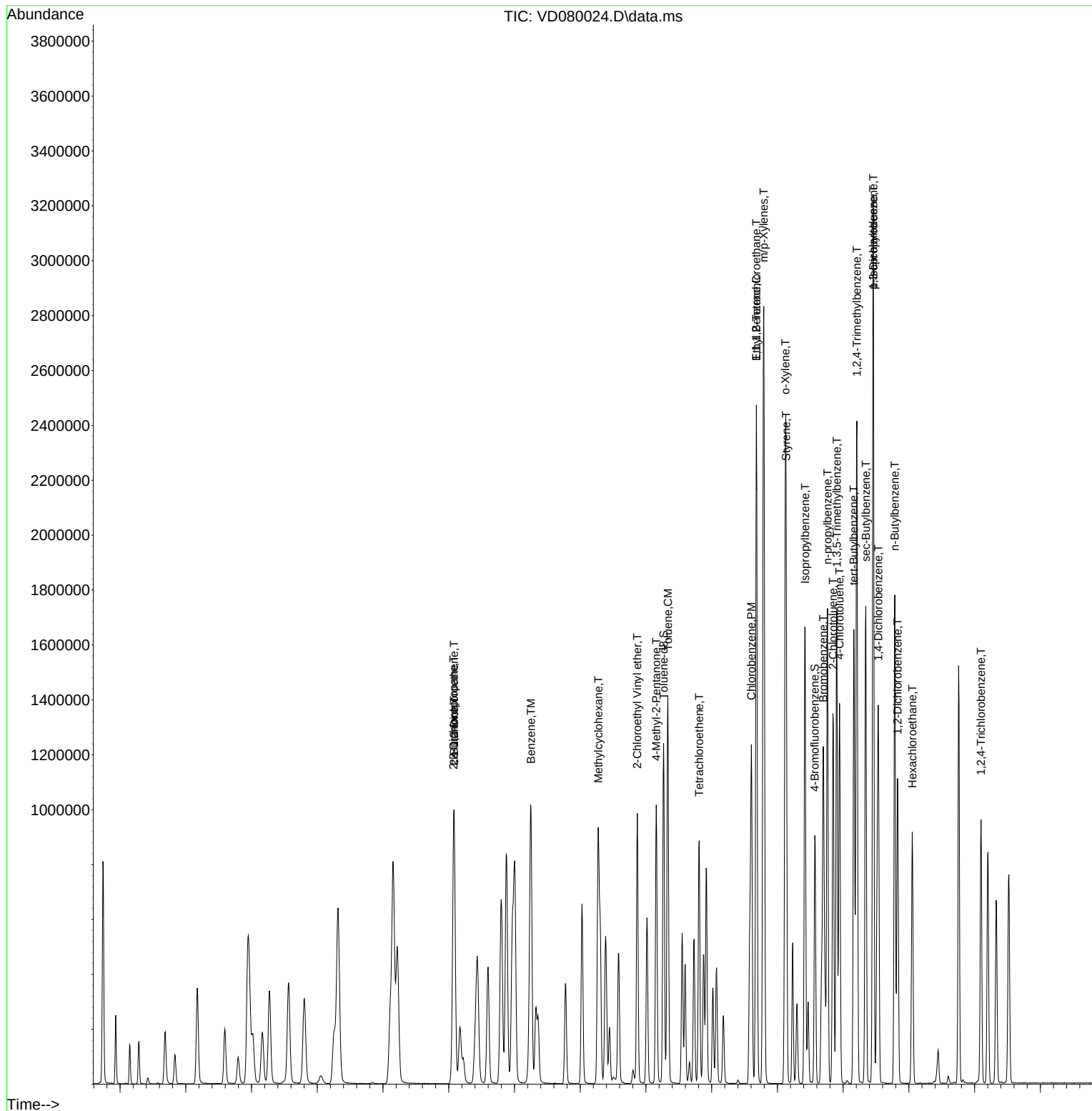
ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080025.D
 Acq On : 15 Nov 2024 12:18
 Operator : RP/MD
 Sample : VSTDICC150
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC150

Quant Time: Nov 15 16:10:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:08:17 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	221376	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	344352	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	317754	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	166794	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	347158	152.310	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 304.620%#			
35) Dibromofluoromethane	7.804	113	365575	159.516	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 319.040%#			
50) Toluene-d8	10.269	98	1438917	166.586	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 333.180%#			
62) 4-Bromofluorobenzene	12.569	95	478859	168.974	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 337.940%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.934	85	264686	148.975	ug/l	97
3) Chloromethane	2.146	50	170375	130.398	ug/l	96
4) Vinyl Chloride	2.281	62	192789	129.247	ug/l	99
5) Bromomethane	2.669	94	196455	146.841	ug/l	99
6) Chloroethane	2.828	64	129394	121.359	ug/l	98
7) Trichlorofluoromethane	3.169	101	503283	137.370	ug/l	100
8) Diethyl Ether	3.593	74	175609	164.197	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.969	101	334103	145.982	ug/l	98
10) Methyl Iodide	4.163	142	482887	170.459	ug/l	96
11) Tert butyl alcohol	5.052	59	87262	732.606	ug/l #	88
12) 1,1-Dichloroethene	3.940	96	351408	153.193	ug/l	94
13) Acrolein	3.793	56	199631	877.127	ug/l	98
14) Allyl chloride	4.558	41	522371	160.651	ug/l	96
15) Acrylonitrile	5.252	53	367058	772.549	ug/l	99
16) Acetone	4.022	43	413036	835.192	ug/l	98
17) Carbon Disulfide	4.269	76	1122269	151.938	ug/l	98
18) Methyl Acetate	4.563	43	165292	150.705	ug/l	98
19) Methyl tert-butyl Ether	5.316	73	765741	163.628	ug/l	96
20) Methylene Chloride	4.805	84	381592	143.750	ug/l	98
21) trans-1,2-Dichloroethene	5.310	96	382577	150.866	ug/l	97
22) Diisopropyl ether	6.216	45	1043460	158.474	ug/l	97
23) Vinyl Acetate	6.152	43	3060849	811.376	ug/l	99
24) 1,1-Dichloroethane	6.110	63	645380	147.371	ug/l	99
25) 2-Butanone	7.081	43	503300	778.798	ug/l	98
26) 2,2-Dichloropropane	7.075	77	553285	145.347	ug/l	98
27) cis-1,2-Dichloroethene	7.081	96	450627	154.847	ug/l	98
28) Bromochloromethane	7.422	49	275355	141.290	ug/l #	92
29) Tetrahydrofuran	7.446	42	281886	796.293	ug/l	98
30) Chloroform	7.593	83	674259	146.143	ug/l	100
31) Cyclohexane	7.875	56	549994	148.182	ug/l	99
32) 1,1,1-Trichloroethane	7.793	97	575523	145.764	ug/l	98
36) 1,1-Dichloropropene	8.010	75	483352	154.240	ug/l	99
37) Ethyl Acetate	7.163	43	204212	151.608	ug/l	98
38) Carbon Tetrachloride	7.993	117	506324	147.881	ug/l	96
39) Methylcyclohexane	9.275	83	624424	167.362	ug/l	98
40) Benzene	8.251	78	1511558	154.746	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080025.D
 Acq On : 15 Nov 2024 12:18
 Operator : RP/MD
 Sample : VSTDICC150
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC150

Quant Time: Nov 15 16:10:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:08:17 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.399	41	116055	71.239	ug/l	95
42) 1,2-Dichloroethane	8.322	62	371202	146.841	ug/l	98
43) Isopropyl Acetate	8.357	43	388891	159.269	ug/l	100
44) Trichloroethene	9.028	130	383998	151.920	ug/l	98
45) 1,2-Dichloropropane	9.304	63	354943	151.206	ug/l	98
46) Dibromomethane	9.393	93	200861	147.112	ug/l	97
47) Bromodichloromethane	9.581	83	513563	150.272	ug/l	98
48) Methyl methacrylate	9.381	41	188276	161.517	ug/l	97
49) 1,4-Dioxane	9.387	88	43230	3451.477	ug/l	94
51) 4-Methyl-2-Pentanone	10.157	43	996425	804.342	ug/l	99
52) Toluene	10.334	92	976028	160.791	ug/l	99
53) t-1,3-Dichloropropene	10.551	75	486056	159.546	ug/l	95
54) cis-1,3-Dichloropropene	10.016	75	572950	158.854	ug/l	97
55) 1,1,2-Trichloroethane	10.734	97	271248	150.163	ug/l	98
56) Ethyl methacrylate	10.598	69	364866	173.706	ug/l	94
57) 1,3-Dichloropropane	10.881	76	454045	154.516	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.869	63	712742	897.165	ug/l	95
59) 2-Hexanone	10.922	43	746557	819.309	ug/l	95
60) Dibromochloromethane	11.069	129	360409	155.011	ug/l	99
61) 1,2-Dibromoethane	11.181	107	263889	154.944	ug/l	99
64) Tetrachloroethene	10.810	164	338630	149.648	ug/l	97
65) Chlorobenzene	11.604	112	1063606	153.447	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.681	131	370700	153.640	ug/l	97
67) Ethyl Benzene	11.681	91	1908343	164.082	ug/l	95
68) m/p-Xylenes	11.792	106	1487407	327.243	ug/l	97
69) o-Xylene	12.122	106	692154	169.407	ug/l	95
70) Styrene	12.134	104	1211907	166.184	ug/l	99
71) Bromoform	12.298	173	210245	147.789	ug/l #	98
73) Isopropylbenzene	12.422	105	1751890	162.871	ug/l	100
74) N-ethyl acetate	12.234	43	377305	159.197	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.669	83	298492	144.396	ug/l	97
76) 1,2,3-Trichloropropane	12.722	75	194071m	75.932	ug/l	
77) Bromobenzene	12.698	156	438109	156.729	ug/l	97
78) n-propylbenzene	12.763	91	2141654	161.110	ug/l	99
79) 2-Chlorotoluene	12.845	91	1230210	157.812	ug/l	99
80) 1,3,5-Trimethylbenzene	12.904	105	1483510	162.962	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.469	75	112664	156.558	ug/l	96
82) 4-Chlorotoluene	12.945	91	1301823	156.214	ug/l	98
83) tert-Butylbenzene	13.163	119	1322689	167.764	ug/l	97
84) 1,2,4-Trimethylbenzene	13.210	105	1519971	166.208	ug/l	100
85) sec-Butylbenzene	13.345	105	1905911	163.541	ug/l	98
86) p-Isopropyltoluene	13.457	119	1661152	168.632	ug/l	98
87) 1,3-Dichlorobenzene	13.457	146	884500	156.258	ug/l	99
88) 1,4-Dichlorobenzene	13.534	146	843528	148.379	ug/l	99
89) n-Butylbenzene	13.786	91	1532671	165.382	ug/l	97
90) Hexachloroethane	14.051	117	320022	151.545	ug/l	92
91) 1,2-Dichlorobenzene	13.828	146	747568	151.457	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.445	75	46462	148.637	ug/l	92
93) 1,2,4-Trichlorobenzene	15.098	180	507254	163.889	ug/l	99
94) Hexachlorobutadiene	15.204	225	266007	159.018	ug/l	99
95) Naphthalene	15.328	128	921526	175.288	ug/l	97
96) 1,2,3-Trichlorobenzene	15.522	180	446072	164.113	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080025.D
Acq On : 15 Nov 2024 12:18
Operator : RP/MD
Sample : VSTDICC150
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:10:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:08:17 2024
Response via : Initial Calibration

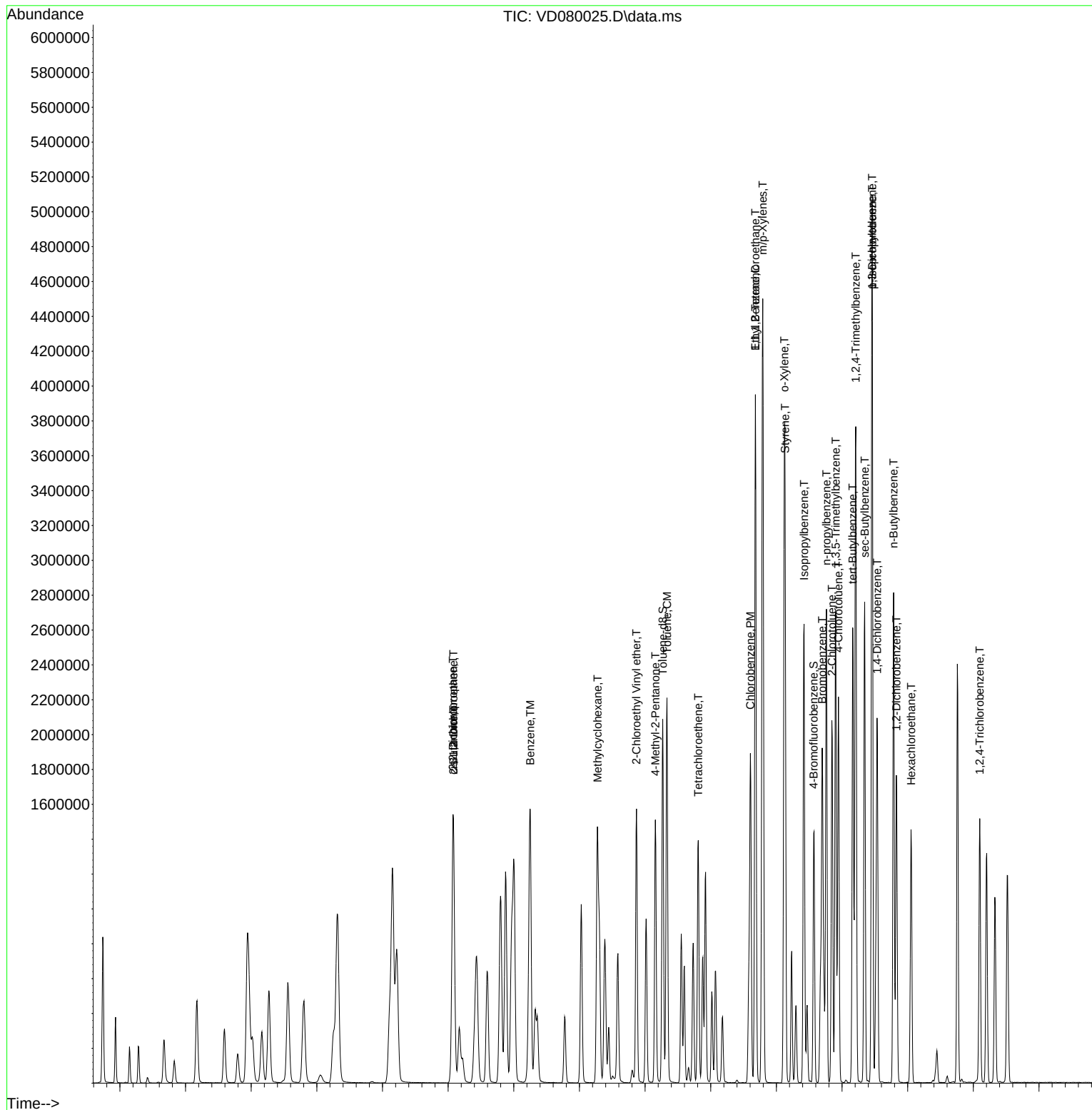
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080026.D
 Acq On : 15 Nov 2024 15:44
 Operator : RP/MD
 Sample : VSTDICV050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD111524

Quant Time: Nov 15 16:26:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	215478	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	329489	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.580	117	296784	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	153938	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.228	65	113355	51.094	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	102.180%
35) Dibromofluoromethane	7.804	113	114809	52.356	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	104.720%
50) Toluene-d8	10.269	98	453807	54.908	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	109.820%
62) 4-Bromofluorobenzene	12.574	95	150030	55.329	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	110.660%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.934	85	87603	50.656	ug/l	100
3) Chloromethane	2.146	50	55831	43.901	ug/l	94
4) Vinyl Chloride	2.287	62	65423	45.061	ug/l	98
5) Bromomethane	2.693	94	62774	40.938	ug/l	97
6) Chloroethane	2.834	64	46643	44.944	ug/l	95
7) Trichlorofluoromethane	3.175	101	181138	50.795	ug/l	93
8) Diethyl Ether	3.593	74	52244	50.186	ug/l	90
9) 1,1,2-Trichlorotrifluo...	3.963	101	119769	53.764	ug/l	97
10) Methyl Iodide	4.163	142	147950	53.656	ug/l	97
11) Tert butyl alcohol	5.051	59	28951	250.759	ug/l	98
12) 1,1-Dichloroethene	3.940	96	120448	53.945	ug/l	97
13) Acrolein	3.804	56	55642	251.168	ug/l	95
14) Allyl chloride	4.557	41	169922	53.689	ug/l	97
15) Acrylonitrile	5.251	53	118713	256.695	ug/l	100
16) Acetone	4.022	43	138091	286.874	ug/l	94
17) Carbon Disulfide	4.269	76	393902	54.788	ug/l	97
18) Methyl Acetate	4.563	43	54694	51.232	ug/l	98
19) Methyl tert-butyl Ether	5.322	73	241030	52.915	ug/l	99
20) Methylene Chloride	4.798	84	130898	50.705	ug/l	93
21) trans-1,2-Dichloroethene	5.310	96	128235	51.952	ug/l	94
22) Diisopropyl ether	6.216	45	346151	54.010	ug/l	99
23) Vinyl Acetate	6.157	43	1000805	272.557	ug/l	98
24) 1,1-Dichloroethane	6.110	63	215239	50.495	ug/l	97
25) 2-Butanone	7.081	43	159263	253.186	ug/l	99
26) 2,2-Dichloropropane	7.075	77	189500	51.144	ug/l	99
27) cis-1,2-Dichloroethene	7.081	96	145314	51.300	ug/l	98
28) Bromochloromethane	7.422	49	93627	49.357	ug/l #	94
29) Tetrahydrofuran	7.445	42	91293	264.950	ug/l	99
30) Chloroform	7.598	83	228856	50.961	ug/l	99
31) Cyclohexane	7.881	56	187203	51.818	ug/l	97
32) 1,1,1-Trichloroethane	7.792	97	198982	51.776	ug/l	99
36) 1,1-Dichloropropene	8.010	75	166277	55.453	ug/l	98
37) Ethyl Acetate	7.169	43	66430	51.543	ug/l	99
38) Carbon Tetrachloride	7.986	117	175856	53.679	ug/l	98
39) Methylcyclohexane	9.275	83	206276	57.781	ug/l	97
40) Benzene	8.251	78	496606	53.133	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080026.D
 Acq On : 15 Nov 2024 15:44
 Operator : RP/MD
 Sample : VSTDICV050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD111524

Quant Time: Nov 15 16:26:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
 Supervised By :Semsettin Yesilyurt 11/18/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.398	41	37264	53.575	ug/l	96
42) 1,2-Dichloroethane	8.322	62	125602	51.927	ug/l	98
43) Isopropyl Acetate	8.357	43	125392	53.670	ug/l	99
44) Trichloroethene	9.028	130	125426	51.860	ug/l	100
45) 1,2-Dichloropropane	9.304	63	120579	53.684	ug/l	99
46) Dibromomethane	9.392	93	68791	52.656	ug/l	96
47) Bromodichloromethane	9.586	83	171349	52.399	ug/l	99
48) Methyl methacrylate	9.381	41	62738	56.249	ug/l	95
49) 1,4-Dioxane	9.386	88	14046	1172.018	ug/l	95
51) 4-Methyl-2-Pentanone	10.157	43	332433	280.454	ug/l	100
52) Toluene	10.333	92	321271	55.314	ug/l	98
53) t-1,3-Dichloropropene	10.551	75	154500	53.002	ug/l	96
54) cis-1,3-Dichloropropene	10.016	75	184499	53.461	ug/l	99
55) 1,1,2-Trichloroethane	10.733	97	89211	51.615	ug/l	97
56) Ethyl methacrylate	10.598	69	113207	56.327	ug/l	96
57) 1,3-Dichloropropane	10.880	76	147929	52.612	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.869	63	236427	311.027	ug/l	98
59) 2-Hexanone	10.922	43	245472	281.545	ug/l	95
60) Dibromochloromethane	11.075	129	117958	53.022	ug/l	98
61) 1,2-Dibromoethane	11.180	107	86507	53.084	ug/l	99
64) Tetrachloroethene	10.810	164	114603	54.224	ug/l	96
65) Chlorobenzene	11.604	112	343629	53.078	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.680	131	118466	52.568	ug/l	98
67) Ethyl Benzene	11.680	91	603986	55.601	ug/l	98
68) m/p-Xylenes	11.792	106	479092	112.852	ug/l	99
69) o-Xylene	12.122	106	216945	56.850	ug/l	95
70) Styrene	12.133	104	384068	56.387	ug/l	99
71) Bromoform	12.298	173	69459	52.275	ug/l #	99
73) Isopropylbenzene	12.422	105	569454	57.363	ug/l	100
74) N-amyl acetate	12.233	43	121269	55.441	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.674	83	100457	52.655	ug/l	100
76) 1,2,3-Trichloropropane	12.722	75	69028m	50.782	ug/l	
77) Bromobenzene	12.698	156	140663	54.523	ug/l	98
78) n-propylbenzene	12.763	91	714370	58.228	ug/l	99
79) 2-Chlorotoluene	12.851	91	403695	56.111	ug/l	100
80) 1,3,5-Trimethylbenzene	12.904	105	483027	57.491	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.469	75	37189	55.994	ug/l	98
82) 4-Chlorotoluene	12.945	91	424664	55.214	ug/l	98
83) tert-Butylbenzene	13.169	119	420400	57.775	ug/l	98
84) 1,2,4-Trimethylbenzene	13.210	105	485565	57.531	ug/l	100
85) sec-Butylbenzene	13.345	105	633219	58.873	ug/l	99
86) p-Isopropyltoluene	13.463	119	540021	59.399	ug/l	98
87) 1,3-Dichlorobenzene	13.457	146	281797	53.941	ug/l	99
88) 1,4-Dichlorobenzene	13.539	146	275706	52.548	ug/l	99
89) n-Butylbenzene	13.786	91	499923	58.449	ug/l	99
90) Hexachloroethane	14.051	117	106998	54.900	ug/l	95
91) 1,2-Dichlorobenzene	13.833	146	242366	53.204	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.445	75	15553	53.911	ug/l	94
93) 1,2,4-Trichlorobenzene	15.098	180	154858	54.212	ug/l	100
94) Hexachlorobutadiene	15.204	225	89007	57.652	ug/l	99
95) Naphthalene	15.333	128	265493	54.718	ug/l	98
96) 1,2,3-Trichlorobenzene	15.521	180	135495	54.013	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080026.D
Acq On : 15 Nov 2024 15:44
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
ICVVD111524

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

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

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

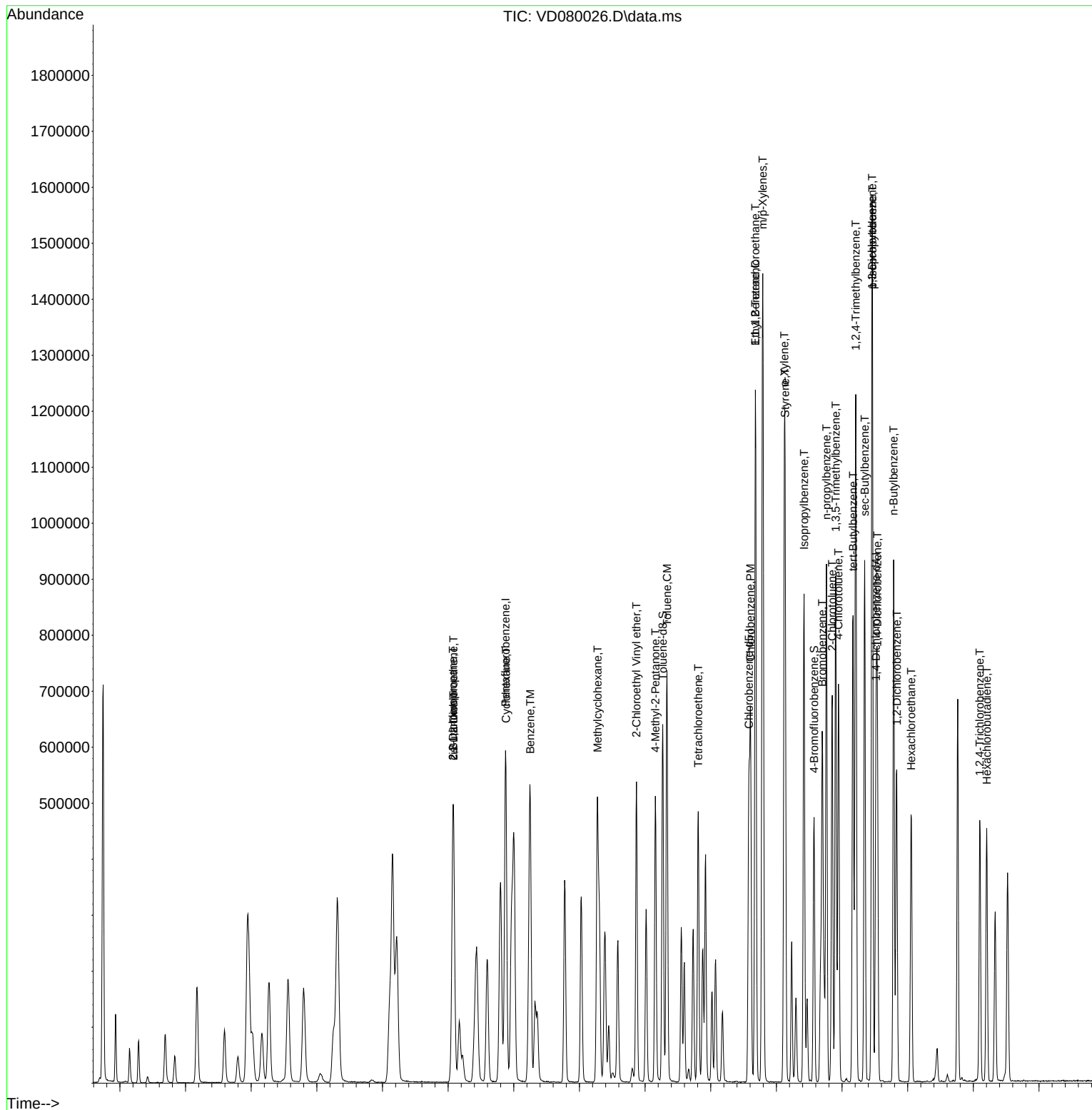
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080026.D
Acq On : 15 Nov 2024 15:44
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
ICVVD111524

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/18/2024
Supervised By :Semsettin Yesilyurt 11/18/2024

Quant Time: Nov 15 16:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080026.D
 Acq On : 15 Nov 2024 15:44
 Operator : RP/MD
 Sample : VSTDICV050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD111524

Quant Time: Nov 15 16:26:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 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	106	0.00
2 T	Dichlorodifluoromethane	0.401	0.407	-1.5	108	0.00
3 P	Chloromethane	0.295	0.259	12.2	99	0.00
4 C	Vinyl Chloride	0.337	0.304	9.8#	100	0.00
5 T	Bromomethane	0.374	0.291	22.2	101	0.00
6 T	Chloroethane	0.241	0.216	10.4	110	0.00
7 T	Trichlorofluoromethane	0.827	0.841	-1.7	116	0.00
8 T	Diethyl Ether	0.242	0.242	0.0	113	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.517	0.556	-7.5	122	0.00
10 T	Methyl Iodide	0.640	0.687	-7.3	104	0.00
11 T	Tert butyl alcohol	0.027	0.027	0.0	124	0.00
12 CM	1,1-Dichloroethene	0.518	0.559	-7.9#	120	0.00
13 T	Acrolein	0.051	0.052	-2.0	113	0.01
14 T	Allyl chloride	0.734	0.789	-7.5	130	0.00
15 T	Acrylonitrile	0.107	0.110	-2.8	116	0.00
16 T	Acetone	0.112	0.128	-14.3	128	0.00
17 T	Carbon Disulfide	1.668	1.828	-9.6	124	0.00
18 T	Methyl Acetate	0.248	0.254	-2.4	125	0.00
19 T	Methyl tert-butyl Ether	1.057	1.119	-5.9	108	0.00
20 T	Methylene Chloride	0.599	0.607	-1.3	115	0.00
21 T	trans-1,2-Dichloroethene	0.573	0.595	-3.8	109	0.00
22 T	Diisopropyl ether	1.487	1.606	-8.0	109	0.00
23 T	Vinyl Acetate	0.852	0.929	-9.0	107	0.00
24 P	1,1-Dichloroethane	0.989	0.999	-1.0	108	0.00
25 T	2-Butanone	0.146	0.148	-1.4	101	0.00
26 T	2,2-Dichloropropane	0.860	0.879	-2.2	111	0.00
27 T	cis-1,2-Dichloroethene	0.657	0.674	-2.6	109	0.00
28 T	Bromochloromethane	0.440	0.435	1.1	113	0.00
29 T	Tetrahydrofuran	0.080	0.085	-6.3	105	0.00
30 C	Chloroform	1.042	1.062	-1.9#	110	0.00
31 T	Cyclohexane	0.838	0.869	-3.7	115	0.00
32 T	1,1,1-Trichloroethane	0.892	0.923	-3.5	112	0.00
33 S	1,2-Dichloroethane-d4	0.515	0.526	-2.1	106	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
35 S	Dibromofluoromethane	0.333	0.348	-4.5	106	0.00
36 T	1,1-Dichloropropene	0.455	0.505	-11.0	114	0.00
37 T	Ethyl Acetate	0.196	0.202	-3.1	107	0.00
38 T	Carbon Tetrachloride	0.497	0.534	-7.4	112	0.00
39 T	Methylcyclohexane	0.542	0.626	-15.5	116	0.00
40 TM	Benzene	1.418	1.507	-6.3	108	0.00
41 T	Methacrylonitrile	0.106	0.113	-6.6	112	0.00
42 TM	1,2-Dichloroethane	0.367	0.381	-3.8	107	0.00
43 T	Isopropyl Acetate	0.355	0.381	-7.3	107	0.00
44 TM	Trichloroethene	0.367	0.381	-3.8	109	0.00
45 C	1,2-Dichloropropane	0.341	0.366	-7.3#	107	0.00
46 T	Dibromomethane	0.198	0.209	-5.6	110	0.00
47 T	Bromodichloromethane	0.496	0.520	-4.8	107	0.00
48 T	Methyl methacrylate	0.169	0.190	-12.4	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080026.D
 Acq On : 15 Nov 2024 15:44
 Operator : RP/MD
 Sample : VSTDICV050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD111524

Quant Time: Nov 15 16:26:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 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	105	0.00
50 S	Toluene-d8	1.254	1.377	-9.8	107	0.00
51 T	4-Methyl-2-Pentanone	0.180	0.202	-12.2	108	0.00
52 CM	Toluene	0.881	0.975	-10.7#	110	0.00
53 T	t-1,3-Dichloropropene	0.442	0.469	-6.1	105	0.00
54 T	cis-1,3-Dichloropropene	0.524	0.560	-6.9	106	0.00
55 T	1,1,2-Trichloroethane	0.262	0.271	-3.4	104	0.00
56 T	Ethyl methacrylate	0.305	0.344	-12.8	107	0.00
57 T	1,3-Dichloropropane	0.427	0.449	-5.2	106	0.00
58 T	2-Chloroethyl Vinyl ether	0.115	0.144	-25.2#	120	0.00
59 T	2-Hexanone	0.132	0.149	-12.9	105	0.00
60 T	Dibromochloromethane	0.338	0.358	-5.9	106	0.00
61 T	1,2-Dibromoethane	0.247	0.263	-6.5	107	0.00
62 S	4-Bromofluorobenzene	0.411	0.455	-10.7	108	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
64 T	Tetrachloroethene	0.356	0.386	-8.4	113	0.00
65 PM	Chlorobenzene	1.091	1.158	-6.1	108	0.00
66 T	1,1,1,2-Tetrachloroethane	0.380	0.399	-5.0	105	0.00
67 C	Ethyl Benzene	1.830	2.035	-11.2#	109	0.00
68 T	m/p-Xylenes	0.715	0.807	-12.9	111	0.00
69 T	o-Xylene	0.643	0.731	-13.7	109	0.00
70 T	Styrene	1.148	1.294	-12.7	106	0.00
71 P	Bromoform	0.224	0.234	-4.5	104	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
73 T	Isopropylbenzene	3.224	3.699	-14.7	111	0.00
74 T	N-amyl acetate	0.710	0.788	-11.0	103	0.00
75 P	1,1,2,2-Tetrachloroethane	0.620	0.653	-5.3	106	0.00
76 T	1,2,3-Trichloropropane	0.442	0.448	-1.4	108	0.00
77 T	Bromobenzene	0.838	0.914	-9.1	108	0.00
78 T	n-propylbenzene	3.985	4.641	-16.5	112	0.00
79 T	2-Chlorotoluene	2.337	2.622	-12.2	109	0.00
80 T	1,3,5-Trimethylbenzene	2.729	3.138	-15.0	110	0.00
81 T	trans-1,4-Dichloro-2-butene	0.216	0.242	-12.0	108	0.00
82 T	4-Chlorotoluene	2.498	2.759	-10.4	108	0.00
83 T	tert-Butylbenzene	2.363	2.731	-15.6	112	0.00
84 T	1,2,4-Trimethylbenzene	2.741	3.154	-15.1	109	0.00
85 T	sec-Butylbenzene	3.494	4.113	-17.7	115	0.00
86 T	p-Isopropyltoluene	2.953	3.508	-18.8	114	0.00
87 T	1,3-Dichlorobenzene	1.697	1.831	-7.9	107	0.00
88 T	1,4-Dichlorobenzene	1.704	1.791	-5.1	106	0.00
89 T	n-Butylbenzene	2.778	3.248	-16.9	114	0.00
90 T	Hexachloroethane	0.633	0.695	-9.8	113	0.00
91 T	1,2-Dichlorobenzene	1.480	1.574	-6.4	105	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.094	0.101	-7.4	109	0.00
93 T	1,2,4-Trichlorobenzene	0.928	1.006	-8.4	107	0.00
94 T	Hexachlorobutadiene	0.501	0.578	-15.4	115	0.00
95 T	Naphthalene	1.576	1.725	-9.5	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080026.D
Acq On : 15 Nov 2024 15:44
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
ICVVD111524

Quant Time: Nov 15 16:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 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	0.815	0.880	-8.0	105	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080026.D
 Acq On : 15 Nov 2024 15:44
 Operator : RP/MD
 Sample : VSTDICV050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD111524

Quant Time: Nov 15 16:26:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 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	106	0.00
2 T	Dichlorodifluoromethane	50.000	50.656	-1.3	108	0.00
3 P	Chloromethane	50.000	43.901	12.2	99	0.00
4 C	Vinyl Chloride	50.000	45.061	9.9#	100	0.00
5 T	Bromomethane	50.000	40.938	18.1	101	0.00
6 T	Chloroethane	50.000	44.944	10.1	110	0.00
7 T	Trichlorofluoromethane	50.000	50.795	-1.6	116	0.00
8 T	Diethyl Ether	50.000	50.186	-0.4	113	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.764	-7.5	122	0.00
10 T	Methyl Iodide	50.000	53.656	-7.3	104	0.00
11 T	Tert butyl alcohol	250.000	250.759	-0.3	124	0.00
12 CM	1,1-Dichloroethene	50.000	53.945	-7.9#	120	0.00
13 T	Acrolein	250.000	251.168	-0.5	113	0.01
14 T	Allyl chloride	50.000	53.689	-7.4	130	0.00
15 T	Acrylonitrile	250.000	256.695	-2.7	116	0.00
16 T	Acetone	250.000	286.874	-14.7	128	0.00
17 T	Carbon Disulfide	50.000	54.788	-9.6	124	0.00
18 T	Methyl Acetate	50.000	51.232	-2.5	125	0.00
19 T	Methyl tert-butyl Ether	50.000	52.915	-5.8	108	0.00
20 T	Methylene Chloride	50.000	50.705	-1.4	115	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.952	-3.9	109	0.00
22 T	Diisopropyl ether	50.000	54.010	-8.0	109	0.00
23 T	Vinyl Acetate	250.000	272.557	-9.0	107	0.00
24 P	1,1-Dichloroethane	50.000	50.495	-1.0	108	0.00
25 T	2-Butanone	250.000	253.186	-1.3	101	0.00
26 T	2,2-Dichloropropane	50.000	51.144	-2.3	111	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.300	-2.6	109	0.00
28 T	Bromochloromethane	50.000	49.357	1.3	113	0.00
29 T	Tetrahydrofuran	250.000	264.950	-6.0	105	0.00
30 C	Chloroform	50.000	50.961	-1.9#	110	0.00
31 T	Cyclohexane	50.000	51.818	-3.6	115	0.00
32 T	1,1,1-Trichloroethane	50.000	51.776	-3.6	112	0.00
33 S	1,2-Dichloroethane-d4	50.000	51.094	-2.2	106	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	103	0.00
35 S	Dibromofluoromethane	50.000	52.356	-4.7	106	0.00
36 T	1,1-Dichloropropene	50.000	55.453	-10.9	114	0.00
37 T	Ethyl Acetate	50.000	51.543	-3.1	107	0.00
38 T	Carbon Tetrachloride	50.000	53.679	-7.4	112	0.00
39 T	Methylcyclohexane	50.000	57.781	-15.6	116	0.00
40 TM	Benzene	50.000	53.133	-6.3	108	0.00
41 T	Methacrylonitrile	50.000	53.575	-7.2	112	0.00
42 TM	1,2-Dichloroethane	50.000	51.927	-3.9	107	0.00
43 T	Isopropyl Acetate	50.000	53.670	-7.3	107	0.00
44 TM	Trichloroethene	50.000	51.860	-3.7	109	0.00
45 C	1,2-Dichloropropane	50.000	53.684	-7.4#	107	0.00
46 T	Dibromomethane	50.000	52.656	-5.3	110	0.00
47 T	Bromodichloromethane	50.000	52.399	-4.8	107	0.00
48 T	Methyl methacrylate	50.000	56.249	-12.5	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
 Data File : VD080026.D
 Acq On : 15 Nov 2024 15:44
 Operator : RP/MD
 Sample : VSTDICV050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD111524

Quant Time: Nov 15 16:26:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 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	1172.018	-17.2	105	0.00
50 S	Toluene-d8	50.000	54.908	-9.8	107	0.00
51 T	4-Methyl-2-Pentanone	250.000	280.454	-12.2	108	0.00
52 CM	Toluene	50.000	55.314	-10.6#	110	0.00
53 T	t-1,3-Dichloropropene	50.000	53.002	-6.0	105	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.461	-6.9	106	0.00
55 T	1,1,2-Trichloroethane	50.000	51.615	-3.2	104	0.00
56 T	Ethyl methacrylate	50.000	56.327	-12.7	107	0.00
57 T	1,3-Dichloropropane	50.000	52.612	-5.2	106	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	311.027	-24.4	120	0.00
59 T	2-Hexanone	250.000	281.545	-12.6	105	0.00
60 T	Dibromochloromethane	50.000	53.022	-6.0	106	0.00
61 T	1,2-Dibromoethane	50.000	53.084	-6.2	107	0.00
62 S	4-Bromofluorobenzene	50.000	55.329	-10.7	108	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
64 T	Tetrachloroethene	50.000	54.224	-8.4	113	0.00
65 PM	Chlorobenzene	50.000	53.078	-6.2	108	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.568	-5.1	105	0.00
67 C	Ethyl Benzene	50.000	55.601	-11.2#	109	0.00
68 T	m/p-Xylenes	100.000	112.852	-12.9	111	0.00
69 T	o-Xylene	50.000	56.850	-13.7	109	0.00
70 T	Styrene	50.000	56.387	-12.8	106	0.00
71 P	Bromoform	50.000	52.275	-4.5	104	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	99	0.00
73 T	Isopropylbenzene	50.000	57.363	-14.7	111	0.00
74 T	N-amyl acetate	50.000	55.441	-10.9	103	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.655	-5.3	106	0.00
76 T	1,2,3-Trichloropropane	50.000	50.782	-1.6	108	0.00
77 T	Bromobenzene	50.000	54.523	-9.0	108	0.00
78 T	n-propylbenzene	50.000	58.228	-16.5	112	0.00
79 T	2-Chlorotoluene	50.000	56.111	-12.2	109	0.00
80 T	1,3,5-Trimethylbenzene	50.000	57.491	-15.0	110	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	55.994	-12.0	108	0.00
82 T	4-Chlorotoluene	50.000	55.214	-10.4	108	0.00
83 T	tert-Butylbenzene	50.000	57.775	-15.5	112	0.00
84 T	1,2,4-Trimethylbenzene	50.000	57.531	-15.1	109	0.00
85 T	sec-Butylbenzene	50.000	58.873	-17.7	115	0.00
86 T	p-Isopropyltoluene	50.000	59.399	-18.8	114	0.00
87 T	1,3-Dichlorobenzene	50.000	53.941	-7.9	107	0.00
88 T	1,4-Dichlorobenzene	50.000	52.548	-5.1	106	0.00
89 T	n-Butylbenzene	50.000	58.449	-16.9	114	0.00
90 T	Hexachloroethane	50.000	54.900	-9.8	113	0.00
91 T	1,2-Dichlorobenzene	50.000	53.204	-6.4	105	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	53.911	-7.8	109	0.00
93 T	1,2,4-Trichlorobenzene	50.000	54.212	-8.4	107	0.00
94 T	Hexachlorobutadiene	50.000	57.652	-15.3	115	0.00
95 T	Naphthalene	50.000	54.718	-9.4	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080026.D
Acq On : 15 Nov 2024 15:44
Operator : RP/MD
Sample : VSTDICV050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
ICVVD111524

Quant Time: Nov 15 16:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 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	54.013	-8.0	105	0.00

(#) = Out of Range

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CORN02
 Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860
 Instrument ID: MSVOA_Y Calibration Date(s): 11/19/2024 11/19/2024
 Heated Purge: (Y/N) Y Calibration Time(s): 15:49 17:42
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF005 = VY020338.D			RRF010 = VY020339.D		RRF020 = VY020340.D			
	RRF050 = VY020341.D			RRF100 = VY020342.D		RRF150 = VY020343.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.573	0.448	0.467	0.454	0.465	0.506	0.485	9.8	
Chloromethane	0.989	0.788	0.765	0.681	0.589	0.599	0.735	20.3	
Vinyl Chloride	0.816	0.722	0.664	0.622	0.572	0.599	0.666	13.6	
Bromomethane	0.415	0.391	0.293	0.314	0.280	0.302	0.333	16.9	
Chloroethane	0.531	0.376	0.362	0.370	0.334	0.357	0.388	18.3	
Trichlorofluoromethane	1.130	0.863	0.896	0.931	0.821	0.910	0.925	11.6	
1,1,2-Trichlorotrifluoroethane	0.666	0.508	0.536	0.592	0.479	0.525	0.551	12.3	
1,1-Dichloroethene	0.647	0.492	0.536	0.586	0.488	0.524	0.545	11.2	
Acetone	0.160	0.110	0.132	0.160	0.141	0.123	0.138	14.7	
Carbon Disulfide	2.169	1.635	1.750	2.073	1.647	1.753	1.838	12.4	
Methyl tert-butyl Ether	1.574	1.297	1.482	1.399	1.404	1.346	1.417	7	
Methyl Acetate	0.388	0.283	0.339	0.302	0.327	0.288	0.321	12.2	
Methylene Chloride	0.693	0.546	0.595	0.571	0.543	0.552	0.583	9.8	
trans-1,2-Dichloroethene	0.721	0.563	0.627	0.601	0.552	0.571	0.606	10.4	
1,1-Dichloroethane	1.461	1.141	1.083	1.137	1.101	1.117	1.173	12.2	
Cyclohexane	1.318	1.107	1.004	1.035	0.969	0.991	1.071	12.2	
2-Butanone	0.179	0.176	0.168	0.180	0.197	0.165	0.177	6.5	
Carbon Tetrachloride	0.575	0.500	0.500	0.478	0.483	0.533	0.511	7.2	
cis-1,2-Dichloroethene	0.710	0.664	0.643	0.687	0.647	0.653	0.667	3.9	
Bromochloromethane	0.534	0.553	0.441	0.509	0.450	0.476	0.494	9.2	
Chloroform	1.198	1.161	1.069	1.236	1.064	1.072	1.133	6.6	
1,1,1-Trichloroethane	1.068	1.042	0.941	0.997	0.940	0.982	0.995	5.3	
Methylcyclohexane	0.695	0.587	0.612	0.583	0.570	0.630	0.613	7.5	
Benzene	1.632	1.376	1.440	1.348	1.378	1.435	1.435	7.2	
1,2-Dichloroethane	0.416	0.372	0.398	0.364	0.386	0.389	0.387	4.8	
Trichloroethene	0.388	0.331	0.343	0.320	0.318	0.339	0.340	7.5	
1,2-Dichloropropane	0.374	0.331	0.348	0.319	0.334	0.347	0.342	5.5	
Bromodichloromethane	0.525	0.458	0.479	0.492	0.463	0.490	0.484	5	
4-Methyl-2-Pentanone	0.210	0.190	0.219	0.246	0.245	0.219	0.221	9.7	
Toluene	0.970	0.836	0.890	0.850	0.829	0.889	0.877	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.



