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

Order ID : P4663

Project ID : Rt. 10 Whippany

Client : Union Paving & Construction Company

Lab Sample Number	Client Sample Number
P4663-01	TENNANT-PAD-2-3-STOCKPILE
P4663-02	TENNANT-PAD-2-3-STOCKPILE
P4663-03	RES-BUILDING-PAD-NO-11
P4663-04	RES-BUILDING-PAD-NO-11
P4663-05	RES-BUILDING-PAD-NO-3
P4663-06	RES-BUILDING-PAD-NO-3
P4663-07	RES-BUILDING-PAD-NO-2
P4663-08	RES-BUILDING-PAD-NO-2

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: 11/9/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P4663**

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

QA Review Signature: **PATEL VAISHALI** **Date:** **11/09/2024**

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LAB CHRONICLE

OrderID:	P4663	**OrderDate:**	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	**Project:**	Rt. 10 Whippany
Contact:	Gregory Butler	**Location:**	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-01	**TENNANT-PAD-2-3-STOCKPILE**	**SOIL**			**10/31/24**			**10/31/24**
			VOCMS Group1	8260D			11/01/24	
P4663-03	**RES-BUILDING-PAD-NO-11**	**SOIL**			**10/31/24**			**10/31/24**
			VOCMS Group1	8260D			11/01/24	
P4663-05	**RES-BUILDING-PAD-NO-3**	**SOIL**			**10/31/24**			**10/31/24**
			VOCMS Group1	8260D			11/01/24	
P4663-07	**RES-BUILDING-PAD-NO-2**	**SOIL**			**10/31/24**			**10/31/24**
			VOCMS Group1	8260D			11/01/24	

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Hit Summary Sheet
SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**RES-BUILDING-PAD-NO-3**							
P4663-05	RES-BUILDING-P/	SOIL	Methylene Chloride	4.90	J	2.60	7.70	ug/Kg
			Total Voc :	4.90				
			Total Concentration:	4.90				

QC SUMMARY

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

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4663-01	TENNANT-PAD-2-3-STOCKPILE	1,2-Dichloroethane-d4	50	61.2	122	70 (50)	130 (163)
		Dibromofluoromethane	50	53.8	108	70 (54)	130 (147)
		Toluene-d8	50	49.2	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.7	95	70 (29)	130 (146)
P4663-03	RES-BUILDING-PAD-NO-11	1,2-Dichloroethane-d4	50	56.9	114	70 (50)	130 (163)
		Dibromofluoromethane	50	51.8	104	70 (54)	130 (147)
		Toluene-d8	50	48.8	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.0	88	70 (29)	130 (146)
P4663-05	RES-BUILDING-PAD-NO-3	1,2-Dichloroethane-d4	50	56.9	114	70 (50)	130 (163)
		Dibromofluoromethane	50	51.4	103	70 (54)	130 (147)
		Toluene-d8	50	49.7	99	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.3	89	70 (29)	130 (146)
P4663-07	RES-BUILDING-PAD-NO-2	1,2-Dichloroethane-d4	50	60.0	120	70 (50)	130 (163)
		Dibromofluoromethane	50	53.1	106	70 (54)	130 (147)
		Toluene-d8	50	49.9	100	70 (58)	130 (134)
		4-Bromofluorobenzene	50	48.7	97	70 (29)	130 (146)
VY1101SBL01	VY1101SBL01	1,2-Dichloroethane-d4	50	57.4	115	70 (50)	130 (163)
		Dibromofluoromethane	50	51.6	103	70 (54)	130 (147)
		Toluene-d8	50	48.9	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.3	89	70 (29)	130 (146)
VY1101SBS01	VY1101SBS01	1,2-Dichloroethane-d4	50	59.4	119	70 (50)	130 (163)
		Dibromofluoromethane	50	56.7	113	70 (54)	130 (147)
		Toluene-d8	50	57.8	116	70 (58)	130 (134)
		4-Bromofluorobenzene	50	56.0	112	70 (29)	130 (146)
VY1101SBSD01	VY1101SBSD01	1,2-Dichloroethane-d4	50	52.2	104	70 (50)	130 (163)
		Dibromofluoromethane	50	51.6	103	70 (54)	130 (147)
		Toluene-d8	50	51.5	103	70 (58)	130 (134)
		4-Bromofluorobenzene	50	51.2	102	70 (29)	130 (146)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8260D **Datafile :** VY020111.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1101SBS01	Dichlorodifluoromethane	20	20.9	ug/Kg	104			40 (64)	160 (136)	
	Chloromethane	20	22.1	ug/Kg	111			40 (70)	160 (130)	
	Vinyl chloride	20	21.4	ug/Kg	107			70 (72)	130 (129)	
	Bromomethane	20	21.3	ug/Kg	106			40 (58)	160 (141)	
	Chloroethane	20	22.2	ug/Kg	111			40 (69)	160 (130)	
	Trichlorofluoromethane	20	22.2	ug/Kg	111			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.0	ug/Kg	105			70 (81)	130 (123)	
	1,1-Dichloroethene	20	21.3	ug/Kg	106			70 (79)	130 (121)	
	Acetone	100	100	ug/Kg	100			40 (60)	160 (131)	
	Carbon disulfide	20	21.0	ug/Kg	105			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	22.1	ug/Kg	111			70 (77)	130 (129)	
	Methyl Acetate	20	22.3	ug/Kg	112			70 (69)	130 (149)	
	Methylene Chloride	20	20.8	ug/Kg	104			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	21.2	ug/Kg	106			70 (80)	130 (123)	
	1,1-Dichloroethane	20	22.3	ug/Kg	112			70 (82)	130 (123)	
	Cyclohexane	20	20.5	ug/Kg	103			70 (76)	130 (122)	
	2-Butanone	100	110	ug/Kg	110			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.3	ug/Kg	102			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	21.9	ug/Kg	110			70 (82)	130 (123)	
	Bromochloromethane	20	21.5	ug/Kg	108			70 (80)	130 (127)	
	Chloroform	20	21.9	ug/Kg	110			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	21.5	ug/Kg	108			70 (80)	130 (126)	
	Methylcyclohexane	20	19.8	ug/Kg	99			70 (77)	130 (123)	
	Benzene	20	21.0	ug/Kg	105			70 (84)	130 (121)	
	1,2-Dichloroethane	20	21.2	ug/Kg	106			70 (81)	130 (126)	
	Trichloroethene	20	20.7	ug/Kg	104			70 (83)	130 (122)	
	1,2-Dichloropropane	20	21.1	ug/Kg	106			70 (83)	130 (122)	
	Bromodichloromethane	20	21.7	ug/Kg	109			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			40 (70)	160 (135)	
	Toluene	20	21.1	ug/Kg	106			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.6	ug/Kg	103			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	21.3	ug/Kg	106			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.9	ug/Kg	104			70 (82)	130 (125)	
	2-Hexanone	100	110	ug/Kg	110			40 (66)	160 (138)	
	Dibromochloromethane	20	21.1	ug/Kg	106			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.7	ug/Kg	104			70 (80)	130 (125)	
	Tetrachloroethene	20	20.5	ug/Kg	103			70 (83)	130 (125)	
	Chlorobenzene	20	20.9	ug/Kg	104			70 (84)	130 (122)	
	Ethyl Benzene	20	20.4	ug/Kg	102			70 (82)	130 (124)	
	m/p-Xylenes	40	41.6	ug/Kg	104			70 (83)	130 (124)	
	o-Xylene	20	20.1	ug/Kg	101			70 (83)	130 (123)	
	Styrene	20	20.8	ug/Kg	104			70 (82)	130 (124)	
	Bromoform	20	20.5	ug/Kg	103			70 (75)	130 (127)	
	Isopropylbenzene	20	20.2	ug/Kg	101			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	20.2	ug/Kg	101			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.6	ug/Kg	103			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.7	ug/Kg	104			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	20.8	ug/Kg	104			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8260D **Datafile :** VY020111.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1101SBS01	1,2-Dibromo-3-Chloropropane	20	18.9	ug/Kg	95			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.5	ug/Kg	98			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.8	ug/Kg	94			70 (70)	130 (137)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8260D **Datafile :** VY020112.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1101SBSD01	Dichlorodifluoromethane	20	20.5	ug/Kg	103	1		40 (64)	160 (136)	30 (20)
	Chloromethane	20	22.1	ug/Kg	111	0		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	21.3	ug/Kg	106	1		70 (72)	130 (129)	30 (20)
	Bromomethane	20	20.5	ug/Kg	103	3		40 (58)	160 (141)	30 (20)
	Chloroethane	20	21.2	ug/Kg	106	5		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	21.6	ug/Kg	108	3		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.5	ug/Kg	108	3		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	20.8	ug/Kg	104	2		70 (79)	130 (121)	30 (20)
	Acetone	100	110	ug/Kg	110	10		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	20.8	ug/Kg	104	1		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	21.0	ug/Kg	105	6		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	21.9	ug/Kg	110	2		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	19.7	ug/Kg	99	5		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	20.9	ug/Kg	104	2		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	21.1	ug/Kg	106	6		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	20.4	ug/Kg	102	1		70 (76)	130 (122)	30 (20)
	2-Butanone	100	110	ug/Kg	110	0		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.7	ug/Kg	104	2		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.7	ug/Kg	104	6		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	20.0	ug/Kg	100	8		70 (80)	130 (127)	30 (20)
	Chloroform	20	21.6	ug/Kg	108	2		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	20.7	ug/Kg	104	4		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.7	ug/Kg	99	0		70 (77)	130 (123)	30 (20)
	Benzene	20	21.0	ug/Kg	105	0		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	21.0	ug/Kg	105	1		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.3	ug/Kg	102	2		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.9	ug/Kg	104	2		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	21.1	ug/Kg	106	3		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	0		40 (70)	160 (135)	30 (20)
	Toluene	20	20.9	ug/Kg	104	2		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	20.0	ug/Kg	100	3		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103	3		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	21.6	ug/Kg	108	4		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	110	ug/Kg	110	0		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.9	ug/Kg	104	2		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.2	ug/Kg	101	3		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	20.5	ug/Kg	103	0		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	20.6	ug/Kg	103	1		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	20.8	ug/Kg	104	2		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	41.4	ug/Kg	104	0		70 (83)	130 (124)	30 (20)
	o-Xylene	20	20.6	ug/Kg	103	2		70 (83)	130 (123)	30 (20)
	Styrene	20	21.2	ug/Kg	106	2		70 (82)	130 (124)	30 (20)
	Bromoform	20	20.8	ug/Kg	104	1		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	20.9	ug/Kg	104	3		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	20.5	ug/Kg	103	2		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	20.6	ug/Kg	103	0		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	21.0	ug/Kg	105	1		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	21.3	ug/Kg	106	2		70 (83)	130 (124)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8260D **Datafile :** VY020112.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1101SBSD01	1,2-Dibromo-3-Chloropropane	20	20.9	ug/Kg	104	9		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	20.0	ug/Kg	100	2		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	20.2	ug/Kg	101	7		70 (70)	130 (137)	30 (20)

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1101SBL01

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab File ID: VY020110.D Lab Sample ID: VY1101SBL01

Date Analyzed: 11/01/2024 Time Analyzed: 09:42

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
VY1101SBS01	VY1101SBS01	VY020111.D	11/01/2024
VY1101SBSD01	VY1101SBSD01	VY020112.D	11/01/2024
RES-BUILDING-PAD-NO-2	P4663-07	VY020124.D	11/01/2024
TENNANT-PAD-2-3-STOCKPILE	P4663-01	VY020128.D	11/01/2024
RES-BUILDING-PAD-NO-11	P4663-03	VY020129.D	11/01/2024
RES-BUILDING-PAD-NO-3	P4663-05	VY020130.D	11/01/2024

COMMENTS:

Raw Data: **VY020074.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab File ID: VY020074.D BFB Injection Date: 10/30/2024

Instrument ID: MSVOA_Y BFB Injection Time: 12:07

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	24
75	30.0 - 60.0% of mass 95	57.2
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	1.1 (1.4) 1
174	50.0 - 100.0% of mass 95	74.5
175	5.0 - 9.0% of mass 174	5.8 (7.8) 1
176	95.0 - 101.0% of mass 174	70.8 (95.1) 1
177	5.0 - 9.0% of mass 176	4.9 (6.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY020075.D	10/30/2024	12:39
VSTDICC010	VSTDICC010	VY020076.D	10/30/2024	13:02
VSTDICC020	VSTDICC020	VY020077.D	10/30/2024	13:24
VSTDICCC050	VSTDICCC050	VY020078.D	10/30/2024	14:06
VSTDICC100	VSTDICC100	VY020079.D	10/30/2024	14:29
VSTDICC150	VSTDICC150	VY020080.D	10/30/2024	14:52

Raw Data: **VY020108.D**

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab File ID: VY020108.D BFB Injection Date: 11/01/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:26

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	24.7
75	30.0 - 60.0% of mass 95	59
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.9 (1.3) 1
174	50.0 - 100.0% of mass 95	72.7
175	5.0 - 9.0% of mass 174	5.6 (7.8) 1
176	95.0 - 101.0% of mass 174	69.1 (95) 1
177	5.0 - 9.0% of mass 176	4.6 (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	VY020109.D	11/01/2024	09:02
VY1101SBL01	VY1101SBL01	VY020110.D	11/01/2024	09:42
VY1101SBS01	VY1101SBS01	VY020111.D	11/01/2024	10:33
VY1101SBSD01	VY1101SBSD01	VY020112.D	11/01/2024	11:12
RES-BUILDING-PAD-NO-2	P4663-07	VY020124.D	11/01/2024	17:07
TENNANT-PAD-2-3-STOCKPILE	P4663-01	VY020128.D	11/01/2024	18:41
RES-BUILDING-PAD-NO-11	P4663-03	VY020129.D	11/01/2024	19:04
RES-BUILDING-PAD-NO-3	P4663-05	VY020130.D	11/01/2024	19:27

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab File ID: VY020109.D Date Analyzed: 11/01/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:02

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	249316	7.71	428486	8.62	369253	11.42
UPPER LIMIT	498632	8.213	856972	9.115	738506	11.92
LOWER LIMIT	124658	7.213	214243	8.115	184627	10.92
EPA SAMPLE NO.						
TENNANT-PAD-2-3-STOCKPILE	159567	7.71	338625	8.62	324781	11.41
RES-BUILDING-PAD-NO-11	164371	7.71	344945	8.61	309515	11.41
RES-BUILDING-PAD-NO-3	159663	7.71	335103	8.62	302177	11.41
RES-BUILDING-PAD-NO-2	168827	7.71	353605	8.62	335031	11.41
VY1101SBL01	193272	7.71	403931	8.62	365454	11.41
VY1101SBS01	224649	7.71	413315	8.62	362345	11.41
VY1101SBSD01	251864	7.71	454799	8.62	392733	11.41

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab File ID: VY020109.D Date Analyzed: 11/01/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:02

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

	IS4 AREA #	RT #				
12 HOUR STD	173771	13.346				
UPPER LIMIT	347542	13.846				
LOWER LIMIT	86885.5	12.846				
EPA SAMPLE NO.						
TENNANT-PAD-2-3-STOCKPILE	118518	13.35				
RES-BUILDING-PAD-NO-11	105144	13.35				
RES-BUILDING-PAD-NO-3	103950	13.35				
RES-BUILDING-PAD-NO-2	125105	13.35				
VY1101SBL01	125829	13.35				
VY1101SBS01	169895	13.35				
VY1101SBSD01	182188	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

Raw Data: **VY020128.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91
Sample Wt/Vol:	6.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020128.D	1		11/01/24 18:41	VY110124

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	0.68	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	0.64	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

Raw Data: **VY020128.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91
Sample Wt/Vol:	6.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020128.D	1		11/01/24 18:41	VY110124

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	0.73	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	61.2		70 (50) - 130 (163)	122%	SPK: 50
1868-53-7	Dibromofluoromethane	53.8		70 (54) - 130 (147)	108%	SPK: 50
2037-26-5	Toluene-d8	49.2		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		70 (29) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	7.707			
540-36-3	1,4-Difluorobenzene	339000	8.616			
3114-55-4	Chlorobenzene-d5	325000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	119000	13.347			

Raw Data: **VY020128.D**

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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91
Sample Wt/Vol:	6.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020128.D	1		11/01/24 18:41	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Sample Results: **VY020128.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020128.D
Acq On : 01 Nov 2024 18:41
Operator : SY/MD
Sample : P4663-01
Misc : 6.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Quant Time: Nov 04 00:51:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	159567	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	338625	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	324781	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	118518	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	121934	61.227	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 122.460%			
35) Dibromofluoromethane	7.634	113	115825	53.798	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.600%			
50) Toluene-d8	10.103	98	421310	49.162	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.320%			
62) 4-Bromofluorobenzene	12.402	95	132684	47.667	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 95.340%			

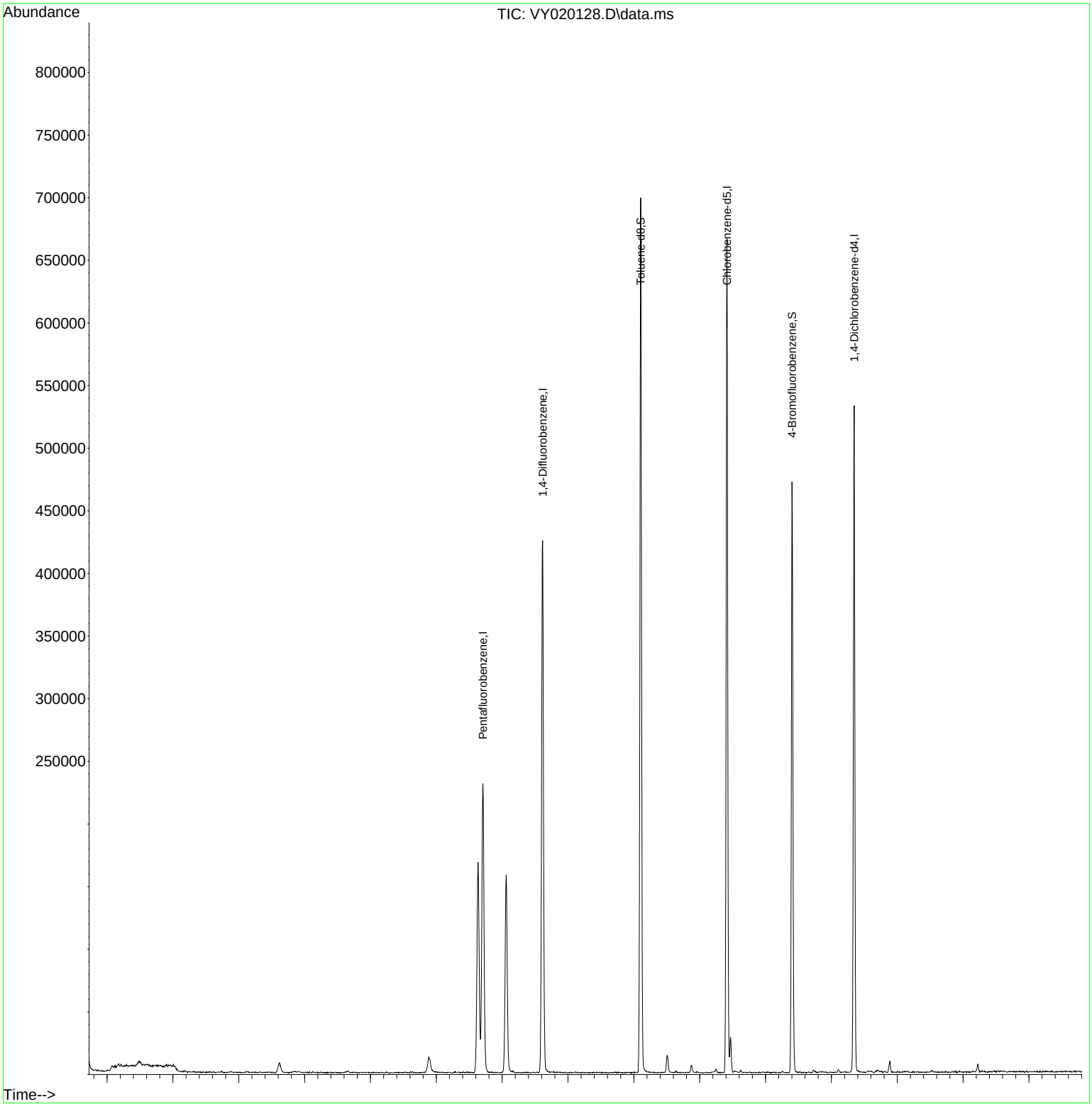
Target Compounds Qvalue

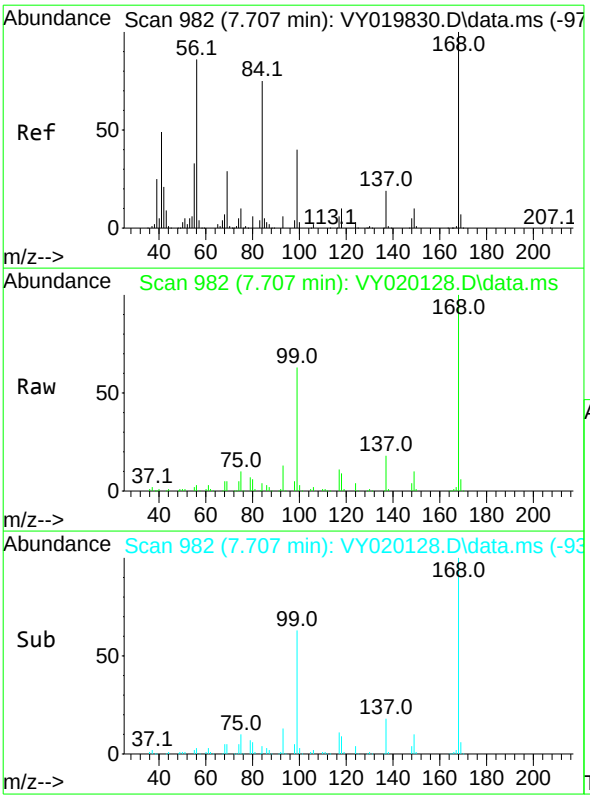
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020128.D
Acq On : 01 Nov 2024 18:41
Operator : SY/MD
Sample : P4663-01
Misc : 6.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Quant Time: Nov 04 00:51:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



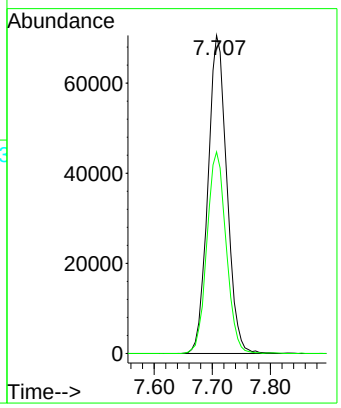


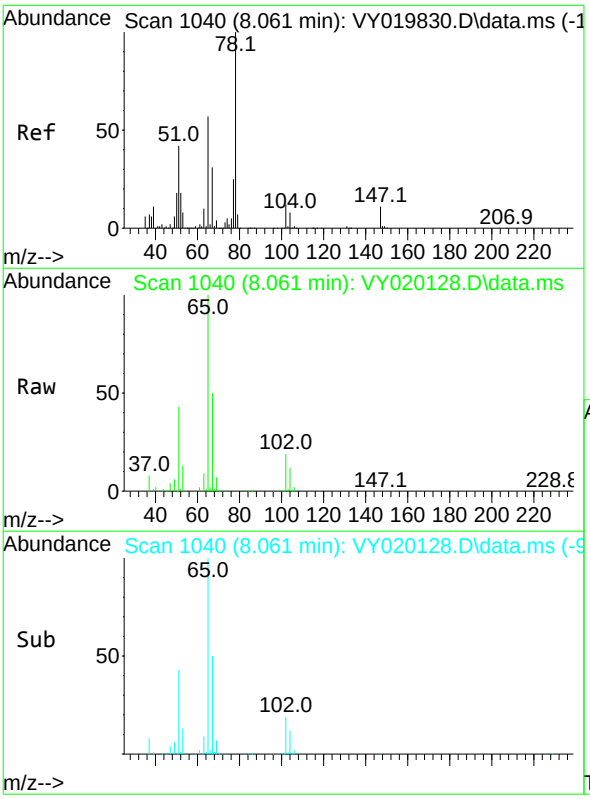
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Tgt Ion:168 Resp: 159567

Ion	Ratio	Lower	Upper
168	100		
99	63.4	39.1	58.7#

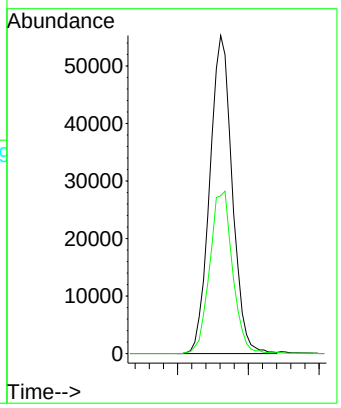


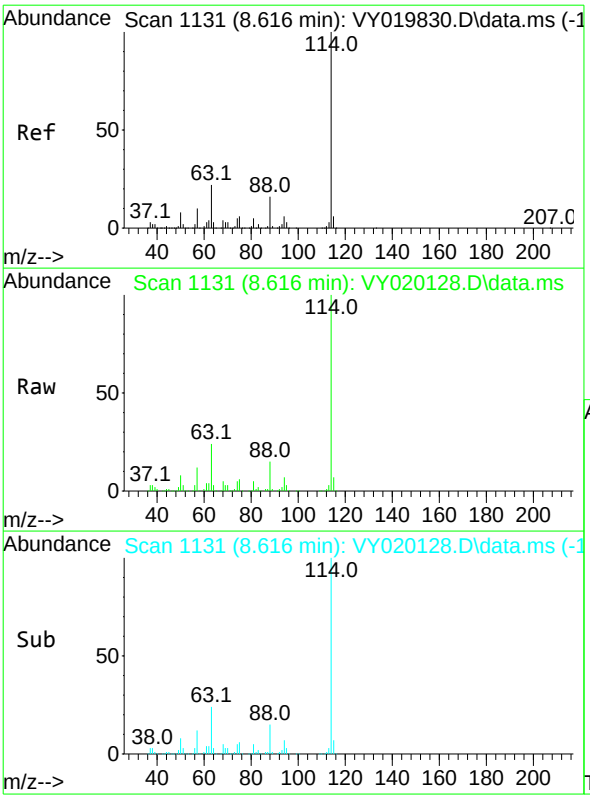


#33
1,2-Dichloroethane-d4
Concen: 61.227 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Tgt Ion: 65 Resp: 121934

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	109.6



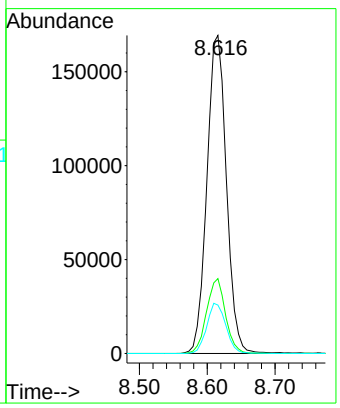


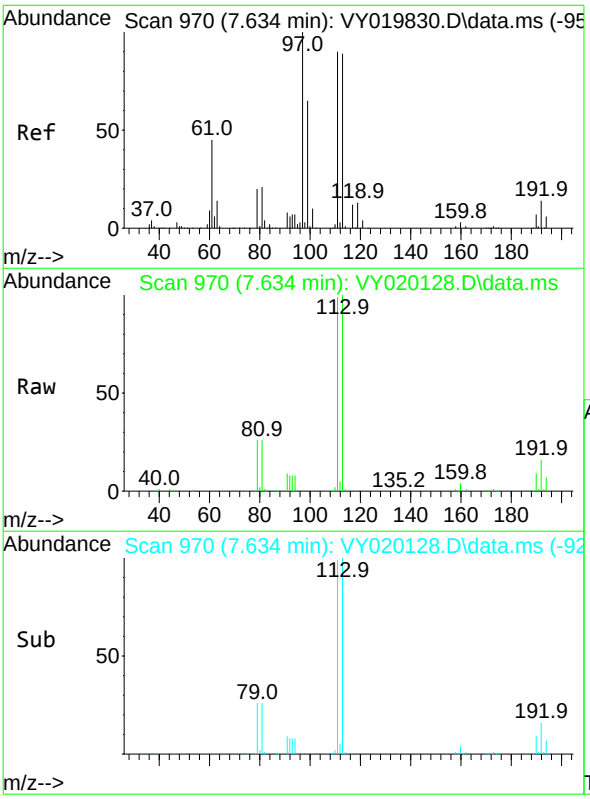
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Tgt Ion:114 Resp: 338625

Ion	Ratio	Lower	Upper
114	100		
63	23.5	0.0	35.0
88	15.2	0.0	27.2

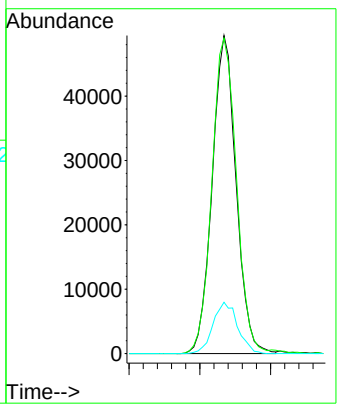


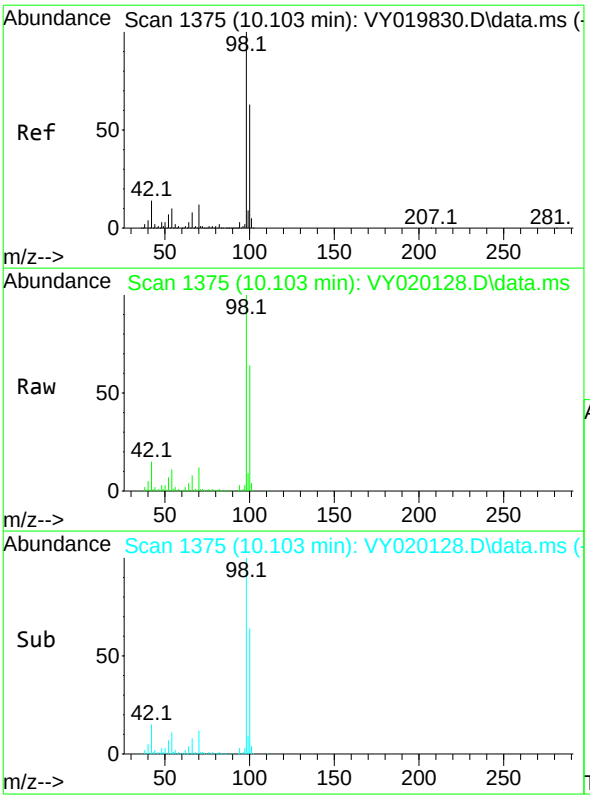


#35
Dibromofluoromethane
Concen: 53.798 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Tgt Ion:113 Resp: 115825

Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.2	123.4
192	16.6	15.9	23.9



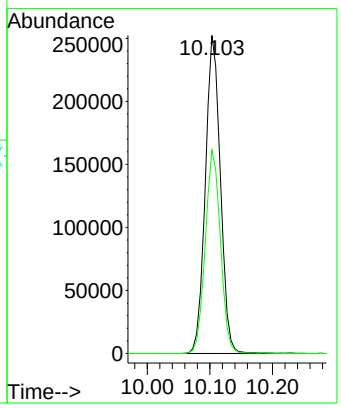


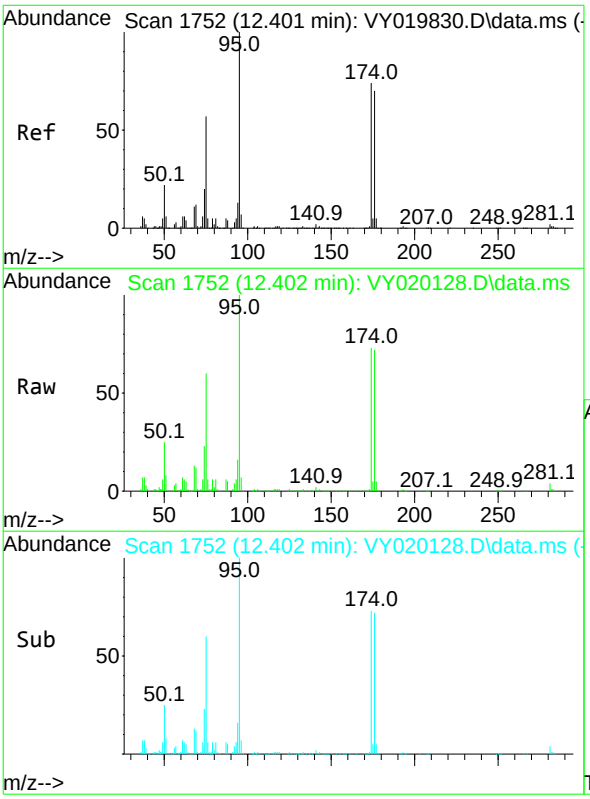
#50
Toluene-d8
Concen: 49.162 ug/l
RT: 10.103 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Tgt Ion: 98 Resp: 421310

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.0	78.0

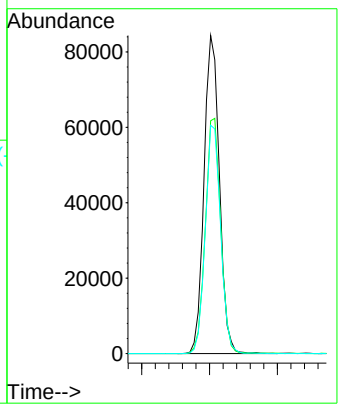


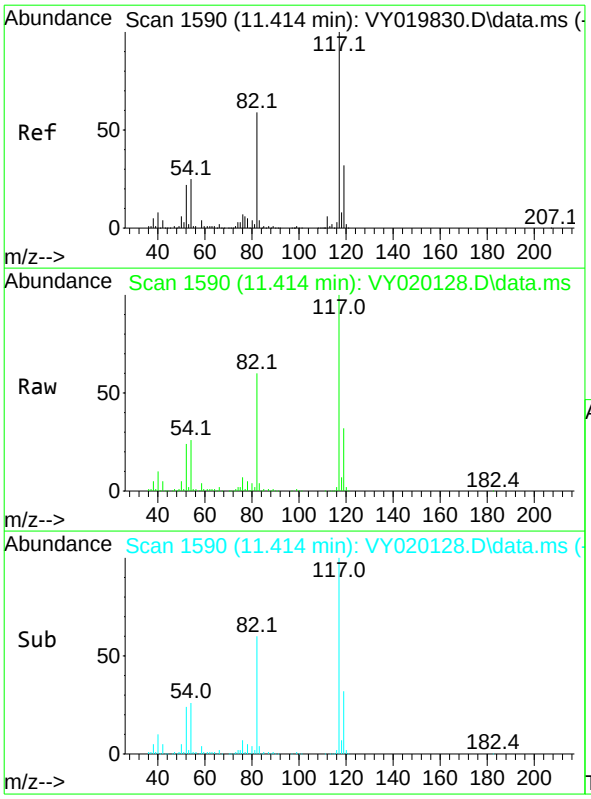


#62
4-Bromofluorobenzene
Concen: 47.667 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Tgt Ion: 95 Resp: 132684

Ion	Ratio	Lower	Upper
95	100		
174	73.8	0.0	175.6
176	71.5	0.0	171.4



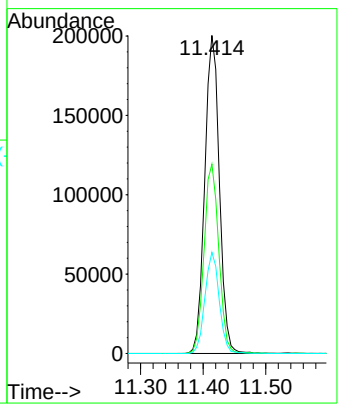


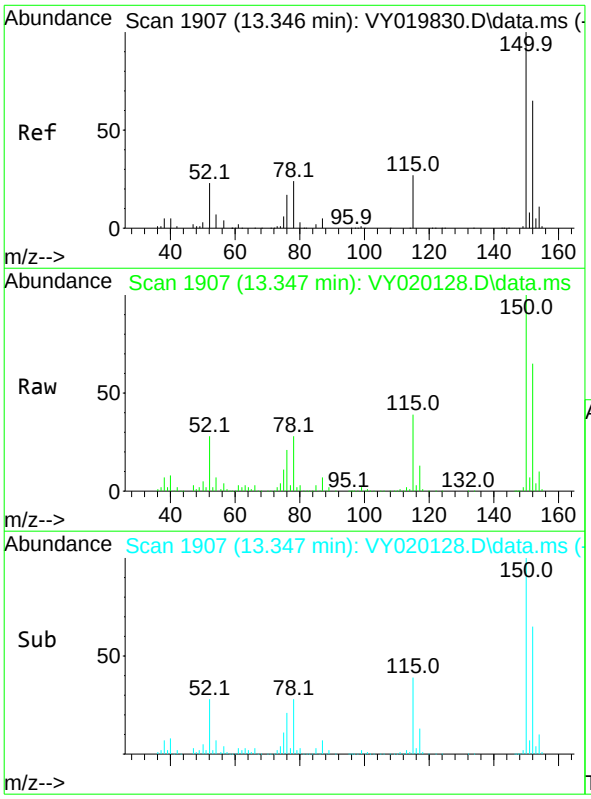
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Tgt Ion:117 Resp: 324781

Ion	Ratio	Lower	Upper
117	100		
82	59.5	42.4	63.6
119	31.8	25.9	38.9

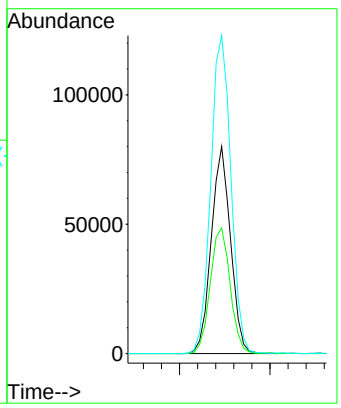




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Tgt Ion:152 Resp: 118518

Ion	Ratio	Lower	Upper
152	100		
115	62.7	28.2	84.7
150	160.6	0.0	345.6



Raw Data: **VY020129.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.9
Sample Wt/Vol:	6.25 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020129.D	1		11/01/24 19:04	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	4.40	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.40	ug/Kg
75-01-4	Vinyl Chloride	0.67	U	0.67	4.40	ug/Kg
74-83-9	Bromomethane	0.90	U	0.90	4.40	ug/Kg
75-00-3	Chloroethane	0.88	U	0.88	4.40	ug/Kg
75-69-4	Trichlorofluoromethane	0.79	U	0.79	4.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.93	U	0.93	4.40	ug/Kg
75-35-4	1,1-Dichloroethene	0.68	U	0.68	4.40	ug/Kg
67-64-1	Acetone	5.40	U	5.40	21.8	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.58	U	0.58	4.40	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	4.40	ug/Kg
75-09-2	Methylene Chloride	3.00	U	3.00	8.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.73	U	0.73	4.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.55	U	0.55	4.40	ug/Kg
110-82-7	Cyclohexane	0.60	U	0.60	4.40	ug/Kg
78-93-3	2-Butanone	4.90	U	4.90	21.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.76	U	0.76	4.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.53	U	0.53	4.40	ug/Kg
74-97-5	Bromochloromethane	2.10	U	2.10	4.40	ug/Kg
67-66-3	Chloroform	0.58	U	0.58	4.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.68	U	0.68	4.40	ug/Kg
108-87-2	Methylcyclohexane	0.76	U	0.76	4.40	ug/Kg
71-43-2	Benzene	0.63	U	0.63	4.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.53	U	0.53	4.40	ug/Kg
79-01-6	Trichloroethene	0.65	U	0.65	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.57	U	0.57	4.40	ug/Kg
75-27-4	Bromodichloromethane	0.49	U	0.49	4.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	21.8	ug/Kg
108-88-3	Toluene	0.58	U	0.58	4.40	ug/Kg

Raw Data: **VY020129.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.9
Sample Wt/Vol:	6.25 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020129.D	1		11/01/24 19:04	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.52	U	0.52	4.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	4.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.73	U	0.73	4.40	ug/Kg
591-78-6	2-Hexanone	4.20	U	4.20	21.8	ug/Kg
124-48-1	Dibromochloromethane	0.57	U	0.57	4.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.69	U	0.69	4.40	ug/Kg
127-18-4	Tetrachloroethene	0.77	U	0.77	4.40	ug/Kg
108-90-7	Chlorobenzene	0.64	U	0.64	4.40	ug/Kg
100-41-4	Ethyl Benzene	0.54	U	0.54	4.40	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	8.70	ug/Kg
95-47-6	o-Xylene	0.61	U	0.61	4.40	ug/Kg
100-42-5	Styrene	0.52	U	0.52	4.40	ug/Kg
75-25-2	Bromoform	0.71	U	0.71	4.40	ug/Kg
98-82-8	Isopropylbenzene	0.58	U	0.58	4.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.96	U	0.96	4.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.64	U	0.64	4.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.70	U	0.70	4.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.51	U	0.51	4.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	4.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.69	U	0.69	4.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.68	U	0.68	4.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.9		70 (50) - 130 (163)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (54) - 130 (147)	104%	SPK: 50
2037-26-5	Toluene-d8	48.8		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.0		70 (29) - 130 (146)	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	7.713			
540-36-3	1,4-Difluorobenzene	345000	8.609			
3114-55-4	Chlorobenzene-d5	310000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	105000	13.346			

Raw Data: **VY020129.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.9
Sample Wt/Vol:	6.25 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020129.D	1		11/01/24 19:04	VY110124

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\VY110124\
Data File : VY020129.D
Acq On : 01 Nov 2024 19:04
Operator : SY/MD
Sample : P4663-03
Misc : 6.25g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-11

Quant Time: Nov 04 00:52:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	164371	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.609	114	344945	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	309515	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	105144	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	116799	56.935	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.860%			
35) Dibromofluoromethane	7.634	113	113604	51.800	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.600%			
50) Toluene-d8	10.103	98	426232	48.825	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.660%			
62) 4-Bromofluorobenzene	12.401	95	124656	43.962	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 87.920%			
Target Compounds						Qvalue

