

DATA REPORTING QUALIFIERS- ORGANIC

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

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

LAB CHRONICLE

OrderID: Q3586
Client: Remington & Vernick Engineers
Contact: Kyle Carlson

OrderDate: 11/7/2025 3:20:00 PM
Project: Edison Landfill
Location: D31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3586-01	SED-1	SOIL	VOC-TCLVOA-10	8260D	11/06/25		11/11/25	11/07/25
Q3586-01RE	SED-1RE	SOIL	VOC-TCLVOA-10	8260D	11/06/25		11/12/25	11/07/25
Q3586-02	SED-2	SOIL	VOC-TCLVOA-10	8260D	11/06/25		11/11/25	11/07/25
Q3586-02RE	SED-2RE	SOIL	VOC-TCLVOA-10	8260D	11/06/25		11/12/25	11/07/25
Q3586-03	SED-3	SOIL	VOC-TCLVOA-10	8260D	11/06/25		11/12/25	11/07/25

Hit Summary Sheet
SW-846

SDG No.: Q3586
Client: Remington & Vernick Engineers

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SED-1							
Q3586-01	SED-1	SOIL	Acetone	29.8		4.60	24.5	ug/Kg
Q3586-01	SED-1	SOIL	Carbon Disulfide	7.20		1.00	4.90	ug/Kg
Q3586-01	SED-1	SOIL	Methylene Chloride	12.4		3.50	9.80	ug/Kg
			Total Voc :			49.4		
Q3586-01	SED-1	SOIL	Tetrahydrofuran	* 7.10	J	4.60	24.5	ug/Kg
Q3586-01	SED-1	SOIL	Tert butyl alcohol	* 29.8	J	13.4	24.5	ug/Kg
Q3586-01	SED-1	SOIL	Diethyl Ether	* 12.1	J	0.75	4.90	ug/Kg
Q3586-01	SED-1	SOIL	Diisopropyl ether	* 15.8	J	0.54	4.90	ug/Kg
			Total Tics :			64.8		
			Total Concentration:			114		
Client ID:	SED-1RE							
Q3586-01RE	SED-1RE	SOIL	Acetone	11.8	J	4.80	25.5	ug/Kg
Q3586-01RE	SED-1RE	SOIL	Carbon Disulfide	3.50	J	1.10	5.10	ug/Kg
Q3586-01RE	SED-1RE	SOIL	Methylene Chloride	5.10	J	3.60	10.2	ug/Kg
			Total Voc :			20.4		
			Total Concentration:			20.4		
Client ID:	SED-2							
Q3586-02	SED-2	SOIL	Acetone	160		7.50	39.4	ug/Kg
Q3586-02	SED-2	SOIL	Carbon Disulfide	2.90	J	1.70	7.90	ug/Kg
Q3586-02	SED-2	SOIL	Methylene Chloride	10.6	J	5.60	15.8	ug/Kg
Q3586-02	SED-2	SOIL	2-Butanone	52.6		10.3	39.4	ug/Kg
			Total Voc :			226		
Q3586-02	SED-2	SOIL	1-Phenyl-1-butene	* 38.8	J	0	0	ug/Kg
Q3586-02	SED-2	SOIL	1H-Indene, 2,3-dihydro-1,1,3-ti	* 21.1	J	0	0	ug/Kg
Q3586-02	SED-2	SOIL	Naphthalene, 1,2,3,4-tetrahydc	* 28.8	J	0	0	ug/Kg
Q3586-02	SED-2	SOIL	Naphthalene, 1,2,3,4-tetrahydc	* 20.9	J	0	0	ug/Kg
Q3586-02	SED-2	SOIL	Naphthalene, 1,2,3,4-tetrahydc	* 51.8	J	0	0	ug/Kg
Q3586-02	SED-2	SOIL	1H-Indene, 2,3-dihydro-4,7-din	* 21.2	J	0	0	ug/Kg
Q3586-02	SED-2	SOIL	1,2,4-Trimethylbenzene	* 2.10	J	1.00	7.90	ug/Kg
			Total Tics :			185		
			Total Concentration:			411		
Client ID:	SED-2RE							
Q3586-02RE	SED-2RE	SOIL	Acetone	120		6.80	35.6	ug/Kg
Q3586-02RE	SED-2RE	SOIL	2-Butanone	34.8	J	9.30	35.6	ug/Kg
			Total Voc :			155		
			Total Concentration:			155		
Client ID:	SED-3							
Q3586-03	SED-3	SOIL	Acetone	24.0	J	7.20	38.0	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: Q3586

Client: Remington & Vernick Engineers

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3586-03	SED-3	SOIL	Carbon Disulfide	5.50	J	1.60	7.60	ug/Kg
			Total Voc :			29.5		
Q3586-03	SED-3	SOIL	Undecane	* 10.0	J	0	0	ug/Kg
			Total Tics :			10.0		
			Total Concentration:			39.5		