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CORN02
 Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860
 Instrument ID: MSVOA_Y Calibration Date(s): 11/19/2024 11/19/2024
 Heated Purge: (Y/N) Y Calibration Time(s): 15:49 17:42
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY020338.D		RRF010 = VY020339.D		RRF020 = VY020340.D			
		RRF050 = VY020341.D		RRF100 = VY020342.D		RRF150 = VY020343.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.534	0.401	0.446	0.448	0.456	0.463	0.458	9.5	
cis-1,3-Dichloropropene	0.541	0.493	0.527	0.505	0.530	0.551	0.524	4.1	
1,1,2-Trichloroethane	0.250	0.223	0.263	0.219	0.222	0.221	0.233	8.1	
2-Hexanone	0.142	0.135	0.160	0.171	0.177	0.155	0.157	10.3	
Dibromochloromethane	0.319	0.273	0.307	0.305	0.297	0.300	0.300	5.1	
1,2-Dibromoethane	0.247	0.200	0.221	0.217	0.204	0.206	0.216	8.1	
Tetrachloroethene	0.402	0.344	0.401	0.331	0.333	0.350	0.360	9.1	
Chlorobenzene	1.258	1.079	1.083	1.144	1.040	1.085	1.115	7	
Ethyl Benzene	2.319	1.973	2.002	2.051	1.932	2.063	2.057	6.7	
m/p-Xylenes	0.829	0.725	0.742	0.708	0.696	0.745	0.741	6.4	
o-Xylene	0.770	0.694	0.711	0.668	0.666	0.706	0.703	5.4	
Styrene	1.261	1.128	1.165	1.131	1.131	1.188	1.167	4.5	
Bromoform	0.207	0.180	0.195	0.189	0.199	0.194	0.194	4.7	
Isopropylbenzene	4.851	4.028	4.070	4.314	3.899	4.251	4.236	8	
1,1,2,2-Tetrachloroethane	0.729	0.646	0.683	0.728	0.676	0.646	0.685	5.4	
1,3-Dichlorobenzene	2.072	1.668	1.839	1.848	1.621	1.719	1.794	9.1	
1,4-Dichlorobenzene	1.938	1.651	1.709	1.730	1.579	1.679	1.714	7.1	
1,2-Dichlorobenzene	1.630	1.401	1.506	1.547	1.414	1.474	1.495	5.7	
1,2-Dibromo-3-Chloropropane	0.130	0.098	0.108	0.119	0.113	0.105	0.112	10	
1,2,4-Trichlorobenzene	0.974	0.841	0.856	0.894	0.900	0.958	0.904	5.9	
1,2,3-Trichlorobenzene	0.817	0.784	0.721	0.748	0.762	0.806	0.773	4.7	
1,2-Dichloroethane-d4	0.609	0.523	0.545	0.636	0.563	0.571	0.574	7.3	
Dibromofluoromethane	0.346	0.347	0.307	0.323	0.288	0.312	0.321	7.2	
Toluene-d8	1.397	1.186	1.208	1.398	1.130	1.259	1.263	8.9	
4-Bromofluorobenzene	0.459	0.381	0.384	0.430	0.369	0.413	0.406	8.5	

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

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

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

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

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

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

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

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

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

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

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

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

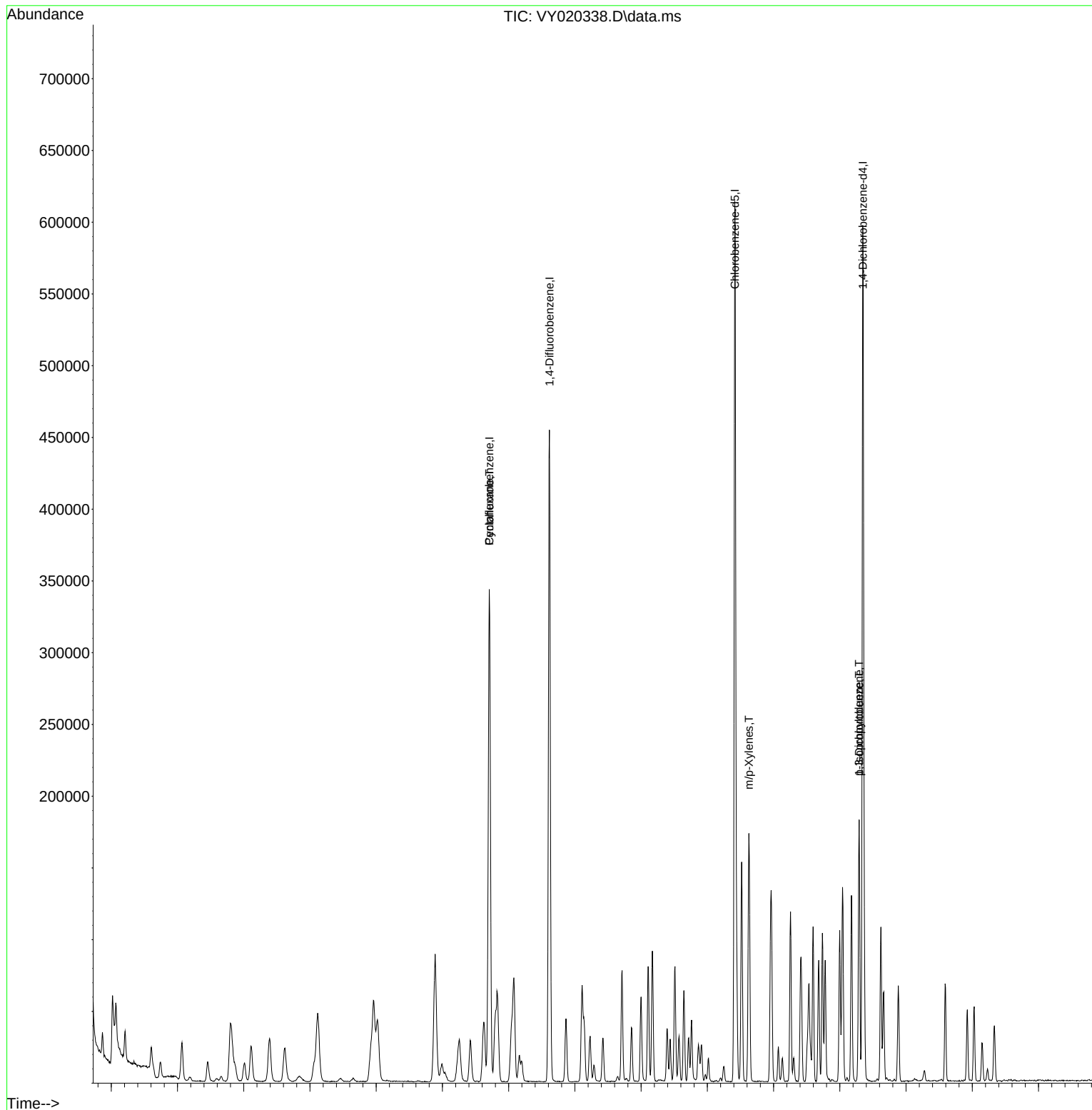
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020338.D
Acq On : 19 Nov 2024 15:49
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

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

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

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

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

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

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

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

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

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

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

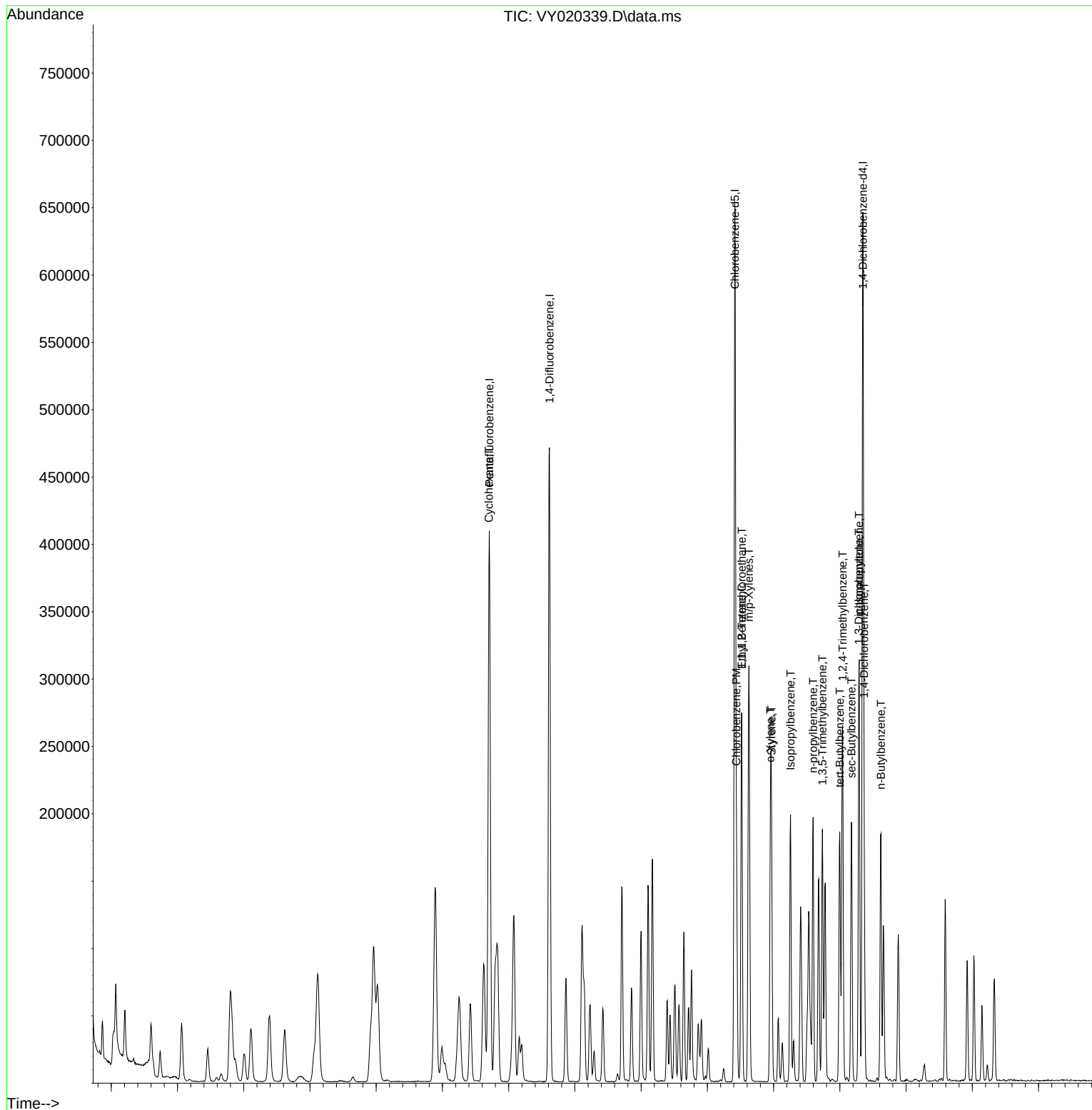
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020339.D
Acq On : 19 Nov 2024 16:12
Operator : SY/MD
Sample : VSTDIC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC010

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

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

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

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	236844	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	387251	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	330555	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	152521	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	51590	18.960	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	37.920%#
35) Dibromofluoromethane	7.634	113	47609	19.173	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	38.340%#
50) Toluene-d8	10.103	98	187150	19.133	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	38.260%#
62) 4-Bromofluorobenzene	12.402	95	59520	18.928	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	37.860%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	44219	19.234	ug/l	98
3) Chloromethane	2.068	50	72456	21.422	ug/l	98
4) Vinyl Chloride	2.208	62	62913	19.948	ug/l	94
5) Bromomethane	2.598	94	27790	17.643	ug/l	98
6) Chloroethane	2.739	64	34289	18.637	ug/l	95
7) Trichlorofluoromethane	3.062	101	84918	19.375	ug/l	98
8) Diethyl Ether	3.458	74	27857	20.145	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	50736	19.438	ug/l	100
10) Methyl Iodide	4.007	142	68857	19.695	ug/l	98
11) Tert butyl alcohol	4.879	59	21940	103.899	ug/l	96
12) 1,1-Dichloroethene	3.793	96	50747	19.641	ug/l	96
13) Acrolein	3.665	56	16692	99.067	ug/l	93
14) Allyl chloride	4.385	41	102220	20.460	ug/l	92
15) Acrylonitrile	5.061	53	66014	107.992	ug/l	99
16) Acetone	3.873	43	62372	95.616	ug/l	95
17) Carbon Disulfide	4.110	76	165744	19.041	ug/l	98
18) Methyl Acetate	4.385	43	32091	21.105	ug/l	96
19) Methyl tert-butyl Ether	5.116	73	140395	20.918	ug/l	100
20) Methylene Chloride	4.616	84	56330	20.392	ug/l	94
21) trans-1,2-Dichloroethene	5.122	96	59438	20.713	ug/l	91
22) Diisopropyl ether	6.019	45	178817	18.162	ug/l	95
23) Vinyl Acetate	5.964	43	505150	91.808	ug/l	100
24) 1,1-Dichloroethane	5.915	63	102627	18.464	ug/l	98
25) 2-Butanone	6.903	43	79554	94.731	ug/l	99
26) 2,2-Dichloropropane	6.890	77	85051	18.513	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	60883	19.263	ug/l	98
28) Bromochloromethane	7.244	49	41798	17.867	ug/l	99
29) Tetrahydrofuran	7.262	42	47318	94.274	ug/l	99
30) Chloroform	7.421	83	101251	18.864	ug/l	98
31) Cyclohexane	7.707	56	95143	18.757	ug/l #	91
32) 1,1,1-Trichloroethane	7.616	97	89105	18.907	ug/l	99
36) 1,1-Dichloropropene	7.835	75	75098	19.801	ug/l	99
37) Ethyl Acetate	6.988	43	34643	19.590	ug/l	98
38) Carbon Tetrachloride	7.823	117	77388	19.543	ug/l	96
39) Methylcyclohexane	9.109	83	94807	19.974	ug/l	98
40) Benzene	8.085	78	223070	20.070	ug/l	99

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

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

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

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

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

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

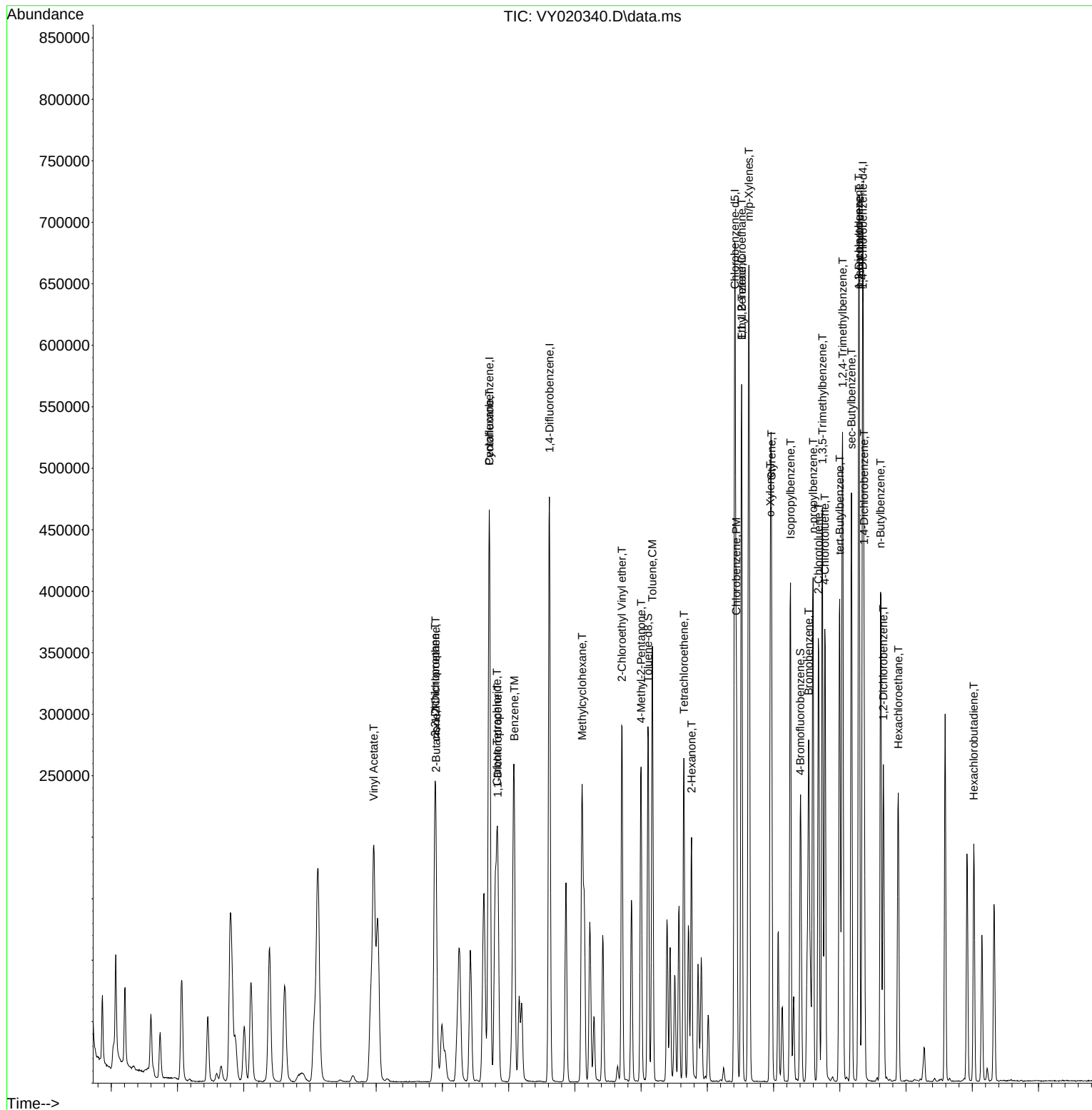
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020340.D
Acq On : 19 Nov 2024 16:35
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

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

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

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	227113	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	420316	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	360842	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	149547	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	144497	55.378	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	110.760%
35) Dibromofluoromethane	7.634	113	135608	50.315	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.620%
50) Toluene-d8	10.109	98	587453	55.332	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	110.660%
62) 4-Bromofluorobenzene	12.402	95	180882	52.998	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	106.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	103026	46.735	ug/l	100
3) Chloromethane	2.068	50	154573	53.880	ug/l	100
4) Vinyl Chloride	2.208	62	141208	46.691	ug/l	100
5) Bromomethane	2.598	94	71314	47.214	ug/l	100
6) Chloroethane	2.739	64	83973	47.597	ug/l	100
7) Trichlorofluoromethane	3.062	101	211527	50.331	ug/l	100
8) Diethyl Ether	3.458	74	69448	52.373	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	134494	53.736	ug/l	100
10) Methyl Iodide	4.007	142	187546	55.942	ug/l	100
11) Tert butyl alcohol	4.879	59	41051	212.148	ug/l	100
12) 1,1-Dichloroethene	3.793	96	133044	53.701	ug/l	100
13) Acrolein	3.659	56	41213	255.080	ug/l	100
14) Allyl chloride	4.391	41	214855	44.846	ug/l	100
15) Acrylonitrile	5.061	53	140610	239.879	ug/l	100
16) Acetone	3.873	43	181648	290.397	ug/l	100
17) Carbon Disulfide	4.110	76	470701	56.393	ug/l	100
18) Methyl Acetate	4.391	43	68494	46.975	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	317819	49.382	ug/l	100
20) Methylene Chloride	4.616	84	129583	48.919	ug/l	100
21) trans-1,2-Dichloroethene	5.122	96	136395	49.567	ug/l	100
22) Diisopropyl ether	6.025	45	457338	48.440	ug/l	100
23) Vinyl Acetate	5.964	43	1302817	246.924	ug/l	100
24) 1,1-Dichloroethane	5.921	63	258252	48.453	ug/l	100
25) 2-Butanone	6.896	43	203885	253.183	ug/l	100
26) 2,2-Dichloropropane	6.884	77	217639	49.403	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	156034	51.482	ug/l	100
28) Bromochloromethane	7.244	49	115631	51.546	ug/l	100
29) Tetrahydrofuran	7.268	42	121226	251.872	ug/l	100
30) Chloroform	7.421	83	280651	54.528	ug/l	100
31) Cyclohexane	7.701	56	235065	48.327	ug/l	100
32) 1,1,1-Trichloroethane	7.622	97	226463	50.111	ug/l	100
36) 1,1-Dichloropropene	7.841	75	190663	46.316	ug/l	100
37) Ethyl Acetate	6.988	43	89102	46.422	ug/l	100
38) Carbon Tetrachloride	7.823	117	200826	46.725	ug/l	100
39) Methylcyclohexane	9.110	83	245019	47.559	ug/l	100
40) Benzene	8.079	78	566676	46.974	ug/l	100

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

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

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC050

Manual Integrations
APPROVED

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

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

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

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

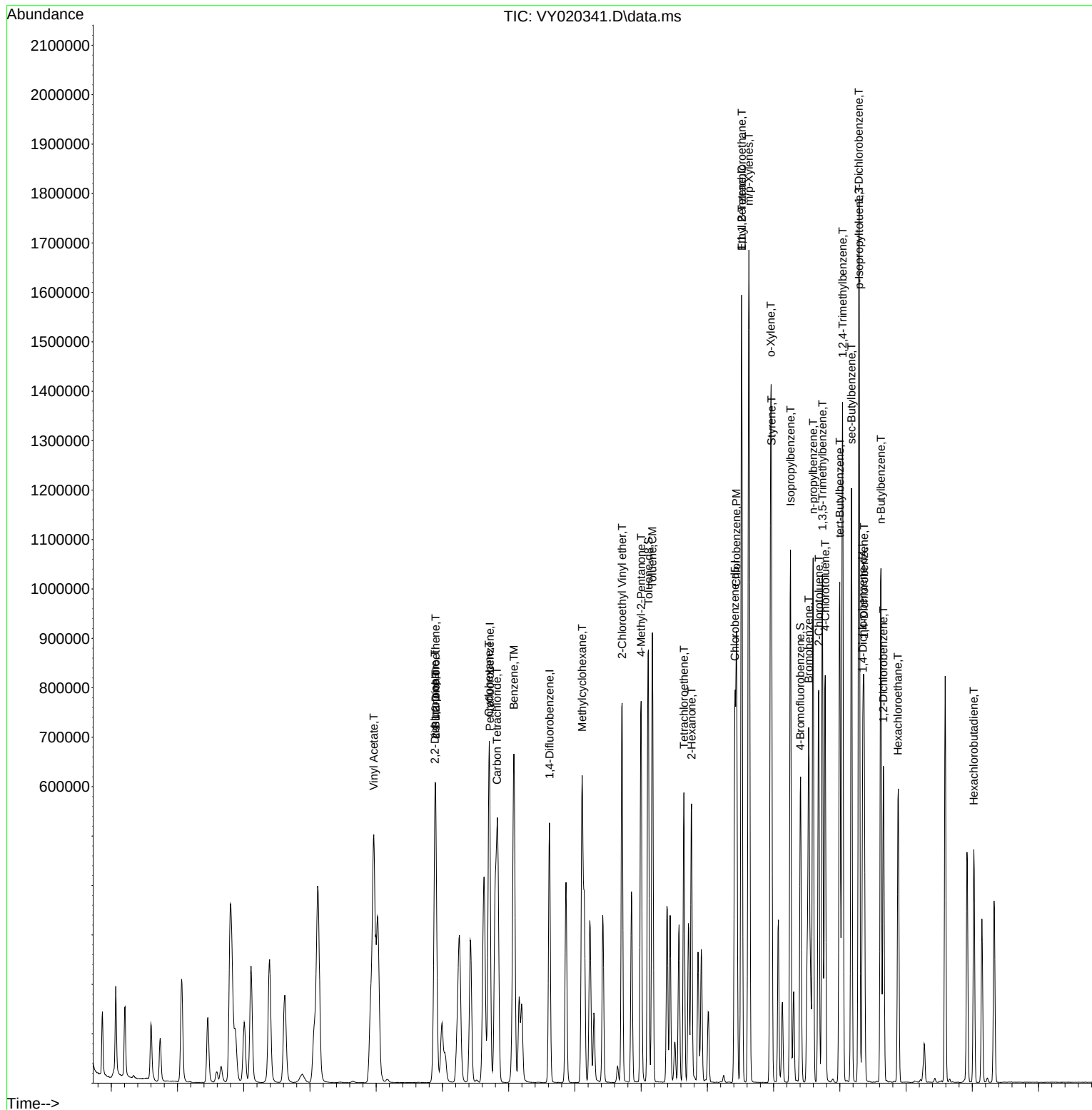
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020341.D
Acq On : 19 Nov 2024 16:57
Operator : SY/MD
Sample : VSTDIC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC050

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

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

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

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

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

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

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

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

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

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

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

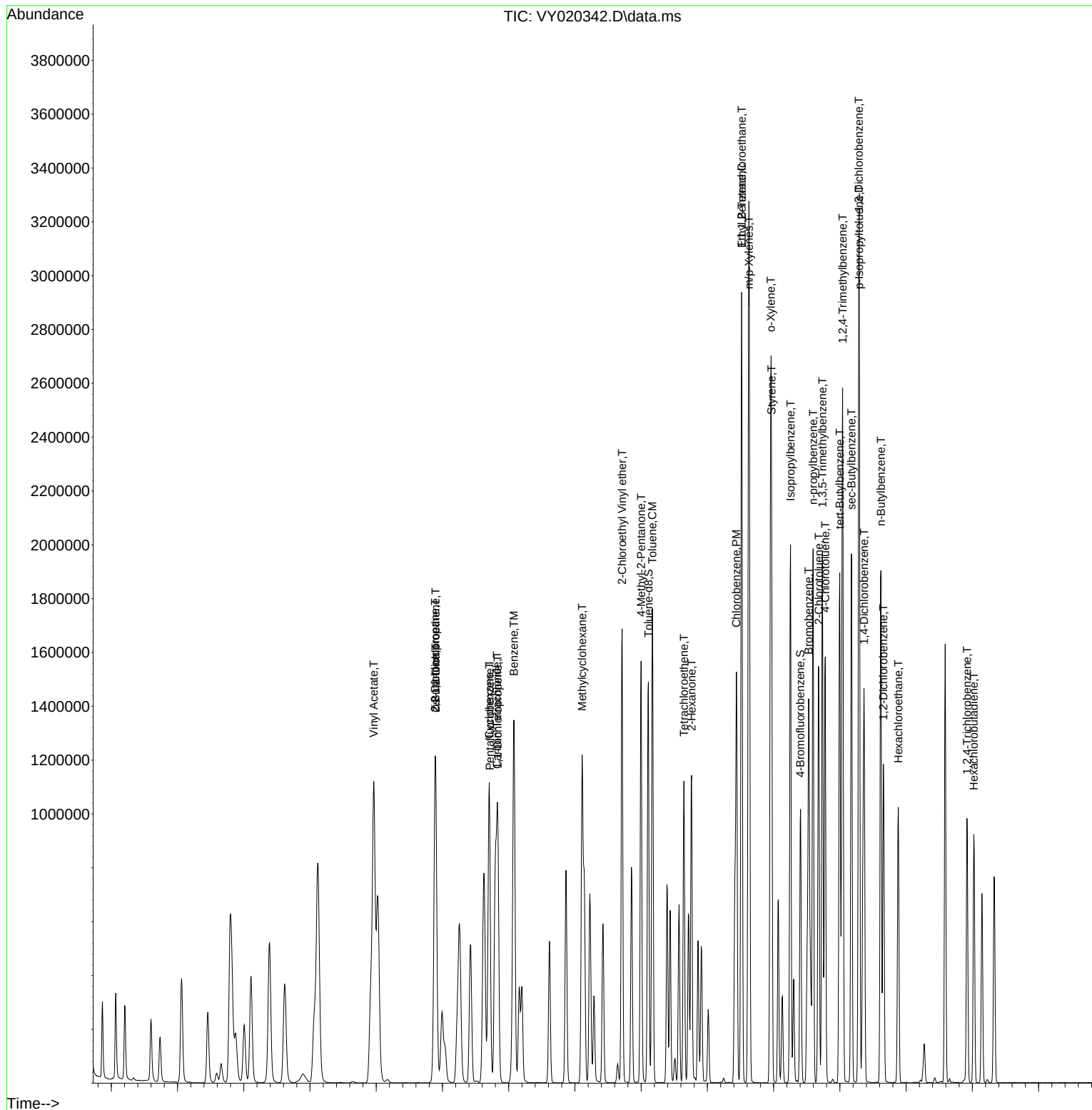
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020342.D
Acq On : 19 Nov 2024 17:20
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

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



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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

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

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

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	211886	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	350739	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	296115	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	130996	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	363043	149.135	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	298.280%#
35) Dibromofluoromethane	7.634	113	328532	146.077	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	292.160%#
50) Toluene-d8	10.109	98	1324547	149.507	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	299.020%#
62) 4-Bromofluorobenzene	12.407	95	434570	152.587	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	305.180%#

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.867	85	321802	156.466	ug/l	99
3) Chloromethane	2.068	50	381050	150.712	ug/l	97
4) Vinyl Chloride	2.208	62	380588	134.887	ug/l	99
5) Bromomethane	2.598	94	192082	136.310	ug/l	98
6) Chloroethane	2.738	64	227195	138.032	ug/l	99
7) Trichlorofluoromethane	3.062	101	578218	147.470	ug/l	99
8) Diethyl Ether	3.458	74	181261	146.519	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	333758	142.933	ug/l	99
10) Methyl Iodide	4.007	142	446636	142.799	ug/l	97
11) Tert butyl alcohol	4.891	59	104155	729.517	ug/l	99
12) 1,1-Dichloroethene	3.793	96	333059	144.094	ug/l	100
13) Acrolein	3.659	56	116557	773.250	ug/l	100
14) Allyl chloride	4.384	41	660146	147.694	ug/l	93
15) Acrylonitrile	5.061	53	379392	693.752	ug/l	99
16) Acetone	3.872	43	390697	669.485	ug/l	97
17) Carbon Disulfide	4.110	76	1114337	143.098	ug/l	100
18) Methyl Acetate	4.384	43	183151	134.637	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	855630	142.499	ug/l	98
20) Methylene Chloride	4.616	84	350664	141.893	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	362921	141.368	ug/l	93
22) Diisopropyl ether	6.024	45	1242472	141.056	ug/l	97
23) Vinyl Acetate	5.963	43	3500470	711.125	ug/l	99
24) 1,1-Dichloroethane	5.921	63	709814	142.745	ug/l	99
25) 2-Butanone	6.896	43	523049	696.197	ug/l	99
26) 2,2-Dichloropropane	6.884	77	608998	148.175	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	415289	146.869	ug/l	98
28) Bromochloromethane	7.250	49	302639	144.606	ug/l	97
29) Tetrahydrofuran	7.268	42	318185	708.605	ug/l	96
30) Chloroform	7.427	83	681143	141.851	ug/l	99
31) Cyclohexane	7.701	56	630214	138.877	ug/l	96
32) 1,1,1-Trichloroethane	7.622	97	624176	148.040	ug/l	98
36) 1,1-Dichloropropene	7.835	75	511136	148.798	ug/l	99
37) Ethyl Acetate	6.988	43	224596	140.226	ug/l	99
38) Carbon Tetrachloride	7.823	117	561195	156.470	ug/l	97
39) Methylcyclohexane	9.109	83	662542	154.113	ug/l	95
40) Benzene	8.085	78	1510257	150.024	ug/l	99

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

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC150

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 11/20/2024

Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 01:03:08 2024

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

Quant Title : SW846 8260

QLast Update : Wed Nov 20 00:48:27 2024

Response via : Initial Calibration

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

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

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

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

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

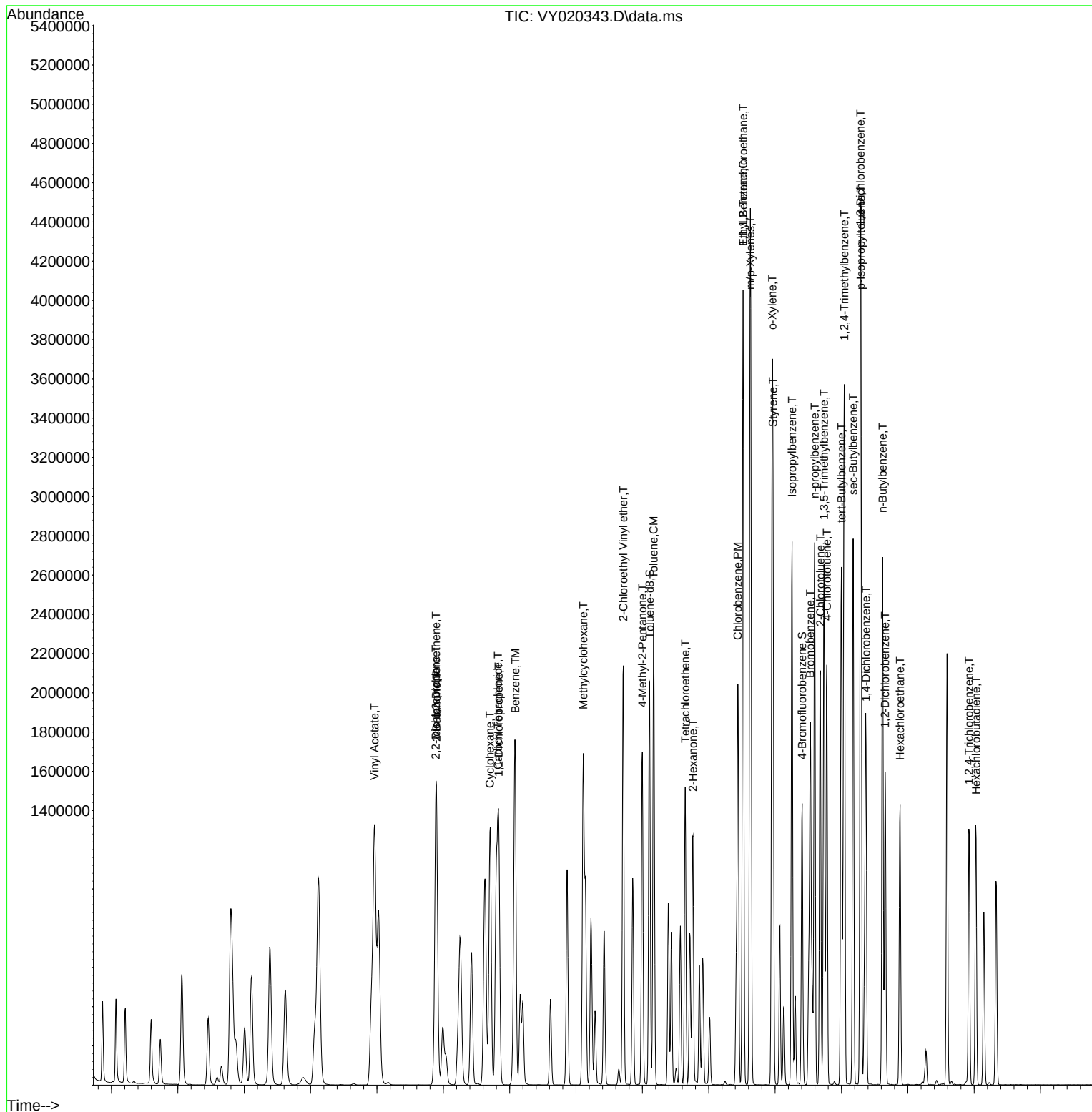
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
 Data File : VY020343.D
 Acq On : 19 Nov 2024 17:42
 Operator : SY/MD
 Sample : VSTDIC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC150