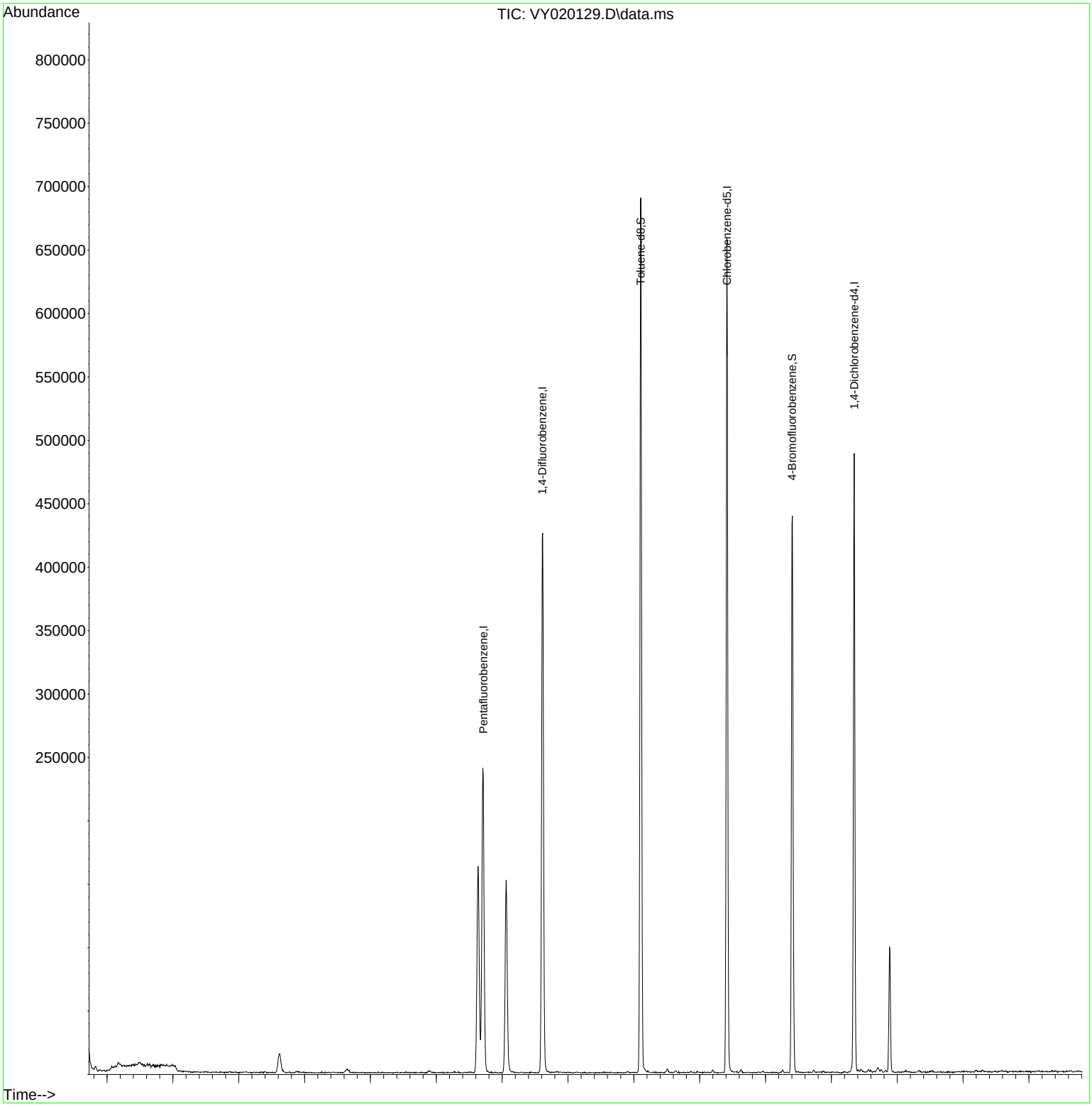
(#) = qualifier out of range (m) = manual integration (+) = signals summed

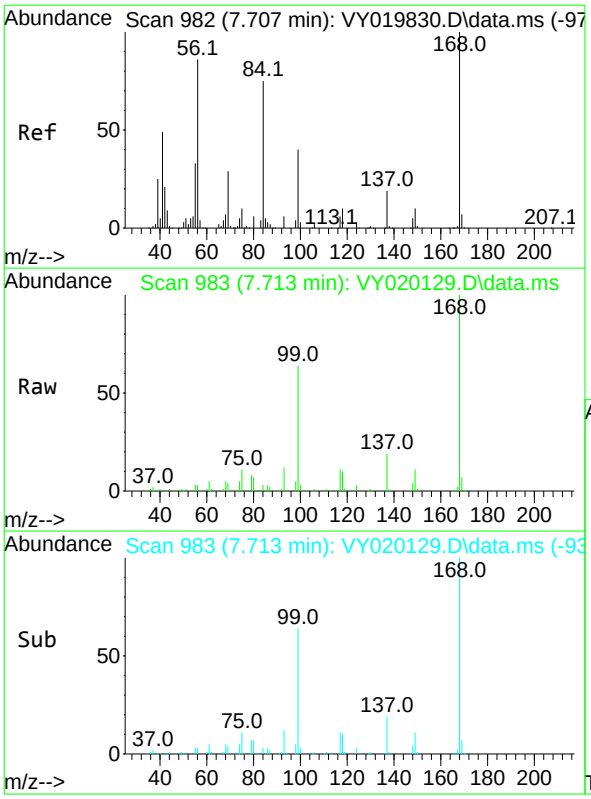
Sample Results: **VY020129.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020129.D
Acq On : 01 Nov 2024 19:04
Operator : SY/MD
Sample : P4663-03
Misc : 6.25g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-11

Quant Time: Nov 04 00:52:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



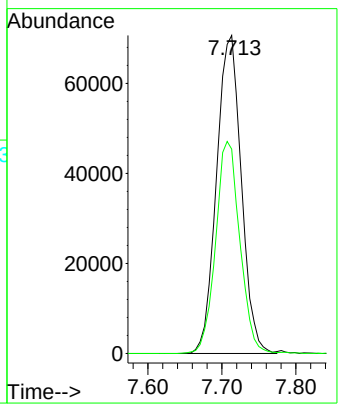


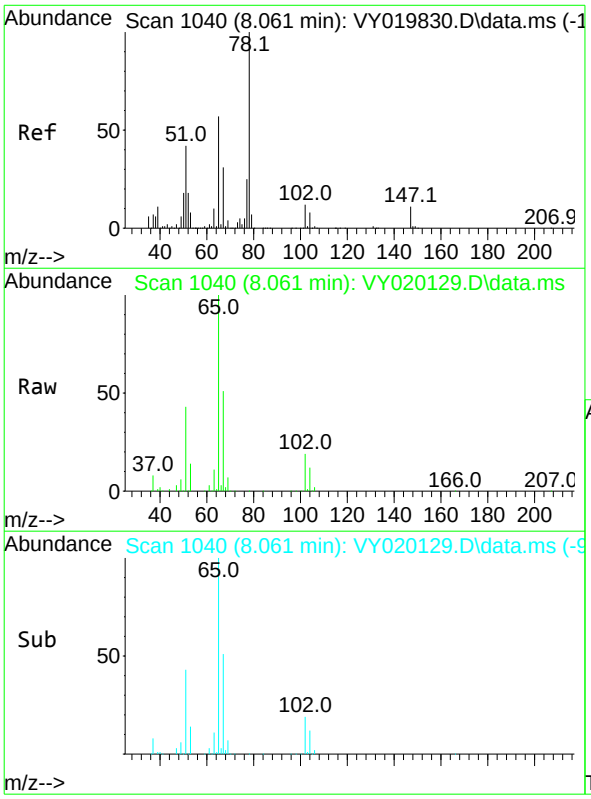
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:168 Resp: 164371

Ion	Ratio	Lower	Upper
168	100		
99	64.3	39.1	58.7#

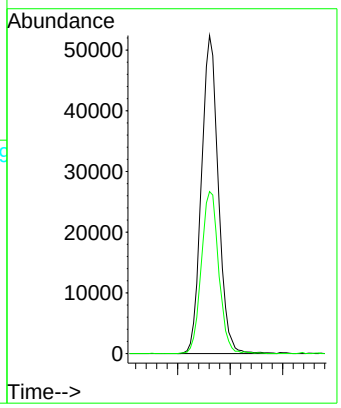


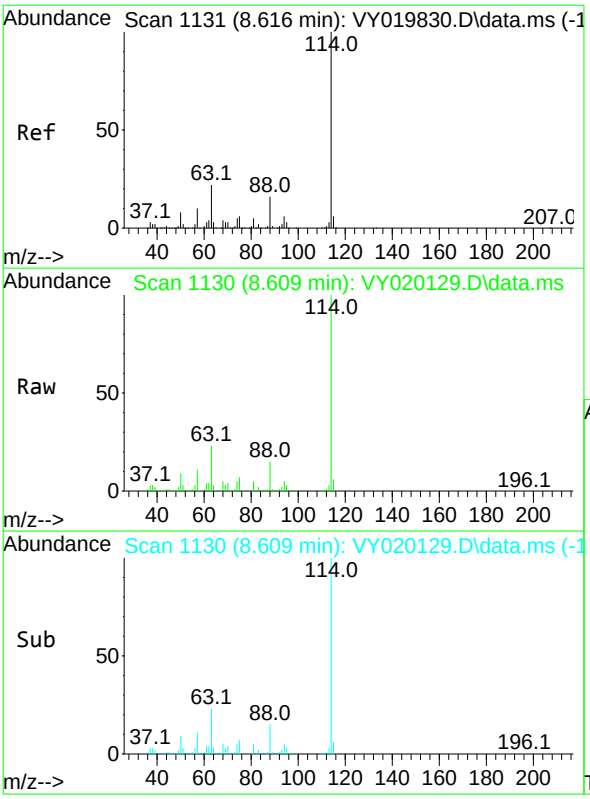


#33
1,2-Dichloroethane-d4
Concen: 56.935 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Tgt Ion: 65 Resp: 116799

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	109.6



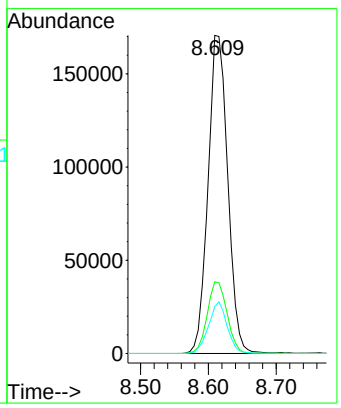


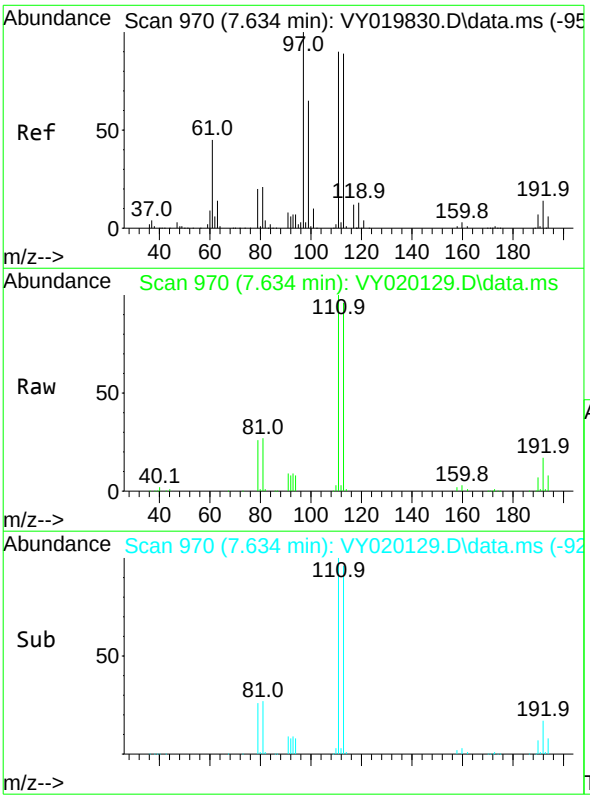
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:114 Resp: 344945

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	35.0
88	14.8	0.0	27.2

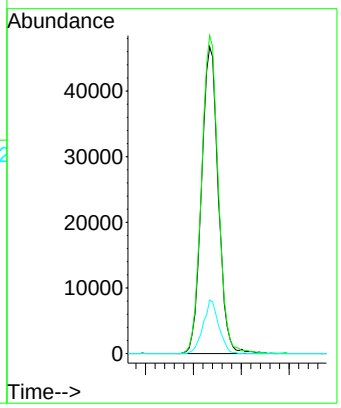


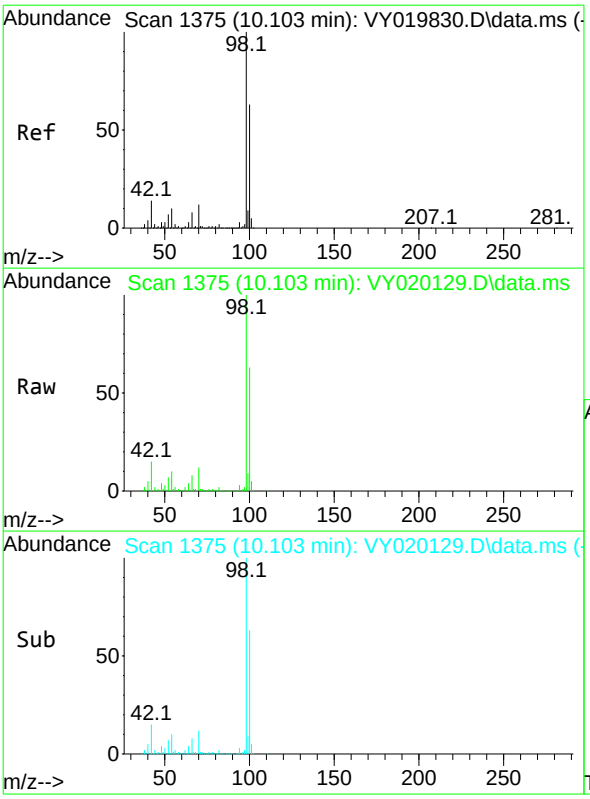


#35
Dibromofluoromethane
Concen: 51.800 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Tgt Ion:113 Resp: 113604

Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.2	123.4
192	16.3	15.9	23.9



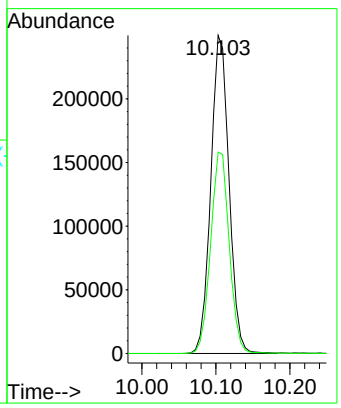


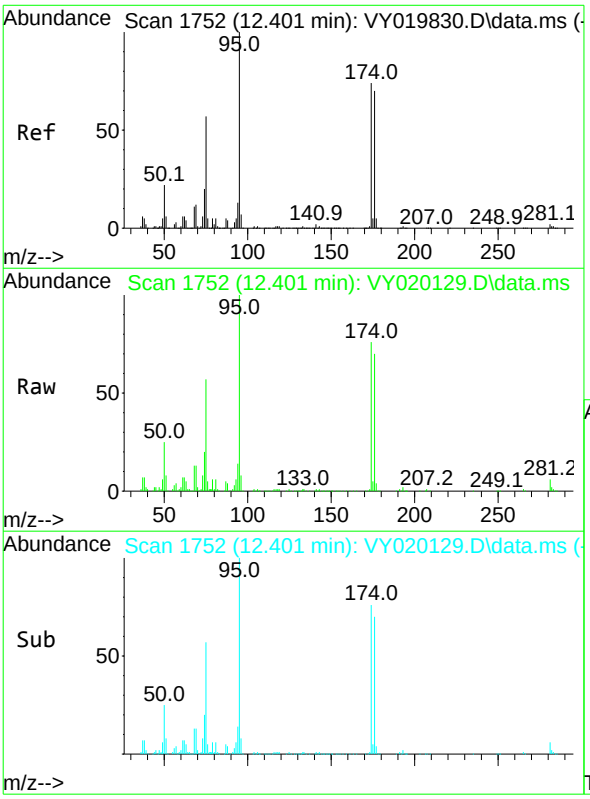
#50
Toluene-d8
Concen: 48.825 ug/l
RT: 10.103 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion: 98 Resp: 426232

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.0	78.0

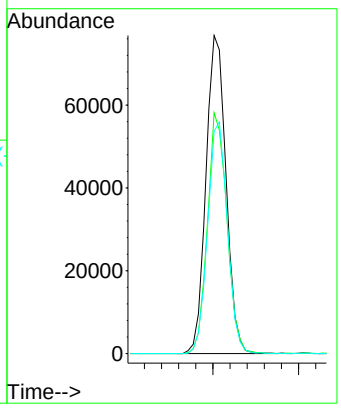


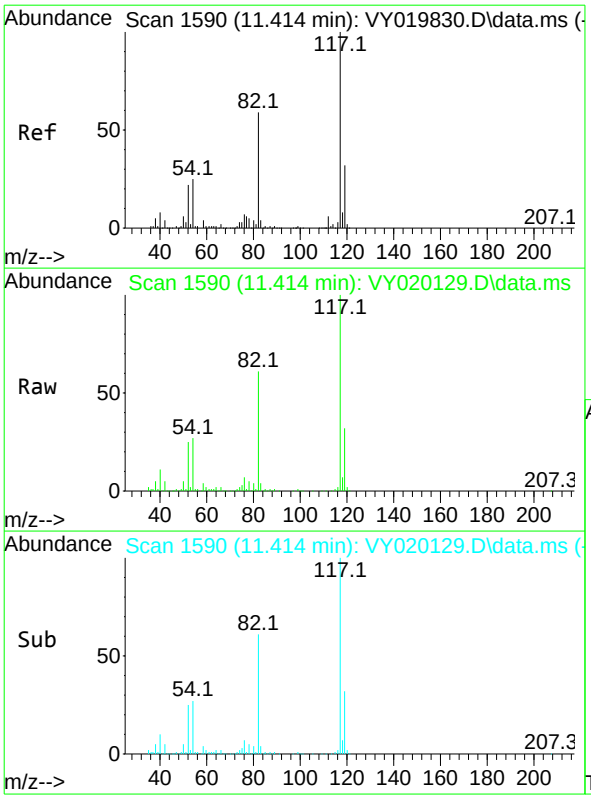


#62
4-Bromofluorobenzene
Concen: 43.962 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Tgt Ion: 95 Resp: 124656

Ion	Ratio	Lower	Upper
95	100		
174	73.5	0.0	175.6
176	71.8	0.0	171.4



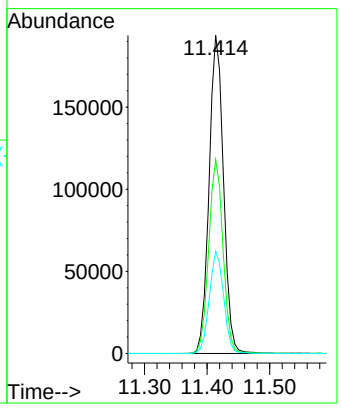


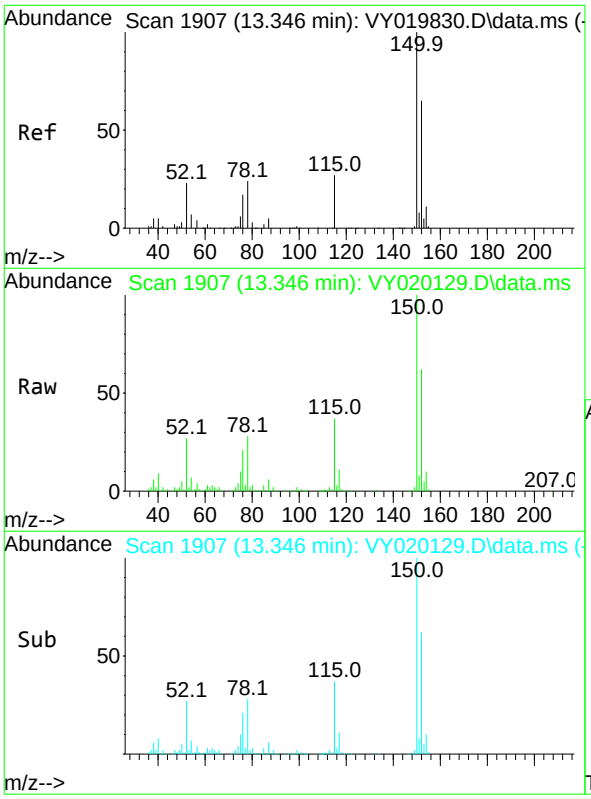
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:117 Resp: 309515

Ion	Ratio	Lower	Upper
117	100		
82	60.9	42.4	63.6
119	32.2	25.9	38.9

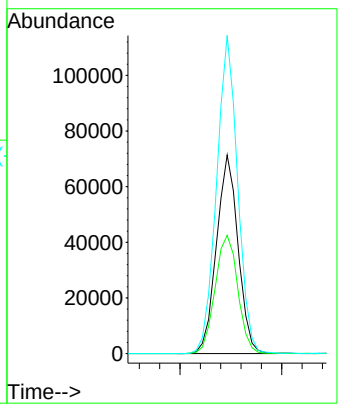




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Tgt Ion:152 Resp: 105144

Ion	Ratio	Lower	Upper
152	100		
115	62.6	28.2	84.7
150	156.2	0.0	345.6



Raw Data: **VY020130.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	90.5
Sample Wt/Vol:	7.16 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020130.D	1		11/01/24 19:27	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	3.90	ug/Kg
74-87-3	Chloromethane	0.90	U	0.90	3.90	ug/Kg
75-01-4	Vinyl Chloride	0.59	U	0.59	3.90	ug/Kg
74-83-9	Bromomethane	0.79	U	0.79	3.90	ug/Kg
75-00-3	Chloroethane	0.78	U	0.78	3.90	ug/Kg
75-69-4	Trichlorofluoromethane	0.70	U	0.70	3.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.83	U	0.83	3.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.60	U	0.60	3.90	ug/Kg
67-64-1	Acetone	4.80	U	4.80	19.3	ug/Kg
75-15-0	Carbon Disulfide	0.99	U	0.99	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.52	U	0.52	3.90	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	3.90	ug/Kg
75-09-2	Methylene Chloride	4.90	J	2.60	7.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.65	U	0.65	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.49	U	0.49	3.90	ug/Kg
110-82-7	Cyclohexane	0.53	U	0.53	3.90	ug/Kg
78-93-3	2-Butanone	4.40	U	4.40	19.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.67	U	0.67	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.47	U	0.47	3.90	ug/Kg
74-97-5	Bromochloromethane	1.90	U	1.90	3.90	ug/Kg
67-66-3	Chloroform	0.52	U	0.52	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.60	U	0.60	3.90	ug/Kg
108-87-2	Methylcyclohexane	0.67	U	0.67	3.90	ug/Kg
71-43-2	Benzene	0.56	U	0.56	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.47	U	0.47	3.90	ug/Kg
79-01-6	Trichloroethene	0.58	U	0.58	3.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.51	U	0.51	3.90	ug/Kg
75-27-4	Bromodichloromethane	0.43	U	0.43	3.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.40	U	3.40	19.3	ug/Kg
108-88-3	Toluene	0.52	U	0.52	3.90	ug/Kg

Raw Data: **VY020130.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	90.5
Sample Wt/Vol:	7.16 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020130.D	1		11/01/24 19:27	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.46	U	0.46	3.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.44	U	0.44	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.65	U	0.65	3.90	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	19.3	ug/Kg
124-48-1	Dibromochloromethane	0.50	U	0.50	3.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.61	U	0.61	3.90	ug/Kg
127-18-4	Tetrachloroethene	0.69	U	0.69	3.90	ug/Kg
108-90-7	Chlorobenzene	0.57	U	0.57	3.90	ug/Kg
100-41-4	Ethyl Benzene	0.48	U	0.48	3.90	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	7.70	ug/Kg
95-47-6	o-Xylene	0.54	U	0.54	3.90	ug/Kg
100-42-5	Styrene	0.46	U	0.46	3.90	ug/Kg
75-25-2	Bromoform	0.63	U	0.63	3.90	ug/Kg
98-82-8	Isopropylbenzene	0.52	U	0.52	3.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.85	U	0.85	3.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.57	U	0.57	3.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.62	U	0.62	3.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.46	U	0.46	3.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.20	U	1.20	3.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.61	U	0.61	3.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.60	U	0.60	3.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.9		70 (50) - 130 (163)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		70 (54) - 130 (147)	103%	SPK: 50
2037-26-5	Toluene-d8	49.7		70 (58) - 130 (134)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		70 (29) - 130 (146)	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	7.707			
540-36-3	1,4-Difluorobenzene	335000	8.616			
3114-55-4	Chlorobenzene-d5	302000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	104000	13.346			

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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	90.5
Sample Wt/Vol:	7.16 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020130.D	1		11/01/24 19:27	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Sample Results: **VY020130.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020130.D
Acq On : 01 Nov 2024 19:27
Operator : SY/MD
Sample : P4663-05
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

Quant Time: Nov 04 00:52:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

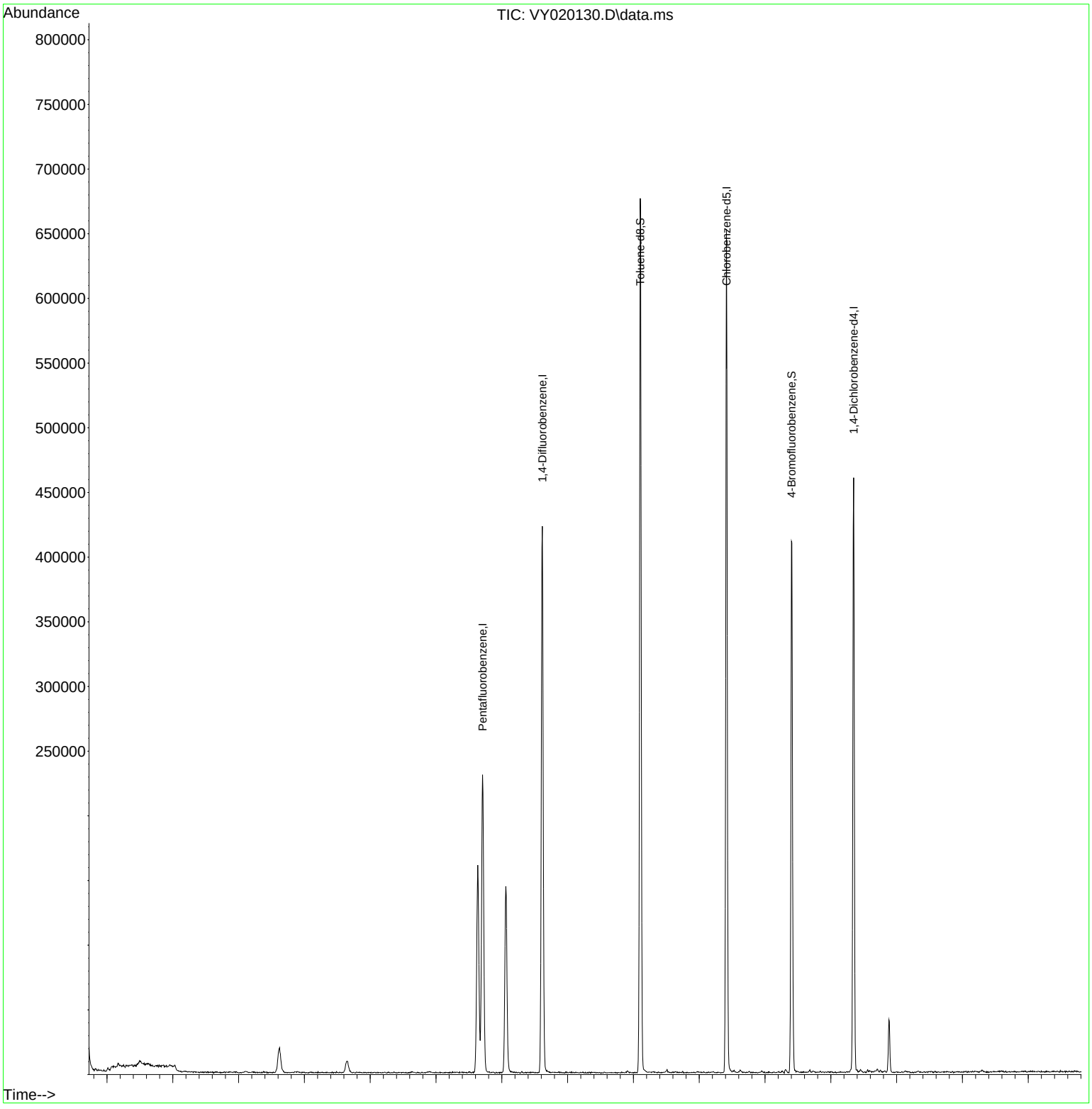
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	159663	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	335103	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	302177	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	103950	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	113327	56.871	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.740%			
35) Dibromofluoromethane	7.634	113	109596	51.440	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.880%			
50) Toluene-d8	10.103	98	421703	49.725	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.460%			
62) 4-Bromofluorobenzene	12.401	95	121935	44.265	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 88.540%			
Target Compounds						Qvalue
20) Methylene Chloride	4.616	84	13159	6.321	ug/l #	73

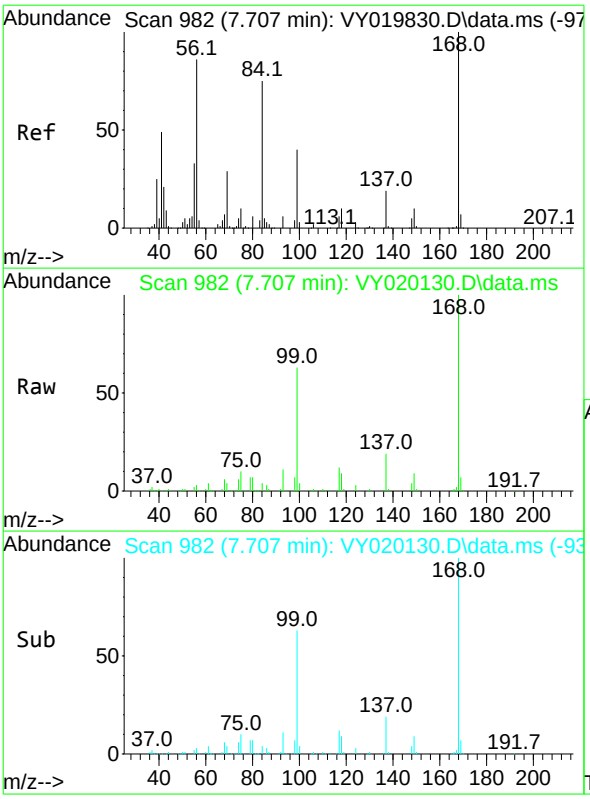
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020130.D
Acq On : 01 Nov 2024 19:27
Operator : SY/MD
Sample : P4663-05
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

Quant Time: Nov 04 00:52:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



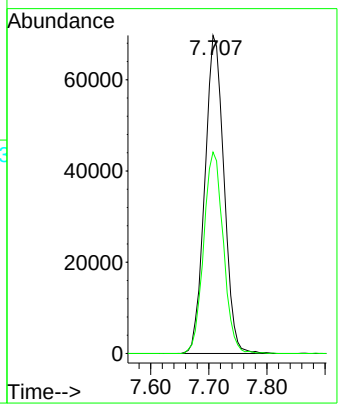


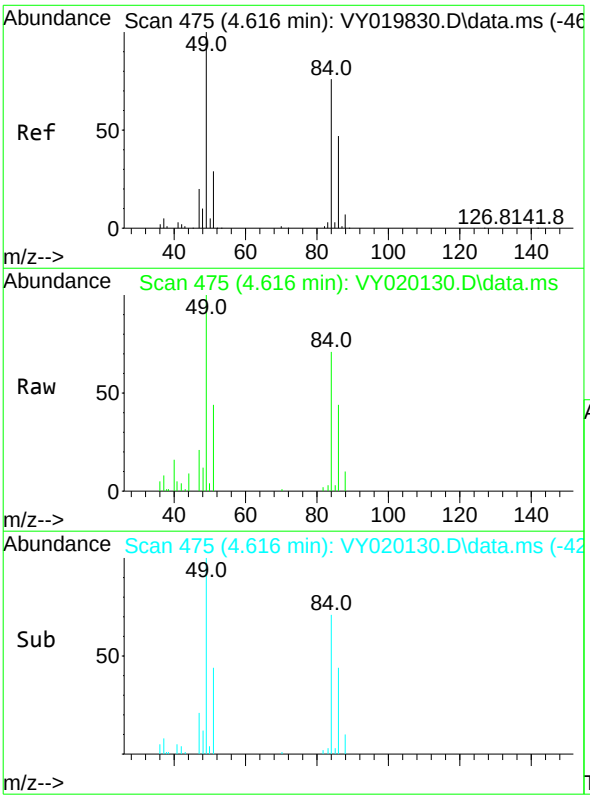
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:168 Resp: 159663

Ion	Ratio	Lower	Upper
168	100		
99	63.3	39.1	58.7#

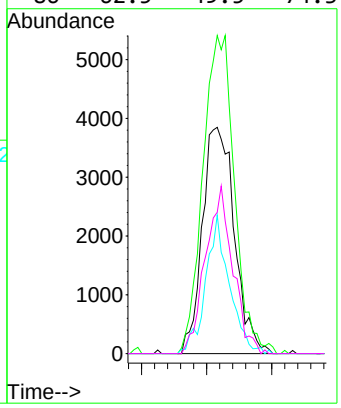


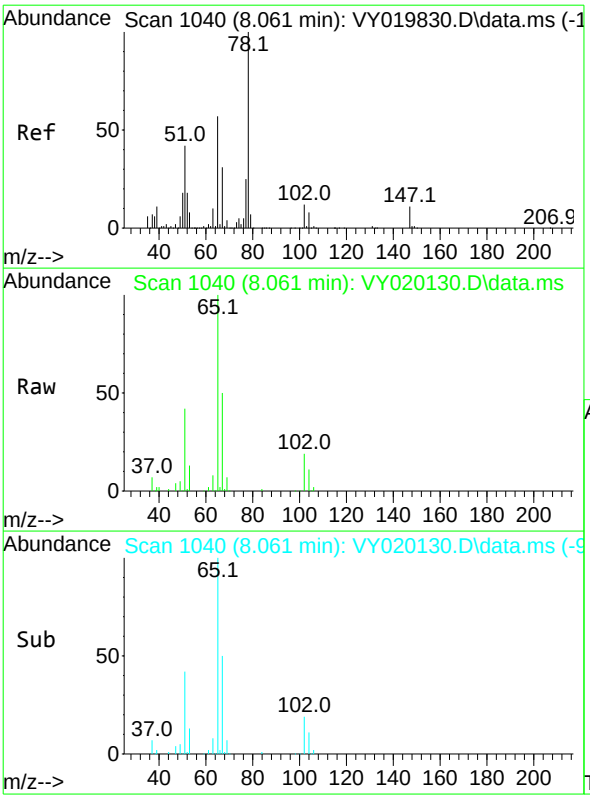


#20
Methylene Chloride
Concen: 6.321 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Tgt Ion: 84 Resp: 13159

Ion	Ratio	Lower	Upper
84	100		
49	140.6	84.4	126.6#
51	61.3	26.0	39.0#
86	62.5	49.5	74.3



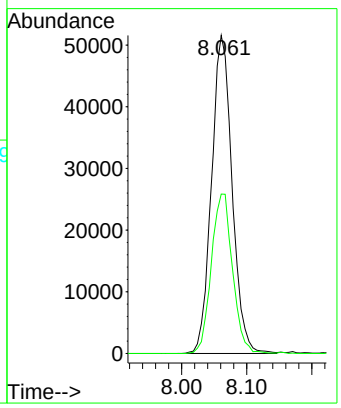


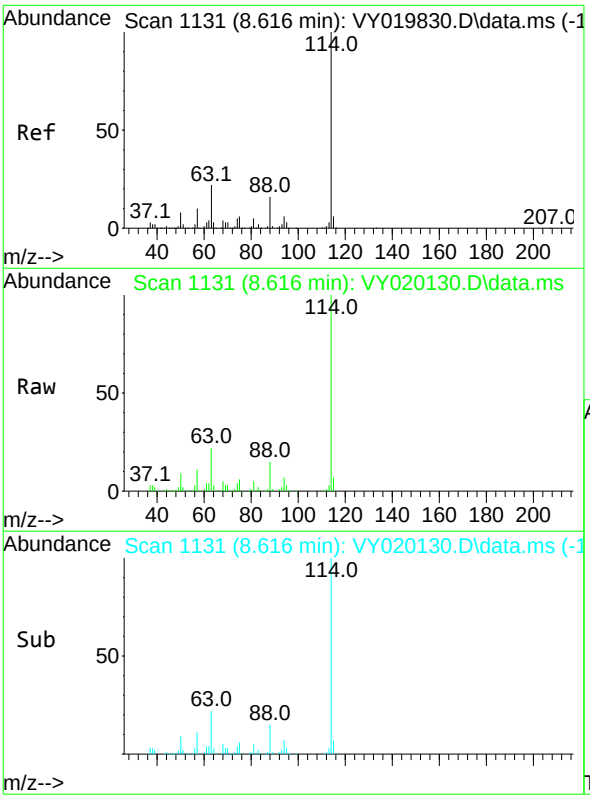
#33
1,2-Dichloroethane-d4
Concen: 56.871 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion: 65 Resp: 113327

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	109.6

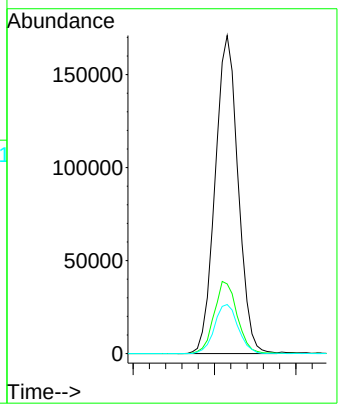


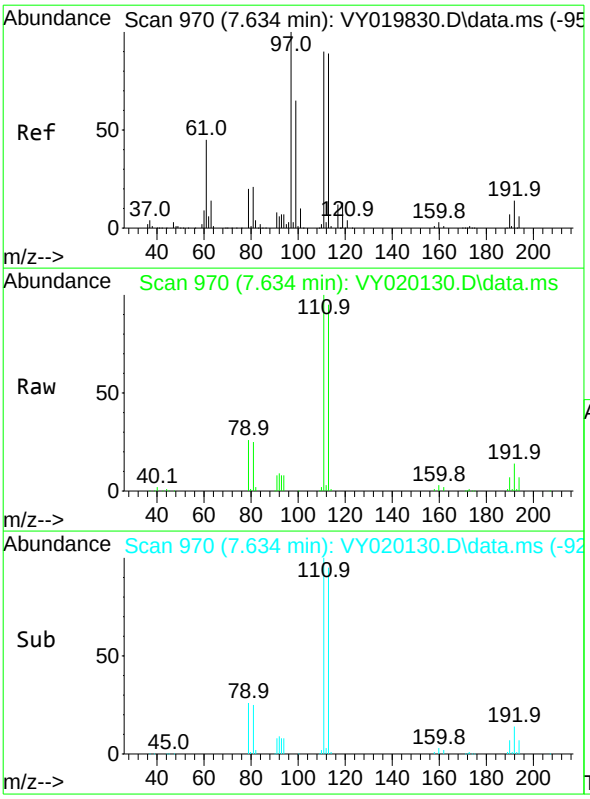


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Tgt Ion:114 Resp: 335103

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	35.0
88	15.4	0.0	27.2



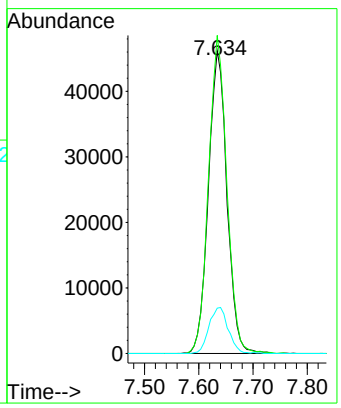


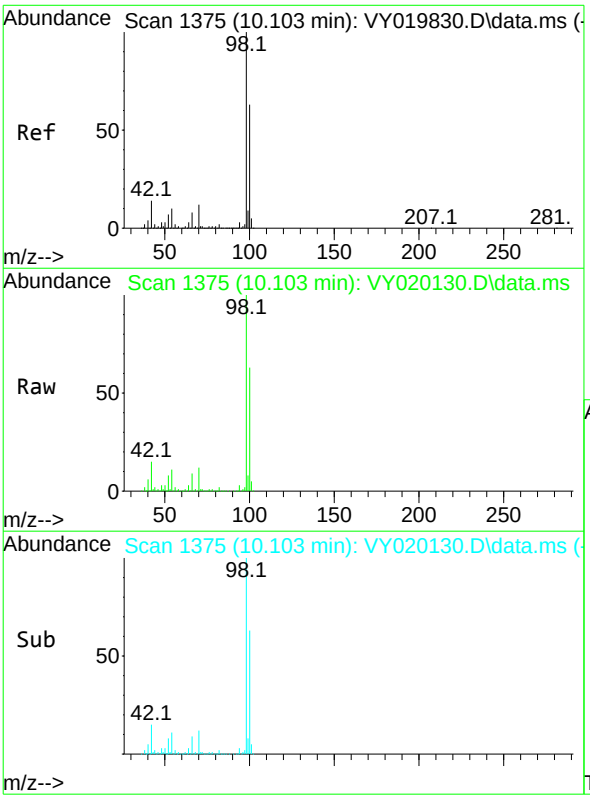
#35
Dibromofluoromethane
Concen: 51.440 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:113 Resp: 109596

Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.2	123.4
192	15.8	15.9	23.9#

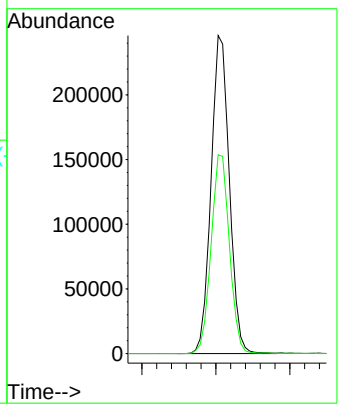


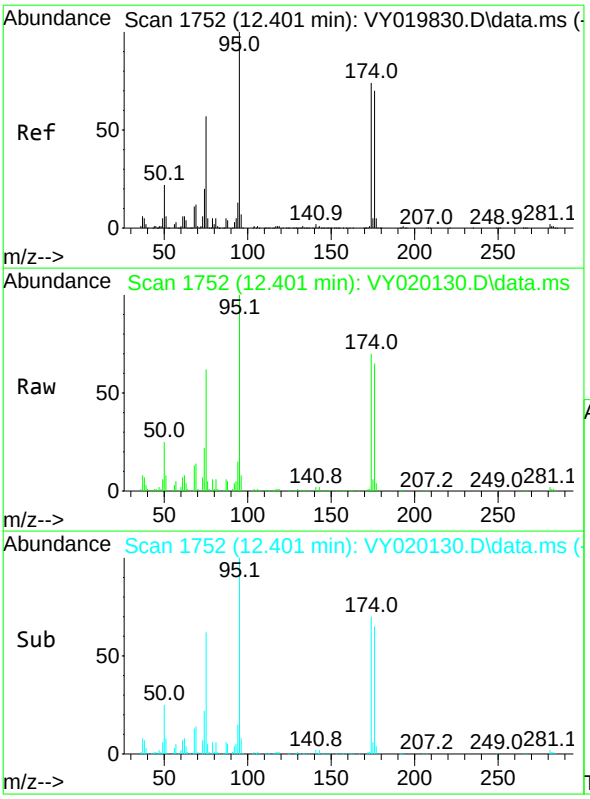


#50
Toluene-d8
Concen: 49.725 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Tgt Ion: 98 Resp: 421703