QC SUMMARY

Surrogate Summary

SDG No.: **Q3586**

Client: **Remington & Vernick Engineers**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3586-01	SED-1	1,2-Dichloroethane-d4	50	69.0	138	*	70 (63)	130 (155)
		Dibromofluoromethane	50	57.4	115		70 (70)	130 (134)
		Toluene-d8	50	58.2	116		70 (74)	130 (123)
		4-Bromofluorobenzene	50	98.6	197	*	70 (52)	130 (138)
Q3586-01RE	SED-1RE	1,2-Dichloroethane-d4	50	36.5	73		70 (63)	130 (155)
		Dibromofluoromethane	50	46.8	94		70 (70)	130 (134)
		Toluene-d8	50	49.3	99		70 (74)	130 (123)
		4-Bromofluorobenzene	50	33.6	67	*	70 (52)	130 (138)
Q3586-02	SED-2	1,2-Dichloroethane-d4	50	80.6	161	*	70 (63)	130 (155)
		Dibromofluoromethane	50	64.7	129		70 (70)	130 (134)
		Toluene-d8	50	62.1	124		70 (74)	130 (123)
		4-Bromofluorobenzene	50	67.6	135	*	70 (52)	130 (138)
Q3586-02RE	SED-2RE	1,2-Dichloroethane-d4	50	88.5	177	*	70 (63)	130 (155)
		Dibromofluoromethane	50	66.4	133	*	70 (70)	130 (134)
		Toluene-d8	50	49.0	98		70 (74)	130 (123)
		4-Bromofluorobenzene	50	47.0	94		70 (52)	130 (138)
Q3586-03	SED-3	1,2-Dichloroethane-d4	50	62.1	124		70 (63)	130 (155)
		Dibromofluoromethane	50	52.5	105		70 (70)	130 (134)
		Toluene-d8	50	48.6	97		70 (74)	130 (123)
		4-Bromofluorobenzene	50	46.0	92		70 (52)	130 (138)
VW1111SBL01	VW1111SBL01	1,2-Dichloroethane-d4	50	60.2	120		70 (63)	130 (155)
		Dibromofluoromethane	50	55.1	110		70 (70)	130 (134)
		Toluene-d8	50	53.1	106		70 (74)	130 (123)
		4-Bromofluorobenzene	50	57.3	115		70 (52)	130 (138)
VW1111SBS01	VW1111SBS01	1,2-Dichloroethane-d4	50	48.5	97		70 (63)	130 (155)
		Dibromofluoromethane	50	49.5	99		70 (70)	130 (134)
		Toluene-d8	50	51.3	103		70 (74)	130 (123)
		4-Bromofluorobenzene	50	50.5	101		70 (52)	130 (138)
VW1111SBSD0	VW1111SBSD01	1,2-Dichloroethane-d4	50	50.6	101		70 (63)	130 (155)
		Dibromofluoromethane	50	47.1	94		70 (70)	130 (134)
		Toluene-d8	50	48.0	96		70 (74)	130 (123)
		4-Bromofluorobenzene	50	46.6	93		70 (52)	130 (138)
VY1112SBL01	VY1112SBL01	1,2-Dichloroethane-d4	50	57.4	115		70 (63)	130 (155)
		Dibromofluoromethane	50	51.1	102		70 (70)	130 (134)
		Toluene-d8	50	48.1	96		70 (74)	130 (123)
		4-Bromofluorobenzene	50	42.4	85		70 (52)	130 (138)
VY1112SBS01	VY1112SBS01	1,2-Dichloroethane-d4	50	49.4	99		70 (63)	130 (155)
		Dibromofluoromethane	50	50.6	101		70 (70)	130 (134)
		Toluene-d8	50	51.3	103		70 (74)	130 (123)
		4-Bromofluorobenzene	50	51.8	104		70 (52)	130 (138)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q3586	Analytical Method:	SW8260D
Client:	Remington & Vernick Engineers	Datafile :	VW032417.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1111SBS01	Dichlorodifluoromethane	20	18.7	ug/Kg	94			40 (64)	160 (136)	
	Chloromethane	20	20.7	ug/Kg	104			40 (73)	160 (129)	
	Vinyl chloride	20	21.0	ug/Kg	105			70 (73)	130 (133)	
	Bromomethane	20	20.9	ug/Kg	104			40 (77)	160 (137)	
	Chloroethane	20	20.5	ug/Kg	103			40 (69)	160 (130)	
	Trichlorofluoromethane	20	18.3	ug/Kg	92			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.3	ug/Kg	106			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 (174)	
	Carbon disulfide	20	20.3	ug/Kg	102			40 (73)	160 (125)	
	Methyl tert-butyl Ether	20	19.5	ug/Kg	98			70 (77)	130 (129)	
	Methyl Acetate	20	17.2	ug/Kg	86			70 (51)	130 (140)	
	Methylene Chloride	20	19.2	ug/Kg	96			70 (54)	130 (158)	
	trans-1,2-Dichloroethene	20	20.1	ug/Kg	101			70 (80)	130 (123)	
	1,1-Dichloroethane	20	20.6	ug/Kg	103			70 (82)	130 (123)	
	Cyclohexane	20	20.8	ug/Kg	104			70 (76)	130 (122)	
	2-Butanone	100	90.4	ug/Kg	90			40 (69)	160 (131)	
	Carbon Tetrachloride	20	21.2	ug/Kg	106			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.2	ug/Kg	101			70 (82)	130 (123)	
	Bromochloromethane	20	19.4	ug/Kg	97			70 (80)	130 (127)	
	Chloroform	20	20.7	ug/Kg	104			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.8	ug/Kg	104			70 (80)	130 (126)	
	Methylcyclohexane	20	20.8	ug/Kg	104			70 (77)	130 (123)	
	Benzene	20	20.9	ug/Kg	104			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.2	ug/Kg	101			70 (81)	130 (126)	
	Trichloroethene	20	20.3	ug/Kg	102			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.6	ug/Kg	103			70 (83)	130 (122)	
	Bromodichloromethane	20	20.2	ug/Kg	101			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	92.1	ug/Kg	92			40 (70)	160 (135)	
	Toluene	20	21.2	ug/Kg	106			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.5	ug/Kg	98			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.2	ug/Kg	101			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.0	ug/Kg	100			70 (82)	130 (125)	
	2-Hexanone	100	91.7	ug/Kg	92			40 (66)	160 (138)	
	Dibromochloromethane	20	19.2	ug/Kg	96			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.5	ug/Kg	98			70 (80)	130 (125)	
	Tetrachloroethene	20	21.3	ug/Kg	106			70 (83)	130 (125)	
	Chlorobenzene	20	20.7	ug/Kg	104			70 (84)	130 (122)	
	Ethyl Benzene	20	20.5	ug/Kg	103			70 (82)	130 (124)	
	m/p-Xylenes	40	41.8	ug/Kg	104			70 (83)	130 (124)	
	o-Xylene	20	20.0	ug/Kg	100			70 (83)	130 (123)	
	Styrene	20	20.9	ug/Kg	104			70 (82)	130 (124)	
	Bromoform	20	18.1	ug/Kg	91			70 (75)	130 (127)	
	Isopropylbenzene	20	20.7	ug/Kg	104			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	19.3	ug/Kg	97			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	22.1	ug/Kg	111			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.8	ug/Kg	104			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.9	ug/Kg	100			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3586</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Remington & Vernick Engineers</u>	Datafile :	<u>VW032417.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1111SBS01	1,2-Dibromo-3-Chloropropane	20	17.8	ug/Kg	89			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	20.5	ug/Kg	103			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.3	ug/Kg	97			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q3586	Analytical Method:	SW8260D
Client:	Remington & Vernick Engineers	Datafile :	VW032418.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1111SBSD01	Dichlorodifluoromethane	20	17.2	ug/Kg	86	9		40 (64)	160 (136)	30 (20)
	Chloromethane	20	20.5	ug/Kg	103	1		40 (73)	160 (129)	30 (15)
	Vinyl chloride	20	20.3	ug/Kg	102	3		70 (73)	130 (133)	30 (15)
	Bromomethane	20	21.1	ug/Kg	106	2		40 (77)	160 (137)	30 (15)
	Chloroethane	20	20.5	ug/Kg	103	0		40 (69)	160 (130)	30 (15)
	Trichlorofluoromethane	20	20.2	ug/Kg	101	9		40 (69)	160 (134)	30 (27)
	1,1,2-Trichlorotrifluoroethane	20	20.1	ug/Kg	101	5		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	20.3	ug/Kg	102	4		70 (79)	130 (121)	30 (16)
	Acetone	100	110	ug/Kg	110	10		40 (60)	160 (174)	30 (28)
	Carbon disulfide	20	20.6	ug/Kg	103	1		40 (73)	160 (125)	30 (15)
	Methyl tert-butyl Ether	20	20.8	ug/Kg	104	6		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	19.7	ug/Kg	99	14		70 (51)	130 (140)	30 (30)
	Methylene Chloride	20	19.5	ug/Kg	98	2		70 (54)	130 (158)	30 (20)
	trans-1,2-Dichloroethene	20	20.4	ug/Kg	102	1		70 (80)	130 (123)	30 (15)
	1,1-Dichloroethane	20	20.6	ug/Kg	103	0		70 (82)	130 (123)	30 (15)
	Cyclohexane	20	20.0	ug/Kg	100	4		70 (76)	130 (122)	30 (15)
	2-Butanone	100	110	ug/Kg	110	20		40 (69)	160 (131)	30 (29)
	Carbon Tetrachloride	20	19.9	ug/Kg	100	6		70 (76)	130 (129)	30 (15)
	cis-1,2-Dichloroethene	20	20.4	ug/Kg	102	1		70 (82)	130 (123)	30 (15)
	Bromochloromethane	20	20.5	ug/Kg	103	6		70 (80)	130 (127)	30 (15)
	Chloroform	20	21.0	ug/Kg	105	1		70 (82)	130 (125)	30 (15)
	1,1,1-Trichloroethane	20	21.0	ug/Kg	105	1		70 (80)	130 (126)	30 (15)
	Methylcyclohexane	20	19.4	ug/Kg	97	7		70 (77)	130 (123)	30 (15)
	Benzene	20	19.7	ug/Kg	99	5		70 (84)	130 (121)	30 (15)
	1,2-Dichloroethane	20	19.9	ug/Kg	100	1		70 (81)	130 (126)	30 (15)
	Trichloroethene	20	19.5	ug/Kg	98	4		70 (83)	130 (122)	30 (15)
	1,2-Dichloropropane	20	19.7	ug/Kg	99	4		70 (83)	130 (122)	30 (15)
	Bromodichloromethane	20	20.0	ug/Kg	100	1		70 (82)	130 (123)	30 (15)
	4-Methyl-2-Pentanone	100	100	ug/Kg	100	8		40 (70)	160 (135)	30 (26)
	Toluene	20	19.8	ug/Kg	99	7		70 (83)	130 (122)	30 (15)
	t-1,3-Dichloropropene	20	19.4	ug/Kg	97	1		70 (78)	130 (124)	30 (15)
	cis-1,3-Dichloropropene	20	19.5	ug/Kg	98	3		70 (81)	130 (122)	30 (15)
	1,1,2-Trichloroethane	20	20.1	ug/Kg	101	1		70 (82)	130 (125)	30 (15)
	2-Hexanone	100	100	ug/Kg	100	8		40 (66)	160 (138)	30 (27)
	Dibromochloromethane	20	19.7	ug/Kg	99	3		70 (79)	130 (125)	30 (15)
	1,2-Dibromoethane	20	19.8	ug/Kg	99	1		70 (80)	130 (125)	30 (16)
	Tetrachloroethene	20	20.5	ug/Kg	103	3		70 (83)	130 (125)	30 (15)
	Chlorobenzene	20	19.7	ug/Kg	99	5		70 (84)	130 (122)	30 (15)
	Ethyl Benzene	20	20.1	ug/Kg	101	2		70 (82)	130 (124)	30 (15)
	m/p-Xylenes	40	41.0	ug/Kg	103	1		70 (83)	130 (124)	30 (15)
	o-Xylene	20	20.0	ug/Kg	100	0		70 (83)	130 (123)	30 (15)
	Styrene	20	19.7	ug/Kg	99	5		70 (82)	130 (124)	30 (15)
	Bromoform	20	19.5	ug/Kg	98	7		70 (75)	130 (127)	30 (16)
	Isopropylbenzene	20	20.4	ug/Kg	102	2		70 (82)	130 (124)	30 (15)
	1,1,2,2-Tetrachloroethane	20	20.6	ug/Kg	103	6		70 (77)	130 (127)	30 (21)
	1,3-Dichlorobenzene	20	20.8	ug/Kg	104	7		70 (83)	130 (122)	30 (15)
	1,4-Dichlorobenzene	20	20.6	ug/Kg	103	1		70 (84)	130 (121)	30 (15)
	1,2-Dichlorobenzene	20	20.9	ug/Kg	104	4		70 (83)	130 (124)	30 (15)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3586</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Remington & Vernick Engineers</u>	Datafile :	<u>VW032418.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1111SBSD01	1,2-Dibromo-3-Chloropropane	20	20.4	ug/Kg	102	14		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	20.0	ug/Kg	100	3		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	20.3	ug/Kg	102	5		70 (70)	130 (137)	30 (16)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q3586	Analytical Method:	SW8260D
Client:	Remington & Vernick Engineers	Datafile :	VY023754.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1112SBS01	Dichlorodifluoromethane	20	21.2	ug/Kg	106			40 (64)	160 (136)	
	Chloromethane	20	19.0	ug/Kg	95			40 (73)	160 (129)	
	Vinyl chloride	20	19.3	ug/Kg	97			70 (73)	130 (133)	
	Bromomethane	20	20.1	ug/Kg	101			40 (77)	160 (137)	
	Chloroethane	20	19.2	ug/Kg	96			40 (69)	160 (130)	
	Trichlorofluoromethane	20	21.0	ug/Kg	105			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.5	ug/Kg	103			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.7	ug/Kg	99			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (174)	
	Carbon disulfide	20	19.7	ug/Kg	99			40 (73)	160 (125)	
	Methyl tert-butyl Ether	20	19.7	ug/Kg	99			70 (77)	130 (129)	
	Methyl Acetate	20	15.6	ug/Kg	78			70 (51)	130 (140)	
	Methylene Chloride	20	20.2	ug/Kg	101			70 (54)	130 (158)	
	trans-1,2-Dichloroethene	20	19.7	ug/Kg	99			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.9	ug/Kg	100			70 (82)	130 (123)	
	Cyclohexane	20	19.8	ug/Kg	99			70 (76)	130 (122)	
	2-Butanone	100	110	ug/Kg	110			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.4	ug/Kg	102			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.6	ug/Kg	98			70 (82)	130 (123)	
	Bromochloromethane	20	20.2	ug/Kg	101			70 (80)	130 (127)	
	Chloroform	20	19.6	ug/Kg	98			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.1	ug/Kg	101			70 (80)	130 (126)	
	Methylcyclohexane	20	20.0	ug/Kg	100			70 (77)	130 (123)	
	Benzene	20	20.1	ug/Kg	101			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.3	ug/Kg	102			70 (81)	130 (126)	
	Trichloroethene	20	20.1	ug/Kg	101			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.7	ug/Kg	99			70 (83)	130 (122)	
	Bromodichloromethane	20	20.3	ug/Kg	102			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			40 (70)	160 (135)	
	Toluene	20	20.6	ug/Kg	103			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.9	ug/Kg	100			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.0	ug/Kg	100			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	19.8	ug/Kg	99			70 (82)	130 (125)	
	2-Hexanone	100	110	ug/Kg	110			40 (66)	160 (138)	
	Dibromochloromethane	20	20.1	ug/Kg	101			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.1	ug/Kg	101			70 (80)	130 (125)	
	Tetrachloroethene	20	20.0	ug/Kg	100			70 (83)	130 (125)	
	Chlorobenzene	20	19.9	ug/Kg	100			70 (84)	130 (122)	
	Ethyl Benzene	20	20.2	ug/Kg	101			70 (82)	130 (124)	
	m/p-Xylenes	40	41.0	ug/Kg	103			70 (83)	130 (124)	
	o-Xylene	20	19.8	ug/Kg	99			70 (83)	130 (123)	
	Styrene	20	20.1	ug/Kg	101			70 (82)	130 (124)	
	Bromoform	20	20.4	ug/Kg	102			70 (75)	130 (127)	
	Isopropylbenzene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	19.7	ug/Kg	99			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.4	ug/Kg	97			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.6	ug/Kg	98			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.6	ug/Kg	98			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3586</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Remington & Vernick Engineers</u>	Datafile :	<u>VY023754.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1112SBS01	1,2-Dibromo-3-Chloropropane	20	18.3	ug/Kg	92			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.7	ug/Kg	94			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95			70 (70)	130 (137)	