Manual Integrations APPROVED

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

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



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

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY111924

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

Manual Integrations APPROVED

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

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

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

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY111924

Manual Integrations
 APPROVED

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

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
ICVY111924

Manual Integrations
APPROVED

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

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

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

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

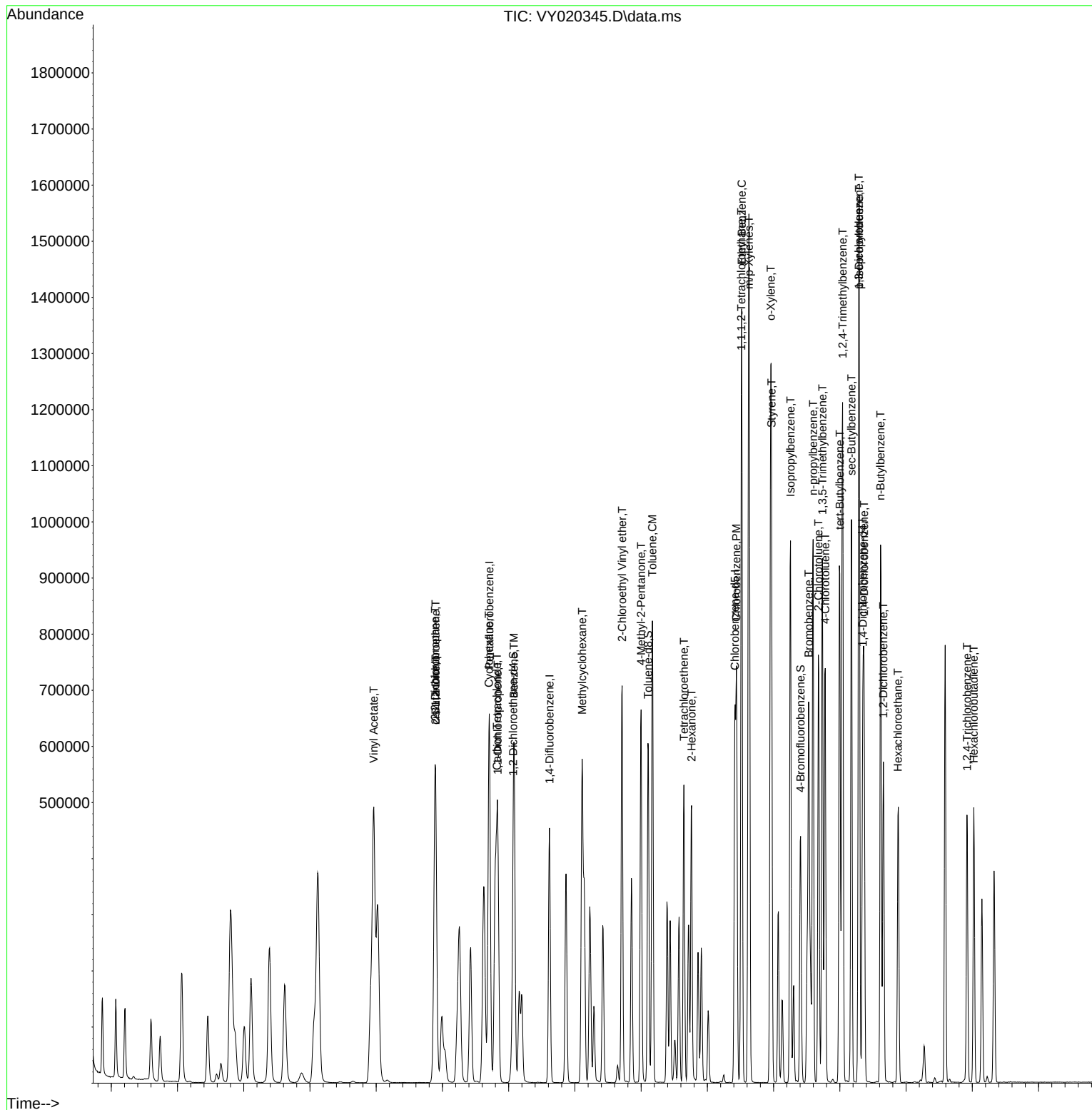
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111924\
Data File : VY020345.D
Acq On    : 19 Nov 2024  18:52
Operator  : SY/MD
Sample    : VSTDICV050
Misc      : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial  : 10   Sample Multiplier: 1
```

Instrument :
MSVOA_Y
ClientSampleId :
ICVY111924

Manual Integrations APPROVED

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

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



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

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY111924

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

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

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

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY111924

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

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
ICVY111924

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

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.773	0.795	-2.8	101	0.00

(#) = Out of Range

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

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY111924

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

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

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

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY111924

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

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1029.795	-3.0	92	0.00
50 S	Toluene-d8	50.000	42.207	15.6	66	0.00
51 T	4-Methyl-2-Pentanone	250.000	274.160	-9.7	86	0.00
52 CM	Toluene	50.000	51.107	-2.2#	91	0.00
53 T	t-1,3-Dichloropropene	50.000	51.655	-3.3	92	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.893	-5.8	95	0.00
55 T	1,1,2-Trichloroethane	50.000	50.472	-0.9	93	0.00
56 T	Ethyl methacrylate	50.000	53.587	-7.2	92	0.00
57 T	1,3-Dichloropropane	50.000	52.199	-4.4	91	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	248.935	0.4	92	0.00
59 T	2-Hexanone	250.000	274.534	-9.8	87	0.00
60 T	Dibromochloromethane	50.000	52.124	-4.2	89	0.00
61 T	1,2-Dibromoethane	50.000	50.344	-0.7	87	0.00
62 S	4-Bromofluorobenzene	50.000	43.984	12.0	72	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	86	0.00
64 T	Tetrachloroethene	50.000	49.247	1.5	92	0.00
65 PM	Chlorobenzene	50.000	49.054	1.9	82	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.168	-0.3	87	0.00
67 C	Ethyl Benzene	50.000	49.867	0.3#	86	0.00
68 T	m/p-Xylenes	100.000	101.387	-1.4	91	0.00
69 T	o-Xylene	50.000	50.951	-1.9	92	0.00
70 T	Styrene	50.000	51.321	-2.6	91	0.00
71 P	Bromoform	50.000	52.752	-5.5	93	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	95	0.00
73 T	Isopropylbenzene	50.000	49.433	1.1	92	0.00
74 T	N-amyl acetate	50.000	54.821	-9.6	97	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.321	-0.6	90	0.00
76 T	1,2,3-Trichloropropane	50.000	53.595	-7.2	93	0.00
77 T	Bromobenzene	50.000	49.588	0.8	90	0.00
78 T	n-propylbenzene	50.000	49.879	0.2	92	0.00
79 T	2-Chlorotoluene	50.000	49.257	1.5	94	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.396	1.2	94	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	51.391	-2.8	91	0.00
82 T	4-Chlorotoluene	50.000	49.114	1.8	95	0.00
83 T	tert-Butylbenzene	50.000	50.744	-1.5	94	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.562	0.9	94	0.00
85 T	sec-Butylbenzene	50.000	46.067	7.9	82	0.00
86 T	p-Isopropyltoluene	50.000	49.532	0.9	90	0.00
87 T	1,3-Dichlorobenzene	50.000	47.709	4.6	88	0.00
88 T	1,4-Dichlorobenzene	50.000	49.275	1.5	92	0.00
89 T	n-Butylbenzene	50.000	49.838	0.3	91	0.00
90 T	Hexachloroethane	50.000	48.355	3.3	84	0.00
91 T	1,2-Dichlorobenzene	50.000	50.169	-0.3	92	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.354	1.3	88	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.001	-4.0	100	0.00
94 T	Hexachlorobutadiene	50.000	52.929	-5.9	102	0.00
95 T	Naphthalene	50.000	56.950	-13.9	103	0.00

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

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY111924

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

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

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

(#) = Out of Range

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: MSVOA_D Calibration Date/Time: 11/18/2024 09:51

Lab File ID: VD080058.D Init. Calib. Date(s): 11/14/2024 11/15/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 18:02 12:18

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.408	0.410		0.49	20
Chloromethane	0.300	0.265	0.1	-11.67	20
Vinyl Chloride	0.347	0.308		-11.24	20
Bromomethane	0.404	0.322		-20.3	20
Chloroethane	0.242	0.206		-14.88	20
Trichlorofluoromethane	0.842	0.852		1.19	20
1,1,2-Trichlorotrifluoroethane	0.529	0.574		8.51	20
1,1-Dichloroethene	0.519	0.539		3.85	20
Acetone	0.115	0.136		18.26	20
Carbon Disulfide	1.689	1.742		3.14	20
Methyl tert-butyl Ether	1.049	1.138		8.48	20
Methyl Acetate	0.243	0.252		3.7	20
Methylene Chloride	0.619	0.607		-1.94	20
trans-1,2-Dichloroethene	0.577	0.612		6.07	20
1,1-Dichloroethane	0.992	1.006	0.1	1.41	20
Cyclohexane	0.840	0.852		1.43	20
2-Butanone	0.150	0.160		6.67	20
Carbon Tetrachloride	0.516	0.570		10.47	20
cis-1,2-Dichloroethene	0.663	0.682		2.87	20
Bromochloromethane	0.443	0.409		-7.68	20
Chloroform	1.073	1.115		3.91	20
1,1,1-Trichloroethane	0.906	0.953		5.19	20
Methylcyclohexane	0.555	0.647		16.58	20
Benzene	1.463	1.574		7.59	20
1,2-Dichloroethane	0.381	0.414		8.66	20
Trichloroethene	0.378	0.403		6.61	20
1,2-Dichloropropane	0.350	0.380		8.57	20
Bromodichloromethane	0.512	0.561		9.57	20
4-Methyl-2-Pentanone	0.183	0.222		21.31	20
Toluene	0.910	1.039		14.18	20
t-1,3-Dichloropropene	0.450	0.504		12	20
cis-1,3-Dichloropropene	0.536	0.597		11.38	20
1,1,2-Trichloroethane	0.272	0.299		9.93	20
2-Hexanone	0.137	0.172		25.55	20
Dibromochloromethane	0.355	0.402		13.24	20
1,2-Dibromoethane	0.256	0.292		14.06	20
Tetrachloroethene	0.367	0.401		9.26	20
Chlorobenzene	1.118	1.194	0.3	6.8	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: MSVOA_D Calibration Date/Time: 11/18/2024 09:51

Lab File ID: VD080058.D Init. Calib. Date(s): 11/14/2024 11/15/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 18:02 12:18

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.863	2.115		13.53	20
m/p-Xylenes	0.731	0.835		14.23	20
o-Xylene	0.661	0.755		14.22	20
Styrene	1.177	1.353		14.95	20
Bromoform	0.227	0.262	0.1	15.42	20
Isopropylbenzene	3.255	3.560		9.37	20
1,1,2,2-Tetrachloroethane	0.627	0.671	0.3	7.02	20
1,3-Dichlorobenzene	1.743	1.841		5.62	20
1,4-Dichlorobenzene	1.753	1.824		4.05	20
1,2-Dichlorobenzene	1.522	1.593		4.66	20
1,2-Dibromo-3-Chloropropane	0.095	0.097		2.11	20
1,2,4-Trichlorobenzene	0.943	1.118		18.56	20
1,2,3-Trichlorobenzene	0.824	0.928		12.62	20
1,2-Dichloroethane-d4	0.514	0.514		0	20
Dibromofluoromethane	0.334	0.359		7.49	20
Toluene-d8	1.259	1.382		9.77	20
4-Bromofluorobenzene	0.418	0.467		11.72	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
 Data File : VD080058.D
 Acq On : 18 Nov 2024 09:51
 Operator : RP/MD
 Sample : VSTDCCC050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 11/19/2024
 Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 04:42:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	175845	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	262205	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	246582	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	138959	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.234	65	90463	49.966	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	99.940%
35) Dibromofluoromethane	7.804	113	94082	53.913	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	107.820%
50) Toluene-d8	10.269	98	362288	55.083	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	110.160%
62) 4-Bromofluorobenzene	12.575	95	122559	56.796	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	113.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.934	85	72174	51.140	ug/l	98
3) Chloromethane	2.152	50	46527	44.830	ug/l	97
4) Vinyl Chloride	2.287	62	54184	45.731	ug/l	97
5) Bromomethane	2.693	94	56553	45.537	ug/l	97
6) Chloroethane	2.840	64	36206	42.750	ug/l	97
7) Trichlorofluoromethane	3.175	101	149797	51.474	ug/l	95
8) Diethyl Ether	3.599	74	42441	49.958	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.969	101	101018	55.567	ug/l	98
10) Methyl Iodide	4.163	142	114469	50.870	ug/l	99
11) Tert butyl alcohol	5.058	59	23131	245.505	ug/l #	83
12) 1,1-Dichloroethene	3.946	96	94809	52.033	ug/l	98
13) Acrolein	3.799	56	34993	193.560	ug/l	99
14) Allyl chloride	4.563	41	123500	47.816	ug/l	97
15) Acrylonitrile	5.258	53	97655	258.754	ug/l	99
16) Acetone	4.022	43	119781	304.921	ug/l	95
17) Carbon Disulfide	4.269	76	306403	52.223	ug/l	98
18) Methyl Acetate	4.563	43	44231	50.769	ug/l	95
19) Methyl tert-butyl Ether	5.322	73	200071	53.822	ug/l	95
20) Methylene Chloride	4.805	84	106824	50.706	ug/l	97
21) trans-1,2-Dichloroethene	5.316	96	107672	53.453	ug/l	95
22) Diisopropyl ether	6.216	45	274840	52.549	ug/l	98
23) Vinyl Acetate	6.157	43	792020	264.312	ug/l	100
24) 1,1-Dichloroethane	6.110	63	176897	50.853	ug/l	98
25) 2-Butanone	7.081	43	141021	274.715	ug/l	99
26) 2,2-Dichloropropane	7.081	77	154180	50.990	ug/l	99
27) cis-1,2-Dichloroethene	7.081	96	119911	51.873	ug/l	96
28) Bromochloromethane	7.428	49	71856	46.417	ug/l	86
29) Tetrahydrofuran	7.446	42	77873	276.941	ug/l	96
30) Chloroform	7.599	83	196141	53.520	ug/l	98
31) Cyclohexane	7.875	56	149798	50.809	ug/l	95
32) 1,1,1-Trichloroethane	7.793	97	167583	53.434	ug/l	99
36) 1,1-Dichloropropene	8.010	75	137895	57.789	ug/l	98
37) Ethyl Acetate	7.169	43	55961	54.562	ug/l	97
38) Carbon Tetrachloride	7.993	117	149546	57.362	ug/l	96
39) Methylcyclohexane	9.275	83	169555	59.683	ug/l	99
40) Benzene	8.251	78	412833	55.505	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
 Data File : VD080058.D
 Acq On : 18 Nov 2024 09:51
 Operator : RP/MD
 Sample : VSTDCCC050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Quant Time: Nov 19 04:42:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/19/2024
 Supervised By :Mahesh Dadoda 11/19/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.404	41	32188	58.153	ug/l #	88
42) 1,2-Dichloroethane	8.328	62	108671	56.456	ug/l	99
43) Isopropyl Acetate	8.363	43	104260	56.077	ug/l	98
44) Trichloroethene	9.028	130	105658	54.897	ug/l	99
45) 1,2-Dichloropropane	9.304	63	99745	55.804	ug/l	99
46) Dibromomethane	9.398	93	59252	56.992	ug/l	96
47) Bromodichloromethane	9.581	83	147223	56.575	ug/l	97
48) Methyl methacrylate	9.381	41	50991	57.448	ug/l	95
49) 1,4-Dioxane	9.387	88	12518	1312.552	ug/l	89
51) 4-Methyl-2-Pentanone	10.157	43	290646	308.122	ug/l	98
52) Toluene	10.334	92	272513	58.959	ug/l	98
53) t-1,3-Dichloropropene	10.551	75	132147	56.966	ug/l	95
54) cis-1,3-Dichloropropene	10.016	75	156470	56.974	ug/l	98
55) 1,1,2-Trichloroethane	10.734	97	78335	56.953	ug/l	98
56) Ethyl methacrylate	10.598	69	97292	60.830	ug/l	95
57) 1,3-Dichloropropane	10.881	76	129067	57.683	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.869	63	182651	301.942	ug/l	93
59) 2-Hexanone	10.922	43	225753	325.372	ug/l	97
60) Dibromochloromethane	11.069	129	105481	59.580	ug/l	97
61) 1,2-Dibromoethane	11.175	107	76497	58.988	ug/l	98
64) Tetrachloroethene	10.810	164	98994	56.375	ug/l	96
65) Chlorobenzene	11.610	112	294337	54.721	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.681	131	105301	56.240	ug/l	96
67) Ethyl Benzene	11.681	91	521593	57.792	ug/l	97
68) m/p-Xylenes	11.792	106	411810	116.753	ug/l	100
69) o-Xylene	12.122	106	186146	58.710	ug/l	95
70) Styrene	12.134	104	333504	58.932	ug/l	99
71) Bromoform	12.298	173	64595	58.512	ug/l #	99
73) Isopropylbenzene	12.422	105	494625	55.196	ug/l	99
74) N-amyl acetate	12.234	43	107015	54.198	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.675	83	93217	54.127	ug/l	96
76) 1,2,3-Trichloropropane	12.722	75	62314m	50.784	ug/l	
77) Bromobenzene	12.698	156	127393	54.702	ug/l	95
78) n-propylbenzene	12.763	91	622903	56.246	ug/l	100
79) 2-Chlorotoluene	12.845	91	350353	53.946	ug/l	99
80) 1,3,5-Trimethylbenzene	12.904	105	424889	56.023	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.469	75	33885	56.519	ug/l	97
82) 4-Chlorotoluene	12.945	91	379418	54.649	ug/l	98
83) tert-Butylbenzene	13.163	119	368273	56.067	ug/l	96
84) 1,2,4-Trimethylbenzene	13.210	105	433821	56.940	ug/l	100
85) sec-Butylbenzene	13.345	105	549366	56.582	ug/l	99
86) p-Isopropyltoluene	13.457	119	473074	57.644	ug/l	99
87) 1,3-Dichlorobenzene	13.457	146	255878	54.259	ug/l	99
88) 1,4-Dichlorobenzene	13.539	146	253429	53.508	ug/l	98
89) n-Butylbenzene	13.786	91	440006	56.989	ug/l	99
90) Hexachloroethane	14.051	117	94669	53.810	ug/l	92
91) 1,2-Dichlorobenzene	13.828	146	221390	53.838	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.445	75	13498	51.831	ug/l	80
93) 1,2,4-Trichlorobenzene	15.098	180	155321	60.235	ug/l	98
94) Hexachlorobutadiene	15.204	225	86408	62.001	ug/l	98
95) Naphthalene	15.333	128	264830	60.465	ug/l	97
96) 1,2,3-Trichlorobenzene	15.522	180	128996	56.965	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080058.D
Acq On : 18 Nov 2024 09:51
Operator : RP/MD
Sample : VSTDCCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 04:42:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

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

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

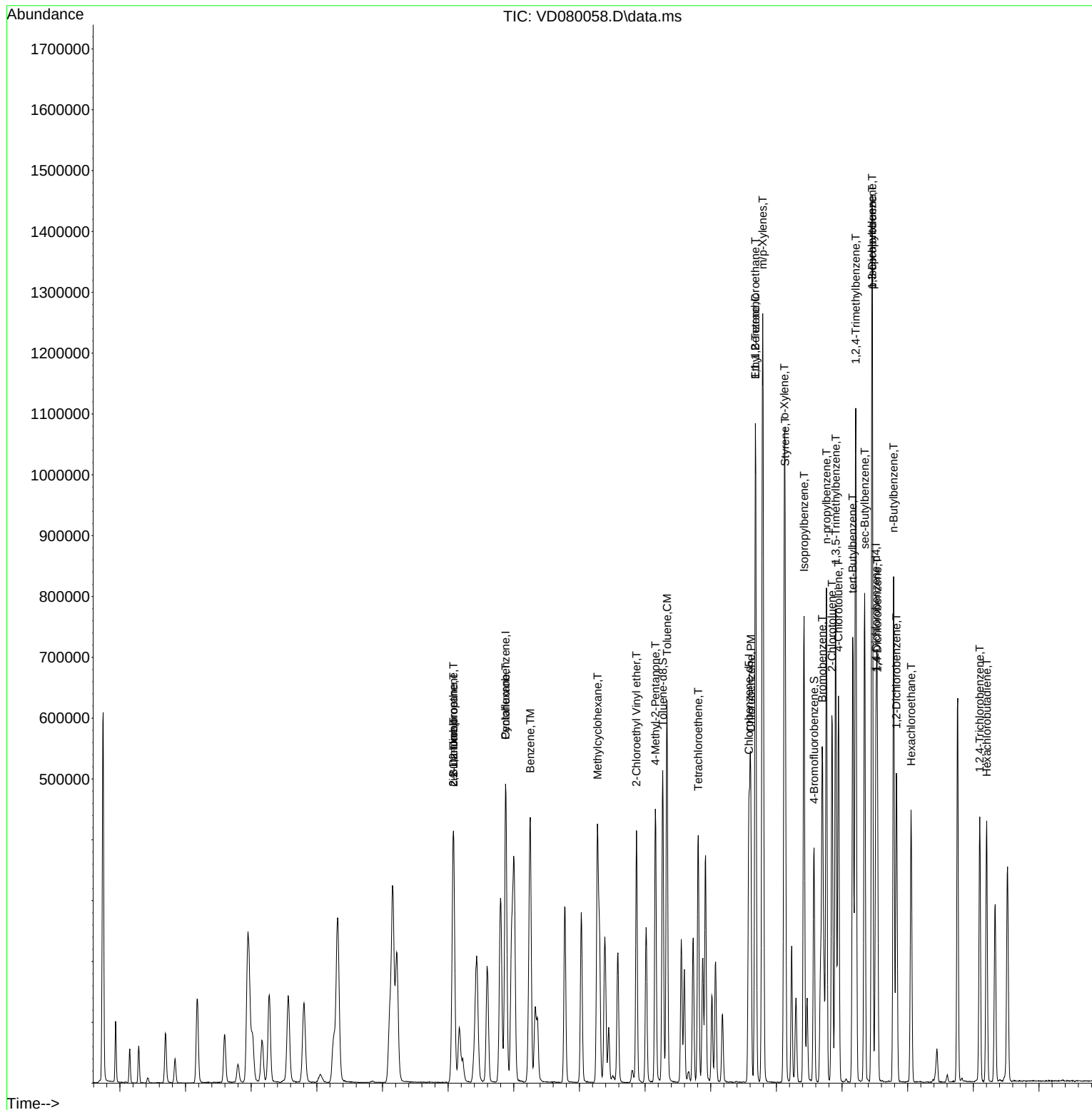
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080058.D
Acq On : 18 Nov 2024 09:51
Operator : RP/MD
Sample : VSTDCCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 04:42:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
 Data File : VD080058.D
 Acq On : 18 Nov 2024 09:51
 Operator : RP/MD
 Sample : VSTDCCC050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 19 04:42:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 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	86	0.00
2 T	Dichlorodifluoromethane	0.401	0.410	-2.2	89	0.00
3 P	Chloromethane	0.295	0.265	10.2	83	0.00
4 C	Vinyl Chloride	0.337	0.308	8.6#	82	0.00
5 T	Bromomethane	0.374	0.322	13.9	91	0.00
6 T	Chloroethane	0.241	0.206	14.5	85	0.00
7 T	Trichlorofluoromethane	0.827	0.852	-3.0	96	0.00
8 T	Diethyl Ether	0.242	0.241	0.4	92	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.517	0.574	-11.0	103	0.00
10 T	Methyl Iodide	0.640	0.651	-1.7	80	0.00
11 T	Tert butyl alcohol	0.027	0.026	3.7	99	0.00
12 CM	1,1-Dichloroethene	0.518	0.539	-4.1#	95	0.00
13 T	Acrolein	0.051	0.040	21.6	71	0.00
14 T	Allyl chloride	0.734	0.702	4.4	95	0.00
15 T	Acrylonitrile	0.107	0.111	-3.7	95	0.00
16 T	Acetone	0.112	0.136	-21.4	111	0.00
17 T	Carbon Disulfide	1.668	1.742	-4.4	97	0.00
18 T	Methyl Acetate	0.248	0.252	-1.6	101	0.00
19 T	Methyl tert-butyl Ether	1.057	1.138	-7.7	90	0.00
20 T	Methylene Chloride	0.599	0.607	-1.3	94	0.00
21 T	trans-1,2-Dichloroethene	0.573	0.612	-6.8	91	0.00
22 T	Diisopropyl ether	1.487	1.563	-5.1	87	0.00
23 T	Vinyl Acetate	0.852	0.901	-5.8	85	0.00
24 P	1,1-Dichloroethane	0.989	1.006	-1.7	89	0.00
25 T	2-Butanone	0.146	0.160	-9.6	90	0.00
26 T	2,2-Dichloropropane	0.860	0.877	-2.0	90	0.00
27 T	cis-1,2-Dichloroethene	0.657	0.682	-3.8	90	0.00
28 T	Bromochloromethane	0.440	0.409	7.0	87	0.00
29 T	Tetrahydrofuran	0.080	0.089	-11.2	90	0.00
30 C	Chloroform	1.042	1.115	-7.0#	94	0.00
31 T	Cyclohexane	0.838	0.852	-1.7	92	0.00
32 T	1,1,1-Trichloroethane	0.892	0.953	-6.8	94	0.00
33 S	1,2-Dichloroethane-d4	0.515	0.514	0.2	84	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	82	0.00
35 S	Dibromofluoromethane	0.333	0.359	-7.8	87	0.00
36 T	1,1-Dichloropropene	0.455	0.526	-15.6	95	0.00
37 T	Ethyl Acetate	0.196	0.213	-8.7	90	0.00
38 T	Carbon Tetrachloride	0.497	0.570	-14.7	95	0.00
39 T	Methylcyclohexane	0.542	0.647	-19.4	95	0.00
40 TM	Benzene	1.418	1.574	-11.0	90	0.00
41 T	Methacrylonitrile	0.106	0.123	-16.0	97	0.00
42 TM	1,2-Dichloroethane	0.367	0.414	-12.8	92	0.00
43 T	Isopropyl Acetate	0.355	0.398	-12.1	89	0.00
44 TM	Trichloroethene	0.367	0.403	-9.8	91	0.00
45 C	1,2-Dichloropropane	0.341	0.380	-11.4#	88	0.00
46 T	Dibromomethane	0.198	0.226	-14.1	95	0.00
47 T	Bromodichloromethane	0.496	0.561	-13.1	92	0.00
48 T	Methyl methacrylate	0.169	0.194	-14.8	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
 Data File : VD080058.D
 Acq On : 18 Nov 2024 09:51
 Operator : RP/MD
 Sample : VSTDCCC050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 19 04:42:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 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	94	0.00
50 S	Toluene-d8	1.254	1.382	-10.2	85	0.00
51 T	4-Methyl-2-Pentanone	0.180	0.222	-23.3	94	0.00
52 CM	Toluene	0.881	1.039	-17.9#	93	0.00
53 T	t-1,3-Dichloropropene	0.442	0.504	-14.0	90	0.00
54 T	cis-1,3-Dichloropropene	0.524	0.597	-13.9	90	0.00
55 T	1,1,2-Trichloroethane	0.262	0.299	-14.1	92	0.00
56 T	Ethyl methacrylate	0.305	0.371	-21.6	92	0.00
57 T	1,3-Dichloropropane	0.427	0.492	-15.2	92	0.00
58 T	2-Chloroethyl Vinyl ether	0.115	0.139	-20.9	93	0.00
59 T	2-Hexanone	0.132	0.172	-30.3#	96	0.00
60 T	Dibromochloromethane	0.338	0.402	-18.9	95	0.00
61 T	1,2-Dibromoethane	0.247	0.292	-18.2	95	0.00
62 S	4-Bromofluorobenzene	0.411	0.467	-13.6	88	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00
64 T	Tetrachloroethene	0.356	0.401	-12.6	97	0.00
65 PM	Chlorobenzene	1.091	1.194	-9.4	92	0.00
66 T	1,1,1,2-Tetrachloroethane	0.380	0.427	-12.4	93	0.00
67 C	Ethyl Benzene	1.830	2.115	-15.6#	94	0.00
68 T	m/p-Xylenes	0.715	0.835	-16.8	95	0.00
69 T	o-Xylene	0.643	0.755	-17.4	93	0.00
70 T	Styrene	1.148	1.353	-17.9	92	0.00
71 P	Bromoform	0.224	0.262	-17.0	97	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
73 T	Isopropylbenzene	3.224	3.560	-10.4	97	0.00
74 T	N-amyl acetate	0.710	0.770	-8.5	91	0.00
75 P	1,1,2,2-Tetrachloroethane	0.620	0.671	-8.2	98	0.00
76 T	1,2,3-Trichloropropane	0.442	0.448	-1.4	97	0.00
77 T	Bromobenzene	0.838	0.917	-9.4	98	0.00
78 T	n-propylbenzene	3.985	4.483	-12.5	98	0.00
79 T	2-Chlorotoluene	2.337	2.521	-7.9	95	0.00
80 T	1,3,5-Trimethylbenzene	2.729	3.058	-12.1	97	0.00
81 T	trans-1,4-Dichloro-2-butene	0.216	0.244	-13.0	98	0.00
82 T	4-Chlorotoluene	2.498	2.730	-9.3	97	0.00
83 T	tert-Butylbenzene	2.363	2.650	-12.1	98	0.00
84 T	1,2,4-Trimethylbenzene	2.741	3.122	-13.9	97	0.00
85 T	sec-Butylbenzene	3.494	3.953	-13.1	99	0.00
86 T	p-Isopropyltoluene	2.953	3.404	-15.3	100	0.00
87 T	1,3-Dichlorobenzene	1.697	1.841	-8.5	97	0.00
88 T	1,4-Dichlorobenzene	1.704	1.824	-7.0	98	0.00
89 T	n-Butylbenzene	2.778	3.166	-14.0	100	0.00
90 T	Hexachloroethane	0.633	0.681	-7.6	100	0.00
91 T	1,2-Dichlorobenzene	1.480	1.593	-7.6	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.094	0.097	-3.2	94	0.00
93 T	1,2,4-Trichlorobenzene	0.928	1.118	-20.5	108	0.00
94 T	Hexachlorobutadiene	0.501	0.622	-24.2	112	0.00
95 T	Naphthalene	1.576	1.906	-20.9	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080058.D
Acq On : 18 Nov 2024 09:51
Operator : RP/MD
Sample : VSTDCCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
LabSampleId :
VSTDCCC050

Quant Time: Nov 19 04:42:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 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	0.815	0.928	-13.9	100	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
 Data File : VD080058.D
 Acq On : 18 Nov 2024 09:51
 Operator : RP/MD
 Sample : VSTDCCC050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 19 04:42:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 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	86	0.00
2 T	Dichlorodifluoromethane	50.000	51.140	-2.3	89	0.00
3 P	Chloromethane	50.000	44.830	10.3	83	0.00
4 C	Vinyl Chloride	50.000	45.731	8.5#	82	0.00
5 T	Bromomethane	50.000	45.537	8.9	91	0.00
6 T	Chloroethane	50.000	42.750	14.5	85	0.00
7 T	Trichlorofluoromethane	50.000	51.474	-2.9	96	0.00
8 T	Diethyl Ether	50.000	49.958	0.1	92	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	55.567	-11.1	103	0.00
10 T	Methyl Iodide	50.000	50.870	-1.7	80	0.00
11 T	Tert butyl alcohol	250.000	245.505	1.8	99	0.00
12 CM	1,1-Dichloroethene	50.000	52.033	-4.1#	95	0.00
13 T	Acrolein	250.000	193.560	22.6	71	0.00
14 T	Allyl chloride	50.000	47.816	4.4	95	0.00
15 T	Acrylonitrile	250.000	258.754	-3.5	95	0.00
16 T	Acetone	250.000	304.921	-22.0	111	0.00
17 T	Carbon Disulfide	50.000	52.223	-4.4	97	0.00
18 T	Methyl Acetate	50.000	50.769	-1.5	101	0.00
19 T	Methyl tert-butyl Ether	50.000	53.822	-7.6	90	0.00
20 T	Methylene Chloride	50.000	50.706	-1.4	94	0.00
21 T	trans-1,2-Dichloroethene	50.000	53.453	-6.9	91	0.00
22 T	Diisopropyl ether	50.000	52.549	-5.1	87	0.00
23 T	Vinyl Acetate	250.000	264.312	-5.7	85	0.00
24 P	1,1-Dichloroethane	50.000	50.853	-1.7	89	0.00
25 T	2-Butanone	250.000	274.715	-9.9	90	0.00
26 T	2,2-Dichloropropane	50.000	50.990	-2.0	90	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.873	-3.7	90	0.00
28 T	Bromochloromethane	50.000	46.417	7.2	87	0.00
29 T	Tetrahydrofuran	250.000	276.941	-10.8	90	0.00
30 C	Chloroform	50.000	53.520	-7.0#	94	0.00
31 T	Cyclohexane	50.000	50.809	-1.6	92	0.00
32 T	1,1,1-Trichloroethane	50.000	53.434	-6.9	94	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.966	0.1	84	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	82	0.00
35 S	Dibromofluoromethane	50.000	53.913	-7.8	87	0.00
36 T	1,1-Dichloropropene	50.000	57.789	-15.6	95	0.00
37 T	Ethyl Acetate	50.000	54.562	-9.1	90	0.00
38 T	Carbon Tetrachloride	50.000	57.362	-14.7	95	0.00
39 T	Methylcyclohexane	50.000	59.683	-19.4	95	0.00
40 TM	Benzene	50.000	55.505	-11.0	90	0.00
41 T	Methacrylonitrile	50.000	58.153	-16.3	97	0.00
42 TM	1,2-Dichloroethane	50.000	56.456	-12.9	92	0.00
43 T	Isopropyl Acetate	50.000	56.077	-12.2	89	0.00
44 TM	Trichloroethene	50.000	54.897	-9.8	91	0.00
45 C	1,2-Dichloropropane	50.000	55.804	-11.6#	88	0.00
46 T	Dibromomethane	50.000	56.992	-14.0	95	0.00
47 T	Bromodichloromethane	50.000	56.575	-13.2	92	0.00
48 T	Methyl methacrylate	50.000	57.448	-14.9	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
 Data File : VD080058.D
 Acq On : 18 Nov 2024 09:51
 Operator : RP/MD
 Sample : VSTDCCC050
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 19 04:42:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 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	1312.552	-31.3#	94	0.00
50 S	Toluene-d8	50.000	55.083	-10.2	85	0.00
51 T	4-Methyl-2-Pentanone	250.000	308.122	-23.2	94	0.00
52 CM	Toluene	50.000	58.959	-17.9#	93	0.00
53 T	t-1,3-Dichloropropene	50.000	56.966	-13.9	90	0.00
54 T	cis-1,3-Dichloropropene	50.000	56.974	-13.9	90	0.00
55 T	1,1,2-Trichloroethane	50.000	56.953	-13.9	92	0.00
56 T	Ethyl methacrylate	50.000	60.830	-21.7	92	0.00
57 T	1,3-Dichloropropane	50.000	57.683	-15.4	92	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	301.942	-20.8	93	0.00
59 T	2-Hexanone	250.000	325.372	-30.1#	96	0.00
60 T	Dibromochloromethane	50.000	59.580	-19.2	95	0.00
61 T	1,2-Dibromoethane	50.000	58.988	-18.0	95	0.00
62 S	4-Bromofluorobenzene	50.000	56.796	-13.6	88	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	83	0.00
64 T	Tetrachloroethene	50.000	56.375	-12.8	97	0.00
65 PM	Chlorobenzene	50.000	54.721	-9.4	92	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	56.240	-12.5	93	0.00
67 C	Ethyl Benzene	50.000	57.792	-15.6#	94	0.00
68 T	m/p-Xylenes	100.000	116.753	-16.8	95	0.00
69 T	o-Xylene	50.000	58.710	-17.4	93	0.00
70 T	Styrene	50.000	58.932	-17.9	92	0.00
71 P	Bromoform	50.000	58.512	-17.0	97	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	89	0.00
73 T	Isopropylbenzene	50.000	55.196	-10.4	97	0.00
74 T	N-amyl acetate	50.000	54.198	-8.4	91	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	54.127	-8.3	98	0.00
76 T	1,2,3-Trichloropropane	50.000	50.784	-1.6	97	0.00
77 T	Bromobenzene	50.000	54.702	-9.4	98	0.00
78 T	n-propylbenzene	50.000	56.246	-12.5	98	0.00
79 T	2-Chlorotoluene	50.000	53.946	-7.9	95	0.00
80 T	1,3,5-Trimethylbenzene	50.000	56.023	-12.0	97	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	56.519	-13.0	98	0.00
82 T	4-Chlorotoluene	50.000	54.649	-9.3	97	0.00
83 T	tert-Butylbenzene	50.000	56.067	-12.1	98	0.00
84 T	1,2,4-Trimethylbenzene	50.000	56.940	-13.9	97	0.00
85 T	sec-Butylbenzene	50.000	56.582	-13.2	99	0.00
86 T	p-Isopropyltoluene	50.000	57.644	-15.3	100	0.00
87 T	1,3-Dichlorobenzene	50.000	54.259	-8.5	97	0.00
88 T	1,4-Dichlorobenzene	50.000	53.508	-7.0	98	0.00
89 T	n-Butylbenzene	50.000	56.989	-14.0	100	0.00
90 T	Hexachloroethane	50.000	53.810	-7.6	100	0.00
91 T	1,2-Dichlorobenzene	50.000	53.838	-7.7	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.831	-3.7	94	0.00
93 T	1,2,4-Trichlorobenzene	50.000	60.235	-20.5	108	0.00
94 T	Hexachlorobutadiene	50.000	62.001	-24.0	112	0.00
95 T	Naphthalene	50.000	60.465	-20.9	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080058.D
Acq On : 18 Nov 2024 09:51
Operator : RP/MD
Sample : VSTDCCC050
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
LabSampleId :
VSTDCCC050

Quant Time: Nov 19 04:42:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 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	56.965	-13.9	100	0.00

(#) = Out of Range

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: MSVOA_Y Calibration Date/Time: 11/20/2024 09:34

Lab File ID: VY020347.D Init. Calib. Date(s): 11/19/2024 11/19/2024

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

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.485	0.550		13.4	20
Chloromethane	0.735	0.591	0.1	-19.59	20
Vinyl Chloride	0.666	0.589		-11.56	20
Bromomethane	0.333	0.311		-6.61	20
Chloroethane	0.388	0.354		-8.76	20
Trichlorofluoromethane	0.925	0.956		3.35	20
1,1,2-Trichlorotrifluoroethane	0.551	0.547		-0.73	20
1,1-Dichloroethene	0.545	0.537		-1.47	20
Acetone	0.138	0.155		12.32	20
Carbon Disulfide	1.838	1.781		-3.1	20
Methyl tert-butyl Ether	1.417	1.362		-3.88	20
Methyl Acetate	0.321	0.302		-5.92	20
Methylene Chloride	0.583	0.553		-5.15	20
trans-1,2-Dichloroethene	0.606	0.587		-3.13	20
1,1-Dichloroethane	1.173	1.127	0.1	-3.92	20
Cyclohexane	1.071	1.061		-1.03	20
2-Butanone	0.177	0.192		8.48	20
Carbon Tetrachloride	0.511	0.567		10.96	20
cis-1,2-Dichloroethene	0.667	0.661		-0.9	20
Bromochloromethane	0.494	0.453		-8.3	20
Chloroform	1.133	1.085		-4.24	20
1,1,1-Trichloroethane	0.995	1.011		1.61	20
Methylcyclohexane	0.613	0.670		9.3	20
Benzene	1.435	1.470		2.44	20
1,2-Dichloroethane	0.387	0.400		3.36	20
Trichloroethene	0.340	0.345		1.47	20
1,2-Dichloropropane	0.342	0.347		1.46	20
Bromodichloromethane	0.484	0.494		2.07	20
4-Methyl-2-Pentanone	0.221	0.229		3.62	20
Toluene	0.877	0.892		1.71	20
t-1,3-Dichloropropene	0.458	0.466		1.75	20
cis-1,3-Dichloropropene	0.524	0.550		4.96	20
1,1,2-Trichloroethane	0.233	0.225		-3.43	20
2-Hexanone	0.157	0.176		12.1	20
Dibromochloromethane	0.300	0.305		1.67	20
1,2-Dibromoethane	0.216	0.209		-3.24	20
Tetrachloroethene	0.360	0.363		0.83	20
Chlorobenzene	1.115	1.114	0.3	-0.09	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: MSVOA_Y Calibration Date/Time: 11/20/2024 09:34

Lab File ID: VY020347.D Init. Calib. Date(s): 11/19/2024 11/19/2024

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

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.057	2.117		2.92	20
m/p-Xylenes	0.741	0.770		3.91	20
o-Xylene	0.703	0.726		3.27	20
Styrene	1.167	1.218		4.37	20
Bromoform	0.194	0.200	0.1	3.09	20
Isopropylbenzene	4.236	4.367		3.09	20
1,1,2,2-Tetrachloroethane	0.685	0.666	0.3	-2.77	20
1,3-Dichlorobenzene	1.794	1.743		-2.84	20
1,4-Dichlorobenzene	1.714	1.708		-0.35	20
1,2-Dichlorobenzene	1.495	1.493		-0.13	20
1,2-Dibromo-3-Chloropropane	0.112	0.109		-2.68	20
1,2,4-Trichlorobenzene	0.904	0.954		5.53	20
1,2,3-Trichlorobenzene	0.773	0.794		2.72	20
1,2-Dichloroethane-d4	0.574	0.565		-1.57	20
Dibromofluoromethane	0.321	0.306		-4.67	20
Toluene-d8	1.263	1.246		-1.35	20
4-Bromofluorobenzene	0.406	0.409		0.74	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\VY112024\
 Data File : VY020347.D
 Acq On : 20 Nov 2024 09:34
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/21/2024
 Supervised By :Semsettin Yesilyurt 11/21/2024

Quant Time: Nov 21 00:41:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	225214	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	368816	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	305686	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	139421	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	127232	49.173	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	98.340%
35) Dibromofluoromethane	7.640	113	112981	47.773	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	95.540%