Ion	Ratio	Lower	Upper
98	100		
100	62.7	52.0	78.0



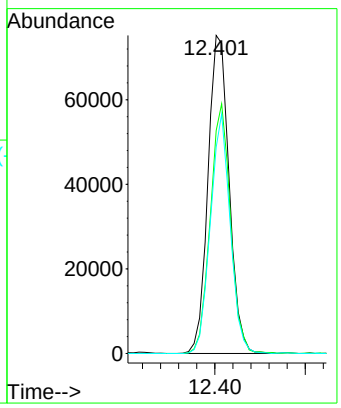


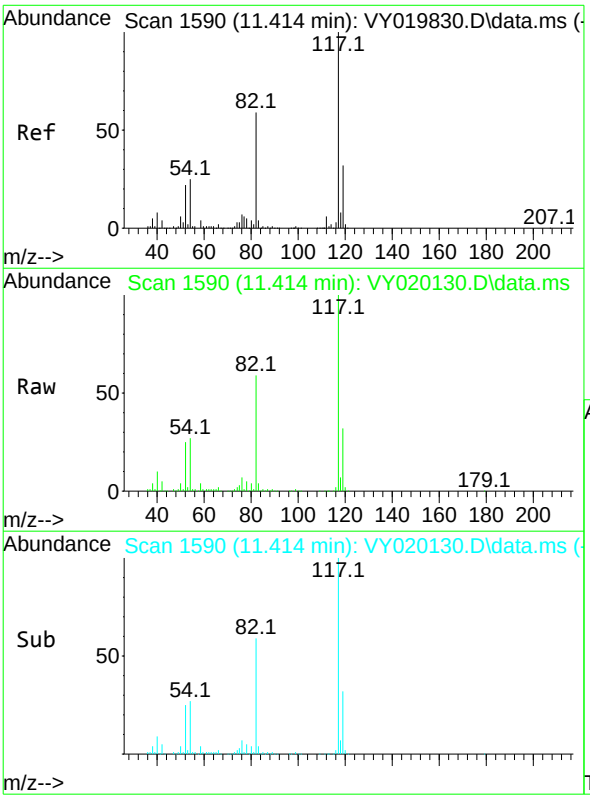
#62
4-Bromofluorobenzene
Concen: 44.265 ug/l
RT: 12.401 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion: 95 Resp: 121935

Ion	Ratio	Lower	Upper
95	100		
174	75.3	0.0	175.6
176	70.4	0.0	171.4

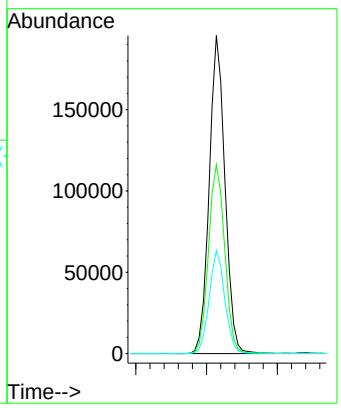


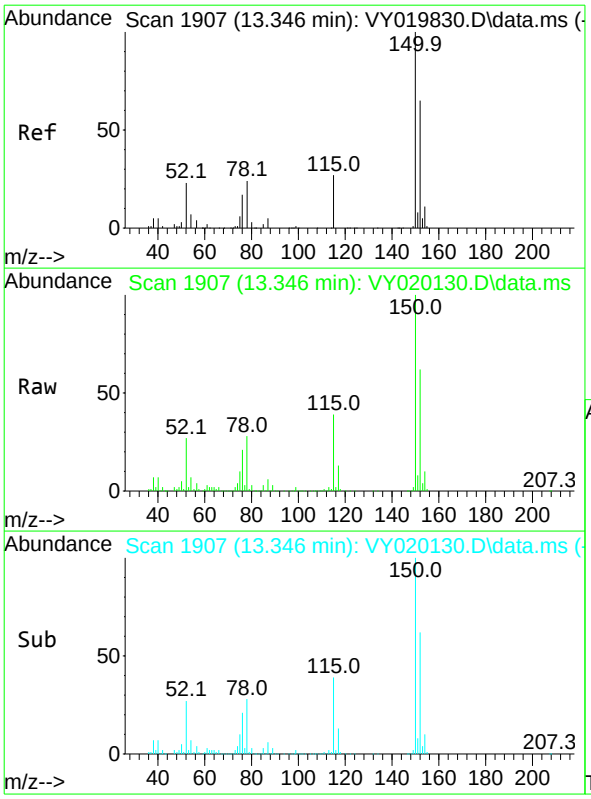


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Tgt Ion:117 Resp: 302177

Ion	Ratio	Lower	Upper
117	100		
82	59.4	42.4	63.6
119	32.4	25.9	38.9



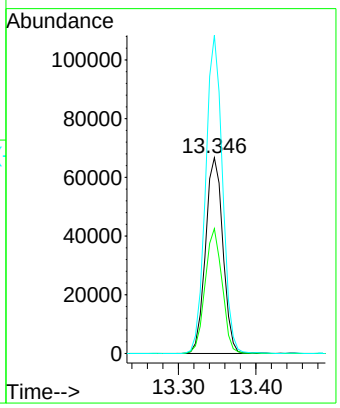


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:152 Resp: 103950

Ion	Ratio	Lower	Upper
152	100		
115	62.4	28.2	84.7
150	157.8	0.0	345.6



Raw Data: **VY020124.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.7
Sample Wt/Vol:	6.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020124.D	1		11/01/24 17:07	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	4.80	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.80	ug/Kg
75-01-4	Vinyl Chloride	0.74	U	0.74	4.80	ug/Kg
74-83-9	Bromomethane	0.99	U	0.99	4.80	ug/Kg
75-00-3	Chloroethane	0.97	U	0.97	4.80	ug/Kg
75-69-4	Trichlorofluoromethane	0.88	U	0.88	4.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.75	U	0.75	4.80	ug/Kg
67-64-1	Acetone	6.00	U	6.00	24.1	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.65	U	0.65	4.80	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	4.80	ug/Kg
75-09-2	Methylene Chloride	3.30	U	3.30	9.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.81	U	0.81	4.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.61	U	0.61	4.80	ug/Kg
110-82-7	Cyclohexane	0.66	U	0.66	4.80	ug/Kg
78-93-3	2-Butanone	5.50	U	5.50	24.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.84	U	0.84	4.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.59	U	0.59	4.80	ug/Kg
74-97-5	Bromochloromethane	2.30	U	2.30	4.80	ug/Kg
67-66-3	Chloroform	0.65	U	0.65	4.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.75	U	0.75	4.80	ug/Kg
108-87-2	Methylcyclohexane	0.84	U	0.84	4.80	ug/Kg
71-43-2	Benzene	0.69	U	0.69	4.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.59	U	0.59	4.80	ug/Kg
79-01-6	Trichloroethene	0.72	U	0.72	4.80	ug/Kg
78-87-5	1,2-Dichloropropane	0.64	U	0.64	4.80	ug/Kg
75-27-4	Bromodichloromethane	0.54	U	0.54	4.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.20	U	4.20	24.1	ug/Kg
108-88-3	Toluene	0.65	U	0.65	4.80	ug/Kg

Raw Data: **VY020124.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.7
Sample Wt/Vol:	6.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020124.D	1		11/01/24 17:07	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.58	U	0.58	4.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.55	U	0.55	4.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.81	U	0.81	4.80	ug/Kg
591-78-6	2-Hexanone	4.60	U	4.60	24.1	ug/Kg
124-48-1	Dibromochloromethane	0.63	U	0.63	4.80	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.80	ug/Kg
127-18-4	Tetrachloroethene	0.86	U	0.86	4.80	ug/Kg
108-90-7	Chlorobenzene	0.71	U	0.71	4.80	ug/Kg
100-41-4	Ethyl Benzene	0.60	U	0.60	4.80	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	9.60	ug/Kg
95-47-6	o-Xylene	0.67	U	0.67	4.80	ug/Kg
100-42-5	Styrene	0.58	U	0.58	4.80	ug/Kg
75-25-2	Bromoform	0.78	U	0.78	4.80	ug/Kg
98-82-8	Isopropylbenzene	0.65	U	0.65	4.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.71	U	0.71	4.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.77	U	0.77	4.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.57	U	0.57	4.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.76	U	0.76	4.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.75	4.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.0		70 (50) - 130 (163)	120%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		70 (54) - 130 (147)	106%	SPK: 50
2037-26-5	Toluene-d8	49.9		70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		70 (29) - 130 (146)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	169000	7.707			
540-36-3	1,4-Difluorobenzene	354000	8.616			
3114-55-4	Chlorobenzene-d5	335000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	125000	13.346			

Raw Data: **VY020124.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.7
Sample Wt/Vol:	6.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020124.D	1		11/01/24 17:07	VY110124

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\VY110124\
Data File : VY020124.D
Acq On : 01 Nov 2024 17:07
Operator : SY/MD
Sample : P4663-07
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-2

Quant Time: Nov 04 00:50:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

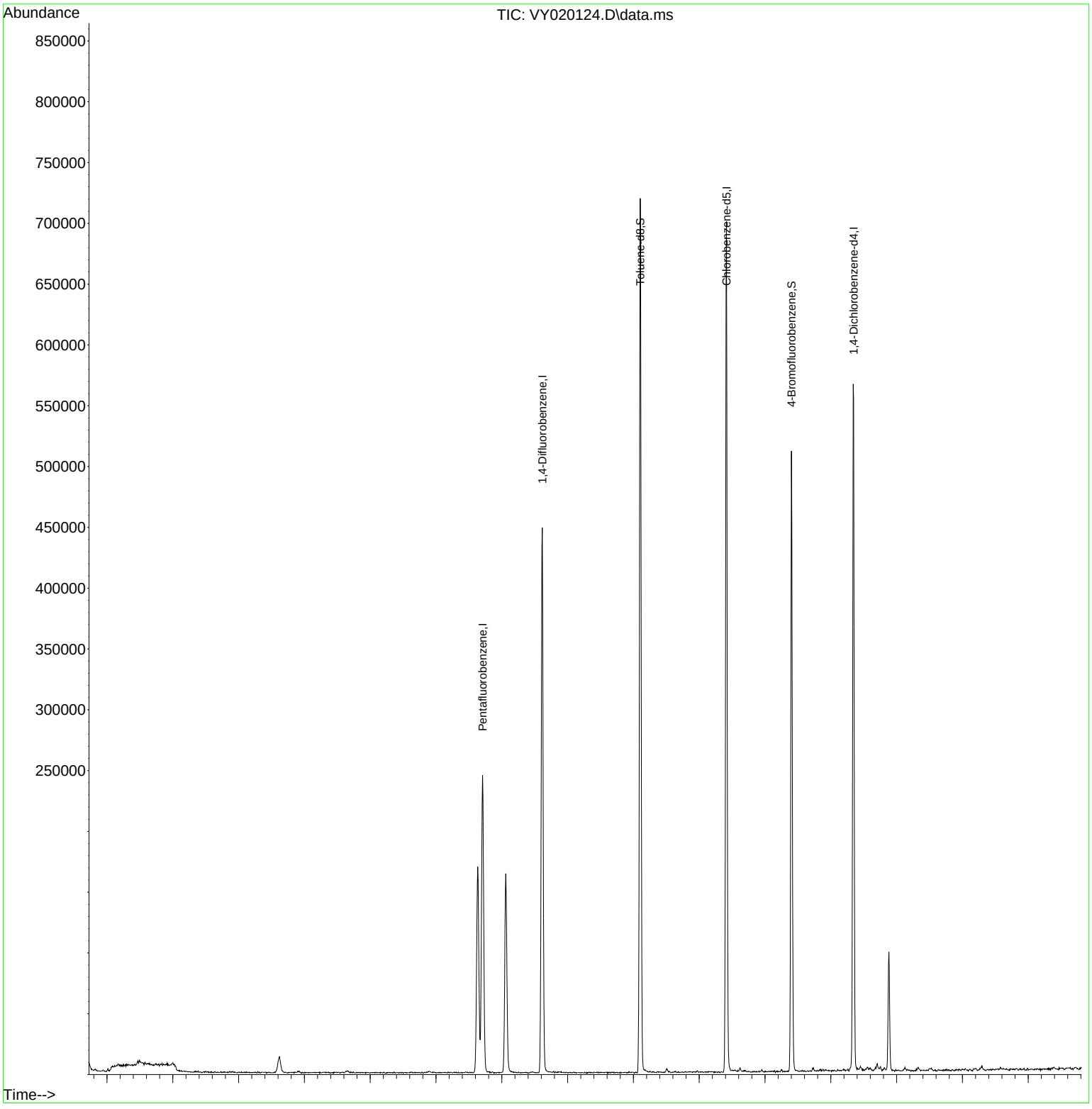
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	168827	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	353605	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	335031	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	125105	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	126365	59.972	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 119.940%			
35) Dibromofluoromethane	7.634	113	119345	53.085	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.160%			
50) Toluene-d8	10.103	98	446124	49.852	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.700%			
62) 4-Bromofluorobenzene	12.401	95	141456	48.665	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 97.340%			
Target Compounds						Qvalue

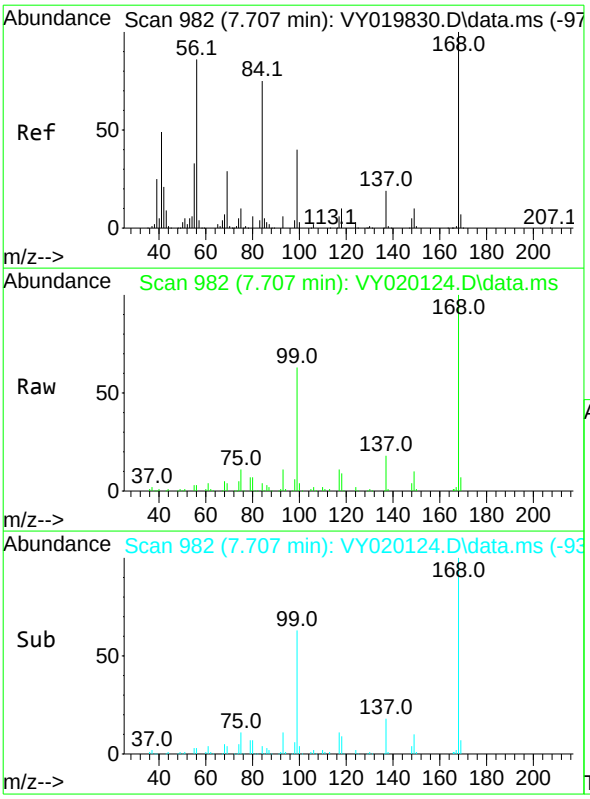
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020124.D
Acq On : 01 Nov 2024 17:07
Operator : SY/MD
Sample : P4663-07
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-2

Quant Time: Nov 04 00:50:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



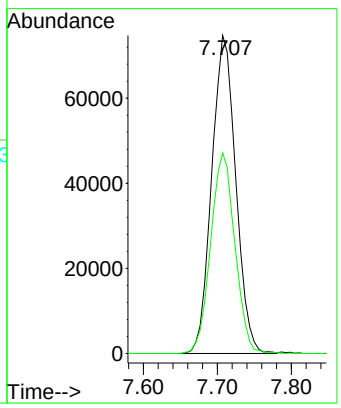


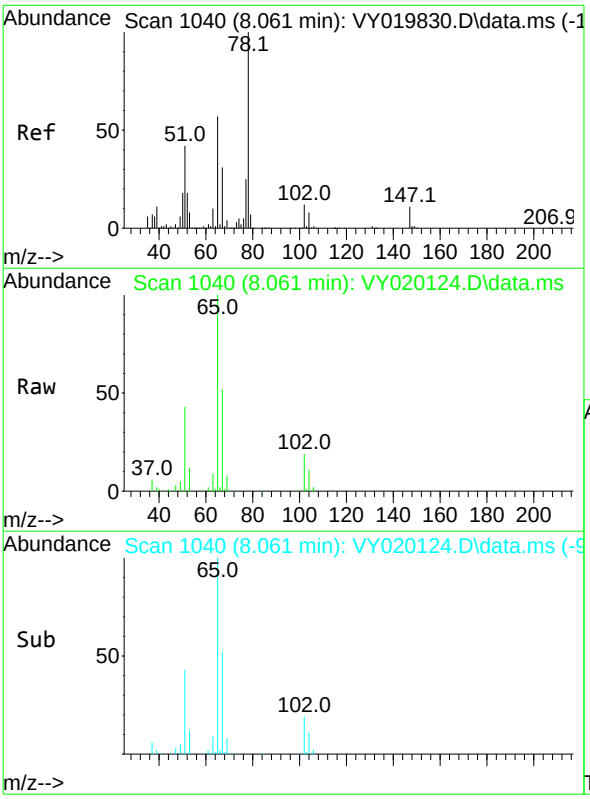
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:168 Resp: 168827

Ion	Ratio	Lower	Upper
168	100		
99	63.1	39.1	58.7#

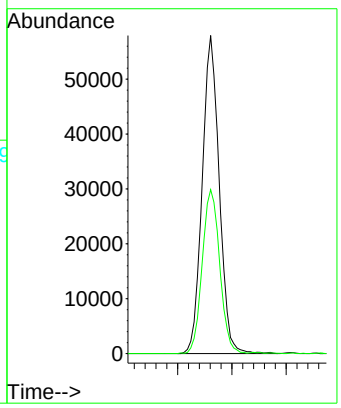


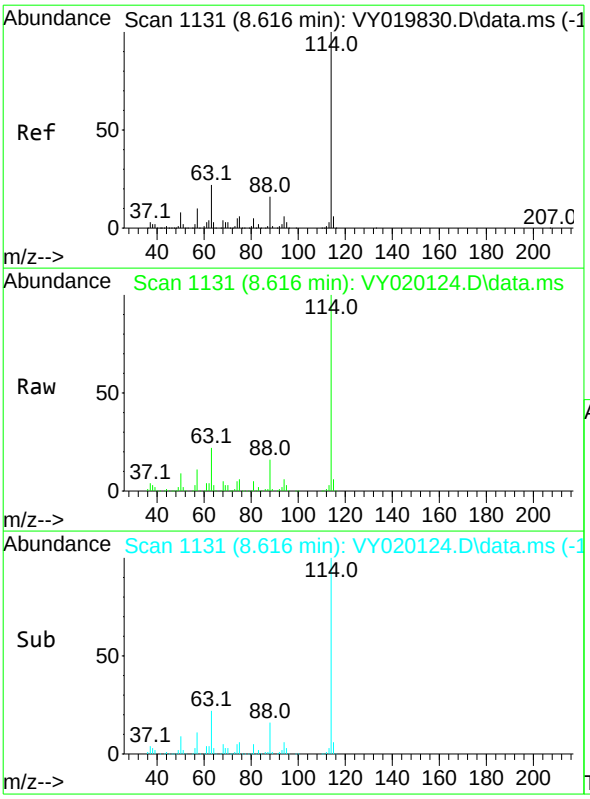


#33
1,2-Dichloroethane-d4
Concen: 59.972 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Tgt Ion: 65 Resp: 126365

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	109.6



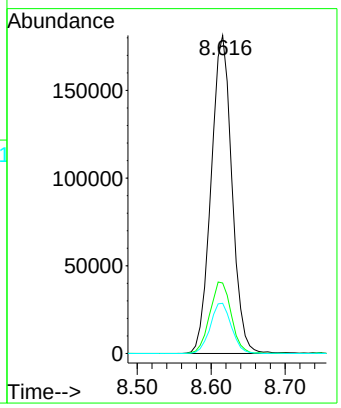


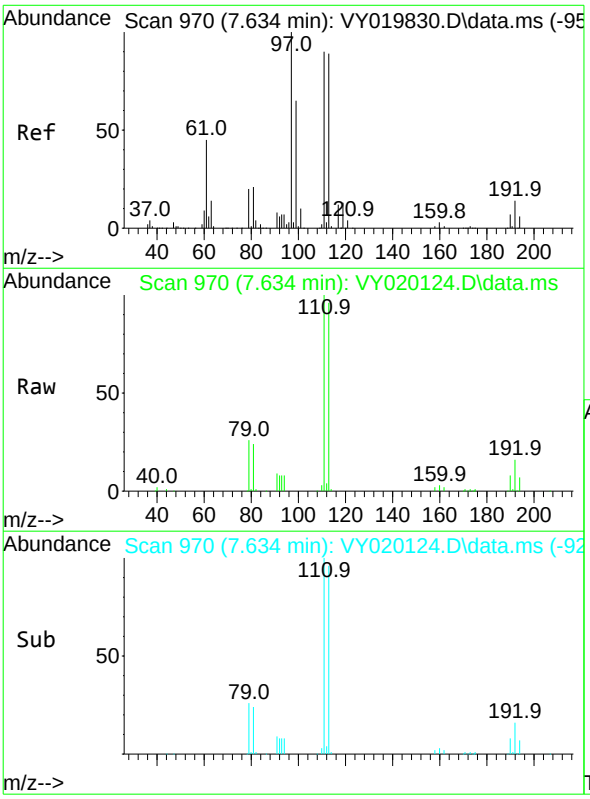
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:114 Resp: 353605

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	35.0
88	15.8	0.0	27.2

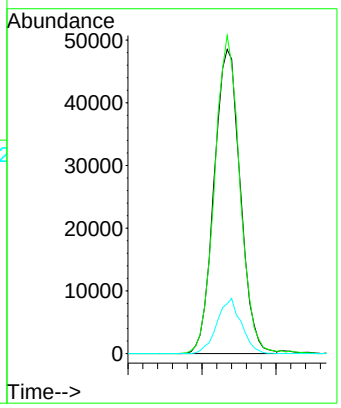


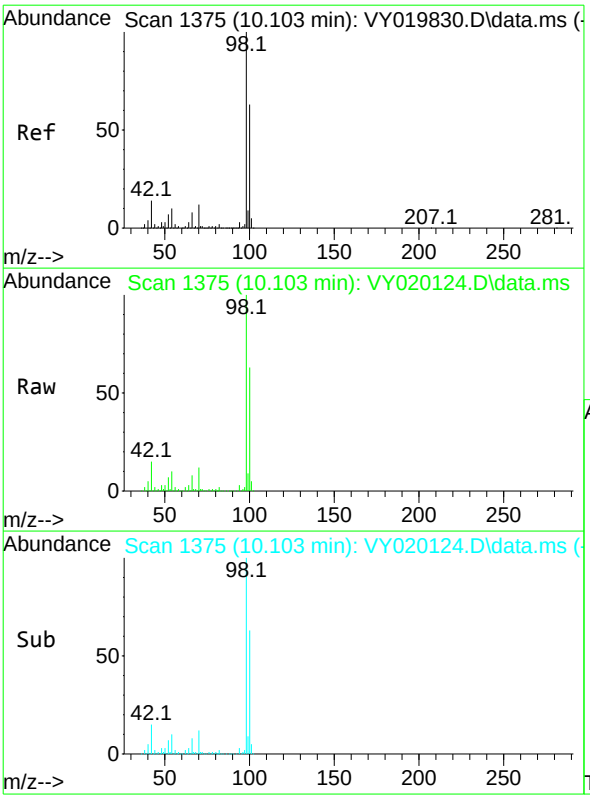


#35
Dibromofluoromethane
Concen: 53.085 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Tgt Ion:113 Resp: 119345

Ion	Ratio	Lower	Upper
113	100		
111	101.1	82.2	123.4
192	16.8	15.9	23.9



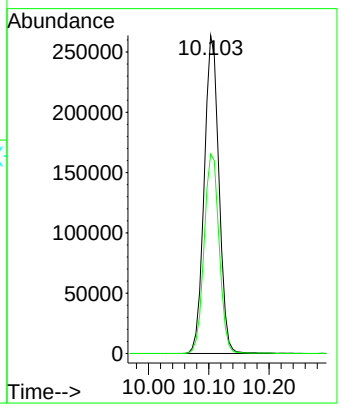


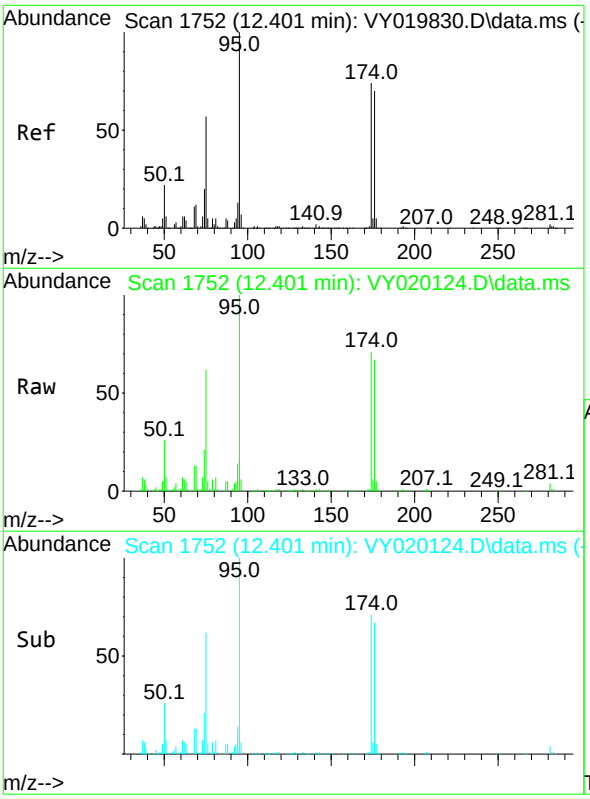
#50
Toluene-d8
Concen: 49.852 ug/l
RT: 10.103 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion: 98 Resp: 446124

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.0	78.0

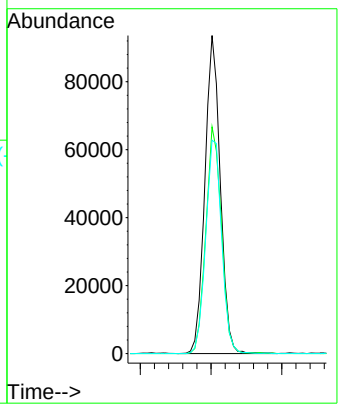


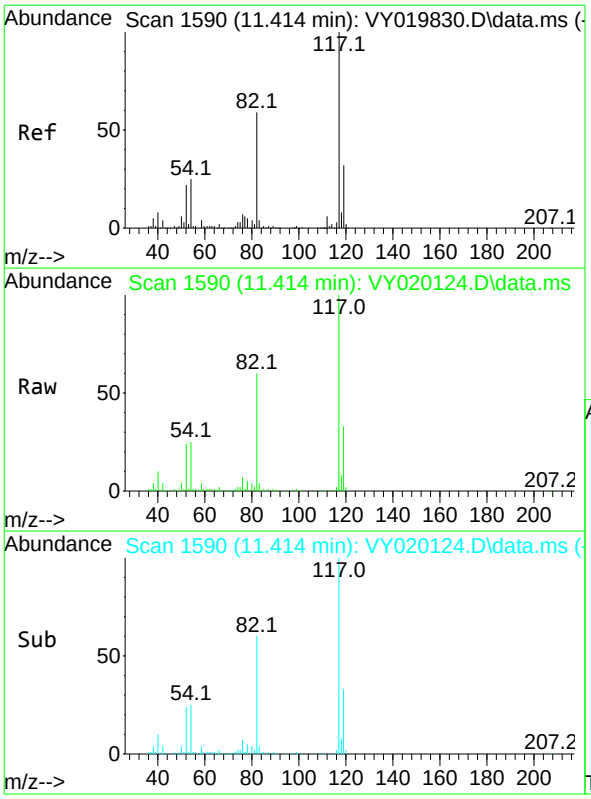


#62
4-Bromofluorobenzene
Concen: 48.665 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Tgt Ion: 95 Resp: 141456

Ion	Ratio	Lower	Upper
95	100		
174	72.3	0.0	175.6
176	69.7	0.0	171.4



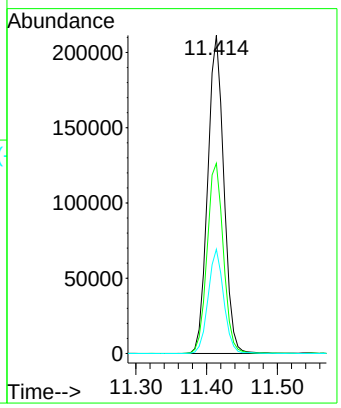


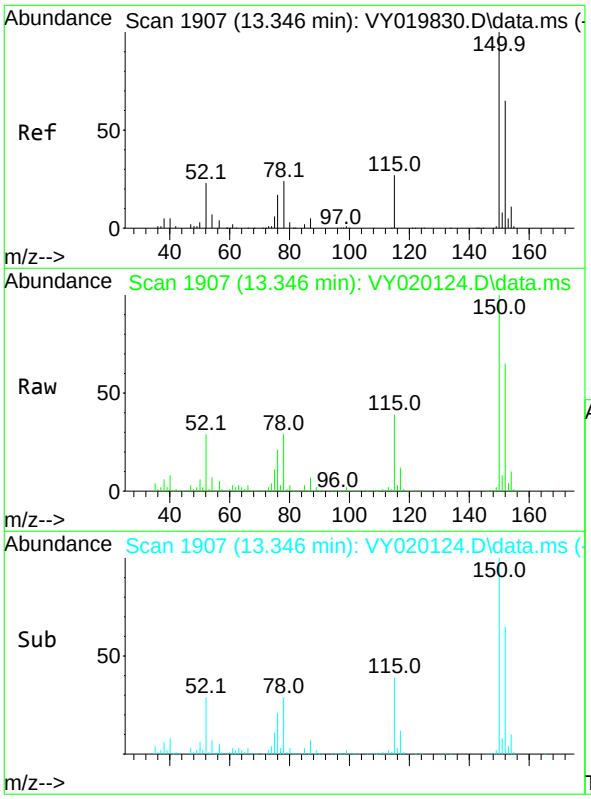
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:117 Resp: 335031

Ion	Ratio	Lower	Upper
117	100		
82	59.8	42.4	63.6
119	32.8	25.9	38.9

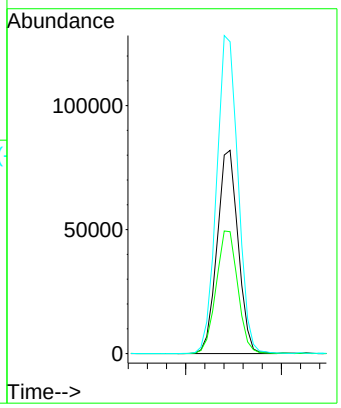




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Tgt Ion:152 Resp: 125105

Ion	Ratio	Lower	Upper
152	100		
115	62.1	28.2	84.7
150	159.4	0.0	345.6



CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: MSVOA_Y Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Calibration Time(s): 12:39 14:52

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

LAB FILE ID: RRF005 = VY020075.D RRF010 = VY020076.D RRF020 = VY020077.D
RRF050 = VY020078.D RRF100 = VY020079.D RRF150 = VY020080.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.507	0.488	0.482	0.381	0.456	0.463	0.463	9.5
Chloromethane	0.831	0.835	0.791	0.683	0.731	0.728	0.767	8.1
Vinyl Chloride	0.867	0.874	0.835	0.754	0.809	0.799	0.823	5.5
Bromomethane	0.631	0.574	0.545	0.480	0.521	0.528	0.546	9.5
Chloroethane	0.562	0.555	0.546	0.486	0.527	0.511	0.531	5.5
Trichlorofluoromethane	1.025	1.018	1.037	0.927	1.012	1.014	1.005	3.9
1,1,2-Trichlorotrifluoroethane	0.597	0.584	0.567	0.509	0.561	0.565	0.564	5.3
1,1-Dichloroethene	0.534	0.578	0.536	0.493	0.543	0.552	0.540	5.1
Acetone	0.134	0.138	0.138	0.140	0.165	0.155	0.145	8.5
Carbon Disulfide	1.790	1.835	1.806	1.674	1.832	1.837	1.796	3.5
Methyl tert-butyl Ether	1.229	1.344	1.376	1.241	1.483	1.471	1.357	8
Methyl Acetate	0.314	0.357	0.351	0.317	0.362	0.342	0.340	6
Methylene Chloride	0.807	0.716	0.641	0.555	0.597	0.597	0.652	14.3
trans-1,2-Dichloroethene	0.611	0.618	0.613	0.564	0.616	0.628	0.609	3.7
1,1-Dichloroethane	1.155	1.209	1.189	1.070	1.194	1.200	1.170	4.5
Cyclohexane	1.284	1.206	1.138	0.986	1.093	1.088	1.132	9.1
2-Butanone	0.187	0.197	0.192	0.179	0.219	0.206	0.197	7.3
Carbon Tetrachloride	0.467	0.491	0.499	0.462	0.519	0.524	0.494	5.2
cis-1,2-Dichloroethene	0.646	0.714	0.715	0.646	0.740	0.736	0.700	6.1
Bromochloromethane	0.572	0.562	0.527	0.505	0.553	0.567	0.548	4.8
Chloroform	1.141	1.170	1.186	1.068	1.196	1.203	1.161	4.3
1,1,1-Trichloroethane	0.986	1.026	1.009	0.950	1.041	1.069	1.013	4.1
Methylcyclohexane	0.603	0.602	0.631	0.578	0.665	0.661	0.623	5.6
Benzene	1.414	1.405	1.455	1.325	1.504	1.498	1.433	4.7
1,2-Dichloroethane	0.379	0.391	0.402	0.365	0.425	0.418	0.397	5.8
Trichloroethene	0.328	0.331	0.332	0.307	0.348	0.346	0.332	4.4
1,2-Dichloropropane	0.323	0.331	0.357	0.320	0.363	0.364	0.343	6
Bromodichloromethane	0.459	0.476	0.487	0.451	0.526	0.522	0.487	6.4
4-Methyl-2-Pentanone	0.190	0.223	0.238	0.219	0.269	0.252	0.232	11.9
Toluene	0.803	0.859	0.900	0.833	0.953	0.953	0.884	7.1

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

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: MSVOA_Y Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Calibration Time(s): 12:39 14:52

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

LAB FILE ID: RRF005 = VY020075.D RRF010 = VY020076.D RRF020 = VY020077.D
RRF050 = VY020078.D RRF100 = VY020079.D RRF150 = VY020080.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.369	0.400	0.436	0.401	0.486	0.487	0.430	11.3
cis-1,3-Dichloropropene	0.446	0.485	0.518	0.484	0.573	0.573	0.513	10
1,1,2-Trichloroethane	0.206	0.225	0.235	0.216	0.257	0.248	0.231	8.4
2-Hexanone	0.131	0.161	0.168	0.158	0.198	0.182	0.166	13.7
Dibromochloromethane	0.256	0.281	0.300	0.273	0.332	0.326	0.295	10.3
1,2-Dibromoethane	0.203	0.214	0.215	0.196	0.233	0.228	0.215	6.7
Tetrachloroethene	0.326	0.316	0.344	0.307	0.344	0.343	0.330	4.8
Chlorobenzene	1.024	1.044	1.094	0.993	1.114	1.124	1.065	5
Ethyl Benzene	1.886	1.934	2.015	1.876	2.114	2.124	1.992	5.5
m/p-Xylenes	0.685	0.693	0.742	0.692	0.779	0.782	0.729	6.2
o-Xylene	0.652	0.662	0.686	0.649	0.745	0.745	0.690	6.5
Styrene	0.985	1.080	1.154	1.093	1.259	1.273	1.141	9.8
Bromoform	0.151	0.162	0.173	0.165	0.202	0.195	0.175	11.4
Isopropylbenzene	4.065	3.829	3.995	3.685	4.099	4.293	3.994	5.3
1,1,2,2-Tetrachloroethane	0.716	0.707	0.698	0.624	0.727	0.719	0.699	5.4
1,3-Dichlorobenzene	1.659	1.521	1.680	1.509	1.703	1.774	1.641	6.4
1,4-Dichlorobenzene	1.680	1.604	1.653	1.487	1.666	1.716	1.634	5
1,2-Dichlorobenzene	1.391	1.384	1.460	1.310	1.483	1.530	1.426	5.6
1,2-Dibromo-3-Chloropropane	0.107	0.104	0.106	0.092	0.114	0.112	0.106	7.6
1,2,4-Trichlorobenzene	0.652	0.708	0.784	0.693	0.865	0.895	0.766	12.8
1,2,3-Trichlorobenzene	0.578	0.606	0.653	0.575	0.737	0.754	0.650	12.1
1,2-Dichloroethane-d4	0.608	0.657	0.578	0.586	0.668	0.647	0.624	6.1
Dibromofluoromethane	0.305	0.317	0.300	0.305	0.340	0.340	0.318	5.7
Toluene-d8	1.187	1.251	1.187	1.224	1.380	1.364	1.265	6.8
4-Bromofluorobenzene	0.371	0.402	0.376	0.399	0.463	0.454	0.411	9.5

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

Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y103024S.M
Title : SW846 8260
Last Update : Thu Oct 31 15:23:13 2024
Response Via : Initial Calibration

Calibration Files
5 =VY020075.D 10 =VY020076.D 20 =VY020077.D 50 =VY020078.D 100 =VY020079.D 150 =VY020080.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.507	0.488	0.482	0.381	0.456	0.463	0.463	9.46
3)	P	Chloromethane	0.831	0.835	0.791	0.683	0.731	0.728	0.767	8.07
4)	C	Vinyl Chloride	0.867	0.874	0.835	0.754	0.809	0.799	0.823	5.49#
5)	T	Bromomethane	0.631	0.574	0.545	0.480	0.521	0.528	0.546	9.45
6)	T	Chloroethane	0.562	0.555	0.546	0.486	0.527	0.511	0.531	5.45
7)	T	Trichlorofluor...	1.025	1.018	1.037	0.927	1.012	1.014	1.005	3.92
8)	T	Diethyl Ether	0.261	0.280	0.293	0.252	0.297	0.299	0.280	7.04
9)	T	1,1,2-Trichlor...	0.597	0.584	0.567	0.509	0.561	0.565	0.564	5.30
10)	T	Methyl Iodide	0.499	0.541	0.548	0.517	0.577	0.585	0.544	6.16
11)	T	Tert butyl alc...	0.054	0.056	0.047	0.033	0.041	0.039	0.045	19.94
12)	CM	1,1-Dichloroet...	0.534	0.578	0.536	0.493	0.543	0.552	0.540	5.15#
13)	T	Acrolein	0.051	0.060	0.059	0.050	0.060	0.056	0.056	8.02
14)	T	Allyl chloride	0.955	0.952	0.980	0.915	1.011	1.028	0.973	4.25
15)	T	Acrylonitrile	0.117	0.129	0.129	0.117	0.139	0.134	0.128	7.05
16)	T	Acetone	0.134	0.138	0.138	0.140	0.165	0.155	0.145	8.48
17)	T	Carbon Disulfide	1.790	1.835	1.806	1.674	1.832	1.837	1.796	3.48
18)	T	Methyl Acetate	0.314	0.357	0.351	0.317	0.362	0.342	0.340	6.03
19)	T	Methyl tert-bu...	1.229	1.344	1.376	1.241	1.483	1.471	1.357	8.01
20)	T	Methylene Chlo...	0.807	0.716	0.641	0.555	0.597	0.597	0.652	14.31
21)	T	trans-1,2-Dich...	0.611	0.618	0.613	0.564	0.616	0.628	0.609	3.71
22)	T	Diisopropyl ether	1.824	1.993	2.082	1.893	2.168	2.160	2.020	7.02
23)	T	Vinyl Acetate	0.982	1.112	1.150	1.054	1.274	1.249	1.137	9.87
24)	P	1,1-Dichloroet...	1.155	1.209	1.189	1.070	1.194	1.200	1.170	4.46
25)	T	2-Butanone	0.187	0.197	0.192	0.179	0.219	0.206	0.197	7.32
26)	T	2,2-Dichloropr...	1.043	0.968	0.957	0.881	0.986	1.004	0.973	5.59
27)	T	cis-1,2-Dichlo...	0.646	0.714	0.715	0.646	0.740	0.736	0.700	6.09
28)	T	Bromochloromet...	0.572	0.562	0.527	0.505	0.553	0.567	0.548	4.82
29)	T	Tetrahydrofuran	0.102	0.113	0.114	0.104	0.128	0.120	0.114	8.48
30)	C	Chloroform	1.141	1.170	1.186	1.068	1.196	1.203	1.161	4.33#
31)	T	Cyclohexane	1.284	1.206	1.138	0.986	1.093	1.088	1.132	9.14
32)	T	1,1,1-Trichlor...	0.986	1.026	1.009	0.950	1.041	1.069	1.013	4.13
33)	S	1,2-Dichloroet...	0.608	0.657	0.578	0.586	0.668	0.647	0.624	6.12
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.305	0.317	0.300	0.305	0.340	0.340	0.318	5.66
36)	T	1,1-Dichloropr...	0.482	0.500	0.493	0.450	0.512	0.510	0.491	4.70
37)	T	Ethyl Acetate	0.232	0.226	0.242	0.211	0.255	0.239	0.234	6.37
38)	T	Carbon Tetrach...	0.467	0.491	0.499	0.462	0.519	0.524	0.494	5.23
39)	T	Methylcyclohexane	0.603	0.602	0.631	0.578	0.665	0.661	0.623	5.60
40)	TM	Benzene	1.414	1.405	1.455	1.325	1.504	1.498	1.433	4.67
41)	T	Methacrylonitrile	0.079	0.115	0.131	0.119	0.132	0.127	0.117	16.94
42)	TM	1,2-Dichloroet...	0.379	0.391	0.402	0.365	0.425	0.418	0.397	5.78
43)	T	Isopropyl Acetate	0.390	0.440	0.462	0.412	0.510	0.487	0.450	10.02
44)	TM	Trichloroethene	0.328	0.331	0.332	0.307	0.348	0.346	0.332	4.42
45)	C	1,2-Dichloropr...	0.323	0.331	0.357	0.320	0.363	0.364	0.343	6.01#
46)	T	Dibromomethane	0.173	0.185	0.189	0.171	0.200	0.196	0.186	6.41
47)	T	Bromodichlorom...	0.459	0.476	0.487	0.451	0.526	0.522	0.487	6.45
48)	T	Methyl methacr...	0.161	0.196	0.218	0.197	0.244	0.236	0.209	14.58
49)	T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	10.64
50)	S	Toluene-d8	1.187	1.251	1.187	1.224	1.380	1.364	1.265	6.79
51)	T	4-Methyl-2-Pen...	0.190	0.223	0.238	0.219	0.269	0.252	0.232	11.91
52)	CM	Toluene	0.803	0.859	0.900	0.833	0.953	0.953	0.884	7.08#
53)	T	t-1,3-Dichloro...	0.369	0.400	0.436	0.401	0.486	0.487	0.430	11.35
54)	T	cis-1,3-Dichlo...	0.446	0.485	0.518	0.484	0.573	0.573	0.513	10.05
55)	T	1,1,2-Trichlor...	0.206	0.225	0.235	0.216	0.257	0.248	0.231	8.38