VOLATILE METHOD BLANK SUMMARY

Client ID

VW1111SBL01

Lab Name: Alliance

Contract: REMI02

Lab Code: ACE

SDG NO.: Q3586

Lab File ID: VW032416.D

Lab Sample ID: VW1111SBL01

Date Analyzed: 11/11/2025

Time Analyzed: 09:34

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_W

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VW1111SBS01	VW1111SBS01	VW032417.D	11/11/2025
VW1111SBSD01	VW1111SBSD01	VW032418.D	11/11/2025
SED-1	Q3586-01	VW032427.D	11/11/2025
SED-2	Q3586-02	VW032428.D	11/11/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VY1112SBL01

Lab Name: Alliance

Contract: REMI02

Lab Code: ACE

SDG NO.: Q3586

Lab File ID: VY023753.D

Lab Sample ID: VY1112SBL01

Date Analyzed: 11/12/2025

Time Analyzed: 10:37

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
VY1112SBS01	VY1112SBS01	VY023754.D	11/12/2025
SED-1RE	Q3586-01RE	VY023759.D	11/12/2025
SED-2RE	Q3586-02RE	VY023760.D	11/12/2025
SED-3	Q3586-03	VY023761.D	11/12/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: REMI02

Lab Code: ACE

SDG NO.: Q3586

Lab File ID: VW032405.D

BFB Injection Date: 11/10/2025

Instrument ID: MSVOA_W

BFB Injection Time: 14:20

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

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.7
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	67.1
175	5.0 - 9.0% of mass 174	5.1 (7.6) 1
176	95.0 - 101.0% of mass 174	66.1 (98.5) 1
177	5.0 - 9.0% of mass 176	4.1 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VW032406.D	11/10/2025	15:11
VSTDIC010	VSTDIC010	VW032407.D	11/10/2025	15:33
VSTDIC020	VSTDIC020	VW032408.D	11/10/2025	15:55
VSTDIC050	VSTDIC050	VW032409.D	11/10/2025	16:17
VSTDIC100	VSTDIC100	VW032410.D	11/10/2025	16:39
VSTDIC150	VSTDIC150	VW032411.D	11/10/2025	17:00

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: REMI02

Lab Code: ACE

SDG NO.: Q3586

Lab File ID: VW032414.D

BFB Injection Date: 11/11/2025

Instrument ID: MSVOA_W

BFB Injection Time: 07:26

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	19.1
75	30.0 - 60.0% of mass 95	49.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	66
175	5.0 - 9.0% of mass 174	4.8 (7.2) 1
176	95.0 - 101.0% of mass 174	65 (98.5) 1
177	5.0 - 9.0% of mass 176	4.3 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VW032415.D	11/11/2025	08:31
VW1111SBL01	VW1111SBL01	VW032416.D	11/11/2025	09:34
VW1111SBS01	VW1111SBS01	VW032417.D	11/11/2025	10:00
VW1111SBSD01	VW1111SBSD01	VW032418.D	11/11/2025	10:21
SED-1	Q3586-01	VW032427.D	11/11/2025	13:54
SED-2	Q3586-02	VW032428.D	11/11/2025	14:15

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: REMI02

Lab Code: ACE

SDG NO.: Q3586

Lab File ID: VY023660.D

BFB Injection Date: 11/04/2025

Instrument ID: MSVOA_Y

BFB Injection Time: 08:11

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	17.3
75	30.0 - 60.0% of mass 95	49
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1.3 (1.3) 1
174	50.0 - 100.0% of mass 95	94.8
175	5.0 - 9.0% of mass 174	7 (7.4) 1
176	95.0 - 101.0% of mass 174	91.1 (96.1) 1
177	5.0 - 9.0% of mass 176	6 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY023661.D	11/04/2025	09:19
VSTDIC010	VSTDIC010	VY023662.D	11/04/2025	09:42
VSTDIC020	VSTDIC020	VY023663.D	11/04/2025	10:19
VSTDIC050	VSTDIC050	VY023664.D	11/04/2025	10:42
VSTDIC100	VSTDIC100	VY023665.D	11/04/2025	11:05
VSTDIC150	VSTDIC150	VY023666.D	11/04/2025	11:27

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: REMI02

Lab Code: ACE

SDG NO.: Q3586

Lab File ID: VY023751.D

BFB Injection Date: 11/12/2025

Instrument ID: MSVOA_Y

BFB Injection Time: 09:23

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

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	49.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1.2 (1.2) 1
174	50.0 - 100.0% of mass 95	93.7
175	5.0 - 9.0% of mass 174	6.9 (7.4) 1
176	95.0 - 101.0% of mass 174	89.5 (95.4) 1
177	5.0 - 9.0% of mass 176	5.7 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY023752.D	11/12/2025	10:01
VY1112SBL01	VY1112SBL01	VY023753.D	11/12/2025	10:37
VY1112SBS01	VY1112SBS01	VY023754.D	11/12/2025	11:04
SED-1RE	Q3586-01RE	VY023759.D	11/12/2025	13:14
SED-2RE	Q3586-02RE	VY023760.D	11/12/2025	13:38
SED-3	Q3586-03	VY023761.D	11/12/2025	14:01

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>REMI02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3586</u>
Lab File ID:	<u>VW032415.D</u>	Date Analyzed:	<u>11/11/2025</u>
Instrument ID:	<u>MSVOA_W</u>	Time Analyzed:	<u>08:31</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)
		Heated Purge:	(Y/N) <u>Y</u>

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	445777	7.96	817849	8.85	708146	11.63
UPPER LIMIT	891554	8.459	1635700	9.349	1416290	12.129
LOWER LIMIT	222889	7.459	408925	8.349	354073	11.129
EPA SAMPLE NO.						
SED-1	286762	7.97	660595	8.86	665967	11.64
SED-2	283259	7.96	670411	8.86	673114	11.64
VW1111SBL01	277247	7.96	601287	8.85	633123	11.63
VW1111SBS01	436360	7.96	782865	8.85	700699	11.63
VW1111SBSD01	419398	7.97	800811	8.85	702782	11.64

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>REMI02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3586</u>
Lab File ID:	<u>VW032415.D</u>	Date Analyzed:	<u>11/11/2025</u>
Instrument ID:	<u>MSVOA_W</u>	Time Analyzed:	<u>08:31</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)
		Heated Purge:	(Y/N) <u>Y</u>

	IS4 AREA #	RT #				
12 HOUR STD	322015	13.556				
UPPER LIMIT	644030	14.056				
LOWER LIMIT	161008	13.056				
EPA SAMPLE NO.						
SED-1	321294	13.56				
SED-2	275351	13.56				
VW1111SBL01	297226	13.56				
VW1111SBS01	322112	13.56				
VW1111SBSD01	321153	13.56				

IS4 = 1,4-Dichlorobenzene-d4

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: REMI02
 Lab Code: ACE SDG NO.: Q3586
 Lab File ID: VY023752.D Date Analyzed: 11/12/2025
 Instrument ID: MSVOA_Y Time Analyzed: 10:01
 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	542463	7.71	778548	8.62	693308	11.42
UPPER LIMIT	1084930	8.213	1557100	9.116	1386620	11.92
LOWER LIMIT	271232	7.213	389274	8.116	346654	10.92
EPA SAMPLE NO.						
SED-1RE	90723 *	7.71	111445 *	8.62	77890 *	11.42
SED-2RE	69400 *	7.71	117751 *	8.62	115570 *	11.41
SED-3	715841	7.71	1241972	8.62	1078013	11.41
VY1112SBL01	769463	7.71	1302390	8.62	1092818	11.42
VY1112SBS01	546007	7.71	796865	8.62	695921	11.42