50) Toluene-d8	10.109	98	459693	49.344	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.680%
62) 4-Bromofluorobenzene	12.407	95	150728	50.330	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	100.660%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.873	85	123842	56.651	ug/l	99
3) Chloromethane	2.074	50	133060	46.102	ug/l	97
4) Vinyl Chloride	2.208	62	132743	44.262	ug/l	100
5) Bromomethane	2.604	94	70092	46.797	ug/l	94
6) Chloroethane	2.745	64	79628	45.515	ug/l	100
7) Trichlorofluoromethane	3.068	101	215305	51.662	ug/l	100
8) Diethyl Ether	3.464	74	64095	48.744	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.824	101	123082	49.591	ug/l	100
10) Methyl Iodide	4.013	142	159702	48.038	ug/l	95
11) Tert butyl alcohol	4.878	59	40473	210.807	ug/l	98
12) 1,1-Dichloroethene	3.799	96	120837	49.185	ug/l	98
13) Acrolein	3.665	56	40645	253.685	ug/l	97
14) Allyl chloride	4.391	41	230831	48.587	ug/l	94
15) Acrylonitrile	5.067	53	140212	241.217	ug/l	100
16) Acetone	3.878	43	174248	280.915	ug/l	96
17) Carbon Disulfide	4.116	76	401178	48.469	ug/l	99
18) Methyl Acetate	4.391	43	67940	46.988	ug/l	98
19) Methyl tert-butyl Ether	5.128	73	306676	48.052	ug/l	100
20) Methylene Chloride	4.622	84	124584	47.429	ug/l	95
21) trans-1,2-Dichloroethene	5.122	96	132259	48.470	ug/l	94
22) Diisopropyl ether	6.024	45	438804	46.869	ug/l	99
23) Vinyl Acetate	5.970	43	1264142	241.614	ug/l	99
24) 1,1-Dichloroethane	5.927	63	253827	48.024	ug/l	99
25) 2-Butanone	6.902	43	215679	270.087	ug/l	100
26) 2,2-Dichloropropane	6.890	77	224188	51.319	ug/l	98
27) cis-1,2-Dichloroethene	6.896	96	148899	49.542	ug/l	99
28) Bromochloromethane	7.250	49	101919	45.817	ug/l	96
29) Tetrahydrofuran	7.262	42	120244	251.939	ug/l	97
30) Chloroform	7.427	83	244256	47.857	ug/l	99
31) Cyclohexane	7.707	56	238839	49.517	ug/l	98
32) 1,1,1-Trichloroethane	7.622	97	227690	50.807	ug/l	99
36) 1,1-Dichloropropene	7.841	75	189435	52.444	ug/l	99
37) Ethyl Acetate	6.988	43	85978	51.960	ug/l	99
38) Carbon Tetrachloride	7.823	117	209178	55.464	ug/l	95
39) Methylcyclohexane	9.115	83	247045	54.648	ug/l	98
40) Benzene	8.085	78	542044	51.206	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
 Data File : VY020347.D
 Acq On : 20 Nov 2024 09:34
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/21/2024
 Supervised By :Semsettin Yesilyurt 11/21/2024

Quant Time: Nov 21 00:41:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	44570	47.339	ug/l	97
42) 1,2-Dichloroethane	8.164	62	147581	51.651	ug/l	98
43) Isopropyl Acetate	8.201	43	167977	52.201	ug/l	99
44) Trichloroethene	8.865	130	127292	50.753	ug/l	99
45) 1,2-Dichloropropane	9.146	63	127916	50.648	ug/l	98
46) Dibromomethane	9.237	93	63867	49.338	ug/l	99
47) Bromodichloromethane	9.426	83	182364	51.033	ug/l	97
48) Methyl methacrylate	9.225	41	80458	52.297	ug/l	96
49) 1,4-Dioxane	9.231	88	13948	1047.335	ug/l #	91
51) 4-Methyl-2-Pentanone	9.999	43	422422	258.674	ug/l	100
52) Toluene	10.176	92	329120	50.868	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	171835	50.851	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	202841	52.437	ug/l	98
55) 1,1,2-Trichloroethane	10.579	97	83003	48.306	ug/l	97
56) Ethyl methacrylate	10.444	69	131486	50.954	ug/l	98
57) 1,3-Dichloropropane	10.719	76	153767	49.795	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	299771	244.993	ug/l	100
59) 2-Hexanone	10.761	43	325260	281.280	ug/l	100
60) Dibromochloromethane	10.914	129	112637	50.857	ug/l	99
61) 1,2-Dibromoethane	11.017	107	77227	48.502	ug/l	100
64) Tetrachloroethene	10.652	164	111013	50.380	ug/l	98
65) Chlorobenzene	11.444	112	340543	49.964	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.517	131	115801	50.860	ug/l	98
67) Ethyl Benzene	11.523	91	647145	51.467	ug/l	100
68) m/p-Xylenes	11.633	106	470841	103.957	ug/l	97
69) o-Xylene	11.956	106	221785	51.628	ug/l	98
70) Styrene	11.975	104	372408	52.177	ug/l	98
71) Bromoform	12.133	173	61199	51.574	ug/l #	100
73) Isopropylbenzene	12.255	105	608837	51.550	ug/l	100
74) N-ethyl acetate	12.072	43	151841	53.200	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.511	83	92848	48.642	ug/l	98
76) 1,2,3-Trichloropropane	12.560	75	63851m	48.590	ug/l	
77) Bromobenzene	12.535	156	123012	49.713	ug/l	97
78) n-propylbenzene	12.596	91	738216	52.082	ug/l	100
79) 2-Chlorotoluene	12.682	91	413107	50.690	ug/l	98
80) 1,3,5-Trimethylbenzene	12.743	105	491310	51.473	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.310	75	33894	50.540	ug/l	98
82) 4-Chlorotoluene	12.779	91	421177	50.075	ug/l	97
83) tert-Butylbenzene	12.999	119	447082	53.077	ug/l	98
84) 1,2,4-Trimethylbenzene	13.048	105	480451	50.771	ug/l	99
85) sec-Butylbenzene	13.182	105	648374	48.826	ug/l	100
86) p-Isopropyltoluene	13.298	119	533982	52.008	ug/l	99
87) 1,3-Dichlorobenzene	13.291	146	242976	48.563	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	238102	49.808	ug/l	99
89) n-Butylbenzene	13.621	91	518610	52.746	ug/l	99
90) Hexachloroethane	13.883	117	99668	50.295	ug/l	98
91) 1,2-Dichlorobenzene	13.663	146	208100	49.921	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	15217	48.583	ug/l	96
93) 1,2,4-Trichlorobenzene	14.925	180	133003	52.769	ug/l	99
94) Hexachlorobutadiene	15.029	225	87110	56.619	ug/l	99
95) Naphthalene	15.151	128	237543	54.723	ug/l	100
96) 1,2,3-Trichlorobenzene	15.334	180	110769	51.399	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020347.D
Acq On : 20 Nov 2024 09:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/21/2024
Supervised By :Semsettin Yesilyurt 11/21/2024

Quant Time: Nov 21 00:41:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

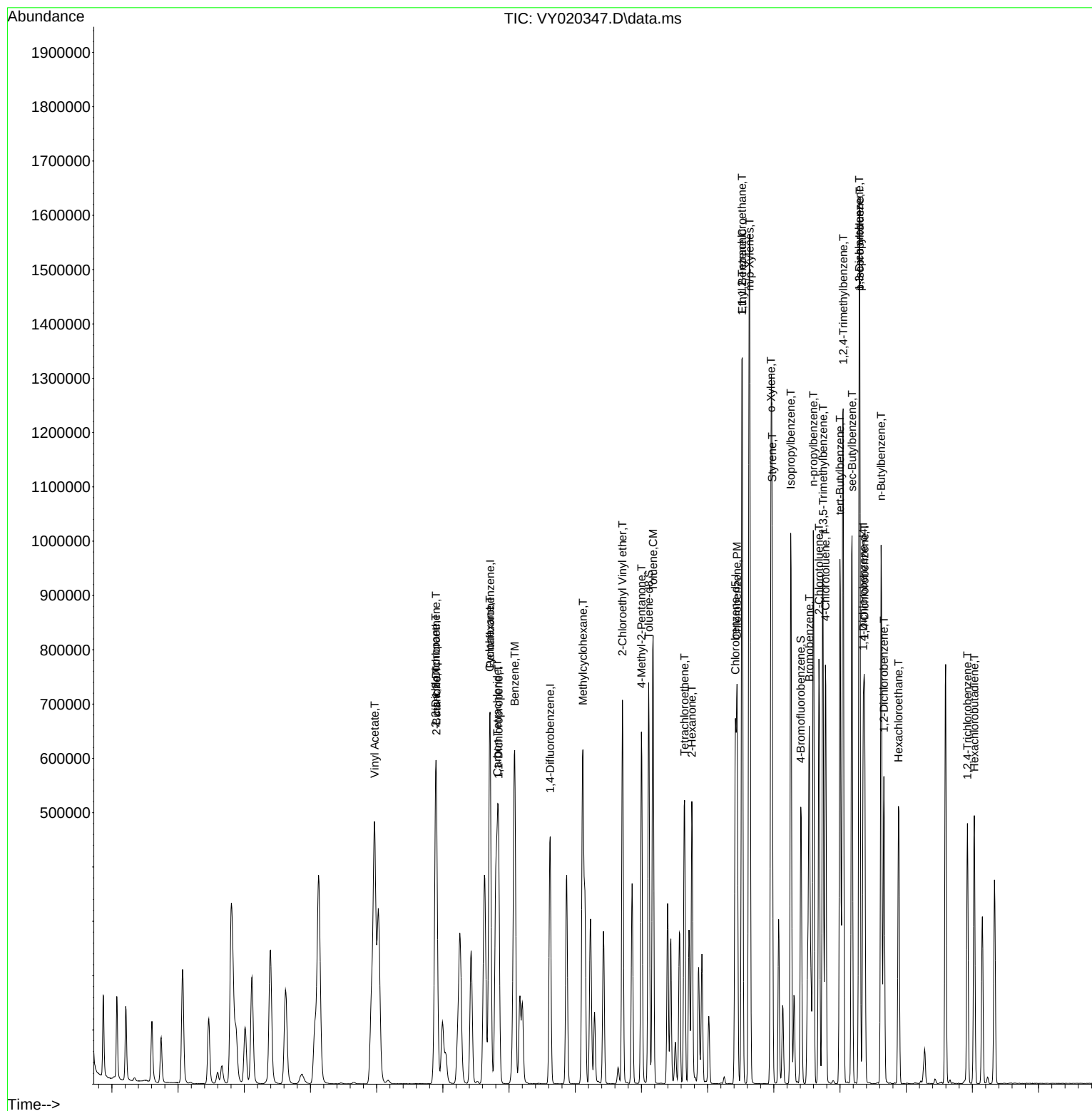
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/21/2024
Supervised By :Semsettin Yesilyurt 11/21/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
 Data File : VY020347.D
 Acq On : 20 Nov 2024 09:34
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 21 00:41:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	99	0.00
2 T	Dichlorodifluoromethane	0.485	0.550	-13.4	120	0.00
3 P	Chloromethane	0.735	0.591	19.6	86	0.00
4 C	Vinyl Chloride	0.666	0.589	11.6#	94	0.00
5 T	Bromomethane	0.333	0.311	6.6	98	0.00
6 T	Chloroethane	0.388	0.354	8.8	95	0.00
7 T	Trichlorofluoromethane	0.925	0.956	-3.4	102	0.00
8 T	Diethyl Ether	0.292	0.285	2.4	92	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.551	0.547	0.7	92	0.00
10 T	Methyl Iodide	0.738	0.709	3.9	85	0.00
11 T	Tert butyl alcohol	0.044	0.036	18.2	99	0.00
12 CM	1,1-Dichloroethene	0.545	0.537	1.5#	91	0.00
13 T	Acrolein	0.036	0.036	0.0	99	0.00
14 T	Allyl chloride	1.055	1.025	2.8	107	0.00
15 T	Acrylonitrile	0.129	0.125	3.1	100	0.00
16 T	Acetone	0.138	0.155	-12.3	96	0.00
17 T	Carbon Disulfide	1.838	1.781	3.1	85	0.00
18 T	Methyl Acetate	0.321	0.302	5.9	99	0.00
19 T	Methyl tert-butyl Ether	1.417	1.362	3.9	96	0.01
20 T	Methylene Chloride	0.583	0.553	5.1	96	0.00
21 T	trans-1,2-Dichloroethene	0.606	0.587	3.1	97	0.00
22 T	Diisopropyl ether	2.079	1.948	6.3	96	0.00
23 T	Vinyl Acetate	1.162	1.123	3.4	97	0.00
24 P	1,1-Dichloroethane	1.173	1.127	3.9	98	0.00
25 T	2-Butanone	0.177	0.192	-8.5	106	0.00
26 T	2,2-Dichloropropane	0.970	0.995	-2.6	103	0.00
27 T	cis-1,2-Dichloroethene	0.667	0.661	0.9	95	0.00
28 T	Bromochloromethane	0.494	0.453	8.3	88	0.00
29 T	Tetrahydrofuran	0.106	0.107	-0.9	99	0.00
30 C	Chloroform	1.133	1.085	4.2#	87	0.00
31 T	Cyclohexane	1.071	1.060	1.0	102	0.00
32 T	1,1,1-Trichloroethane	0.995	1.011	-1.6	101	0.00
33 S	1,2-Dichloroethane-d4	0.574	0.565	1.6	88	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
35 S	Dibromofluoromethane	0.321	0.306	4.7	83	0.00
36 T	1,1-Dichloropropene	0.490	0.514	-4.9	99	0.00
37 T	Ethyl Acetate	0.224	0.233	-4.0	96	0.00
38 T	Carbon Tetrachloride	0.511	0.567	-11.0	104	0.00
39 T	Methylcyclohexane	0.613	0.670	-9.3	101	0.00
40 TM	Benzene	1.435	1.470	-2.4	96	0.00
41 T	Methacrylonitrile	0.128	0.121	5.5	90	0.00
42 TM	1,2-Dichloroethane	0.387	0.400	-3.4	96	0.00
43 T	Isopropyl Acetate	0.436	0.455	-4.4	94	0.00
44 TM	Trichloroethene	0.340	0.345	-1.5	95	0.00
45 C	1,2-Dichloropropane	0.342	0.347	-1.5#	95	0.00
46 T	Dibromomethane	0.175	0.173	1.1	88	0.00
47 T	Bromodichloromethane	0.484	0.494	-2.1	88	0.00
48 T	Methyl methacrylate	0.209	0.218	-4.3	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
 Data File : VY020347.D
 Acq On : 20 Nov 2024 09:34
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 21 00:41:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	95	0.00
50 S	Toluene-d8	1.263	1.246	1.3	78	0.00
51 T	4-Methyl-2-Pentanone	0.221	0.229	-3.6	82	0.00
52 CM	Toluene	0.877	0.892	-1.7#	92	0.00
53 T	t-1,3-Dichloropropene	0.458	0.466	-1.7	91	0.00
54 T	cis-1,3-Dichloropropene	0.524	0.550	-5.0	96	0.00
55 T	1,1,2-Trichloroethane	0.233	0.225	3.4	90	0.00
56 T	Ethyl methacrylate	0.350	0.357	-2.0	88	0.00
57 T	1,3-Dichloropropane	0.419	0.417	0.5	88	0.00
58 T	2-Chloroethyl Vinyl ether	0.166	0.163	1.8	91	0.00
59 T	2-Hexanone	0.157	0.176	-12.1	91	0.00
60 T	Dibromochloromethane	0.300	0.305	-1.7	88	0.00
61 T	1,2-Dibromoethane	0.216	0.209	3.2	85	0.00
62 S	4-Bromofluorobenzene	0.406	0.409	-0.7	83	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	85	0.00
64 T	Tetrachloroethene	0.360	0.363	-0.8	93	0.00
65 PM	Chlorobenzene	1.115	1.114	0.1	82	0.00
66 T	1,1,1,2-Tetrachloroethane	0.372	0.379	-1.9	87	0.00
67 C	Ethyl Benzene	2.057	2.117	-2.9#	87	0.00
68 T	m/p-Xylenes	0.741	0.770	-3.9	92	0.00
69 T	o-Xylene	0.703	0.726	-3.3	92	0.00
70 T	Styrene	1.167	1.218	-4.4	91	0.00
71 P	Bromoform	0.194	0.200	-3.1	90	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
73 T	Isopropylbenzene	4.236	4.367	-3.1	94	0.00
74 T	N-amyl acetate	1.024	1.089	-6.3	93	0.00
75 P	1,1,2,2-Tetrachloroethane	0.685	0.666	2.8	85	0.00
76 T	1,2,3-Trichloropropane	0.471	0.458	2.8	84	0.00
77 T	Bromobenzene	0.887	0.882	0.6	89	0.00
78 T	n-propylbenzene	5.083	5.295	-4.2	95	0.00
79 T	2-Chlorotoluene	2.923	2.963	-1.4	96	0.00
80 T	1,3,5-Trimethylbenzene	3.423	3.524	-3.0	97	0.00
81 T	trans-1,4-Dichloro-2-butene	0.241	0.243	-0.8	89	0.00
82 T	4-Chlorotoluene	3.016	3.021	-0.2	96	0.00
83 T	tert-Butylbenzene	3.021	3.207	-6.2	97	0.00
84 T	1,2,4-Trimethylbenzene	3.394	3.446	-1.5	94	0.00
85 T	sec-Butylbenzene	4.762	4.650	2.4	85	0.00
86 T	p-Isopropyltoluene	3.682	3.830	-4.0	93	0.00
87 T	1,3-Dichlorobenzene	1.794	1.743	2.8	88	0.00
88 T	1,4-Dichlorobenzene	1.714	1.708	0.4	92	0.00
89 T	n-Butylbenzene	3.526	3.720	-5.5	95	0.00
90 T	Hexachloroethane	0.711	0.715	-0.6	86	0.00
91 T	1,2-Dichlorobenzene	1.495	1.493	0.1	90	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.112	0.109	2.7	85	0.00
93 T	1,2,4-Trichlorobenzene	0.904	0.954	-5.5	100	0.00
94 T	Hexachlorobutadiene	0.552	0.625	-13.2	108	0.00
95 T	Naphthalene	1.557	1.704	-9.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020347.D
Acq On : 20 Nov 2024 09:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 21 00:41:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.773	0.794	-2.7	99	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
 Data File : VY020347.D
 Acq On : 20 Nov 2024 09:34
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 21 00:41:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	99	0.00
2 T	Dichlorodifluoromethane	50.000	56.651	-13.3	120	0.00
3 P	Chloromethane	50.000	46.102	7.8	86	0.00
4 C	Vinyl Chloride	50.000	44.262	11.5#	94	0.00
5 T	Bromomethane	50.000	46.797	6.4	98	0.00
6 T	Chloroethane	50.000	45.515	9.0	95	0.00
7 T	Trichlorofluoromethane	50.000	51.662	-3.3	102	0.00
8 T	Diethyl Ether	50.000	48.744	2.5	92	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.591	0.8	92	0.00
10 T	Methyl Iodide	50.000	48.038	3.9	85	0.00
11 T	Tert butyl alcohol	250.000	210.807	15.7	99	0.00
12 CM	1,1-Dichloroethene	50.000	49.185	1.6#	91	0.00
13 T	Acrolein	250.000	253.685	-1.5	99	0.00
14 T	Allyl chloride	50.000	48.587	2.8	107	0.00
15 T	Acrylonitrile	250.000	241.217	3.5	100	0.00
16 T	Acetone	250.000	280.915	-12.4	96	0.00
17 T	Carbon Disulfide	50.000	48.469	3.1	85	0.00
18 T	Methyl Acetate	50.000	46.988	6.0	99	0.00
19 T	Methyl tert-butyl Ether	50.000	48.052	3.9	96	0.01
20 T	Methylene Chloride	50.000	47.429	5.1	96	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.470	3.1	97	0.00
22 T	Diisopropyl ether	50.000	46.869	6.3	96	0.00
23 T	Vinyl Acetate	250.000	241.614	3.4	97	0.00
24 P	1,1-Dichloroethane	50.000	48.024	4.0	98	0.00
25 T	2-Butanone	250.000	270.087	-8.0	106	0.00
26 T	2,2-Dichloropropane	50.000	51.319	-2.6	103	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.542	0.9	95	0.00
28 T	Bromochloromethane	50.000	45.817	8.4	88	0.00
29 T	Tetrahydrofuran	250.000	251.939	-0.8	99	0.00
30 C	Chloroform	50.000	47.857	4.3#	87	0.00
31 T	Cyclohexane	50.000	49.517	1.0	102	0.00
32 T	1,1,1-Trichloroethane	50.000	50.807	-1.6	101	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.173	1.7	88	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	88	0.00
35 S	Dibromofluoromethane	50.000	47.773	4.5	83	0.00
36 T	1,1-Dichloropropene	50.000	52.444	-4.9	99	0.00
37 T	Ethyl Acetate	50.000	51.960	-3.9	96	0.00
38 T	Carbon Tetrachloride	50.000	55.464	-10.9	104	0.00
39 T	Methylcyclohexane	50.000	54.648	-9.3	101	0.00
40 TM	Benzene	50.000	51.206	-2.4	96	0.00
41 T	Methacrylonitrile	50.000	47.339	5.3	90	0.00
42 TM	1,2-Dichloroethane	50.000	51.651	-3.3	96	0.00
43 T	Isopropyl Acetate	50.000	52.201	-4.4	94	0.00
44 TM	Trichloroethene	50.000	50.753	-1.5	95	0.00
45 C	1,2-Dichloropropane	50.000	50.648	-1.3#	95	0.00
46 T	Dibromomethane	50.000	49.338	1.3	88	0.00
47 T	Bromodichloromethane	50.000	51.033	-2.1	88	0.00
48 T	Methyl methacrylate	50.000	52.297	-4.6	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
 Data File : VY020347.D
 Acq On : 20 Nov 2024 09:34
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 21 00:41:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1047.335	-4.7	95	0.00
50 S	Toluene-d8	50.000	49.344	1.3	78	0.00
51 T	4-Methyl-2-Pentanone	250.000	258.674	-3.5	82	0.00
52 CM	Toluene	50.000	50.868	-1.7#	92	0.00
53 T	t-1,3-Dichloropropene	50.000	50.851	-1.7	91	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.437	-4.9	96	0.00
55 T	1,1,2-Trichloroethane	50.000	48.306	3.4	90	0.00
56 T	Ethyl methacrylate	50.000	50.954	-1.9	88	0.00
57 T	1,3-Dichloropropane	50.000	49.795	0.4	88	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	244.993	2.0	91	0.00
59 T	2-Hexanone	250.000	281.280	-12.5	91	0.00
60 T	Dibromochloromethane	50.000	50.857	-1.7	88	0.00
61 T	1,2-Dibromoethane	50.000	48.502	3.0	85	0.00
62 S	4-Bromofluorobenzene	50.000	50.330	-0.7	83	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	85	0.00
64 T	Tetrachloroethene	50.000	50.380	-0.8	93	0.00
65 PM	Chlorobenzene	50.000	49.964	0.1	82	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.860	-1.7	87	0.00
67 C	Ethyl Benzene	50.000	51.467	-2.9#	87	0.00
68 T	m/p-Xylenes	100.000	103.957	-4.0	92	0.00
69 T	o-Xylene	50.000	51.628	-3.3	92	0.00
70 T	Styrene	50.000	52.177	-4.4	91	0.00
71 P	Bromoform	50.000	51.574	-3.1	90	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	93	0.00
73 T	Isopropylbenzene	50.000	51.550	-3.1	94	0.00
74 T	N-amyl acetate	50.000	53.200	-6.4	93	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.642	2.7	85	0.00
76 T	1,2,3-Trichloropropane	50.000	48.590	2.8	84	0.00
77 T	Bromobenzene	50.000	49.713	0.6	89	0.00
78 T	n-propylbenzene	50.000	52.082	-4.2	95	0.00
79 T	2-Chlorotoluene	50.000	50.690	-1.4	96	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.473	-2.9	97	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	50.540	-1.1	89	0.00
82 T	4-Chlorotoluene	50.000	50.075	-0.2	96	0.00
83 T	tert-Butylbenzene	50.000	53.077	-6.2	97	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.771	-1.5	94	0.00
85 T	sec-Butylbenzene	50.000	48.826	2.3	85	0.00
86 T	p-Isopropyltoluene	50.000	52.008	-4.0	93	0.00
87 T	1,3-Dichlorobenzene	50.000	48.563	2.9	88	0.00
88 T	1,4-Dichlorobenzene	50.000	49.808	0.4	92	0.00
89 T	n-Butylbenzene	50.000	52.746	-5.5	95	0.00
90 T	Hexachloroethane	50.000	50.295	-0.6	86	0.00
91 T	1,2-Dichlorobenzene	50.000	49.921	0.2	90	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	48.583	2.8	85	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.769	-5.5	100	0.00
94 T	Hexachlorobutadiene	50.000	56.619	-13.2	108	0.00
95 T	Naphthalene	50.000	54.723	-9.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020347.D
Acq On : 20 Nov 2024 09:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 21 00:41:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.399	-2.8	99	0.00

(#) = Out of Range

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: MSVOA_Y Calibration Date/Time: 11/21/2024 09:25

Lab File ID: VY020373.D Init. Calib. Date(s): 11/19/2024 11/19/2024

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

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.485	0.554		14.23	20
Chloromethane	0.735	0.578	0.1	-21.36	20
Vinyl Chloride	0.666	0.567		-14.86	20
Bromomethane	0.333	0.304		-8.71	20
Chloroethane	0.388	0.335		-13.66	20
Trichlorofluoromethane	0.925	0.962		4	20
1,1,2-Trichlorotrifluoroethane	0.551	0.533		-3.27	20
1,1-Dichloroethene	0.545	0.530		-2.75	20
Acetone	0.138	0.163		18.12	20
Carbon Disulfide	1.838	1.752		-4.68	20
Methyl tert-butyl Ether	1.417	1.447		2.12	20
Methyl Acetate	0.321	0.327		1.87	20
Methylene Chloride	0.583	0.567		-2.74	20
trans-1,2-Dichloroethene	0.606	0.581		-4.13	20
1,1-Dichloroethane	1.173	1.127	0.1	-3.92	20
Cyclohexane	1.071	1.017		-5.04	20
2-Butanone	0.177	0.204		15.25	20
Carbon Tetrachloride	0.511	0.577		12.92	20
cis-1,2-Dichloroethene	0.667	0.667		0	20
Bromochloromethane	0.494	0.461		-6.68	20
Chloroform	1.133	1.101		-2.82	20
1,1,1-Trichloroethane	0.995	1.042		4.72	20
Methylcyclohexane	0.613	0.632		3.1	20
Benzene	1.435	1.479		3.07	20
1,2-Dichloroethane	0.387	0.423		9.3	20
Trichloroethene	0.340	0.348		2.35	20
1,2-Dichloropropane	0.342	0.348		1.75	20
Bromodichloromethane	0.484	0.509		5.16	20
4-Methyl-2-Pentanone	0.221	0.244		10.41	20
Toluene	0.877	0.905		3.19	20
t-1,3-Dichloropropene	0.458	0.480		4.8	20
cis-1,3-Dichloropropene	0.524	0.559		6.68	20
1,1,2-Trichloroethane	0.233	0.236		1.29	20
2-Hexanone	0.157	0.185		17.83	20
Dibromochloromethane	0.300	0.320		6.67	20
1,2-Dibromoethane	0.216	0.221		2.32	20
Tetrachloroethene	0.360	0.362		0.56	20
Chlorobenzene	1.115	1.107	0.3	-0.72	20

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



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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02
 Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860
 Instrument ID: MSVOA_Y Calibration Date/Time: 11/21/2024 09:25
 Lab File ID: VY020373.D Init. Calib. Date(s): 11/19/2024 11/19/2024
 Heated Purge: (Y/N) Y Init. Calib. Time(s): 15:49 17:42
 GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.057	2.103		2.24	20
m/p-Xylenes	0.741	0.763		2.97	20
o-Xylene	0.703	0.723		2.85	20
Styrene	1.167	1.231		5.48	20
Bromoform	0.194	0.213	0.1	9.79	20
Isopropylbenzene	4.236	4.245		0.21	20
1,1,2,2-Tetrachloroethane	0.685	0.699	0.3	2.04	20
1,3-Dichlorobenzene	1.794	1.751		-2.4	20
1,4-Dichlorobenzene	1.714	1.699		-0.88	20
1,2-Dichlorobenzene	1.495	1.513		1.2	20
1,2-Dibromo-3-Chloropropane	0.112	0.112		0	20
1,2,4-Trichlorobenzene	0.904	0.922		1.99	20
1,2,3-Trichlorobenzene	0.773	0.768		-0.65	20
1,2-Dichloroethane-d4	0.574	0.598		4.18	20
Dibromofluoromethane	0.321	0.316		-1.56	20
Toluene-d8	1.263	1.242		-1.66	20
4-Bromofluorobenzene	0.406	0.415		2.22	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\VY112124\
 Data File : VY020373.D
 Acq On : 21 Nov 2024 09:25
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 11/22/2024
 Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 13:55:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	191018	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	313957	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	263957	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	121826	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	114241	52.056	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	104.120%
35) Dibromofluoromethane	7.640	113	99082	49.217	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.440%
50) Toluene-d8	10.109	98	389849	49.159	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.320%
62) 4-Bromofluorobenzene	12.408	95	130147	51.051	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	102.100%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.873	85	105756	57.038	ug/l	99
3) Chloromethane	2.074	50	110402	44.989	ug/l	98
4) Vinyl Chloride	2.214	62	108241	42.554	ug/l	99
5) Bromomethane	2.604	94	58141	45.767	ug/l	100
6) Chloroethane	2.745	64	64064	43.174	ug/l	99
7) Trichlorofluoromethane	3.068	101	183733	51.979	ug/l	99
8) Diethyl Ether	3.464	74	55454	49.722	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.824	101	101743	48.332	ug/l	100
10) Methyl Iodide	4.019	142	134068	47.547	ug/l	94
11) Tert butyl alcohol	4.872	59	36712	226.965	ug/l	99
12) 1,1-Dichloroethene	3.799	96	101210	48.571	ug/l	91
13) Acrolein	3.665	56	41887	308.240	ug/l	97
14) Allyl chloride	4.391	41	194056	48.159	ug/l	94
15) Acrylonitrile	5.067	53	127193	257.993	ug/l	100
16) Acetone	3.879	43	156029	296.575	ug/l	93
17) Carbon Disulfide	4.116	76	334637	47.667	ug/l	100
18) Methyl Acetate	4.397	43	62427	50.904	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	276461	51.073	ug/l	100
20) Methylene Chloride	4.628	84	108400	48.655	ug/l	97
21) trans-1,2-Dichloroethene	5.128	96	111034	47.976	ug/l	95
22) Diisopropyl ether	6.025	45	379634	47.808	ug/l	98
23) Vinyl Acetate	5.970	43	1113464	250.913	ug/l	98
24) 1,1-Dichloroethane	5.927	63	215234	48.013	ug/l	99
25) 2-Butanone	6.902	43	194697	287.460	ug/l	98
26) 2,2-Dichloropropane	6.890	77	191447	51.670	ug/l	99
27) cis-1,2-Dichloroethene	6.902	96	127322	49.947	ug/l	98
28) Bromochloromethane	7.250	49	88109	46.699	ug/l	100
29) Tetrahydrofuran	7.268	42	109090	269.487	ug/l	98
30) Chloroform	7.427	83	210274	48.574	ug/l	99
31) Cyclohexane	7.707	56	194230	47.477	ug/l	97
32) 1,1,1-Trichloroethane	7.622	97	199027	52.361	ug/l	98
36) 1,1-Dichloropropene	7.841	75	159083	51.736	ug/l	99
37) Ethyl Acetate	6.988	43	78302	55.589	ug/l	99
38) Carbon Tetrachloride	7.823	117	181264	56.460	ug/l	97
39) Methylcyclohexane	9.115	83	198413	51.560	ug/l	96
40) Benzene	8.085	78	464288	51.524	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
 Data File : VY020373.D
 Acq On : 21 Nov 2024 09:25
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 11/22/2024
 Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 13:55:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	45520	56.796	ug/l	96
42) 1,2-Dichloroethane	8.164	62	132760	54.582	ug/l	98
43) Isopropyl Acetate	8.201	43	152400	55.636	ug/l #	90
44) Trichloroethene	8.872	130	109148	51.123	ug/l	100
45) 1,2-Dichloropropane	9.146	63	109335	50.856	ug/l	99
46) Dibromomethane	9.237	93	58050	52.680	ug/l	99
47) Bromodichloromethane	9.426	83	159849	52.549	ug/l	98
48) Methyl methacrylate	9.225	41	72620	55.450	ug/l	96
49) 1,4-Dioxane	9.237	88	11733	1034.957	ug/l #	88
51) 4-Methyl-2-Pentanone	9.999	43	382611	275.235	ug/l	99
52) Toluene	10.176	92	284192	51.599	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	150684	52.384	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	175444	53.280	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	73941	50.551	ug/l	98
56) Ethyl methacrylate	10.444	69	117267	53.384	ug/l	99
57) 1,3-Dichloropropane	10.719	76	138386	52.644	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	287613	276.129	ug/l	98
59) 2-Hexanone	10.762	43	289969	294.578	ug/l	99
60) Dibromochloromethane	10.914	129	100432	53.270	ug/l	98
61) 1,2-Dibromoethane	11.018	107	69299	51.128	ug/l	100
64) Tetrachloroethene	10.652	164	95629	50.259	ug/l	97
65) Chlorobenzene	11.444	112	292282	49.663	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.517	131	101973	51.867	ug/l	98
67) Ethyl Benzene	11.524	91	554988	51.115	ug/l	100
68) m/p-Xylenes	11.633	106	402780	102.989	ug/l	97
69) o-Xylene	11.956	106	190779	51.431	ug/l	97
70) Styrene	11.975	104	324962	52.727	ug/l	98
71) Bromoform	12.139	173	56258	54.905	ug/l #	98
73) Isopropylbenzene	12.261	105	517205	50.117	ug/l	100
74) N-ethyl acetate	12.072	43	134142	53.787	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.511	83	85136	51.044	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	63029m	54.892	ug/l	
77) Bromobenzene	12.536	156	108458	50.161	ug/l	97
78) n-propylbenzene	12.603	91	622006	50.221	ug/l	100
79) 2-Chlorotoluene	12.682	91	352846	49.548	ug/l	99
80) 1,3,5-Trimethylbenzene	12.743	105	423200	50.741	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.310	75	31947	54.517	ug/l	97
82) 4-Chlorotoluene	12.786	91	360361	49.033	ug/l	98
83) tert-Butylbenzene	13.005	119	377510	51.291	ug/l	99
84) 1,2,4-Trimethylbenzene	13.048	105	413969	50.063	ug/l	98
85) sec-Butylbenzene	13.182	105	539489	46.494	ug/l	99
86) p-Isopropyltoluene	13.298	119	447545	49.885	ug/l	99
87) 1,3-Dichlorobenzene	13.292	146	213276	48.784	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	207020	49.561	ug/l	99
89) n-Butylbenzene	13.627	91	426701	49.666	ug/l	100
90) Hexachloroethane	13.889	117	85124	49.160	ug/l	97
91) 1,2-Dichlorobenzene	13.663	146	184340	50.608	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	13654	49.889	ug/l	95
93) 1,2,4-Trichlorobenzene	14.931	180	112273	50.977	ug/l	99
94) Hexachlorobutadiene	15.029	225	69051	51.363	ug/l	99
95) Naphthalene	15.151	128	205233	54.108	ug/l	100
96) 1,2,3-Trichlorobenzene	15.340	180	93604	49.707	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020373.D
Acq On : 21 Nov 2024 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 13:55:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

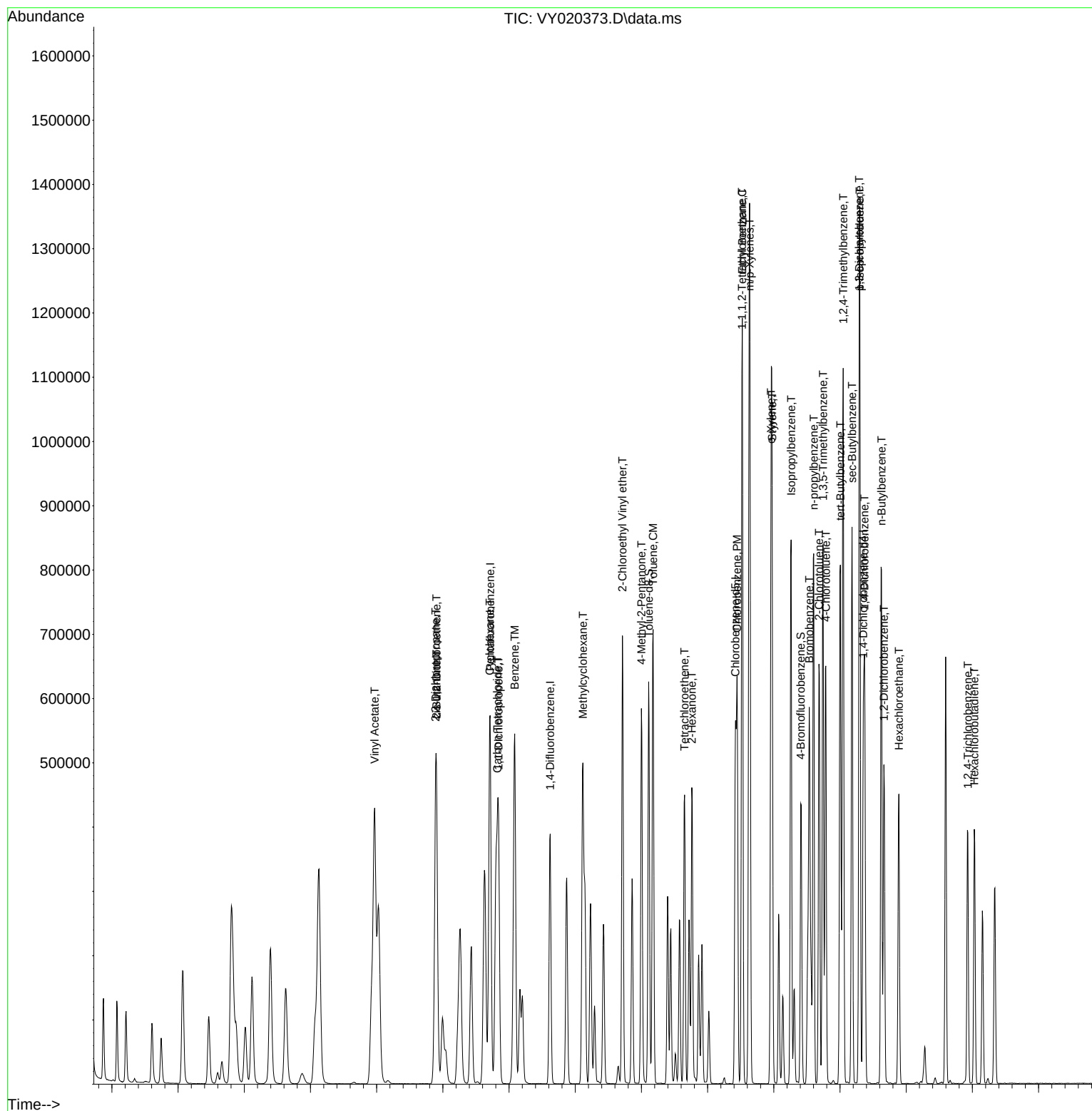
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
 Data File : VY020373.D
 Acq On : 21 Nov 2024 09:25
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 21 13:55:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	84	0.00
2 T	Dichlorodifluoromethane	0.485	0.554	-14.2	103	0.00
3 P	Chloromethane	0.735	0.578	21.4	71	0.00
4 C	Vinyl Chloride	0.666	0.567	14.9#	77	0.00
5 T	Bromomethane	0.333	0.304	8.7	82	0.00
6 T	Chloroethane	0.388	0.335	13.7	76	0.00
7 T	Trichlorofluoromethane	0.925	0.962	-4.0	87	0.00
8 T	Diethyl Ether	0.292	0.290	0.7	80	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.551	0.533	3.3	76	0.00
10 T	Methyl Iodide	0.738	0.702	4.9	71	0.01
11 T	Tert butyl alcohol	0.044	0.038	13.6	89	0.00
12 CM	1,1-Dichloroethene	0.545	0.530	2.8#	76	0.00
13 T	Acrolein	0.036	0.044	-22.2	102	0.00
14 T	Allyl chloride	1.055	1.016	3.7	90	0.00
15 T	Acrylonitrile	0.129	0.133	-3.1	90	0.00
16 T	Acetone	0.138	0.163	-18.1	86	0.00
17 T	Carbon Disulfide	1.838	1.752	4.7	71	0.00
18 T	Methyl Acetate	0.321	0.327	-1.9	91	0.00
19 T	Methyl tert-butyl Ether	1.417	1.447	-2.1	87	0.00
20 T	Methylene Chloride	0.583	0.567	2.7	84	0.01
21 T	trans-1,2-Dichloroethene	0.606	0.581	4.1	81	0.00
22 T	Diisopropyl ether	2.079	1.987	4.4	83	0.00
23 T	Vinyl Acetate	1.162	1.166	-0.3	85	0.00
24 P	1,1-Dichloroethane	1.173	1.127	3.9	83	0.00
25 T	2-Butanone	0.177	0.204	-15.3	95	0.00
26 T	2,2-Dichloropropane	0.970	1.002	-3.3	88	0.00
27 T	cis-1,2-Dichloroethene	0.667	0.667	0.0	82	0.00
28 T	Bromochloromethane	0.494	0.461	6.7	76	0.00
29 T	Tetrahydrofuran	0.106	0.114	-7.5	90	0.00
30 C	Chloroform	1.133	1.101	2.8#	75	0.00
31 T	Cyclohexane	1.071	1.017	5.0	83	0.00
32 T	1,1,1-Trichloroethane	0.995	1.042	-4.7	88	0.00
33 S	1,2-Dichloroethane-d4	0.574	0.598	-4.2	79	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	75	0.00
35 S	Dibromofluoromethane	0.321	0.316	1.6	73	0.00
36 T	1,1-Dichloropropene	0.490	0.507	-3.5	83	0.00
37 T	Ethyl Acetate	0.224	0.249	-11.2	88	0.00
38 T	Carbon Tetrachloride	0.511	0.577	-12.9	90	0.00
39 T	Methylcyclohexane	0.613	0.632	-3.1	81	0.00
40 TM	Benzene	1.435	1.479	-3.1	82	0.00
41 T	Methacrylonitrile	0.128	0.145	-13.3	92	0.00
42 TM	1,2-Dichloroethane	0.387	0.423	-9.3	87	0.00
43 T	Isopropyl Acetate	0.436	0.485	-11.2	86	0.00
44 TM	Trichloroethene	0.340	0.348	-2.4	81	0.00
45 C	1,2-Dichloropropane	0.342	0.348	-1.8#	82	0.00
46 T	Dibromomethane	0.175	0.185	-5.7	80	0.00
47 T	Bromodichloromethane	0.484	0.509	-5.2	77	0.00
48 T	Methyl methacrylate	0.209	0.231	-10.5	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
 Data File : VY020373.D
 Acq On : 21 Nov 2024 09:25
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 21 13:55:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	80	0.00
50 S	Toluene-d8	1.263	1.242	1.7	66	0.00
51 T	4-Methyl-2-Pentanone	0.221	0.244	-10.4	74	0.00
52 CM	Toluene	0.877	0.905	-3.2#	80	0.00
53 T	t-1,3-Dichloropropene	0.458	0.480	-4.8	80	0.00
54 T	cis-1,3-Dichloropropene	0.524	0.559	-6.7	83	0.00
55 T	1,1,2-Trichloroethane	0.233	0.236	-1.3	80	0.00
56 T	Ethyl methacrylate	0.350	0.374	-6.9	79	0.00
57 T	1,3-Dichloropropane	0.419	0.441	-5.3	79	0.00
58 T	2-Chloroethyl Vinyl ether	0.166	0.183	-10.2	87	0.00
59 T	2-Hexanone	0.157	0.185	-17.8	81	0.00
60 T	Dibromochloromethane	0.300	0.320	-6.7	78	0.00
61 T	1,2-Dibromoethane	0.216	0.221	-2.3	76	0.00
62 S	4-Bromofluorobenzene	0.406	0.415	-2.2	72	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	73	0.00
64 T	Tetrachloroethene	0.360	0.362	-0.6	80	0.00
65 PM	Chlorobenzene	1.115	1.107	0.7	71	0.00
66 T	1,1,1,2-Tetrachloroethane	0.372	0.386	-3.8	76	0.00
67 C	Ethyl Benzene	2.057	2.103	-2.2#	75	0.00
68 T	m/p-Xylenes	0.741	0.763	-3.0	79	0.00
69 T	o-Xylene	0.703	0.723	-2.8	79	0.00
70 T	Styrene	1.167	1.231	-5.5	80	0.00
71 P	Bromoform	0.194	0.213	-9.8	83	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00
73 T	Isopropylbenzene	4.236	4.245	-0.2	80	0.00
74 T	N-amyl acetate	1.024	1.101	-7.5	82	0.00