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y103024S.M

56)	T	Ethyl methacry...	0.250	0.302	0.337	0.315	0.396	0.388	0.331	16.56
57)	T	1,3-Dichloropr...	0.383	0.411	0.438	0.393	0.464	0.449	0.423	7.67
58)	T	2-Chloroethyl ...	0.132	0.155	0.167	0.160	0.186	0.180	0.163	11.81
59)	T	2-Hexanone	0.131	0.161	0.168	0.158	0.198	0.182	0.166	13.74
60)	T	Dibromochlorom...	0.256	0.281	0.300	0.273	0.332	0.326	0.295	10.31
61)	T	1,2-Dibromoethane	0.203	0.214	0.215	0.196	0.233	0.228	0.215	6.66
62)	S	4-Bromofluorob...	0.371	0.402	0.376	0.399	0.463	0.454	0.411	9.49
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.326	0.316	0.344	0.307	0.344	0.343	0.330	4.84
65)	PM	Chlorobenzene	1.024	1.044	1.094	0.993	1.114	1.124	1.065	4.99
66)	T	1,1,1,2-Tetrac...	0.312	0.332	0.345	0.317	0.365	0.370	0.340	7.12
67)	C	Ethyl Benzene	1.886	1.934	2.015	1.876	2.114	2.124	1.992	5.54#
68)	T	m/p-Xylenes	0.685	0.693	0.742	0.692	0.779	0.782	0.729	6.18
69)	T	o-Xylene	0.652	0.662	0.686	0.649	0.745	0.745	0.690	6.48
70)	T	Styrene	0.985	1.080	1.154	1.093	1.259	1.273	1.141	9.77
71)	P	Bromoform	0.151	0.162	0.173	0.165	0.202	0.195	0.175	11.41
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	4.065	3.829	3.995	3.685	4.099	4.293	3.994	5.35
74)	T	N-amyl acetate	0.835	0.907	1.004	0.918	1.156	1.171	0.998	13.89
75)	P	1,1,2,2-Tetrac...	0.716	0.707	0.698	0.624	0.727	0.719	0.699	5.40
76)	T	1,2,3-Trichlor...	0.387	0.563	0.479	0.428	0.477	0.478	0.469	12.64
77)	T	Bromobenzene	0.830	0.761	0.806	0.742	0.843	0.866	0.808	5.96
78)	T	n-propylbenzene	5.003	4.849	5.049	4.581	5.082	5.263	4.971	4.69
79)	T	2-Chlorotoluene	2.788	2.705	2.774	2.517	2.814	2.958	2.759	5.26
80)	T	1,3,5-Trimethy...	3.201	3.025	3.270	2.973	3.310	3.461	3.207	5.70
81)	T	trans-1,4-Dich...	0.208	0.210	0.211	0.197	0.238	0.243	0.218	8.40
82)	T	4-Chlorotoluene	2.774	2.702	2.871	2.606	2.904	3.025	2.813	5.35
83)	T	tert-Butylbenzene	2.826	2.624	2.798	2.664	2.888	3.024	2.804	5.24
84)	T	1,2,4-Trimethy...	3.062	3.025	3.203	2.942	3.338	3.486	3.176	6.51
85)	T	sec-Butylbenzene	4.277	4.160	4.350	4.002	4.440	4.598	4.305	4.86
86)	T	p-Isopropyltol...	3.296	3.254	3.522	3.235	3.617	3.803	3.454	6.68
87)	T	1,3-Dichlorobe...	1.659	1.521	1.680	1.509	1.703	1.774	1.641	6.42
88)	T	1,4-Dichlorobe...	1.680	1.604	1.653	1.487	1.666	1.716	1.634	4.95
89)	T	n-Butylbenzene	3.312	3.215	3.533	3.256	3.663	3.797	3.463	6.88
90)	T	Hexachloroethane	0.669	0.664	0.684	0.628	0.713	0.741	0.683	5.79
91)	T	1,2-Dichlorobe...	1.391	1.384	1.460	1.310	1.483	1.530	1.426	5.58
92)	T	1,2-Dibromo-3-...	0.107	0.104	0.106	0.092	0.114	0.112	0.106	7.59
93)	T	1,2,4-Trichlor...	0.652	0.708	0.784	0.693	0.865	0.895	0.766	12.83
94)	T	Hexachlorobuta...	0.403	0.389	0.422	0.389	0.454	0.456	0.419	7.30
95)	T	Naphthalene	1.116	1.209	1.420	1.325	1.760	1.765	1.432	19.22
96)	T	1,2,3-Trichlor...	0.578	0.606	0.653	0.575	0.737	0.754	0.650	12.13

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020075.D
Acq On : 30 Oct 2024 12:39
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 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:49:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.713	168	240434	50.000	ug/l	#	0.00
34) 1,4-Difluorobenzene	8.615	114	437202	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.420	117	367609	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	154264	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.067	65	14625	4.940	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 9.880%#				
35) Dibromofluoromethane	7.640	113	13333	4.621	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 9.240%#				
50) Toluene-d8	10.109	98	51902	4.872	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 9.740%#				
62) 4-Bromofluorobenzene	12.407	95	16208	4.210	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 8.420%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.873	85	12181	5.442	ug/l		99
3) Chloromethane	2.074	50	19992	6.863	ug/l		93
4) Vinyl Chloride	2.214	62	20836	6.500	ug/l		97
5) Bromomethane	2.604	94	15177	7.480	ug/l		88
6) Chloroethane	2.750	64	13521	6.278	ug/l		90
7) Trichlorofluoromethane	3.074	101	24633	5.164	ug/l		88
8) Diethyl Ether	3.464	74	6284	4.335	ug/l		68
9) 1,1,2-Trichlorotrifluo...	3.830	101	14348	5.171	ug/l		90
10) Methyl Iodide	4.012	142	11993	4.274	ug/l	#	89
11) Tert butyl alcohol	4.860	59	6468	23.321	ug/l		100
12) 1,1-Dichloroethene	3.805	96	12850	4.982	ug/l		84
13) Acrolein	3.665	56	6134	28.198	ug/l		94
14) Allyl chloride	4.390	41	22973	4.936	ug/l	#	88
15) Acrylonitrile	5.067	53	14108	21.276	ug/l		98
16) Acetone	3.872	43	16105	20.898	ug/l	#	79
17) Carbon Disulfide	4.116	76	43042	6.226	ug/l	#	93
18) Methyl Acetate	4.403	43	7550	4.548	ug/l	#	65
19) Methyl tert-butyl Ether	5.122	73	29558	3.989	ug/l		100
20) Methylene Chloride	4.622	84	19392	6.235	ug/l	#	73
21) trans-1,2-Dichloroethene	5.128	96	14695	5.235	ug/l		88
22) Diisopropyl ether	6.030	45	43856	4.326	ug/l	#	82
23) Vinyl Acetate	5.963	43	118065	20.316	ug/l	#	88
24) 1,1-Dichloroethane	5.927	63	27775	4.929	ug/l		94
25) 2-Butanone	6.902	43	22431	21.745	ug/l	#	84
26) 2,2-Dichloropropane	6.890	77	25086	4.999	ug/l		89
27) cis-1,2-Dichloroethene	6.890	96	15543	4.480	ug/l		72
28) Bromochloromethane	7.256	49	13763	5.549	ug/l	#	67
29) Tetrahydrofuran	7.274	42	12280	20.849	ug/l	#	83
30) Chloroform	7.433	83	27437	4.776	ug/l		88
31) Cyclohexane	7.707	56	30882	6.243	ug/l	#	88
32) 1,1,1-Trichloroethane	7.628	97	23695	4.707	ug/l	#	90
36) 1,1-Dichloropropene	7.835	75	21067	5.069	ug/l		93
37) Ethyl Acetate	6.994	43	10158m	4.687	ug/l		
38) Carbon Tetrachloride	7.823	117	20423	4.583	ug/l		94
39) Methylcyclohexane	9.115	83	26360	5.033	ug/l		89
40) Benzene	8.085	78	61822	4.915	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020075.D
Acq On : 30 Oct 2024 12:39
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: Oct 30 13:49:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.225	41	3462	2.951 ug/l	#	72
42) 1,2-Dichloroethane	8.158	62	16581	4.588 ug/l		93
43) Isopropyl Acetate	8.201	43	17066	3.861 ug/l	#	92
44) Trichloroethene	8.871	130	14352	4.711 ug/l		94
45) 1,2-Dichloropropane	9.140	63	14120	4.485 ug/l		95
46) Dibromomethane	9.231	93	7547	4.387 ug/l	#	87
47) Bromodichloromethane	9.426	83	20060	4.393 ug/l		99
48) Methyl methacrylate	9.225	41	7028	3.615 ug/l	#	82
49) 1,4-Dioxane	9.231	88	1521	79.001 ug/l	#	81
51) 4-Methyl-2-Pentanone	9.999	43	41560	18.434 ug/l		87
52) Toluene	10.170	92	35127	4.474 ug/l		99
53) t-1,3-Dichloropropene	10.395	75	16130	3.926 ug/l		95
54) cis-1,3-Dichloropropene	9.859	75	19506	4.024 ug/l		97
55) 1,1,2-Trichloroethane	10.572	97	8995	3.969 ug/l	#	85
56) Ethyl methacrylate	10.438	69	10951	3.367 ug/l	#	65
57) 1,3-Dichloropropane	10.719	76	16743	4.207 ug/l		95
58) 2-Chloroethyl Vinyl ether	9.713	63	28850	19.057 ug/l		92
59) 2-Hexanone	10.761	43	28622	17.775 ug/l		81
60) Dibromochloromethane	10.914	129	11181	3.844 ug/l		100
61) 1,2-Dibromoethane	11.017	107	8865	4.329 ug/l		90
64) Tetrachloroethene	10.645	164	11989	4.585 ug/l		93
65) Chlorobenzene	11.444	112	37629	4.475 ug/l		94
66) 1,1,1,2-Tetrachloroethane	11.517	131	11467	4.031 ug/l		98
67) Ethyl Benzene	11.517	91	69338	4.540 ug/l		98
68) m/p-Xylenes	11.627	106	50332	8.923 ug/l		94
69) o-Xylene	11.956	106	23982	4.425 ug/l		95
70) Styrene	11.968	104	36193	3.958 ug/l		93
71) Bromoform	12.133	173	5561	3.652 ug/l	#	94
73) Isopropylbenzene	12.255	105	62710	4.833 ug/l		96
74) N-amyl acetate	12.072	43	12879	3.747 ug/l	#	88
75) 1,1,2,2-Tetrachloroethane	12.505	83	11048	4.792 ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	5970m	1.976 ug/l		
77) Bromobenzene	12.529	156	12802	4.649 ug/l		83
78) n-propylbenzene	12.596	91	77176	4.922 ug/l		96
79) 2-Chlorotoluene	12.682	91	43013	4.785 ug/l		93
80) 1,3,5-Trimethylbenzene	12.736	105	49377	4.712 ug/l		95
81) trans-1,4-Dichloro-2-b...	12.304	75	3212	4.290 ug/l		87
82) 4-Chlorotoluene	12.779	91	42786	4.655 ug/l		96
83) tert-Butylbenzene	12.999	119	43602	4.645 ug/l		93
84) 1,2,4-Trimethylbenzene	13.041	105	47241	4.547 ug/l		97
85) sec-Butylbenzene	13.175	105	65986	4.705 ug/l		95
86) p-Isopropyltoluene	13.291	119	50842	4.464 ug/l		96
87) 1,3-Dichlorobenzene	13.285	146	25594	4.603 ug/l		96
88) 1,4-Dichlorobenzene	13.364	146	25923	4.745 ug/l		92
89) n-Butylbenzene	13.620	91	51089	4.594 ug/l		95
90) Hexachloroethane	13.883	117	10314	4.651 ug/l		83
91) 1,2-Dichlorobenzene	13.657	146	21464	4.393 ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	1656	4.500 ug/l		69
93) 1,2,4-Trichlorobenzene	14.919	180	10063	3.673 ug/l		96
94) Hexachlorobutadiene	15.023	225	6221	4.084 ug/l		93
95) Naphthalene	15.145	128	17217	3.332 ug/l		99
96) 1,2,3-Trichlorobenzene	15.327	180	8911	3.848 ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020075.D
Acq On : 30 Oct 2024 12:39
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 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:49:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration

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

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

ICAL Form

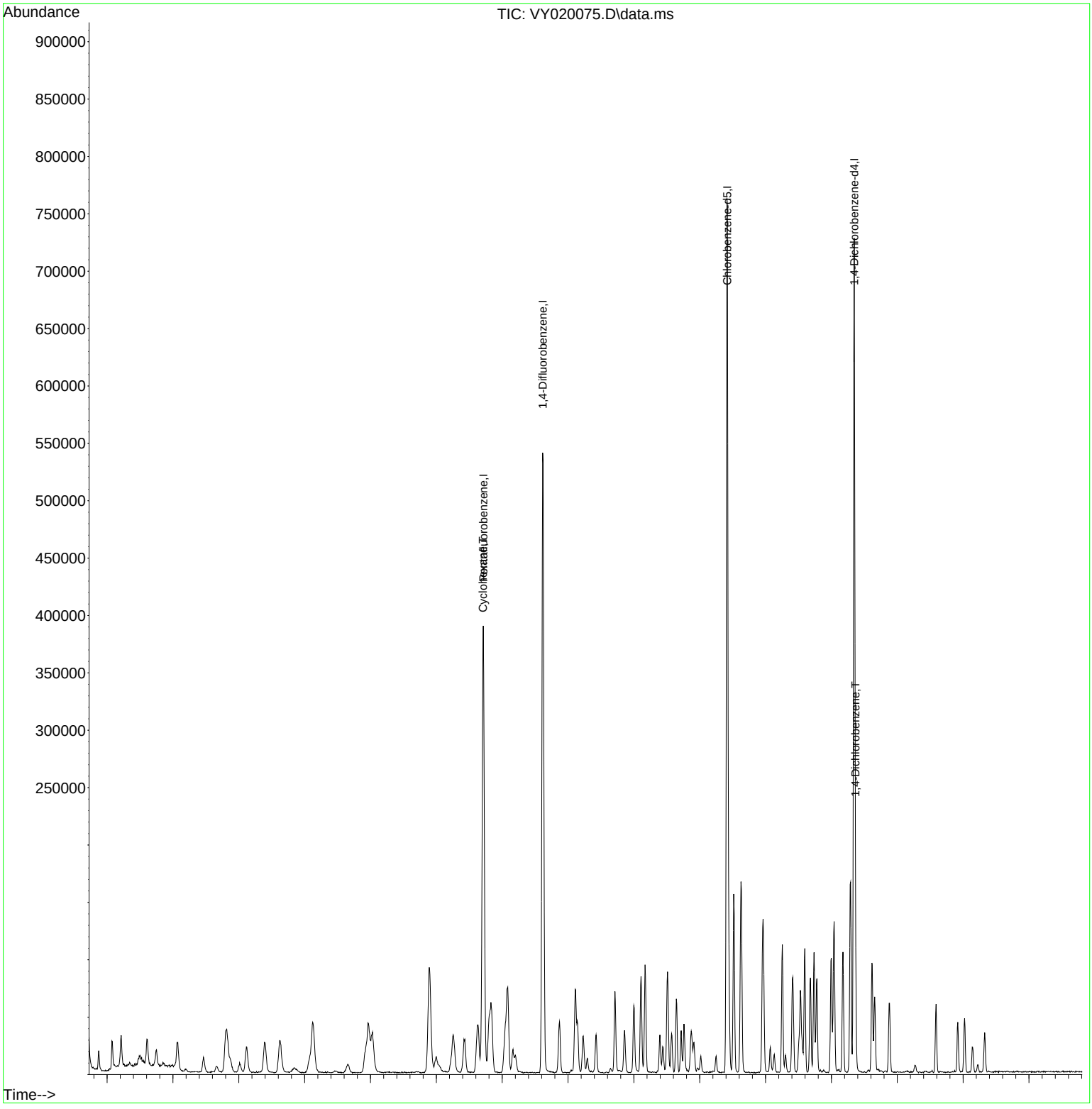
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020075.D
Acq On : 30 Oct 2024 12:39
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 30 13:49:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020076.D
Acq On : 30 Oct 2024 13:02
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 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:53:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	251996	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	459666	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	392589	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	179302	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	33105	10.669	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 21.340%#			
35) Dibromofluoromethane	7.640	113	29145	9.608	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 19.220%#			
50) Toluene-d8	10.109	98	114968	10.264	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 20.520%#			
62) 4-Bromofluorobenzene	12.408	95	36997	9.141	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 18.280%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	24596	10.485	ug/l	95
3) Chloromethane	2.074	50	42089	13.785	ug/l	100
4) Vinyl Chloride	2.214	62	44064	13.115	ug/l	91
5) Bromomethane	2.605	94	28921	13.599	ug/l	96
6) Chloroethane	2.745	64	27962	12.388	ug/l	96
7) Trichlorofluoromethane	3.068	101	51307	10.263	ug/l	99
8) Diethyl Ether	3.470	74	14130	9.300	ug/l	69
9) 1,1,2-Trichlorotrifluo...	3.824	101	29440	10.124	ug/l	91
10) Methyl Iodide	4.013	142	27256	9.267	ug/l	91
11) Tert butyl alcohol	4.860	59	14113	48.551	ug/l #	96
12) 1,1-Dichloroethene	3.799	96	29134	10.777	ug/l #	71
13) Acrolein	3.659	56	15099	66.225	ug/l	98
14) Allyl chloride	4.397	41	47964	9.833	ug/l #	86
15) Acrylonitrile	5.061	53	32586	46.888	ug/l	96
16) Acetone	3.873	43	34866	43.166	ug/l #	85
17) Carbon Disulfide	4.116	76	92481	12.763	ug/l	98
18) Methyl Acetate	4.391	43	17993	10.341	ug/l #	88
19) Methyl tert-butyl Ether	5.122	73	67742	8.722	ug/l	99
20) Methylene Chloride	4.622	84	36061	11.062	ug/l #	71
21) trans-1,2-Dichloroethene	5.128	96	31130	10.580	ug/l	86
22) Diisopropyl ether	6.025	45	100421	9.452	ug/l #	87
23) Vinyl Acetate	5.970	43	280142	45.993	ug/l #	91
24) 1,1-Dichloroethane	5.921	63	60946	10.319	ug/l	97
25) 2-Butanone	6.903	43	49695	45.965	ug/l #	83
26) 2,2-Dichloropropane	6.896	77	48779	9.274	ug/l	94
27) cis-1,2-Dichloroethene	6.896	96	35967	9.892	ug/l	84
28) Bromochloromethane	7.250	49	28309	10.890	ug/l #	69
29) Tetrahydrofuran	7.268	42	28574	46.288	ug/l #	83
30) Chloroform	7.427	83	58988	9.798	ug/l	91
31) Cyclohexane	7.707	56	60768	11.721	ug/l	93
32) 1,1,1-Trichloroethane	7.622	97	51697	9.798	ug/l #	93
36) 1,1-Dichloropropene	7.841	75	45929	10.510	ug/l	93
37) Ethyl Acetate	6.994	43	20808	9.132	ug/l #	76
38) Carbon Tetrachloride	7.823	117	45138	9.635	ug/l	98
39) Methylcyclohexane	9.109	83	55314	10.046	ug/l #	83
40) Benzene	8.085	78	129152	9.765	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020076.D
Acq On : 30 Oct 2024 13:02
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: Oct 30 13:53:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	10582	8.580	ug/l		88
42) 1,2-Dichloroethane	8.158	62	35990	9.472	ug/l		94
43) Isopropyl Acetate	8.201	43	40461	8.707	ug/l	#	74
44) Trichloroethene	8.866	130	30471	9.513	ug/l		88
45) 1,2-Dichloropropane	9.140	63	30442	9.196	ug/l		96
46) Dibromomethane	9.237	93	17004	9.402	ug/l	#	86
47) Bromodichloromethane	9.426	83	43762	9.116	ug/l		100
48) Methyl methacrylate	9.225	41	18005	8.808	ug/l	#	82
49) 1,4-Dioxane	9.231	88	3385	167.225	ug/l	#	87
51) 4-Methyl-2-Pentanone	10.000	43	102653	43.307	ug/l		88
52) Toluene	10.170	92	78956	9.564	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	36749	8.508	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	44596	8.750	ug/l	#	83
55) 1,1,2-Trichloroethane	10.573	97	20698	8.686	ug/l	#	86
56) Ethyl methacrylate	10.438	69	27776	8.124	ug/l	#	72
57) 1,3-Dichloropropane	10.713	76	37808	9.035	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	71463	44.897	ug/l		89
59) 2-Hexanone	10.762	43	74139	43.792	ug/l		84
60) Dibromochloromethane	10.908	129	25833	8.447	ug/l		99
61) 1,2-Dibromoethane	11.012	107	19661	9.131	ug/l		96
64) Tetrachloroethene	10.646	164	24830	8.892	ug/l		94
65) Chlorobenzene	11.438	112	81961	9.128	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.518	131	26081	8.585	ug/l		98
67) Ethyl Benzene	11.518	91	151863	9.310	ug/l		98
68) m/p-Xylenes	11.627	106	108757	18.053	ug/l		88
69) o-Xylene	11.950	106	51950	8.975	ug/l		92
70) Styrene	11.969	104	84784	8.682	ug/l		95
71) Bromoform	12.133	173	12719	7.820	ug/l	#	96
73) Isopropylbenzene	12.255	105	137315	9.105	ug/l		98
74) N-amyl acetate	12.072	43	32525	8.142	ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	25336	9.454	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	20202m	5.751	ug/l		
77) Bromobenzene	12.530	156	27286	8.526	ug/l		78
78) n-propylbenzene	12.591	91	173883	9.542	ug/l		95
79) 2-Chlorotoluene	12.676	91	97009	9.285	ug/l		94
80) 1,3,5-Trimethylbenzene	12.737	105	108479	8.906	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.304	75	7513	8.634	ug/l	#	81
82) 4-Chlorotoluene	12.773	91	96899	9.071	ug/l		97
83) tert-Butylbenzene	12.993	119	94080	8.622	ug/l		92
84) 1,2,4-Trimethylbenzene	13.042	105	108470	8.983	ug/l		97
85) sec-Butylbenzene	13.176	105	149192	9.152	ug/l		97
86) p-Isopropyltoluene	13.292	119	116689	8.815	ug/l		95
87) 1,3-Dichlorobenzene	13.286	146	54535	8.438	ug/l		96
88) 1,4-Dichlorobenzene	13.365	146	57513	9.058	ug/l		93
89) n-Butylbenzene	13.615	91	115297	8.920	ug/l		98
90) Hexachloroethane	13.877	117	23812	9.238	ug/l		78
91) 1,2-Dichlorobenzene	13.657	146	49631	8.740	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	14.267	75	3723	8.705	ug/l		71
93) 1,2,4-Trichlorobenzene	14.919	180	25388	7.973	ug/l		94
94) Hexachlorobutadiene	15.023	225	13955	7.883	ug/l		96
95) Naphthalene	15.145	128	43361	7.220	ug/l		98
96) 1,2,3-Trichlorobenzene	15.328	180	21730	8.073	ug/l		97

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020076.D
Acq On : 30 Oct 2024 13:02
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 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:53:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration

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

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

ICAL Form

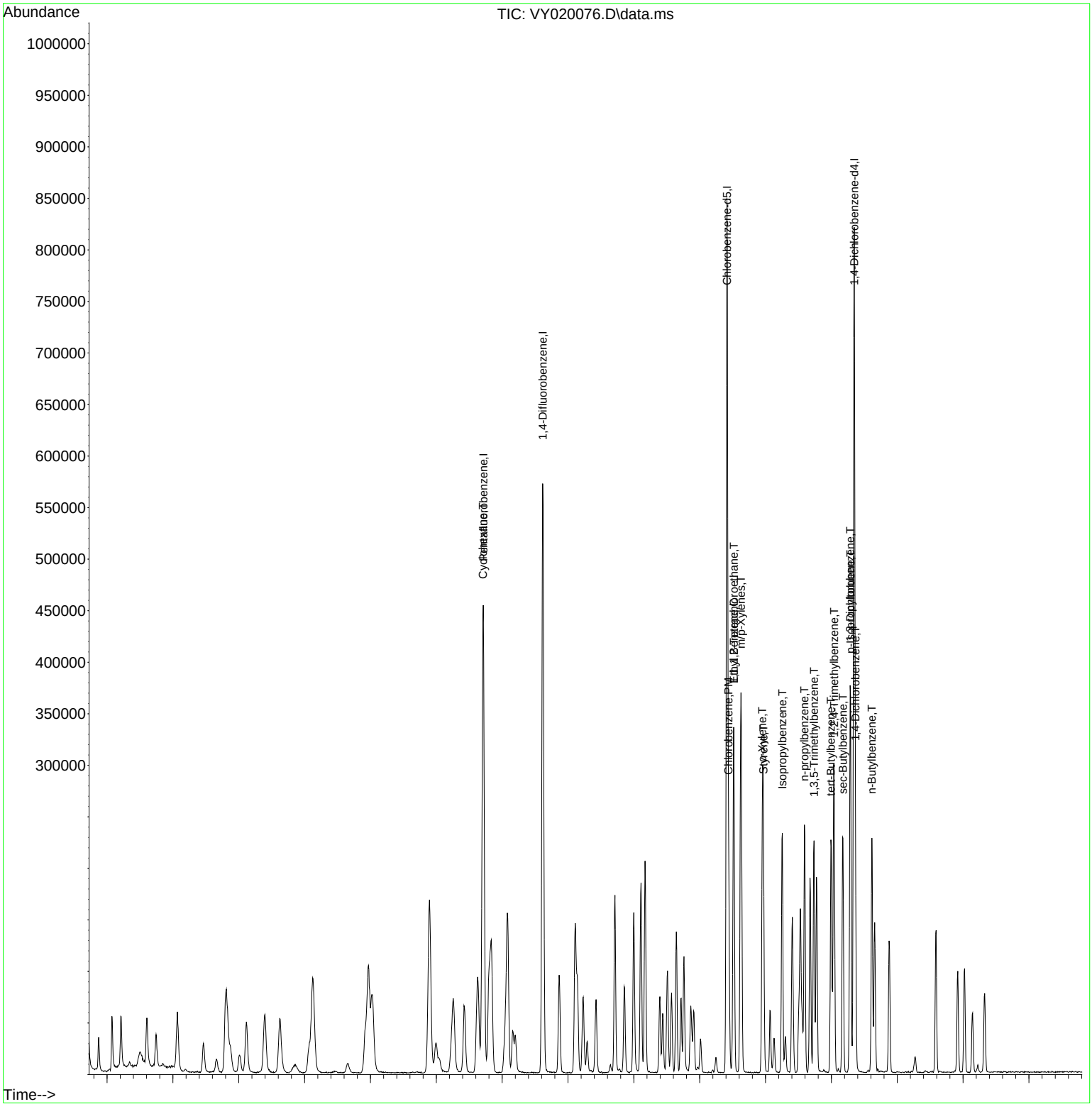
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020076.D
Acq On : 30 Oct 2024 13:02
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 30 13:53:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020077.D
Acq On : 30 Oct 2024 13:24
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 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:55:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	255489	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	453247	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	386871	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	180601	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	59114	18.791	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	37.580%#		
35) Dibromofluoromethane	7.634	113	54397	18.187	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	36.380%#		
50) Toluene-d8	10.103	98	215268	19.490	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	38.980%#		
62) 4-Bromofluorobenzene	12.402	95	68234	17.097	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	34.200%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	49268	20.715	ug/l	96
3) Chloromethane	2.068	50	80800	26.102	ug/l	97
4) Vinyl Chloride	2.202	62	85353	25.056	ug/l	97
5) Bromomethane	2.592	94	55648	25.809	ug/l	93
6) Chloroethane	2.733	64	55759	24.366	ug/l	96
7) Trichlorofluoromethane	3.056	101	105973	20.907	ug/l	93
8) Diethyl Ether	3.452	74	29994	19.470	ug/l	70
9) 1,1,2-Trichlorotrifluo...	3.818	101	57985	19.667	ug/l	91
10) Methyl Iodide	4.007	142	56012	18.784	ug/l #	89
11) Tert butyl alcohol	4.854	59	23879	81.025	ug/l #	93
12) 1,1-Dichloroethene	3.787	96	54823	20.002	ug/l #	76
13) Acrolein	3.653	56	30037	129.943	ug/l	96
14) Allyl chloride	4.385	41	100122	20.246	ug/l #	90
15) Acrylonitrile	5.055	53	65802	93.388	ug/l	96
16) Acetone	3.873	43	70645	86.267	ug/l #	85
17) Carbon Disulfide	4.110	76	184555	25.121	ug/l	98
18) Methyl Acetate	4.385	43	35892	20.346	ug/l #	88
19) Methyl tert-butyl Ether	5.116	73	140655	17.862	ug/l	100
20) Methylene Chloride	4.616	84	65473	19.811	ug/l #	76
21) trans-1,2-Dichloroethene	5.116	96	62682	21.012	ug/l #	83
22) Diisopropyl ether	6.019	45	212810	19.756	ug/l #	90
23) Vinyl Acetate	5.964	43	587816	95.187	ug/l #	91
24) 1,1-Dichloroethane	5.921	63	121557	20.300	ug/l	95
25) 2-Butanone	6.897	43	97990	89.396	ug/l #	80
26) 2,2-Dichloropropane	6.884	77	97826	18.345	ug/l	95
27) cis-1,2-Dichloroethene	6.897	96	73022	19.808	ug/l	83
28) Bromochloromethane	7.244	49	53898	20.450	ug/l #	70
29) Tetrahydrofuran	7.262	42	58334	93.205	ug/l #	82
30) Chloroform	7.421	83	121164	19.850	ug/l	95
31) Cyclohexane	7.701	56	116249	22.116	ug/l	89
32) 1,1,1-Trichloroethane	7.622	97	103121	19.277	ug/l #	93
36) 1,1-Dichloropropene	7.835	75	89441	20.757	ug/l	93
37) Ethyl Acetate	6.982	43	43815	19.500	ug/l #	93
38) Carbon Tetrachloride	7.817	117	90537	19.600	ug/l	96
39) Methylcyclohexane	9.110	83	114400	21.071	ug/l	89
40) Benzene	8.079	78	263734	20.224	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020077.D
Acq On : 30 Oct 2024 13:24
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: Oct 30 13:55:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.214	41	23788	19.561 ug/l #	83
42) 1,2-Dichloroethane	8.159	62	72916	19.463 ug/l	94
43) Isopropyl Acetate	8.195	43	83718	18.270 ug/l #	75
44) Trichloroethene	8.866	130	60253	19.077 ug/l	81
45) 1,2-Dichloropropane	9.140	63	64640	19.804 ug/l	99
46) Dibromomethane	9.225	93	34353	19.263 ug/l	89
47) Bromodichloromethane	9.427	83	88375	18.670 ug/l	97
48) Methyl methacrylate	9.219	41	39516	19.605 ug/l #	80
49) 1,4-Dioxane	9.238	88	6584	329.869 ug/l #	69
51) 4-Methyl-2-Pentanone	10.000	43	216002	92.417 ug/l	88
52) Toluene	10.170	92	163230	20.053 ug/l	98
53) t-1,3-Dichloropropene	10.390	75	79101	18.573 ug/l	95
54) cis-1,3-Dichloropropene	9.853	75	93870	18.679 ug/l #	83
55) 1,1,2-Trichloroethane	10.567	97	42659	18.156 ug/l	96
56) Ethyl methacrylate	10.439	69	61125	18.131 ug/l #	75
57) 1,3-Dichloropropane	10.713	76	79426	19.250 ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	151093	96.270 ug/l	91
59) 2-Hexanone	10.762	43	152298	91.233 ug/l	84
60) Dibromochloromethane	10.908	129	54301	18.006 ug/l	100
61) 1,2-Dibromoethane	11.012	107	38956	18.348 ug/l	98
64) Tetrachloroethene	10.646	164	53279	19.362 ug/l	94
65) Chlorobenzene	11.438	112	169342	19.138 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.512	131	53419	17.843 ug/l	100
67) Ethyl Benzene	11.518	91	311877	19.403 ug/l	99
68) m/p-Xylenes	11.627	106	229769	38.705 ug/l	92
69) o-Xylene	11.951	106	106187	18.617 ug/l	91
70) Styrene	11.969	104	178553	18.555 ug/l	95
71) Bromoform	12.133	173	26700	16.660 ug/l #	99
73) Isopropylbenzene	12.255	105	288608	18.999 ug/l	99
74) N-amyl acetate	12.066	43	72538	18.029 ug/l #	88
75) 1,1,2,2-Tetrachloroethane	12.505	83	50452	18.691 ug/l	97
76) 1,2,3-Trichloropropane	12.554	75	34602m	9.780 ug/l	
77) Bromobenzene	12.530	156	58191	18.052 ug/l	81
78) n-propylbenzene	12.591	91	364746	19.871 ug/l	96
79) 2-Chlorotoluene	12.676	91	200389	19.043 ug/l	94
80) 1,3,5-Trimethylbenzene	12.737	105	236250	19.257 ug/l	96
81) trans-1,4-Dichloro-2-b...	12.304	75	15276	17.428 ug/l #	80
82) 4-Chlorotoluene	12.774	91	207370	19.273 ug/l	95
83) tert-Butylbenzene	12.993	119	202147	18.393 ug/l	92
84) 1,2,4-Trimethylbenzene	13.042	105	231420	19.026 ug/l	97
85) sec-Butylbenzene	13.176	105	314228	19.136 ug/l	97
86) p-Isopropyltoluene	13.292	119	254400	19.079 ug/l	95
87) 1,3-Dichlorobenzene	13.286	146	121383	18.646 ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	119390	18.668 ug/l	96
89) n-Butylbenzene	13.615	91	255253	19.605 ug/l	97
90) Hexachloroethane	13.877	117	49426	19.037 ug/l	85
91) 1,2-Dichlorobenzene	13.658	146	105505	18.445 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	7666	17.796 ug/l	68
93) 1,2,4-Trichlorobenzene	14.919	180	56651	17.663 ug/l	96
94) Hexachlorobutadiene	15.017	225	30501	17.105 ug/l	95
95) Naphthalene	15.145	128	102556	16.953 ug/l	98
96) 1,2,3-Trichlorobenzene	15.328	180	47182	17.402 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020077.D
Acq On : 30 Oct 2024 13:24
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 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:55:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration

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

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

ICAL Form

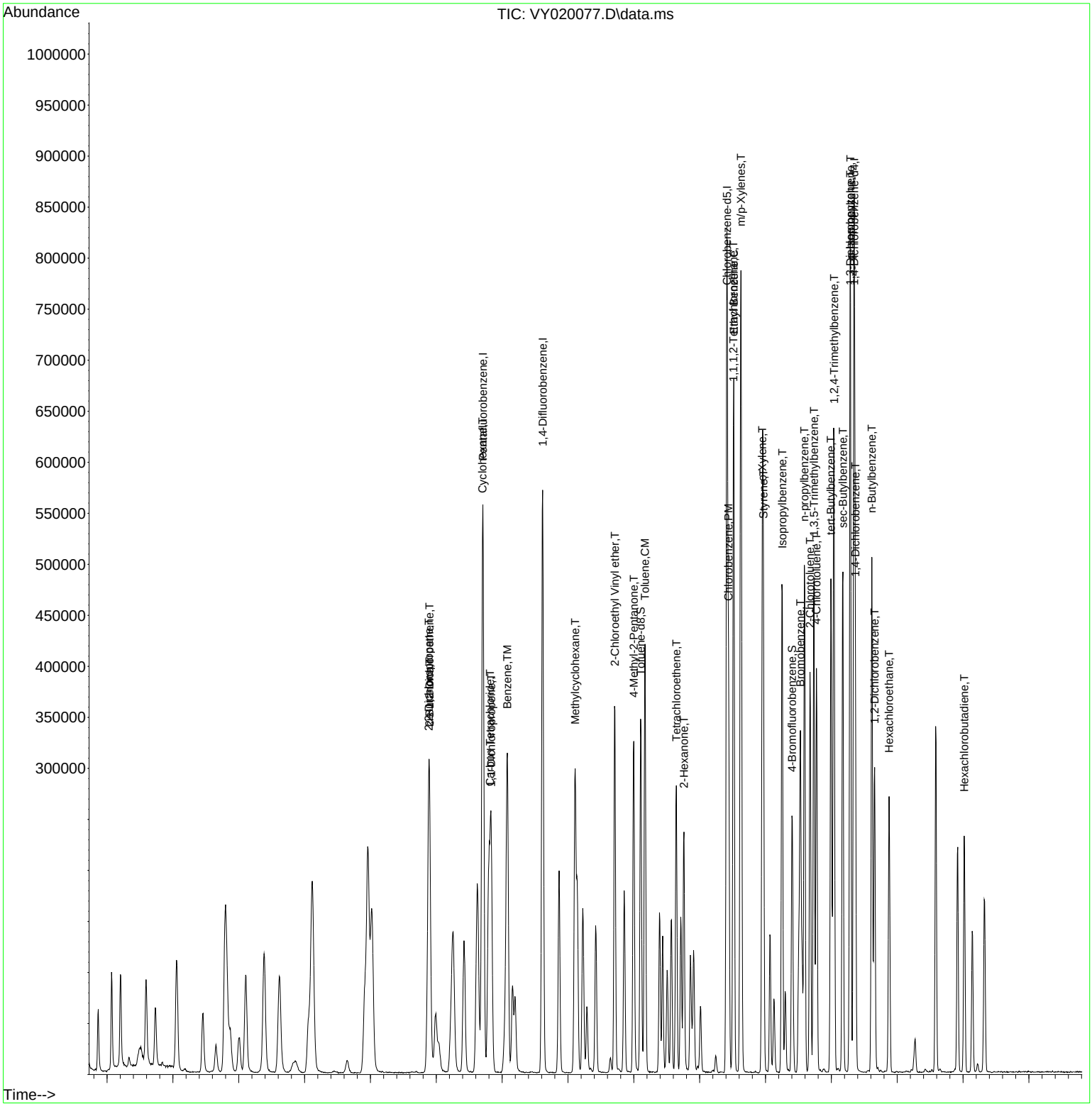
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020077.D
Acq On : 30 Oct 2024 13:24
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 30 13:55:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020078.D
Acq On : 30 Oct 2024 14:06
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 14:58:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	253095	50.000	ug/l	#	0.00
34) 1,4-Difluorobenzene	8.616	114	448895	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	390884	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	187639	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	148301	48.236	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.480%				
35) Dibromofluoromethane	7.634	113	137099	49.764	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.520%				
50) Toluene-d8	10.103	98	549379	50.479	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.960%				
62) 4-Bromofluorobenzene	12.402	95	179271	51.568	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 103.140%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	96546	41.057	ug/l		98
3) Chloromethane	2.074	50	172932	43.513	ug/l		98
4) Vinyl Chloride	2.208	62	190844	45.286	ug/l		98
5) Bromomethane	2.598	94	121526	43.068	ug/l		99
6) Chloroethane	2.739	64	122992	45.232	ug/l		96
7) Trichlorofluoromethane	3.062	101	234671	46.283	ug/l		95
8) Diethyl Ether	3.458	74	63745	46.337	ug/l		76
9) 1,1,2-Trichlorotrifluo...	3.818	101	128941	45.130	ug/l		89
10) Methyl Iodide	4.007	142	130739	49.097	ug/l	#	88
11) Tert butyl alcohol	4.866	59	41694	173.877	ug/l	#	88
12) 1,1-Dichloroethene	3.793	96	124769	46.031	ug/l	#	80
13) Acrolein	3.653	56	62974	226.723	ug/l		98
14) Allyl chloride	4.385	41	231702	48.153	ug/l	#	90
15) Acrylonitrile	5.061	53	147956	237.463	ug/l		98
16) Acetone	3.873	43	176737	253.817	ug/l	#	84
17) Carbon Disulfide	4.110	76	423667	47.120	ug/l		99
18) Methyl Acetate	4.391	43	80236	47.343	ug/l	#	87
19) Methyl tert-butyl Ether	5.122	73	314058	47.812	ug/l		98
20) Methylene Chloride	4.616	84	140465	40.843	ug/l	#	81
21) trans-1,2-Dichloroethene	5.110	96	142767	46.884	ug/l		88
22) Diisopropyl ether	6.019	45	479235	48.598	ug/l	#	89
23) Vinyl Acetate	5.964	43	1333996	245.247	ug/l	#	90
24) 1,1-Dichloroethane	5.915	63	270841	46.285	ug/l		96
25) 2-Butanone	6.896	43	226732	237.393	ug/l	#	81
26) 2,2-Dichloropropane	6.884	77	223018	45.779	ug/l		95
27) cis-1,2-Dichloroethene	6.890	96	163527	47.495	ug/l		83
28) Bromochloromethane	7.244	49	127689	46.584	ug/l	#	72
29) Tetrahydrofuran	7.262	42	131553	239.719	ug/l	#	82
30) Chloroform	7.421	83	270424	46.805	ug/l		99
31) Cyclohexane	7.701	56	249456	42.730	ug/l		89
32) 1,1,1-Trichloroethane	7.622	97	240527	47.868	ug/l		95
36) 1,1-Dichloropropene	7.835	75	201893	46.739	ug/l		93
37) Ethyl Acetate	6.988	43	94588	46.256	ug/l	#	94
38) Carbon Tetrachloride	7.817	117	207365	48.133	ug/l		100
39) Methylcyclohexane	9.110	83	259600	47.915	ug/l	#	87
40) Benzene	8.079	78	594896	47.340	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020078.D
Acq On : 30 Oct 2024 14:06
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 14:58:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	53405m	38.864	ug/l		
42) 1,2-Dichloroethane	8.158	62	163735	47.442	ug/l		93
43) Isopropyl Acetate	8.195	43	185022	48.366	ug/l	#	78
44) Trichloroethene	8.866	130	137913	47.292	ug/l		86
45) 1,2-Dichloropropane	9.140	63	143501	48.060	ug/l		98
46) Dibromomethane	9.231	93	76956	47.720	ug/l	#	88
47) Bromodichloromethane	9.420	83	202425	48.145	ug/l	#	98
48) Methyl methacrylate	9.219	41	88629	51.150	ug/l	#	81
49) 1,4-Dioxane	9.225	88	15719	979.894	ug/l	#	88
51) 4-Methyl-2-Pentanone	10.000	43	491343	251.440	ug/l		87
52) Toluene	10.170	92	373718	49.042	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	180112	49.960	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	217155	50.058	ug/l	#	82
55) 1,1,2-Trichloroethane	10.573	97	96748	48.888	ug/l		94
56) Ethyl methacrylate	10.439	69	141354	52.279	ug/l	#	73
57) 1,3-Dichloropropane	10.713	76	176327	48.342	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	359790	260.896	ug/l		91
59) 2-Hexanone	10.762	43	353785	255.117	ug/l		85
60) Dibromochloromethane	10.908	129	122325	49.155	ug/l		100
61) 1,2-Dibromoethane	11.012	107	87760	47.280	ug/l		100
64) Tetrachloroethene	10.646	164	120168	47.512	ug/l		94
65) Chlorobenzene	11.438	112	388015	47.788	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.518	131	124101	48.591	ug/l		99
67) Ethyl Benzene	11.518	91	733155	48.646	ug/l		99
68) m/p-Xylenes	11.627	106	540779	98.423	ug/l		91
69) o-Xylene	11.950	106	253611	48.985	ug/l		91
70) Styrene	11.969	104	427323	50.713	ug/l		95
71) Bromoform	12.133	173	64353	50.623	ug/l	#	97
73) Isopropylbenzene	12.255	105	691368	47.317	ug/l		97
74) N-amyl acetate	12.072	43	172232	50.105	ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	117149	45.482	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	80285m	25.625	ug/l		
77) Bromobenzene	12.530	156	139237	47.289	ug/l		82
78) n-propylbenzene	12.591	91	859635	47.031	ug/l		96
79) 2-Chlorotoluene	12.676	91	472269	46.677	ug/l		94
80) 1,3,5-Trimethylbenzene	12.737	105	557869	47.687	ug/l		95
81) trans-1,4-Dichloro-2-b...	12.298	75	36981	47.705	ug/l	#	84
82) 4-Chlorotoluene	12.780	91	488931	47.584	ug/l		94
83) tert-Butylbenzene	12.993	119	499937	48.831	ug/l		95
84) 1,2,4-Trimethylbenzene	13.042	105	552088	48.105	ug/l		96
85) sec-Butylbenzene	13.176	105	751015	47.676	ug/l		97
86) p-Isopropyltoluene	13.292	119	606962	48.620	ug/l		95
87) 1,3-Dichlorobenzene	13.286	146	283109	47.380	ug/l		97
88) 1,4-Dichlorobenzene	13.365	146	278979	46.291	ug/l		96
89) n-Butylbenzene	13.615	91	611011	48.906	ug/l		98
90) Hexachloroethane	13.877	117	117887	47.505	ug/l		83
91) 1,2-Dichlorobenzene	13.657	146	245799	47.241	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	17194	44.817	ug/l		75
93) 1,2,4-Trichlorobenzene	14.919	180	130061	48.854	ug/l		98
94) Hexachlorobutadiene	15.023	225	72977	48.508	ug/l		98
95) Naphthalene	15.145	128	248616	52.269	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	107931	47.697	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020078.D
Acq On : 30 Oct 2024 14:06
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 14:58:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration