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: REMI02
 Lab Code: ACE SDG NO.: Q3586
 Lab File ID: VY023752.D Date Analyzed: 11/12/2025
 Instrument ID: MSVOA_Y Time Analyzed: 10:01
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	345261	13.346				
UPPER LIMIT	690522	13.846				
LOWER LIMIT	172631	12.846				
EPA SAMPLE NO.						
SED-1RE	23500 *	13.35				
SED-2RE	41947 *	13.35				
SED-3	465632	13.35				
VY1112SBL01	431668	13.35				
VY1112SBS01	358224	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: SED-1
Lab Sample ID: Q3586-01
Analytical Method: 8260D
Sample Wt/Vol: 8.12 g

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/06/25
Date Received: 11/07/25
SDG No.: Q3586
Matrix: SOIL
% Solid: 62.9
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.10	U	1	1.10	4.90	ug/Kg	11/11/25 13:54	VW111125
74-87-3	Chloromethane	1.10	U	1	1.10	4.90	ug/Kg	11/11/25 13:54	VW111125
75-01-4	Vinyl Chloride	0.77	U	1	0.77	4.90	ug/Kg	11/11/25 13:54	VW111125
74-83-9	Bromomethane	1.00	U	1	1.00	4.90	ug/Kg	11/11/25 13:54	VW111125
75-00-3	Chloroethane	1.20	U	1	1.20	4.90	ug/Kg	11/11/25 13:54	VW111125
75-69-4	Trichlorofluoromethane	1.20	U	1	1.20	4.90	ug/Kg	11/11/25 13:54	VW111125
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1	1.00	4.90	ug/Kg	11/11/25 13:54	VW111125
75-35-4	1,1-Dichloroethene	0.98	U	1	0.98	4.90	ug/Kg	11/11/25 13:54	VW111125
67-64-1	Acetone	29.8		1	4.60	24.5	ug/Kg	11/11/25 13:54	VW111125
75-15-0	Carbon Disulfide	7.20		1	1.00	4.90	ug/Kg	11/11/25 13:54	VW111125
1634-04-4	Methyl tert-butyl Ether	0.71	U	1	0.71	4.90	ug/Kg	11/11/25 13:54	VW111125
79-20-9	Methyl Acetate	1.50	U	1	1.50	4.90	ug/Kg	11/11/25 13:54	VW111125
75-09-2	Methylene Chloride	12.4		1	3.50	9.80	ug/Kg	11/11/25 13:54	VW111125
156-60-5	trans-1,2-Dichloroethene	0.84	U	1	0.84	4.90	ug/Kg	11/11/25 13:54	VW111125
75-34-3	1,1-Dichloroethane	0.78	U	1	0.78	4.90	ug/Kg	11/11/25 13:54	VW111125
110-82-7	Cyclohexane	0.77	U	1	0.77	4.90	ug/Kg	11/11/25 13:54	VW111125
78-93-3	2-Butanone	6.40	U	1	6.40	24.5	ug/Kg	11/11/25 13:54	VW111125
56-23-5	Carbon Tetrachloride	0.95	U	1	0.95	4.90	ug/Kg	11/11/25 13:54	VW111125
156-59-2	cis-1,2-Dichloroethene	0.73	U	1	0.73	4.90	ug/Kg	11/11/25 13:54	VW111125
74-97-5	Bromochloromethane	1.10	U	1	1.10	4.90	ug/Kg	11/11/25 13:54	VW111125
67-66-3	Chloroform	0.82	U	1	0.82	4.90	ug/Kg	11/11/25 13:54	VW111125
71-55-6	1,1,1-Trichloroethane	0.91	U	1	0.91	4.90	ug/Kg	11/11/25 13:54	VW111125
108-87-2	Methylcyclohexane	0.89	U	1	0.89	4.90	ug/Kg	11/11/25 13:54	VW111125
71-43-2	Benzene	0.77	U	1	0.77	4.90	ug/Kg	11/11/25 13:54	VW111125
107-06-2	1,2-Dichloroethane	0.77	U	1	0.77	4.90	ug/Kg	11/11/25 13:54	VW111125
79-01-6	Trichloroethene	0.79	U	1	0.79	4.90	ug/Kg	11/11/25 13:54	VW111125
78-87-5	1,2-Dichloropropane	0.89	U	1	0.89	4.90	ug/Kg	11/11/25 13:54	VW111125
75-27-4	Bromodichloromethane	0.76	U	1	0.76	4.90	ug/Kg	11/11/25 13:54	VW111125
108-10-1	4-Methyl-2-Pentanone	3.50	U	1	3.50	24.5	ug/Kg	11/11/25 13:54	VW111125
108-88-3	Toluene	0.76	U	1	0.76	4.90	ug/Kg	11/11/25 13:54	VW111125
10061-02-6	t-1,3-Dichloropropene	0.64	U	1	0.64	4.90	ug/Kg	11/11/25 13:54	VW111125
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1	0.61	4.90	ug/Kg	11/11/25 13:54	VW111125
79-00-5	1,1,2-Trichloroethane	0.90	U	1	0.90	4.90	ug/Kg	11/11/25 13:54	VW111125
591-78-6	2-Hexanone	3.60	U	1	3.60	24.5	ug/Kg	11/11/25 13:54	VW111125
124-48-1	Dibromochloromethane	0.85	U	1	0.85	4.90	ug/Kg	11/11/25 13:54	VW111125
106-93-4	1,2-Dibromoethane	0.86	U	1	0.86	4.90	ug/Kg	11/11/25 13:54	VW111125
127-18-4	Tetrachloroethene	1.00	U	1	1.00	4.90	ug/Kg	11/11/25 13:54	VW111125
108-90-7	Chlorobenzene	0.89	U	1	0.89	4.90	ug/Kg	11/11/25 13:54	VW111125
100-41-4	Ethyl Benzene	0.66	U	1	0.66	4.90	ug/Kg	11/11/25 13:54	VW111125
179601-23-1	m/p-Xylenes	1.20	U	1	1.20	9.80	ug/Kg	11/11/25 13:54	VW111125
95-47-6	o-Xylene	0.80	U	1	0.80	4.90	ug/Kg	11/11/25 13:54	VW111125
100-42-5	Styrene	0.70	U	1	0.70	4.90	ug/Kg	11/11/25 13:54	VW111125
75-25-2	Bromoform	0.84	U	1	0.84	4.90	ug/Kg	11/11/25 13:54	VW111125

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: SED-1
Lab Sample ID: Q3586-01
Analytical Method: 8260D
Sample Wt/Vol: 8.12 g

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/06/25
Date Received: 11/07/25
SDG No.: Q3586
Matrix: SOIL
% Solid: 62.9
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.76	U	1	0.76	4.90	ug/Kg	11/11/25 13:54	VW111125
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1	1.20	4.90	ug/Kg	11/11/25 13:54	VW111125
541-73-1	1,3-Dichlorobenzene	1.70	U	1	1.70	4.90	ug/Kg	11/11/25 13:54	VW111125
106-46-7	1,4-Dichlorobenzene	1.50	U	1	1.50	4.90	ug/Kg	11/11/25 13:54	VW111125
95-50-1	1,2-Dichlorobenzene	1.40	U	1	1.40	4.90	ug/Kg	11/11/25 13:54	VW111125
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1	1.80	4.90	ug/Kg	11/11/25 13:54	VW111125
120-82-1	1,2,4-Trichlorobenzene	2.90	U	1	2.90	4.90	ug/Kg	11/11/25 13:54	VW111125
87-61-6	1,2,3-Trichlorobenzene	3.10	U	1	3.10	4.90	ug/Kg	11/11/25 13:54	VW111125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	69.0	*		70 (63) - 130 (155)	138%	SPK: 50		
1868-53-7	Dibromofluoromethane	57.4			70 (70) - 130 (134)	115%	SPK: 50		
2037-26-5	Toluene-d8	58.2			70 (74) - 130 (123)	116%	SPK: 50		
460-00-4	4-Bromofluorobenzene	98.6	*		70 (52) - 130 (138)	197%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	287000							
540-36-3	1,4-Difluorobenzene	661000							
3114-55-4	Chlorobenzene-d5	666000							
3855-82-1	1,4-Dichlorobenzene-d4	321000							
TENTATIVE IDENTIFIED COMPOUNDS									
60-29-7	Diethyl Ether	12.1	J			3.73	ug/Kg		
75-65-0	Tert butyl alcohol	29.8	J			5.21	ug/Kg		
108-20-3	Diisopropyl ether	15.8	J			6.34	ug/Kg		
109-99-9	Tetrahydrofuran	7.10	J			7.56	ug/Kg		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032427.D
 Acq On : 11 Nov 2025 13:54
 Operator : SY/MD
 Sample : Q3586-01
 Misc : 8.12g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SED-1

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/12/2025
 Supervised By :Mahesh Dadoda 11/12/2025

Quant Time: Nov 12 03:49:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	286762	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	660595	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	665967	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	321294	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	255006	68.976	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 137.960%			
35) Dibromofluoromethane	7.904	113	227087	57.416	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 114.840%			
50) Toluene-d8	10.331	98	883087	58.200	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 116.400%			
62) 4-Bromofluorobenzene	12.617	95	564943	98.562	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 197.120%#			
Target Compounds						
						Qvalue
8) Diethyl Ether	3.728	74	24930	12.357	ug/l	99
11) Tert butyl alcohol	5.210	59	9738m	30.461	ug/l	
16) Acetone	4.167	43	33721	30.487	ug/l	99
17) Carbon Disulfide	4.423	76	67290	7.386	ug/l	99
20) Methylene Chloride	4.960	84	49923	12.621	ug/l	97
22) Diisopropyl ether	6.344	45	195313	16.184	ug/l	90
29) Tetrahydrofuran	7.563	42	7498	7.250	ug/l	91