75 P	1,1,2,2-Tetrachloroethane	0.685	0.699	-2.0	78	0.00
76 T	1,2,3-Trichloropropane	0.471	0.517	-9.8	82	0.00
77 T	Bromobenzene	0.887	0.890	-0.3	79	0.00
78 T	n-propylbenzene	5.083	5.106	-0.5	80	0.00
79 T	2-Chlorotoluene	2.923	2.896	0.9	82	0.00
80 T	1,3,5-Trimethylbenzene	3.423	3.474	-1.5	83	0.00
81 T	trans-1,4-Dichloro-2-butene	0.241	0.262	-8.7	83	0.00
82 T	4-Chlorotoluene	3.016	2.958	1.9	82	0.00
83 T	tert-Butylbenzene	3.021	3.099	-2.6	82	0.00
84 T	1,2,4-Trimethylbenzene	3.394	3.398	-0.1	81	0.00
85 T	sec-Butylbenzene	4.762	4.428	7.0	71	0.00
86 T	p-Isopropyltoluene	3.682	3.674	0.2	78	0.00
87 T	1,3-Dichlorobenzene	1.794	1.751	2.4	77	0.00
88 T	1,4-Dichlorobenzene	1.714	1.699	0.9	80	0.00
89 T	n-Butylbenzene	3.526	3.503	0.7	78	0.00
90 T	Hexachloroethane	0.711	0.699	1.7	74	0.01
91 T	1,2-Dichlorobenzene	1.495	1.513	-1.2	80	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.112	0.112	0.0	77	0.00
93 T	1,2,4-Trichlorobenzene	0.904	0.922	-2.0	84	0.01
94 T	Hexachlorobutadiene	0.552	0.567	-2.7	86	0.00
95 T	Naphthalene	1.557	1.685	-8.2	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020373.D
Acq On : 21 Nov 2024 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 21 13:55:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.773	0.768	0.6	84	0.01

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
 Data File : VY020373.D
 Acq On : 21 Nov 2024 09:25
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 21 13:55:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	84	0.00
2 T	Dichlorodifluoromethane	50.000	57.038	-14.1	103	0.00
3 P	Chloromethane	50.000	44.989	10.0	71	0.00
4 C	Vinyl Chloride	50.000	42.554	14.9#	77	0.00
5 T	Bromomethane	50.000	45.767	8.5	82	0.00
6 T	Chloroethane	50.000	43.174	13.7	76	0.00
7 T	Trichlorofluoromethane	50.000	51.979	-4.0	87	0.00
8 T	Diethyl Ether	50.000	49.722	0.6	80	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.332	3.3	76	0.00
10 T	Methyl Iodide	50.000	47.547	4.9	71	0.01
11 T	Tert butyl alcohol	250.000	226.965	9.2	89	0.00
12 CM	1,1-Dichloroethene	50.000	48.571	2.9#	76	0.00
13 T	Acrolein	250.000	308.240	-23.3	102	0.00
14 T	Allyl chloride	50.000	48.159	3.7	90	0.00
15 T	Acrylonitrile	250.000	257.993	-3.2	90	0.00
16 T	Acetone	250.000	296.575	-18.6	86	0.00
17 T	Carbon Disulfide	50.000	47.667	4.7	71	0.00
18 T	Methyl Acetate	50.000	50.904	-1.8	91	0.00
19 T	Methyl tert-butyl Ether	50.000	51.073	-2.1	87	0.00
20 T	Methylene Chloride	50.000	48.655	2.7	84	0.01
21 T	trans-1,2-Dichloroethene	50.000	47.976	4.0	81	0.00
22 T	Diisopropyl ether	50.000	47.808	4.4	83	0.00
23 T	Vinyl Acetate	250.000	250.913	-0.4	85	0.00
24 P	1,1-Dichloroethane	50.000	48.013	4.0	83	0.00
25 T	2-Butanone	250.000	287.460	-15.0	95	0.00
26 T	2,2-Dichloropropane	50.000	51.670	-3.3	88	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.947	0.1	82	0.00
28 T	Bromochloromethane	50.000	46.699	6.6	76	0.00
29 T	Tetrahydrofuran	250.000	269.487	-7.8	90	0.00
30 C	Chloroform	50.000	48.574	2.9#	75	0.00
31 T	Cyclohexane	50.000	47.477	5.0	83	0.00
32 T	1,1,1-Trichloroethane	50.000	52.361	-4.7	88	0.00
33 S	1,2-Dichloroethane-d4	50.000	52.056	-4.1	79	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	75	0.00
35 S	Dibromofluoromethane	50.000	49.217	1.6	73	0.00
36 T	1,1-Dichloropropene	50.000	51.736	-3.5	83	0.00
37 T	Ethyl Acetate	50.000	55.589	-11.2	88	0.00
38 T	Carbon Tetrachloride	50.000	56.460	-12.9	90	0.00
39 T	Methylcyclohexane	50.000	51.560	-3.1	81	0.00
40 TM	Benzene	50.000	51.524	-3.0	82	0.00
41 T	Methacrylonitrile	50.000	56.796	-13.6	92	0.00
42 TM	1,2-Dichloroethane	50.000	54.582	-9.2	87	0.00
43 T	Isopropyl Acetate	50.000	55.636	-11.3	86	0.00
44 TM	Trichloroethene	50.000	51.123	-2.2	81	0.00
45 C	1,2-Dichloropropane	50.000	50.856	-1.7#	82	0.00
46 T	Dibromomethane	50.000	52.680	-5.4	80	0.00
47 T	Bromodichloromethane	50.000	52.549	-5.1	77	0.00
48 T	Methyl methacrylate	50.000	55.450	-10.9	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
 Data File : VY020373.D
 Acq On : 21 Nov 2024 09:25
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 21 13:55:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1034.957	-3.5	80	0.00
50 S	Toluene-d8	50.000	49.159	1.7	66	0.00
51 T	4-Methyl-2-Pentanone	250.000	275.235	-10.1	74	0.00
52 CM	Toluene	50.000	51.599	-3.2#	80	0.00
53 T	t-1,3-Dichloropropene	50.000	52.384	-4.8	80	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.280	-6.6	83	0.00
55 T	1,1,2-Trichloroethane	50.000	50.551	-1.1	80	0.00
56 T	Ethyl methacrylate	50.000	53.384	-6.8	79	0.00
57 T	1,3-Dichloropropane	50.000	52.644	-5.3	79	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	276.129	-10.5	87	0.00
59 T	2-Hexanone	250.000	294.578	-17.8	81	0.00
60 T	Dibromochloromethane	50.000	53.270	-6.5	78	0.00
61 T	1,2-Dibromoethane	50.000	51.128	-2.3	76	0.00
62 S	4-Bromofluorobenzene	50.000	51.051	-2.1	72	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	73	0.00
64 T	Tetrachloroethene	50.000	50.259	-0.5	80	0.00
65 PM	Chlorobenzene	50.000	49.663	0.7	71	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	51.867	-3.7	76	0.00
67 C	Ethyl Benzene	50.000	51.115	-2.2#	75	0.00
68 T	m/p-Xylenes	100.000	102.989	-3.0	79	0.00
69 T	o-Xylene	50.000	51.431	-2.9	79	0.00
70 T	Styrene	50.000	52.727	-5.5	80	0.00
71 P	Bromoform	50.000	54.905	-9.8	83	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	81	0.00
73 T	Isopropylbenzene	50.000	50.117	-0.2	80	0.00
74 T	N-amyl acetate	50.000	53.787	-7.6	82	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	51.044	-2.1	78	0.00
76 T	1,2,3-Trichloropropane	50.000	54.892	-9.8	82	0.00
77 T	Bromobenzene	50.000	50.161	-0.3	79	0.00
78 T	n-propylbenzene	50.000	50.221	-0.4	80	0.00
79 T	2-Chlorotoluene	50.000	49.548	0.9	82	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.741	-1.5	83	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	54.517	-9.0	83	0.00
82 T	4-Chlorotoluene	50.000	49.033	1.9	82	0.00
83 T	tert-Butylbenzene	50.000	51.291	-2.6	82	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.063	-0.1	81	0.00
85 T	sec-Butylbenzene	50.000	46.494	7.0	71	0.00
86 T	p-Isopropyltoluene	50.000	49.885	0.2	78	0.00
87 T	1,3-Dichlorobenzene	50.000	48.784	2.4	77	0.00
88 T	1,4-Dichlorobenzene	50.000	49.561	0.9	80	0.00
89 T	n-Butylbenzene	50.000	49.666	0.7	78	0.00
90 T	Hexachloroethane	50.000	49.160	1.7	74	0.01
91 T	1,2-Dichlorobenzene	50.000	50.608	-1.2	80	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.889	0.2	77	0.00
93 T	1,2,4-Trichlorobenzene	50.000	50.977	-2.0	84	0.01
94 T	Hexachlorobutadiene	50.000	51.363	-2.7	86	0.00
95 T	Naphthalene	50.000	54.108	-8.2	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020373.D
Acq On : 21 Nov 2024 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 21 13:55:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	49.707	0.6	84	0.01

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



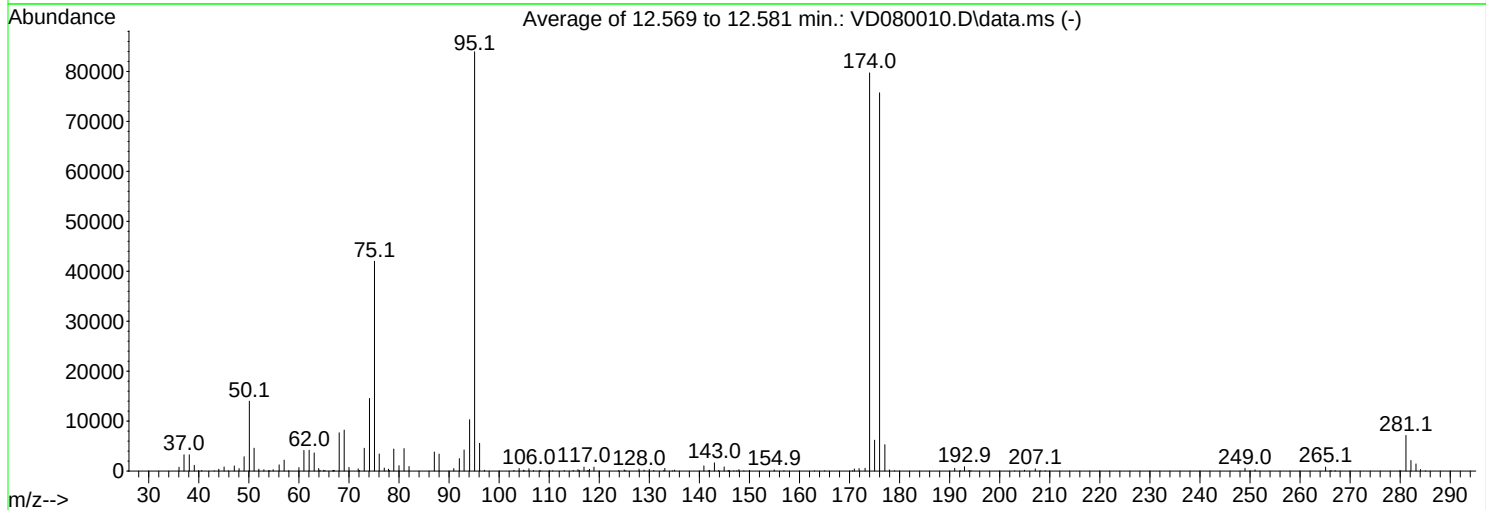
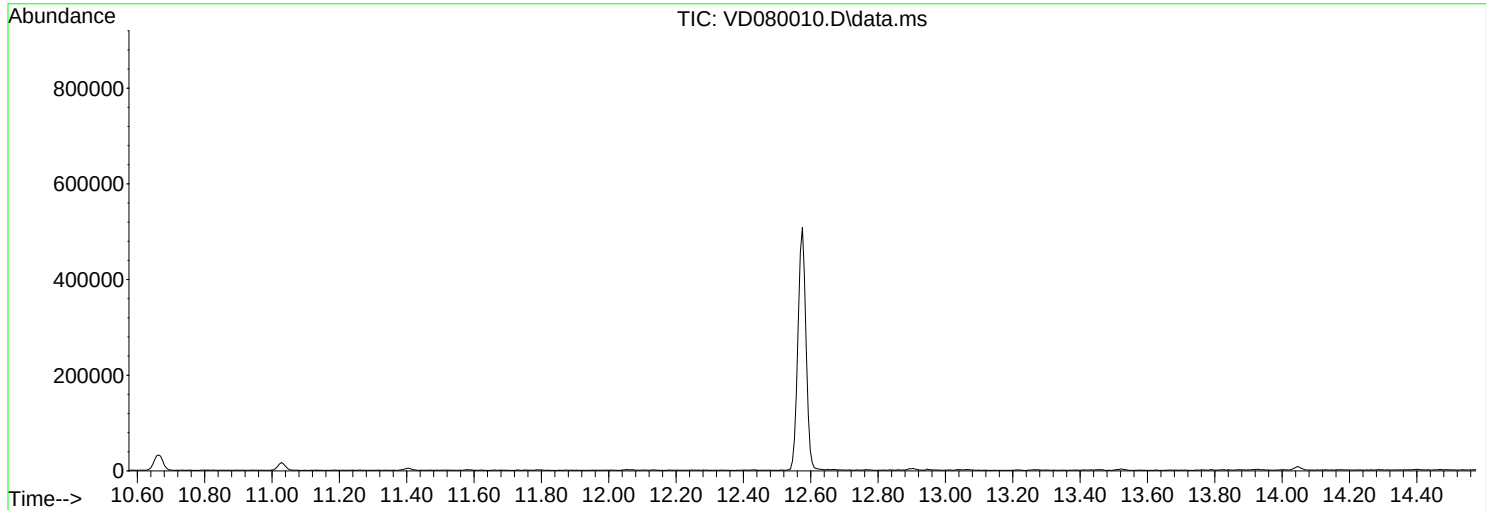
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080010.D
Acq On : 14 Nov 2024 17:14
Operator : RP/MD
Sample : BFB
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Title : SW846 8260
Last Update : Fri Nov 15 06:28:05 2024



AutoFind: Scans 1867, 1868, 1869; Background Corrected with Scan 1858

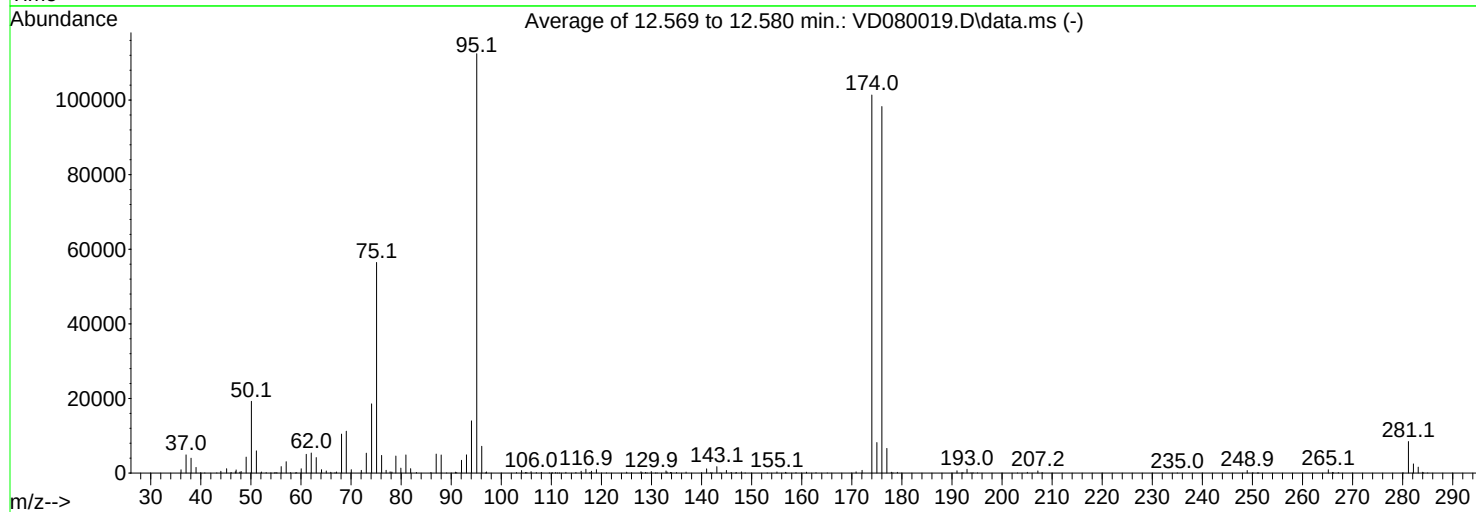
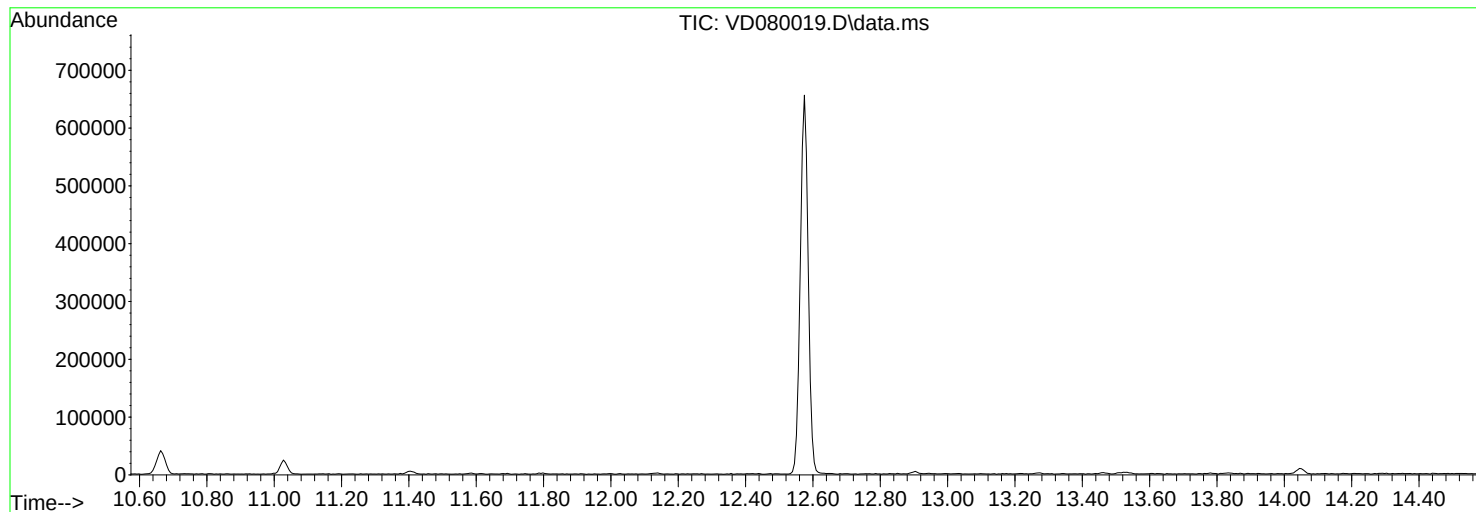
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	13997	PASS
75	95	30	60	50.0	42013	PASS
95	95	100	100	100.0	83949	PASS
96	95	5	9	6.6	5570	PASS
173	174	0.00	2	0.7	577	PASS
174	95	50	100	95.0	79717	PASS
175	174	5	9	7.8	6185	PASS
176	174	95	101	95.0	75733	PASS
177	176	5	9	7.0	5297	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111524\
Data File : VD080019.D
Acq On : 15 Nov 2024 09:14
Operator : RP/MD
Sample : BFB
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111424S.M
Title : SW846 8260
Last Update : Fri Nov 15 06:28:05 2024



AutoFind: Scans 1867, 1868, 1869; Background Corrected with Scan 1858

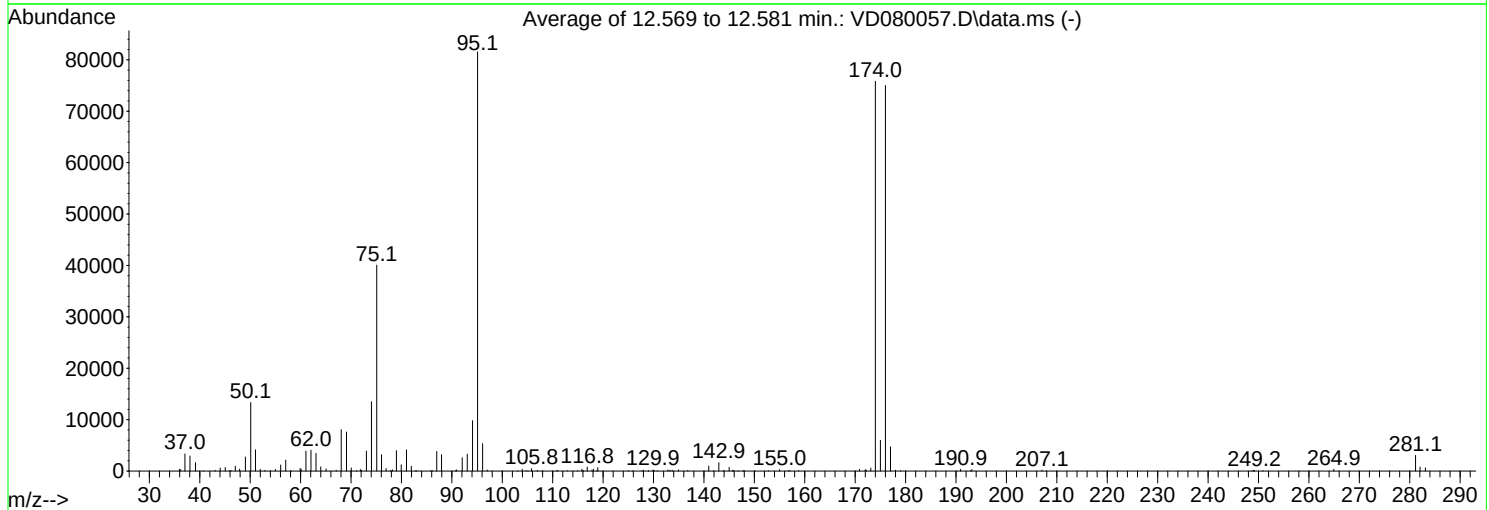
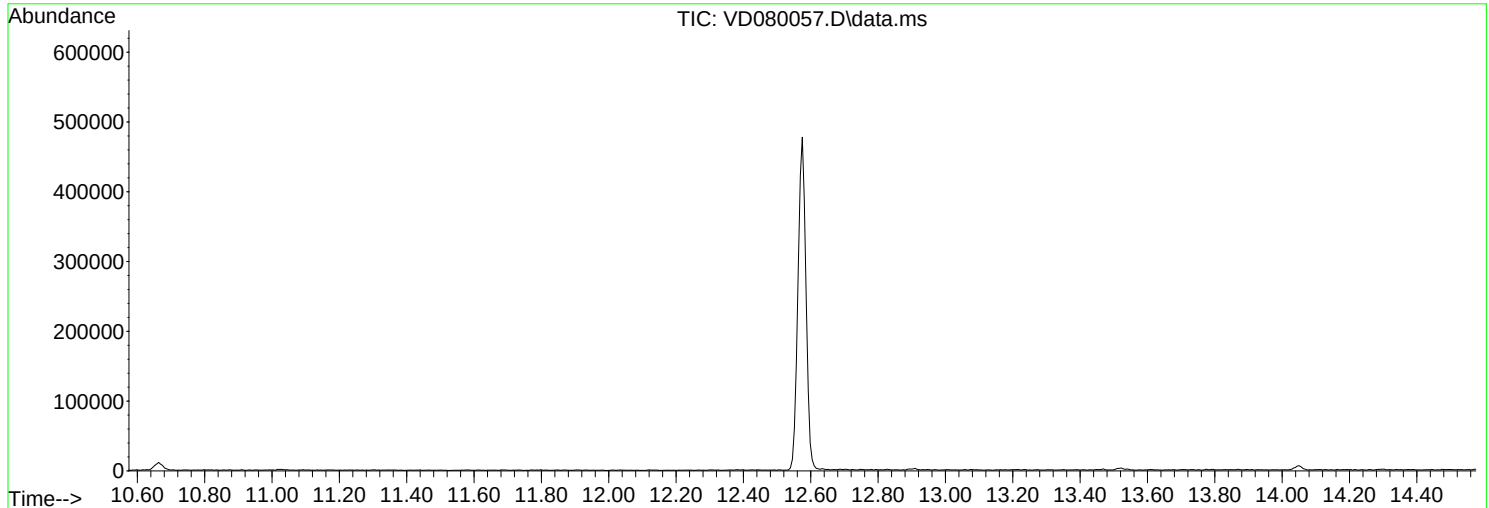
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.1	19237	PASS
75	95	30	60	50.2	56475	PASS
95	95	100	100	100.0	112421	PASS
96	95	5	9	6.4	7176	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	90.2	101355	PASS
175	174	5	9	8.1	8188	PASS
176	174	95	101	97.0	98264	PASS
177	176	5	9	6.7	6617	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080057.D
Acq On : 18 Nov 2024 09:21
Operator : RP/MD
Sample : BFB
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Title : SW846 8260
Last Update : Fri Nov 15 16:25:47 2024



AutoFind: Scans 1867, 1868, 1869; Background Corrected with Scan 1859

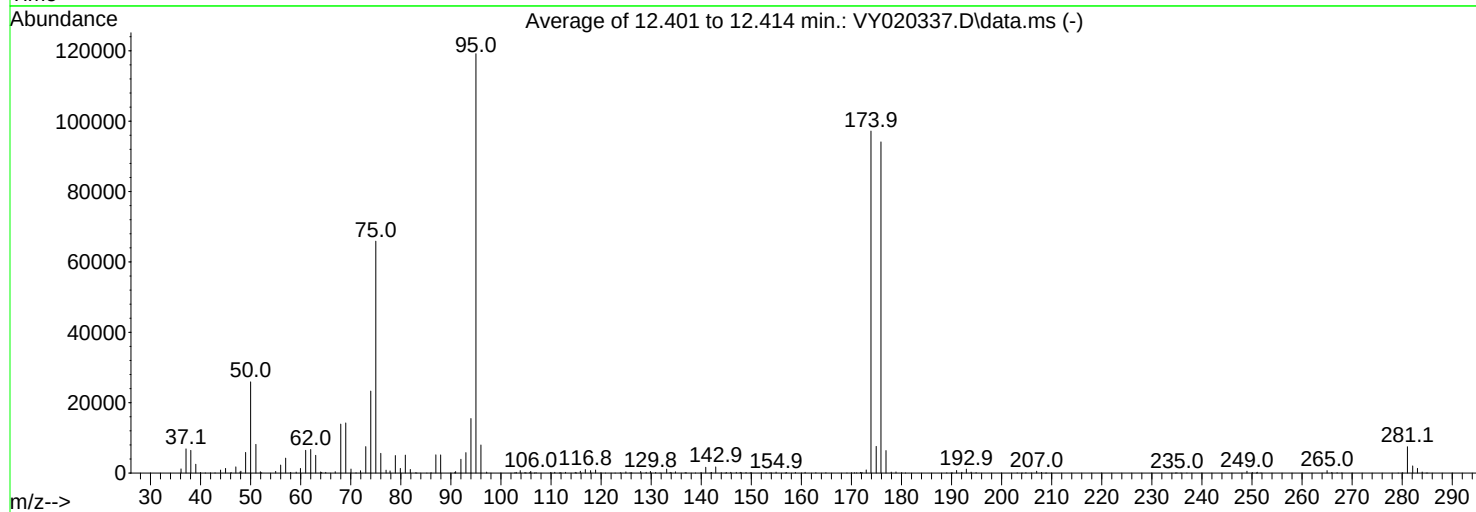
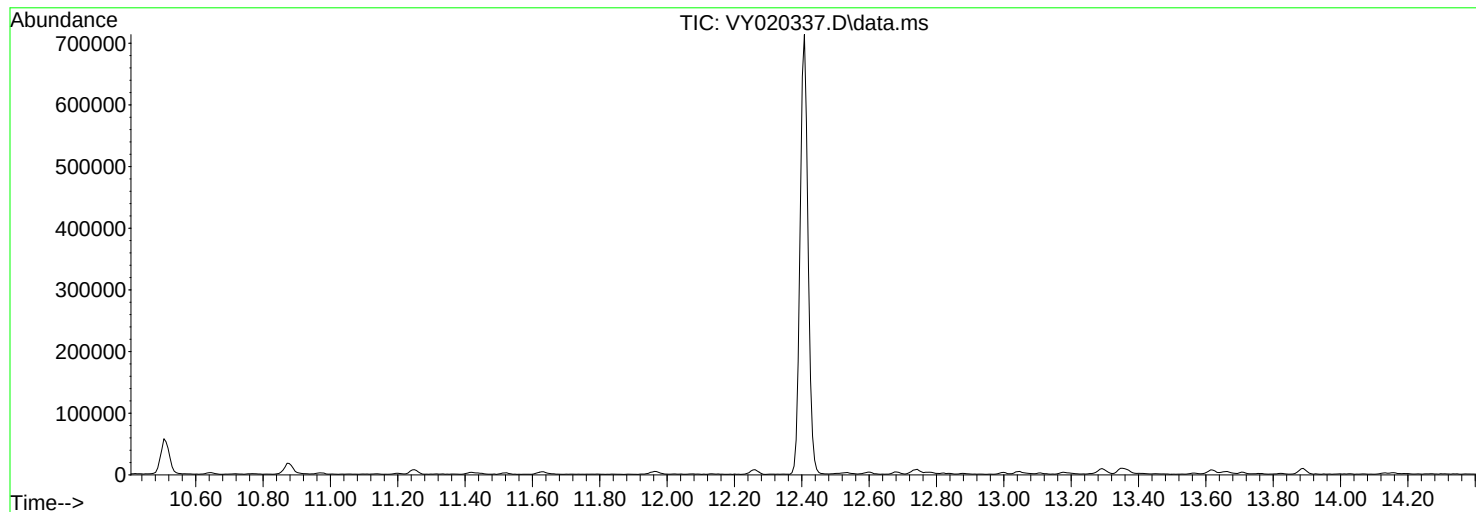
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	13343	PASS
75	95	30	60	49.1	40069	PASS
95	95	100	100	100.0	81573	PASS
96	95	5	9	6.5	5338	PASS
173	174	0.00	2	0.8	585	PASS
174	95	50	100	93.0	75827	PASS
175	174	5	9	7.9	5977	PASS
176	174	95	101	98.9	75008	PASS
177	176	5	9	6.3	4717	PASS

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

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

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



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

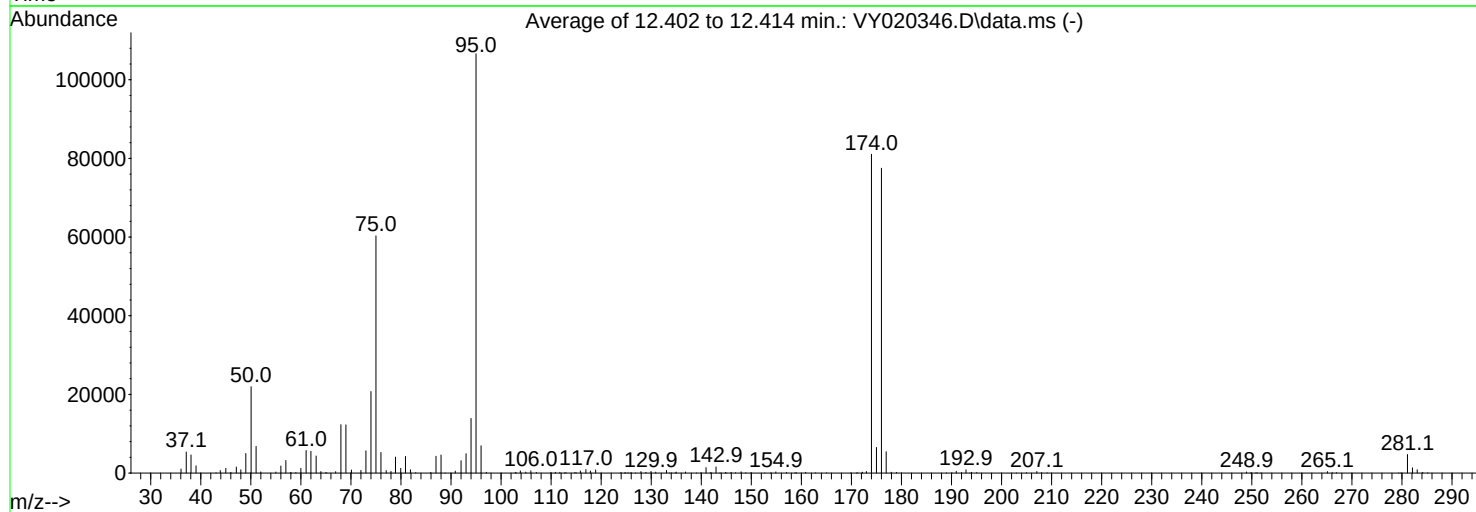
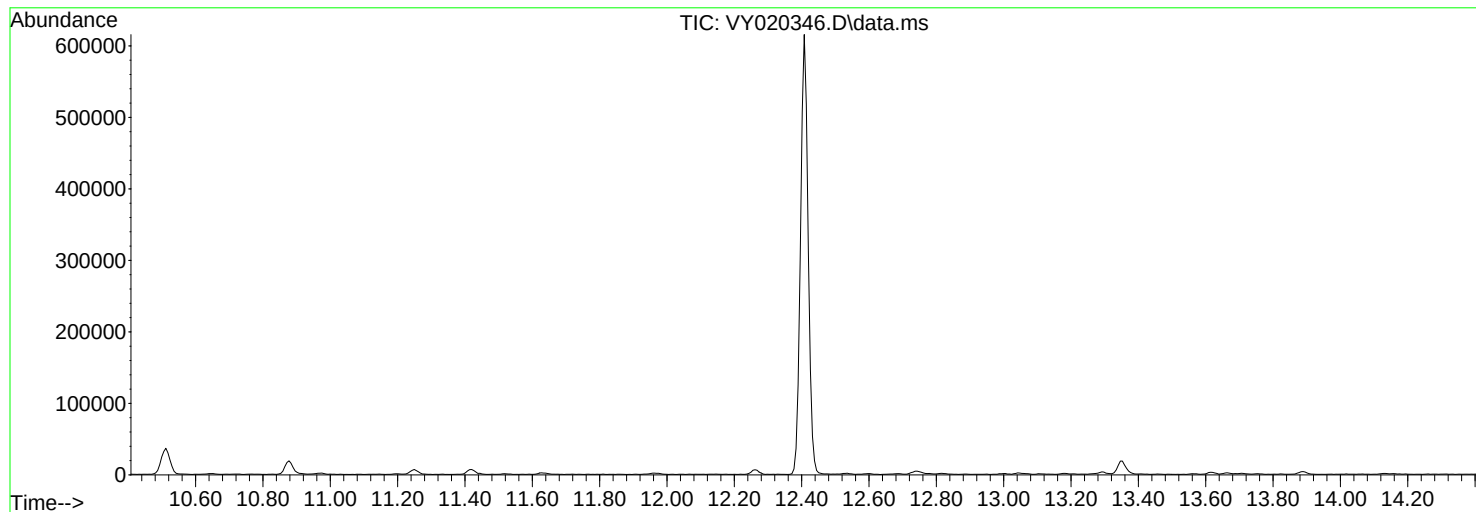
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	25915	PASS
75	95	30	60	55.3	65907	PASS
95	95	100	100	100.0	119168	PASS
96	95	5	9	6.7	7986	PASS
173	174	0.00	2	0.9	895	PASS
174	95	50	100	81.6	97187	PASS
175	174	5	9	7.8	7585	PASS
176	174	95	101	96.8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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020346.D
Acq On : 20 Nov 2024 08:23
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

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



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

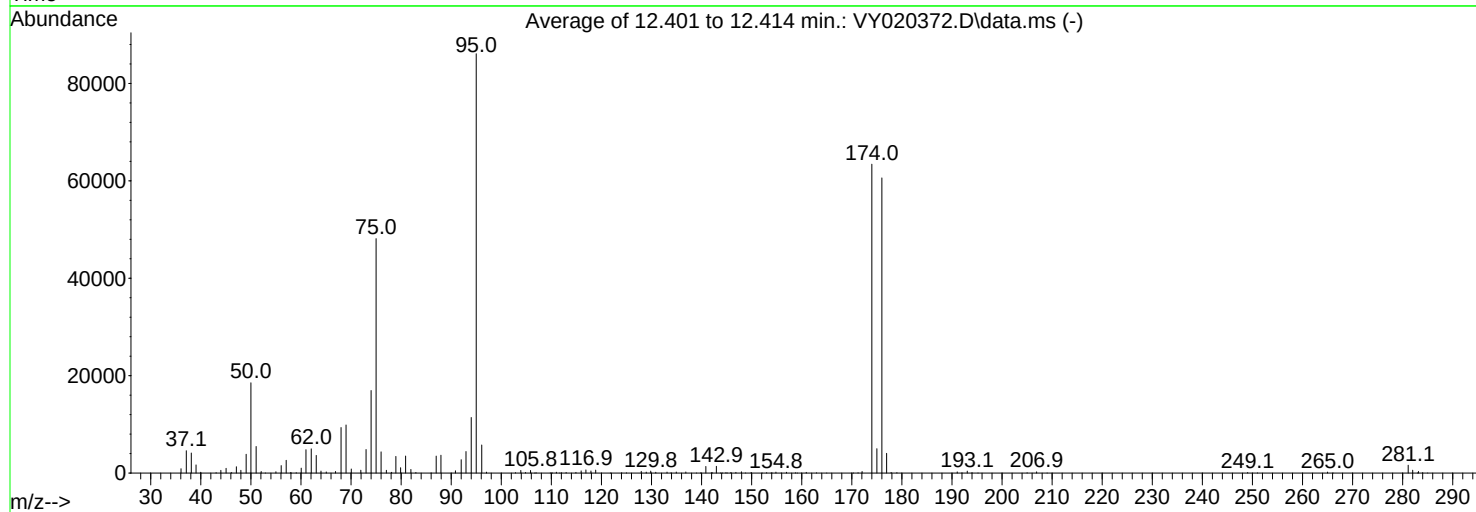
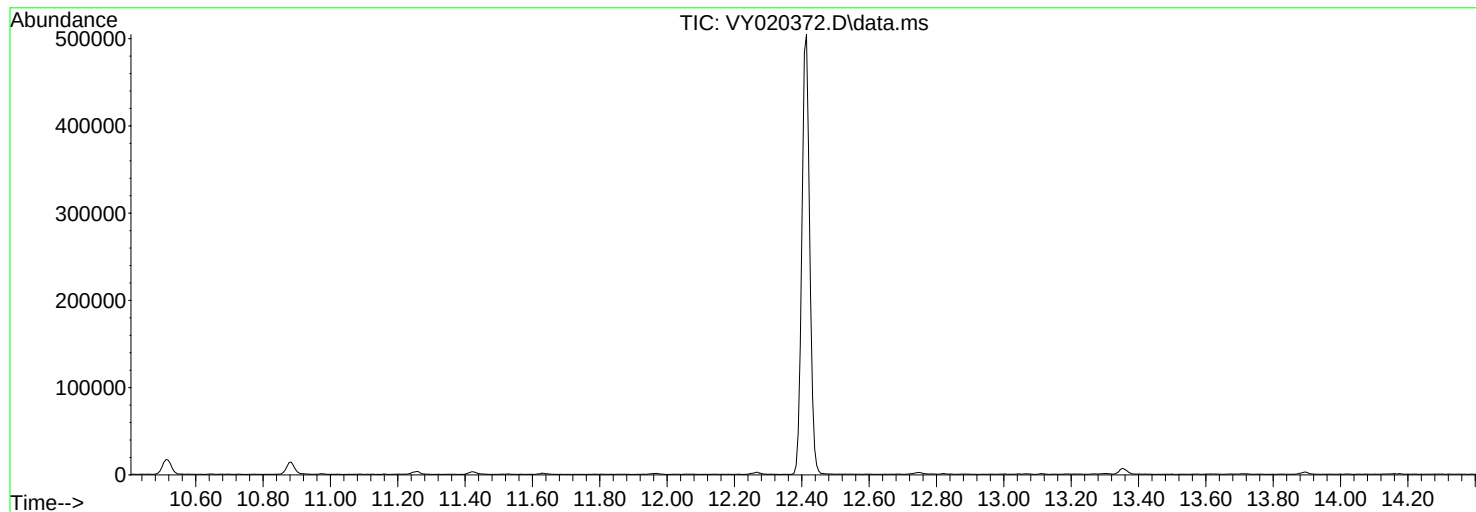
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	21968	PASS
75	95	30	60	56.6	60315	PASS
95	95	100	100	100.0	106611	PASS
96	95	5	9	6.5	6941	PASS
173	174	0.00	2	0.5	403	PASS
174	95	50	100	76.0	81061	PASS
175	174	5	9	8.0	6522	PASS
176	174	95	101	95.6	77504	PASS
177	176	5	9	7.0	5439	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020372.D
Acq On : 21 Nov 2024 08:32
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

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



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1745

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	18537	PASS
75	95	30	60	55.9	48139	PASS
95	95	100	100	100.0	86101	PASS
96	95	5	9	6.7	5771	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	73.7	63419	PASS
175	174	5	9	7.9	5005	PASS
176	174	95	101	95.6	60600	PASS
177	176	5	9	6.7	4051	PASS

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	VD1118SBL01	SDG No.:	P4860
Lab Sample ID:	VD1118SBL01	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:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080059.D	1		11/18/24 10:27	VD111824

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

Report of Analysis

Client:	Tetra Tech		Date Collected:	
Project:	Ocean County Landfill 2024		Date Received:	
Client Sample ID:	VD1118SBL01		SDG No.:	P4860
Lab Sample ID:	VD1118SBL01		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:	RTX-VMS	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080059.D	1		11/18/24 10:27	VD111824

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	49.5		70 (50) - 130 (163)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		70 (54) - 130 (147)	98%	SPK: 50
2037-26-5	Toluene-d8	44.4		70 (58) - 130 (134)	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.2		70 (29) - 130 (146)	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	176000	7.875			
540-36-3	1,4-Difluorobenzene	295000	8.781			
3114-55-4	Chlorobenzene-d5	273000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	122000	13.516			

Report of Analysis

Client:	Tetra Tech		Date Collected:	
Project:	Ocean County Landfill 2024		Date Received:	
Client Sample ID:	VD1118SBL01		SDG No.:	P4860
Lab Sample ID:	VD1118SBL01		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:	RTX-VMS	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080059.D	1		11/18/24 10:27	VD111824

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_D\Data\VD111824\
 Data File : VD080059.D
 Acq On : 18 Nov 2024 10:27
 Operator : RP/MD
 Sample : VD1118SBL01
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1118SBL01

Quant Time: Nov 19 04:43:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	175706	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	294729	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	273326	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	122131	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	89573	49.513	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	99.020%
35) Dibromofluoromethane	7.804	113	95998	48.941	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.880%
50) Toluene-d8	10.269	98	328392	44.420	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	88.840%
62) 4-Bromofluorobenzene	12.575	95	99895	41.185	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	82.360%

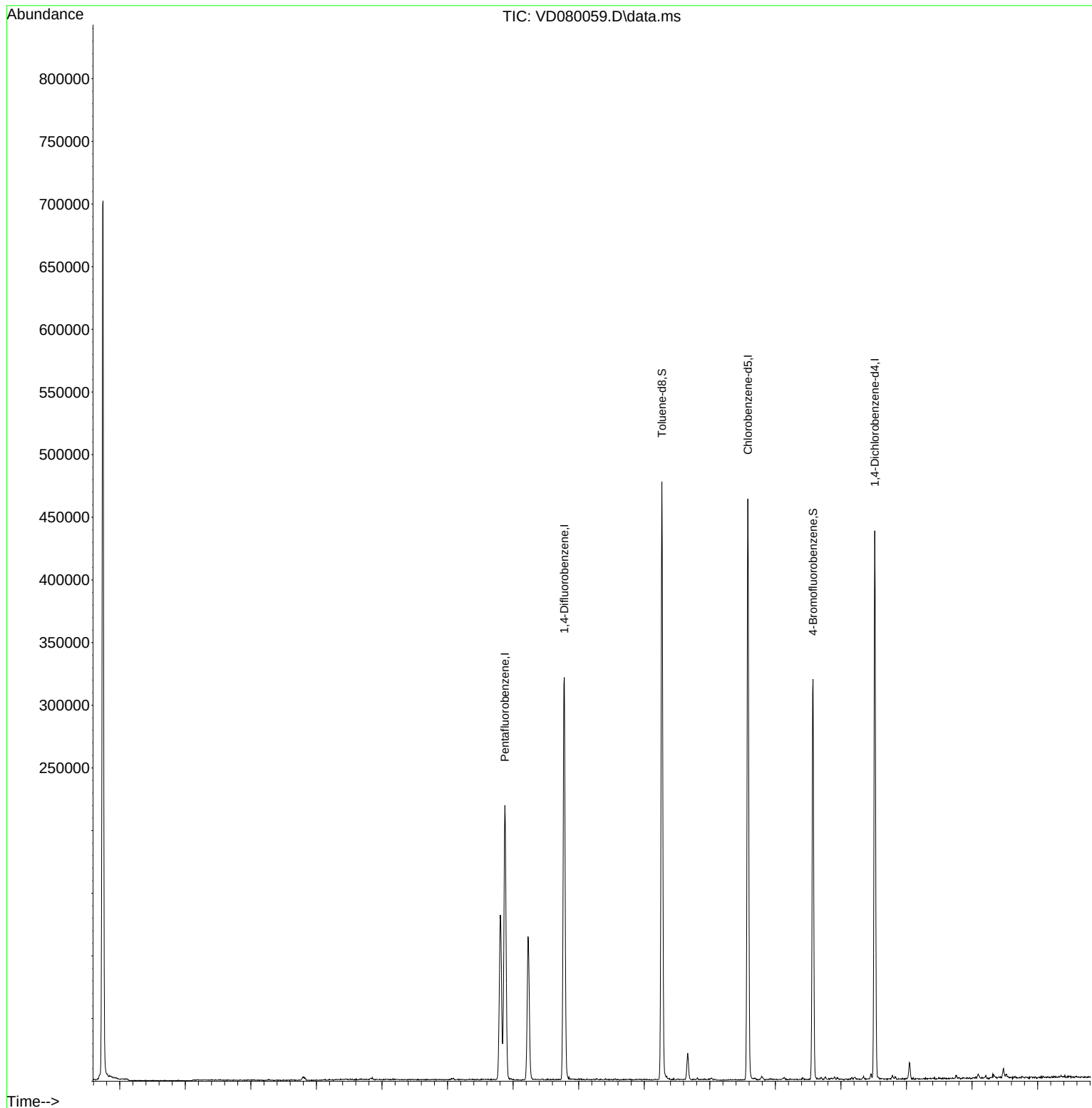
Target Compounds	Qvalue

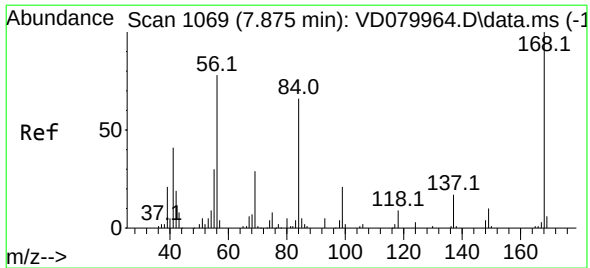
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080059.D
Acq On : 18 Nov 2024 10:27
Operator : RP/MD
Sample : VD1118SBL01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD1118SBL01

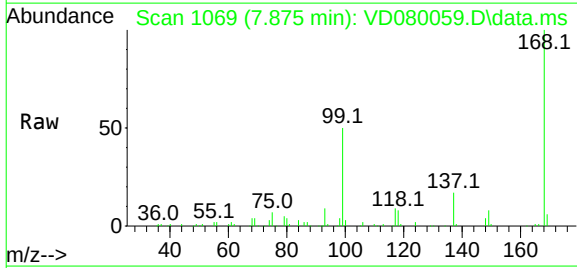
Quant Time: Nov 19 04:43:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



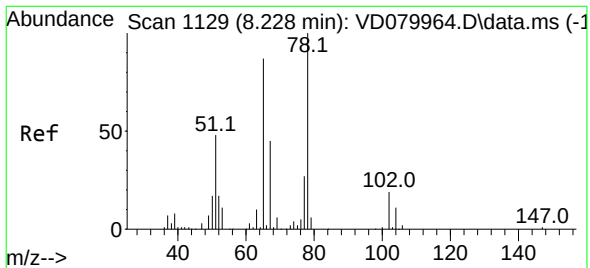
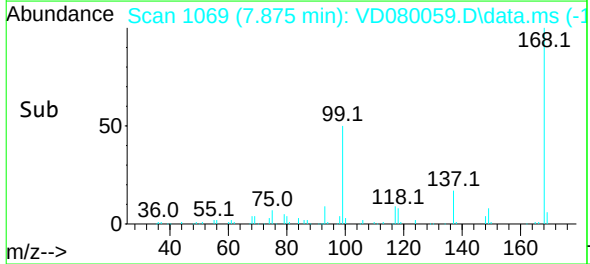
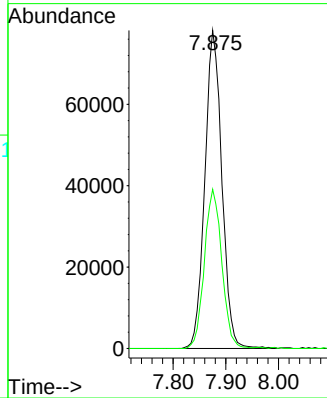


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

Instrument :
MSVOA_D
ClientSampleId :
VD1118SBL01

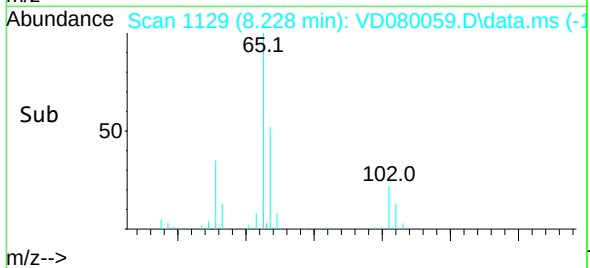
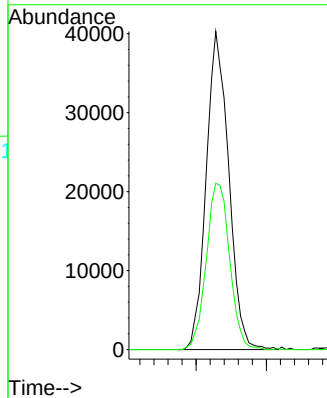
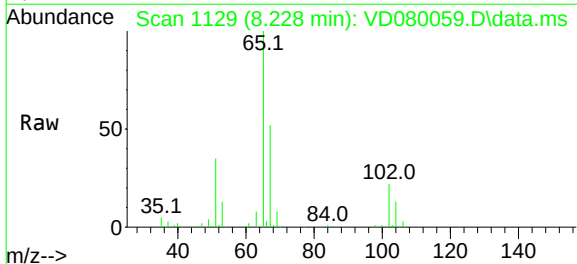


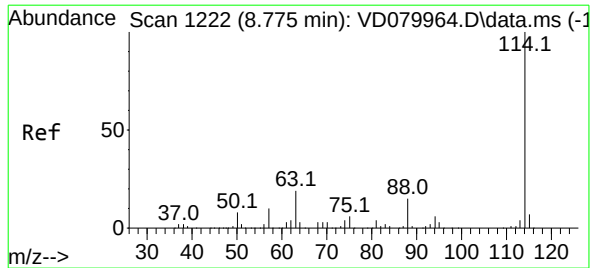
Tgt Ion:168 Resp: 175706
Ion Ratio Lower Upper
168 100
99 50.0 46.0 69.0



#33
1,2-Dichloroethane-d4
Concen: 49.513 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

Tgt Ion: 65 Resp: 89573
Ion Ratio Lower Upper
65 100
67 54.3 0.0 109.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1222

Delta R.T. 0.006 min

Lab File: VD080059.D

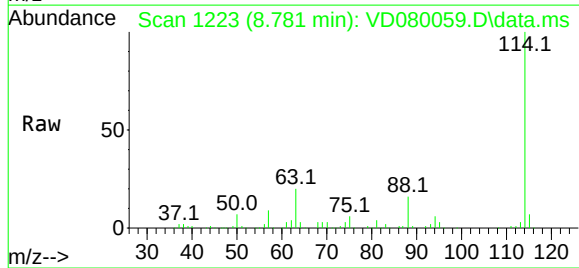
Acq: 18 Nov 2024 10:27

Instrument :

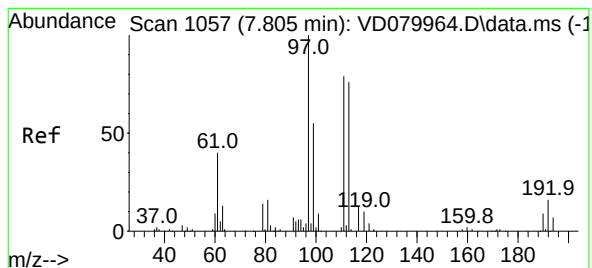
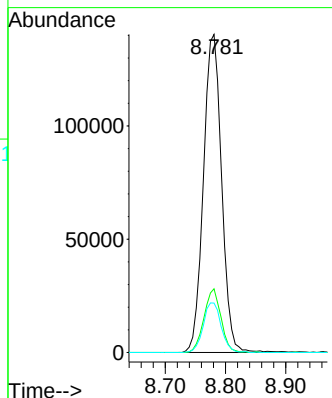
MSVOA_D

ClientSampleId :

VD1118SBL01



Tgt Ion:	114	Resp:	294729
Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	38.8
88	15.5	0.0	30.6



#35

Dibromofluoromethane

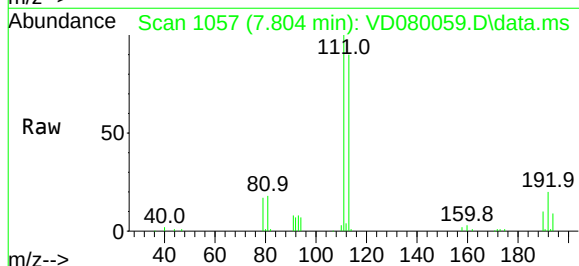
Concen: 48.941 ug/l

RT: 7.804 min Scan# 1057

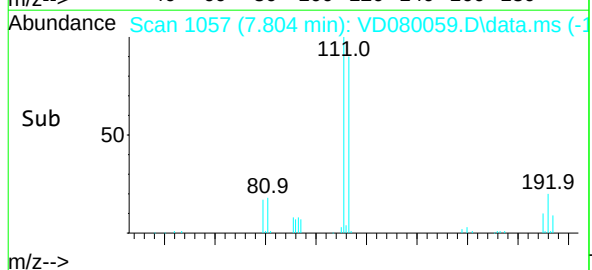
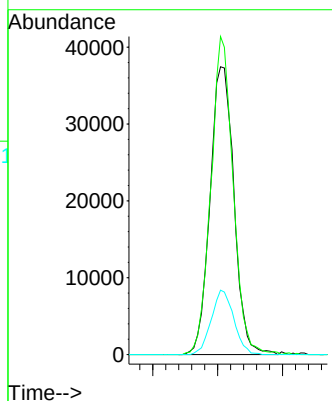
Delta R.T. -0.001 min

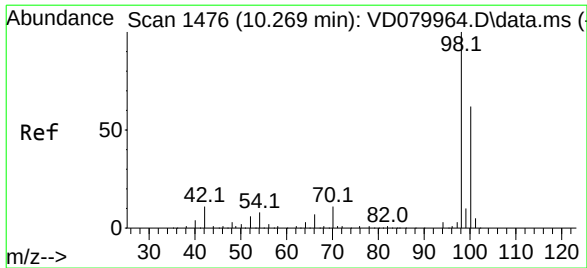
Lab File: VD080059.D

Acq: 18 Nov 2024 10:27



Tgt Ion:	113	Resp:	95998
Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.5	123.7
192	21.1	16.6	25.0





#50

Toluene-d8

Concen: 44.420 ug/l

RT: 10.269 min Scan# 14

Delta R.T. 0.000 min

Lab File: VD080059.D

Acq: 18 Nov 2024 10:27

Instrument :

MSVOA_D

ClientSampleId :

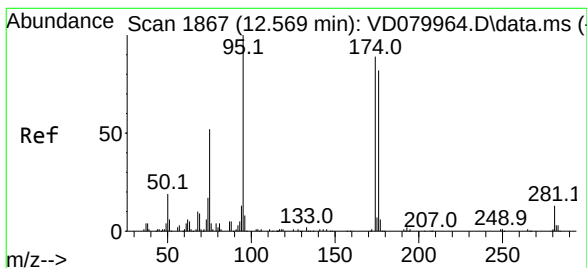
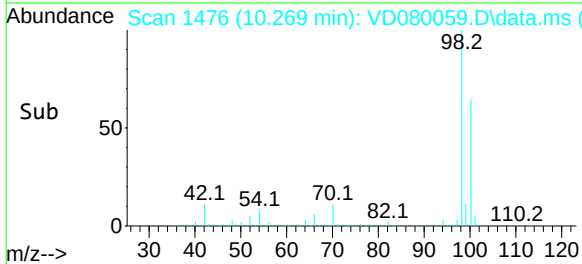
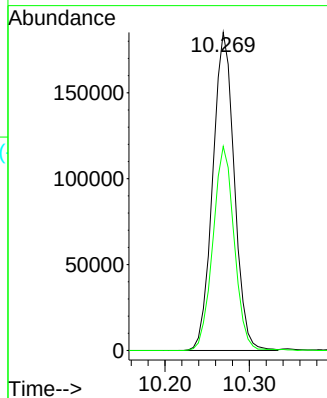
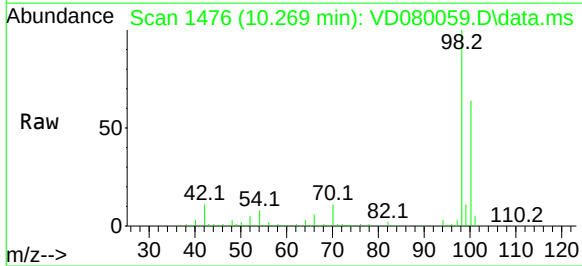
VD1118SBL01

Tgt Ion: 98 Resp: 328392

Ion Ratio Lower Upper

98 100

100 63.5 50.2 75.4



#62

4-Bromofluorobenzene

Concen: 41.185 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. 0.006 min

Lab File: VD080059.D

Acq: 18 Nov 2024 10:27

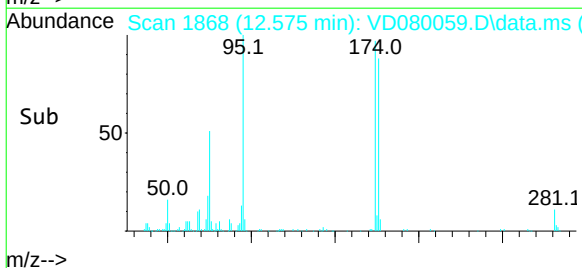
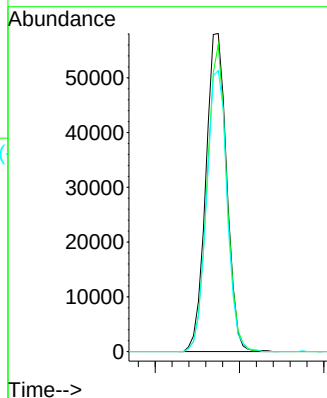
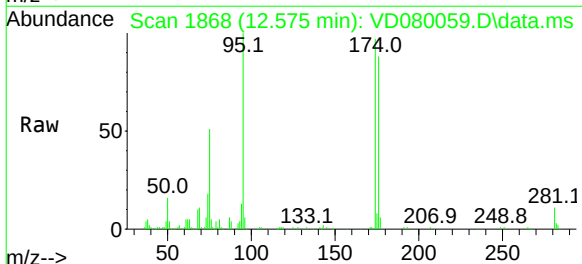
Tgt Ion: 95 Resp: 99895

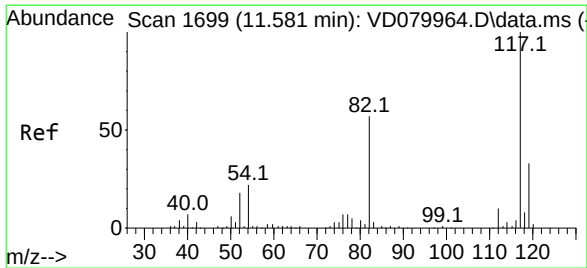
Ion Ratio Lower Upper

95 100

174 90.8 0.0 173.4

176 86.6 0.0 166.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.581 min Scan# 1699

Delta R.T. -0.000 min

Lab File: VD080059.D

Acq: 18 Nov 2024 10:27

Instrument :

MSVOA_D

ClientSampleId :

VD1118SBL01

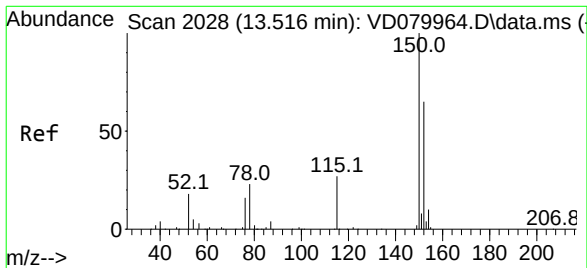
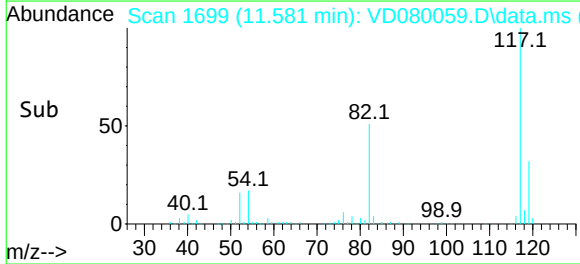
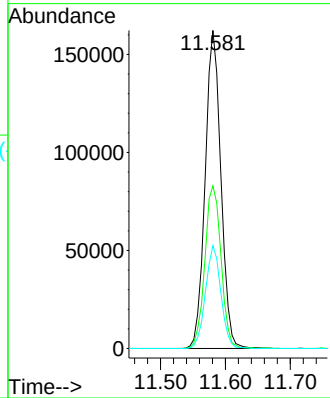
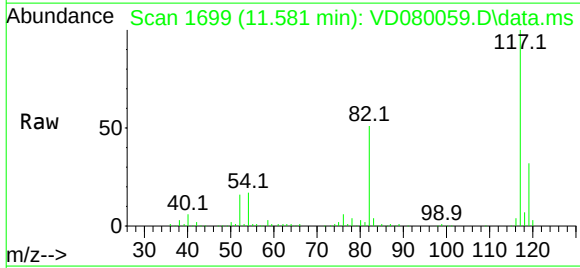
Tgt Ion:117 Resp: 273326

Ion Ratio Lower Upper

117 100

82 51.1 45.8 68.6

119 32.3 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. -0.000 min

Lab File: VD080059.D

Acq: 18 Nov 2024 10:27

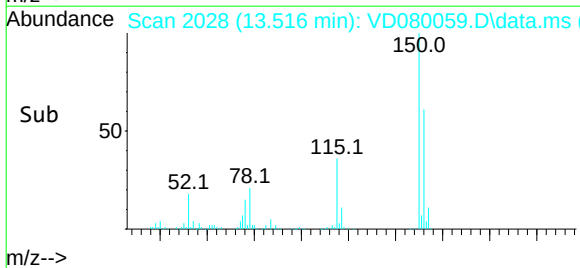
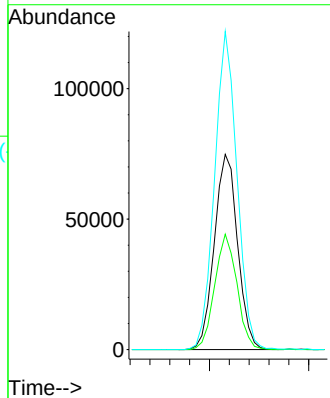
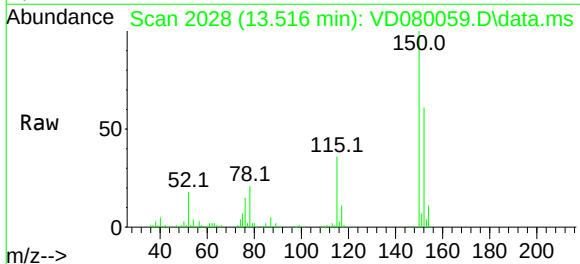
Tgt Ion:152 Resp: 122131

Ion Ratio Lower Upper

152 100

115 56.3 28.9 86.8

150 156.9 0.0 354.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080059.D
Acq On : 18 Nov 2024 10:27
Operator : RP/MD
Sample : VD1118SBL01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD1118SBL01

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_D\Method\82D111524S.M
Title : SW846 8260

Signal : TIC: VD080059.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.746	19	27	37	rBV	697362	1120192	100.00%	19.234%
2	7.804	1046	1057	1063	rBV	131431	319677	28.54%	5.489%
3	7.875	1063	1069	1081	rVB	218603	499658	44.60%	8.579%
4	8.228	1120	1129	1139	rBV2	114221	257654	23.00%	4.424%
5	8.781	1213	1223	1234	rBV	321152	670848	59.89%	11.519%
6	10.269	1467	1476	1487	rBV	477239	847680	75.67%	14.555%
7	10.663	1537	1543	1553	rVB2	21312	38245	3.41%	0.657%
8	11.581	1691	1699	1710	rBV	463672	794131	70.89%	13.635%
9	12.575	1861	1868	1875	rBV	319151	533516	47.63%	9.161%
10	13.516	2021	2028	2035	rBV	436399	707754	63.18%	12.152%
11	14.045	2111	2118	2124	rVB2	13225	22016	1.97%	0.378%
12	15.481	2357	2362	2366	rBV4	7654	12704	1.13%	0.218%

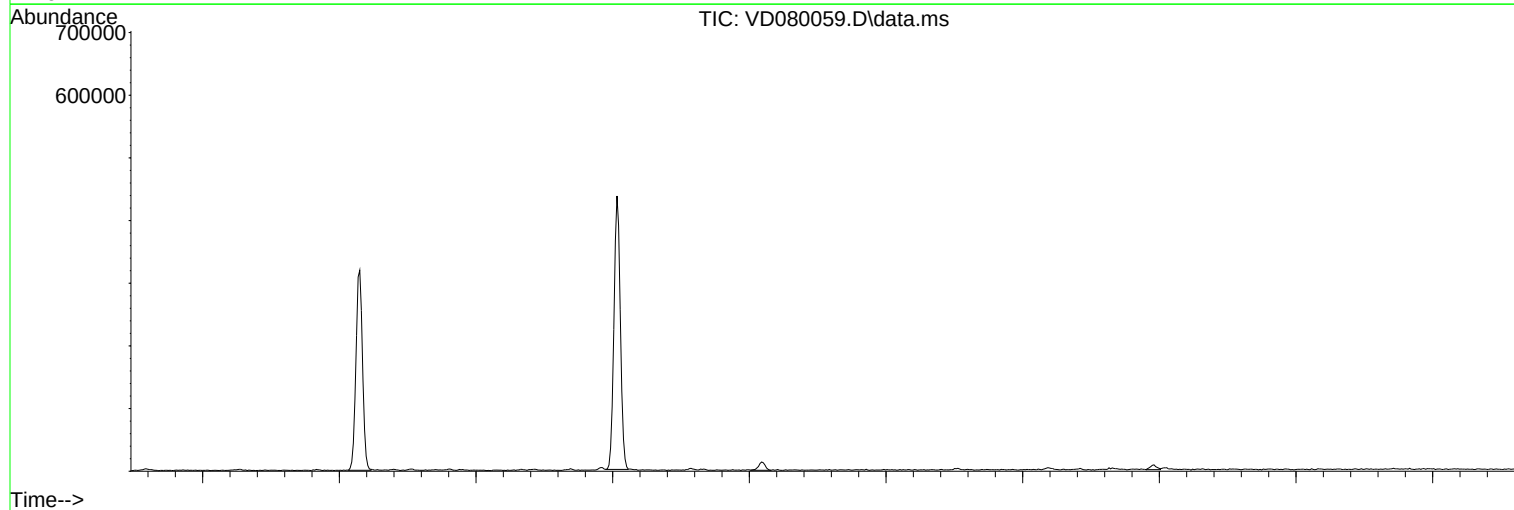
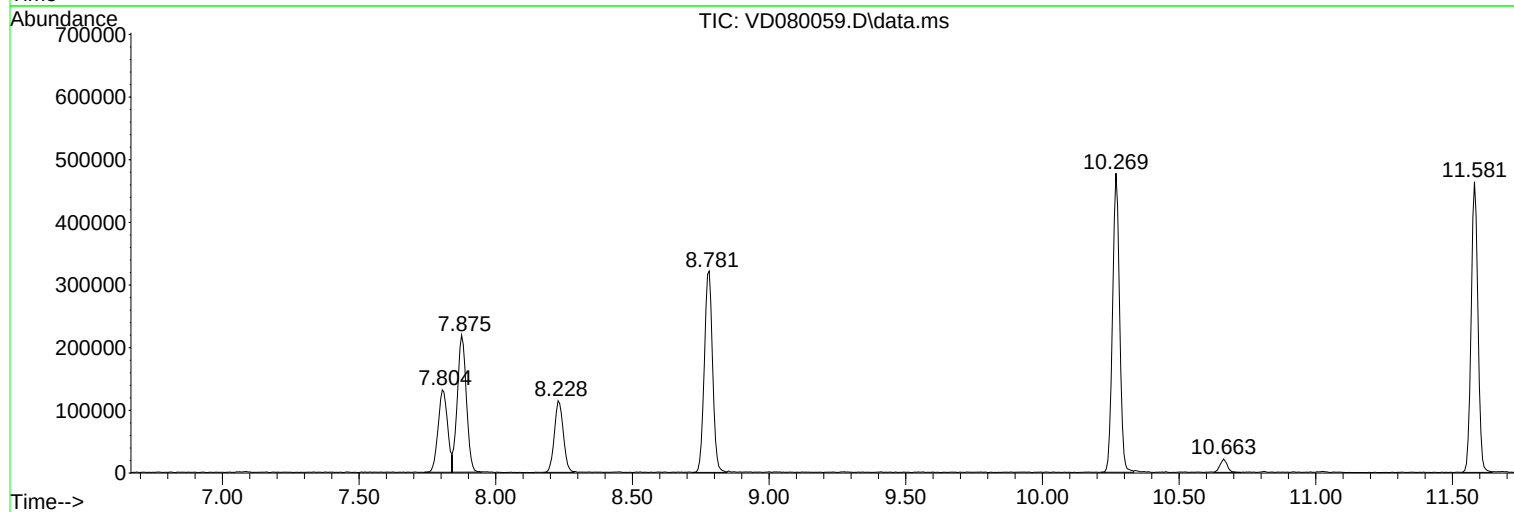
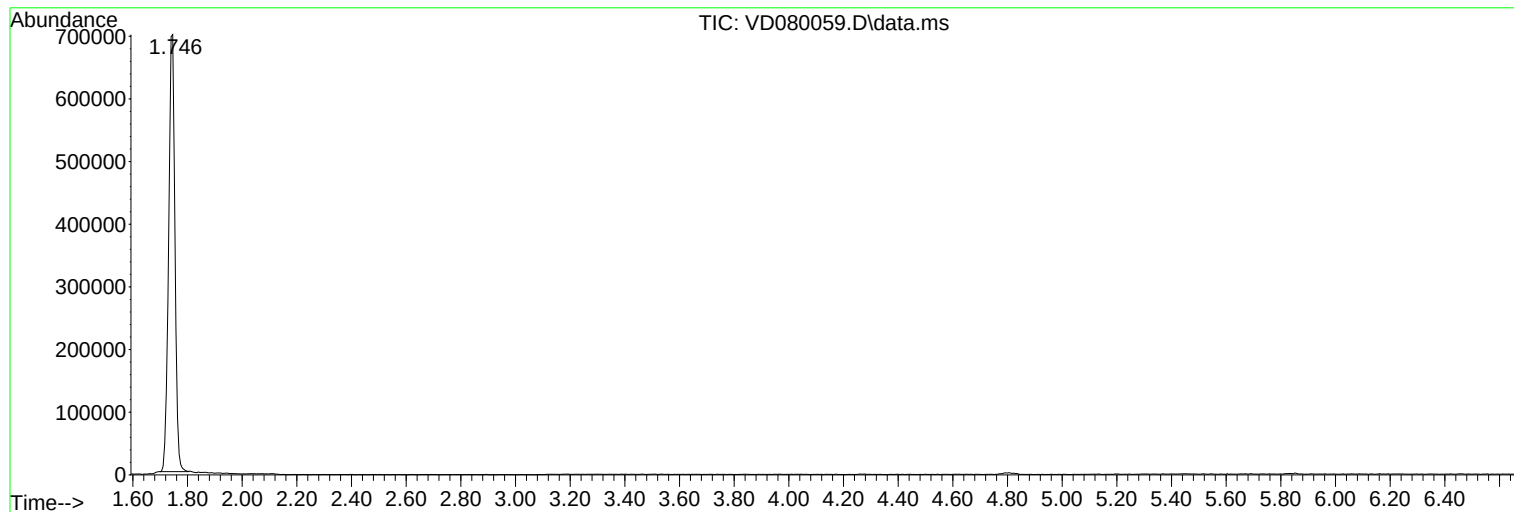
Sum of corrected areas: 5824075

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080059.D
Acq On : 18 Nov 2024 10:27
Operator : RP/MD
Sample : VD1118SBL01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD1118SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080059.D
Acq On : 18 Nov 2024 10:27
Operator : RP/MD
Sample : VD1118SBL01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD1118SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.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_D\Data\VD111824\
Data File : VD080059.D
Acq On : 18 Nov 2024 10:27
Operator : RP/MD
Sample : VD1118SBL01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD1118SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	VY1120SBL01	SDG No.:	P4860
Lab Sample ID:	VY1120SBL01	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
VY020348.D	1		11/20/24 10:07	VY112024

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

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	VY1120SBL01	SDG No.:	P4860
Lab Sample ID:	VY1120SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
	ID :	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020348.D	1		11/20/24 10:07	VY112024

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	53.2		70 (50) - 130 (163)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		70 (54) - 130 (147)	97%	SPK: 50
2037-26-5	Toluene-d8	48.1		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		70 (29) - 130 (146)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	161000	7.713			
540-36-3	1,4-Difluorobenzene	313000	8.616			
3114-55-4	Chlorobenzene-d5	283000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	104000	13.346			

Report of Analysis

Client:	Tetra Tech		Date Collected:	
Project:	Ocean County Landfill 2024		Date Received:	
Client Sample ID:	VY1120SBL01		SDG No.:	P4860
Lab Sample ID:	VY1120SBL01		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
VY020348.D	1		11/20/24 10:07	VY112024

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\VY112024\
 Data File : VY020348.D
 Acq On : 20 Nov 2024 10:07
 Operator : SY/MD
 Sample : VY1120SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1120SBL01

Quant Time: Nov 21 00:42:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	160712	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	312610	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	282610	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	104132	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	98287	53.232	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	106.460%
35) Dibromofluoromethane	7.634	113	96868	48.324	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	96.640%
50) Toluene-d8	10.109	98	379920	48.113	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.220%
62) 4-Bromofluorobenzene	12.408	95	122604	48.299	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	96.600%

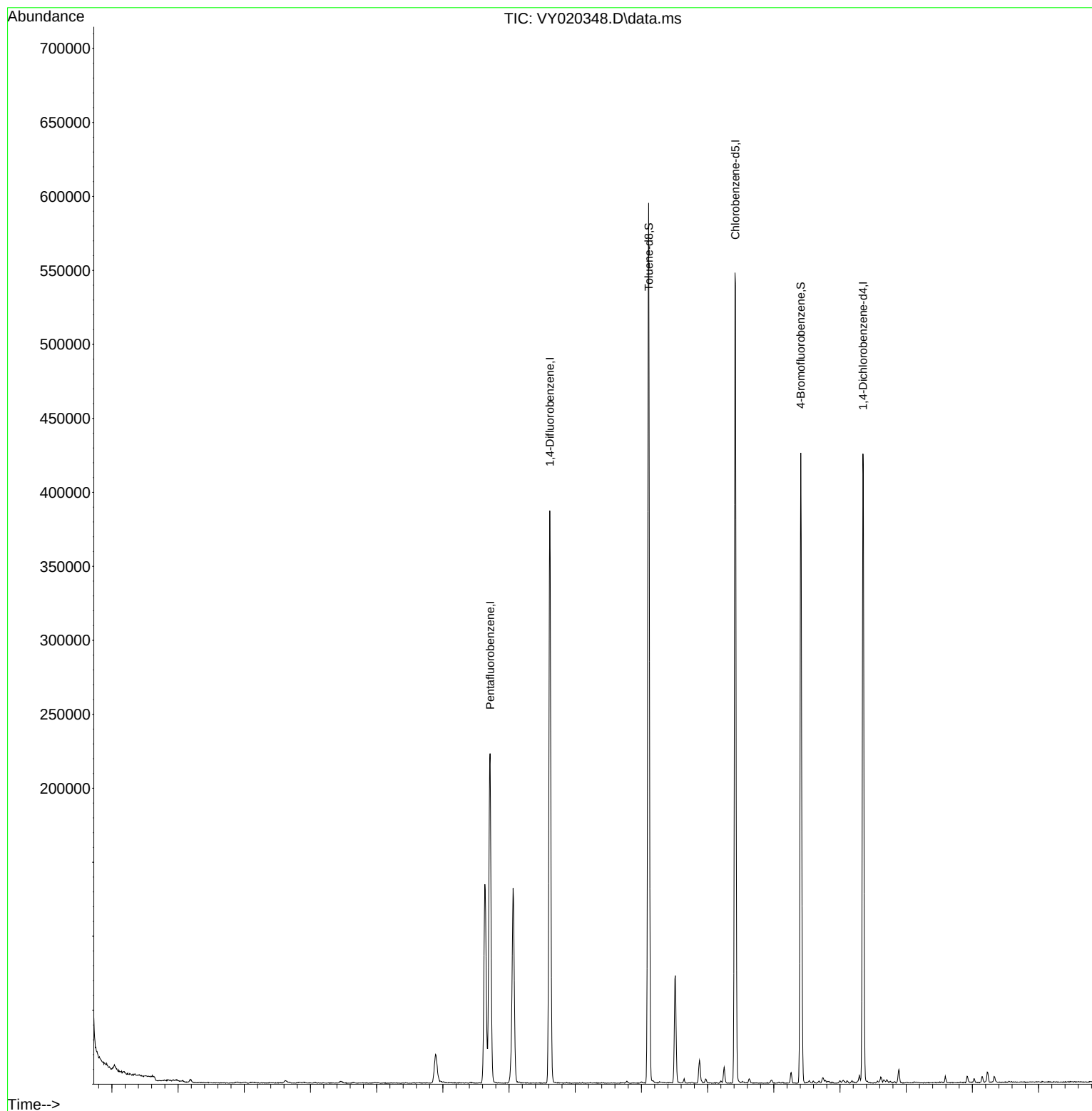
Target Compounds	Qvalue

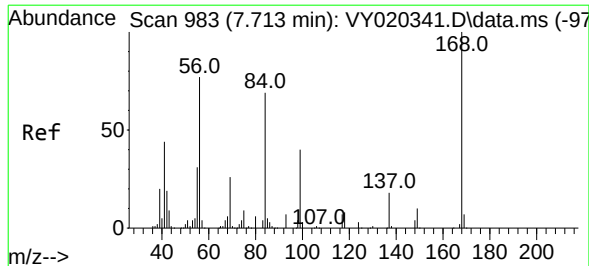
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020348.D
Acq On : 20 Nov 2024 10:07
Operator : SY/MD
Sample : VY1120SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1120SBL01

Quant Time: Nov 21 00:42:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

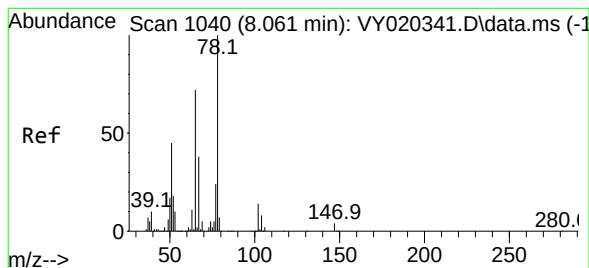
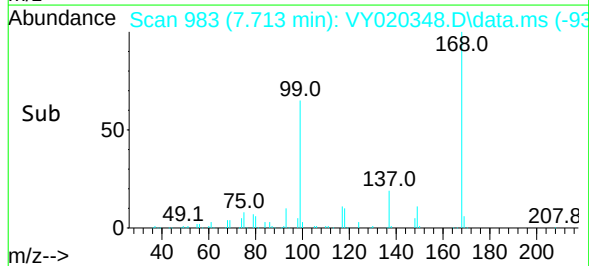
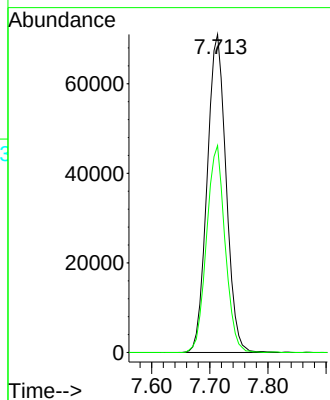
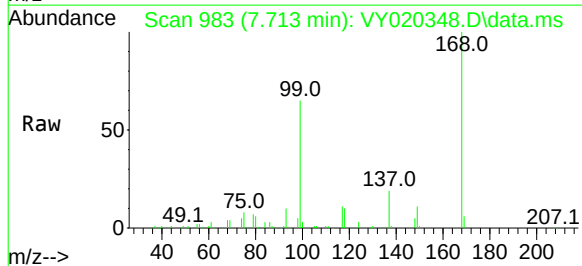




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020348.D
Acq: 20 Nov 2024 10:07

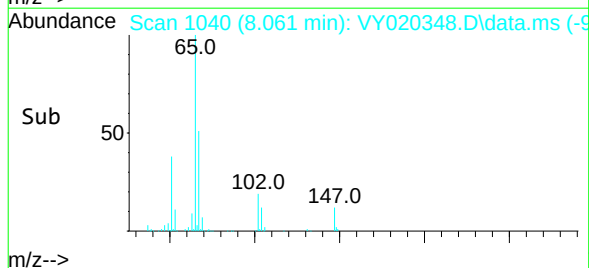
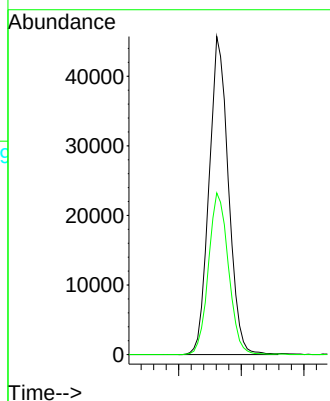
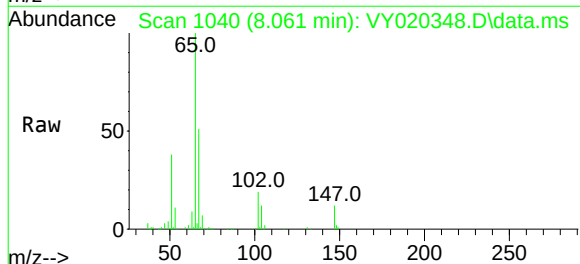
Instrument :
MSVOA_Y
ClientSampleId :
VY1120SBL01

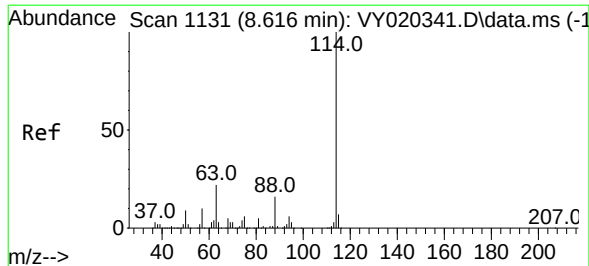
Tgt Ion:168 Resp: 160712
Ion Ratio Lower Upper
168 100
99 65.0 46.6 69.8



#33
1,2-Dichloroethane-d4
Concen: 53.232 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020348.D
Acq: 20 Nov 2024 10:07

Tgt Ion: 65 Resp: 98287
Ion Ratio Lower Upper
65 100
67 52.4 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY020348.D

Acq: 20 Nov 2024 10:07

Instrument :

MSVOA_Y

ClientSampleId :

VY1120SBL01

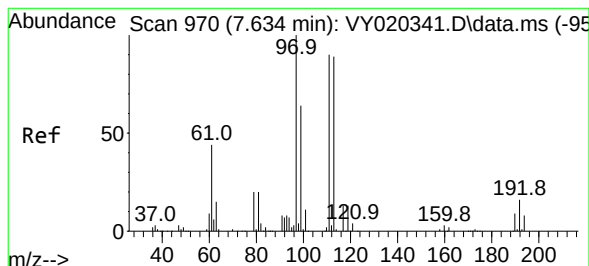
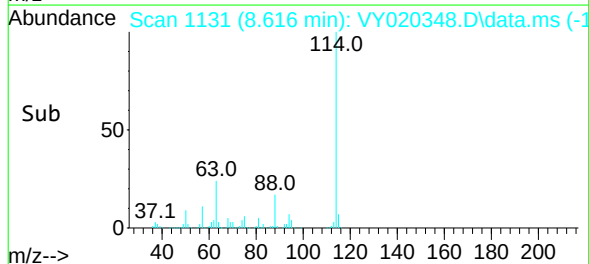
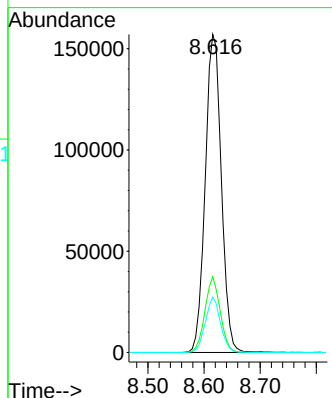
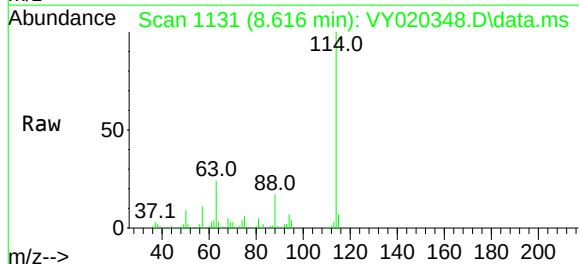
Tgt Ion:114 Resp: 312610

Ion Ratio Lower Upper

114 100

63 23.8 0.0 44.8

88 17.4 0.0 32.0



#35

Dibromofluoromethane

Concen: 48.324 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY020348.D

Acq: 20 Nov 2024 10:07

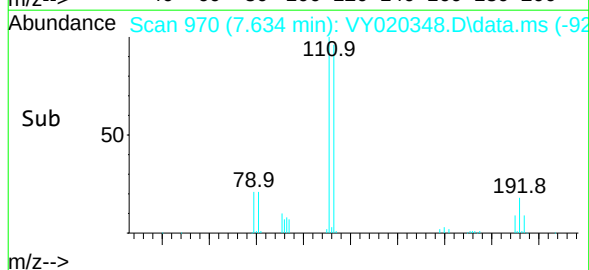
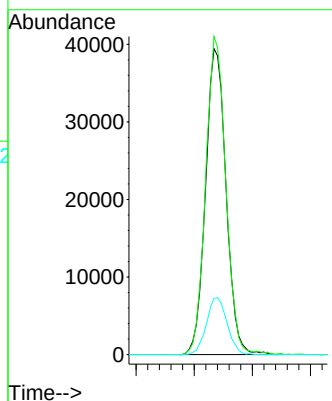
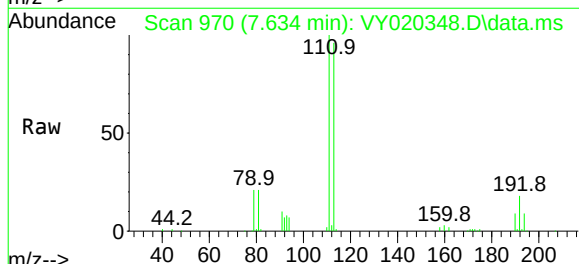
Tgt Ion:113 Resp: 96868

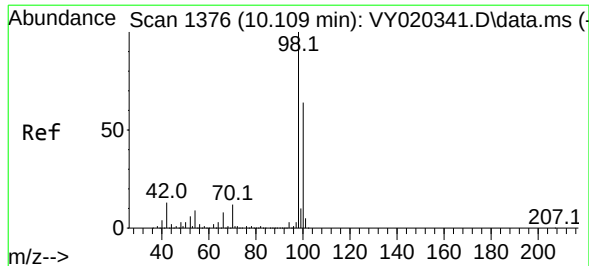
Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

192 18.7 15.1 22.7





#50

Toluene-d8

Concen: 48.113 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY020348.D

Acq: 20 Nov 2024 10:07

Instrument :

MSVOA_Y

ClientSampleId :

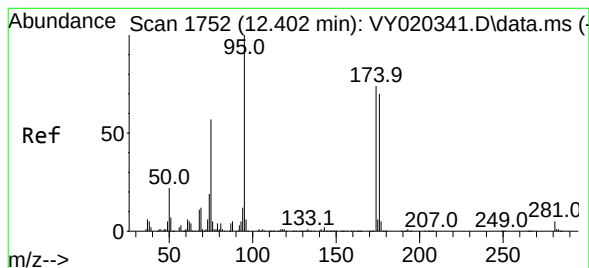
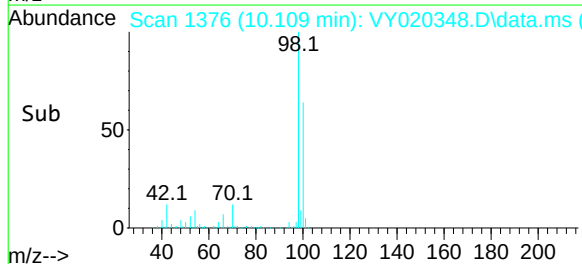
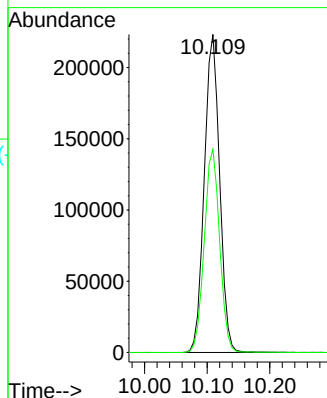
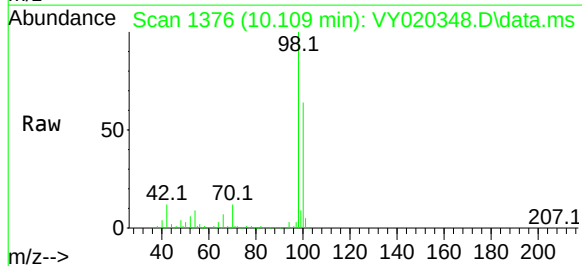
VY1120SBL01

Tgt Ion: 98 Resp: 379920

Ion Ratio Lower Upper

98 100

100 64.4 51.3 76.9



#62

4-Bromofluorobenzene

Concen: 48.299 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VY020348.D

Acq: 20 Nov 2024 10:07

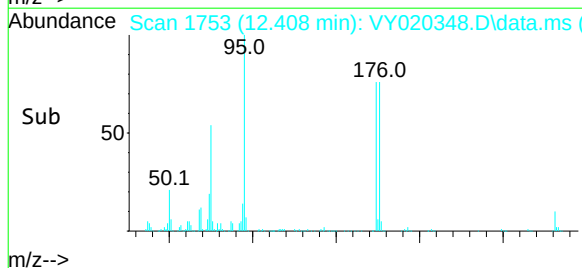
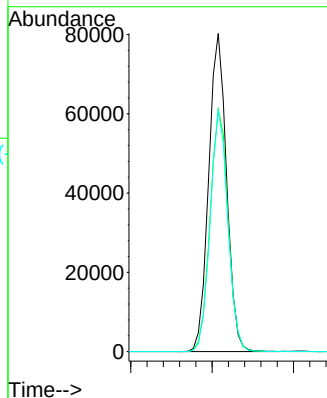
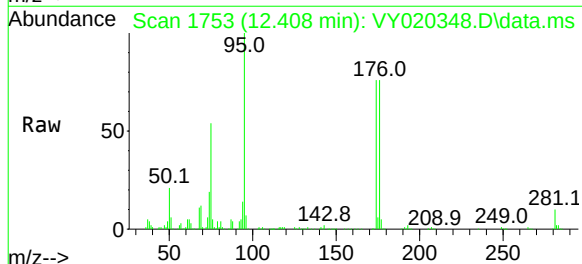
Tgt Ion: 95 Resp: 122604

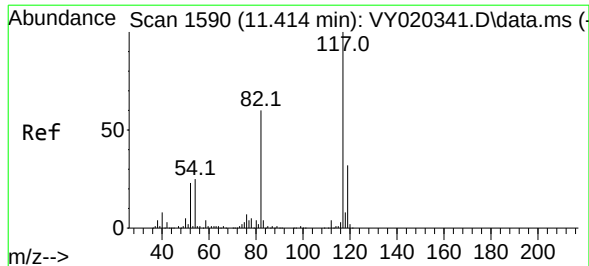
Ion Ratio Lower Upper

95 100

174 76.7 0.0 156.8

176 74.4 0.0 152.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1590

Delta R.T. 0.006 min

Lab File: VY020348.D

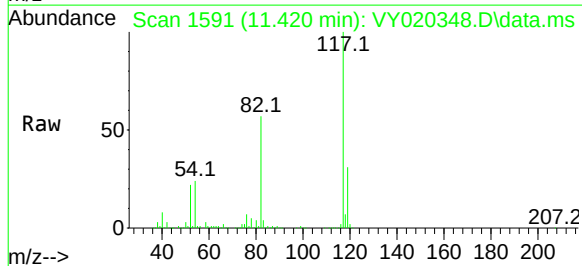
Acq: 20 Nov 2024 10:07

Instrument :

MSVOA_Y

ClientSampleId :

VY1120SBL01



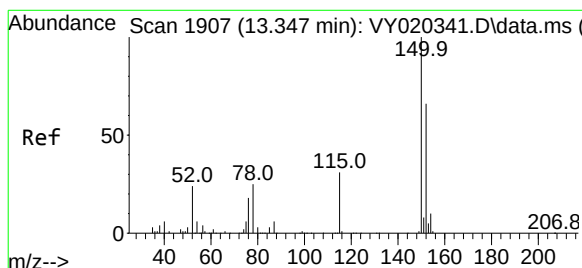
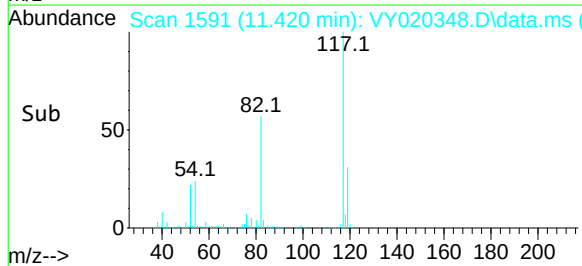
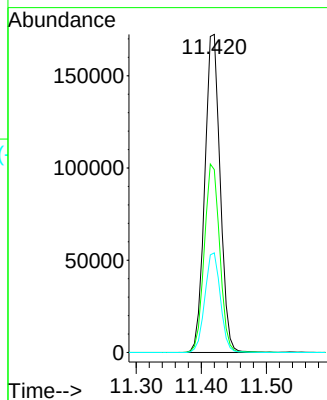
Tgt Ion:117 Resp: 282610

Ion Ratio Lower Upper

117 100

82 57.5 48.2 72.4

119 31.3 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY020348.D

Acq: 20 Nov 2024 10:07

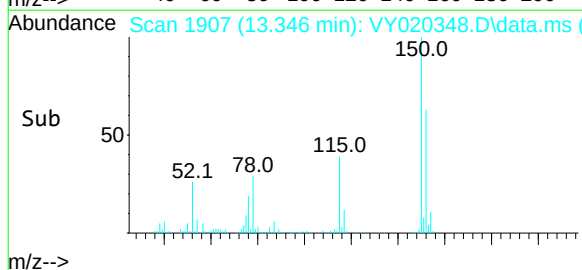
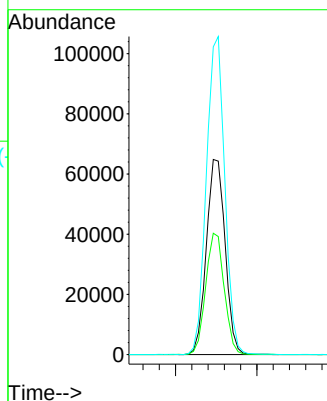
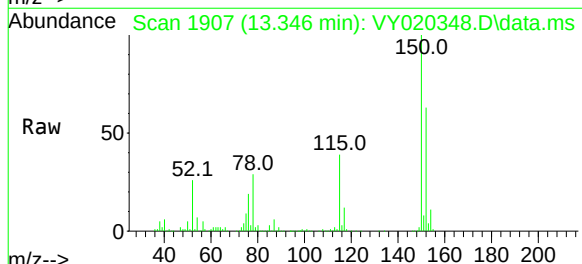
Tgt Ion:152 Resp: 104132

Ion Ratio Lower Upper

152 100

115 61.2 30.0 90.0

150 159.5 0.0 348.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
 Data File : VY020348.D
 Acq On : 20 Nov 2024 10:07
 Operator : SY/MD
 Sample : VY1120SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1120SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Title : SW846 8260

Signal : TIC: VY020348.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.890	836	848	858	rBV	19458	61951	6.02%	1.128%
2	7.634	961	970	977	rBV	134437	332264	32.28%	6.052%
3	7.713	977	983	993	rVB	222162	498269	48.41%	9.076%
4	8.061	1026	1040	1050	rBV2	131688	316038	30.70%	5.757%
5	8.616	1122	1131	1143	rBV	386949	758752	73.71%	13.821%
6	10.109	1367	1376	1385	rBV	594946	1029315	100.00%	18.750%
7	10.512	1435	1442	1449	rBV	72544	133669	12.99%	2.435%
8	10.877	1496	1502	1511	rBV	15267	28757	2.79%	0.524%
9	11.249	1558	1563	1571	rVB3	10748	17399	1.69%	0.317%
10	11.414	1582	1590	1604	rBV	547726	904377	87.86%	16.474%
11	12.261	1721	1729	1734	rBV2	7109	11177	1.09%	0.204%
12	12.408	1746	1753	1763	rVB2	425994	695263	67.55%	12.665%
13	13.346	1901	1907	1917	rVB	424383	674121	65.49%	12.280%
14	13.889	1989	1996	2002	rBV2	9229	15808	1.54%	0.288%
15	15.224	2211	2215	2222	rVV3	7229	12640	1.23%	0.230%

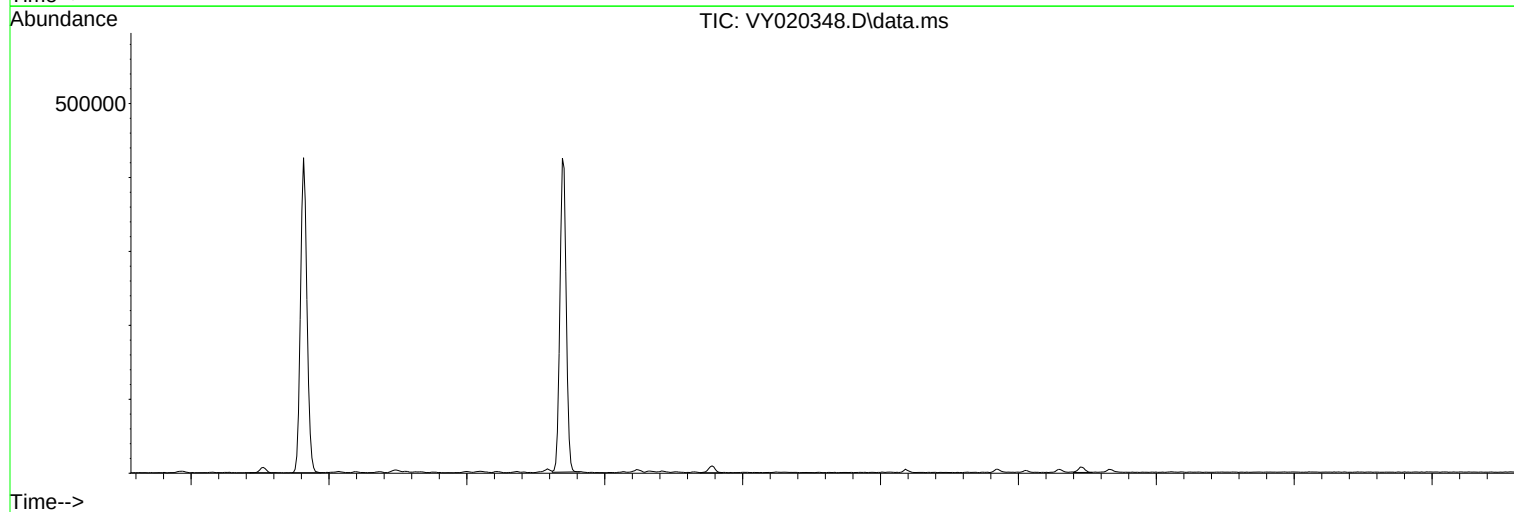
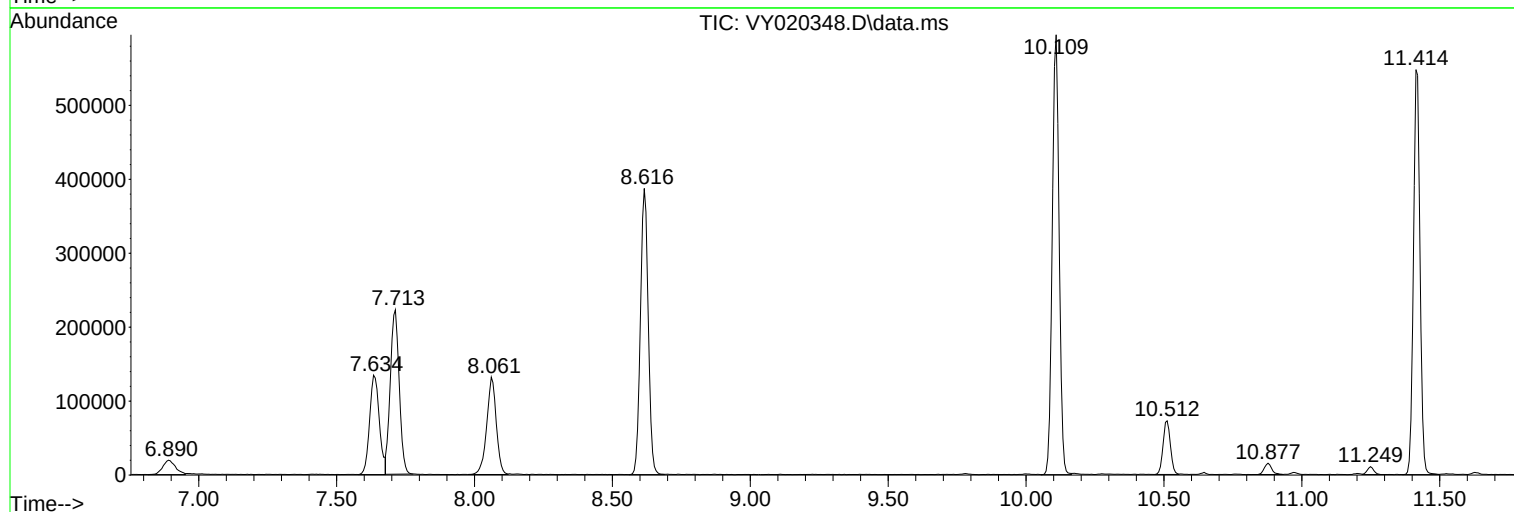
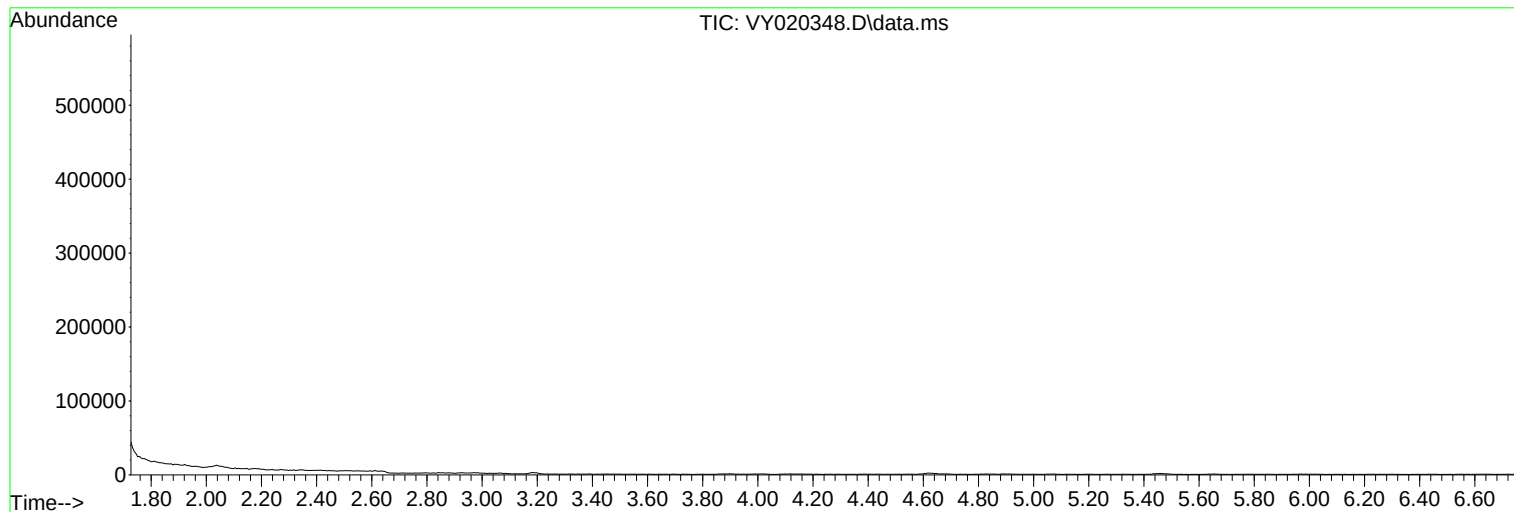
Sum of corrected areas: 5489800

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020348.D
Acq On : 20 Nov 2024 10:07
Operator : SY/MD
Sample : VY1120SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1120SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020348.D
Acq On : 20 Nov 2024 10:07
Operator : SY/MD
Sample : VY1120SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1120SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.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\VY112024\
Data File : VY020348.D
Acq On : 20 Nov 2024 10:07
Operator : SY/MD
Sample : VY1120SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1120SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	VY1121SBL01	SDG No.:	P4860
Lab Sample ID:	VY1121SBL01	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
VY020374.D	1		11/21/24 09:59	VY112124

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

Report of Analysis

Client:	Tetra Tech			Date Collected:	
Project:	Ocean County Landfill 2024			Date Received:	
Client Sample ID:	VY1121SBL01			SDG No.:	P4860
Lab Sample ID:	VY1121SBL01			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
VY020374.D	1		11/21/24 09:59	VY112124

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	51.9		70 (50) - 130 (163)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		70 (54) - 130 (147)	97%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		70 (29) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	140000	7.713			
540-36-3	1,4-Difluorobenzene	271000	8.616			
3114-55-4	Chlorobenzene-d5	245000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	89000	13.353			

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	VY1121SBL01	SDG No.:	P4860
Lab Sample ID:	VY1121SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020374.D	1		11/21/24 09:59	VY112124

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\VY112124\
 Data File : VY020374.D
 Acq On : 21 Nov 2024 09:59
 Operator : SY/MD
 Sample : VY1121SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1121SBL01

Quant Time: Nov 21 13:56:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	139506	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	270751	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	245370	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	89046	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	83114	51.857	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	103.720%
35) Dibromofluoromethane	7.640	113	84115	48.450	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	96.900%
50) Toluene-d8	10.109	98	329763	48.218	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.440%
62) 4-Bromofluorobenzene	12.408	95	104043	47.324	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	94.640%

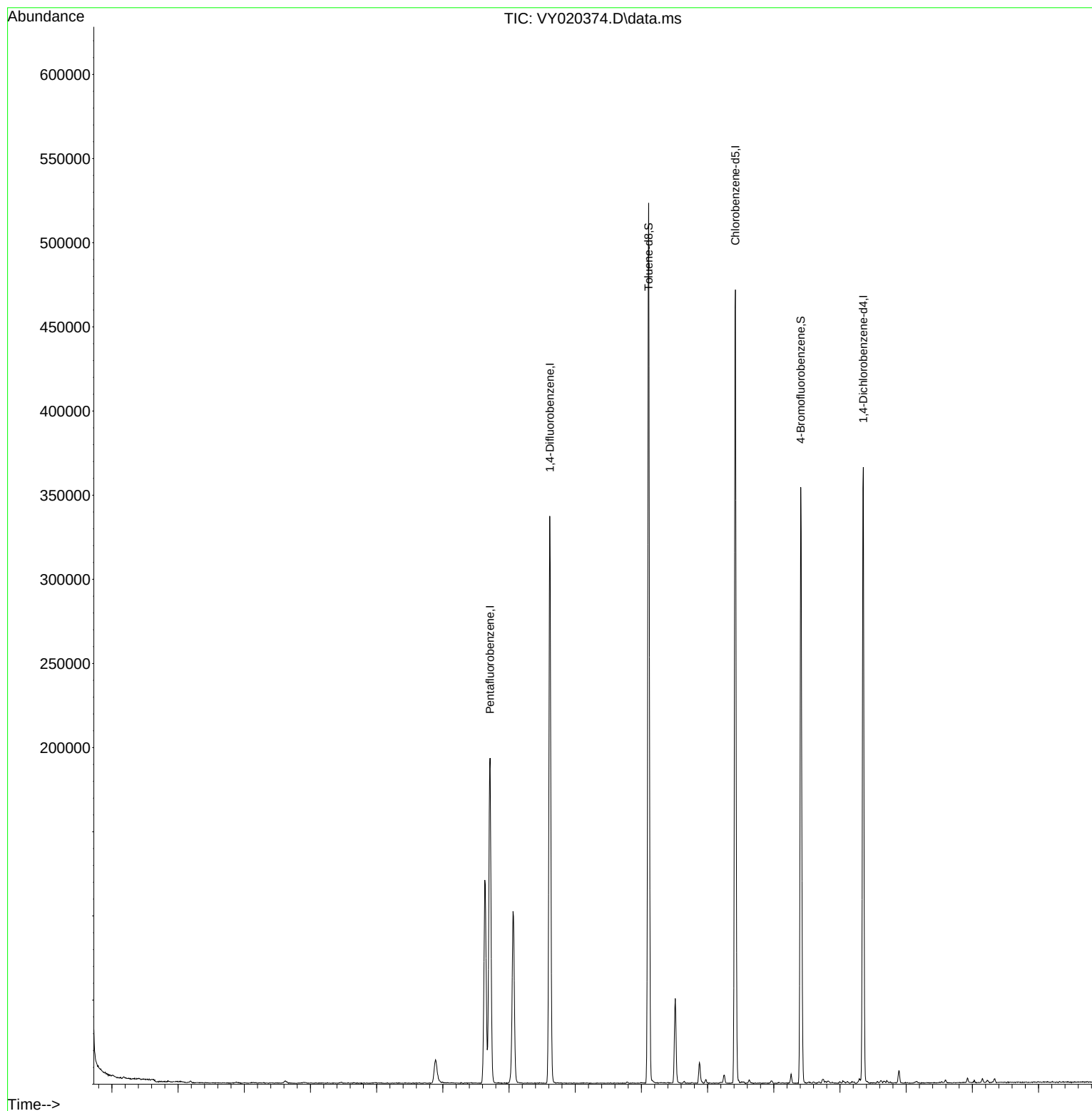
Target Compounds	Qvalue

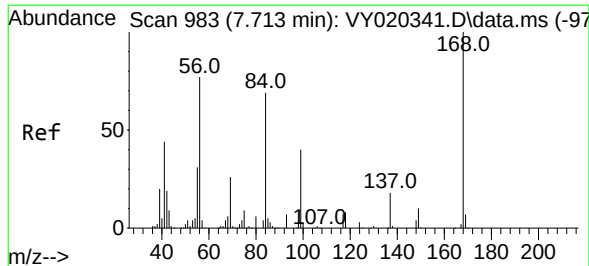
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020374.D
Acq On : 21 Nov 2024 09:59
Operator : SY/MD
Sample : VY1121SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

Quant Time: Nov 21 13:56:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

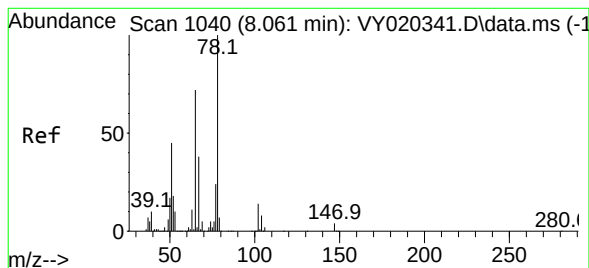
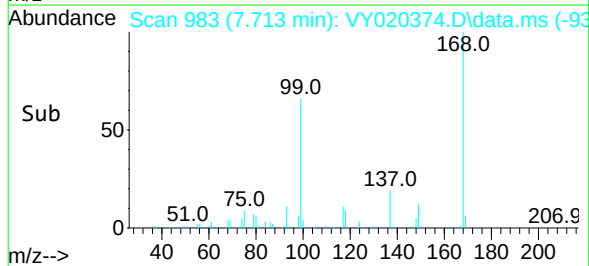
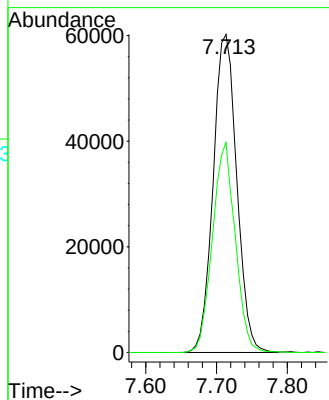
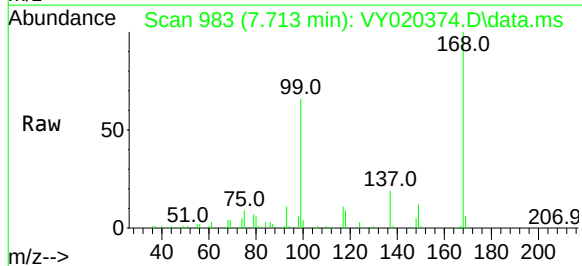




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

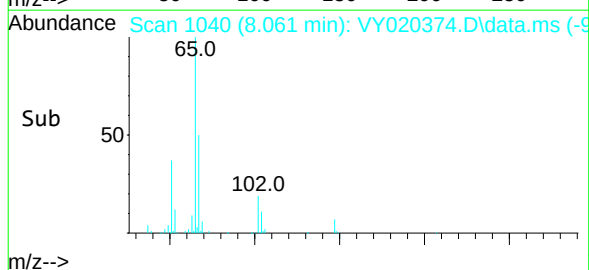
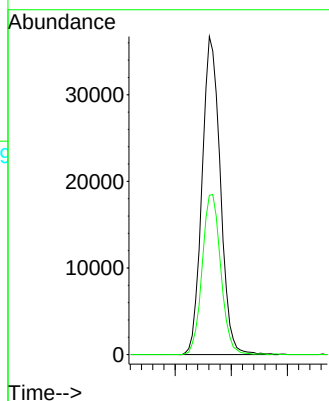
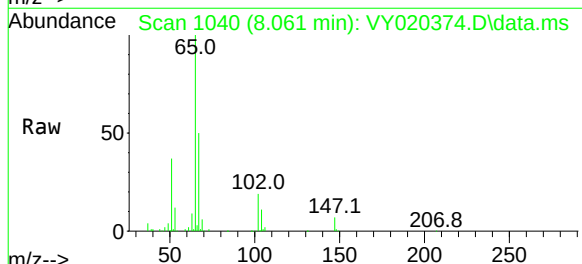
Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

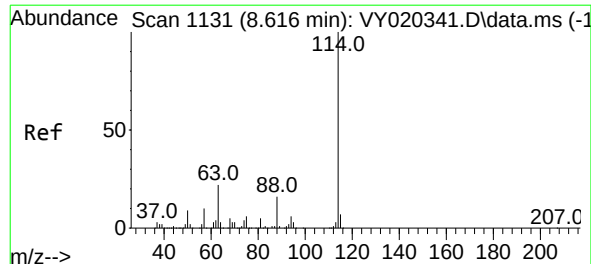
Tgt Ion:168 Resp: 139506
Ion Ratio Lower Upper
168 100
99 66.0 46.6 69.8



#33
1,2-Dichloroethane-d4
Concen: 51.857 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

Tgt Ion: 65 Resp: 83114
Ion Ratio Lower Upper
65 100
67 51.2 0.0 105.8

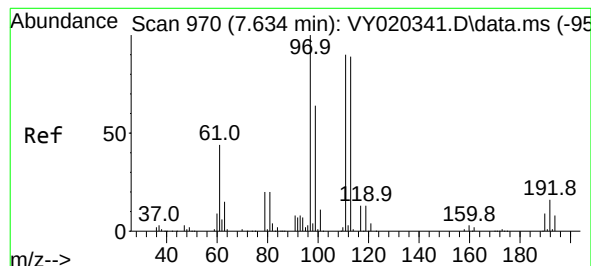
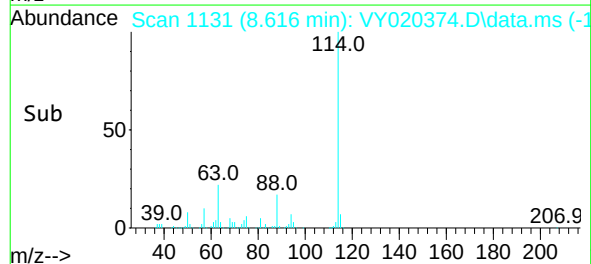
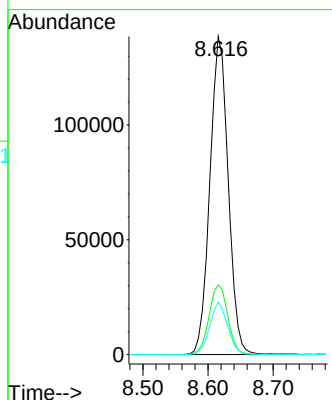
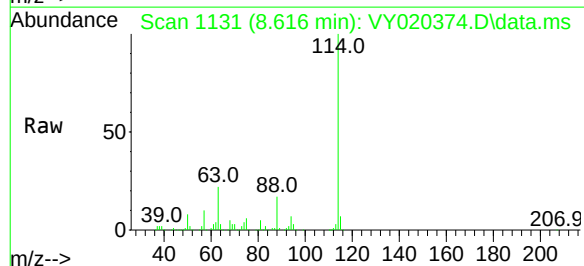




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