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

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

ICAL Form

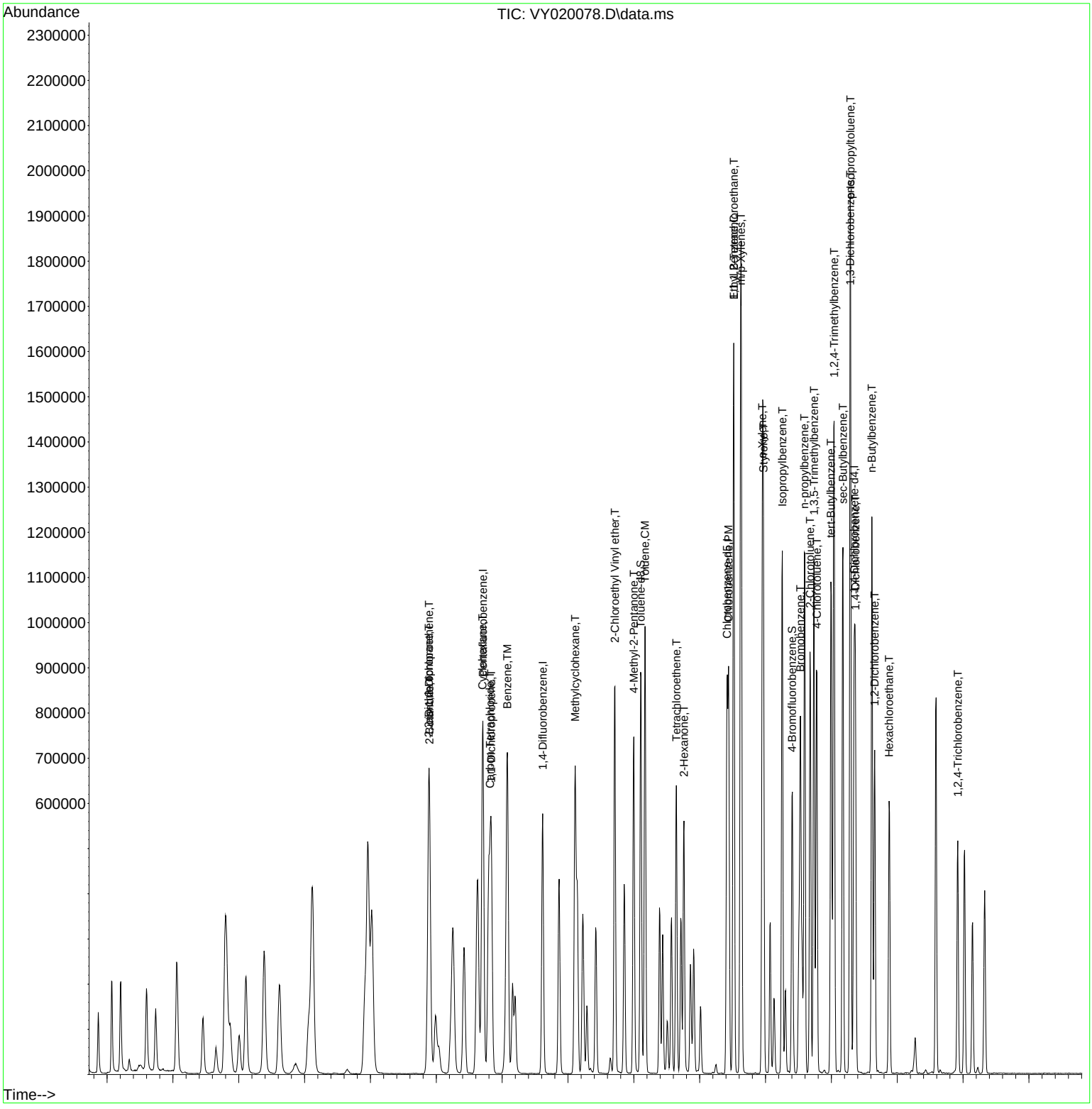
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020078.D
Acq On : 30 Oct 2024 14:06
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 30 14:58:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020079.D
Acq On : 30 Oct 2024 14:29
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 15:03:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	250425	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	439442	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	392085	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	191175	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	334356	109.911	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 219.820%#			
35) Dibromofluoromethane	7.634	113	299098	110.903	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 221.800%#			
50) Toluene-d8	10.103	98	1212617	113.817	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 227.640%#			
62) 4-Bromofluorobenzene	12.402	95	407188	119.648	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 239.300%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	228307	98.125	ug/l	98
3) Chloromethane	2.068	50	366223	93.131	ug/l	97
4) Vinyl Chloride	2.202	62	405238	97.185	ug/l	97
5) Bromomethane	2.592	94	260872	93.438	ug/l	98
6) Chloroethane	2.733	64	263815	98.055	ug/l	98
7) Trichlorofluoromethane	3.056	101	506774	101.014	ug/l	96
8) Diethyl Ether	3.452	74	148665	109.219	ug/l	74
9) 1,1,2-Trichlorotrifluo...	3.812	101	281087	99.430	ug/l	91
10) Methyl Iodide	4.007	142	289107	109.727	ug/l	90
11) Tert butyl alcohol	4.860	59	102524	432.114	ug/l #	81
12) 1,1-Dichloroethene	3.793	96	272143	101.471	ug/l #	80
13) Acrolein	3.653	56	149511	544.019	ug/l	98
14) Allyl chloride	4.385	41	506132	106.308	ug/l #	89
15) Acrylonitrile	5.061	53	348902	565.943	ug/l	98
16) Acetone	3.866	43	414042	600.958	ug/l #	85
17) Carbon Disulfide	4.104	76	917608	103.144	ug/l	99
18) Methyl Acetate	4.385	43	181329	108.133	ug/l #	86
19) Methyl tert-butyl Ether	5.116	73	742574	114.253	ug/l	98
20) Methylene Chloride	4.616	84	299130	87.904	ug/l #	81
21) trans-1,2-Dichloroethene	5.116	96	308673	102.448	ug/l	86
22) Diisopropyl ether	6.019	45	1086016	111.305	ug/l #	91
23) Vinyl Acetate	5.958	43	3189495	592.620	ug/l #	90
24) 1,1-Dichloroethane	5.915	63	598212	103.320	ug/l	96
25) 2-Butanone	6.890	43	549299	581.259	ug/l #	84
26) 2,2-Dichloropropane	6.884	77	493900	102.464	ug/l	95
27) cis-1,2-Dichloroethene	6.890	96	370675	108.807	ug/l	84
28) Bromochloromethane	7.244	49	277089	102.166	ug/l #	72
29) Tetrahydrofuran	7.262	42	320026	589.375	ug/l #	82
30) Chloroform	7.421	83	599049	104.788	ug/l	99
31) Cyclohexane	7.701	56	547474	94.777	ug/l	89
32) 1,1,1-Trichloroethane	7.616	97	521551	104.903	ug/l	94
36) 1,1-Dichloropropene	7.835	75	449890	106.392	ug/l	94
37) Ethyl Acetate	6.988	43	223721	111.760	ug/l #	94
38) Carbon Tetrachloride	7.817	117	456363	108.209	ug/l	99
39) Methylcyclohexane	9.109	83	584361	110.176	ug/l #	87
40) Benzene	8.079	78	1321405	107.416	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020079.D
Acq On : 30 Oct 2024 14:29
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: Oct 30 15:03:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	116421	86.544	ug/l		87
42) 1,2-Dichloroethane	8.158	62	373520	110.555	ug/l		93
43) Isopropyl Acetate	8.195	43	447889	119.599	ug/l	#	78
44) Trichloroethene	8.866	130	305872	107.143	ug/l		88
45) 1,2-Dichloropropane	9.140	63	318959	109.122	ug/l		97
46) Dibromomethane	9.231	93	175876	111.406	ug/l		88
47) Bromodichloromethane	9.420	83	461878	112.218	ug/l	#	98
48) Methyl methacrylate	9.219	41	214211	126.286	ug/l	#	80
49) 1,4-Dioxane	9.231	88	39210	2496.859	ug/l	#	83
51) 4-Methyl-2-Pentanone	9.993	43	1181631	617.696	ug/l		90
52) Toluene	10.170	92	837777	112.304	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	427557	121.149	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	503580	118.582	ug/l	#	86
55) 1,1,2-Trichloroethane	10.573	97	225678	116.492	ug/l		95
56) Ethyl methacrylate	10.438	69	347881	131.431	ug/l	#	75
57) 1,3-Dichloropropane	10.713	76	407824	114.214	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	816231	604.610	ug/l		92
59) 2-Hexanone	10.755	43	870879	641.505	ug/l		87
60) Dibromochloromethane	10.908	129	291690	119.734	ug/l		100
61) 1,2-Dibromoethane	11.012	107	204752	112.681	ug/l		99
64) Tetrachloroethene	10.646	164	269475	106.219	ug/l		95
65) Chlorobenzene	11.438	112	873808	107.289	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.511	131	286476	111.823	ug/l		100
67) Ethyl Benzene	11.518	91	1657653	109.651	ug/l		100
68) m/p-Xylenes	11.627	106	1221696	221.671	ug/l		91
69) o-Xylene	11.950	106	584516	112.554	ug/l		92
70) Styrene	11.969	104	987405	116.822	ug/l		95
71) Bromoform	12.127	173	158309	124.151	ug/l	#	96
73) Isopropylbenzene	12.255	105	1567277	105.280	ug/l		98
74) N-amyl acetate	12.066	43	441898	126.177	ug/l	#	86
75) 1,1,2,2-Tetrachloroethane	12.505	83	277920	105.904	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	182495m	57.170	ug/l		
77) Bromobenzene	12.530	156	322208	107.408	ug/l		84
78) n-propylbenzene	12.591	91	1942949	104.334	ug/l		97
79) 2-Chlorotoluene	12.676	91	1075903	104.371	ug/l		94
80) 1,3,5-Trimethylbenzene	12.731	105	1265627	106.185	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.304	75	91153	115.411	ug/l	#	85
82) 4-Chlorotoluene	12.773	91	1110438	106.072	ug/l		94
83) tert-Butylbenzene	12.993	119	1104057	105.843	ug/l		93
84) 1,2,4-Trimethylbenzene	13.042	105	1276373	109.156	ug/l		96
85) sec-Butylbenzene	13.176	105	1697744	105.784	ug/l		98
86) p-Isopropyltoluene	13.292	119	1382922	108.729	ug/l		95
87) 1,3-Dichlorobenzene	13.285	146	651160	106.960	ug/l		97
88) 1,4-Dichlorobenzene	13.365	146	637014	103.744	ug/l		96
89) n-Butylbenzene	13.615	91	1400648	110.036	ug/l		98
90) Hexachloroethane	13.877	117	272543	107.795	ug/l		84
91) 1,2-Dichlorobenzene	13.657	146	566909	106.942	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	43753	111.936	ug/l		76
93) 1,2,4-Trichlorobenzene	14.919	180	330713	121.925	ug/l		98
94) Hexachlorobutadiene	15.023	225	173634	113.279	ug/l		99
95) Naphthalene	15.139	128	672775	138.827	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	281747	122.206	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020079.D
Acq On : 30 Oct 2024 14:29
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 15:03:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration

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

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

ICAL Form

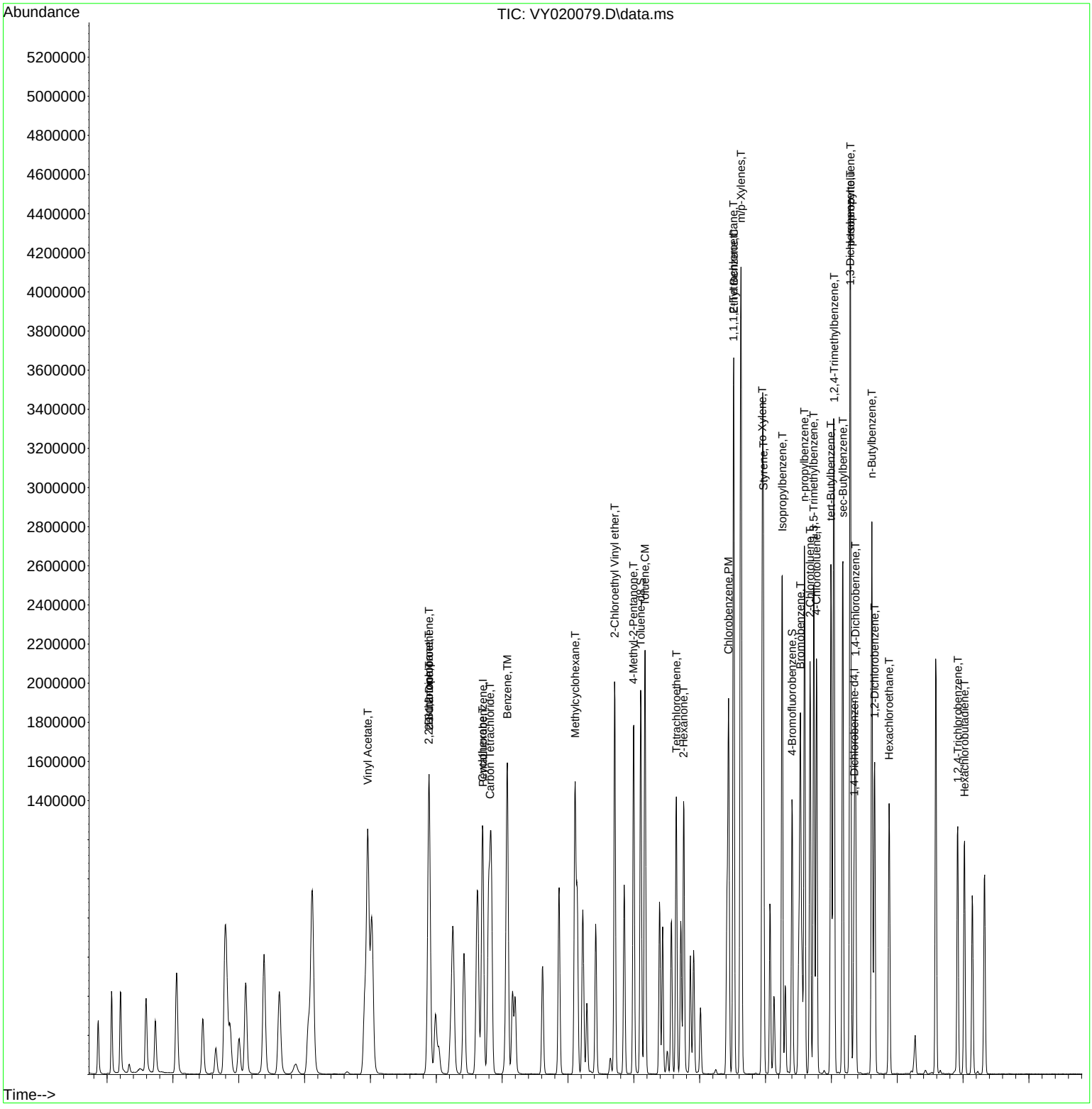
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020079.D
Acq On : 30 Oct 2024 14:29
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 15:03:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020080.D
Acq On : 30 Oct 2024 14:52
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 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 15:05:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	264324	50.000	ug/l	#	0.00
34) 1,4-Difluorobenzene	8.616	114	464829	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	410851	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	189466	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	513131	159.809	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 319.620%#				
35) Dibromofluoromethane	7.634	113	473607	166.018	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 332.040%#				
50) Toluene-d8	10.103	98	1901637	168.741	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 337.480%#				
62) 4-Bromofluorobenzene	12.402	95	632951	175.829	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 351.660%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	367153	149.502	ug/l		98
3) Chloromethane	2.068	50	577439	139.123	ug/l		99
4) Vinyl Chloride	2.202	62	633528	143.945	ug/l		98
5) Bromomethane	2.586	94	418638	142.061	ug/l		99
6) Chloroethane	2.732	64	405582	142.820	ug/l		98
7) Trichlorofluoromethane	3.056	101	804100	151.851	ug/l		96
8) Diethyl Ether	3.452	74	236804	164.824	ug/l		77
9) 1,1,2-Trichlorotrifluo...	3.818	101	447736	150.052	ug/l		91
10) Methyl Iodide	4.001	142	464092	166.878	ug/l	#	90
11) Tert butyl alcohol	4.866	59	154213	615.794	ug/l	#	82
12) 1,1-Dichloroethene	3.787	96	437783	154.648	ug/l	#	77
13) Acrolein	3.653	56	222317	766.398	ug/l		99
14) Allyl chloride	4.385	41	815140	162.209	ug/l	#	90
15) Acrylonitrile	5.055	53	532102	817.722	ug/l		99
16) Acetone	3.866	43	615168	845.930	ug/l	#	85
17) Carbon Disulfide	4.104	76	1456308	155.090	ug/l		100
18) Methyl Acetate	4.385	43	270939	153.074	ug/l	#	88
19) Methyl tert-butyl Ether	5.116	73	1166714	170.073	ug/l		96
20) Methylene Chloride	4.610	84	473057	131.706	ug/l	#	81
21) trans-1,2-Dichloroethene	5.110	96	498356	156.706	ug/l	#	83
22) Diisopropyl ether	6.019	45	1712860	166.319	ug/l		91
23) Vinyl Acetate	5.958	43	4953304	871.948	ug/l	#	91
24) 1,1-Dichloroethane	5.915	63	951564	155.708	ug/l		96
25) 2-Butanone	6.890	43	817694	819.771	ug/l	#	84
26) 2,2-Dichloropropane	6.884	77	795976	156.450	ug/l		96
27) cis-1,2-Dichloroethene	6.890	96	583766	162.347	ug/l		83
28) Bromochloromethane	7.244	49	449704	157.093	ug/l	#	73
29) Tetrahydrofuran	7.262	42	474645	828.165	ug/l	#	82
30) Chloroform	7.421	83	953842	158.077	ug/l		100
31) Cyclohexane	7.701	56	862973	141.540	ug/l		86
32) 1,1,1-Trichloroethane	7.616	97	847338	161.468	ug/l		96
36) 1,1-Dichloropropene	7.835	75	711249	159.013	ug/l		94
37) Ethyl Acetate	6.982	43	333510	157.506	ug/l	#	94
38) Carbon Tetrachloride	7.817	117	731039	163.871	ug/l		99
39) Methylcyclohexane	9.109	83	921465	164.246	ug/l	#	88
40) Benzene	8.079	78	2088865	160.528	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020080.D
Acq On : 30 Oct 2024 14:52
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 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 15:05:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.220	41	176781	124.237 ug/l		88
42) 1,2-Dichloroethane	8.158	62	582749	163.063 ug/l		94
43) Isopropyl Acetate	8.195	43	679605	171.562 ug/l	#	78
44) Trichloroethene	8.866	130	482450	159.766 ug/l		88
45) 1,2-Dichloropropane	9.140	63	508168	164.358 ug/l		96
46) Dibromomethane	9.231	93	273750	163.933 ug/l		89
47) Bromodichloromethane	9.420	83	727941	167.201 ug/l		98
48) Methyl methacrylate	9.219	41	328446	183.056 ug/l	#	81
49) 1,4-Dioxane	9.225	88	58592	3527.312 ug/l	#	91
51) 4-Methyl-2-Pentanone	9.999	43	1759800	869.690 ug/l		90
52) Toluene	10.170	92	1328982	168.421 ug/l		99
53) t-1,3-Dichloropropene	10.390	75	678432	181.736 ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	798700	177.804 ug/l	#	85
55) 1,1,2-Trichloroethane	10.573	97	345498	168.601 ug/l		96
56) Ethyl methacrylate	10.438	69	541087	193.260 ug/l	#	75
57) 1,3-Dichloropropane	10.713	76	626765	165.943 ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	1258516	881.311 ug/l		92
59) 2-Hexanone	10.755	43	1268082	883.076 ug/l		88
60) Dibromochloromethane	10.908	129	455170	176.635 ug/l		100
61) 1,2-Dibromoethane	11.012	107	317856	165.371 ug/l		99
64) Tetrachloroethene	10.646	164	422849	159.062 ug/l		92
65) Chlorobenzene	11.438	112	1384830	162.267 ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.511	131	456266	169.965 ug/l		99
67) Ethyl Benzene	11.518	91	2617908	165.261 ug/l		98
68) m/p-Xylenes	11.627	106	1926635	333.611 ug/l		91
69) o-Xylene	11.950	106	917838	168.666 ug/l		91
70) Styrene	11.969	104	1569103	177.165 ug/l		96
71) Bromoform	12.127	173	240850	180.255 ug/l	#	97
73) Isopropylbenzene	12.249	105	2439942	165.379 ug/l		98
74) N-amyl acetate	12.066	43	665656	191.782 ug/l	#	86
75) 1,1,2,2-Tetrachloroethane	12.505	83	408694	157.141 ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	271515m	85.825 ug/l		
77) Bromobenzene	12.530	156	492090	165.517 ug/l		82
78) n-propylbenzene	12.591	91	2991377	162.082 ug/l		97
79) 2-Chlorotoluene	12.676	91	1681376	164.578 ug/l		93
80) 1,3,5-Trimethylbenzene	12.731	105	1967127	166.529 ug/l		96
81) trans-1,4-Dichloro-2-b...	12.298	75	137971	176.265 ug/l	#	87
82) 4-Chlorotoluene	12.773	91	1719250	165.709 ug/l		94
83) tert-Butylbenzene	12.993	119	1718909	166.274 ug/l		93
84) 1,2,4-Trimethylbenzene	13.042	105	1981367	170.976 ug/l		96
85) sec-Butylbenzene	13.170	105	2613388	164.305 ug/l		97
86) p-Isopropyltoluene	13.285	119	2161709	171.493 ug/l		95
87) 1,3-Dichlorobenzene	13.285	146	1008488	167.149 ug/l		97
88) 1,4-Dichlorobenzene	13.365	146	975162	160.247 ug/l		96
89) n-Butylbenzene	13.615	91	2158102	171.071 ug/l		98
90) Hexachloroethane	13.877	117	421230	168.105 ug/l		85
91) 1,2-Dichlorobenzene	13.657	146	869621	165.525 ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	63821	164.750 ug/l		76
93) 1,2,4-Trichlorobenzene	14.919	180	508720	189.243 ug/l		97
94) Hexachlorobutadiene	15.023	225	259405	170.763 ug/l		98
95) Naphthalene	15.139	128	1003119	208.860 ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	428513	187.541 ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020080.D
Acq On : 30 Oct 2024 14:52
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 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 15:05:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration

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

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

ICAL Form

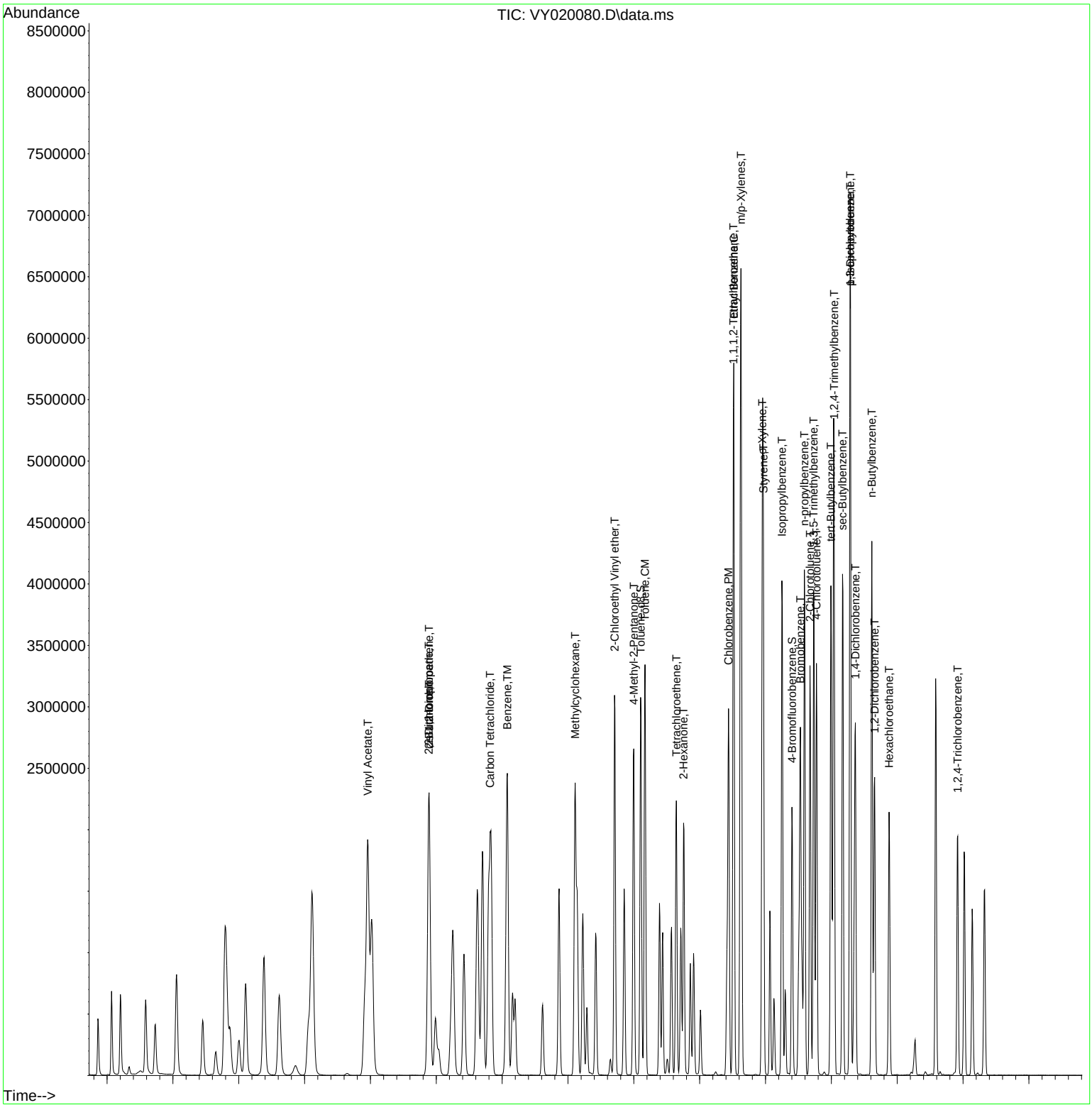
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020080.D
Acq On : 30 Oct 2024 14:52
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 30 15:05:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020082.D
Acq On : 30 Oct 2024 15:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY103024

Quant Time: Oct 31 15:29:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	473201	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	859474	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	749198	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	323321	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	310615	52.594	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.180%			
35) Dibromofluoromethane	7.634	113	274061	50.153	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.300%			
50) Toluene-d8	10.103	98	1103339	50.725	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.460%			
62) 4-Bromofluorobenzene	12.402	95	351612	49.768	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 99.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	120512	27.512	ug/l	98
3) Chloromethane	2.068	50	210255	28.978	ug/l	100
4) Vinyl Chloride	2.202	62	232365	29.832	ug/l	98
5) Bromomethane	2.598	94	148623	28.740	ug/l	100
6) Chloroethane	2.739	64	145709	28.986	ug/l	99
7) Trichlorofluoromethane	3.062	101	288596	30.329	ug/l	97
8) Diethyl Ether	3.458	74	76537	28.839	ug/l	75
9) 1,1,2-Trichlorotrifluo...	3.818	101	161253	30.214	ug/l	90
10) Methyl Iodide	4.007	142	148079	28.738	ug/l #	89
11) Tert butyl alcohol	4.866	59	50077	117.881	ug/l #	83
12) 1,1-Dichloroethene	3.793	96	155938	30.538	ug/l #	83
13) Acrolein	3.653	56	65380	123.633	ug/l	99
14) Allyl chloride	4.385	41	281369	30.540	ug/l #	91
15) Acrylonitrile	5.055	53	169656	140.436	ug/l	97
16) Acetone	3.866	43	202777	147.642	ug/l #	87
17) Carbon Disulfide	4.110	76	511874	30.122	ug/l	99
18) Methyl Acetate	4.391	43	89321	27.718	ug/l #	87
19) Methyl tert-butyl Ether	5.116	73	373674	29.087	ug/l	96
20) Methylene Chloride	4.616	84	162543	26.345	ug/l #	79
21) trans-1,2-Dichloroethene	5.116	96	172847	30.014	ug/l	87
22) Diisopropyl ether	6.019	45	567160	29.665	ug/l	89
23) Vinyl Acetate	5.964	43	1600445	148.749	ug/l #	90
24) 1,1-Dichloroethane	5.921	63	328973	29.716	ug/l	95
25) 2-Butanone	6.890	43	260961	140.170	ug/l #	84
26) 2,2-Dichloropropane	6.884	77	277277	30.103	ug/l	96
27) cis-1,2-Dichloroethene	6.890	96	196528	29.687	ug/l	83
28) Bromochloromethane	7.244	49	137380	26.502	ug/l #	71
29) Tetrahydrofuran	7.262	42	150159	139.758	ug/l #	81
30) Chloroform	7.421	83	321845	29.297	ug/l	100
31) Cyclohexane	7.701	56	319127	29.776	ug/l	89
32) 1,1,1-Trichloroethane	7.616	97	290109	30.248	ug/l	94
36) 1,1-Dichloropropene	7.835	75	252441	29.905	ug/l	94
37) Ethyl Acetate	6.982	43	108369	26.927	ug/l	95
38) Carbon Tetrachloride	7.817	117	255169	30.060	ug/l	99
39) Methylcyclohexane	9.109	83	325568	30.388	ug/l #	89
40) Benzene	8.079	78	717780	29.132	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020082.D
Acq On : 30 Oct 2024 15:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY103024

Quant Time: Oct 31 15:29:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	63419	31.457	ug/l	#	79
42) 1,2-Dichloroethane	8.158	62	191476	28.075	ug/l		93
43) Isopropyl Acetate	8.195	43	215480	27.843	ug/l	#	78
44) Trichloroethene	8.866	130	162773	28.504	ug/l		85
45) 1,2-Dichloropropane	9.140	63	168774	28.630	ug/l		97
46) Dibromomethane	9.231	93	89880	28.139	ug/l		88
47) Bromodichloromethane	9.420	83	240667	28.761	ug/l	#	98
48) Methyl methacrylate	9.219	41	102609	28.624	ug/l	#	80
49) 1,4-Dioxane	9.225	88	17875	543.556	ug/l	#	89
51) 4-Methyl-2-Pentanone	10.000	43	560878	140.651	ug/l		89
52) Toluene	10.170	92	456965	30.087	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	214547	29.035	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	257134	29.155	ug/l	#	85
55) 1,1,2-Trichloroethane	10.573	97	114405	28.807	ug/l		98
56) Ethyl methacrylate	10.438	69	166233	29.180	ug/l	#	73
57) 1,3-Dichloropropane	10.713	76	205867	28.306	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	376129	133.877	ug/l		92
59) 2-Hexanone	10.762	43	408349	142.834	ug/l		87
60) Dibromochloromethane	10.908	129	145391	28.720	ug/l		99
61) 1,2-Dibromoethane	11.012	107	101472	27.501	ug/l		99
64) Tetrachloroethene	10.646	164	144117	29.134	ug/l		94
65) Chlorobenzene	11.438	112	466643	29.232	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	147606	28.941	ug/l		99
67) Ethyl Benzene	11.518	91	892211	29.899	ug/l		98
68) m/p-Xylenes	11.627	106	660200	60.470	ug/l		91
69) o-Xylene	11.950	106	310053	29.996	ug/l		92
70) Styrene	11.969	104	523115	30.608	ug/l		95
71) Bromoform	12.133	173	77218	29.512	ug/l	#	94
73) Isopropylbenzene	12.255	105	846459	32.772	ug/l		98
74) N-amyl acetate	12.072	43	205663	31.854	ug/l	#	86
75) 1,1,2,2-Tetrachloroethane	12.505	83	134581	29.793	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	92645m	30.568	ug/l		
77) Bromobenzene	12.530	156	162960	31.197	ug/l		82
78) n-propylbenzene	12.591	91	1066407	33.175	ug/l		97
79) 2-Chlorotoluene	12.676	91	579585	32.482	ug/l		94
80) 1,3,5-Trimethylbenzene	12.737	105	686904	33.126	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.304	75	43078	30.573	ug/l	#	84
82) 4-Chlorotoluene	12.773	91	594632	32.684	ug/l		94
83) tert-Butylbenzene	12.993	119	615613	33.952	ug/l		94
84) 1,2,4-Trimethylbenzene	13.042	105	674768	32.854	ug/l		97
85) sec-Butylbenzene	13.176	105	941389	33.819	ug/l		97
86) p-Isopropyltoluene	13.292	119	756263	33.856	ug/l		96
87) 1,3-Dichlorobenzene	13.286	146	340750	32.111	ug/l		96
88) 1,4-Dichlorobenzene	13.365	146	336322	31.826	ug/l		96
89) n-Butylbenzene	13.615	91	776354	34.671	ug/l		97
90) Hexachloroethane	13.877	117	145909	33.029	ug/l		83
91) 1,2-Dichlorobenzene	13.657	146	294420	31.920	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	14.273	75	20485	29.903	ug/l		72
93) 1,2,4-Trichlorobenzene	14.919	180	163820	33.062	ug/l		98
94) Hexachlorobutadiene	15.023	225	91247	33.677	ug/l		97
95) Naphthalene	15.145	128	301585	32.560	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	136291	32.403	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020082.D
Acq On : 30 Oct 2024 15:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY103024

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 31 15:29:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

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

ICAL Form

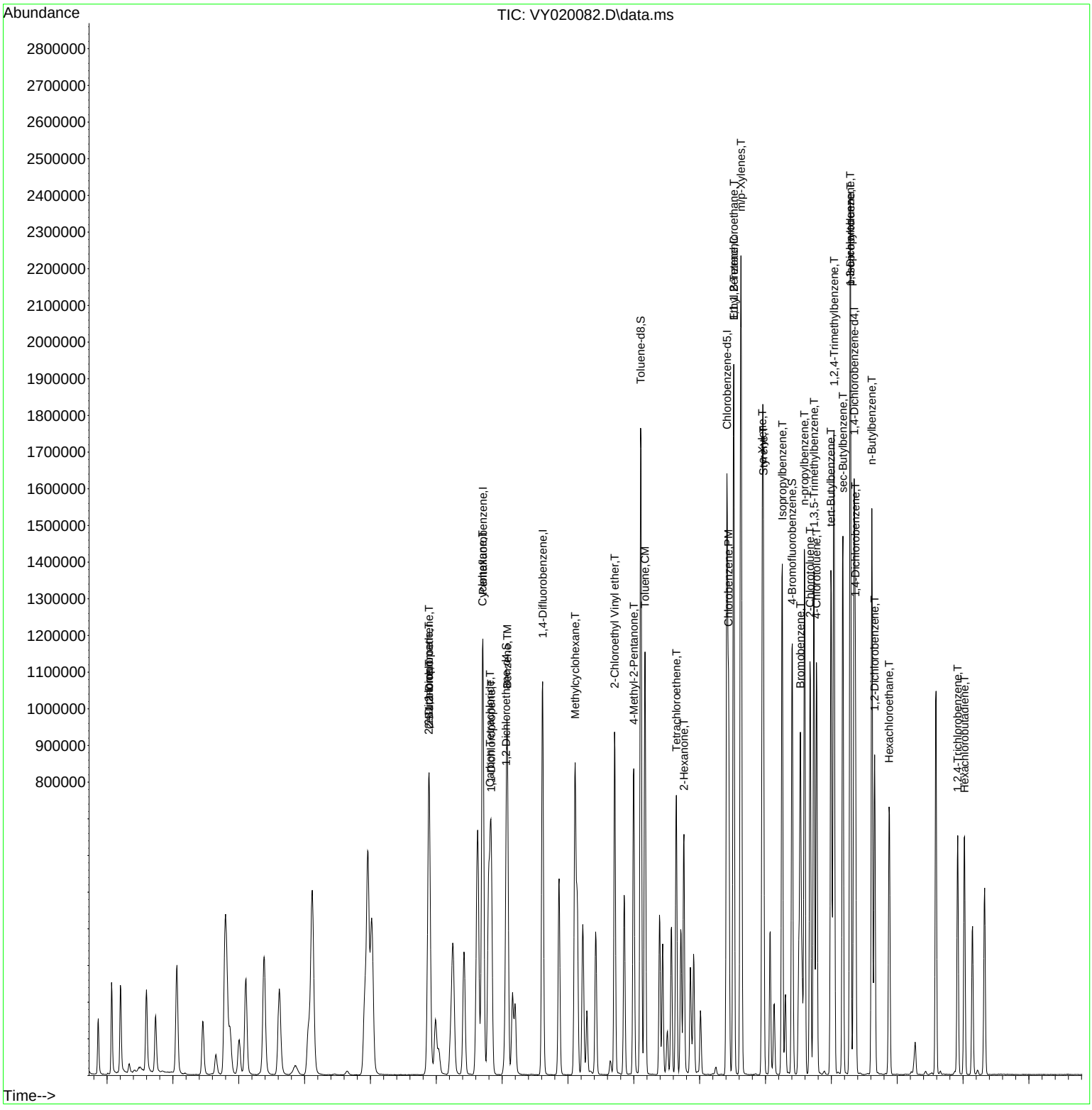
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020082.D
Acq On : 30 Oct 2024 15:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 31 15:29:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY103024

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020082.D
Acq On : 30 Oct 2024 15:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY103024

Quant Time: Oct 31 15:29:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	187#	0.00
2	T	Dichlorodifluoromethane	0.463	0.255	44.9#	125	0.00
3	P	Chloromethane	0.767	0.444	42.1#	122	0.00
4	C	Vinyl Chloride	0.823	0.491	40.3#	122	0.00
5	T	Bromomethane	0.546	0.314	42.5#	122	0.00
6	T	Chloroethane	0.531	0.308	42.0#	118	0.00
7	T	Trichlorofluoromethane	1.005	0.610	39.3#	123	0.00
8	T	Diethyl Ether	0.280	0.162	42.1#	120	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.564	0.341	39.5#	125	0.00
10	T	Methyl Iodide	0.544	0.313	42.5#	113	0.00
11	T	Tert butyl alcohol	0.045	0.021	53.3#	120	0.00
12	CM	1,1-Dichloroethene	0.540	0.330	38.9#	125	0.00
13	T	Acrolein	0.056	0.028	50.0#	104	0.00
14	T	Allyl chloride	0.973	0.595	38.8#	121	0.00
15	T	Acrylonitrile	0.128	0.072	43.8#	115	0.00
16	T	Acetone	0.145	0.086	40.7#	115	0.00
17	T	Carbon Disulfide	1.796	1.082	39.8#	121	0.00
18	T	Methyl Acetate	0.340	0.189	44.4#	111	0.00
19	T	Methyl tert-butyl Ether	1.357	0.790	41.8#	119	0.00
20	T	Methylene Chloride	0.652	0.343	47.4#	116	0.00
21	T	trans-1,2-Dichloroethene	0.609	0.365	40.1#	121	0.00
22	T	Diisopropyl ether	2.020	1.199	40.6#	118	0.00
23	T	Vinyl Acetate	1.137	0.676	40.5#	120	0.00
24	P	1,1-Dichloroethane	1.170	0.695	40.6#	121	0.00
25	T	2-Butanone	0.197	0.110	44.2#	115	0.00
26	T	2,2-Dichloropropane	0.973	0.586	39.8#	124	0.00
27	T	cis-1,2-Dichloroethene	0.700	0.415	40.7#	120	0.00
28	T	Bromochloromethane	0.548	0.290	47.1#	108	0.00
29	T	Tetrahydrofuran	0.114	0.063	44.7#	114	0.00
30	C	Chloroform	1.161	0.680	41.4#	119	0.00
31	T	Cyclohexane	1.132	0.674	40.5#	128	0.00
32	T	1,1,1-Trichloroethane	1.013	0.613	39.5#	121	0.00
33	S	1,2-Dichloroethane-d4	0.624	0.656	-5.1	209#	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	191#	0.00
35	S	Dibromofluoromethane	0.318	0.319	-0.3	200#	0.00
36	T	1,1-Dichloropropene	0.491	0.294	40.1#	125	0.00
37	T	Ethyl Acetate	0.234	0.126	46.2#	115	0.00
38	T	Carbon Tetrachloride	0.494	0.297	39.9#	123	0.00
39	T	Methylcyclohexane	0.623	0.379	39.2#	125	0.00
40	TM	Benzene	1.433	0.835	41.7#	121	0.00
41	T	Methacrylonitrile	0.117	0.074	36.8#	119	0.00
42	TM	1,2-Dichloroethane	0.397	0.223	43.8#	117	0.00
43	T	Isopropyl Acetate	0.450	0.251	44.2#	116	0.00
44	TM	Trichloroethene	0.332	0.189	43.1#	118	0.00
45	C	1,2-Dichloropropane	0.343	0.196	42.9#	118	0.00
46	T	Dibromomethane	0.186	0.105	43.5#	117	0.00
47	T	Bromodichloromethane	0.487	0.280	42.5#	119	0.00
48	T	Methyl methacrylate	0.209	0.119	43.1#	116	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020082.D
Acq On : 30 Oct 2024 15:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY103024