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

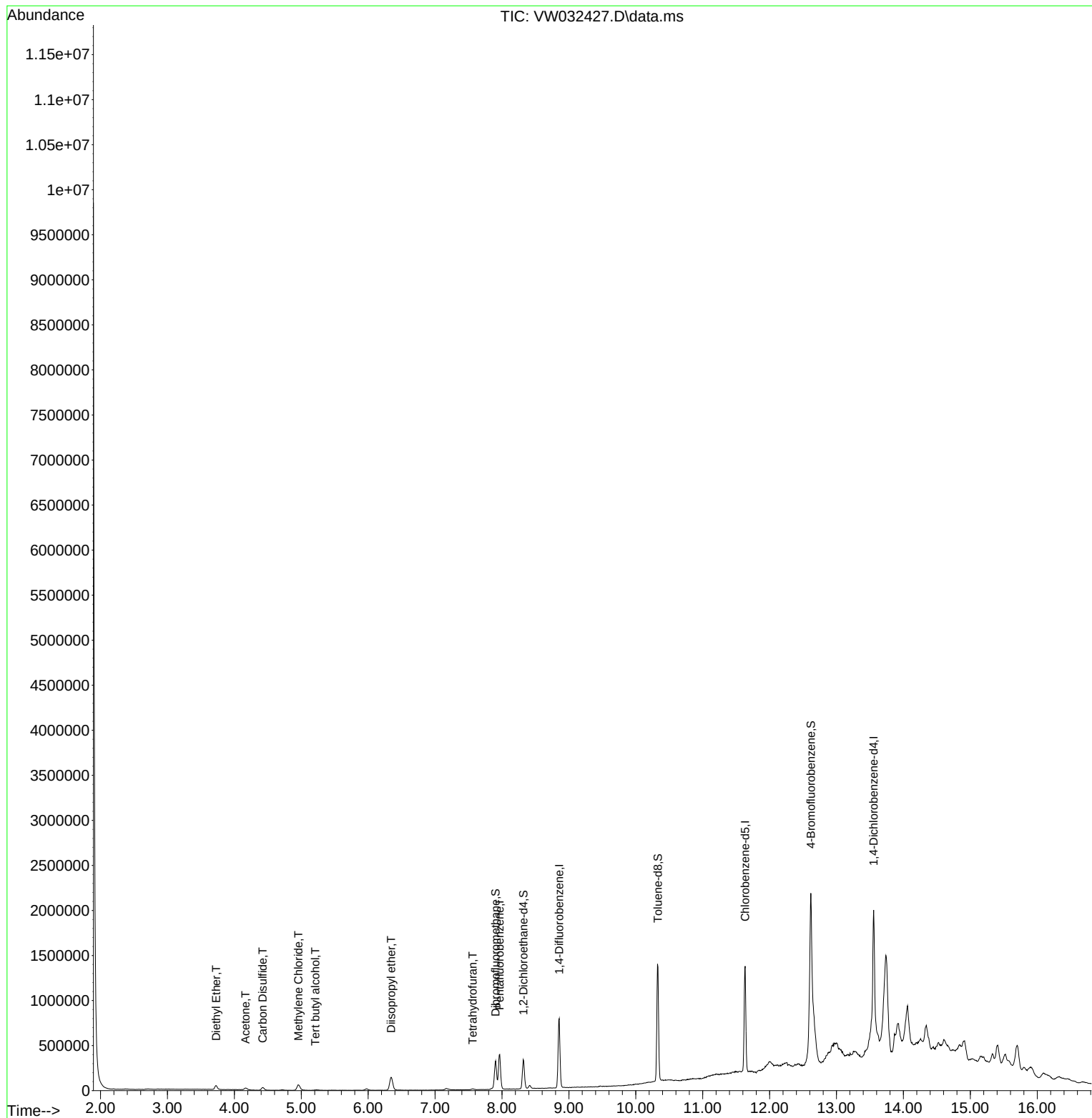
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032427.D
Acq On : 11 Nov 2025 13:54
Operator : SY/MD
Sample : Q3586-01
Misc : 8.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

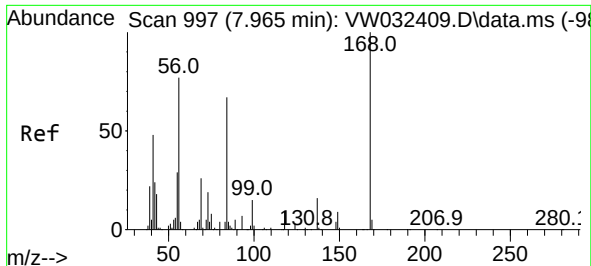
Instrument :
MSVOA_W
ClientSampleId :
SED-1

Quant Time: Nov 12 03:49:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

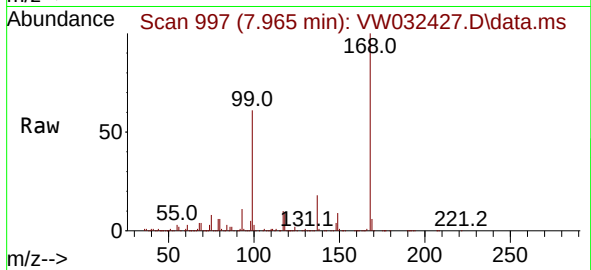
Reviewed By :Amit Patel 11/12/2025
Supervised By :Mahesh Dadoda 11/12/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

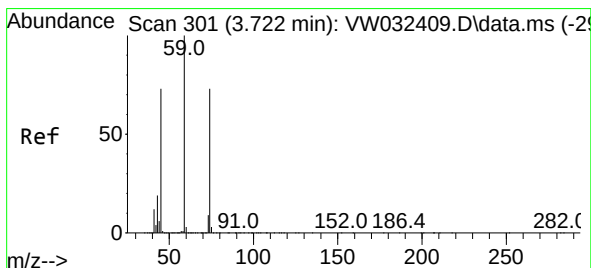
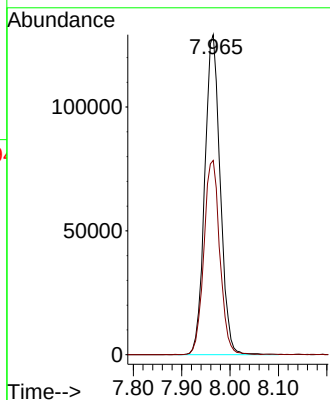
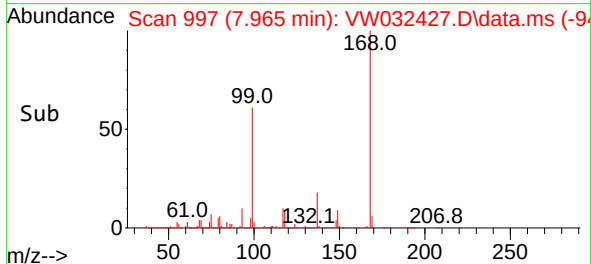
Instrument :
MSVOA_W
ClientSampleId :
SED-1



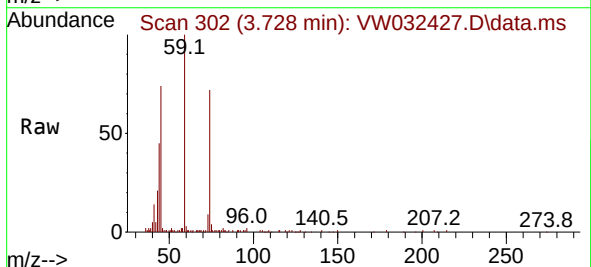
Tgt Ion:168 Resp: 286762
Ion Ratio Lower Upper
168 100
99 60.7 45.4 68.2

Manual Integrations
APPROVED

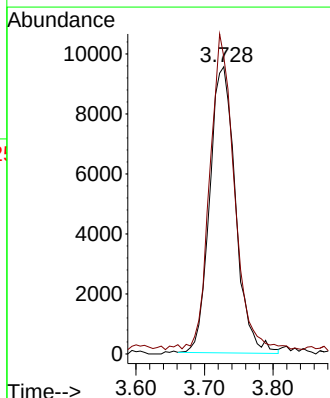
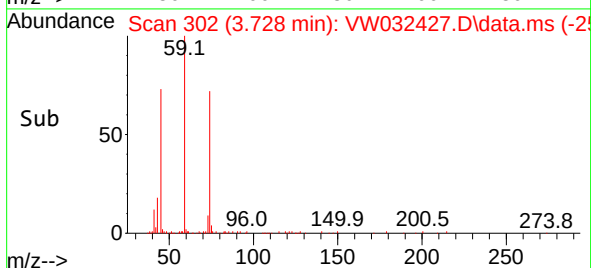
Reviewed By :Amit Patel 11/12/2025
Supervised By :Mahesh Dadoda 11/12/2025

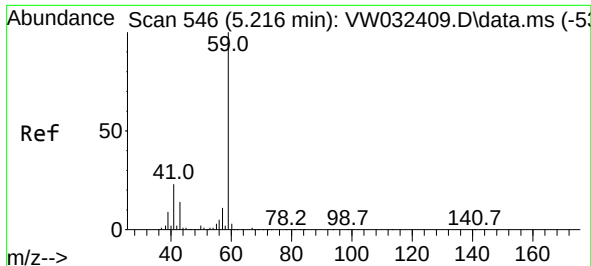


#8
Diethyl Ether
Concen: 12.357 ug/l
RT: 3.728 min Scan# 302
Delta R.T. 0.006 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54



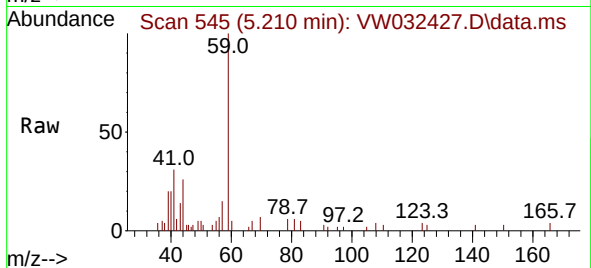
Tgt Ion: 74 Resp: 24930
Ion Ratio Lower Upper
74 100
45 104.2 51.8 155.4





#11
Tert butyl alcohol
Concen: 30.461 ug/l m
RT: 5.210 min Scan# 546
Delta R.T. -0.006 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