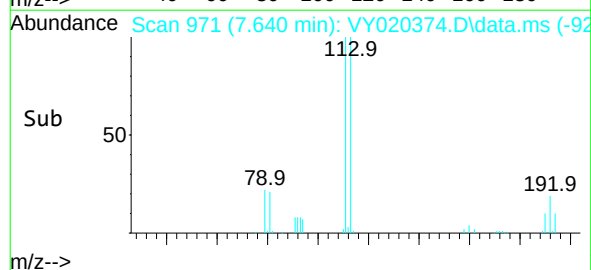
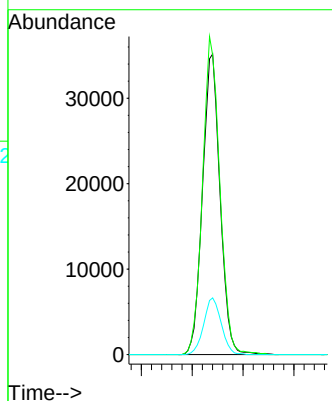
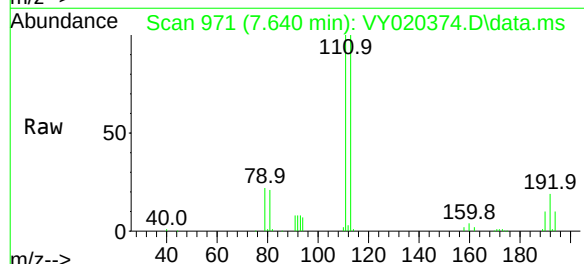
Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

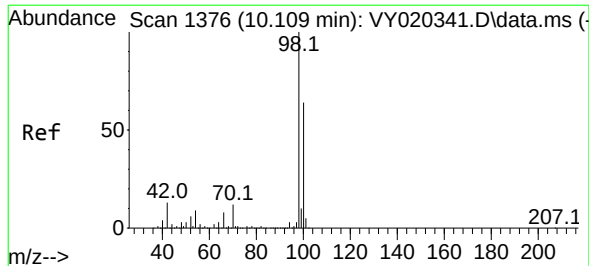
Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	44.8
88	16.5	0.0	32.0



#35
Dibromofluoromethane
Concen: 48.450 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.4	81.4	122.0
192	18.9	15.1	22.7





#50

Toluene-d8

Concen: 48.218 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY020374.D

Acq: 21 Nov 2024 09:59

Instrument :

MSVOA_Y

ClientSampleId :

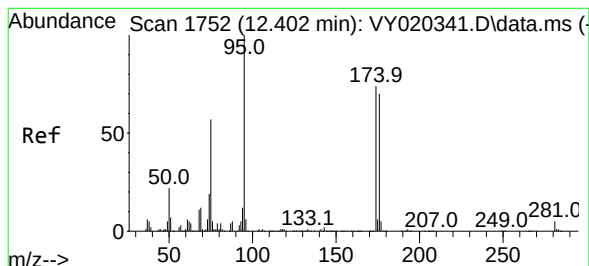
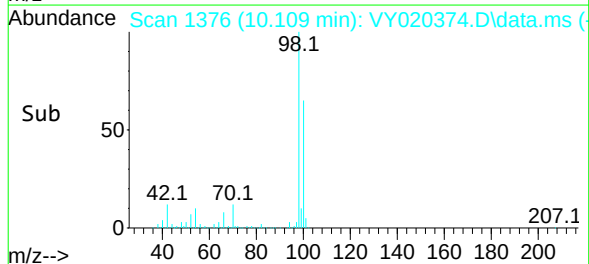
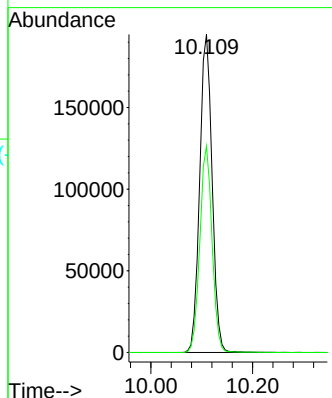
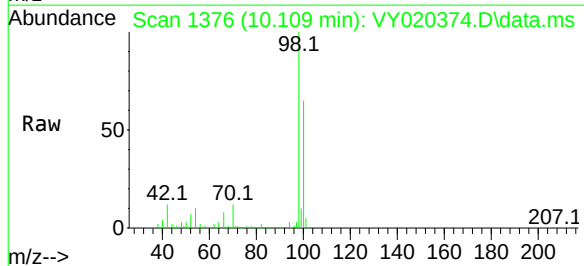
VY1121SBL01

Tgt Ion: 98 Resp: 329763

Ion Ratio Lower Upper

98 100

100 63.9 51.3 76.9



#62

4-Bromofluorobenzene

Concen: 47.324 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VY020374.D

Acq: 21 Nov 2024 09:59

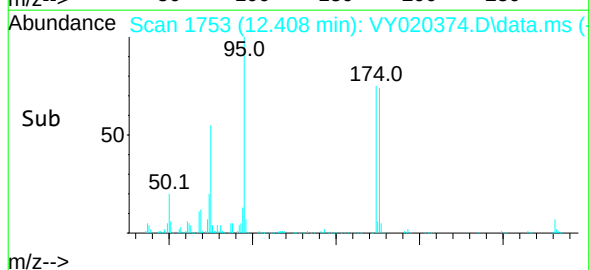
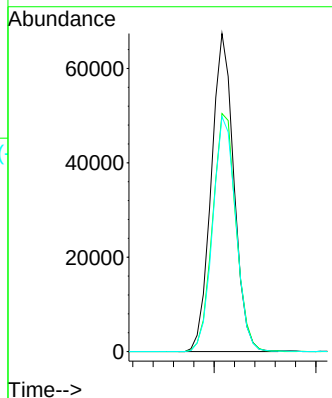
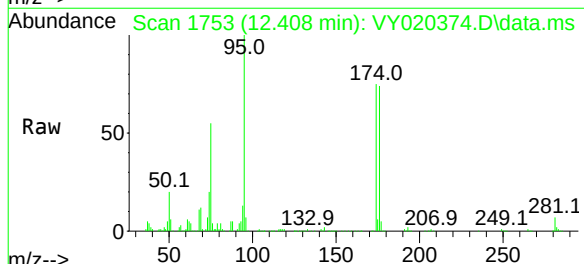
Tgt Ion: 95 Resp: 104043

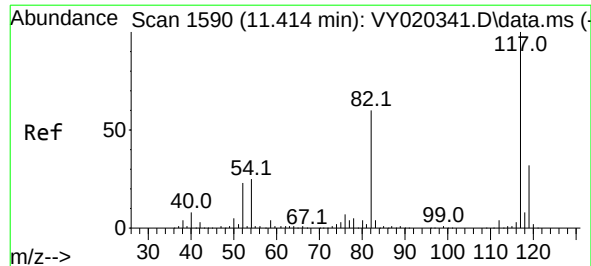
Ion Ratio Lower Upper

95 100

174 77.3 0.0 156.8

176 75.4 0.0 152.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 15

Delta R.T. 0.006 min

Lab File: VY020374.D

Acq: 21 Nov 2024 09:59

Instrument :

MSVOA_Y

ClientSampleId :

VY1121SBL01

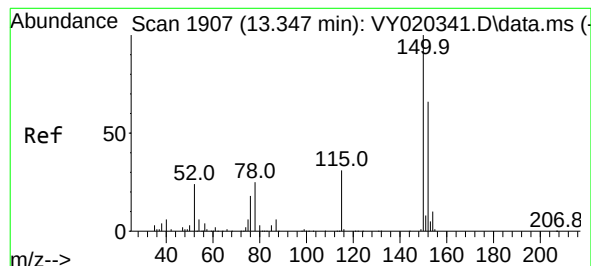
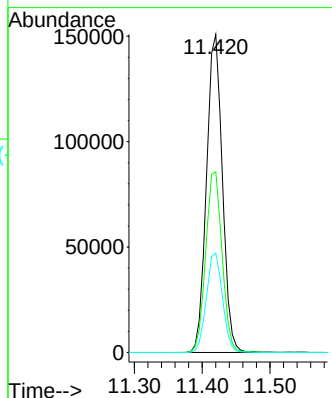
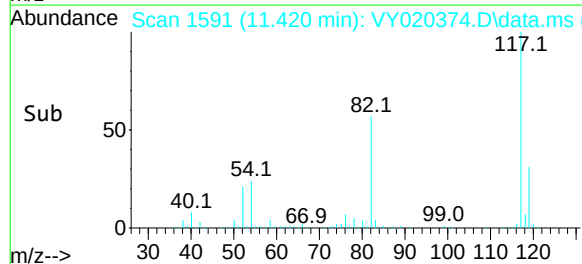
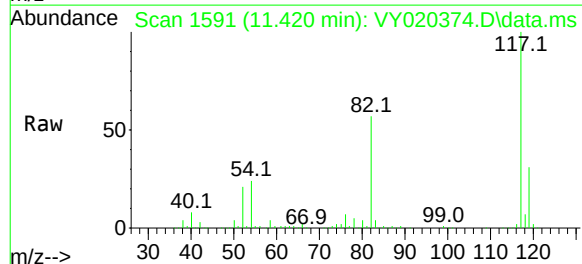
Tgt Ion:117 Resp: 245370

Ion Ratio Lower Upper

117 100

82 56.8 48.2 72.4

119 31.2 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY020374.D

Acq: 21 Nov 2024 09:59

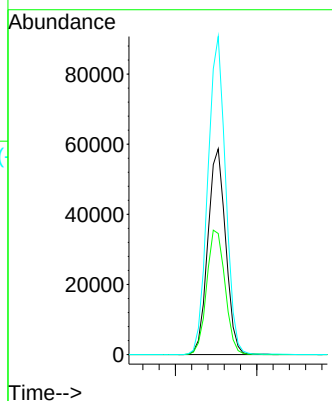
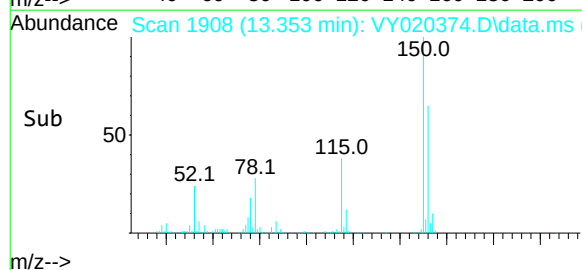
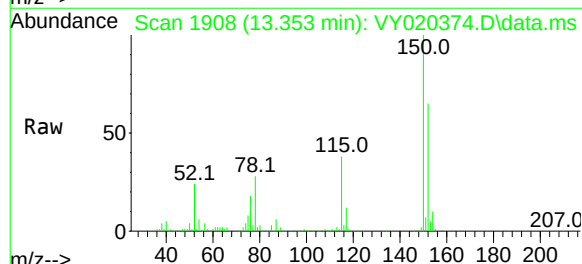
Tgt Ion:152 Resp: 89046

Ion Ratio Lower Upper

152 100

115 62.6 30.0 90.0

150 154.3 0.0 348.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
 Data File : VY020374.D
 Acq On : 21 Nov 2024 09:59
 Operator : SY/MD
 Sample : VY1121SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1121SBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Title : SW846 8260

Signal : TIC: VY020374.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.890	835	848	857	rBV	14023	45838	5.14%	0.989%
2	7.634	961	970	976	rBV	120761	283920	31.86%	6.127%
3	7.713	976	983	996	rVB	193066	443131	49.72%	9.563%
4	8.061	1026	1040	1051	rBV	102248	242886	27.25%	5.242%
5	8.616	1122	1131	1142	rBV	337014	659966	74.05%	14.242%
6	10.109	1368	1376	1393	rBV	523019	891259	100.00%	19.234%
7	10.512	1433	1442	1453	rBV	50195	90808	10.19%	1.960%
8	10.877	1497	1502	1512	rVB	12217	22092	2.48%	0.477%
9	11.420	1584	1591	1602	rBV	471263	780231	87.54%	16.838%
10	12.408	1747	1753	1764	rBV2	354121	591084	66.32%	12.756%
11	13.353	1901	1908	1917	rVB	365341	570479	64.01%	12.311%
12	13.889	1989	1996	2001	rBV	7330	12146	1.36%	0.262%

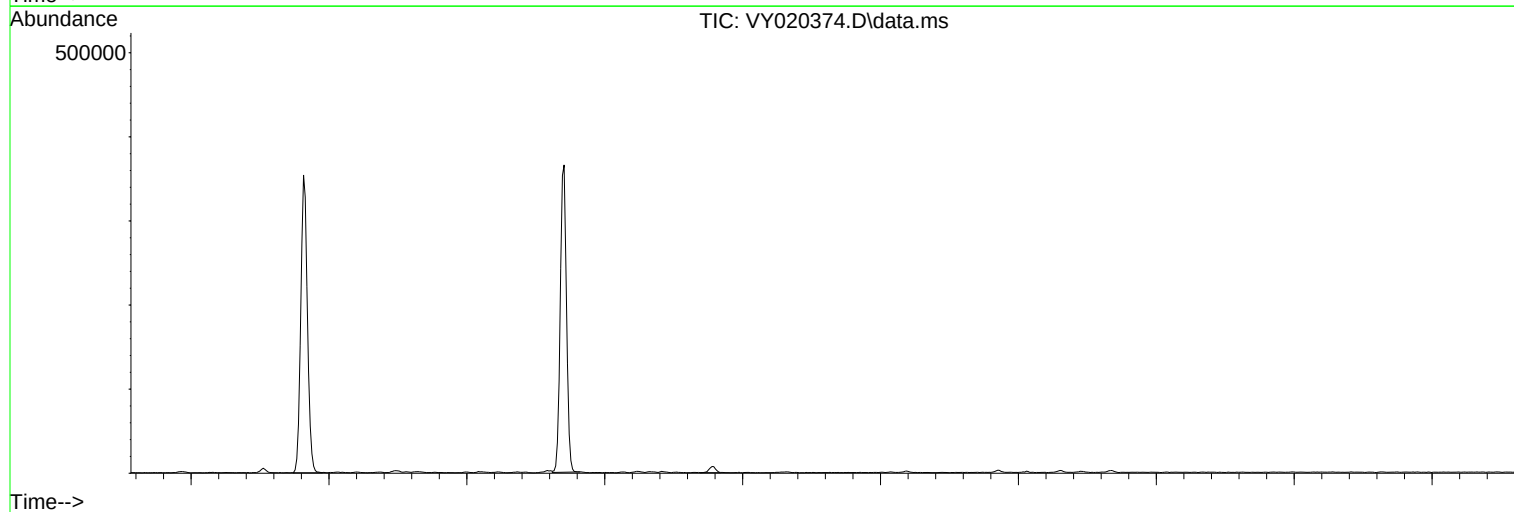
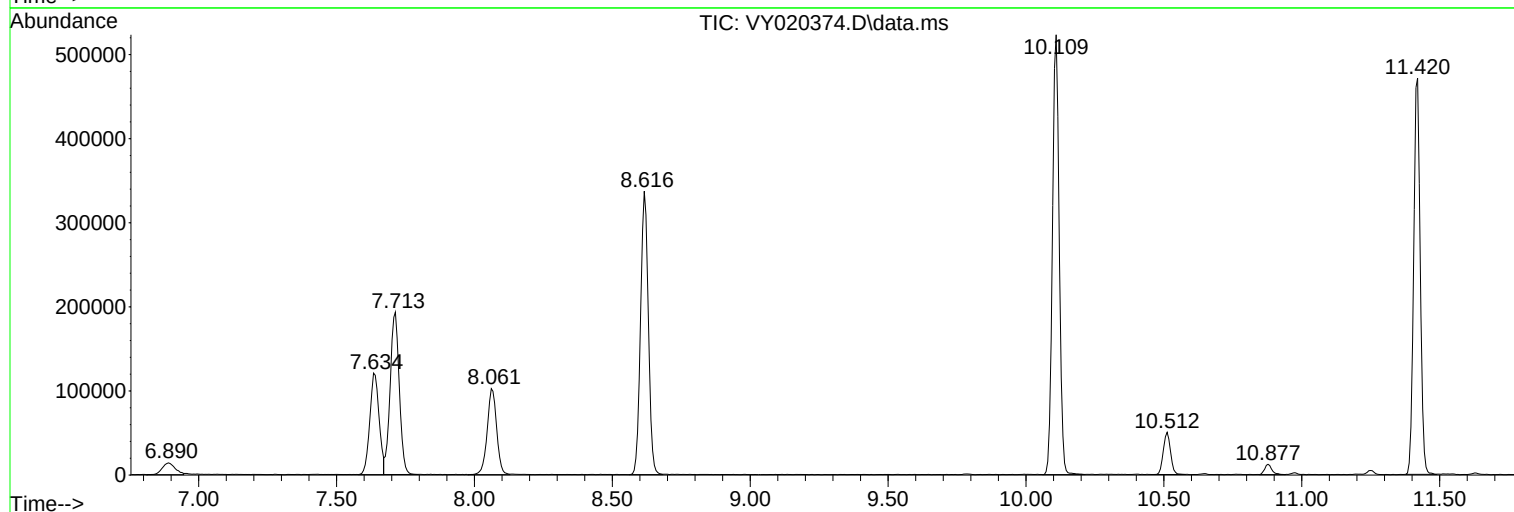
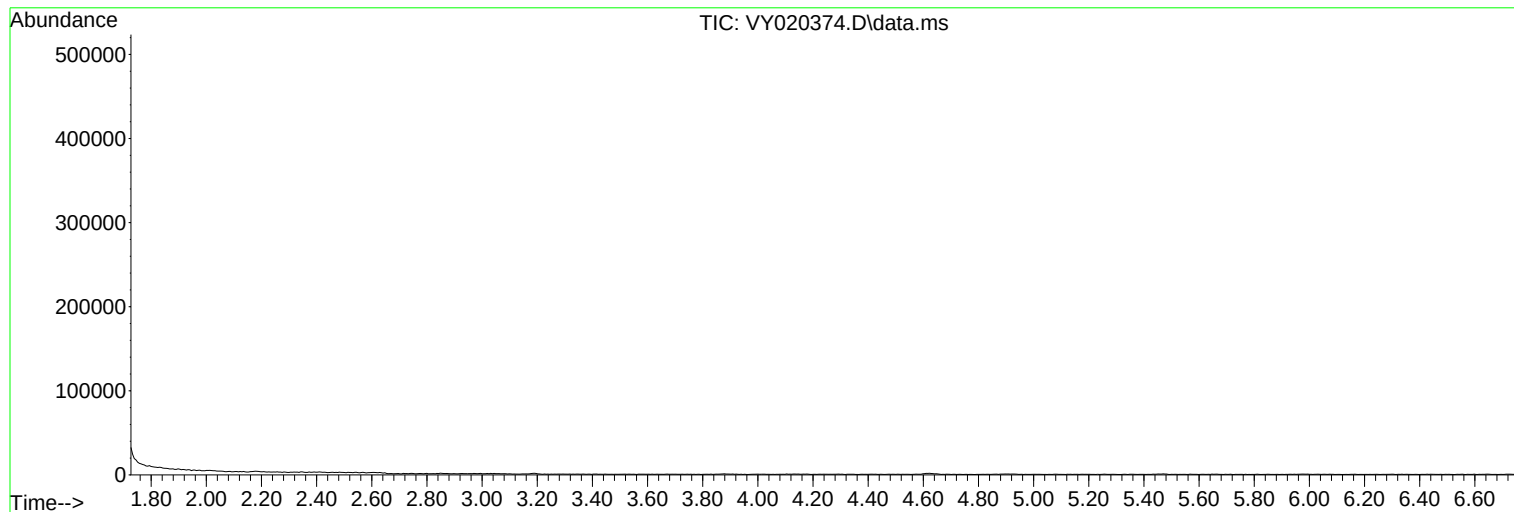
Sum of corrected areas: 4633840

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020374.D
Acq On : 21 Nov 2024 09:59
Operator : SY/MD
Sample : VY1121SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020374.D
Acq On : 21 Nov 2024 09:59
Operator : SY/MD
Sample : VY1121SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

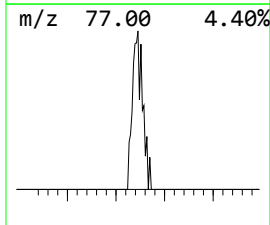
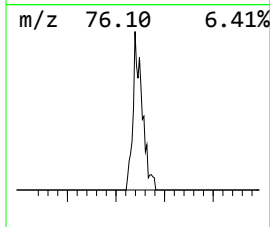
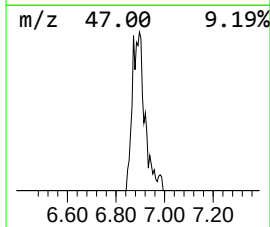
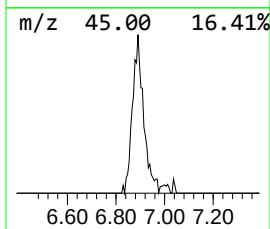
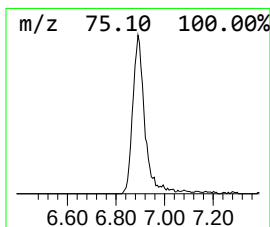
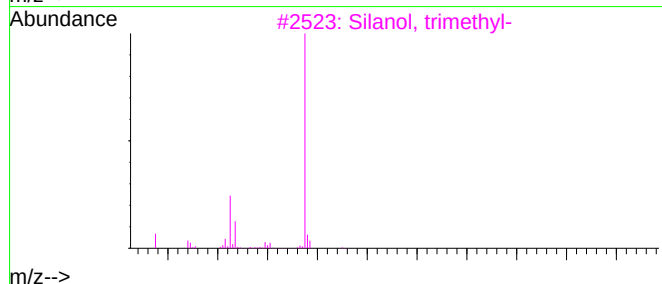
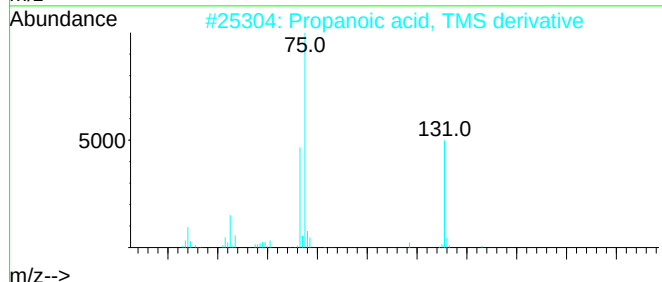
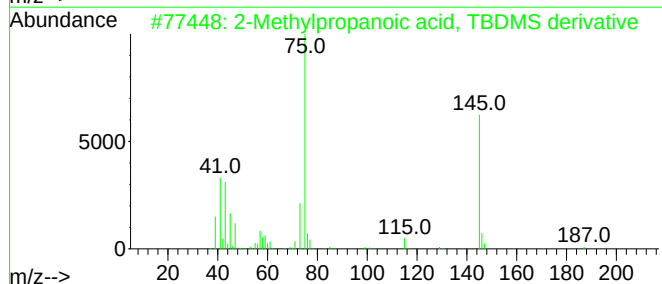
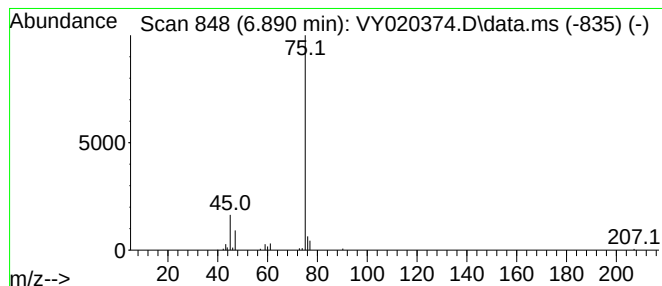
Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

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

Peak Number 1 2-Methylpropanoic acid, TBD... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
6.890	5.17 ug/l	45838	Pentafluorobenzene	7.713	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methylpropanoic acid, TBDMS de...	202	C10H22O2Si	111864-21-2	78
2	Propanoic acid, TMS derivative	146	C6H14O2Si	016844-98-7	78
3	Silanol, trimethyl-	90	C3H10OSi	001066-40-6	78
4	Acetic acid, TMS derivative	132	C5H12O2Si	002754-27-0	50
5	Hexanoic acid, TMS derivative	188	C9H20O2Si	014246-15-2	43



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020374.D
Acq On : 21 Nov 2024 09:59
Operator : SY/MD
Sample : VY1121SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Methylpropano...	6.890	5.2	ug/l	45838	1	7.713	443131	50.0

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	VD1118SBS01	SDG No.:	P4860
Lab Sample ID:	VD1118SBS01	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:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080060.D	1		11/18/24 10:55	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.2		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.8		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	21.3		1.00	5.00	ug/Kg
75-00-3	Chloroethane	22.5		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.3		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.6		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.0		0.78	5.00	ug/Kg
67-64-1	Acetone	96.9		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.8		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.2		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	19.2		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	18.5		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.0		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.3		0.69	5.00	ug/Kg
78-93-3	2-Butanone	83.2		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	18.4		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	17.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.8		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.3		0.87	5.00	ug/Kg
71-43-2	Benzene	19.3		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.3		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.6		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.0		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.5		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	98.5		4.40	25.0	ug/Kg
108-88-3	Toluene	19.5		0.67	5.00	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	VD1118SBS01	SDG No.:	P4860
Lab Sample ID:	VD1118SBS01	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:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080060.D	1		11/18/24 10:55	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.3		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.3		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.3		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	92.0		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.9		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.9		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.2		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.7		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	18.5		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.7		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.7		0.70	5.00	ug/Kg
100-42-5	Styrene	19.2		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.2		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.5		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.9		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.6		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.5		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.4		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.7		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.4		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.5		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.4		70 (50) - 130 (163)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (58) - 130 (134)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		70 (29) - 130 (146)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	7.875			
540-36-3	1,4-Difluorobenzene	283000	8.775			
3114-55-4	Chlorobenzene-d5	259000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	142000	13.516			

Report of Analysis

Client:	Tetra Tech		Date Collected:	
Project:	Ocean County Landfill 2024		Date Received:	
Client Sample ID:	VD1118SBS01		SDG No.:	P4860
Lab Sample ID:	VD1118SBS01		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:	RTX-VMS	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080060.D	1		11/18/24 10:55	VD111824

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_D\Data\VD111824\
 Data File : VD080060.D
 Acq On : 18 Nov 2024 10:55
 Operator : RP/MD
 Sample : VD1118SBS01
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1118SBS01

Quant Time: Nov 19 04:44:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/19/2024
 Supervised By :Mahesh Dadoda 11/19/2024

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	178101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	282863	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	258933	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	141556	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.228	65	90569	49.391	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	98.780%
35) Dibromofluoromethane	7.805	113	93698	49.772	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.540%
50) Toluene-d8	10.269	98	361952	51.013	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	102.020%
62) 4-Bromofluorobenzene	12.575	95	117407	50.435	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	100.880%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.934	85	26054	18.227	ug/l	89
3) Chloromethane	2.146	50	20830	19.816	ug/l	97
4) Vinyl Chloride	2.281	62	24350	20.291	ug/l	96
5) Bromomethane	2.687	94	28089	21.323	ug/l	95
6) Chloroethane	2.834	64	19340	22.547	ug/l	97
7) Trichlorofluoromethane	3.175	101	62694	21.270	ug/l	98
8) Diethyl Ether	3.593	74	15504	18.019	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.970	101	37911	20.590	ug/l	97
10) Methyl Iodide	4.164	142	40594	17.811	ug/l	100
11) Tert butyl alcohol	5.058	59	9009	94.407	ug/l #	96
12) 1,1-Dichloroethene	3.940	96	35104	19.022	ug/l	95
13) Acrolein	3.793	56	15145	82.712	ug/l	99
14) Allyl chloride	4.569	41	46809	17.894	ug/l	97
15) Acrylonitrile	5.264	53	34894	91.286	ug/l	98
16) Acetone	4.022	43	38546	96.882	ug/l	97
17) Carbon Disulfide	4.275	76	111711	18.799	ug/l	96
18) Methyl Acetate	4.569	43	16953	19.213	ug/l	99
19) Methyl tert-butyl Ether	5.322	73	68637	18.231	ug/l	93
20) Methylene Chloride	4.805	84	42508	19.922	ug/l	91
21) trans-1,2-Dichloroethene	5.311	96	37754	18.505	ug/l	93
22) Diisopropyl ether	6.222	45	98725	18.637	ug/l #	97
23) Vinyl Acetate	6.158	43	260471	85.823	ug/l	99
24) 1,1-Dichloroethane	6.111	63	67114	19.049	ug/l	97
25) 2-Butanone	7.087	43	43277	83.238	ug/l	99
26) 2,2-Dichloropropane	7.081	77	57476	18.768	ug/l	97
27) cis-1,2-Dichloroethene	7.081	96	43193	18.449	ug/l	93
28) Bromochloromethane	7.428	49	28037	17.882	ug/l	93
29) Tetrahydrofuran	7.452	42	26750	93.926	ug/l	99
30) Chloroform	7.599	83	74516	20.075	ug/l	100
31) Cyclohexane	7.875	56	54643	18.299	ug/l #	85
32) 1,1,1-Trichloroethane	7.793	97	65921	20.753	ug/l	97
36) 1,1-Dichloropropene	8.005	75	50832	19.747	ug/l	99
37) Ethyl Acetate	7.169	43	18960	17.136	ug/l #	94
38) Carbon Tetrachloride	7.993	117	55666	19.793	ug/l	93
39) Methylcyclohexane	9.275	83	56196	18.336	ug/l	92
40) Benzene	8.252	78	154630	19.271	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
 Data File : VD080060.D
 Acq On : 18 Nov 2024 10:55
 Operator : RP/MD
 Sample : VD1118SBS01
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1118SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 11/19/2024
 Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 04:44:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.399	41	10823	18.125	ug/l #	86
42) 1,2-Dichloroethane	8.328	62	42056	20.253	ug/l	99
43) Isopropyl Acetate	8.358	43	37665	18.779	ug/l #	88
44) Trichloroethene	9.028	130	40613	19.560	ug/l	97
45) 1,2-Dichloropropane	9.305	63	38653	20.046	ug/l	96
46) Dibromomethane	9.393	93	22400	19.972	ug/l	96
47) Bromodichloromethane	9.587	83	54740	19.499	ug/l #	98
48) Methyl methacrylate	9.381	41	17744	18.531	ug/l	93
49) 1,4-Dioxane	9.387	88	4518	439.129	ug/l #	88
51) 4-Methyl-2-Pentanone	10.157	43	100223	98.490	ug/l	99
52) Toluene	10.334	92	97423	19.538	ug/l	94
53) t-1,3-Dichloropropene	10.552	75	45844	18.319	ug/l	92
54) cis-1,3-Dichloropropene	10.016	75	57049	19.256	ug/l	94
55) 1,1,2-Trichloroethane	10.734	97	30157	20.324	ug/l	97
56) Ethyl methacrylate	10.599	69	29695	17.210	ug/l	90
57) 1,3-Dichloropropane	10.875	76	46019	19.065	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.869	63	62492	95.761	ug/l	96
59) 2-Hexanone	10.922	43	68836	91.966	ug/l	99
60) Dibromochloromethane	11.075	129	39861	20.871	ug/l	98
61) 1,2-Dibromoethane	11.175	107	29169	20.850	ug/l	98
64) Tetrachloroethene	10.810	164	39119	21.215	ug/l	95
65) Chlorobenzene	11.604	112	111434	19.729	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.681	131	39681	20.182	ug/l	96
67) Ethyl Benzene	11.681	91	175565	18.524	ug/l	97
68) m/p-Xylenes	11.793	106	143395	38.715	ug/l	99
69) o-Xylene	12.116	106	65428	19.651	ug/l	93
70) Styrene	12.134	104	114050	19.192	ug/l	99
71) Bromoform	12.298	173	23467	20.243	ug/l #	98
73) Isopropylbenzene	12.422	105	168564	18.465	ug/l	99
74) N-amyl acetate	12.234	43	37701	18.743	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.675	83	34967	19.931	ug/l	98
76) 1,2,3-Trichloropropane	12.722	75	21810m	17.448	ug/l	
77) Bromobenzene	12.698	156	45573	19.210	ug/l	96
78) n-propylbenzene	12.763	91	215707	19.120	ug/l	98
79) 2-Chlorotoluene	12.846	91	125865	19.025	ug/l	99
80) 1,3,5-Trimethylbenzene	12.904	105	146186	18.921	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.469	75	11793	19.309	ug/l	99
82) 4-Chlorotoluene	12.945	91	135386	19.142	ug/l	99
83) tert-Butylbenzene	13.163	119	122734	18.342	ug/l	100
84) 1,2,4-Trimethylbenzene	13.210	105	149083	19.209	ug/l	99
85) sec-Butylbenzene	13.345	105	194603	19.676	ug/l	100
86) p-Isopropyltoluene	13.457	119	163152	19.515	ug/l	99
87) 1,3-Dichlorobenzene	13.457	146	94084	19.585	ug/l	98
88) 1,4-Dichlorobenzene	13.534	146	94116	19.507	ug/l	98
89) n-Butylbenzene	13.787	91	149507	19.009	ug/l	99
90) Hexachloroethane	14.051	117	35475	19.794	ug/l	97
91) 1,2-Dichlorobenzene	13.828	146	81242	19.394	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.440	75	4950	18.659	ug/l	85
93) 1,2,4-Trichlorobenzene	15.098	180	53659	20.428	ug/l	98
94) Hexachlorobutadiene	15.198	225	29847	21.024	ug/l	93
95) Naphthalene	15.328	128	83816	18.786	ug/l	97
96) 1,2,3-Trichlorobenzene	15.516	180	47186	20.455	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080060.D
Acq On : 18 Nov 2024 10:55
Operator : RP/MD
Sample : VD1118SBS01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD1118SBS01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 04:44:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

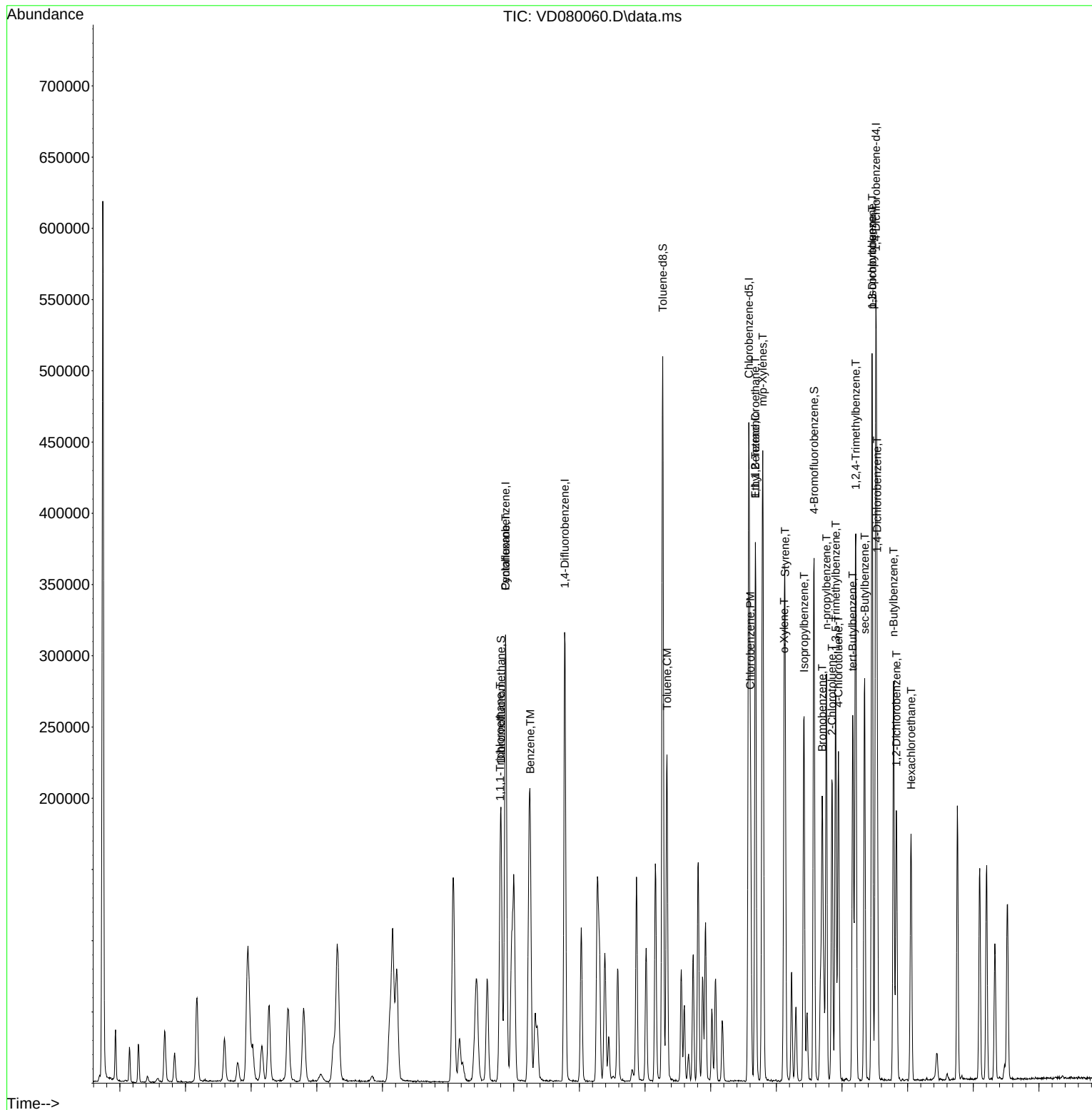
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_D
ClientSampleId :
VD1118SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024



Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	VY1120SBS01	SDG No.:	P4860
Lab Sample ID:	VY1120SBS01	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
VY020349.D	1		11/20/24 10:53	VY112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.8		1.70	5.00	ug/Kg
74-87-3	Chloromethane	14.5		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	16.0		0.77	5.00	ug/Kg
74-83-9	Bromomethane	16.6		1.00	5.00	ug/Kg
75-00-3	Chloroethane	15.9		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.1		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	18.2		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	17.9		0.78	5.00	ug/Kg
67-64-1	Acetone	85.6		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.2		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	17.6		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	16.3		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	17.3		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	17.2		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	17.6		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.4		0.69	5.00	ug/Kg
78-93-3	2-Butanone	92.7		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.2		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	18.0		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	17.3		2.40	5.00	ug/Kg
67-66-3	Chloroform	17.6		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	18.7		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.5		0.87	5.00	ug/Kg
71-43-2	Benzene	18.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.0		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	18.6		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	18.2		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	18.4		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	93.2		4.40	25.0	ug/Kg
108-88-3	Toluene	18.9		0.67	5.00	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	VY1120SBS01	SDG No.:	P4860
Lab Sample ID:	VY1120SBS01	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
VY020349.D	1		11/20/24 10:53	VY112024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.2		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	18.9		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	17.9		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	94.7		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	17.9		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	17.6		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.4		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	18.3		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	18.7		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.1		1.40	10.0	ug/Kg
95-47-6	o-Xylene	18.6		0.70	5.00	ug/Kg
100-42-5	Styrene	19.2		0.60	5.00	ug/Kg
75-25-2	Bromoform	18.7		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.5		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	17.3		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.8		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	18.1		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	17.9		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	17.3		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.2		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.2		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.3		70 (50) - 130 (163)	87%	SPK: 50
1868-53-7	Dibromofluoromethane	41.3		70 (54) - 130 (147)	83%	SPK: 50
2037-26-5	Toluene-d8	42.7		70 (58) - 130 (134)	85%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.2		70 (29) - 130 (146)	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	210000	7.713			
540-36-3	1,4-Difluorobenzene	347000	8.616			
3114-55-4	Chlorobenzene-d5	288000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	135000	13.353			

Report of Analysis

Client:	Tetra Tech		Date Collected:	
Project:	Ocean County Landfill 2024		Date Received:	
Client Sample ID:	VY1120SBS01		SDG No.:	P4860
Lab Sample ID:	VY1120SBS01		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
VY020349.D	1		11/20/24 10:53	VY112024

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\VY112024\
 Data File : VY020349.D
 Acq On : 20 Nov 2024 10:53
 Operator : SY/MD
 Sample : VY1120SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1120SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/21/2024
 Supervised By :Semsettin Yesilyurt 11/21/2024

Quant Time: Nov 21 00:43:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	210349	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	347339	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	288195	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	135305	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	104695	43.322	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	86.640%
35) Dibromofluoromethane	7.634	113	92069	41.338	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	82.680%
50) Toluene-d8	10.109	98	374295	42.662	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	85.320%
62) 4-Bromofluorobenzene	12.408	95	124792	44.246	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	88.500%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	44542	21.815	ug/l	96
3) Chloromethane	2.074	50	47600	14.524	ug/l	97
4) Vinyl Chloride	2.208	62	44857	16.014	ug/l	99
5) Bromomethane	2.598	94	23155	16.552	ug/l	97
6) Chloroethane	2.739	64	26010	15.918	ug/l	100
7) Trichlorofluoromethane	3.062	101	74348	19.100	ug/l	97
8) Diethyl Ether	3.458	74	21497	17.504	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.824	101	42301	18.248	ug/l	99
10) Methyl Iodide	4.007	142	53198	17.133	ug/l	94
11) Tert butyl alcohol	4.860	59	15294	80.697	ug/l #	73
12) 1,1-Dichloroethene	3.793	96	41036	17.883	ug/l	99
13) Acrolein	3.659	56	17734	118.509	ug/l	99
14) Allyl chloride	4.385	41	77268	17.413	ug/l	93
15) Acrylonitrile	5.067	53	48016	88.443	ug/l	99
16) Acetone	3.873	43	49582	85.583	ug/l	95
17) Carbon Disulfide	4.110	76	132661	17.160	ug/l	98
18) Methyl Acetate	4.391	43	22014	16.301	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	104902	17.598	ug/l	99
20) Methylene Chloride	4.622	84	42492	17.320	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	43797	17.185	ug/l	86
22) Diisopropyl ether	6.025	45	153700	17.577	ug/l	98
23) Vinyl Acetate	5.964	43	423950	86.755	ug/l	98
24) 1,1-Dichloroethane	5.921	63	86954	17.614	ug/l	99
25) 2-Butanone	6.902	43	69106	92.655	ug/l	96
26) 2,2-Dichloropropane	6.890	77	77244	18.932	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	50560	18.011	ug/l	96
28) Bromochloromethane	7.250	49	36015	17.334	ug/l	95
29) Tetrahydrofuran	7.268	42	40198	90.176	ug/l	98
30) Chloroform	7.427	83	83960	17.613	ug/l	98
31) Cyclohexane	7.707	56	83104	18.447	ug/l	96
32) 1,1,1-Trichloroethane	7.622	97	78369	18.723	ug/l	99
36) 1,1-Dichloropropene	7.841	75	65647	19.298	ug/l	97
37) Ethyl Acetate	6.988	43	29576	18.979	ug/l	98
38) Carbon Tetrachloride	7.823	117	71712	20.190	ug/l	97
39) Methylcyclohexane	9.109	83	82939	19.481	ug/l	97
40) Benzene	8.085	78	188187	18.877	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
 Data File : VY020349.D
 Acq On : 20 Nov 2024 10:53
 Operator : SY/MD
 Sample : VY1120SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1120SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/21/2024
 Supervised By :Semsettin Yesilyurt 11/21/2024

Quant Time: Nov 21 00:43:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	15336	17.296	ug/l	98
42) 1,2-Dichloroethane	8.158	62	51081	18.983	ug/l	98
43) Isopropyl Acetate	8.201	43	56097	18.511	ug/l	98
44) Trichloroethene	8.866	130	43825	18.554	ug/l	96
45) 1,2-Dichloropropane	9.146	63	43294	18.202	ug/l	98
46) Dibromomethane	9.231	93	22071	18.104	ug/l	99
47) Bromodichloromethane	9.426	83	61888	18.390	ug/l	96
48) Methyl methacrylate	9.225	41	26668	18.406	ug/l	96
49) 1,4-Dioxane	9.231	88	4839	385.821	ug/l	93
51) 4-Methyl-2-Pentanone	9.999	43	143304	93.180	ug/l	99
52) Toluene	10.170	92	115311	18.924	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	57785	18.158	ug/l	97
54) cis-1,3-Dichloropropene	9.859	75	68828	18.893	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	28937	17.882	ug/l	99
56) Ethyl methacrylate	10.438	69	42601	17.530	ug/l	99
57) 1,3-Dichloropropane	10.719	76	53070	18.248	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	117864	102.283	ug/l	100
59) 2-Hexanone	10.762	43	103150	94.718	ug/l	100
60) Dibromochloromethane	10.914	129	37413	17.937	ug/l	95
61) 1,2-Dibromoethane	11.018	107	26457	17.644	ug/l	100
64) Tetrachloroethene	10.652	164	38299	18.436	ug/l	95
65) Chlorobenzene	11.444	112	117902	18.348	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	40272	18.761	ug/l	98
67) Ethyl Benzene	11.524	91	222103	18.736	ug/l	99
68) m/p-Xylenes	11.627	106	162580	38.075	ug/l	97
69) o-Xylene	11.956	106	75181	18.563	ug/l	95
70) Styrene	11.969	104	129129	19.190	ug/l	98
71) Bromoform	12.133	173	20923	18.702	ug/l #	98
73) Isopropylbenzene	12.255	105	211498	18.452	ug/l	100
74) N-amyl acetate	12.072	43	49071	17.716	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.511	83	31996	17.272	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	21610m	16.945	ug/l	
77) Bromobenzene	12.536	156	42295	17.613	ug/l	94
78) n-propylbenzene	12.597	91	254825	18.525	ug/l	100
79) 2-Chlorotoluene	12.682	91	141572	17.900	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	171185	18.480	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.304	75	11591	17.809	ug/l	98
82) 4-Chlorotoluene	12.779	91	145630	17.841	ug/l	98
83) tert-Butylbenzene	12.999	119	150086	18.360	ug/l	96
84) 1,2,4-Trimethylbenzene	13.048	105	168413	18.338	ug/l	99
85) sec-Butylbenzene	13.176	105	221967	17.224	ug/l	100
86) p-Isopropyltoluene	13.298	119	188045	18.872	ug/l	100
87) 1,3-Dichlorobenzene	13.292	146	86339	17.781	ug/l	98
88) 1,4-Dichlorobenzene	13.371	146	83938	18.093	ug/l	98
89) n-Butylbenzene	13.621	91	178851	18.744	ug/l	100
90) Hexachloroethane	13.883	117	34199	17.783	ug/l	98
91) 1,2-Dichlorobenzene	13.663	146	72425	17.902	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5270	17.337	ug/l	91
93) 1,2,4-Trichlorobenzene	14.925	180	44429	18.163	ug/l	99
94) Hexachlorobutadiene	15.029	225	29500	19.758	ug/l	98
95) Naphthalene	15.151	128	77085	18.298	ug/l	100
96) 1,2,3-Trichlorobenzene	15.334	180	38068	18.202	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020349.D
Acq On : 20 Nov 2024 10:53
Operator : SY/MD
Sample : VY1120SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1120SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/21/2024
Supervised By :Semsettin Yesilyurt 11/21/2024

Quant Time: Nov 21 00:43:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

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

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

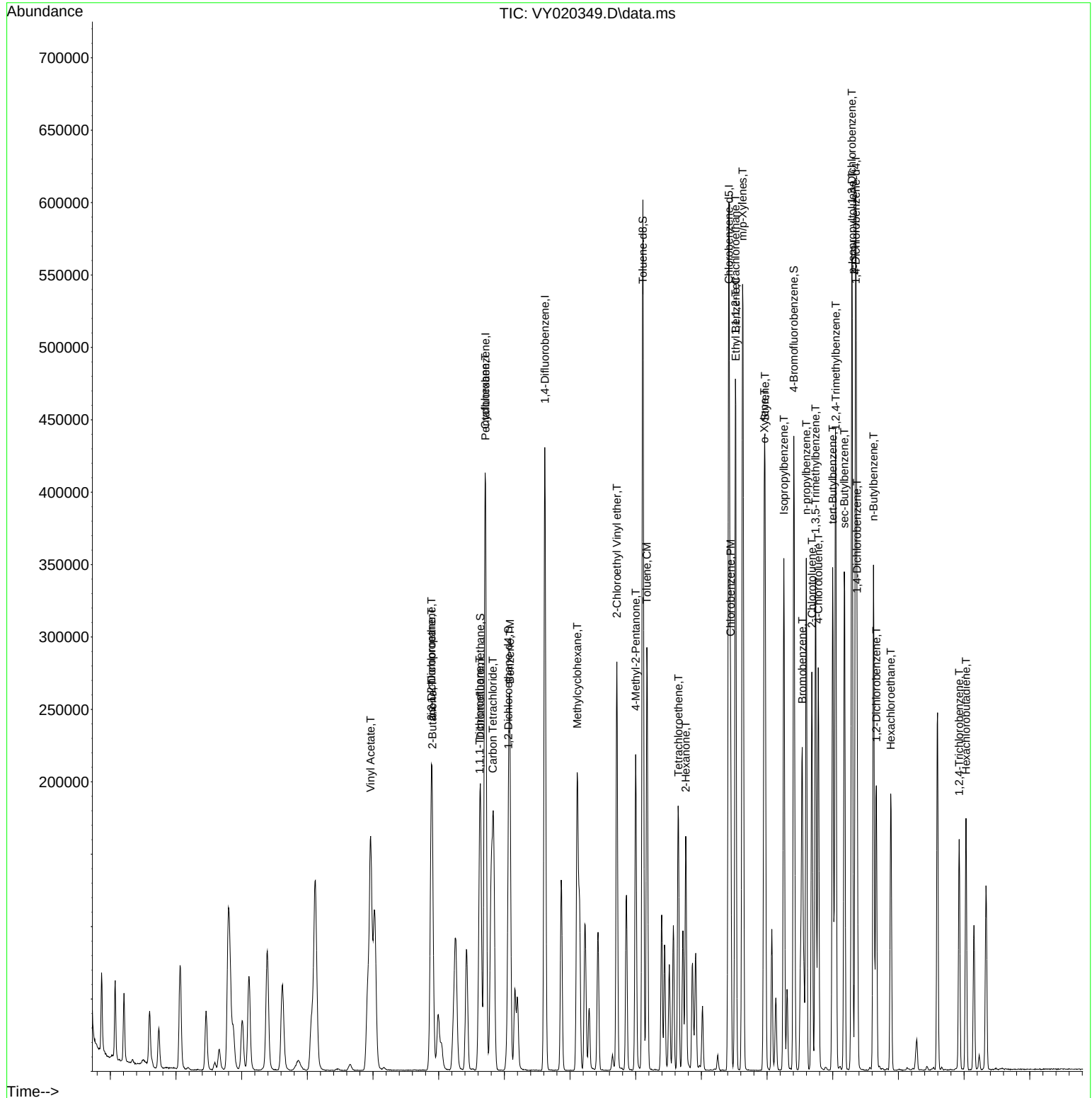
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020349.D
Acq On : 20 Nov 2024 10:53
Operator : SY/MD
Sample : VY1120SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1120SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/21/2024
Supervised By :Semsettin Yesilyurt 11/21/2024

Quant Time: Nov 21 00:43:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration



CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	22.3		1.70	5.00	ug/Kg
74-87-3	Chloromethane	14.3		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	15.8		0.77	5.00	ug/Kg
74-83-9	Bromomethane	17.3		1.00	5.00	ug/Kg
75-00-3	Chloroethane	17.0		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.8		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	18.3		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.3		0.78	5.00	ug/Kg
67-64-1	Acetone	93.9		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.3		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.3		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.1		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.0		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	17.9		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	18.5		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.7		0.69	5.00	ug/Kg
78-93-3	2-Butanone	99.8		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.1		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	18.9		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	18.1		2.40	5.00	ug/Kg
67-66-3	Chloroform	19.0		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.2		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.8		0.87	5.00	ug/Kg
71-43-2	Benzene	19.6		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.7		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.3		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.1		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.9		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	99.7		4.40	25.0	ug/Kg
108-88-3	Toluene	19.3		0.67	5.00	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	VY1121SBS01	SDG No.:	P4860
Lab Sample ID:	VY1121SBS01	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
VY020375.D	1		11/21/24 10:39	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.2		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.9		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.0		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	100		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.7		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.6		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	18.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.0		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.2		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.5		0.70	5.00	ug/Kg
100-42-5	Styrene	19.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.7		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.4		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.2		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.8		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	18.4		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	18.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.1		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	17.9		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.6		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.0		70 (50) - 130 (163)	92%	SPK: 50
1868-53-7	Dibromofluoromethane	43.7		70 (54) - 130 (147)	87%	SPK: 50