Quant Time: Oct 31 15:29:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.001	50.0#	114	0.00
50	S	Toluene-d8	1.265	1.284	-1.5	201#	0.00
51	T	4-Methyl-2-Pentanone	0.232	0.131	43.5#	114	0.00
52	CM	Toluene	0.884	0.532	39.8#	122	0.00
53	T	t-1,3-Dichloropropene	0.430	0.250	41.9#	119	0.00
54	T	cis-1,3-Dichloropropene	0.513	0.299	41.7#	118	0.00
55	T	1,1,2-Trichloroethane	0.231	0.133	42.4#	118	0.00
56	T	Ethyl methacrylate	0.331	0.193	41.7#	118	0.00
57	T	1,3-Dichloropropane	0.423	0.240	43.3#	117	0.00
58	T	2-Chloroethyl Vinyl ether	0.163	0.088	46.0#	105	0.00
59	T	2-Hexanone	0.166	0.095	42.8#	115	0.00
60	T	Dibromochloromethane	0.295	0.169	42.7#	119	0.00
61	T	1,2-Dibromoethane	0.215	0.118	45.1#	116	0.00
62	S	4-Bromofluorobenzene	0.411	0.409	0.5	196#	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	192#	0.00
64	T	Tetrachloroethene	0.330	0.192	41.8#	120	0.00
65	PM	Chlorobenzene	1.065	0.623	41.5#	120	0.00
66	T	1,1,1,2-Tetrachloroethane	0.340	0.197	42.1#	119	0.00
67	C	Ethyl Benzene	1.992	1.191	40.2#	122	0.00
68	T	m/p-Xylenes	0.729	0.441	39.5#	122	0.00
69	T	o-Xylene	0.690	0.414	40.0#	122	0.00
70	T	Styrene	1.141	0.698	38.8#	122	0.00
71	P	Bromoform	0.175	0.103	41.1#	120	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	172#	0.00
73	T	Isopropylbenzene	3.994	2.618	34.5#	122	0.00
74	T	N-amyl acetate	0.998	0.636	36.3#	119	0.00
75	P	1,1,2,2-Tetrachloroethane	0.699	0.416	40.5#	115	0.00
76	T	1,2,3-Trichloropropane	0.469	0.287	38.8#	115	0.00
77	T	Bromobenzene	0.808	0.504	37.6#	117	0.00
78	T	n-propylbenzene	4.971	3.298	33.7#	124	0.00
79	T	2-Chlorotoluene	2.759	1.793	35.0#	123	0.00
80	T	1,3,5-Trimethylbenzene	3.207	2.125	33.7#	123	0.00
81	T	trans-1,4-Dichloro-2-butene	0.218	0.133	39.0#	116	0.00
82	T	4-Chlorotoluene	2.813	1.839	34.6#	122	0.00
83	T	tert-Butylbenzene	2.804	1.904	32.1#	123	0.00
84	T	1,2,4-Trimethylbenzene	3.176	2.087	34.3#	122	0.00
85	T	sec-Butylbenzene	4.305	2.912	32.4#	125	0.00
86	T	p-Isopropyltoluene	3.454	2.339	32.3#	125	0.00
87	T	1,3-Dichlorobenzene	1.641	1.054	35.8#	120	0.00
88	T	1,4-Dichlorobenzene	1.634	1.040	36.4#	121	0.00
89	T	n-Butylbenzene	3.463	2.401	30.7#	127	0.00
90	T	Hexachloroethane	0.683	0.451	34.0#	124	0.00
91	T	1,2-Dichlorobenzene	1.426	0.911	36.1#	120	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.106	0.063	40.6#	119	0.00
93	T	1,2,4-Trichlorobenzene	0.766	0.507	33.8#	126	0.00
94	T	Hexachlorobutadiene	0.419	0.282	32.7#	125	0.00
95	T	Naphthalene	1.432	0.933	34.8#	121	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020082.D
Acq On : 30 Oct 2024 15:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY103024

Quant Time: Oct 31 15:29:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.650	0.422	35.1#	126	0.00

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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020082.D
Acq On : 30 Oct 2024 15:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY103024

Quant Time: Oct 31 15:29:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	187	0.00
2	T	Dichlorodifluoromethane	50.000	27.512	45.0#	125	0.00
3	P	Chloromethane	50.000	28.978	42.0#	122	0.00
4	C	Vinyl Chloride	50.000	29.832	40.3#	122	0.00
5	T	Bromomethane	50.000	28.740	42.5#	122	0.00
6	T	Chloroethane	50.000	28.986	42.0#	118	0.00
7	T	Trichlorofluoromethane	50.000	30.329	39.3#	123	0.00
8	T	Diethyl Ether	50.000	28.839	42.3#	120	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	30.214	39.6#	125	0.00
10	T	Methyl Iodide	50.000	28.738	42.5#	113	0.00
11	T	Tert butyl alcohol	250.000	117.881	52.8#	120	0.00
12	CM	1,1-Dichloroethene	50.000	30.538	38.9#	125	0.00
13	T	Acrolein	250.000	123.633	50.5#	104	0.00
14	T	Allyl chloride	50.000	30.540	38.9#	121	0.00
15	T	Acrylonitrile	250.000	140.436	43.8#	115	0.00
16	T	Acetone	250.000	147.642	40.9#	115	0.00
17	T	Carbon Disulfide	50.000	30.122	39.8#	121	0.00
18	T	Methyl Acetate	50.000	27.718	44.6#	111	0.00
19	T	Methyl tert-butyl Ether	50.000	29.087	41.8#	119	0.00
20	T	Methylene Chloride	50.000	26.345	47.3#	116	0.00
21	T	trans-1,2-Dichloroethene	50.000	30.014	40.0#	121	0.00
22	T	Diisopropyl ether	50.000	29.665	40.7#	118	0.00
23	T	Vinyl Acetate	250.000	148.749	40.5#	120	0.00
24	P	1,1-Dichloroethane	50.000	29.716	40.6#	121	0.00
25	T	2-Butanone	250.000	140.170	43.9#	115	0.00
26	T	2,2-Dichloropropane	50.000	30.103	39.8#	124	0.00
27	T	cis-1,2-Dichloroethene	50.000	29.687	40.6#	120	0.00
28	T	Bromochloromethane	50.000	26.502	47.0#	108	0.00
29	T	Tetrahydrofuran	250.000	139.758	44.1#	114	0.00
30	C	Chloroform	50.000	29.297	41.4#	119	0.00
31	T	Cyclohexane	50.000	29.776	40.4#	128	0.00
32	T	1,1,1-Trichloroethane	50.000	30.248	39.5#	121	0.00
33	S	1,2-Dichloroethane-d4	50.000	52.594	-5.2	209	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	191	0.00
35	S	Dibromofluoromethane	50.000	50.153	-0.3	200	0.00
36	T	1,1-Dichloropropene	50.000	29.905	40.2#	125	0.00
37	T	Ethyl Acetate	50.000	26.927	46.1#	115	0.00
38	T	Carbon Tetrachloride	50.000	30.060	39.9#	123	0.00
39	T	Methylcyclohexane	50.000	30.388	39.2#	125	0.00
40	TM	Benzene	50.000	29.132	41.7#	121	0.00
41	T	Methacrylonitrile	50.000	31.457	37.1#	119	0.00
42	TM	1,2-Dichloroethane	50.000	28.075	43.9#	117	0.00
43	T	Isopropyl Acetate	50.000	27.843	44.3#	116	0.00
44	TM	Trichloroethene	50.000	28.504	43.0#	118	0.00
45	C	1,2-Dichloropropane	50.000	28.630	42.7#	118	0.00
46	T	Dibromomethane	50.000	28.139	43.7#	117	0.00
47	T	Bromodichloromethane	50.000	28.761	42.5#	119	0.00
48	T	Methyl methacrylate	50.000	28.624	42.8#	116	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020082.D
Acq On : 30 Oct 2024 15:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY103024

Quant Time: Oct 31 15:29:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	543.556	45.6#	114	0.00
50	S	Toluene-d8	50.000	50.725	-1.5	201	0.00
51	T	4-Methyl-2-Pentanone	250.000	140.651	43.7#	114	0.00
52	CM	Toluene	50.000	30.087	39.8#	122	0.00
53	T	t-1,3-Dichloropropene	50.000	29.035	41.9#	119	0.00
54	T	cis-1,3-Dichloropropene	50.000	29.155	41.7#	118	0.00
55	T	1,1,2-Trichloroethane	50.000	28.807	42.4#	118	0.00
56	T	Ethyl methacrylate	50.000	29.180	41.6#	118	0.00
57	T	1,3-Dichloropropane	50.000	28.306	43.4#	117	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	133.877	46.4#	105	0.00
59	T	2-Hexanone	250.000	142.834	42.9#	115	0.00
60	T	Dibromochloromethane	50.000	28.720	42.6#	119	0.00
61	T	1,2-Dibromoethane	50.000	27.501	45.0#	116	0.00
62	S	4-Bromofluorobenzene	50.000	49.768	0.5	196	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	192	0.00
64	T	Tetrachloroethene	50.000	29.134	41.7#	120	0.00
65	PM	Chlorobenzene	50.000	29.232	41.5#	120	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	28.941	42.1#	119	0.00
67	C	Ethyl Benzene	50.000	29.899	40.2#	122	0.00
68	T	m/p-Xylenes	100.000	60.470	39.5#	122	0.00
69	T	o-Xylene	50.000	29.996	40.0#	122	0.00
70	T	Styrene	50.000	30.608	38.8#	122	0.00
71	P	Bromoform	50.000	29.512	41.0#	120	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	172	0.00
73	T	Isopropylbenzene	50.000	32.772	34.5#	122	0.00
74	T	N-amyl acetate	50.000	31.854	36.3#	119	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	29.793	40.4#	115	0.00
76	T	1,2,3-Trichloropropane	50.000	30.568	38.9#	115	0.00
77	T	Bromobenzene	50.000	31.197	37.6#	117	0.00
78	T	n-propylbenzene	50.000	33.175	33.7#	124	0.00
79	T	2-Chlorotoluene	50.000	32.482	35.0#	123	0.00
80	T	1,3,5-Trimethylbenzene	50.000	33.126	33.7#	123	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	30.573	38.9#	116	0.00
82	T	4-Chlorotoluene	50.000	32.684	34.6#	122	0.00
83	T	tert-Butylbenzene	50.000	33.952	32.1#	123	0.00
84	T	1,2,4-Trimethylbenzene	50.000	32.854	34.3#	122	0.00
85	T	sec-Butylbenzene	50.000	33.819	32.4#	125	0.00
86	T	p-Isopropyltoluene	50.000	33.856	32.3#	125	0.00
87	T	1,3-Dichlorobenzene	50.000	32.111	35.8#	120	0.00
88	T	1,4-Dichlorobenzene	50.000	31.826	36.3#	121	0.00
89	T	n-Butylbenzene	50.000	34.671	30.7#	127	0.00
90	T	Hexachloroethane	50.000	33.029	33.9#	124	0.00
91	T	1,2-Dichlorobenzene	50.000	31.920	36.2#	120	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	29.903	40.2#	119	0.00
93	T	1,2,4-Trichlorobenzene	50.000	33.062	33.9#	126	0.00
94	T	Hexachlorobutadiene	50.000	33.677	32.6#	125	0.00
95	T	Naphthalene	50.000	32.560	34.9#	121	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020082.D
Acq On : 30 Oct 2024 15:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY103024

Quant Time: Oct 31 15:29:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	32.403	35.2#	126	0.00

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

Raw Data: **VY020109.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: MSVOA_Y Calibration Date/Time: 11/01/2024 09:02

Lab File ID: VY020109.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.463	0.416		-10.15	20
Chloromethane	0.767	0.738	0.1	-3.78	20
Vinyl Chloride	0.823	0.819		-0.49	20
Bromomethane	0.546	0.498		-8.79	20
Chloroethane	0.531	0.533		0.38	20
Trichlorofluoromethane	1.005	1.006		0.1	20
1,1,2-Trichlorotrifluoroethane	0.564	0.567		0.53	20
1,1-Dichloroethene	0.540	0.544		0.74	20
Acetone	0.145	0.171		17.93	20
Carbon Disulfide	1.796	1.799		0.17	20
Methyl tert-butyl Ether	1.357	1.331		-1.92	20
Methyl Acetate	0.340	0.316		-7.06	20
Methylene Chloride	0.652	0.581		-10.89	20
trans-1,2-Dichloroethene	0.609	0.606		-0.49	20
1,1-Dichloroethane	1.170	1.189	0.1	1.62	20
Cyclohexane	1.132	1.101		-2.74	20
2-Butanone	0.197	0.205		4.06	20
Carbon Tetrachloride	0.494	0.533		7.89	20
cis-1,2-Dichloroethene	0.700	0.703		0.43	20
Bromochloromethane	0.548	0.558		1.83	20
Chloroform	1.161	1.178		1.46	20
1,1,1-Trichloroethane	1.013	1.038		2.47	20
Methylcyclohexane	0.623	0.670		7.54	20
Benzene	1.433	1.512		5.51	20
1,2-Dichloroethane	0.397	0.403		1.51	20
Trichloroethene	0.332	0.346		4.22	20
1,2-Dichloropropane	0.343	0.366		6.71	20
Bromodichloromethane	0.487	0.509		4.52	20
4-Methyl-2-Pentanone	0.232	0.240		3.45	20
Toluene	0.884	0.962		8.82	20
t-1,3-Dichloropropene	0.430	0.446		3.72	20
cis-1,3-Dichloropropene	0.513	0.545		6.24	20
1,1,2-Trichloroethane	0.231	0.240		3.9	20
2-Hexanone	0.166	0.183		10.24	20
Dibromochloromethane	0.295	0.302		2.37	20
1,2-Dibromoethane	0.215	0.215		0	20
Tetrachloroethene	0.330	0.354		7.27	20
Chlorobenzene	1.065	1.146	0.3	7.61	20

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

Raw Data: **VY020109.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: MSVOA_Y Calibration Date/Time: 11/01/2024 09:02

Lab File ID: VY020109.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.992	2.169		8.89	20
m/p-Xylenes	0.729	0.794		8.92	20
o-Xylene	0.690	0.761		10.29	20
Styrene	1.141	1.258		10.25	20
Bromoform	0.175	0.184	0.1	5.14	20
Isopropylbenzene	3.994	4.389		9.89	20
1,1,2,2-Tetrachloroethane	0.699	0.687	0.3	-1.72	20
1,3-Dichlorobenzene	1.641	1.752		6.76	20
1,4-Dichlorobenzene	1.634	1.698		3.92	20
1,2-Dichlorobenzene	1.426	1.498		5.05	20
1,2-Dibromo-3-Chloropropane	0.106	0.101		-4.72	20
1,2,4-Trichlorobenzene	0.766	0.780		1.83	20
1,2,3-Trichlorobenzene	0.650	0.631		-2.92	20
1,2-Dichloroethane-d4	0.624	0.526		-15.7	20
Dibromofluoromethane	0.318	0.284		-10.69	20
Toluene-d8	1.265	1.175		-7.11	20
4-Bromofluorobenzene	0.411	0.381		-7.3	20

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

Sample Results: **VY020109.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020109.D
Acq On : 01 Nov 2024 09:02
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 16:01:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.713	168	249316	50.000	ug/l	#	0.00
34) 1,4-Difluorobenzene	8.615	114	428486	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.420	117	369253	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	173771	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	131068	42.122	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 84.240%				
35) Dibromofluoromethane	7.640	113	121523	44.607	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 89.220%				
50) Toluene-d8	10.109	98	503523	46.433	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 92.860%				
62) 4-Bromofluorobenzene	12.407	95	163151	46.320	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 92.640%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	103755	44.957	ug/l		99
3) Chloromethane	2.074	50	183874	48.100	ug/l		99
4) Vinyl Chloride	2.208	62	204090	49.731	ug/l		98
5) Bromomethane	2.598	94	124253	45.603	ug/l		98
6) Chloroethane	2.738	64	132822	50.150	ug/l		96
7) Trichlorofluoromethane	3.061	101	250729	50.012	ug/l		99
8) Diethyl Ether	3.458	74	65824	47.075	ug/l		75
9) 1,1,2-Trichlorotrifluo...	3.824	101	141418	50.292	ug/l		90
10) Methyl Iodide	4.006	142	138545	51.032	ug/l	#	89
11) Tert butyl alcohol	4.848	59	45722	204.280	ug/l	#	81
12) 1,1-Dichloroethene	3.793	96	135668	50.426	ug/l	#	80
13) Acrolein	3.653	56	49918	179.161	ug/l		95
14) Allyl chloride	4.384	41	249945	51.492	ug/l	#	88
15) Acrylonitrile	5.055	53	148658	233.558	ug/l		97
16) Acetone	3.866	43	212926	294.249	ug/l	#	83
17) Carbon Disulfide	4.110	76	448537	50.097	ug/l		97
18) Methyl Acetate	4.378	43	78833	46.432	ug/l	#	86
19) Methyl tert-butyl Ether	5.116	73	331934	49.040	ug/l		97
20) Methylene Chloride	4.616	84	144763	44.533	ug/l	#	77
21) trans-1,2-Dichloroethene	5.110	96	151067	49.788	ug/l	#	84
22) Diisopropyl ether	6.024	45	522074	51.829	ug/l		92
23) Vinyl Acetate	5.963	43	1410686	248.850	ug/l	#	91
24) 1,1-Dichloroethane	5.921	63	296321	50.804	ug/l		95
25) 2-Butanone	6.896	43	255711	260.690	ug/l	#	83
26) 2,2-Dichloropropane	6.890	77	250251	51.567	ug/l		94
27) cis-1,2-Dichloroethene	6.896	96	175182	50.225	ug/l		82
28) Bromochloromethane	7.244	49	139004	50.896	ug/l	#	71
29) Tetrahydrofuran	7.262	42	138004	243.788	ug/l	#	81
30) Chloroform	7.420	83	293762	50.754	ug/l		97
31) Cyclohexane	7.707	56	274576	48.626	ug/l		85
32) 1,1,1-Trichloroethane	7.622	97	258842	51.223	ug/l	#	92
36) 1,1-Dichloropropene	7.841	75	223136	53.021	ug/l		94
37) Ethyl Acetate	6.981	43	95438	47.566	ug/l		96
38) Carbon Tetrachloride	7.823	117	228364	53.962	ug/l		99
39) Methylcyclohexane	9.109	83	286901	53.715	ug/l	#	85
40) Benzene	8.085	78	647965	52.750	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020109.D
Acq On : 01 Nov 2024 09:02
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 16:01:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	47880	47.637	ug/l		92
42) 1,2-Dichloroethane	8.158	62	172643	50.776	ug/l		94
43) Isopropyl Acetate	8.195	43	193394	50.124	ug/l	#	76
44) Trichloroethene	8.865	130	148107	52.023	ug/l		82
45) 1,2-Dichloropropane	9.140	63	156945	53.403	ug/l		99
46) Dibromomethane	9.231	93	79520	49.936	ug/l	#	88
47) Bromodichloromethane	9.420	83	218191	52.302	ug/l		99
48) Methyl methacrylate	9.219	41	91503	51.200	ug/l	#	81
49) 1,4-Dioxane	9.225	88	15722	958.964	ug/l	#	81
51) 4-Methyl-2-Pentanone	9.999	43	514849	258.970	ug/l		88
52) Toluene	10.170	92	412045	54.417	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	191112	51.879	ug/l		99
54) cis-1,3-Dichloropropene	9.859	75	233637	53.136	ug/l	#	85
55) 1,1,2-Trichloroethane	10.572	97	102827	51.934	ug/l		96
56) Ethyl methacrylate	10.438	69	147441	51.913	ug/l	#	73
57) 1,3-Dichloropropane	10.719	76	184774	50.960	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	357913	255.530	ug/l		92
59) 2-Hexanone	10.761	43	392089	275.094	ug/l		86
60) Dibromochloromethane	10.914	129	129607	51.353	ug/l		98
61) 1,2-Dibromoethane	11.017	107	91961	49.992	ug/l		97
64) Tetrachloroethene	10.645	164	130582	53.560	ug/l		93
65) Chlorobenzene	11.444	112	423317	53.803	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.517	131	134552	53.527	ug/l		99
67) Ethyl Benzene	11.517	91	801085	54.467	ug/l		98
68) m/p-Xylenes	11.627	106	586451	108.985	ug/l		90
69) o-Xylene	11.956	106	280820	55.122	ug/l		94
70) Styrene	11.968	104	464361	55.127	ug/l		95
71) Bromoform	12.133	173	68045	52.765	ug/l	#	98
73) Isopropylbenzene	12.255	105	762652	54.939	ug/l		98
74) N-amyl acetate	12.072	43	180993	52.159	ug/l	#	86
75) 1,1,2,2-Tetrachloroethane	12.505	83	119350	49.160	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	86679m	53.213	ug/l		
77) Bromobenzene	12.535	156	146147	52.057	ug/l		83
78) n-propylbenzene	12.596	91	947658	54.852	ug/l		97
79) 2-Chlorotoluene	12.682	91	515022	53.704	ug/l		94
80) 1,3,5-Trimethylbenzene	12.737	105	612104	54.924	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.304	75	38573	50.935	ug/l	#	84
82) 4-Chlorotoluene	12.779	91	531989	54.407	ug/l		94
83) tert-Butylbenzene	12.999	119	549415	56.378	ug/l		95
84) 1,2,4-Trimethylbenzene	13.041	105	611640	55.410	ug/l		96
85) sec-Butylbenzene	13.175	105	836517	55.915	ug/l		97
86) p-Isopropyltoluene	13.291	119	673934	56.136	ug/l		95
87) 1,3-Dichlorobenzene	13.285	146	304362	53.366	ug/l		97
88) 1,4-Dichlorobenzene	13.364	146	294983	51.937	ug/l		96
89) n-Butylbenzene	13.614	91	673966	56.002	ug/l		97
90) Hexachloroethane	13.883	117	128597	54.163	ug/l		86
91) 1,2-Dichlorobenzene	13.657	146	260231	52.494	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	17606	47.819	ug/l		73
93) 1,2,4-Trichlorobenzene	14.919	180	135617	50.925	ug/l		98
94) Hexachlorobutadiene	15.023	225	77794	53.421	ug/l		99
95) Naphthalene	15.145	128	235683	47.344	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	109649	48.504	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020109.D
Acq On : 01 Nov 2024 09:02
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 16:01:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

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

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

Sample Results: **VY020109.D**

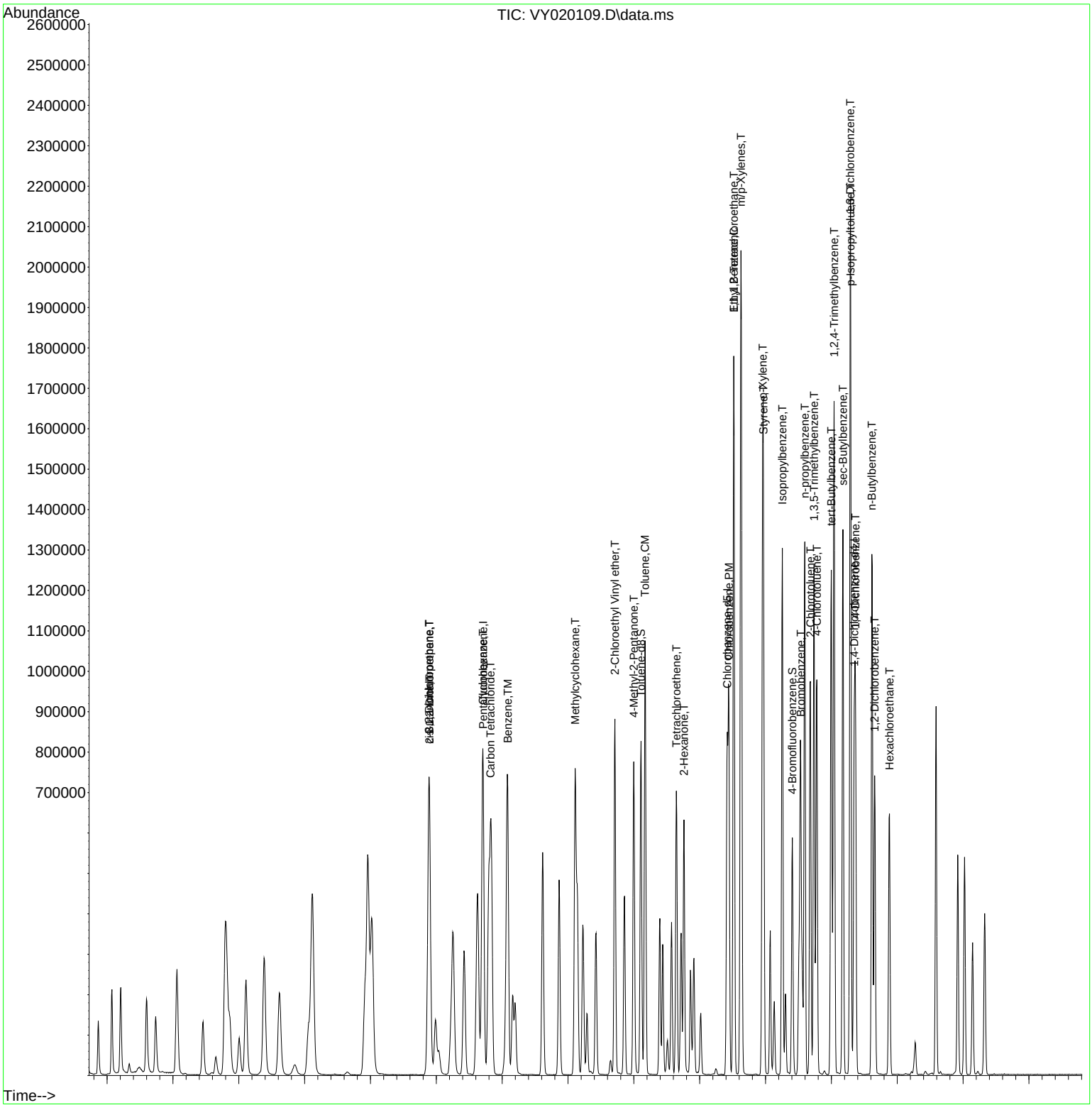
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020109.D
Acq On : 01 Nov 2024 09:02
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 16:01:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Sample Results: **VY020109.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020109.D
Acq On : 01 Nov 2024 09:02
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 01 16:01:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	0.463	0.416	10.2	107	0.00
3	P	Chloromethane	0.767	0.738	3.8	106	0.00
4	C	Vinyl Chloride	0.823	0.819	0.5#	107	0.00
5	T	Bromomethane	0.546	0.498	8.8	102	0.00
6	T	Chloroethane	0.531	0.533	-0.4	108	0.00
7	T	Trichlorofluoromethane	1.005	1.006	-0.1	107	0.00
8	T	Diethyl Ether	0.280	0.264	5.7	103	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.564	0.567	-0.5	110	0.01
10	T	Methyl Iodide	0.544	0.556	-2.2	106	0.00
11	T	Tert butyl alcohol	0.045	0.037	17.8	110	-0.01
12	CM	1,1-Dichloroethene	0.540	0.544	-0.7#	109	0.00
13	T	Acrolein	0.056	0.040	28.6#	79	0.00
14	T	Allyl chloride	0.973	1.003	-3.1	108	0.00
15	T	Acrylonitrile	0.128	0.119	7.0	100	0.00
16	T	Acetone	0.145	0.171	-17.9	120	0.00
17	T	Carbon Disulfide	1.796	1.799	-0.2	106	0.00
18	T	Methyl Acetate	0.340	0.316	7.1	98	0.00
19	T	Methyl tert-butyl Ether	1.357	1.331	1.9	106	0.00
20	T	Methylene Chloride	0.652	0.581	10.9	103	0.00
21	T	trans-1,2-Dichloroethene	0.609	0.606	0.5	106	0.00
22	T	Diisopropyl ether	2.020	2.094	-3.7	109	0.00
23	T	Vinyl Acetate	1.137	1.132	0.4	106	0.00
24	P	1,1-Dichloroethane	1.170	1.189	-1.6	109	0.00
25	T	2-Butanone	0.197	0.205	-4.1	113	0.00
26	T	2,2-Dichloropropane	0.973	1.004	-3.2	112	0.00
27	T	cis-1,2-Dichloroethene	0.700	0.703	-0.4	107	0.00
28	T	Bromochloromethane	0.548	0.558	-1.8	109	0.00
29	T	Tetrahydrofuran	0.114	0.111	2.6	105	0.00
30	C	Chloroform	1.161	1.178	-1.5#	109	0.00
31	T	Cyclohexane	1.132	1.101	2.7	110	0.00
32	T	1,1,1-Trichloroethane	1.013	1.038	-2.5	108	0.00
33	S	1,2-Dichloroethane-d4	0.624	0.526	15.7	88	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
35	S	Dibromofluoromethane	0.318	0.284	10.7	89	0.00
36	T	1,1-Dichloropropene	0.491	0.521	-6.1	111	0.00
37	T	Ethyl Acetate	0.234	0.223	4.7	101	0.00
38	T	Carbon Tetrachloride	0.494	0.533	-7.9	110	0.00
39	T	Methylcyclohexane	0.623	0.670	-7.5	111	0.00
40	TM	Benzene	1.433	1.512	-5.5	109	0.00
41	T	Methacrylonitrile	0.117	0.112	4.3	90	0.00
42	TM	1,2-Dichloroethane	0.397	0.403	-1.5	105	0.00
43	T	Isopropyl Acetate	0.450	0.451	-0.2	105	0.00
44	TM	Trichloroethene	0.332	0.346	-4.2	107	0.00
45	C	1,2-Dichloropropane	0.343	0.366	-6.7#	109	0.00
46	T	Dibromomethane	0.186	0.186	0.0	103	0.00
47	T	Bromodichloromethane	0.487	0.509	-4.5	108	0.00
48	T	Methyl methacrylate	0.209	0.214	-2.4	103	0.00

Sample Results: **VY020109.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020109.D
Acq On : 01 Nov 2024 09:02
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 01 16:01:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	100	0.00
50	S	Toluene-d8	1.265	1.175	7.1	92	0.00
51	T	4-Methyl-2-Pentanone	0.232	0.240	-3.4	105	0.00
52	CM	Toluene	0.884	0.962	-8.8#	110	0.00
53	T	t-1,3-Dichloropropene	0.430	0.446	-3.7	106	0.00
54	T	cis-1,3-Dichloropropene	0.513	0.545	-6.2	108	0.00
55	T	1,1,2-Trichloroethane	0.231	0.240	-3.9	106	0.00
56	T	Ethyl methacrylate	0.331	0.344	-3.9	104	0.00
57	T	1,3-Dichloropropane	0.423	0.431	-1.9	105	0.00
58	T	2-Chloroethyl Vinyl ether	0.163	0.167	-2.5	99	0.00
59	T	2-Hexanone	0.166	0.183	-10.2	111	0.00
60	T	Dibromochloromethane	0.295	0.302	-2.4	106	0.00
61	T	1,2-Dibromoethane	0.215	0.215	0.0	105	0.00
62	S	4-Bromofluorobenzene	0.411	0.381	7.3	91	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64	T	Tetrachloroethene	0.330	0.354	-7.3	109	0.00
65	PM	Chlorobenzene	1.065	1.146	-7.6	109	0.00
66	T	1,1,1,2-Tetrachloroethane	0.340	0.364	-7.1	108	0.00
67	C	Ethyl Benzene	1.992	2.169	-8.9#	109	0.00
68	T	m/p-Xylenes	0.729	0.794	-8.9	108	0.00
69	T	o-Xylene	0.690	0.761	-10.3	111	0.00
70	T	Styrene	1.141	1.258	-10.3	109	0.00
71	P	Bromoform	0.175	0.184	-5.1	106	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
73	T	Isopropylbenzene	3.994	4.389	-9.9	110	0.00
74	T	N-amyl acetate	0.998	1.042	-4.4	105	0.00
75	P	1,1,2,2-Tetrachloroethane	0.699	0.687	1.7	102	0.00
76	T	1,2,3-Trichloropropane	0.469	0.499	-6.4	108	0.00
77	T	Bromobenzene	0.808	0.841	-4.1	105	0.00
78	T	n-propylbenzene	4.971	5.453	-9.7	110	0.00
79	T	2-Chlorotoluene	2.759	2.964	-7.4	109	0.00
80	T	1,3,5-Trimethylbenzene	3.207	3.522	-9.8	110	0.00
81	T	trans-1,4-Dichloro-2-butene	0.218	0.222	-1.8	104	0.00
82	T	4-Chlorotoluene	2.813	3.061	-8.8	109	0.00
83	T	tert-Butylbenzene	2.804	3.162	-12.8	110	0.00
84	T	1,2,4-Trimethylbenzene	3.176	3.520	-10.8	111	0.00
85	T	sec-Butylbenzene	4.305	4.814	-11.8	111	0.00
86	T	p-Isopropyltoluene	3.454	3.878	-12.3	111	0.00
87	T	1,3-Dichlorobenzene	1.641	1.752	-6.8	108	0.00
88	T	1,4-Dichlorobenzene	1.634	1.698	-3.9	106	0.00
89	T	n-Butylbenzene	3.463	3.878	-12.0	110	0.00
90	T	Hexachloroethane	0.683	0.740	-8.3	109	0.00
91	T	1,2-Dichlorobenzene	1.426	1.498	-5.0	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.106	0.101	4.7	102	0.00
93	T	1,2,4-Trichlorobenzene	0.766	0.780	-1.8	104	0.00
94	T	Hexachlorobutadiene	0.419	0.448	-6.9	107	0.00
95	T	Naphthalene	1.432	1.356	5.3	95	0.00

Sample Results: **VY020109.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020109.D
Acq On : 01 Nov 2024 09:02
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 01 16:01:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.650	0.631	2.9	102	0.00

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

Sample Results: **VY020109.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020109.D
Acq On : 01 Nov 2024 09:02
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 01 16:01:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	50.000	44.957	10.1	107	0.00
3	P	Chloromethane	50.000	48.100	3.8	106	0.00
4	C	Vinyl Chloride	50.000	49.731	0.5#	107	0.00
5	T	Bromomethane	50.000	45.603	8.8	102	0.00
6	T	Chloroethane	50.000	50.150	-0.3	108	0.00
7	T	Trichlorofluoromethane	50.000	50.012	-0.0	107	0.00
8	T	Diethyl Ether	50.000	47.075	5.8	103	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.292	-0.6	110	0.01
10	T	Methyl Iodide	50.000	51.032	-2.1	106	0.00
11	T	Tert butyl alcohol	250.000	204.280	18.3	110	-0.01
12	CM	1,1-Dichloroethene	50.000	50.426	-0.9#	109	0.00
13	T	Acrolein	250.000	179.161	28.3#	79	0.00
14	T	Allyl chloride	50.000	51.492	-3.0	108	0.00
15	T	Acrylonitrile	250.000	233.558	6.6	100	0.00
16	T	Acetone	250.000	294.249	-17.7	120	0.00
17	T	Carbon Disulfide	50.000	50.097	-0.2	106	0.00
18	T	Methyl Acetate	50.000	46.432	7.1	98	0.00
19	T	Methyl tert-butyl Ether	50.000	49.040	1.9	106	0.00
20	T	Methylene Chloride	50.000	44.533	10.9	103	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.788	0.4	106	0.00
22	T	Diisopropyl ether	50.000	51.829	-3.7	109	0.00
23	T	Vinyl Acetate	250.000	248.850	0.5	106	0.00
24	P	1,1-Dichloroethane	50.000	50.804	-1.6	109	0.00
25	T	2-Butanone	250.000	260.690	-4.3	113	0.00
26	T	2,2-Dichloropropane	50.000	51.567	-3.1	112	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.225	-0.5	107	0.00
28	T	Bromochloromethane	50.000	50.896	-1.8	109	0.00
29	T	Tetrahydrofuran	250.000	243.788	2.5	105	0.00
30	C	Chloroform	50.000	50.754	-1.5#	109	0.00
31	T	Cyclohexane	50.000	48.626	2.7	110	0.00
32	T	1,1,1-Trichloroethane	50.000	51.223	-2.4	108	0.00
33	S	1,2-Dichloroethane-d4	50.000	42.122	15.8	88	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	95	0.00
35	S	Dibromofluoromethane	50.000	44.607	10.8	89	0.00
36	T	1,1-Dichloropropene	50.000	53.021	-6.0	111	0.00
37	T	Ethyl Acetate	50.000	47.566	4.9	101	0.00
38	T	Carbon Tetrachloride	50.000	53.962	-7.9	110	0.00
39	T	Methylcyclohexane	50.000	53.715	-7.4	111	0.00
40	TM	Benzene	50.000	52.750	-5.5	109	0.00
41	T	Methacrylonitrile	50.000	47.637	4.7	90	0.00
42	TM	1,2-Dichloroethane	50.000	50.776	-1.6	105	0.00
43	T	Isopropyl Acetate	50.000	50.124	-0.2	105	0.00
44	TM	Trichloroethene	50.000	52.023	-4.0	107	0.00
45	C	1,2-Dichloropropane	50.000	53.403	-6.8#	109	0.00
46	T	Dibromomethane	50.000	49.936	0.1	103	0.00
47	T	Bromodichloromethane	50.000	52.302	-4.6	108	0.00
48	T	Methyl methacrylate	50.000	51.200	-2.4	103	0.00

Sample Results: **VY020109.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020109.D
Acq On : 01 Nov 2024 09:02
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 01 16:01:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	958.964	4.1	100	0.00
50	S	Toluene-d8	50.000	46.433	7.1	92	0.00
51	T	4-Methyl-2-Pentanone	250.000	258.970	-3.6	105	0.00
52	CM	Toluene	50.000	54.417	-8.8#	110	0.00
53	T	t-1,3-Dichloropropene	50.000	51.879	-3.8	106	0.00
54	T	cis-1,3-Dichloropropene	50.000	53.136	-6.3	108	0.00
55	T	1,1,2-Trichloroethane	50.000	51.934	-3.9	106	0.00
56	T	Ethyl methacrylate	50.000	51.913	-3.8	104	0.00
57	T	1,3-Dichloropropane	50.000	50.960	-1.9	105	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	255.530	-2.2	99	0.00
59	T	2-Hexanone	250.000	275.094	-10.0	111	0.00
60	T	Dibromochloromethane	50.000	51.353	-2.7	106	0.00
61	T	1,2-Dibromoethane	50.000	49.992	0.0	105	0.00
62	S	4-Bromofluorobenzene	50.000	46.320	7.4	91	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64	T	Tetrachloroethene	50.000	53.560	-7.1	109	0.00
65	PM	Chlorobenzene	50.000	53.803	-7.6	109	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	53.527	-7.1	108	0.00
67	C	Ethyl Benzene	50.000	54.467	-8.9#	109	0.00
68	T	m/p-Xylenes	100.000	108.985	-9.0	108	0.00
69	T	o-Xylene	50.000	55.122	-10.2	111	0.00
70	T	Styrene	50.000	55.127	-10.3	109	0.00
71	P	Bromoform	50.000	52.765	-5.5	106	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	93	0.00
73	T	Isopropylbenzene	50.000	54.939	-9.9	110	0.00
74	T	N-amyl acetate	50.000	52.159	-4.3	105	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.160	1.7	102	0.00
76	T	1,2,3-Trichloropropane	50.000	53.213	-6.4	108	0.00
77	T	Bromobenzene	50.000	52.057	-4.1	105	0.00
78	T	n-propylbenzene	50.000	54.852	-9.7	110	0.00
79	T	2-Chlorotoluene	50.000	53.704	-7.4	109	0.00
80	T	1,3,5-Trimethylbenzene	50.000	54.924	-9.8	110	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.935	-1.9	104	0.00
82	T	4-Chlorotoluene	50.000	54.407	-8.8	109	0.00
83	T	tert-Butylbenzene	50.000	56.378	-12.8	110	0.00
84	T	1,2,4-Trimethylbenzene	50.000	55.410	-10.8	111	0.00
85	T	sec-Butylbenzene	50.000	55.915	-11.8	111	0.00
86	T	p-Isopropyltoluene	50.000	56.136	-12.3	111	0.00
87	T	1,3-Dichlorobenzene	50.000	53.366	-6.7	108	0.00
88	T	1,4-Dichlorobenzene	50.000	51.937	-3.9	106	0.00
89	T	n-Butylbenzene	50.000	56.002	-12.0	110	0.00
90	T	Hexachloroethane	50.000	54.163	-8.3	109	0.00
91	T	1,2-Dichlorobenzene	50.000	52.494	-5.0	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.819	4.4	102	0.00
93	T	1,2,4-Trichlorobenzene	50.000	50.925	-1.8	104	0.00
94	T	Hexachlorobutadiene	50.000	53.421	-6.8	107	0.00
95	T	Naphthalene	50.000	47.344	5.3	95	0.00

Sample Results: **VY020109.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020109.D
Acq On : 01 Nov 2024 09:02
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 01 16:01:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.504	3.0	102	0.00