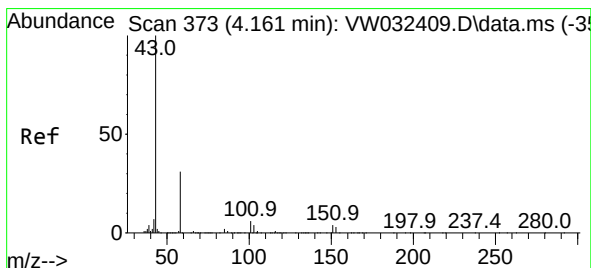
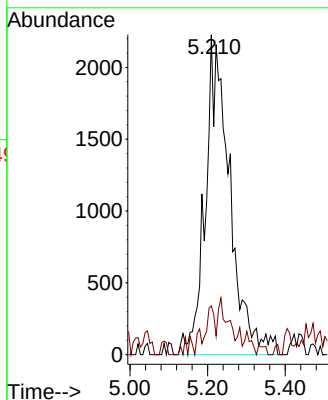
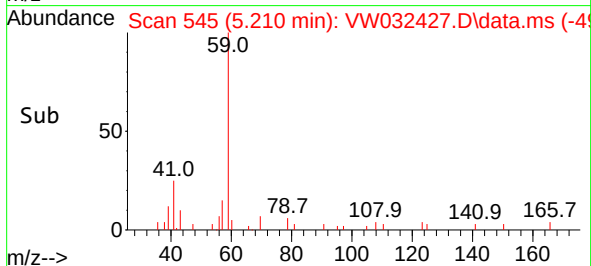
Instrument :
MSVOA_W
ClientSampleId :
SED-1



Tgt Ion: 59 Resp: 9738
Ion Ratio Lower Upper
59 100
57 3.6 8.6 12.8

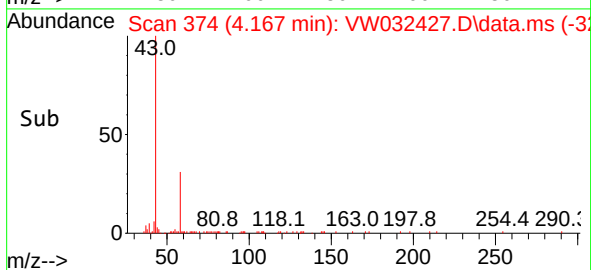
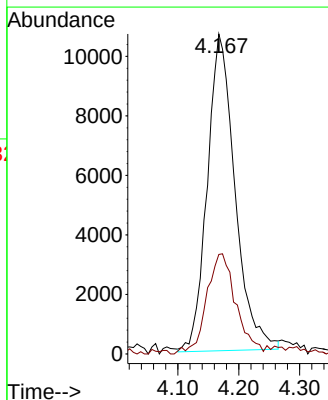
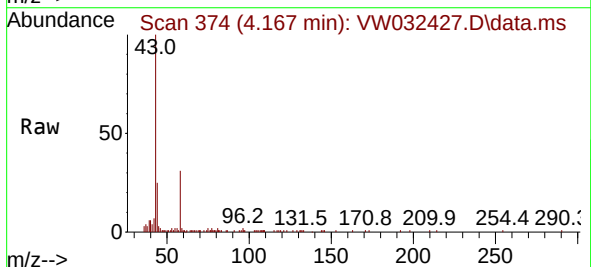
Manual Integrations
APPROVED

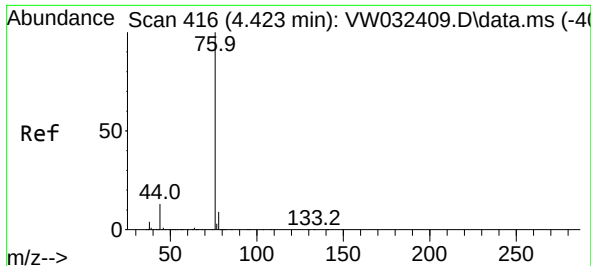
Reviewed By :Amit Patel 11/12/2025
Supervised By :Mahesh Dadoda 11/12/2025



#16
Acetone
Concen: 30.487 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

Tgt Ion: 43 Resp: 33721
Ion Ratio Lower Upper
43 100
58 30.6 24.8 37.2





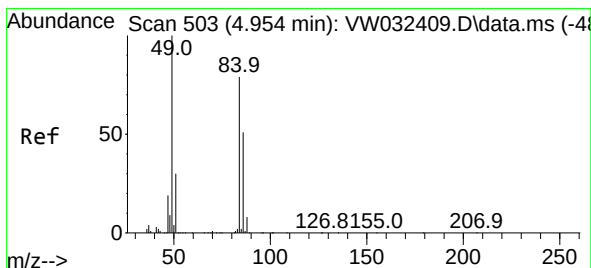
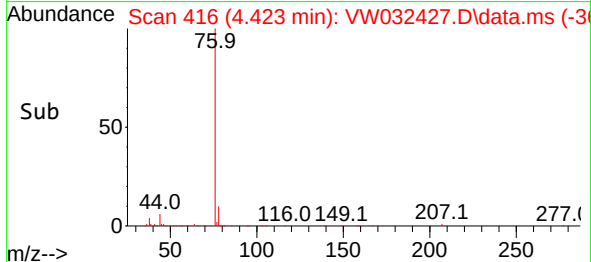
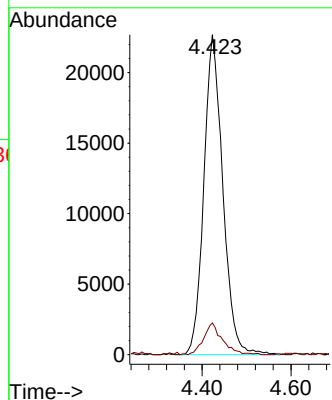
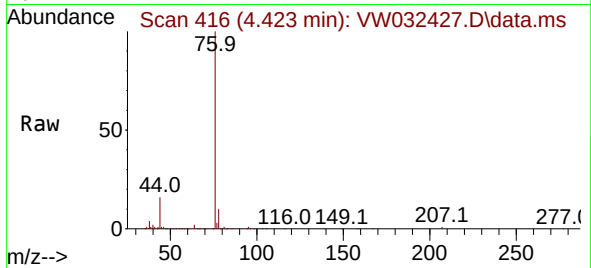
#17
Carbon Disulfide
Concen: 7.386 ug/l
RT: 4.423 min Scan# 416
Delta R.T. 0.000 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

Instrument :
MSVOA_W
ClientSampleId :
SED-1

Tgt Ion: 76 Resp: 67290
Ion Ratio Lower Upper
76 100
78 9.9 7.6 11.4

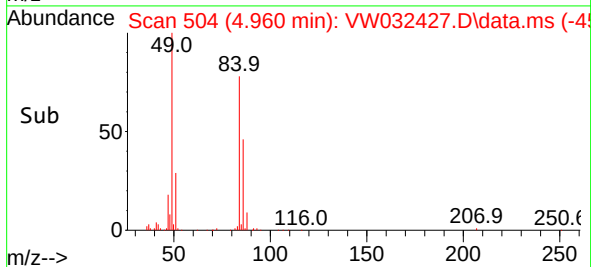
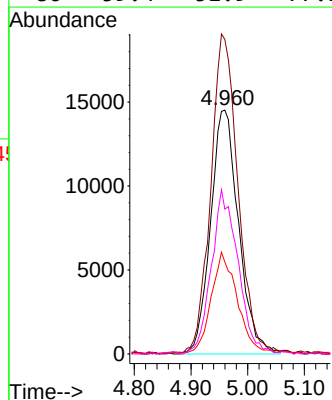
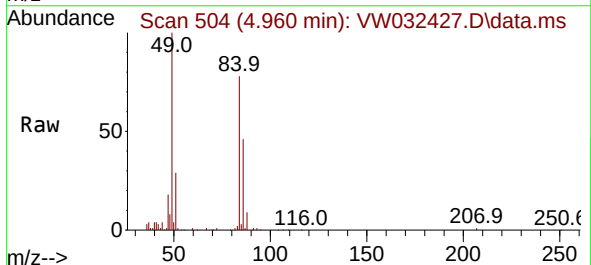
Manual Integrations
APPROVED

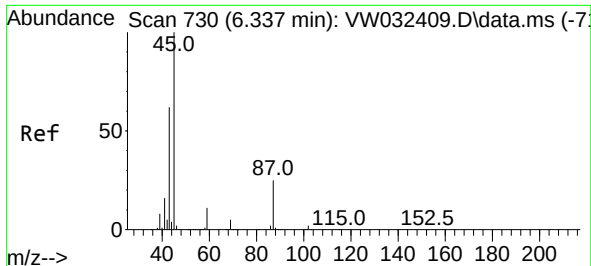
Reviewed By :Amit Patel 11/12/2025
Supervised By :Mahesh Dadoda 11/12/2025



#20
Methylene Chloride
Concen: 12.621 ug/l
RT: 4.960 min Scan# 504
Delta R.T. 0.006 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

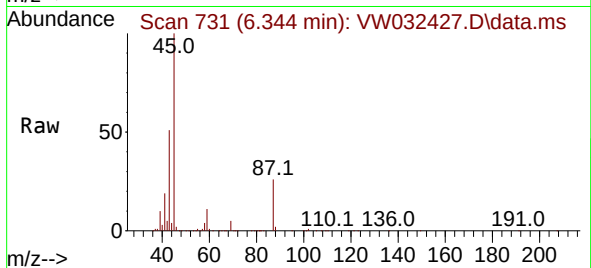
Tgt Ion: 84 Resp: 49923
Ion Ratio Lower Upper
84 100
49 128.3 101.5 152.3
51 37.2 30.6 46.0
86 59.4 51.9 77.9





#22
Diisopropyl ether
Concen: 16.184 ug/l
RT: 6.344 min Scan# 731
Delta R.T. 0.006 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