2037-26-5	Toluene-d8	43.3		70 (58) - 130 (134)	87%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		70 (29) - 130 (146)	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	180000	7.713			
540-36-3	1,4-Difluorobenzene	304000	8.616			
3114-55-4	Chlorobenzene-d5	255000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.352			

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	VY1121SBS01	SDG No.:	P4860
Lab Sample ID:	VY1121SBS01	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
VY020375.D	1		11/21/24 10:39	VY112124

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\VY112124\
 Data File : VY020375.D
 Acq On : 21 Nov 2024 10:39
 Operator : SY/MD
 Sample : VY1121SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1121SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 11/22/2024
 Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 13:56:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	180247	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	303523	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	255135	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	121310	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	95330	46.035	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	92.060%
35) Dibromofluoromethane	7.640	113	85002	43.674	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	87.340%
50) Toluene-d8	10.109	98	332344	43.348	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	86.700%
62) 4-Bromofluorobenzene	12.408	95	110943	45.014	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	90.020%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	38946	22.260	ug/l	97
3) Chloromethane	2.074	50	40357	14.316	ug/l	96
4) Vinyl Chloride	2.208	62	37886	15.784	ug/l	98
5) Bromomethane	2.604	94	20743	17.304	ug/l	100
6) Chloroethane	2.739	64	23745	16.958	ug/l	98
7) Trichlorofluoromethane	3.068	101	66071	19.809	ug/l	98
8) Diethyl Ether	3.458	74	19799	18.813	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.824	101	36345	18.297	ug/l	100
10) Methyl Iodide	4.013	142	47517	17.859	ug/l	95
11) Tert butyl alcohol	4.872	59	14695	90.913	ug/l	95
12) 1,1-Dichloroethene	3.799	96	35988	18.303	ug/l	98
13) Acrolein	3.659	56	18523	144.453	ug/l	99
14) Allyl chloride	4.391	41	68363	17.979	ug/l	95
15) Acrylonitrile	5.067	53	43974	94.525	ug/l	99
16) Acetone	3.879	43	46611	93.891	ug/l	94
17) Carbon Disulfide	4.110	76	114597	17.299	ug/l	99
18) Methyl Acetate	4.391	43	20960	18.113	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	98615	19.307	ug/l	97
20) Methylene Chloride	4.622	84	39953	19.004	ug/l	96
21) trans-1,2-Dichloroethene	5.128	96	39135	17.920	ug/l	94
22) Diisopropyl ether	6.031	45	137248	18.317	ug/l	98
23) Vinyl Acetate	5.970	43	388407	92.756	ug/l	99
24) 1,1-Dichloroethane	5.927	63	78285	18.507	ug/l	96
25) 2-Butanone	6.902	43	63764	99.770	ug/l	98
26) 2,2-Dichloropropane	6.896	77	69511	19.881	ug/l	98
27) cis-1,2-Dichloroethene	6.902	96	45476	18.906	ug/l	96
28) Bromochloromethane	7.256	49	32189	18.080	ug/l	99
29) Tetrahydrofuran	7.268	42	37676	98.633	ug/l	98
30) Chloroform	7.427	83	77412	18.951	ug/l	98
31) Cyclohexane	7.707	56	72133	18.686	ug/l #	95
32) 1,1,1-Trichloroethane	7.622	97	72285	20.154	ug/l	99
36) 1,1-Dichloropropene	7.841	75	57076	19.200	ug/l	98
37) Ethyl Acetate	6.994	43	27101	19.901	ug/l	99
38) Carbon Tetrachloride	7.823	117	65629	21.145	ug/l	98
39) Methylcyclohexane	9.115	83	69833	18.771	ug/l	97
40) Benzene	8.085	78	171136	19.645	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
 Data File : VY020375.D
 Acq On : 21 Nov 2024 10:39
 Operator : SY/MD
 Sample : VY1121SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1121SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 11/22/2024
 Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 13:56:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	13680	17.656	ug/l	96
42) 1,2-Dichloroethane	8.164	62	48620	20.677	ug/l	98
43) Isopropyl Acetate	8.201	43	53412	20.169	ug/l #	87
44) Trichloroethene	8.865	130	39835	19.299	ug/l	97
45) 1,2-Dichloropropane	9.146	63	39715	19.108	ug/l	99
46) Dibromomethane	9.237	93	20413	19.162	ug/l	97
47) Bromodichloromethane	9.426	83	58594	19.924	ug/l	98
48) Methyl methacrylate	9.225	41	24591	19.422	ug/l	95
49) 1,4-Dioxane	9.231	88	4188	382.119	ug/l #	93
51) 4-Methyl-2-Pentanone	9.999	43	133986	99.697	ug/l	99
52) Toluene	10.176	92	102921	19.329	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	53363	19.189	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	63347	19.899	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	26820	18.966	ug/l	100
56) Ethyl methacrylate	10.438	69	39987	18.829	ug/l	98
57) 1,3-Dichloropropane	10.719	76	50296	19.791	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	100485	99.789	ug/l	99
59) 2-Hexanone	10.761	43	97031	101.962	ug/l	100
60) Dibromochloromethane	10.914	129	36034	19.770	ug/l	98
61) 1,2-Dibromoethane	11.018	107	24532	18.722	ug/l	100
64) Tetrachloroethene	10.652	164	34140	18.563	ug/l	96
65) Chlorobenzene	11.444	112	105916	18.619	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.517	131	37863	19.924	ug/l	97
67) Ethyl Benzene	11.524	91	199885	19.046	ug/l	100
68) m/p-Xylenes	11.633	106	148141	39.189	ug/l	98
69) o-Xylene	11.956	106	70006	19.525	ug/l	98
70) Styrene	11.975	104	117883	19.789	ug/l	99
71) Bromoform	12.133	173	20512	20.711	ug/l #	98
73) Isopropylbenzene	12.255	105	189065	18.398	ug/l	100
74) N-amyl acetate	12.072	43	45544	18.339	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.511	83	30208	18.188	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	21691m	18.971	ug/l	
77) Bromobenzene	12.536	156	39097	18.159	ug/l	95
78) n-propylbenzene	12.597	91	228254	18.508	ug/l	100
79) 2-Chlorotoluene	12.682	91	128274	18.090	ug/l	100
80) 1,3,5-Trimethylbenzene	12.743	105	153707	18.507	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.304	75	10525	18.037	ug/l	95
82) 4-Chlorotoluene	12.779	91	130788	17.871	ug/l	98
83) tert-Butylbenzene	13.005	119	134252	18.318	ug/l	96
84) 1,2,4-Trimethylbenzene	13.048	105	150805	18.315	ug/l	99
85) sec-Butylbenzene	13.182	105	197873	17.126	ug/l	100
86) p-Isopropyltoluene	13.298	119	162886	18.233	ug/l	99
87) 1,3-Dichlorobenzene	13.292	146	77470	17.796	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	76598	18.416	ug/l	98
89) n-Butylbenzene	13.621	91	153757	17.973	ug/l	99
90) Hexachloroethane	13.883	117	31013	17.986	ug/l	97
91) 1,2-Dichlorobenzene	13.663	146	67451	18.596	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	4936	18.112	ug/l	95
93) 1,2,4-Trichlorobenzene	14.925	180	39202	17.875	ug/l	99
94) Hexachlorobutadiene	15.029	225	24790	18.518	ug/l	98
95) Naphthalene	15.151	128	69552	18.415	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	32957	17.576	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020375.D
Acq On : 21 Nov 2024 10:39
Operator : SY/MD
Sample : VY1121SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1121SBS01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 13:56:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 04:38:24 2024
Response via : Initial Calibration

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

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

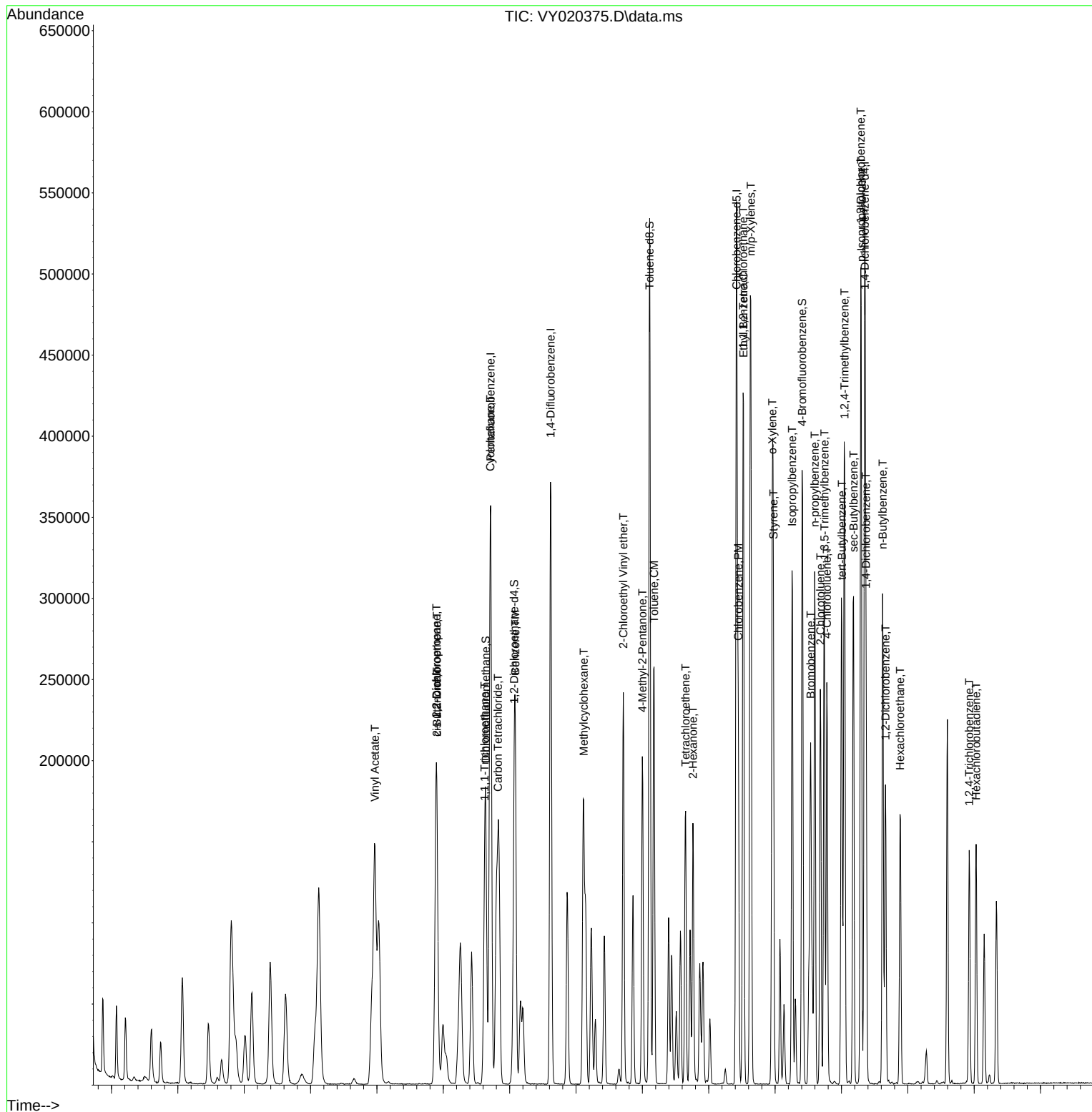
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
 Data File : VY020375.D
 Acq On : 21 Nov 2024 10:39
 Operator : SY/MD
 Sample : VY1121SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1121SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/22/2024
 Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 13:56:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 04:38:24 2024
 Response via : Initial Calibration



Report of Analysis

Client:	Tetra Tech		Date Collected:	
Project:	Ocean County Landfill 2024		Date Received:	
Client Sample ID:	VD1118SBSD01		SDG No.:	P4860
Lab Sample ID:	VD1118SBSD01		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:	RTX-VMS	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080061.D	1		11/18/24 11:22	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.6		1.70	5.00	ug/Kg
74-87-3	Chloromethane	17.2		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	17.9		0.77	5.00	ug/Kg
74-83-9	Bromomethane	17.1		1.00	5.00	ug/Kg
75-00-3	Chloroethane	17.5		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.7		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.1		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.7		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.9		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	21.7		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	21.4		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.2		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.2		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	19.0		0.69	5.00	ug/Kg
78-93-3	2-Butanone	100		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.5		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.3		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	18.2		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.0		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.6		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.6		0.87	5.00	ug/Kg
71-43-2	Benzene	20.8		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	22.1		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.6		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	21.3		0.67	5.00	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	VD1118SBSD01	SDG No.:	P4860
Lab Sample ID:	VD1118SBSD01	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:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080061.D	1		11/18/24 11:22	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.9		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.9		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.6		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	23.4		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	22.4		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.3		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.3		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.5		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.7		0.70	5.00	ug/Kg
100-42-5	Styrene	20.5		0.60	5.00	ug/Kg
75-25-2	Bromoform	21.6		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.9		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.9		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.6		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.9		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	19.8		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.8		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.0		70 (50) - 130 (163)	96%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	50.0		70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		70 (29) - 130 (146)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	7.875			
540-36-3	1,4-Difluorobenzene	285000	8.781			
3114-55-4	Chlorobenzene-d5	278000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	144000	13.516			

Report of Analysis

Client:	Tetra Tech			Date Collected:	
Project:	Ocean County Landfill 2024			Date Received:	
Client Sample ID:	VD1118SBSD01			SDG No.:	P4860
Lab Sample ID:	VD1118SBSD01			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:	RTX-VMS	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080061.D	1		11/18/24 11:22	VD111824

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_D\Data\VD111824\
 Data File : VD080061.D
 Acq On : 18 Nov 2024 11:22
 Operator : RP/MD
 Sample : VD1118SBS01
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1118SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 11/19/2024
 Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 04:45:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	185362	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	285036	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	278035	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	143766	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.234	65	91520	47.954	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	95.900%
35) Dibromofluoromethane	7.804	113	95269	50.221	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.440%
50) Toluene-d8	10.269	98	357642	50.021	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.040%
62) 4-Bromofluorobenzene	12.569	95	118231	50.402	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	100.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.934	85	27711	18.627	ug/l	96
3) Chloromethane	2.146	50	18864	17.243	ug/l	98
4) Vinyl Chloride	2.287	62	22305	17.859	ug/l	95
5) Bromomethane	2.681	94	23735	17.107	ug/l	99
6) Chloroethane	2.828	64	15612	17.487	ug/l	94
7) Trichlorofluoromethane	3.175	101	60472	19.713	ug/l	98
8) Diethyl Ether	3.593	74	18549	20.713	ug/l	91
9) 1,1,2-Trichlorotrifluo...	3.963	101	40273	21.016	ug/l	96
10) Methyl Iodide	4.163	142	44539	18.777	ug/l	99
11) Tert butyl alcohol	5.058	59	11246	113.233	ug/l #	89
12) 1,1-Dichloroethene	3.940	96	38601	20.097	ug/l	92
13) Acrolein	3.805	56	19112	100.288	ug/l	97
14) Allyl chloride	4.569	41	52572	19.309	ug/l	97
15) Acrylonitrile	5.263	53	40436	101.641	ug/l	99
16) Acetone	4.016	43	46288	111.783	ug/l	96
17) Carbon Disulfide	4.269	76	121638	19.667	ug/l	98
18) Methyl Acetate	4.563	43	19954	21.728	ug/l	98
19) Methyl tert-butyl Ether	5.322	73	81837	20.885	ug/l	97
20) Methylene Chloride	4.811	84	47572	21.422	ug/l	97
21) trans-1,2-Dichloroethene	5.310	96	42829	20.171	ug/l #	81
22) Diisopropyl ether	6.216	45	113961	20.670	ug/l #	98
23) Vinyl Acetate	6.157	43	321354	101.736	ug/l	100
24) 1,1-Dichloroethane	6.116	63	74136	20.218	ug/l	98
25) 2-Butanone	7.087	43	55369	102.323	ug/l	95
26) 2,2-Dichloropropane	7.075	77	63815	20.021	ug/l	99
27) cis-1,2-Dichloroethene	7.081	96	49363	20.258	ug/l	95
28) Bromochloromethane	7.428	49	29656	18.174	ug/l	89
29) Tetrahydrofuran	7.446	42	31093	104.899	ug/l	97
30) Chloroform	7.593	83	81001	20.968	ug/l	100
31) Cyclohexane	7.881	56	59148	19.032	ug/l #	84
32) 1,1,1-Trichloroethane	7.793	97	68251	20.645	ug/l	97
36) 1,1-Dichloropropene	8.010	75	52869	20.382	ug/l	99
37) Ethyl Acetate	7.169	43	25388	22.770	ug/l	96
38) Carbon Tetrachloride	7.993	117	60997	21.523	ug/l	98
39) Methylcyclohexane	9.275	83	60473	19.581	ug/l	96
40) Benzene	8.252	78	167798	20.753	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
 Data File : VD080061.D
 Acq On : 18 Nov 2024 11:22
 Operator : RP/MD
 Sample : VD1118SBS01
 Misc : 5.00G/5ml/MSVOA_D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1118SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 11/19/2024
 Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 04:45:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 15 16:25:47 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.404	41	12073	20.065	ug/l	97
42) 1,2-Dichloroethane	8.322	62	46347	22.149	ug/l	99
43) Isopropyl Acetate	8.363	43	44072	21.806	ug/l	96
44) Trichloroethene	9.028	130	42979	20.542	ug/l	96
45) 1,2-Dichloropropane	9.304	63	40991	21.096	ug/l	99
46) Dibromomethane	9.399	93	24900	22.032	ug/l	98
47) Bromodichloromethane	9.587	83	61171	21.624	ug/l #	97
48) Methyl methacrylate	9.381	41	19015	19.707	ug/l	90
49) 1,4-Dioxane	9.387	88	5756	555.192	ug/l	93
51) 4-Methyl-2-Pentanone	10.157	43	117209	114.304	ug/l	99
52) Toluene	10.334	92	107229	21.341	ug/l	97
53) t-1,3-Dichloropropene	10.551	75	52751	20.919	ug/l	94
54) cis-1,3-Dichloropropene	10.016	75	65369	21.896	ug/l	99
55) 1,1,2-Trichloroethane	10.734	97	33823	22.621	ug/l	95
56) Ethyl methacrylate	10.598	69	38127	21.929	ug/l	94
57) 1,3-Dichloropropane	10.875	76	51094	21.006	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.869	63	64512	98.103	ug/l	93
59) 2-Hexanone	10.922	43	80591	106.850	ug/l	96
60) Dibromochloromethane	11.075	129	45076	23.421	ug/l	99
61) 1,2-Dibromoethane	11.175	107	31528	22.364	ug/l	95
64) Tetrachloroethene	10.810	164	40493	20.451	ug/l	97
65) Chlorobenzene	11.604	112	122987	20.278	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.675	131	43662	20.681	ug/l	96
67) Ethyl Benzene	11.681	91	196392	19.298	ug/l	98
68) m/p-Xylenes	11.793	106	157181	39.521	ug/l	100
69) o-Xylene	12.122	106	70536	19.730	ug/l	95
70) Styrene	12.134	104	130977	20.526	ug/l	97
71) Bromoform	12.298	173	26906	21.615	ug/l #	96
73) Isopropylbenzene	12.422	105	184445	19.894	ug/l	100
74) N-amyl acetate	12.234	43	43046	21.072	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.669	83	38953	21.862	ug/l	97
76) 1,2,3-Trichloropropane	12.722	75	30446m	23.983	ug/l	
77) Bromobenzene	12.698	156	48840	20.271	ug/l	100
78) n-propylbenzene	12.763	91	230120	20.084	ug/l	98
79) 2-Chlorotoluene	12.845	91	136085	20.253	ug/l	99
80) 1,3,5-Trimethylbenzene	12.904	105	159585	20.338	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.469	75	13854	22.335	ug/l	93
82) 4-Chlorotoluene	12.945	91	146095	20.339	ug/l	97
83) tert-Butylbenzene	13.163	119	129416	19.044	ug/l	98
84) 1,2,4-Trimethylbenzene	13.210	105	164138	20.823	ug/l	99
85) sec-Butylbenzene	13.345	105	205507	20.459	ug/l	99
86) p-Isopropyltoluene	13.457	119	175424	20.661	ug/l	99
87) 1,3-Dichlorobenzene	13.457	146	100617	20.622	ug/l	99
88) 1,4-Dichlorobenzene	13.539	146	100511	20.512	ug/l	98
89) n-Butylbenzene	13.787	91	159355	19.949	ug/l	99
90) Hexachloroethane	14.051	117	37599	20.657	ug/l	98
91) 1,2-Dichlorobenzene	13.828	146	88869	20.889	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.445	75	6099	22.637	ug/l	97
93) 1,2,4-Trichlorobenzene	15.098	180	52820	19.799	ug/l	98
94) Hexachlorobutadiene	15.198	225	29372	20.371	ug/l	98
95) Naphthalene	15.328	128	93898	20.722	ug/l	99
96) 1,2,3-Trichlorobenzene	15.516	180	48809	20.834	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080061.D
Acq On : 18 Nov 2024 11:22
Operator : RP/MD
Sample : VD1118SBSD01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD1118SBSD01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 04:45:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

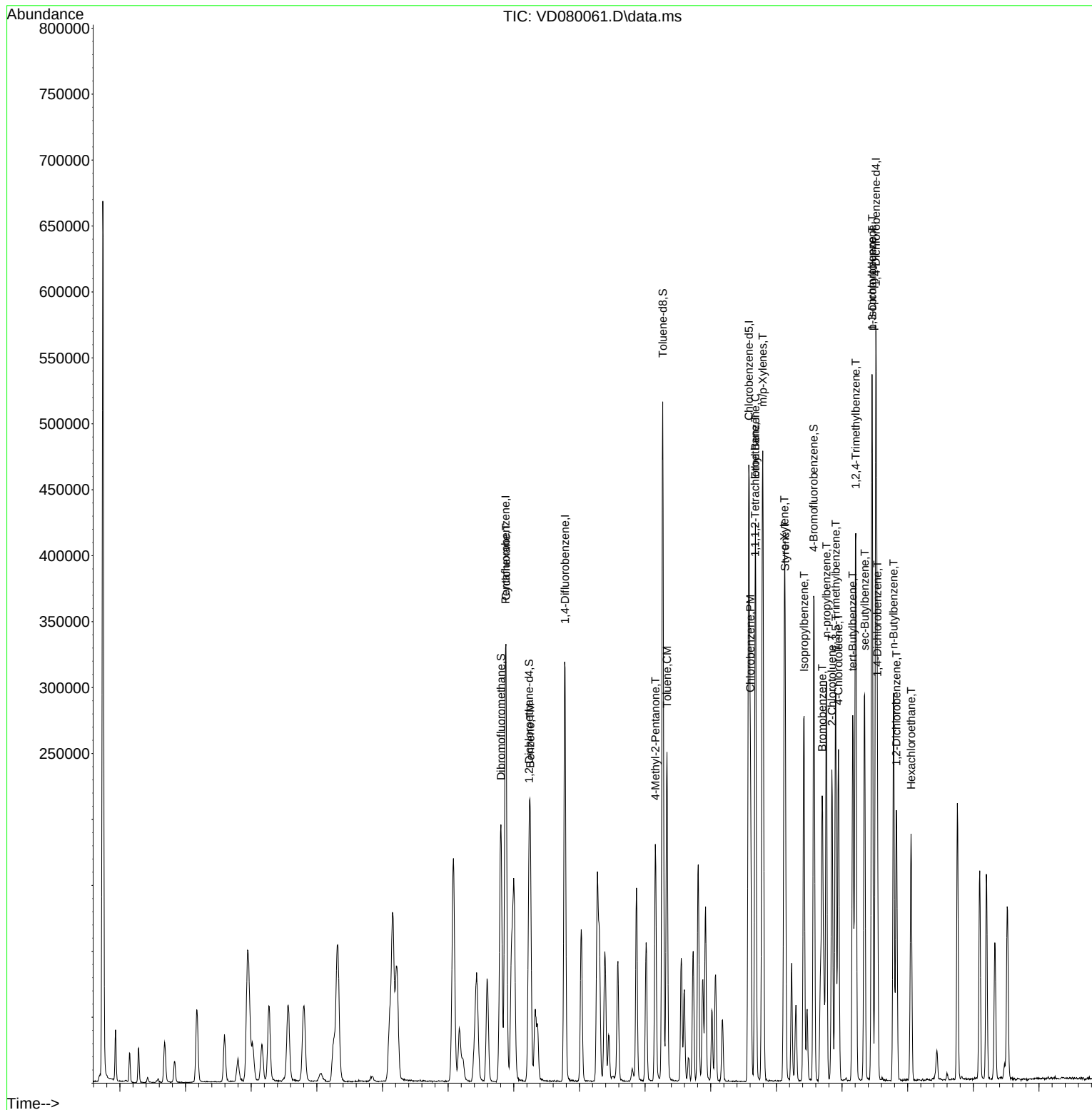
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_D
ClientSampleId :
VD1118SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024



Manual Integration Report

Sequence:	VD111524	Instrument	MSVOA_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VD080011.D	1,2,3-Trichloropropane	MMDadoda	11/18/2024 3:12:51 PM	SAM	11/18/2024 3:16:25 PM	Peak Integrated by Software
VSTDICC010	VD080012.D	1,2,3-Trichloropropane	MMDadoda	11/18/2024 3:12:51 PM	SAM	11/18/2024 3:16:28 PM	Peak Integrated by Software
VSTDICC020	VD080013.D	1,2,3-Trichloropropane	MMDadoda	11/18/2024 3:12:52 PM	SAM	11/18/2024 3:16:30 PM	Peak Integrated by Software
VSTDICCC050	VD080014.D	1,2,3-Trichloropropane	MMDadoda	11/18/2024 3:12:54 PM	SAM	11/18/2024 3:16:31 PM	Peak Integrated by Software
VSTDICC100	VD080015.D	1,2,3-Trichloropropane	MMDadoda	11/18/2024 3:12:56 PM	SAM	11/18/2024 3:16:33 PM	Peak Integrated by Software
VSTDICC150	VD080016.D	1,2,3-Trichloropropane	MMDadoda	11/18/2024 3:12:58 PM	SAM	11/18/2024 3:16:35 PM	Peak Integrated by Software
VSTDICV050	VD080017.D	1,2,3-Trichloropropane	MMDadoda	11/18/2024 3:13:00 PM	SAM	11/18/2024 3:16:37 PM	Peak Integrated by Software
VSTDICC005	VD080020.D	1,2,3-Trichloropropane	MMDadoda	11/18/2024 3:13:02 PM	SAM	11/18/2024 3:16:39 PM	Peak Integrated by Software
VSTDICC005	VD080020.D	Tert butyl alcohol	MMDadoda	11/18/2024 3:13:02 PM	SAM	11/18/2024 3:16:39 PM	Peak Integrated by Software
VSTDICC010	VD080021.D	1,2,3-Trichloropropane	MMDadoda	11/18/2024 3:13:04 PM	SAM	11/18/2024 3:16:41 PM	Peak Integrated by Software
VSTDICC020	VD080022.D	1,2,3-Trichloropropane	MMDadoda	11/18/2024 3:13:06 PM	SAM	11/18/2024 3:16:42 PM	Peak Integrated by Software
VSTDICCC050	VD080023.D	1,2,3-Trichloropropane	MMDadoda	11/18/2024 3:13:07 PM	SAM	11/18/2024 3:16:45 PM	Peak Integrated by Software
VSTDICC100	VD080024.D	1,2,3-Trichloropropane	MMDadoda	11/18/2024 3:13:09 PM	SAM	11/18/2024 3:16:46 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VD111524	Instrument	MSVOA_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC150	VD080025.D	1,2,3-Trichloropropane	MMDadoda	11/18/2024 3:13:11 PM	SAM	11/18/2024 3:16:48 PM	Peak Integrated by Software
VSTDICV050	VD080026.D	1,2,3-Trichloropropane	MMDadoda	11/18/2024 3:13:13 PM	SAM	11/18/2024 3:16:50 PM	Peak Integrated by Software
VSTDCCC050	VD080036.D	1,2,3-Trichloropropane	MMDadoda	11/18/2024 3:13:20 PM	SAM	11/18/2024 3:16:56 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VD111824

Instrument

MSVOA_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VD080058.D	1,2,3-Trichloropropane	Romaben	11/19/2024 11:04:19 AM	MMDadoda	11/19/2024 1:21:28 PM	Peak Integrated by Software
VD1118SBS01	VD080060.D	1,2,3-Trichloropropane	Romaben	11/19/2024 11:04:25 AM	MMDadoda	11/19/2024 1:21:28 PM	Peak Integrated by Software
VD1118SBSD0 1	VD080061.D	1,2,3-Trichloropropane	Romaben	11/19/2024 11:04:30 AM	MMDadoda	11/19/2024 1:21:29 PM	Peak Integrated by Software
VSTDCCC050	VD080080.D	1,2,3-Trichloropropane	Romaben	11/19/2024 11:04:35 AM	MMDadoda	11/19/2024 1:21:31 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY111924

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY020338.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:16:52 AM	MMDadoda	11/20/2024 1:00:46 PM	Peak Integrated by Software
VSTDICC005	VY020338.D	Ethyl Acetate	Romaben	11/20/2024 9:16:52 AM	MMDadoda	11/20/2024 1:00:46 PM	Peak Integrated by Software
VSTDICC005	VY020338.D	Tert butyl alcohol	Romaben	11/20/2024 9:16:52 AM	MMDadoda	11/20/2024 1:00:46 PM	Peak Integrated by Software
VSTDICC010	VY020339.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:16:57 AM	MMDadoda	11/20/2024 1:00:48 PM	Peak Integrated by Software
VSTDICC020	VY020340.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:17:07 AM	MMDadoda	11/20/2024 1:00:52 PM	Peak Integrated by Software
VSTDICC050	VY020341.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:18:09 AM	MMDadoda	11/20/2024 1:00:53 PM	Peak Integrated by Software
VSTDICC100	VY020342.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:17:14 AM	MMDadoda	11/20/2024 1:00:55 PM	Peak Integrated by Software
VSTDICC150	VY020343.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:17:19 AM	MMDadoda	11/20/2024 1:00:56 PM	Peak Integrated by Software
VSTDICV050	VY020345.D	1,2,3-Trichloropropane	Romaben	11/20/2024 9:17:24 AM	MMDadoda	11/20/2024 1:00:58 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY112024

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020347.D	1,2,3-Trichloropropane	MMDadoda	11/21/2024 3:23:29 PM	SAM	11/21/2024 3:24:44 PM	Peak Integrated by Software
VY1120SBS01	VY020349.D	1,2,3-Trichloropropane	MMDadoda	11/21/2024 3:23:29 PM	SAM	11/21/2024 3:24:43 PM	Peak Integrated by Software
VSTDCCC050	VY020371.D	1,2,3-Trichloropropane	MMDadoda	11/21/2024 3:23:33 PM	SAM	11/21/2024 3:24:46 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY112124

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020373.D	1,2,3-Trichloropropane	Romaben	11/22/2024 11:06:56 AM	MMDadoda	11/22/2024 3:31:17 PM	Peak Integrated by Software
VY1121SBS01	VY020375.D	1,2,3-Trichloropropane	Romaben	11/22/2024 11:07:00 AM	MMDadoda	11/22/2024 3:31:16 PM	Peak Integrated by Software
VSTDCCC050	VY020399.D	1,2,3-Trichloropropane	Romaben	11/22/2024 11:11:47 AM	MMDadoda	11/22/2024 3:31:21 PM	Peak Integrated by Software

Instrument ID: **MSVOA_D**

Daily Analysis Runlog For Sequence/QC Batch ID # VD111524

Review By	Mahesh Dadoda	Review On	11/18/2024 3:13:25 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/18/2024 3:17:20 PM
SubDirectory	VD111524	HP Acquire Method	HP Processing Method 82d111424s.m
STD. NAME	STD REF.#		
Tune/Reschk	VP131514		
Initial Calibration Stds	VP131516,VP131518,VP131520,VP131522,VP131524,VP131526		
CCC	VP131535,VP131536		
Internal Standard/PEM	VP128297		
ICV/I.BLK	VP131528		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VD080010.D	14 Nov 2024 17:14	RP/MD	Not Ok
2	VSTDIC005	VD080011.D	14 Nov 2024 18:02	RP/MD	Not Ok
3	VSTDIC010	VD080012.D	14 Nov 2024 18:29	RP/MD	Not Ok
4	VSTDIC020	VD080013.D	14 Nov 2024 18:56	RP/MD	Not Ok
5	VSTDIC050	VD080014.D	14 Nov 2024 19:22	RP/MD	Not Ok
6	VSTDIC100	VD080015.D	14 Nov 2024 19:49	RP/MD	Not Ok
7	VSTDIC150	VD080016.D	14 Nov 2024 20:16	RP/MD	Not Ok
8	VSTDICV050	VD080017.D	14 Nov 2024 20:43	RP/MD	Not Ok
9	VIBLK	VD080018.D	14 Nov 2024 21:36	RP/MD	Not Ok
10	BFB	VD080019.D	15 Nov 2024 09:14	RP/MD	Ok
11	VSTDIC005	VD080020.D	15 Nov 2024 10:04	RP/MD	Ok,M
12	VSTDIC010	VD080021.D	15 Nov 2024 10:31	RP/MD	Ok,M
13	VSTDIC020	VD080022.D	15 Nov 2024 10:58	RP/MD	Ok,M
14	VSTDIC050	VD080023.D	15 Nov 2024 11:24	RP/MD	Ok,M
15	VSTDIC100	VD080024.D	15 Nov 2024 11:51	RP/MD	Ok,M
16	VSTDIC150	VD080025.D	15 Nov 2024 12:18	RP/MD	Ok,M
17	VSTDICV050	VD080026.D	15 Nov 2024 15:44	RP/MD	Ok,M
18	VD1115SBL01	VD080027.D	15 Nov 2024 16:19	RP/MD	Ok
19	VD1115SBS01	VD080028.D	15 Nov 2024 16:46	RP/MD	Ok,M
20	P4837-03	VD080029.D	15 Nov 2024 17:13	RP/MD	Ok
21	P4836-03	VD080030.D	15 Nov 2024 17:40	RP/MD	ReRun

Instrument ID: **MSVOA_D**

Daily Analysis Runlog For Sequence/QC Batch ID # VD111524

Review By	Maresh Dadoda	Review On	11/18/2024 3:13:25 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/18/2024 3:17:20 PM
SubDirectory	VD111524	HP Acquire Method	HP Processing Method 82d111424s.m
STD. NAME	STD REF.#		
Tune/Reschk	VP131514		
Initial Calibration Stds	VP131516,VP131518,VP131520,VP131522,VP131524,VP131526		
CCC	VP131535,VP131536		
Internal Standard/PEM	VP128297		
ICV/I.BLK	VP131528		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P4835-03	VD080031.D	15 Nov 2024 18:07	RP/MD	Ok
23	P4834-03	VD080032.D	15 Nov 2024 18:34	RP/MD	ReRun
24	P4838-03	VD080033.D	15 Nov 2024 19:01	RP/MD	ReRun
25	P4833-03	VD080034.D	15 Nov 2024 19:28	RP/MD	Not Ok
26	VD1115SBSD01	VD080035.D	15 Nov 2024 19:55	RP/MD	Ok,M
27	VSTDCCC050	VD080036.D	15 Nov 2024 20:22	RP/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_D**

Daily Analysis Runlog For Sequence/QC Batch ID # VD111824

Review By	Maresh Dadoda	Review On	11/19/2024 1:21:34 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/19/2024 1:22:24 PM		
SubDirectory	VD111824	HP Acquire Method	MSVOA_D	HP Processing Method	82d111424s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131590			
CCC		VP131593,VP131594			
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	VD080057.D	18 Nov 2024 09:21	RP/MD	Ok
2	VSTDCCC050	VD080058.D	18 Nov 2024 09:51	RP/MD	Ok,M
3	VD1118SBL01	VD080059.D	18 Nov 2024 10:27	RP/MD	Ok
4	VD1118SBS01	VD080060.D	18 Nov 2024 10:55	RP/MD	Ok,M
5	VD1118SBS01	VD080061.D	18 Nov 2024 11:22	RP/MD	Ok,M
6	P4825-01RE	VD080062.D	18 Nov 2024 12:08	RP/MD	Confirms
7	P4824-01RE	VD080063.D	18 Nov 2024 12:35	RP/MD	Confirms
8	P4857-03RE	VD080064.D	18 Nov 2024 13:02	RP/MD	Confirms
9	P4859-01	VD080065.D	18 Nov 2024 13:30	RP/MD	Ok
10	P4869-01	VD080066.D	18 Nov 2024 13:57	RP/MD	Ok
11	P4848-01	VD080067.D	18 Nov 2024 14:24	RP/MD	ReRun
12	P4852-01	VD080068.D	18 Nov 2024 14:51	RP/MD	ReRun
13	P4852-02	VD080069.D	18 Nov 2024 15:18	RP/MD	ReRun
14	P4852-03	VD080070.D	18 Nov 2024 15:45	RP/MD	ReRun
15	P4850-01	VD080071.D	18 Nov 2024 16:12	RP/MD	Ok
16	P4860-01	VD080072.D	18 Nov 2024 16:39	RP/MD	Ok
17	P4860-02	VD080073.D	18 Nov 2024 17:06	RP/MD	Ok
18	P4860-03	VD080074.D	18 Nov 2024 17:33	RP/MD	ReRun
19	P4860-04	VD080075.D	18 Nov 2024 18:00	RP/MD	Ok
20	P4860-05	VD080076.D	18 Nov 2024 18:28	RP/MD	Ok
21	P4860-06	VD080077.D	18 Nov 2024 18:55	RP/MD	Not Ok

Instrument ID: **MSVOA_D**

Daily Analysis Runlog For Sequence/QC Batch ID # VD111824

Review By	Mahesh Dadoda	Review On	11/19/2024 1:21:34 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/19/2024 1:22:24 PM		
SubDirectory	VD111824	HP Acquire Method	MSVOA_D	HP Processing Method	82d111424s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131590			
CCC		VP131593,VP131594			
Internal Standard/PEM		VP128297			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	P4860-07	VD080078.D	18 Nov 2024 19:22	RP/MD	Ok
23	P4860-08	VD080079.D	18 Nov 2024 19:49	RP/MD	Ok
24	VSTDCCC050	VD080080.D	18 Nov 2024 20:16	RP/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY111924

Review By	Mahesh Dadoda	Review On	11/20/2024 1:01:03 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/20/2024 1:03:18 PM
SubDirectory	VY111924	HP Acquire Method	HP Processing Method 82y111924s.m
STD. NAME	STD REF.#		
Tune/Reschk	VP131638		
Initial Calibration Stds	VP131639,VP131640,VP131641,VP131642,VP131643,VP131644		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP131645		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020337.D	19 Nov 2024 14:40	SY/MD	Ok
2	VSTDIC005	VY020338.D	19 Nov 2024 15:49	SY/MD	Ok,M
3	VSTDIC010	VY020339.D	19 Nov 2024 16:12	SY/MD	Ok,M
4	VSTDIC020	VY020340.D	19 Nov 2024 16:35	SY/MD	Ok,M
5	VSTDIC050	VY020341.D	19 Nov 2024 16:57	SY/MD	Ok,M
6	VSTDIC100	VY020342.D	19 Nov 2024 17:20	SY/MD	Ok,M
7	VSTDIC150	VY020343.D	19 Nov 2024 17:42	SY/MD	Ok,M
8	VIBLK	VY020344.D	19 Nov 2024 18:06	SY/MD	Ok
9	VSTDICV050	VY020345.D	19 Nov 2024 18:52	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY112024

Review By	Mahesh Dadoda	Review On	11/21/2024 3:23:29 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/21/2024 3:24:50 PM		
SubDirectory	VY112024	HP Acquire Method	MSVOA_Y	HP Processing Method	82y111924s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131659			
CCC		VP131661,VP131662			
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	VY020346.D	20 Nov 2024 08:23	SY/MD	Ok
2	VSTDCCC050	VY020347.D	20 Nov 2024 09:34	SY/MD	Ok,M
3	VY1120SBL01	VY020348.D	20 Nov 2024 10:07	SY/MD	Ok
4	VY1120SBS01	VY020349.D	20 Nov 2024 10:53	SY/MD	Ok,M
5	VY1120SBSD01	VY020350.D	20 Nov 2024 11:16	SY/MD	Ok,M
6	P4910-07	VY020351.D	20 Nov 2024 11:57	SY/MD	ReRun