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

QC SAMPLE DATA

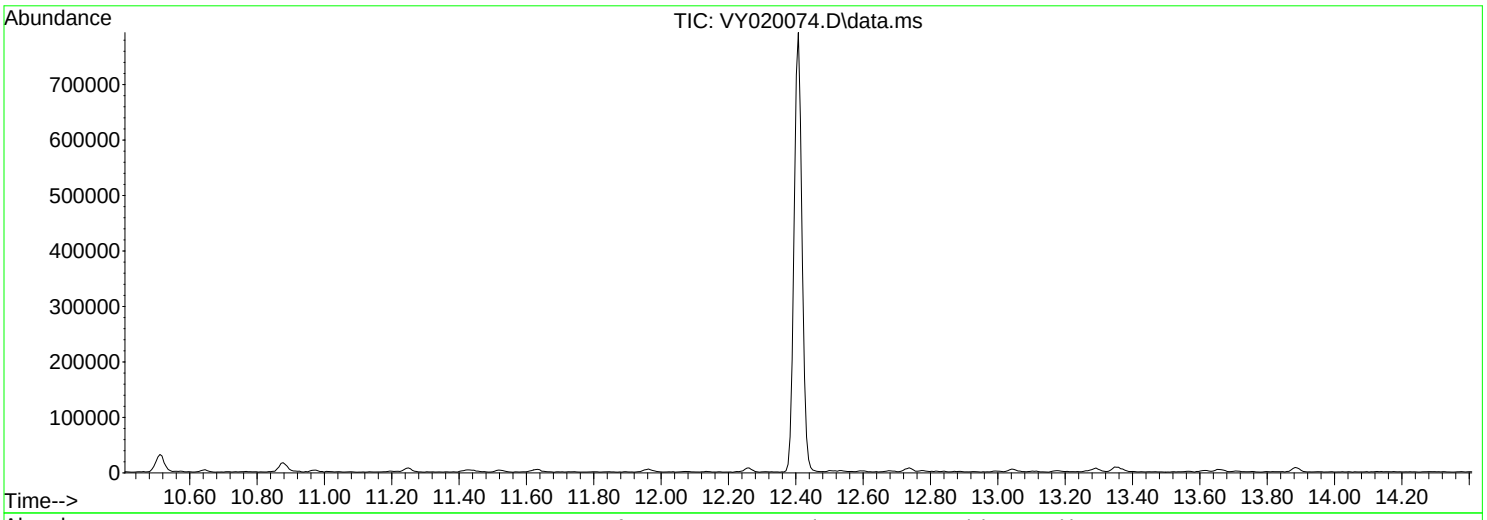
Sample Results: **VY020074.D**

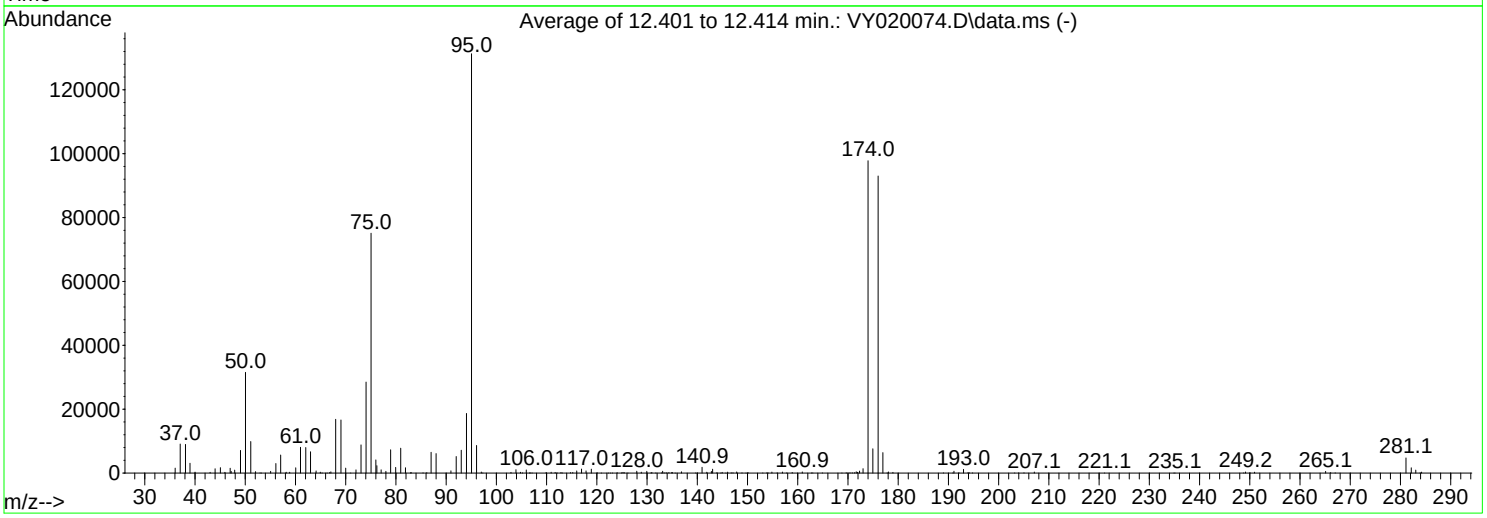
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020074.D
Acq On : 30 Oct 2024 12:07
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Title : SW846 8260
Last Update : Thu Oct 31 15:23:13 2024





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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	31536	PASS
75	95	30	60	57.2	75109	PASS
95	95	100	100	100.0	131296	PASS
96	95	5	9	6.6	8653	PASS
173	174	0.00	2	1.4	1390	PASS
174	95	50	100	74.5	97792	PASS
175	174	5	9	7.8	7615	PASS
176	174	95	101	95.1	93016	PASS
177	176	5	9	6.9	6402	PASS

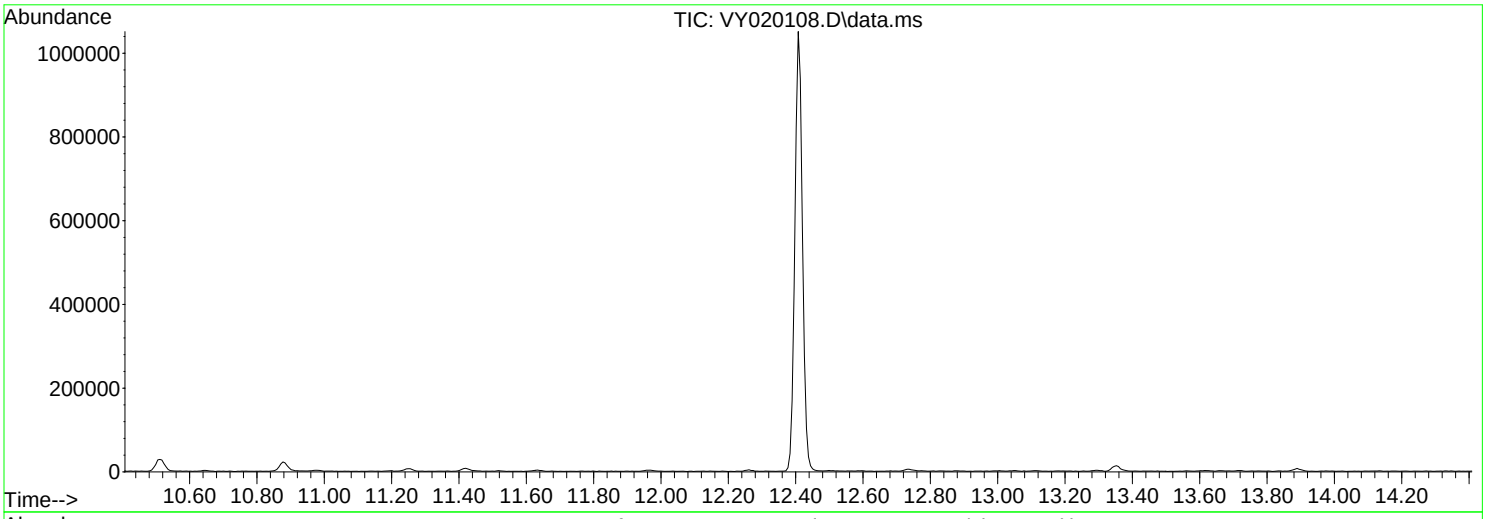
Sample Results: **VY020108.D**

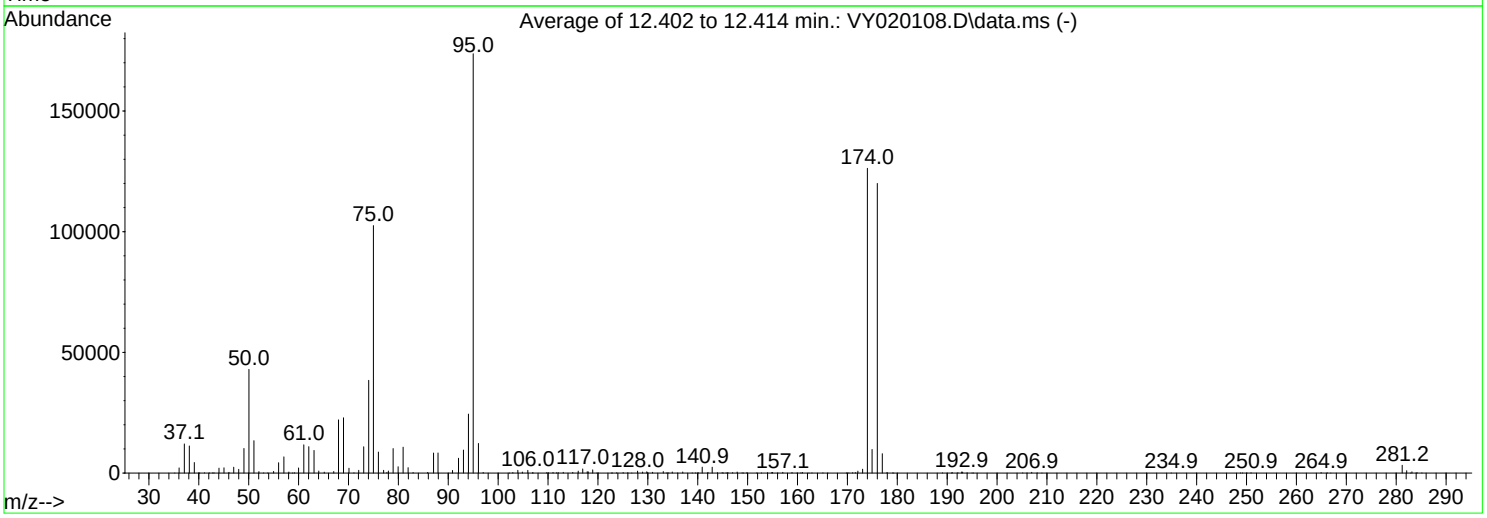
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020108.D
Acq On : 01 Nov 2024 08:26
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Title : SW846 8260
Last Update : Thu Oct 31 15:23:13 2024





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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.7	42973	PASS
75	95	30	60	59.0	102539	PASS
95	95	100	100	100.0	173739	PASS
96	95	5	9	7.1	12286	PASS
173	174	0.00	2	1.3	1619	PASS
174	95	50	100	72.7	126267	PASS
175	174	5	9	7.8	9797	PASS
176	174	95	101	95.0	119995	PASS
177	176	5	9	6.7	8034	PASS

Raw Data: **VY020110.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBL01	SDG No.:	P4663
Lab Sample ID:	VY1101SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020110.D	1		11/01/24 09:42	VY110124

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

Raw Data: **VY020110.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBL01	SDG No.:	P4663
Lab Sample ID:	VY1101SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020110.D	1		11/01/24 09:42	VY110124

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	57.4		70 (50) - 130 (163)	115%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (54) - 130 (147)	103%	SPK: 50
2037-26-5	Toluene-d8	48.9		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		70 (29) - 130 (146)	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	193000	7.707			
540-36-3	1,4-Difluorobenzene	404000	8.616			
3114-55-4	Chlorobenzene-d5	365000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	126000	13.347			

Raw Data: **VY020110.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBL01	SDG No.:	P4663
Lab Sample ID:	VY1101SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020110.D	1		11/01/24 09:42	VY110124

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\VY110124\
Data File : VY020110.D
Acq On : 01 Nov 2024 09:42
Operator : SY/MD
Sample : VY1101SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBL01

Quant Time: Nov 01 16:02:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

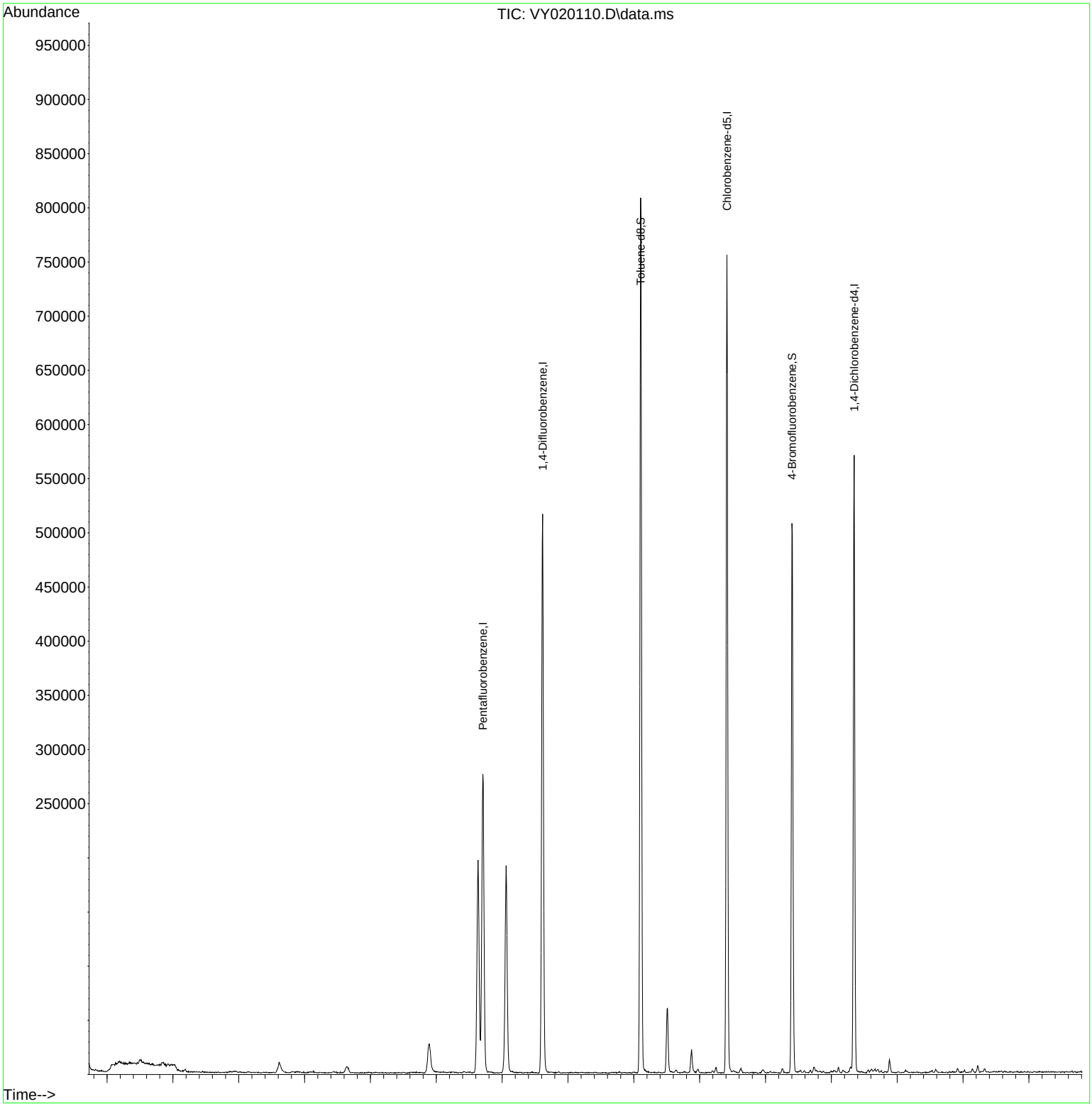
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	193272	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	403931	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	365454	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	125829	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	138556	57.441	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.880%			
35) Dibromofluoromethane	7.634	113	132476	51.584	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.160%			
50) Toluene-d8	10.103	98	500171	48.928	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.860%			
62) 4-Bromofluorobenzene	12.402	95	147112	44.305	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 88.620%			
Target Compounds						Qvalue

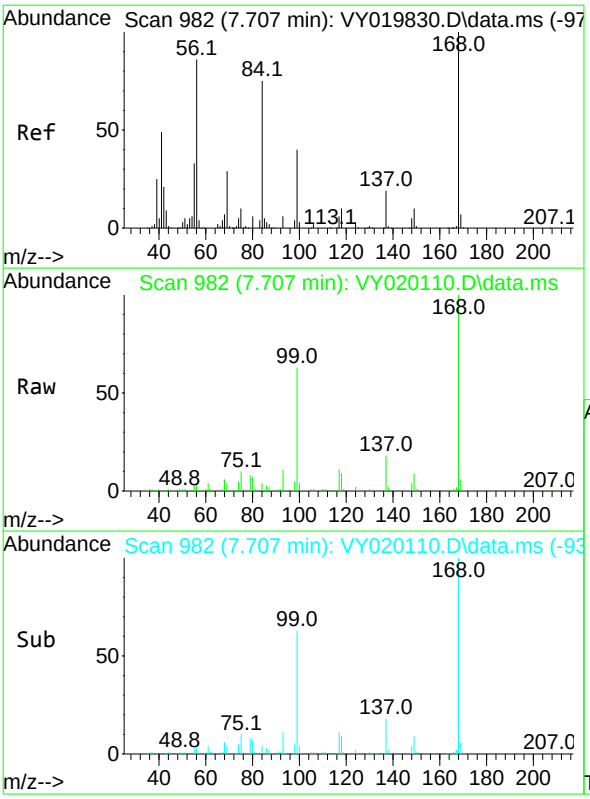
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020110.D
Acq On : 01 Nov 2024 09:42
Operator : SY/MD
Sample : VY1101SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBL01

Quant Time: Nov 01 16:02:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



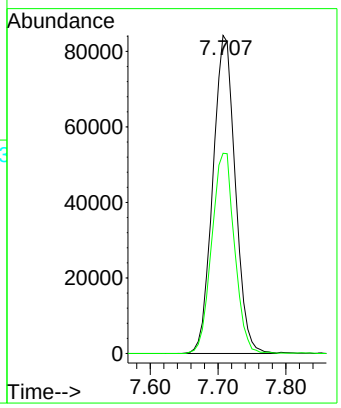


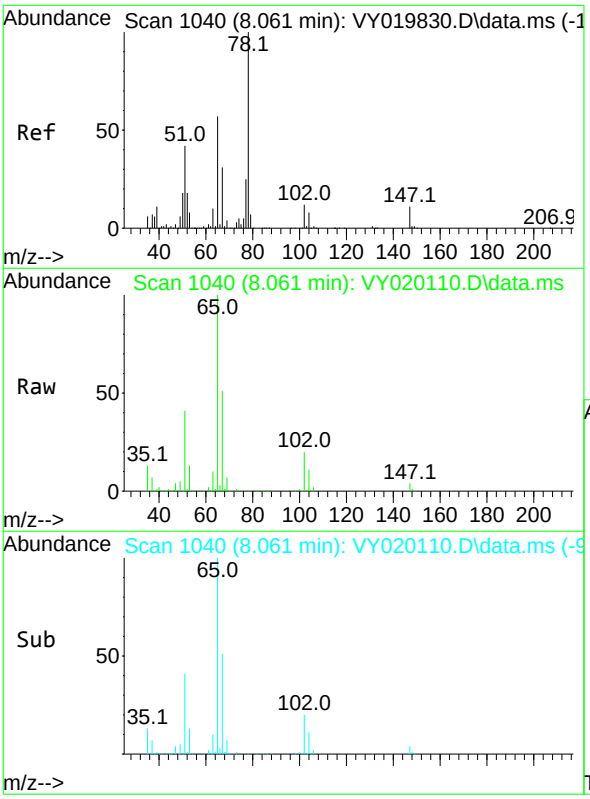
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBL01

Tgt Ion:168 Resp: 193272

Ion	Ratio	Lower	Upper
168	100		
99	63.0	39.1	58.7#

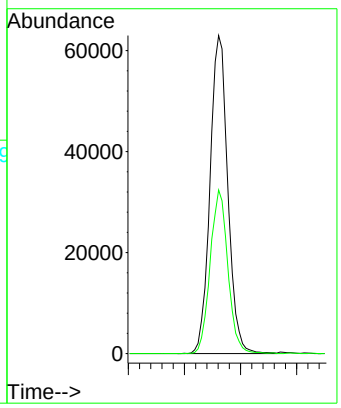


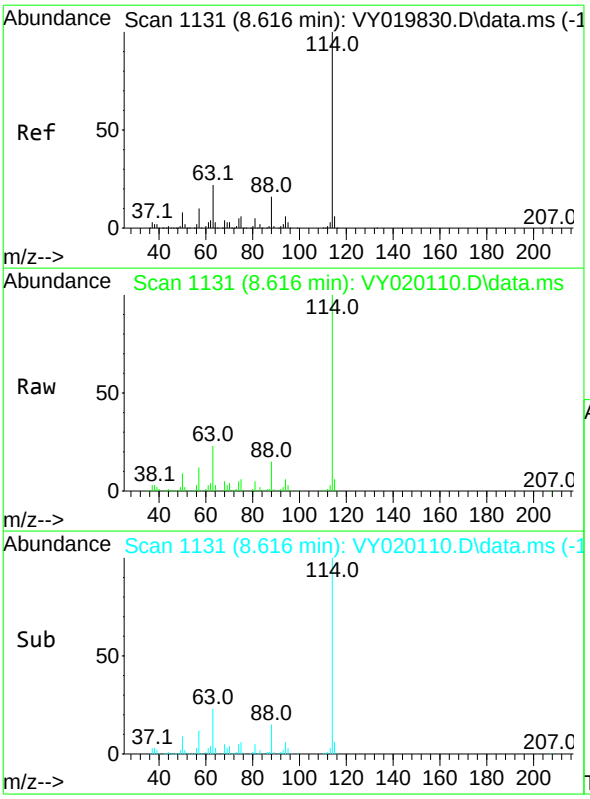


#33
1,2-Dichloroethane-d4
Concen: 57.441 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Tgt Ion: 65 Resp: 138556

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	109.6



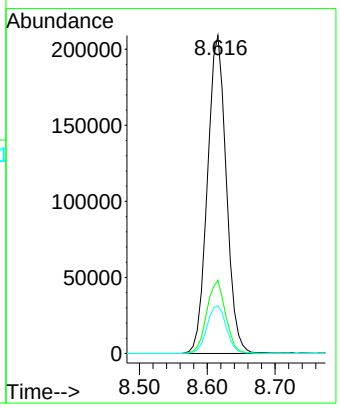


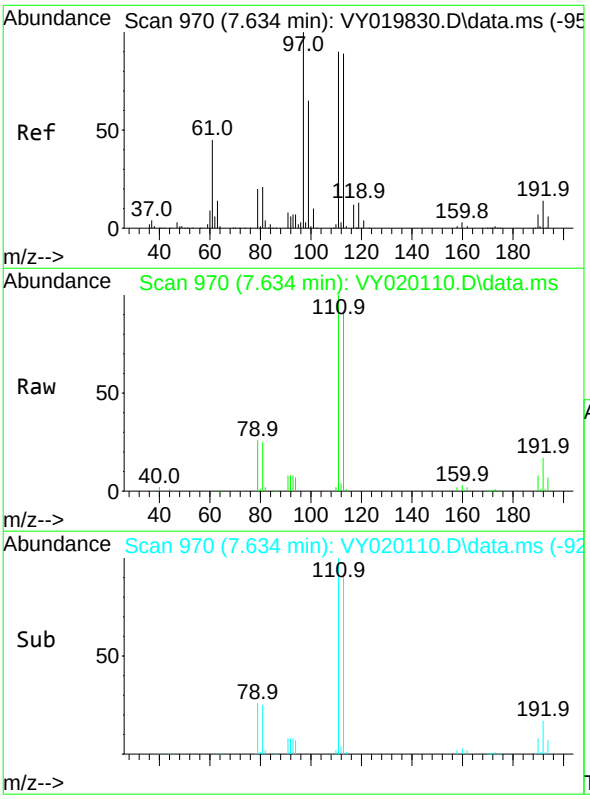
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBL01

Tgt Ion:114 Resp: 403931

Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	35.0
88	15.0	0.0	27.2

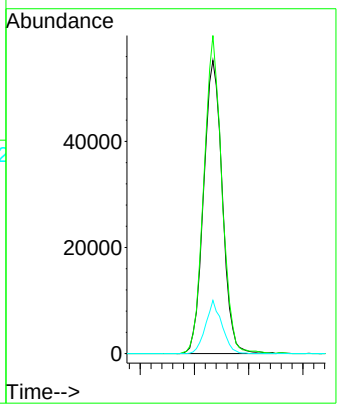


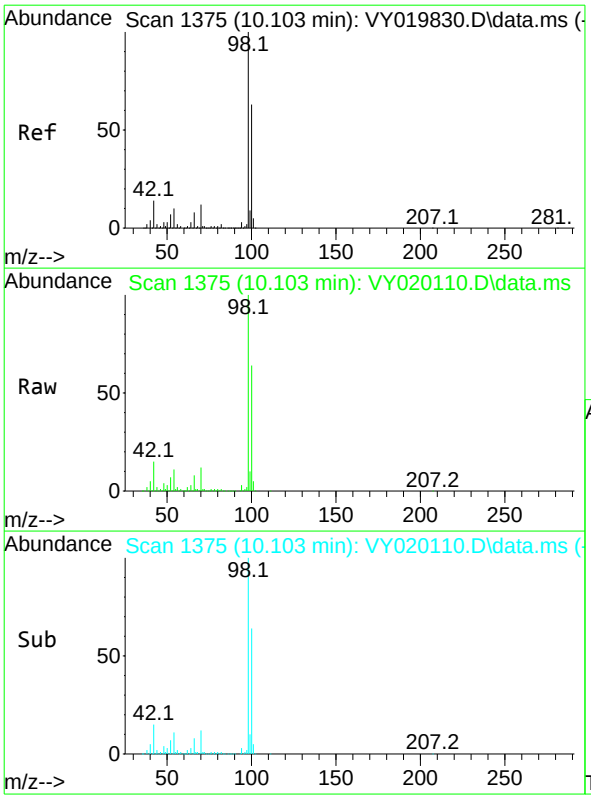


#35
Dibromofluoromethane
Concen: 51.584 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Tgt Ion:113 Resp: 132476

Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.2	123.4
192	15.9	15.9	23.9#



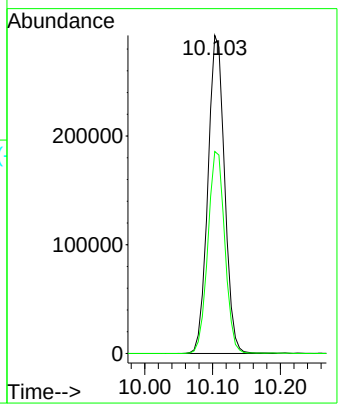


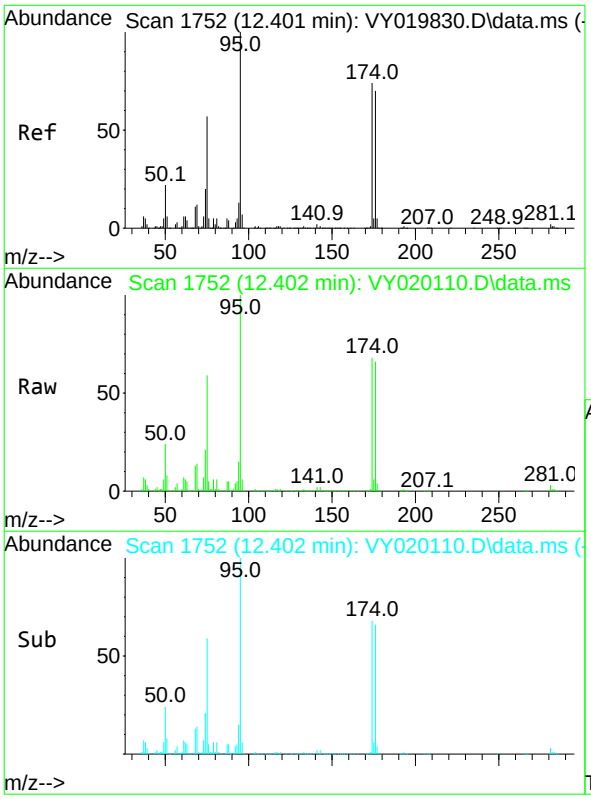
#50
Toluene-d8
Concen: 48.928 ug/l
RT: 10.103 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBL01

Tgt Ion: 98 Resp: 500171

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.0	78.0

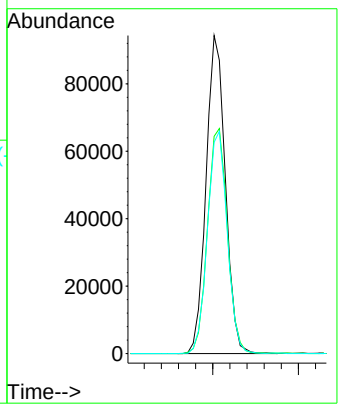


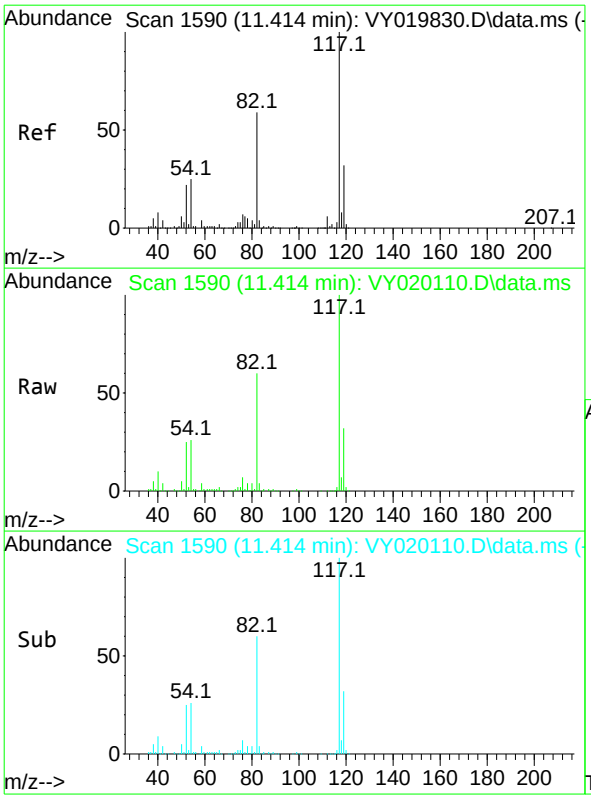


#62
4-Bromofluorobenzene
Concen: 44.305 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Tgt Ion: 95 Resp: 147112

Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	175.6
176	71.5	0.0	171.4



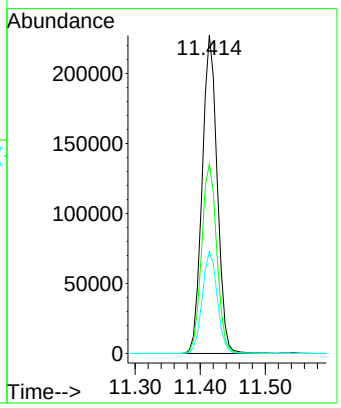


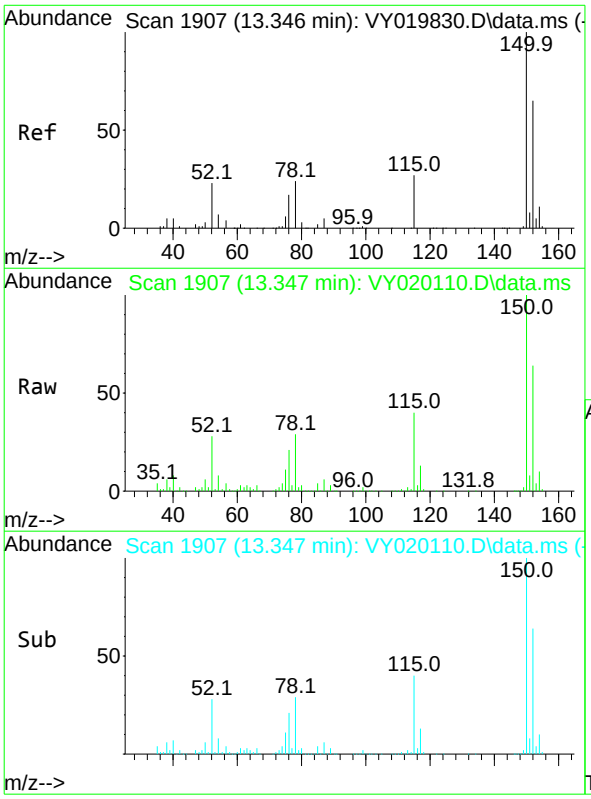
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBL01

Tgt Ion:117 Resp: 365454

Ion	Ratio	Lower	Upper
117	100		
82	59.5	42.4	63.6
119	32.1	25.9	38.9

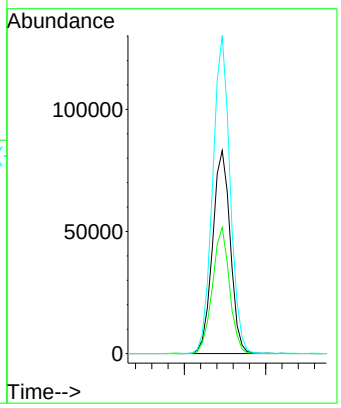




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Tgt Ion:152 Resp: 125829

Ion	Ratio	Lower	Upper
152	100		
115	60.0	28.2	84.7
150	153.7	0.0	345.6



Raw Data: **VY020111.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBS01	SDG No.:	P4663
Lab Sample ID:	VY1101SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020111.D	1		11/01/24 10:33	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.9		1.70	5.00	ug/Kg
74-87-3	Chloromethane	22.1		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.4		0.77	5.00	ug/Kg
74-83-9	Bromomethane	21.3		1.00	5.00	ug/Kg
75-00-3	Chloroethane	22.2		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.2		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	21.3		0.78	5.00	ug/Kg
67-64-1	Acetone	100		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.0		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	22.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	22.3		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	20.8		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.2		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.3		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	20.5		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.3		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.9		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	21.5		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.9		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.5		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.8		0.87	5.00	ug/Kg
71-43-2	Benzene	21.0		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.2		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.7		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	21.1		0.67	5.00	ug/Kg

Raw Data: **VY020111.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBS01	SDG No.:	P4663
Lab Sample ID:	VY1101SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020111.D	1		11/01/24 10:33	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.6		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.3		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.9		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.1		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.7		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.9		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.4		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.6		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.1		0.70	5.00	ug/Kg
100-42-5	Styrene	20.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.5		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.2		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.2		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	20.7		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.8		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.5		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.8		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.4		70 (50) - 130 (163)	119%	SPK: 50
1868-53-7	Dibromofluoromethane	56.7		70 (54) - 130 (147)	113%	SPK: 50
2037-26-5	Toluene-d8	57.8		70 (58) - 130 (134)	116%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.0		70 (29) - 130 (146)	112%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	225000	7.707			
540-36-3	1,4-Difluorobenzene	413000	8.616			
3114-55-4	Chlorobenzene-d5	362000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	170000	13.347			

Raw Data: **VY020111.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBS01	SDG No.:	P4663
Lab Sample ID:	VY1101SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020111.D	1		11/01/24 10:33	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Sample Results: **VY020111.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020111.D
Acq On : 01 Nov 2024 10:33
Operator : SY/MD
Sample : VY1101SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBS01

Manual Integrations APPROVED
Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	224649	50.000	ug/l	#	0.00
34) 1,4-Difluorobenzene	8.616	114	413315	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	362345	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	169895	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	166614	59.425	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.860%				
35) Dibromofluoromethane	7.634	113	148968	56.688	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 113.380%				
50) Toluene-d8	10.109	98	604944	57.834	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 115.660%				
62) 4-Bromofluorobenzene	12.402	95	190261	55.999	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 112.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	43553	20.944	ug/l		97
3) Chloromethane	2.068	50	76113	22.097	ug/l		97
4) Vinyl Chloride	2.202	62	79270	21.437	ug/l		99
5) Bromomethane	2.592	94	52391	21.340	ug/l		96
6) Chloroethane	2.733	64	53086	22.245	ug/l		97
7) Trichlorofluoromethane	3.056	101	100070	22.152	ug/l		99
8) Diethyl Ether	3.458	74	27813	22.075	ug/l		72
9) 1,1,2-Trichlorotrifluo...	3.818	101	53143	20.974	ug/l		90
10) Methyl Iodide	4.007	142	51383	21.005	ug/l	#	90
11) Tert butyl alcohol	4.860	59	20620	102.243	ug/l	#	91
12) 1,1-Dichloroethene	3.787	96	51636	21.300	ug/l		83
13) Acrolein	3.653	56	28586	113.863	ug/l		99
14) Allyl chloride	4.385	41	96060	21.963	ug/l	#	90
15) Acrylonitrile	5.061	53	61498	107.229	ug/l		94
16) Acetone	3.867	43	67421	103.402	ug/l	#	84
17) Carbon Disulfide	4.110	76	169096	20.960	ug/l		100
18) Methyl Acetate	4.379	43	34068	22.269	ug/l	#	89
19) Methyl tert-butyl Ether	5.110	73	134715	22.088	ug/l		97
20) Methylene Chloride	4.616	84	60861	20.778	ug/l	#	83
21) trans-1,2-Dichloroethene	5.110	96	57853	21.160	ug/l		87
22) Diisopropyl ether	6.019	45	206989	22.805	ug/l	#	88
23) Vinyl Acetate	5.958	43	549887	107.653	ug/l	#	91
24) 1,1-Dichloroethane	5.915	63	117253	22.310	ug/l		96
25) 2-Butanone	6.890	43	95334	107.862	ug/l	#	81
26) 2,2-Dichloropropane	6.878	77	92994	21.266	ug/l		93
27) cis-1,2-Dichloroethene	6.890	96	68959	21.942	ug/l		83
28) Bromochloromethane	7.244	49	53021	21.545	ug/l	#	68
29) Tetrahydrofuran	7.262	42	55178	108.176	ug/l	#	82
30) Chloroform	7.421	83	114090	21.876	ug/l		100
31) Cyclohexane	7.701	56	104094	20.459	ug/l		88
32) 1,1,1-Trichloroethane	7.616	97	98057	21.535	ug/l	#	94
36) 1,1-Dichloropropene	7.835	75	84599	20.840	ug/l		94
37) Ethyl Acetate	6.982	43	37423	19.336	ug/l		94
38) Carbon Tetrachloride	7.817	117	82731	20.267	ug/l		99
39) Methylcyclohexane	9.110	83	102064	19.810	ug/l	#	88
40) Benzene	8.079	78	248919	21.008	ug/l		100

Sample Results: **VY020111.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020111.D
Acq On : 01 Nov 2024 10:33
Operator : SY/MD
Sample : VY1101SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	17316	17.861	ug/l		94
42) 1,2-Dichloroethane	8.152	62	69601	21.222	ug/l		95
43) Isopropyl Acetate	8.195	43	79732	21.423	ug/l	#	75
44) Trichloroethene	8.866	130	56824	20.692	ug/l		85
45) 1,2-Dichloropropane	9.140	63	59850	21.112	ug/l		98
46) Dibromomethane	9.231	93	31787	20.694	ug/l		91
47) Bromodichloromethane	9.420	83	87303	21.696	ug/l		99
48) Methyl methacrylate	9.219	41	35245	20.445	ug/l	#	83
49) 1,4-Dioxane	9.231	88	7228	457.054	ug/l	#	92
51) 4-Methyl-2-Pentanone	10.000	43	202015	105.344	ug/l		88
52) Toluene	10.170	92	153958	21.079	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	73069	20.563	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	90424	21.320	ug/l	#	82
55) 1,1,2-Trichloroethane	10.573	97	39841	20.861	ug/l		93
56) Ethyl methacrylate	10.439	69	58231	21.255	ug/l	#	72
57) 1,3-Dichloropropane	10.713	76	74262	21.233	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	137917	102.079	ug/l		92
59) 2-Hexanone	10.762	43	144386	105.021	ug/l		85
60) Dibromochloromethane	10.908	129	51480	21.146	ug/l		98
61) 1,2-Dibromoethane	11.012	107	36801	20.740	ug/l		99
64) Tetrachloroethene	10.646	164	49089	20.518	ug/l		87
65) Chlorobenzene	11.438	112	161689	20.942	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	51494	20.876	ug/l		99
67) Ethyl Benzene	11.518	91	294374	20.397	ug/l		98
68) m/p-Xylenes	11.627	106	219831	41.632	ug/l		92
69) o-Xylene	11.950	106	100601	20.123	ug/l		90
70) Styrene	11.969	104	172290	20.844	ug/l		95
71) Bromoform	12.133	173	25970	20.522	ug/l	#	98
73) Isopropylbenzene	12.255	105	273660	20.163	ug/l		98
74) N-amyl acetate	12.066	43	67912	20.017	ug/l	#	86
75) 1,1,2,2-Tetrachloroethane	12.505	83	47830	20.151	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	40589m	25.486	ug/l		
77) Bromobenzene	12.530	156	56489	20.580	ug/l		84
78) n-propylbenzene	12.591	91	343058	20.310	ug/l		97
79) 2-Chlorotoluene	12.676	91	191589	20.434	ug/l		94
80) 1,3,5-Trimethylbenzene	12.737	105	219147	20.112	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.298	75	14816	20.011	ug/l	#	80
82) 4-Chlorotoluene	12.780	91	198314	20.744	ug/l		96
83) tert-Butylbenzene	12.993	119	198114	20.793	ug/l		95
84) 1,2,4-Trimethylbenzene	13.042	105	221252	20.501	ug/l		95
85) sec-Butylbenzene	13.176	105	297388	20.332	ug/l		97
86) p-Isopropyltoluene	13.292	119	236835	20.178	ug/l		95
87) 1,3-Dichlorobenzene	13.286	146	114852	20.597	ug/l		97
88) 1,4-Dichlorobenzene	13.365	146	114724	20.660	ug/l		95
89) n-Butylbenzene	13.615	91	235328	20.000	ug/l		97
90) Hexachloroethane	13.877	117	46384	19.982	ug/l		82
91) 1,2-Dichlorobenzene	13.657	146	100967	20.832	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	6796	18.879	ug/l		77
93) 1,2,4-Trichlorobenzene	14.919	180	50751	19.492	ug/l		96
94) Hexachlorobutadiene	15.023	225	27042	18.993	ug/l		97
95) Naphthalene	15.145	128	90580	18.611	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	41632	18.837	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020111.D
Acq On : 01 Nov 2024 10:33
Operator : SY/MD
Sample : VY1101SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