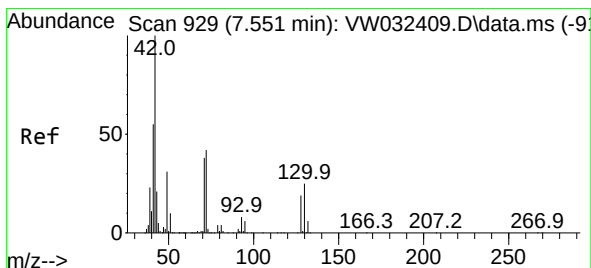
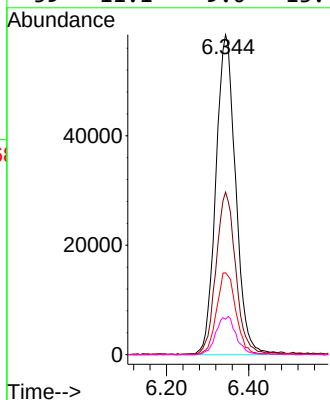
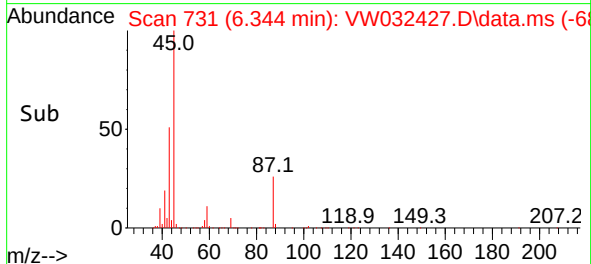
Instrument :
MSVOA_W
ClientSampleId :
SED-1



Tgt Ion	Ratio	Lower	Upper
45	100		
43	50.5	49.4	74.2
87	25.6	20.1	30.1
59	11.1	9.0	13.4

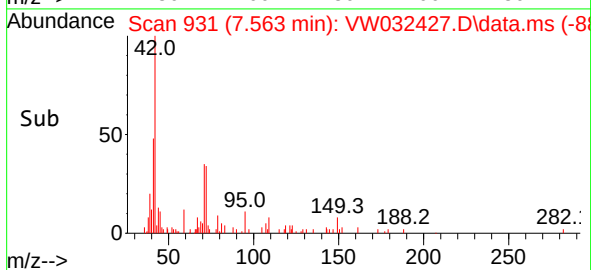
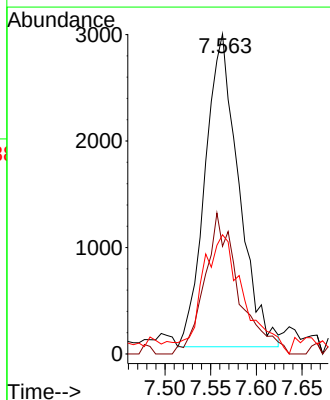
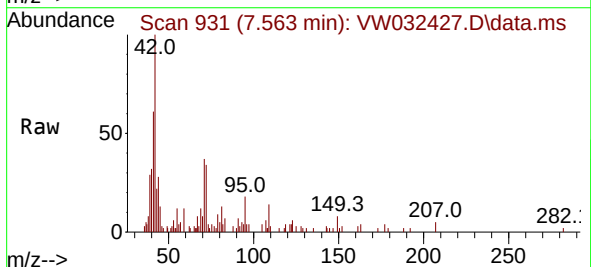
Manual Integrations
APPROVED

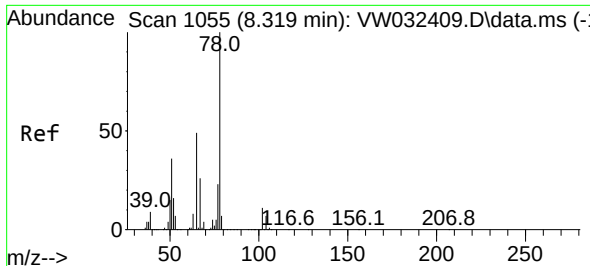
Reviewed By :Amit Patel 11/12/2025
Supervised By :Mahesh Dadoda 11/12/2025



#29
Tetrahydrofuran
Concen: 7.250 ug/l
RT: 7.563 min Scan# 931
Delta R.T. 0.012 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

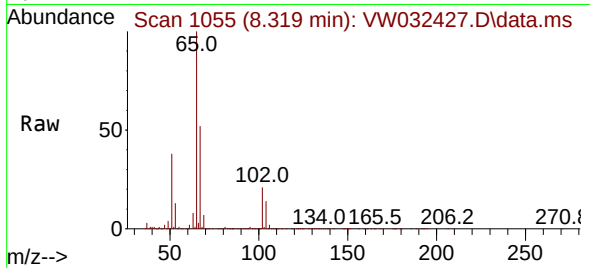
Tgt Ion	Ratio	Lower	Upper
42	100		
72	45.9	33.6	50.4
71	46.8	31.4	47.0





#33
 1,2-Dichloroethane-d4
 Concen: 68.976 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: VW032427.D
 Acq: 11 Nov 2025 13:54

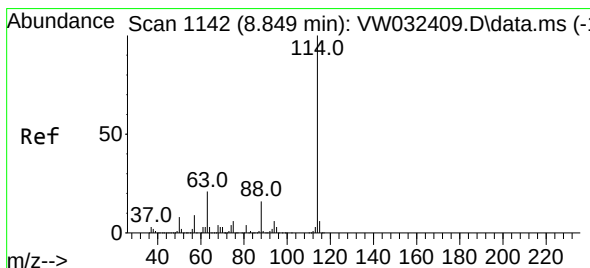
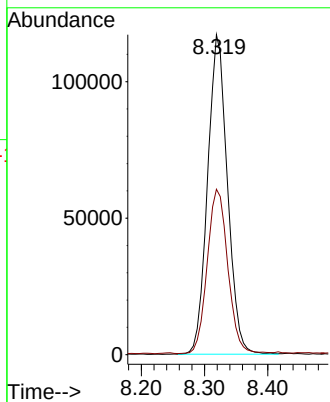
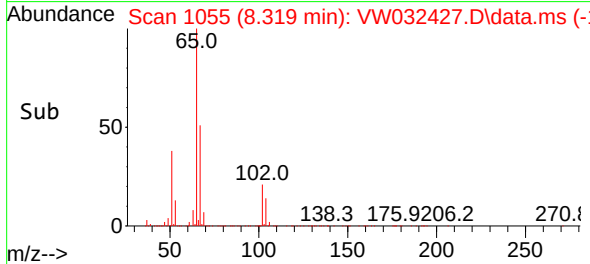
Instrument :
 MSVOA_W
 ClientSampleId :
 SED-1



Tgt Ion: 65 Resp: 255000
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 106.8

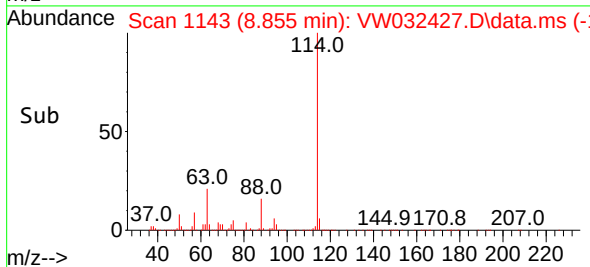
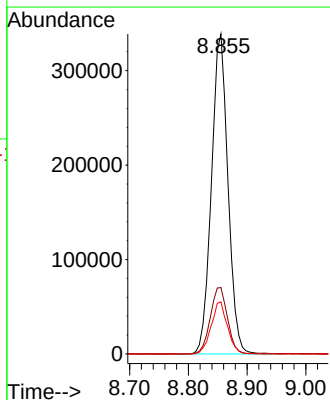
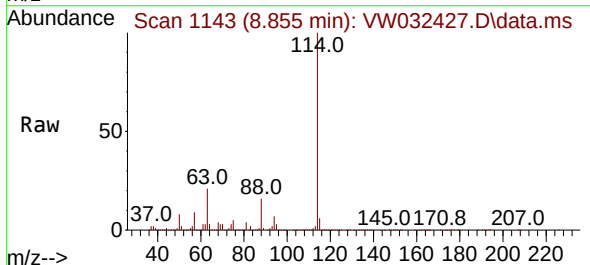
Manual Integrations
 APPROVED

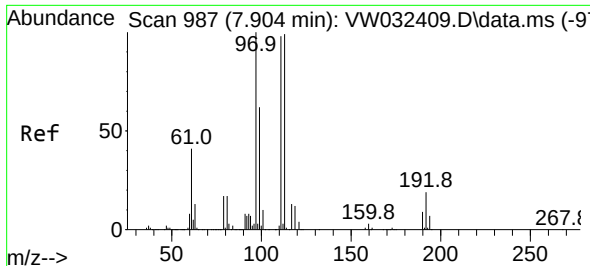
Reviewed By :Amit Patel 11/12/2025
 Supervised By :Mahesh Dadoda 11/12/2025



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.855 min Scan# 1143
 Delta R.T. 0.006 min
 Lab File: VW032427.D
 Acq: 11 Nov 2025 13:54

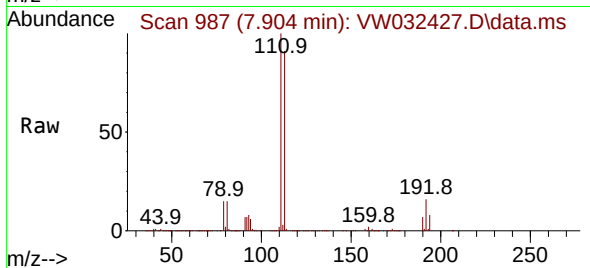
Tgt Ion:114 Resp: 660595
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 41.8
 88 16.3 0.0 32.6





#35
Dibromofluoromethane
Concen: 57.416 ug/l
RT: 7.904 min Scan# 91
Delta R.T. 0.000 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