7	P4910-03	VY020352.D	20 Nov 2024 12:20	SY/MD	ReRun
8	P4929-01	VY020353.D	20 Nov 2024 12:44	SY/MD	ReRun
9	P4924-03	VY020354.D	20 Nov 2024 13:07	SY/MD	Ok
10	P4916-03	VY020355.D	20 Nov 2024 13:30	SY/MD	Ok
11	P4916-07	VY020356.D	20 Nov 2024 13:54	SY/MD	Ok
12	P4916-11	VY020357.D	20 Nov 2024 14:17	SY/MD	Ok
13	P4909-02	VY020358.D	20 Nov 2024 14:41	SY/MD	ReRun
14	P4908-01	VY020359.D	20 Nov 2024 15:04	SY/MD	Ok
15	P4908-03	VY020360.D	20 Nov 2024 15:27	SY/MD	ReRun
16	P4870-03	VY020361.D	20 Nov 2024 15:51	SY/MD	ReRun
17	P4870-12	VY020362.D	20 Nov 2024 16:14	SY/MD	ReRun
18	P4870-09	VY020363.D	20 Nov 2024 16:38	SY/MD	Ok
19	P4870-06	VY020364.D	20 Nov 2024 17:01	SY/MD	ReRun
20	P4849-01	VY020365.D	20 Nov 2024 17:24	SY/MD	Ok
21	P4887-04	VY020366.D	20 Nov 2024 17:48	SY/MD	Ok

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY112024

Review By	Mahesh Dadoda	Review On	11/21/2024 3:23:29 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/21/2024 3:24:50 PM		
SubDirectory	VY112024	HP Acquire Method	MSVOA_Y	HP Processing Method	82y111924s.m
STD. NAME	STD REF.#				
Tune/Reschk Initial Calibration Stds	VP131659				
CCC	VP131661,VP131662				
Internal Standard/PEM	VP128297				
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	P4887-08	VY020367.D	20 Nov 2024 18:11	SY/MD	Ok
23	P4860-03	VY020368.D	20 Nov 2024 18:35	SY/MD	Ok
24	P4860-06	VY020369.D	20 Nov 2024 18:58	SY/MD	Ok
25	P4768-04	VY020370.D	20 Nov 2024 19:22	SY/MD	Ok
26	VSTDCCC050	VY020371.D	20 Nov 2024 19:44	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY112124

Review By	Mahesh Dadoda	Review On	11/22/2024 3:31:25 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/22/2024 3:36:07 PM
SubDirectory	VY112124	HP Acquire Method	HP Processing Method 82y111924s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131692		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131693,VP131694 VP128297		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020372.D	21 Nov 2024 08:32	SY/MD	Ok
2	VSTDCCC050	VY020373.D	21 Nov 2024 09:25	SY/MD	Ok,M
3	VY1121SBL01	VY020374.D	21 Nov 2024 09:59	SY/MD	Ok
4	VY1121SBS01	VY020375.D	21 Nov 2024 10:39	SY/MD	Ok,M
5	VY1121SBSD01	VY020376.D	21 Nov 2024 11:02	SY/MD	Ok,M
6	P4852-01	VY020377.D	21 Nov 2024 11:25	SY/MD	Ok
7	P4852-02RE	VY020378.D	21 Nov 2024 11:49	SY/MD	Confirms
8	P4852-03	VY020379.D	21 Nov 2024 12:12	SY/MD	Ok
9	P4908-03	VY020380.D	21 Nov 2024 12:36	SY/MD	Ok
10	P4909-02	VY020381.D	21 Nov 2024 12:59	SY/MD	Ok
11	P4929-01RE	VY020382.D	21 Nov 2024 13:23	SY/MD	Confirms
12	P4910-07	VY020383.D	21 Nov 2024 13:46	SY/MD	Ok
13	P4910-03	VY020384.D	21 Nov 2024 14:09	SY/MD	Ok
14	P4870-03	VY020385.D	21 Nov 2024 14:33	SY/MD	Ok
15	P4870-06	VY020386.D	21 Nov 2024 14:56	SY/MD	Ok
16	P4870-12	VY020387.D	21 Nov 2024 15:20	SY/MD	Ok
17	P4892-02	VY020388.D	21 Nov 2024 15:43	SY/MD	ReRun
18	P4860-10	VY020389.D	21 Nov 2024 16:06	SY/MD	Ok
19	P4860-09	VY020390.D	21 Nov 2024 16:30	SY/MD	Ok
20	P4925-03	VY020391.D	21 Nov 2024 16:53	SY/MD	Ok
21	P4893-03	VY020392.D	21 Nov 2024 17:17	SY/MD	Ok

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY112124

Review By	Maresh Dadoda	Review On	11/22/2024 3:31:25 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/22/2024 3:36:07 PM
SubDirectory	VY112124	HP Acquire Method	HP Processing Method 82y111924s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131692		
CCC	VP131693,VP131694		
Internal Standard/PEM	VP128297		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P4893-07	VY020393.D	21 Nov 2024 17:40	SY/MD	Ok
23	P4925-07	VY020394.D	21 Nov 2024 18:04	SY/MD	Ok
24	P4892-01	VY020395.D	21 Nov 2024 18:27	SY/MD	Ok
25	P4938-07	VY020396.D	21 Nov 2024 18:50	SY/MD	Ok
26	P4938-03	VY020397.D	21 Nov 2024 19:14	SY/MD	Ok
27	P4936-01	VY020398.D	21 Nov 2024 19:37	SY/MD	ReRun
28	VSTDCCC050	VY020399.D	21 Nov 2024 20:00	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_D

Daily Analysis Runlog For Sequence/QC Batch ID # VD111524

Review By	Mahesh Dadoda	Review On	11/18/2024 3:13:25 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/18/2024 3:17:20 PM
SubDirectory	VD111524	HP Acquire Method	HP Processing Method 82d111424s.m
STD. NAME	STD REF.#		
Tune/Reschk	VP131514		
Initial Calibration Stds	VP131516,VP131518,VP131520,VP131522,VP131524,VP131526		
CCC	VP131535,VP131536		
Internal Standard/PEM	VP128297		
ICV/I.BLK	VP131528		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VD080010.D	14 Nov 2024 17:14	Method failed for Comp. #05	RP/MD	Not Ok
2	VSTDICC005	VSTDICC005	VD080011.D	14 Nov 2024 18:02	%D failed for Comp. #16 in 05PPB	RP/MD	Not Ok
3	VSTDICC010	VSTDICC010	VD080012.D	14 Nov 2024 18:29		RP/MD	Not Ok
4	VSTDICC020	VSTDICC020	VD080013.D	14 Nov 2024 18:56		RP/MD	Not Ok
5	VSTDICCC050	VSTDICCC050	VD080014.D	14 Nov 2024 19:22	Comp. #10,16 are on Quadratic Regression	RP/MD	Not Ok
6	VSTDICC100	VSTDICC100	VD080015.D	14 Nov 2024 19:49		RP/MD	Not Ok
7	VSTDICC150	VSTDICC150	VD080016.D	14 Nov 2024 20:16		RP/MD	Not Ok
8	VSTDICV050	ICVVD111524	VD080017.D	14 Nov 2024 20:43	ICV Failed for comp. #13	RP/MD	Not Ok
9	VIBLK	VIBLK	VD080018.D	14 Nov 2024 21:36		RP/MD	Not Ok
10	BFB	BFB	VD080019.D	15 Nov 2024 09:14		RP/MD	Ok
11	VSTDICC005	VSTDICC005	VD080020.D	15 Nov 2024 10:04	QR @ comp #05	RP/MD	Ok,M
12	VSTDICC010	VSTDICC010	VD080021.D	15 Nov 2024 10:31	%D fail for comp #05 in 10PPB	RP/MD	Ok,M
13	VSTDICC020	VSTDICC020	VD080022.D	15 Nov 2024 10:58		RP/MD	Ok,M
14	VSTDICCC050	VSTDICCC050	VD080023.D	15 Nov 2024 11:24		RP/MD	Ok,M
15	VSTDICC100	VSTDICC100	VD080024.D	15 Nov 2024 11:51		RP/MD	Ok,M
16	VSTDICC150	VSTDICC150	VD080025.D	15 Nov 2024 12:18		RP/MD	Ok,M
17	VSTDICV050	ICVVD111524	VD080026.D	15 Nov 2024 15:44		RP/MD	Ok,M

Instrument ID: MSVOA_D

Daily Analysis Runlog For Sequence/QC Batch ID # VD111524

Review By	Maresh Dadoda	Review On	11/18/2024 3:13:25 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/18/2024 3:17:20 PM
SubDirectory	VD111524	HP Acquire Method	HP Processing Method 82d111424s.m
STD. NAME	STD REF.#		
Tune/Reschk	VP131514		
Initial Calibration Stds	VP131516,VP131518,VP131520,VP131522,VP131524,VP131526		
CCC	VP131535,VP131536		
Internal Standard/PEM	VP128297		
ICV/I.BLK	VP131528		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	VD1115SBL01	VBLK21	VD080027.D	15 Nov 2024 16:19		RP/MD	Ok
19	VD1115SBS01	VD1115SBS01	VD080028.D	15 Nov 2024 16:46		RP/MD	Ok,M
20	P4837-03	3TRK-STONE	VD080029.D	15 Nov 2024 17:13	vial-A	RP/MD	Ok
21	P4836-03	T3-STONE	VD080030.D	15 Nov 2024 17:40	ISTD Fail vial-A	RP/MD	ReRun
22	P4835-03	345-2-STONE	VD080031.D	15 Nov 2024 18:07	vial-A	RP/MD	Ok
23	P4834-03	SLP-1-STONE	VD080032.D	15 Nov 2024 18:34	Internal Standard and Surrogate Fail VIAL- A	RP/MD	ReRun
24	P4838-03	T1-STONE	VD080033.D	15 Nov 2024 19:01	ISTD Fail :Vial- A	RP/MD	ReRun
25	P4833-03	MH-731-VOC	VD080034.D	15 Nov 2024 19:28	Internal not spike; Surrogate fail Vial- A	RP/MD	Not Ok
26	VD1115SBSD01	VD1115SBSD01	VD080035.D	15 Nov 2024 19:55		RP/MD	Ok,M
27	VSTDCCC050	VSTD05021	VD080036.D	15 Nov 2024 20:22		RP/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_D

Daily Analysis Runlog For Sequence/QC Batch ID # VD111824

Review By	Maresh Dadoda	Review On	11/19/2024 1:21:34 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/19/2024 1:22:24 PM
SubDirectory	VD111824	HP Acquire Method	MSVOA_D HP Processing Method 82d111424s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131590
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131593,VP131594 VP128297

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VD080057.D	18 Nov 2024 09:21		RP/MD	Ok
2	VSTDCCC050	VSTDCCC050	VD080058.D	18 Nov 2024 09:51		RP/MD	Ok,M
3	VD1118SBL01	VD1118SBL01	VD080059.D	18 Nov 2024 10:27		RP/MD	Ok
4	VD1118SBS01	VD1118SBS01	VD080060.D	18 Nov 2024 10:55		RP/MD	Ok,M
5	VD1118SBSD01	VD1118SBSD01	VD080061.D	18 Nov 2024 11:22		RP/MD	Ok,M
6	P4825-01RE	STOCK-PILERE	VD080062.D	18 Nov 2024 12:08	Internal Standard Fail ;Surrogate fail VIAL- B	RP/MD	Confirms
7	P4824-01RE	T-20RE	VD080063.D	18 Nov 2024 12:35	Internal Standard Fail ;Surrogate fail VIAL- B	RP/MD	Confirms
8	P4857-03RE	VNJ-226RE	VD080064.D	18 Nov 2024 13:02	ISTD Fail vial-B	RP/MD	Confirms
9	P4859-01	NB-08-111424	VD080065.D	18 Nov 2024 13:30	vial-B	RP/MD	Ok
10	P4869-01	EO-02-11152024	VD080066.D	18 Nov 2024 13:57	vial-A	RP/MD	Ok
11	P4848-01	TP-1	VD080067.D	18 Nov 2024 14:24	Internal Standard Fail ;Surrogate fail VIAL- A	RP/MD	ReRun
12	P4852-01	COMP-1	VD080068.D	18 Nov 2024 14:51	Internal Standard Fail ;Surrogate fail VIAL- A	RP/MD	ReRun
13	P4852-02	COMP-2	VD080069.D	18 Nov 2024 15:18	Internal Standard Fail ;Surrogate fail VIAL- A	RP/MD	ReRun
14	P4852-03	COMP-3	VD080070.D	18 Nov 2024 15:45	Internal Standard Fail ;Surrogate fail VIAL- A	RP/MD	ReRun
15	P4850-01	OR-03-11142024	VD080071.D	18 Nov 2024 16:12	vial-A	RP/MD	Ok
16	P4860-01	DUP-01	VD080072.D	18 Nov 2024 16:39	vial-A	RP/MD	Ok

Instrument ID: MSVOA_D

Daily Analysis Runlog For Sequence/QC Batch ID # VD111824

Review By	Mahesh Dadoda	Review On	11/19/2024 1:21:34 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/19/2024 1:22:24 PM		
SubDirectory	VD111824	HP Acquire Method	MSVOA_D	HP Processing Method	82d111424s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131590			
CCC		VP131593,VP131594			
Internal Standard/PEM		VP128297			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

17	P4860-02	PH2-BOT-001	VD080073.D	18 Nov 2024 17:06	vial-A	RP/MD	Ok
18	P4860-03	PH2-BOT-002	VD080074.D	18 Nov 2024 17:33	Internal Standard Fail vial-A	RP/MD	ReRun
19	P4860-04	PH2-BPT-003	VD080075.D	18 Nov 2024 18:00	vial-A	RP/MD	Ok
20	P4860-05	PH2-BPT-004	VD080076.D	18 Nov 2024 18:28	vial-A	RP/MD	Ok
21	P4860-06	PH2-BPT-009	VD080077.D	18 Nov 2024 18:55	vial-A comp.#81 is out of range	RP/MD	Not Ok
22	P4860-07	PH2-BOT-008	VD080078.D	18 Nov 2024 19:22	vial-A	RP/MD	Ok
23	P4860-08	PH2-BOT-007	VD080079.D	18 Nov 2024 19:49	vial-A	RP/MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VD080080.D	18 Nov 2024 20:16		RP/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY111924

Review By	Maresh Dadoda	Review On	11/20/2024 1:01:03 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/20/2024 1:03:18 PM
SubDirectory	VY111924	HP Acquire Method	HP Processing Method 82y111924s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131638 VP131639,VP131640,VP131641,VP131642,VP131643,VP131644 VP131645

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020337.D	19 Nov 2024 14:40		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY020338.D	19 Nov 2024 15:49		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY020339.D	19 Nov 2024 16:12		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY020340.D	19 Nov 2024 16:35		SY/MD	Ok,M
5	VSTDICC050	VSTDICC050	VY020341.D	19 Nov 2024 16:57	Comp.#3 is on Linear Regression	SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY020342.D	19 Nov 2024 17:20	Comp.#11 is on Quadratic Regression	SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY020343.D	19 Nov 2024 17:42		SY/MD	Ok,M
8	VIBLK	VIBLK	VY020344.D	19 Nov 2024 18:06		SY/MD	Ok
9	VSTDICV050	ICVVY111924	VY020345.D	19 Nov 2024 18:52		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY112024

Review By	Maresh Dadoda	Review On	11/21/2024 3:23:29 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/21/2024 3:24:50 PM
SubDirectory	VY112024	HP Acquire Method	MSVOA_Y HP Processing Method 82y111924s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131659
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131661,VP131662 VP128297

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020346.D	20 Nov 2024 08:23		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020347.D	20 Nov 2024 09:34		SY/MD	Ok,M
3	VY1120SBL01	VY1120SBL01	VY020348.D	20 Nov 2024 10:07		SY/MD	Ok
4	VY1120SBS01	VY1120SBS01	VY020349.D	20 Nov 2024 10:53		SY/MD	Ok,M
5	VY1120SBSD01	VY1120SBSD01	VY020350.D	20 Nov 2024 11:16		SY/MD	Ok,M
6	P4910-07	MH-759-VOC	VY020351.D	20 Nov 2024 11:57	Internal Standard Fail vial-A	SY/MD	ReRun
7	P4910-03	MH-COTTAGE-VOC	VY020352.D	20 Nov 2024 12:20	Internal Standard Fail vial-A	SY/MD	ReRun
8	P4929-01	ARS520	VY020353.D	20 Nov 2024 12:44	Internal Standard Fail vial-A	SY/MD	ReRun
9	P4924-03	MH-4-VOC	VY020354.D	20 Nov 2024 13:07	vial-A	SY/MD	Ok
10	P4916-03	TP-1-VOC	VY020355.D	20 Nov 2024 13:30	vial-A	SY/MD	Ok
11	P4916-07	TP-2-VOC	VY020356.D	20 Nov 2024 13:54	vial-A	SY/MD	Ok
12	P4916-11	TP-3-VOC	VY020357.D	20 Nov 2024 14:17	vial-A	SY/MD	Ok
13	P4909-02	BU-02-111824	VY020358.D	20 Nov 2024 14:41	Internal Standard Fail vial-A	SY/MD	ReRun
14	P4908-01	SP-1	VY020359.D	20 Nov 2024 15:04	vial-A	SY/MD	Ok
15	P4908-03	SP-2	VY020360.D	20 Nov 2024 15:27	Internal Standard Fail vial-A	SY/MD	ReRun
16	P4870-03	TP-1-VOC	VY020361.D	20 Nov 2024 15:51	Internal Standard Fail vial-A	SY/MD	ReRun
17	P4870-12	TP-15-VOC	VY020362.D	20 Nov 2024 16:14	Internal Standard Fail vial-A	SY/MD	ReRun
18	P4870-09	MH-736-VOC	VY020363.D	20 Nov 2024 16:38	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY112024

Review By	Mahesh Dadoda	Review On	11/21/2024 3:23:29 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/21/2024 3:24:50 PM		
SubDirectory	VY112024	HP Acquire Method	MSVOA_Y	HP Processing Method	82y111924s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131659			
CCC		VP131661,VP131662			
Internal Standard/PEM		VP128297			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	P4870-06	MH-735-VOC	VY020364.D	20 Nov 2024 17:01	Internal Standard Fail vial-A	SY/MD	ReRun
20	P4849-01	RR-1	VY020365.D	20 Nov 2024 17:24	vial-A	SY/MD	Ok
21	P4887-04	MH-739-VOC	VY020366.D	20 Nov 2024 17:48	vial-A	SY/MD	Ok
22	P4887-08	MH-760-VOC	VY020367.D	20 Nov 2024 18:11	vial-A	SY/MD	Ok
23	P4860-03	PH2-BOT-002	VY020368.D	20 Nov 2024 18:35	vial-B	SY/MD	Ok
24	P4860-06	PH2-BOT-009	VY020369.D	20 Nov 2024 18:58	vial-B	SY/MD	Ok
25	P4768-04	B-4	VY020370.D	20 Nov 2024 19:22	vial-B	SY/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VY020371.D	20 Nov 2024 19:44		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY112124

Review By	Maresh Dadoda	Review On	11/22/2024 3:31:25 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/22/2024 3:36:07 PM
SubDirectory	VY112124	HP Acquire Method	HP Processing Method 82y111924s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131692
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131693,VP131694 VP128297

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020372.D	21 Nov 2024 08:32		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020373.D	21 Nov 2024 09:25		SY/MD	Ok,M
3	VY1121SBL01	VY1121SBL01	VY020374.D	21 Nov 2024 09:59		SY/MD	Ok
4	VY1121SBS01	VY1121SBS01	VY020375.D	21 Nov 2024 10:39		SY/MD	Ok,M
5	VY1121SBSD01	VY1121SBSD01	VY020376.D	21 Nov 2024 11:02		SY/MD	Ok,M
6	P4852-01	COMP-1	VY020377.D	21 Nov 2024 11:25	vial-B	SY/MD	Ok
7	P4852-02RE	COMP-2RE	VY020378.D	21 Nov 2024 11:49	ISTD Fail vial-B	SY/MD	Confirms
8	P4852-03	COMP-3	VY020379.D	21 Nov 2024 12:12	vial-B	SY/MD	Ok
9	P4908-03	SP-2	VY020380.D	21 Nov 2024 12:36	Vial-B	SY/MD	Ok
10	P4909-02	BU-02-111824	VY020381.D	21 Nov 2024 12:59	Vial-B	SY/MD	Ok
11	P4929-01RE	ARS520RE	VY020382.D	21 Nov 2024 13:23	Internal Standard Fail vial-B	SY/MD	Confirms
12	P4910-07	MH-759-VOC	VY020383.D	21 Nov 2024 13:46	vial-B	SY/MD	Ok
13	P4910-03	MH-COTTAGE-VOC	VY020384.D	21 Nov 2024 14:09	vial-B	SY/MD	Ok
14	P4870-03	TP-1-VOC	VY020385.D	21 Nov 2024 14:33	vial-B	SY/MD	Ok
15	P4870-06	MH-735-VOC	VY020386.D	21 Nov 2024 14:56	vial-B	SY/MD	Ok
16	P4870-12	TP-15-VOC	VY020387.D	21 Nov 2024 15:20	vial-B	SY/MD	Ok
17	P4892-02	WB-310-BOT	VY020388.D	21 Nov 2024 15:43	Internal Standard Fail vial-B	SY/MD	ReRun
18	P4860-10	PH2-BOT-005	VY020389.D	21 Nov 2024 16:06	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY112124

Review By	Mahesh Dadoda	Review On	11/22/2024 3:31:25 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/22/2024 3:36:07 PM
SubDirectory	VY112124	HP Acquire Method	HP Processing Method 82y111924s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131692		
CCC	VP131693,VP131694		
Internal Standard/PEM	VP128297		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P4860-09	PH2-BOT-006	VY020390.D	21 Nov 2024 16:30	vial-A	SY/MD	Ok
20	P4925-03	MH-741-VOC	VY020391.D	21 Nov 2024 16:53	vial-A	SY/MD	Ok
21	P4893-03	MH-763-VOC	VY020392.D	21 Nov 2024 17:17	vial-A	SY/MD	Ok
22	P4893-07	MH-762-VOC	VY020393.D	21 Nov 2024 17:40	vial-A	SY/MD	Ok
23	P4925-07	MH-758-VOC	VY020394.D	21 Nov 2024 18:04	vial-A	SY/MD	Ok
24	P4892-01	WB-310-TOP	VY020395.D	21 Nov 2024 18:27	vial-A	SY/MD	Ok
25	P4938-07	MH-734-VOC	VY020396.D	21 Nov 2024 18:50	vial-A	SY/MD	Ok
26	P4938-03	MH-732-VOC	VY020397.D	21 Nov 2024 19:14	vial-A	SY/MD	Ok
27	P4936-01	PL-01-11202024	VY020398.D	21 Nov 2024 19:37	Internal Standard Fail vial-A	SY/MD	ReRun
28	VSTDCCC050	VSTDCCC050EC	VY020399.D	21 Nov 2024 20:00		SY/MD	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/18/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 11/15/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 11/16/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133466

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
P4851-01	OK-02-11142024	1	1.15	8.40	9.55	9.06	94.2	
P4851-02	OK-02-11142024-E2	2	1.16	8.50	9.66	9.32	96.0	
P4860-01	DUP-01	15	1.15	8.38	9.53	9.26	96.8	
P4860-02	PH2-BPT-001	16	1.18	8.50	9.68	9.41	96.8	
P4860-03	PH2-BPT-002	17	1.16	8.47	9.63	9.34	96.6	
P4860-04	PH2-BPT-003	18	1.15	8.49	9.64	9.45	97.8	
P4860-05	PH2-BPT-004	19	1.16	8.78	9.94	9.77	98.1	
P4860-06	PH2-BPT-009	20	1.19	8.59	9.78	9.63	98.3	
P4860-07	PH2-BPT-008	21	1.16	8.48	9.64	9.37	96.8	
P4860-08	PH2-BPT-007	22	1.16	8.48	9.64	9.47	98.0	
P4860-09	PH2-BPT-006	23	1.15	8.81	9.96	9.74	97.5	
P4860-10	PH2-BPT-005	24	1.13	8.85	9.98	9.77	97.6	
P4862-01	Y2404-0033-END-1-1	45	1.00	1.00	2.00	2.00	100.0	oilc
P4862-02	Y2404-0033-END-1-2	46	1.00	1.00	2.00	2.00	100.0	oilc
P4862-03	Y2404-END-1-1	47	1.00	1.00	2.00	2.00	100.0	oilc
P4862-04	Y2404-END-1-2	48	1.00	1.00	2.00	2.00	100.0	oilc
P4862-05	KMH4671-END-1-1	49	1.00	1.00	2.00	2.00	100.0	oilc
P4862-06	KMH4671-END-1-2	50	1.00	1.00	2.00	2.00	100.0	oilc
P4862-07	W029060-END-1-1	51	1.00	1.00	2.00	2.00	100.0	oilc
P4862-08	W029060-END-1-2	52	1.00	1.00	2.00	2.00	100.0	oilc
P4865-01	02-9042-1-1	41	1.00	1.00	2.00	2.00	100.0	oilc
P4865-02	02-9042-1-2	42	1.00	1.00	2.00	2.00	100.0	oilc
P4865-03	BC271303-1-1	43	1.00	1.00	2.00	2.00	100.0	oilc
P4865-04	BC271303-1-2	44	1.00	1.00	2.00	2.00	100.0	oilc
P4869-01	EO-02-11152024	53	1.16	8.50	9.66	8.89	90.9	
P4869-02	EO-02-11152024-E2	54	1.18	8.52	9.7	9.1	93.0	
P4870-01	TP-1	3	1.14	8.69	9.83	8.9	89.3	
P4870-02	TP-1-EPH	4	1.15	8.45	9.6	8.61	88.3	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/18/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 11/15/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 11/16/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133466

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
P4870-03	TP-1-VOC	5	1.12	8.75	9.87	8.84	88.2	
P4870-04	MH-735	6	1.18	8.59	9.77	8.84	89.2	
P4870-05	MH-735-EPH	7	1.18	8.42	9.6	8.68	89.1	
P4870-06	MH-735-VOC	8	1.18	8.47	9.65	8.71	88.9	
P4870-07	MH-736	9	1.19	8.63	9.82	8.85	88.8	
P4870-08	MH-736-EPH	10	1.12	8.66	9.78	8.92	90.1	
P4870-09	MH-736-VOC	11	1.16	8.80	9.96	9.1	90.2	
P4870-10	TP-15	12	1.18	8.73	9.91	8.77	86.9	
P4870-11	TP-15-EPH	13	1.19	8.71	9.9	8.73	86.6	
P4870-12	TP-15-VOC	14	1.18	8.42	9.6	8.54	87.4	
P4886-05	SVOC-GPC-BLANK	25	1.00	1.00	2.00	2.00	100.0	
P4886-06	PEST-GPC-BLANK	26	1.00	1.00	2.00	2.00	100.0	
P4886-07	PEST-GPC-BLANK-SPIKE	27	1.00	1.00	2.00	2.00	100.0	
P4886-08	PCB-GPC-BLANK	28	1.00	1.00	2.00	2.00	100.0	
P4886-09	PCB-GPC-BLANK-SPIKE	29	1.00	1.00	2.00	2.00	100.0	
P4886-10	SVOC-GPC2-BLANK	30	1.00	1.00	2.00	2.00	100.0	
P4886-11	PEST-GPC2-BLANK	31	1.00	1.00	2.00	2.00	100.0	
P4886-12	PEST-GPC2-BLANK-SPIKE	32	1.00	1.00	2.00	2.00	100.0	
P4886-13	PCB-GPC2-BLANK	33	1.00	1.00	2.00	2.00	100.0	
P4886-14	PCB-GPC2-BLANK-SPIKE	34	1.00	1.00	2.00	2.00	100.0	
P4887-01	MH-739	35	1.15	8.83	9.98	9.2	91.2	
P4887-03	MH-739-EPH	36	1.17	8.60	9.77	8.94	90.3	
P4887-04	MH-739-VOC	37	1.12	8.68	9.8	8.62	86.4	
P4887-05	MH-760	38	1.15	8.40	9.55	8.56	88.2	
P4887-07	MH-760-EPH	39	1.15	8.83	9.98	9.14	90.5	
P4887-08	MH-760-VOC	40	1.14	8.81	9.95	9.4	93.8	
P4889-01	VNJ-228	55	1.17	8.55	9.72	8.96	91.1	
P4889-02	VNJ-228-VOC	56	1.15	8.72	9.87	8.87	88.5	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/18/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 11/15/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 11/16/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133466

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
P4889-03	#72-11978	57	1.18	8.63	9.81	9.14	92.2	
P4889-04	#72-11978-VOC	58	1.13	8.76	9.89	9.41	94.5	
P4889-05	#72-11930	59	1.14	8.84	9.98	9.4	93.4	
P4889-06	#72-11930-VOC	60	1.14	8.84	9.98	9.52	94.8	

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

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-111524

WorkList ID : 185446

Department : Wet-Chemistry

Date : 11-15-2024 07:57:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4851-01	OK-02-11142024	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	11/14/2024	Chemtech -SO
P4851-02	OK-02-11142024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	11/14/2024	Chemtech -SO
P4860-01	DUP-01	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-02	PH2-BPT-001	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-03	PH2-BPT-002	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-04	PH2-BPT-003	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-05	PH2-BPT-004	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-06	PH2-BPT-009	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-07	PH2-BPT-008	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-08	PH2-BPT-007	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-09	PH2-BPT-006	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-10	PH2-BPT-005	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4862-01	Y2404-0033-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4862-02	Y2404-0033-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4862-03	Y2404-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4862-04	Y2404-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4862-05	KMH4671-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4862-06	KMH4671-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4862-07	W029060-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4862-08	W029060-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4865-01	02-9042-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO

Date/Time

11-15-24 15:35

Raw Sample Received by:

80 wlf

Raw Sample Relinquished by:

F.C. Jones

Date/Time

11-15-24

Raw Sample Received by:

F.C. Jones

Raw Sample Relinquished by:

80 wlf

WORKLIST(Hardcopy Internal Chain)

1333466

WorkList Name : %1-111524

WorkList ID : 185446

Department : Wet-Chemistry

Date : 11-15-2024 07:57:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4865-02	02-9042-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4865-03	BC271303-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4865-04	BC271303-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4869-01	EO-02-11152024	Solid	Percent Solids	Cool 4 deg C	PSEG05	M11	11/15/2024	Chemtech -SO
P4869-02	EO-02-11152024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	M11	11/15/2024	Chemtech -SO
P4870-01	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-02	TP-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-03	TP-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-04	MH-735	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-05	MH-735-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-06	MH-735-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-07	MH-736	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-08	MH-736-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-09	MH-736-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-10	TP-15	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-11	TP-15-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-12	TP-15-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4886-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO

Date/Time 11-15-24 15:35
 Raw Sample Received by: SO WPC
 Raw Sample Relinquished by: SO WPC
 Date/Time 11-15-24 17:20
 Raw Sample Received by: Z. C. (my)
 Raw Sample Relinquished by: SO WPC

WORKLIST(Hardcopy Internal Chain)

133466

WorkList Name : %1-111524

WorkList ID : 185446

Department : Wet-Chemistry

Date : 11-15-2024 07:57:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4886-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4887-01	MH-739	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4887-03	MH-739-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4887-04	MH-739-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4887-05	MH-760	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4887-07	MH-760-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4887-08	MH-760-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4889-01	VNJ-228	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4889-02	VNJ-228-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4889-03	#72-11978	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4889-04	#72-11978-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4889-05	#72-11930	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4889-06	#72-11930-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO

Date/Time 11-15-24 15:35

Raw Sample Received by: 133466

Raw Sample Relinquished by: 133466

Date/Time 11-15-24

Raw Sample Received by: 133466

Raw Sample Relinquished by: 133466



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. **P4860**
QUOTE NO.
COC Number **2042292**

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Corrusion Env. Group
ADDRESS: 100 Crystal Run Rd Suite 101
CITY Middletown STATE: NY ZIP: 10941
ATTENTION:
PHONE: 845-695-0200 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: OCLE Ph 2 Post-Excavation Sample
PROJECT NO.: 209-4243256 LOCATION: Manchester NJ
PROJECT MANAGER: John Guisiano
e-mail: John.Guisiano@chemtech.com
PHONE: 845-695-0200 FAX:

CLIENT BILLING INFORMATION

BILL TO: Corrusion Env. Group
ADDRESS: 100 Crystal Run Rd Suite 101
CITY Middletown STATE: NY ZIP: 10941
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

TEL: 845-695-0200
8260B 8270E
8081B 8082A
4010D/7471B
9012B
NJEPH
7196A
9045D
8260D
Chemtech - SOP

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	QUP - 01	Soil	X		11-14-24	12:00	10	X	X	X	X	X	X	X	X	X	
2.	PH2 - BOT-001					8:20		X	X	X	X	X	X	X	X	X	
3.	PH2 - BOT-002					8:45		X	X	X	X	X	X	X	X	X	
4.	PH2 - BOT-003					9:05		X	X	X	X	X	X	X	X	X	
5.	PH2 - BOT-004					9:25		X	X	X	X	X	X	X	X	X	
6.	PH2 - BOT-009					9:45		X	X	X	X	X	X	X	X	X	
7.	PH2 - BOT-008					10:00		X	X	X	X	X	X	X	X	X	
8.	PH2 - BOT-007					10:15		X	X	X	X	X	X	X	X	X	
9.	PH2 - BOT-006					10:30		X	X	X	X	X	X	X	X	X	
10.	PH2 - BOT-005					10:45		X	X	X	X	X	X	X	X	X	

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

RELINQUISHED BY SAMPLER: 1. <u>John Guisiano</u>	DATE/TIME: <u>11-14-24 11:15</u>	RECEIVED BY: <u>[Signature]</u> <u>11-14-24</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.0°C</u>
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY:	Comments:
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>11-14-24</u>	RECEIVED BY: <u>[Signature]</u>	

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☒ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO



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

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4860 CORN02

Order Date : 11/14/2024 1:36:41 PM

Project Mgr :

Client Name : Tetra Tech

Project Name : Ocean County Landfill 2024

Report Type : NJ Reduced

Client Contact : John Giuliano

Receive DateTime : 11/14/2024 6:30:00 PM

EDD Type : Excel NJ

Invoice Name : Tetra Tech

Purchase Order :

Hard Copy Date :

Invoice Contact : John Giuliano

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4860-01	DUP-01	Solid	11/14/2024	12:00					
	BOT				VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-02	PH2-BPT-001	Solid	11/14/2024	08:20					
	BOT				VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-03	PH2-BPT-002	Solid	11/14/2024	08:45					
	BOT				VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-04	PH2-BPT-003	Solid	11/14/2024	09:05					
	BOT				VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-05	PH2-BPT-004	Solid	11/14/2024	09:25					
	BOT				VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-06	PH2-BPT-009	Solid	11/14/2024	09:45					
	BOT				VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-07	PH2-BPT-008	Solid	11/14/2024	10:00					
	BOT				VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-08	PH2-BPT-007	Solid	11/14/2024	10:15					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4860	CORN02	Order Date : 11/14/2024 1:36:41 PM	Project Mgr :
Client Name : Tetra Tech		Project Name : Ocean County Landfill 2024	Report Type : NJ Reduced
Client Contact : John Giuliano		Receive DateTime : 11/14/2024 6:30:00 PM	EDD Type : Excel NJ
Invoice Name : Tetra Tech		Purchase Order :	Hard Copy Date :
Invoice Contact : John Giuliano			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4860-09	BOT PH2-BPT-006	Solid	11/14/2024	10:30	VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-10	BOT PH2-BPT-005	Solid	11/14/2024	10:45	VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
					VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	

Relinquished By : 

Date / Time : 11/15/24 11:30

Received By : 

Date / Time : 11.15.24 11:30

Storage Area : VOA Refridgerator Room