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

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

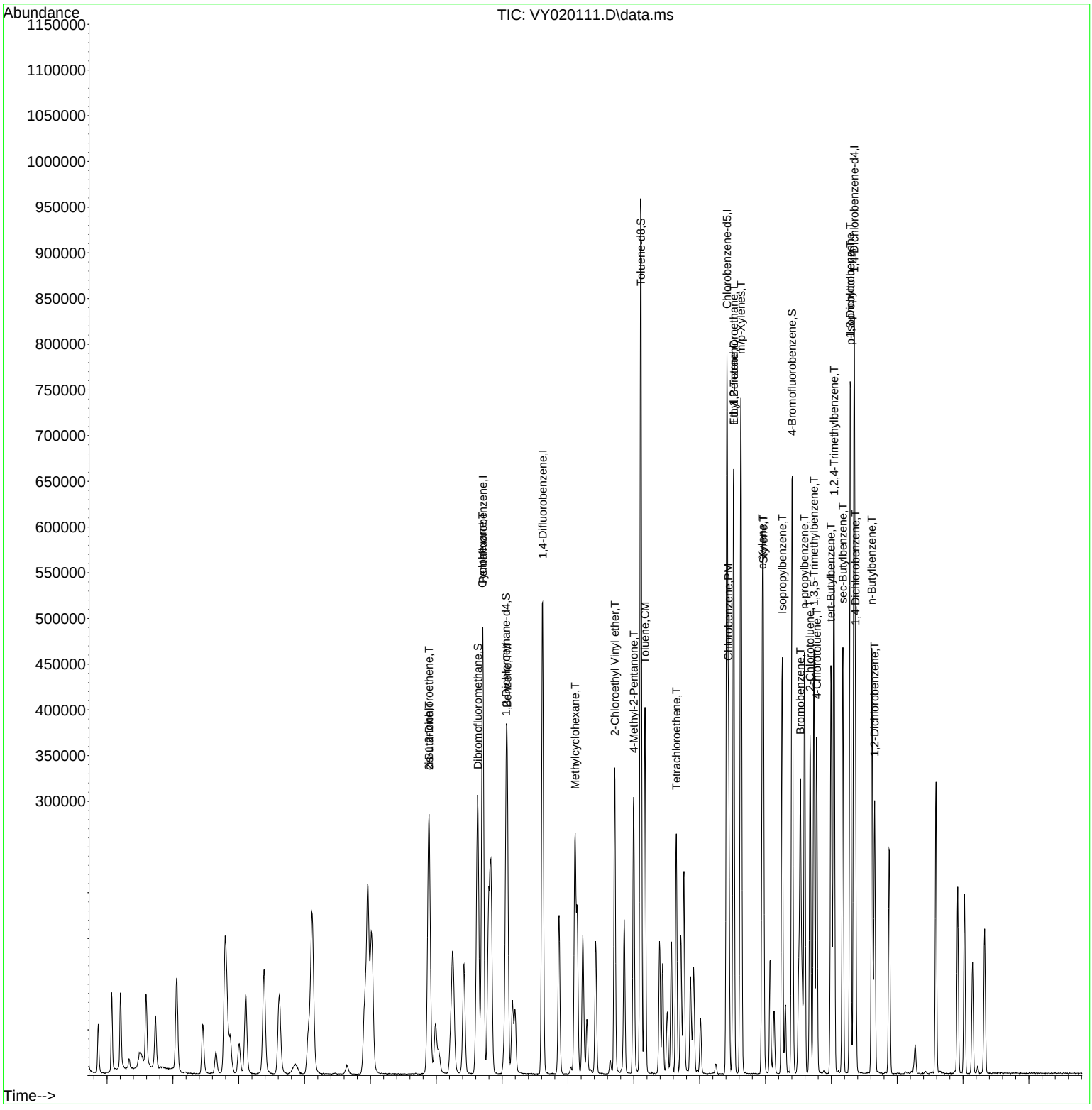
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020111.D
Acq On : 01 Nov 2024 10:33
Operator : SY/MD
Sample : VY1101SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Raw Data: **VY020112.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBSD01	SDG No.:	P4663
Lab Sample ID:	VY1101SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020112.D	1		11/01/24 11:12	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.5		1.70	5.00	ug/Kg
74-87-3	Chloromethane	22.1		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.5		1.00	5.00	ug/Kg
75-00-3	Chloroethane	21.2		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.6		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.5		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.8		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.8		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.0		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	21.9		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.7		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.9		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.1		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	20.4		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.7		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.7		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	20.0		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.6		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.7		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.7		0.87	5.00	ug/Kg
71-43-2	Benzene	21.0		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.0		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.3		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.9		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.1		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	20.9		0.67	5.00	ug/Kg

Raw Data: **VY020112.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBSD01	SDG No.:	P4663
Lab Sample ID:	VY1101SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020112.D	1		11/01/24 11:12	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.0		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.5		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.6		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.9		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.2		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.8		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.4		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.6		0.70	5.00	ug/Kg
100-42-5	Styrene	21.2		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.8		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.9		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.5		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	21.0		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.3		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.9		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.0		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.2		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		70 (50) - 130 (163)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (54) - 130 (147)	103%	SPK: 50
2037-26-5	Toluene-d8	51.5		70 (58) - 130 (134)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.2		70 (29) - 130 (146)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	252000	7.707			
540-36-3	1,4-Difluorobenzene	455000	8.616			
3114-55-4	Chlorobenzene-d5	393000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	182000	13.346			

Raw Data: **VY020112.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBSD01	SDG No.:	P4663
Lab Sample ID:	VY1101SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020112.D	1		11/01/24 11:12	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Sample Results: **VY020112.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020112.D
Acq On : 01 Nov 2024 11:12
Operator : SY/MD
Sample : VY1101SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBSD01

Manual Integrations APPROVED
Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	251864	50.000	ug/l	#	0.00
34) 1,4-Difluorobenzene	8.616	114	454799	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	392733	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	182188	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	164194	52.234	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.460%				
35) Dibromofluoromethane	7.634	113	149298	51.632	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.260%				
50) Toluene-d8	10.103	98	592808	51.504	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.000%				
62) 4-Bromofluorobenzene	12.401	95	191535	51.232	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 102.460%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	47830	20.515	ug/l		96
3) Chloromethane	2.068	50	85457	22.129	ug/l		98
4) Vinyl Chloride	2.208	62	88435	21.331	ug/l		99
5) Bromomethane	2.592	94	56487	20.522	ug/l		97
6) Chloroethane	2.739	64	56823	21.238	ug/l		98
7) Trichlorofluoromethane	3.062	101	109471	21.615	ug/l		99
8) Diethyl Ether	3.464	74	30708	21.739	ug/l		72
9) 1,1,2-Trichlorotrifluo...	3.812	101	61078	21.501	ug/l		89
10) Methyl Iodide	4.007	142	55452	20.219	ug/l		90
11) Tert butyl alcohol	4.854	59	22527	99.629	ug/l	#	80
12) 1,1-Dichloroethene	3.793	96	56492	20.785	ug/l	#	75
13) Acrolein	3.653	56	28044	99.634	ug/l		97
14) Allyl chloride	4.385	41	104832	21.378	ug/l	#	87
15) Acrylonitrile	5.055	53	70794	110.100	ug/l		96
16) Acetone	3.866	43	77256	105.683	ug/l	#	81
17) Carbon Disulfide	4.110	76	188179	20.805	ug/l		98
18) Methyl Acetate	4.385	43	37554	21.895	ug/l	#	86
19) Methyl tert-butyl Ether	5.116	73	143362	20.966	ug/l	#	89
20) Methylene Chloride	4.616	84	64546	19.655	ug/l	#	85
21) trans-1,2-Dichloroethene	5.110	96	64187	20.940	ug/l		87
22) Diisopropyl ether	6.018	45	220719	21.690	ug/l	#	87
23) Vinyl Acetate	5.957	43	608830	106.313	ug/l	#	89
24) 1,1-Dichloroethane	5.915	63	124177	21.074	ug/l		95
25) 2-Butanone	6.890	43	104678	105.636	ug/l	#	81
26) 2,2-Dichloropropane	6.890	77	98522	20.096	ug/l		95
27) cis-1,2-Dichloroethene	6.890	96	73054	20.733	ug/l		80
28) Bromochloromethane	7.244	49	55177	19.998	ug/l	#	70
29) Tetrahydrofuran	7.262	42	63063	110.276	ug/l	#	81
30) Chloroform	7.421	83	126158	21.576	ug/l		97
31) Cyclohexane	7.701	56	116316	20.390	ug/l		91
32) 1,1,1-Trichloroethane	7.616	97	105811	20.727	ug/l	#	91
36) 1,1-Dichloropropene	7.835	75	93074	20.837	ug/l		94
37) Ethyl Acetate	6.982	43	44255	20.780	ug/l		96
38) Carbon Tetrachloride	7.817	117	92914	20.685	ug/l		96
39) Methylcyclohexane	9.109	83	111516	19.670	ug/l	#	85
40) Benzene	8.079	78	273192	20.954	ug/l		99

Sample Results: **VY020112.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020112.D
Acq On : 01 Nov 2024 11:12
Operator : SY/MD
Sample : VY1101SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	25489m	23.893	ug/l		
42) 1,2-Dichloroethane	8.158	62	75857	21.019	ug/l		95
43) Isopropyl Acetate	8.195	43	84516	20.638	ug/l	#	75
44) Trichloroethene	8.866	130	61488	20.348	ug/l		89
45) 1,2-Dichloropropane	9.140	63	65053	20.855	ug/l		98
46) Dibromomethane	9.231	93	34756	20.563	ug/l		89
47) Bromodichloromethane	9.420	83	93390	21.091	ug/l		95
48) Methyl methacrylate	9.219	41	40172	21.178	ug/l	#	80
49) 1,4-Dioxane	9.225	88	7810	448.810	ug/l	#	95
51) 4-Methyl-2-Pentanone	9.999	43	223752	106.036	ug/l		90
52) Toluene	10.170	92	167875	20.888	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	78150	19.987	ug/l		97
54) cis-1,3-Dichloropropene	9.853	75	95813	20.530	ug/l	#	81
55) 1,1,2-Trichloroethane	10.573	97	45298	21.555	ug/l		97
56) Ethyl methacrylate	10.438	69	63053	20.916	ug/l	#	71
57) 1,3-Dichloropropane	10.713	76	80250	20.852	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	146757	98.714	ug/l		92
59) 2-Hexanone	10.762	43	159152	105.202	ug/l		86
60) Dibromochloromethane	10.908	129	56022	20.913	ug/l		99
61) 1,2-Dibromoethane	11.011	107	39474	20.218	ug/l		100
64) Tetrachloroethene	10.646	164	53069	20.466	ug/l		94
65) Chlorobenzene	11.438	112	172657	20.632	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.511	131	55350	20.703	ug/l		98
67) Ethyl Benzene	11.517	91	324663	20.755	ug/l		97
68) m/p-Xylenes	11.627	106	237210	41.447	ug/l		91
69) o-Xylene	11.956	106	111670	20.609	ug/l		91
70) Styrene	11.969	104	189945	21.201	ug/l		95
71) Bromoform	12.133	173	28568	20.828	ug/l	#	96
73) Isopropylbenzene	12.255	105	303557	20.857	ug/l		97
74) N-amyl acetate	12.066	43	75483	20.748	ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	52145	20.486	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	37821m	22.146	ug/l		
77) Bromobenzene	12.529	156	62359	21.186	ug/l		84
78) n-propylbenzene	12.597	91	375651	20.739	ug/l		97
79) 2-Chlorotoluene	12.676	91	209016	20.788	ug/l		94
80) 1,3,5-Trimethylbenzene	12.737	105	242364	20.742	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.304	75	15768	19.859	ug/l	#	84
82) 4-Chlorotoluene	12.779	91	217329	21.199	ug/l		93
83) tert-Butylbenzene	12.999	119	217152	21.253	ug/l		96
84) 1,2,4-Trimethylbenzene	13.042	105	239773	20.718	ug/l		96
85) sec-Butylbenzene	13.176	105	322465	20.558	ug/l		98
86) p-Isopropyltoluene	13.292	119	259203	20.593	ug/l		96
87) 1,3-Dichlorobenzene	13.285	146	123042	20.577	ug/l		95
88) 1,4-Dichlorobenzene	13.365	146	124778	20.954	ug/l		95
89) n-Butylbenzene	13.615	91	257363	20.397	ug/l		97
90) Hexachloroethane	13.883	117	50466	20.273	ug/l		84
91) 1,2-Dichlorobenzene	13.657	146	110759	21.310	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	8060	20.880	ug/l		70
93) 1,2,4-Trichlorobenzene	14.919	180	55968	20.045	ug/l		97
94) Hexachlorobutadiene	15.023	225	29929	19.603	ug/l		98
95) Naphthalene	15.145	128	103880	19.903	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	47837	20.184	ug/l		95

Sample Results: **VY020112.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020112.D
Acq On : 01 Nov 2024 11:12
Operator : SY/MD
Sample : VY1101SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

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

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

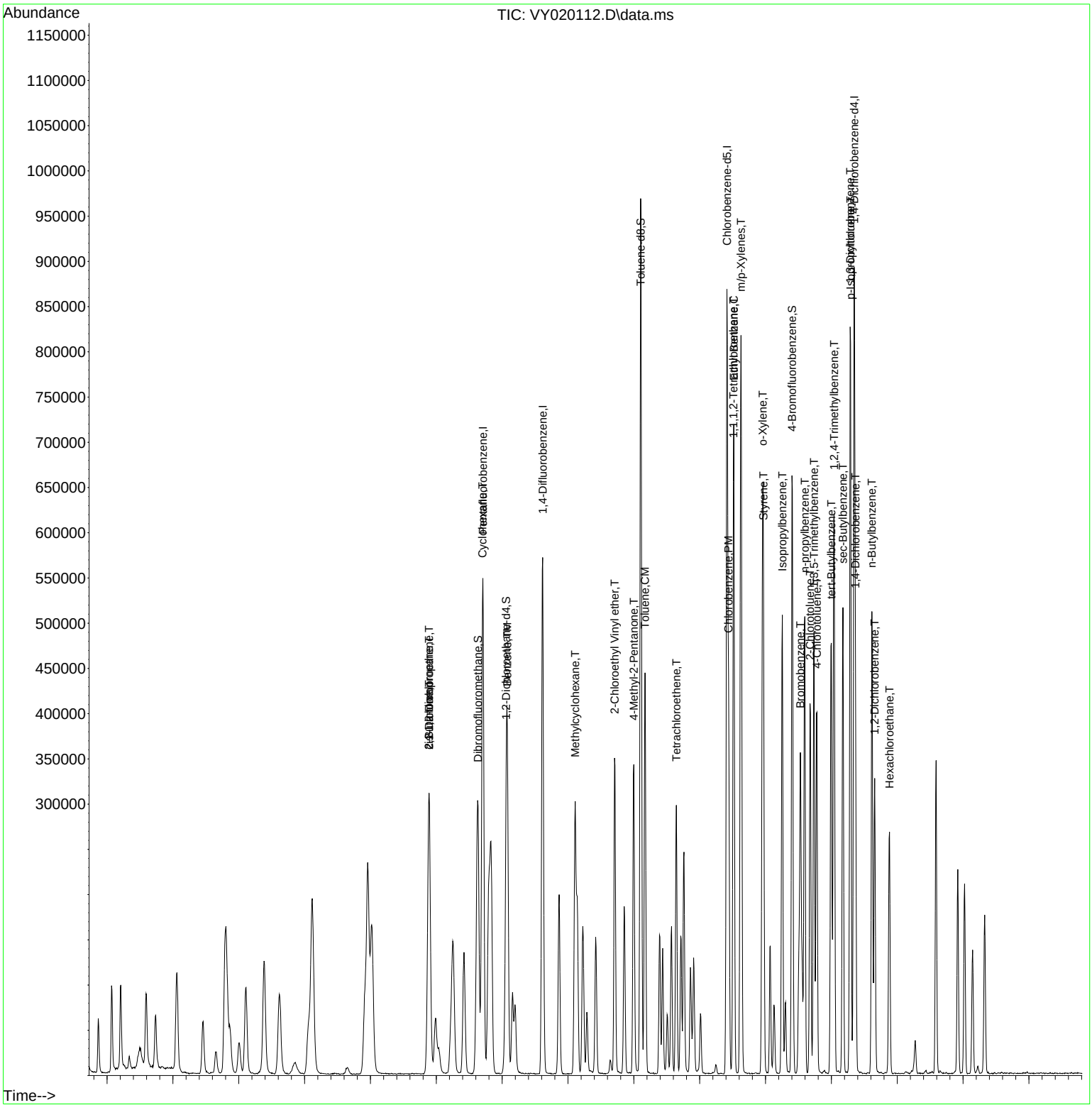
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020112.D
Acq On : 01 Nov 2024 11:12
Operator : SY/MD
Sample : VY1101SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



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

Manual Integration Report

Sequence:	VY103024	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY020075.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:41:29 AM	MMDadoda	11/1/2024 5:33:21 PM	Peak Integrated by Software
VSTDICC005	VY020075.D	Ethyl Acetate	Romaben	11/1/2024 11:41:29 AM	MMDadoda	11/1/2024 5:33:21 PM	Peak Integrated by Software
VSTDICC010	VY020076.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:41:32 AM	MMDadoda	11/1/2024 5:33:22 PM	Peak Integrated by Software
VSTDICC020	VY020077.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:16 AM	MMDadoda	11/1/2024 5:33:23 PM	Peak Integrated by Software
VSTDICCC050	VY020078.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:03 AM	MMDadoda	11/1/2024 5:33:25 PM	Peak Integrated by Software
VSTDICCC050	VY020078.D	Methacrylonitrile	Romaben	11/1/2024 11:42:03 AM	MMDadoda	11/1/2024 5:33:25 PM	Peak Integrated by Software
VSTDICC100	VY020079.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:20 AM	MMDadoda	11/1/2024 5:33:26 PM	Peak Integrated by Software
VSTDICC150	VY020080.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:07 AM	MMDadoda	11/1/2024 5:33:28 PM	Peak Integrated by Software
VSTDICV050	VY020082.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:10 AM	MMDadoda	11/1/2024 5:33:29 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY110124	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020109.D	1,2,3-Trichloropropane	Romaben	11/4/2024 3:49:37 PM	MMDadoda	11/4/2024 5:56:09 PM	Peak Integrated by Software
VY1101SBS01	VY020111.D	1,2,3-Trichloropropane	Romaben	11/4/2024 3:49:33 PM	MMDadoda	11/4/2024 5:56:10 PM	Peak Integrated by Software
VY1101SBSD01	VY020112.D	1,2,3-Trichloropropane	Romaben	11/4/2024 3:49:29 PM	MMDadoda	11/4/2024 5:56:13 PM	Peak Integrated by Software
VY1101SBSD01	VY020112.D	Methacrylonitrile	Romaben	11/4/2024 3:49:29 PM	MMDadoda	11/4/2024 5:56:13 PM	Peak Integrated by Software
VSTDCCC050	VY020131.D	1,2,3-Trichloropropane	Romaben	11/4/2024 3:49:16 PM	MMDadoda	11/4/2024 5:56:22 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY103024

Review By	Mahesh Dadoda	Review On	11/1/2024 5:33:31 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:33:47 PM		
SubDirectory	VY103024	HP Acquire Method		HP Processing Method	82y103024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131199
Initial Calibration Stds	VP131200,VP131201,VP131203,VP131204,VP131205,VP131206
CCC	
Internal Standard/PEM	VP128297
ICV/I.BLK	VP131207
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020074.D	30 Oct 2024 12:07	SY/MD	Ok
2	VSTDICC005	VY020075.D	30 Oct 2024 12:39	SY/MD	Ok,M
3	VSTDICC010	VY020076.D	30 Oct 2024 13:02	SY/MD	Ok,M
4	VSTDICC020	VY020077.D	30 Oct 2024 13:24	SY/MD	Ok,M
5	VSTDICCC050	VY020078.D	30 Oct 2024 14:06	SY/MD	Ok,M
6	VSTDICC100	VY020079.D	30 Oct 2024 14:29	SY/MD	Ok,M
7	VSTDICC150	VY020080.D	30 Oct 2024 14:52	SY/MD	Ok,M
8	VIBLK	VY020081.D	30 Oct 2024 15:15	SY/MD	Ok
9	VSTDICV050	VY020082.D	30 Oct 2024 15:47	SY/MD	Not Ok

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY110124

Review By	Mahesh Dadoda	Review On	11/4/2024 5:56:28 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:59:14 PM		
SubDirectory	VY110124	HP Acquire Method		HP Processing Method	sfamwlm103024sma.m

STD. NAME	STD REF.#
Tune/Reschk	VP131240
Initial Calibration Stds	
CCC	VP131241,VP131242
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	VY020108.D	01 Nov 2024 08:26	SY/MD	Ok
2	VSTDCCC050	VY020109.D	01 Nov 2024 09:02	SY/MD	Ok,M
3	VY1101SBL01	VY020110.D	01 Nov 2024 09:42	SY/MD	Ok
4	VY1101SBS01	VY020111.D	01 Nov 2024 10:33	SY/MD	Ok,M
5	VY1101SBSD01	VY020112.D	01 Nov 2024 11:12	SY/MD	Ok,M
6	P4611-01	VY020113.D	01 Nov 2024 11:35	SY/MD	Ok
7	P4611-04	VY020114.D	01 Nov 2024 11:59	SY/MD	Ok
8	P4611-07	VY020115.D	01 Nov 2024 12:34	SY/MD	Ok
9	P4611-10	VY020116.D	01 Nov 2024 14:00	SY/MD	Ok
10	P4611-13	VY020117.D	01 Nov 2024 14:23	SY/MD	Ok
11	P4611-16	VY020118.D	01 Nov 2024 14:46	SY/MD	Ok
12	P4640-03	VY020119.D	01 Nov 2024 15:10	SY/MD	Ok
13	P4639-01	VY020120.D	01 Nov 2024 15:33	SY/MD	Ok,M
14	P4617-01RE	VY020121.D	01 Nov 2024 15:57	SY/MD	Confirms
15	P4612-03RE	VY020122.D	01 Nov 2024 16:20	SY/MD	Confirms
16	P4613-01	VY020123.D	01 Nov 2024 16:43	SY/MD	Ok
17	P4663-07	VY020124.D	01 Nov 2024 17:07	SY/MD	Ok
18	P4643-03	VY020125.D	01 Nov 2024 17:30	SY/MD	Ok
19	P4643-07	VY020126.D	01 Nov 2024 17:54	SY/MD	Not Ok
20	P4643-11	VY020127.D	01 Nov 2024 18:17	SY/MD	Ok
21	P4663-01	VY020128.D	01 Nov 2024 18:41	SY/MD	Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY110124

Review By	Mahesh Dadoda	Review On	11/4/2024 5:56:28 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:59:14 PM		
SubDirectory	VY110124	HP Acquire Method		HP Processing Method	sfamwlm103024sma.m

STD. NAME	STD REF.#
Tune/Reschk	VP131240
Initial Calibration Stds	
CCC	VP131241,VP131242
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4663-03	VY020129.D	01 Nov 2024 19:04	SY/MD	Ok
23	P4663-05	VY020130.D	01 Nov 2024 19:27	SY/MD	Ok
24	VSTDCCC050	VY020131.D	01 Nov 2024 19:50	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY103024

Review By	Mahesh Dadoda	Review On	11/1/2024 5:33:31 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:33:47 PM		
SubDirectory	VY103024	HP Acquire Method		HP Processing Method	82y103024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131199
Initial Calibration Stds	VP131200,VP131201,VP131203,VP131204,VP131205,VP131206
CCC	
Internal Standard/PEM	VP128297
ICV/I.BLK	VP131207
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020074.D	30 Oct 2024 12:07		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY020075.D	30 Oct 2024 12:39	Method pass	SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY020076.D	30 Oct 2024 13:02		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY020077.D	30 Oct 2024 13:24		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY020078.D	30 Oct 2024 14:06		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY020079.D	30 Oct 2024 14:29		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY020080.D	30 Oct 2024 14:52		SY/MD	Ok,M
8	VIBLK	VIBLK	VY020081.D	30 Oct 2024 15:15		SY/MD	Ok
9	VSTDICV050	ICVVY103024	VY020082.D	30 Oct 2024 15:47	fail icv	SY/MD	Not Ok

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY110124

Review By	Mahesh Dadoda	Review On	11/4/2024 5:56:28 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:59:14 PM		
SubDirectory	VY110124	HP Acquire Method		HP Processing Method	sfamwlm103024sma.m

STD. NAME	STD REF.#
Tune/Reschk	VP131240
Initial Calibration Stds	
CCC	VP131241,VP131242
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020108.D	01 Nov 2024 08:26		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020109.D	01 Nov 2024 09:02		SY/MD	Ok,M
3	VY1101SBL01	VY1101SBL01	VY020110.D	01 Nov 2024 09:42		SY/MD	Ok
4	VY1101SBS01	VY1101SBS01	VY020111.D	01 Nov 2024 10:33		SY/MD	Ok,M
5	VY1101SBSD01	VY1101SBSD01	VY020112.D	01 Nov 2024 11:12		SY/MD	Ok,M
6	P4611-01	TP-1	VY020113.D	01 Nov 2024 11:35	vial-A	SY/MD	Ok
7	P4611-04	TP-2	VY020114.D	01 Nov 2024 11:59	vial-A	SY/MD	Ok
8	P4611-07	TP-3	VY020115.D	01 Nov 2024 12:34	vial-A	SY/MD	Ok
9	P4611-10	TP-4	VY020116.D	01 Nov 2024 14:00	vial-A	SY/MD	Ok
10	P4611-13	TP-5	VY020117.D	01 Nov 2024 14:23	vial-A	SY/MD	Ok
11	P4611-16	TP-6	VY020118.D	01 Nov 2024 14:46	vial-A	SY/MD	Ok
12	P4640-03	MH-3-VOC	VY020119.D	01 Nov 2024 15:10	vial-A	SY/MD	Ok
13	P4639-01	EO-01-103024	VY020120.D	01 Nov 2024 15:33	vial-A	SY/MD	Ok,M
14	P4617-01RE	RO-SOILRE	VY020121.D	01 Nov 2024 15:57	vial-B ISTD Fail	SY/MD	Confirms
15	P4612-03RE	MOO-24-00335RE	VY020122.D	01 Nov 2024 16:20	vial-B ISTD Fail	SY/MD	Confirms
16	P4613-01	ARS20-0001	VY020123.D	01 Nov 2024 16:43	vial-B ISTD Fail	SY/MD	Ok
17	P4663-07	RES-BUILDING-PAD-N	VY020124.D	01 Nov 2024 17:07	vial-A	SY/MD	Ok
18	P4643-03	BP-F9-ADDITIONAL-V	VY020125.D	01 Nov 2024 17:30	vial-A	SY/MD	Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY110124

Review By	Mahesh Dadoda	Review On	11/4/2024 5:56:28 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:59:14 PM		
SubDirectory	VY110124	HP Acquire Method		HP Processing Method	sfamwlm103024sma.m

STD. NAME	STD REF.#
Tune/Reschk	VP131240
Initial Calibration Stds	
CCC	VP131241,VP131242
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4643-07	BP-F8-VOC	VY020126.D	01 Nov 2024 17:54	Not purge vial-A	SY/MD	Not Ok
20	P4643-11	TP-9-VOC	VY020127.D	01 Nov 2024 18:17	vial-A	SY/MD	Ok
21	P4663-01	TENNANT-PAD-2-3-ST	VY020128.D	01 Nov 2024 18:41	vial-A	SY/MD	Ok
22	P4663-03	RES-BUILDING-PAD-N	VY020129.D	01 Nov 2024 19:04	vial-A	SY/MD	Ok
23	P4663-05	RES-BUILDING-PAD-N	VY020130.D	01 Nov 2024 19:27	vial-A	SY/MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VY020131.D	01 Nov 2024 19:50		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133250

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
P4647-01	01A-01B-01C	1	1.00	1.00	2.00	2.00	100.0	caluk
P4658-01	B-131-1-SB02	2	1.16	8.56	9.72	5.57	51.5	
P4658-02	B-131-2-SB02	3	1.15	8.63	9.78	5.91	55.2	
P4658-03	B-131-3-SB02	4	1.14	8.37	9.51	5.83	56.0	
P4659-02	MH-2-EPH	5	1.14	8.59	9.73	8.7	88.0	
P4659-03	MH-2-VOC	6	1.16	8.70	9.86	8.83	88.2	
P4660-02	WC-TA2-01-C	7	1.13	8.76	9.89	8.92	88.9	
P4660-06	WC-WOOD-01-C	8	1.00	1.00	2.00	2.00	100.0	wood chips
P4660-10	WC-CONCRETE-01-C	9	1.14	8.55	9.69	9.03	92.3	
P4660-12	WC-CONCRETE-01-C	10	1.14	8.54	9.68	9.06	92.7	
P4661-01	102824-A	11	1.00	1.00	2.00	2.00	100.0	wipe sample
P4661-02	102824-B	12	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-01	102524-DRIP-A	13	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-02	102524-B	14	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-03	102524-C	15	1.00	1.00	2.00	2.00	100.0	wipe sample
P4663-01	TENNANT-PAD-2-3-STOCKPILE	16	1.14	8.75	9.89	9.1	91.0	
P4663-02	TENNANT-PAD-2-3-STOCKPILE	17	1.16	8.75	9.91	9.11	90.9	
P4663-03	RES-BUILDING-PAD-NO-11	18	1.16	8.74	9.9	9.19	91.9	
P4663-04	RES-BUILDING-PAD-NO-11	19	1.16	8.67	9.83	9.11	91.7	
P4663-05	RES-BUILDING-PAD-NO-3	20	1.15	8.61	9.76	8.94	90.5	
P4663-06	RES-BUILDING-PAD-NO-3	21	1.16	8.64	9.8	9.04	91.2	
P4663-07	RES-BUILDING-PAD-NO-2	22	1.16	8.46	9.62	8.41	85.7	
P4663-08	RES-BUILDING-PAD-NO-2	23	1.17	8.78	9.95	9.19	91.3	
P4667-01	BP-F-6	24	1.16	8.42	9.58	8.66	89.1	
P4667-02	BP-F-6-EPH	25	1.18	8.51	9.69	8.7	88.4	
P4667-03	BP-F-6-VOC	26	1.19	8.65	9.84	8.88	88.9	
P4667-05	BP-F-5	27	1.16	8.51	9.67	8.76	89.3	

PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133250

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
P4667-06	BP-F-5-EPH	28	1.16	8.52	9.68	8.76	89.2	
P4667-07	BP-F-5-VOC	29	1.17	8.64	9.81	8.79	88.2	
P4667-09	BP-F-10	30	1.17	8.78	9.95	8.98	89.0	
P4667-10	BP-F-10-EPH	31	1.17	8.54	9.71	8.84	89.8	
P4667-11	BP-F-10-VOC	32	1.16	8.81	9.97	9.06	89.7	
P4667-13	BP-F-7	33	1.16	8.71	9.87	8.91	89.0	
P4667-14	BP-F-7-EPH	34	1.17	8.44	9.61	8.57	87.7	
P4667-15	BP-F-7-VOC	35	1.18	8.42	9.6	8.72	89.5	
P4672-01	TAPLPR-SED06-103024-00-T2	36	1.19	8.65	9.84	7.71	75.4	
P4672-02	TAPLPR-SED07-103024-00-T2	37	1.19	8.47	9.66	8.48	86.1	
P4672-03	TAPLPR-SED03-103024-00-T2	38	1.19	8.68	9.87	8.31	82.0	
P4672-04	TAPLPR-SED04-103024-00-T2	39	1.19	8.77	9.96	8.77	86.4	
P4672-05	TAPLPR-SED05-103024-00-T2	40	1.18	8.62	9.8	8.41	83.9	
P4675-01	COMP-1	41	1.18	8.56	9.74	7.85	77.9	
P4675-02	COMP-2	42	1.19	8.48	9.67	8.46	85.7	
P4675-03	COMP-3	43	1.19	8.78	9.97	8.99	88.8	
P4675-04	COMP-4	44	1.18	8.71	9.89	8.4	82.9	
P4675-05	COMP-5	45	1.17	8.54	9.71	8.18	82.1	
P4675-06	COMP-6	46	1.17	8.70	9.87	8.24	81.3	
P4677-01	2410-6346	47	1.00	1.00	2.00	2.00	100.0	PAINT CHIPS
P4679-01	MH-1	48	1.18	8.80	9.98	8.98	88.6	
P4679-02	MH-1-EPH	49	1.19	8.58	9.77	8.65	86.9	
P4679-03	MH-1-VOC	50	1.19	8.62	9.81	8.72	87.4	
P4680-01	BP-F26	51	1.18	8.80	9.98	9.08	89.8	
P4680-02	BP-F26-EPH	52	1.18	8.44	9.62	8.71	89.2	
P4680-03	BP-F26-VOC	53	1.19	8.50	9.69	8.75	88.9	

PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133250

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
P4680-05	BP-F25	54	1.18	8.69	9.87	8.9	88.8	
P4680-06	BP-F25-EPH	55	1.19	8.79	9.98	8.91	87.8	
P4680-07	BP-F25-VOC	56	1.18	8.60	9.78	8.86	89.3	

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

WORKLIST(Hardcopy Internal Chain)

LB 183250

WorkList Name : %solid-110124 **WorkList ID :** 185025 **Department :** Wet-Chemistry **Date :** 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4647-01	01A-01B-01C	Solid	Percent Solids	Cool 4 deg C	BSIG01	K61	10/31/2024	Chemtech -SO
P4658-01	B-131-1-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4658-02	B-131-2-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4658-03	B-131-3-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4659-02	MH-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4659-03	MH-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4660-02	WC-TA2-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/30/2024	Chemtech -SO
P4660-06	WC-WOOD-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4660-10	WC-CONCRETE-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4660-12	WC-CONCRETE-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4661-01	102824-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4661-02	102824-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4662-01	102524-DRIP-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4662-02	102524-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4662-03	102524-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4663-01	TENNANT-PAD-2-3-STOCKPIL	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-03	RES-BUILDING-PAD-NO-11	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-04	RES-BUILDING-PAD-NO-11	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-05	RES-BUILDING-PAD-NO-3	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-06	RES-BUILDING-PAD-NO-3	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO

Date/Time 11/01/24 15:20

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 11/01/24 17:20

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %solid-110124 **WorkList ID :** 185025 **Department :** Wet-Chemistry **Date :** 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4663-07	RES-BUILDING-PAD-NO-2	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-08	RES-BUILDING-PAD-NO-2	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4667-01	BP-F-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-02	BP-F-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-03	BP-F-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-05	BP-F-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-06	BP-F-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-07	BP-F-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-09	BP-F-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-10	BP-F-10-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-11	BP-F-10-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-13	BP-F-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-14	BP-F-7-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-15	BP-F-7-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4672-01	TAPLPR-SED06-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-02	TAPLPR-SED07-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-03	TAPLPR-SED03-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-04	TAPLPR-SED04-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-05	TAPLPR-SED05-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4675-01	COMP-1	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-02	COMP-2	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO

Date/Time 11/01/2024 ~~14:00~~ 15:30

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 11/01/2024 ~~15:30~~ 17:20

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %solid-110124 **WorkList ID :** 185025 **Department :** Wet-Chemistry **Date :** 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4675-03	COMP-3	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-04	COMP-4	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-05	COMP-5	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-06	COMP-6	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4677-01	2410-6346	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-01	MH-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-02	MH-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-03	MH-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4680-01	BP-F26	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-02	BP-F26-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-03	BP-F26-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-05	BP-F25	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-06	BP-F25-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-07	BP-F25-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO

Date/Time 11/01/24 15:30

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

17:30

Date/Time 11/01/24 ~~15:30~~

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO. QUOTE NO. P4663
COC Number 2042152

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Union Paving & Construction Co
ADDRESS: 891 RT 10 E
CITY Whippany STATE: NJ ZIP:
ATTENTION: Gregory B
PHONE: FAX:

CLIENT PROJECT INFORMATION

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

CLIENT BILLING INFORMATION

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

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

ANALYSIS

1 Clean fill VOCs 2 3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (E)	PRESERVATIVES 2 (E)	3	4	5	6	7	8	9	COMMENTS
1.	Tennant Pad 2/3 stockpile	SOL	X		103124	1245	4	X									
2.	Tennant Pad 2/3 stock pile			X		1250	4		X								0.0 ppm
3.	Res Building Pad No. 11		X			1300	4	X									
4.	Res Building Pad No. 11			X		1304	4		X								0.0 ppm
5.	Res Building Pad No. 3		X			1320	4	X									
6.	Res Building Pad No. 3			X		1326	4		X								0.0 ppm
7.	Res Building Pad No. 2		X			1335	4	X									
8.	Res Building Pad No. 2			X		1339	4		X								0.0 ppm
9.																	
10.																	

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

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	10-31-24 1355	1.
2.		2.
3.	10-31-24 1645	3.

Conditions of bottles or coolers at receipt: ✓ COMPLIANT ❑ NON COMPLIANT ✓ COOLER TEMP 2.3 °C
Comments: PID Calibration 10-31-24

Page 1 of 1

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

Shipment Complete ✓ YES ❑ NO

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

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

Project Name: Union Paving & Construction Co
Service Order #:
Work Order #:
Labor WBS #:
Facility/Site:
Site Address: 891 RT 10 E Whippany, NJ

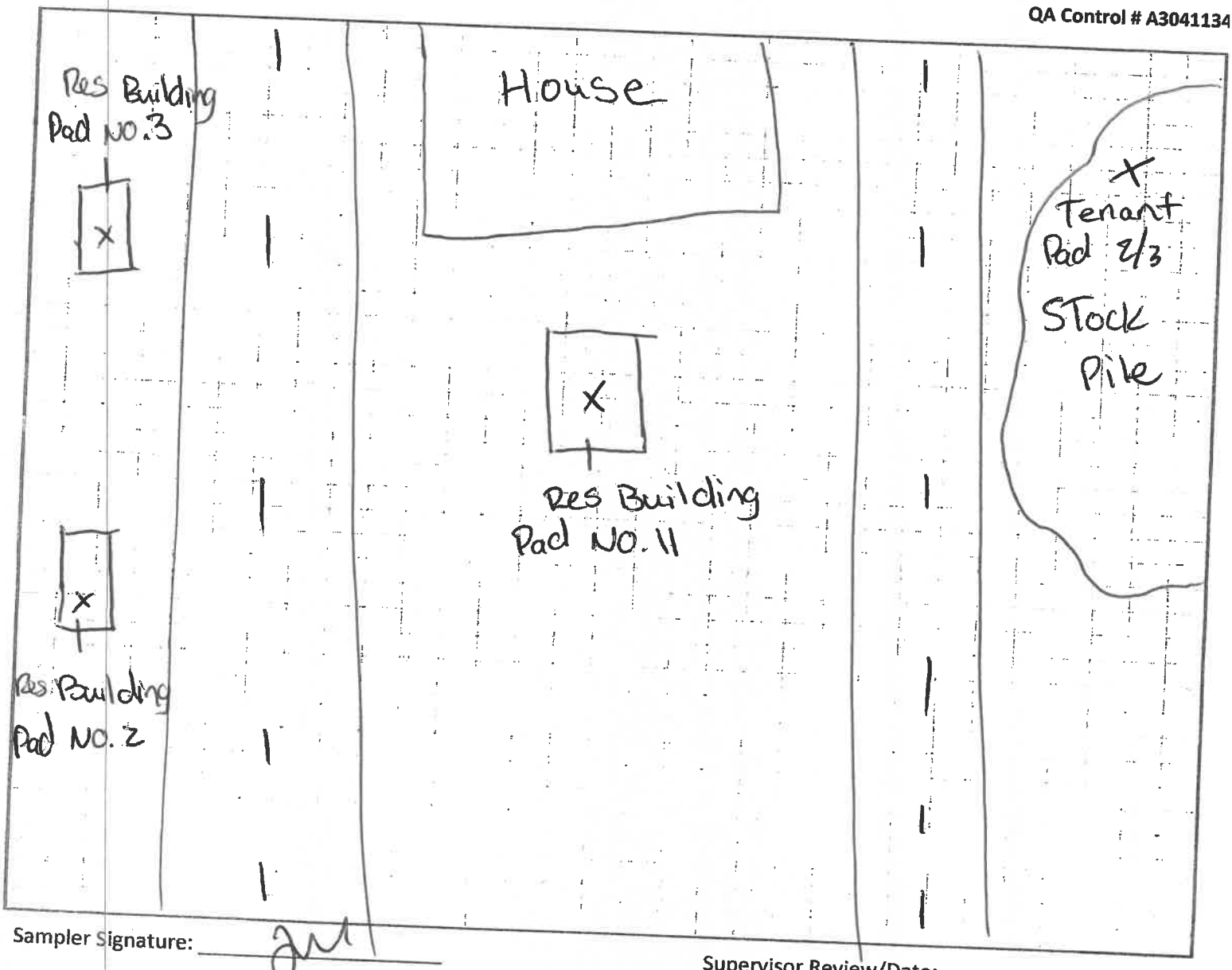
Chemtech Order ID:
Sampler Name: Jeremy M
Client Project Coordinator & Phone: Gregory B
Page #: 1 of 1
Date: 10-31-24
Arrive Time: 1230
Depart Time: 1355

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

Collection Depths: 1 foot - 2 feet
Dimensions/CY: N/A
Temp (range): 2.3 °C
PID Readings (range): PPM
Odor: Y (N)
Color: Y (N)
Sample Description: Brown Rocky Soil.
Field Observations: 4 Spots, (1) Excavation Stockpile (3) Test pits.

Grid/Area Composite Map:

QA Control # A3041134



Sampler Signature: JM
Client Signature:
Supervisor Review/Date:
Date/Time Arrived at Lab:

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

Laboratory Certification

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

Alliance TECHNICAL GROUP

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4663 UNIO02
Client Name : Union Paving & Constructi
Client Contact : Gregory Butler
Invoice Name : Union Paving & Constructi
Invoice Contact : Gregory Butler

Order Date : 10/31/2024 3:05:00 PM
Project Name : Rt. 10 Whippany
Receive DateTime : 10/31/2024 ~~12:00:00 AM~~ 16:45
Purchase Order :

Project Mgr :
Report Type : Level 3
EDD Type : Excel NJ
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4663-01	TENNANT-PAD-2-3-STOCKPILE	Solid	10/31/2024	12:45					
					VOCMS Group1		8260D		3 Bus. Days
P4663-03	RES-BUILDING-PAD-NO-11	Solid	10/31/2024	13:00					
					VOCMS Group1		8260D		3 Bus. Days
P4663-05	RES-BUILDING-PAD-NO-3	Solid	10/31/2024	13:20					
					VOCMS Group1		8260D		3 Bus. Days
P4663-07	RES-BUILDING-PAD-NO-2	Solid	10/31/2024	13:35					
					VOCMS Group1		8260D		3 Bus. Days

Relinguished By :
Date / Time : 10-31-24 1710

Left inside SM fridge

Received By :
Date / Time : 11/01/24 12:00

Storage Area : VOA Refridgerator Room