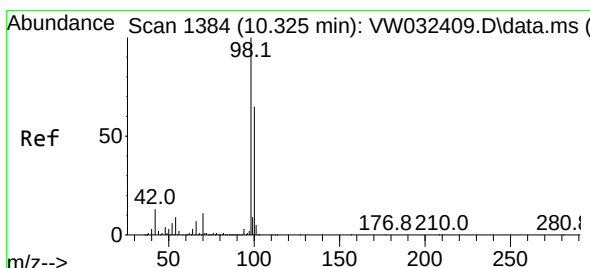
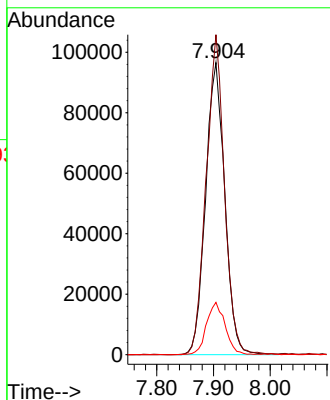
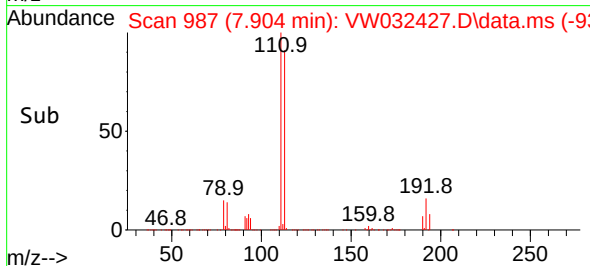
Instrument :
MSVOA_W
ClientSampleId :
SED-1



Tgt Ion:113 Resp: 22708
Ion Ratio Lower Upper
113 100
111 104.9 83.1 124.7
192 17.5 13.4 20.2

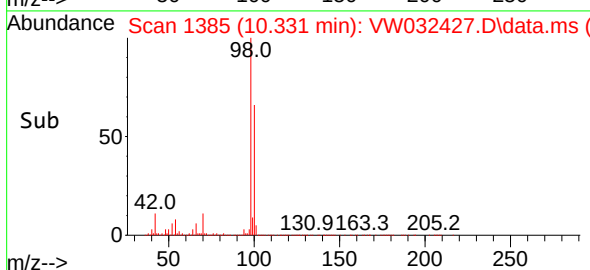
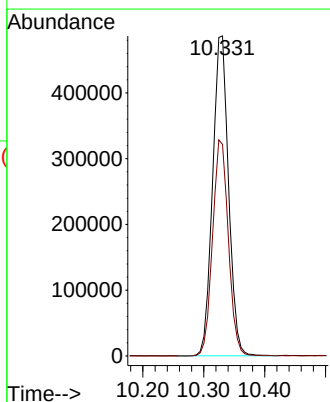
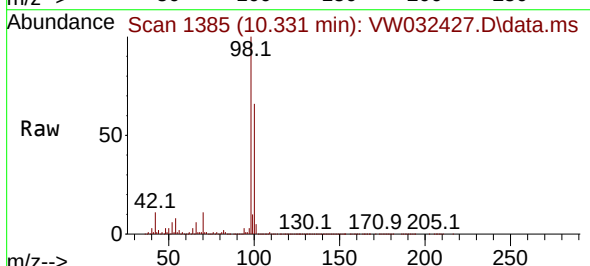
Manual Integrations
APPROVED

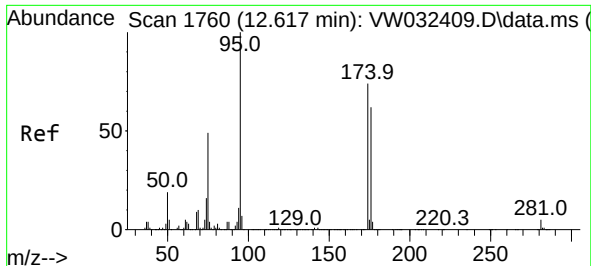
Reviewed By :Amit Patel 11/12/2025
Supervised By :Mahesh Dadoda 11/12/2025



#50
Toluene-d8
Concen: 58.200 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

Tgt Ion: 98 Resp: 883087
Ion Ratio Lower Upper
98 100
100 67.1 53.3 79.9





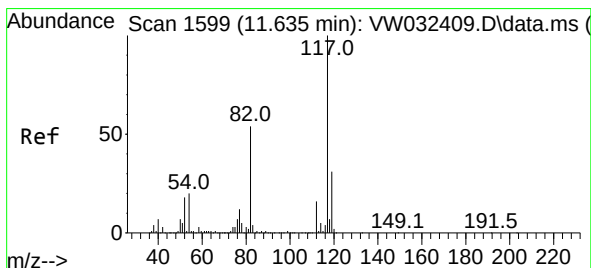
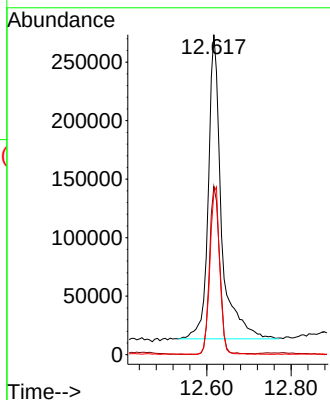
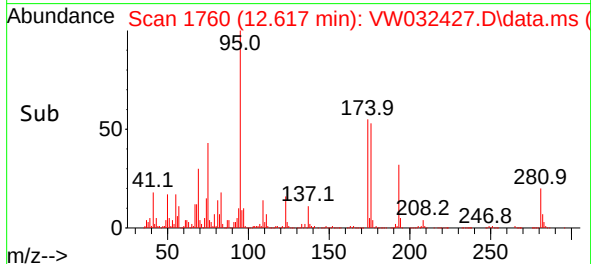
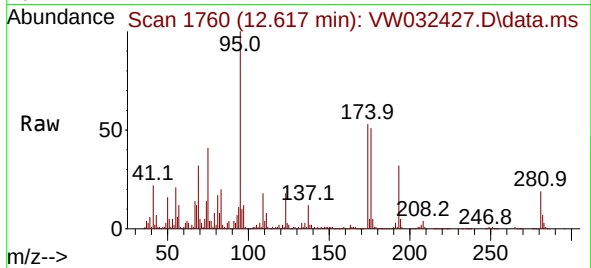
#62
4-Bromofluorobenzene
Concen: 98.562 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

Instrument :
MSVOA_W
ClientSampleId :
SED-1

Tgt Ion: 95 Resp: 56494
Ion Ratio Lower Upper
95 100
174 42.9 0.0 135.4
176 41.0 0.0 131.8

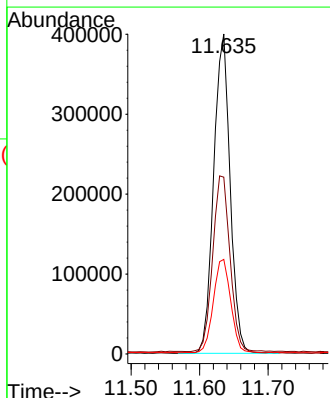
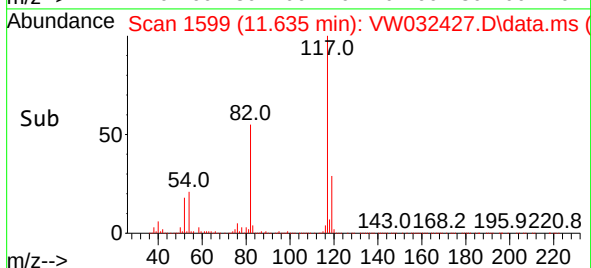
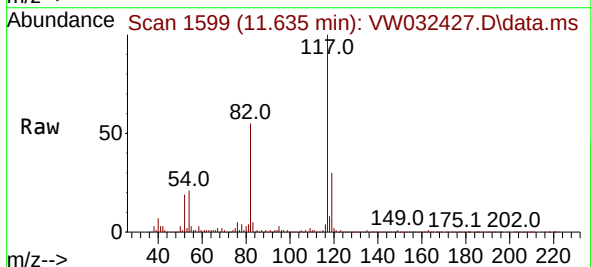
Manual Integrations
APPROVED

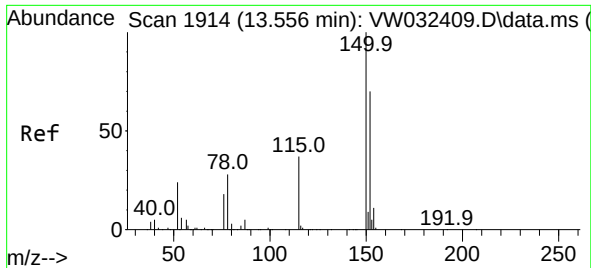
Reviewed By :Amit Patel 11/12/2025
Supervised By :Mahesh Dadoda 11/12/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

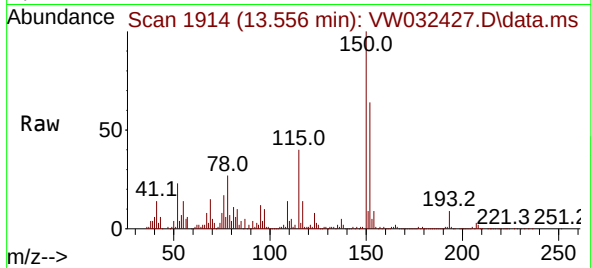
Tgt Ion:117 Resp: 665967
Ion Ratio Lower Upper
117 100
82 54.5 43.0 64.4
119 29.2 25.0 37.6





#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.556 min Scan# 1914
 Delta R.T. 0.000 min
 Lab File: VW032427.D
 Acq: 11 Nov 2025 13:54

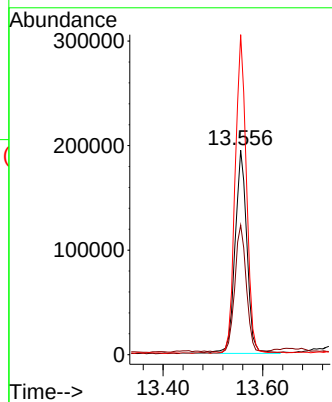
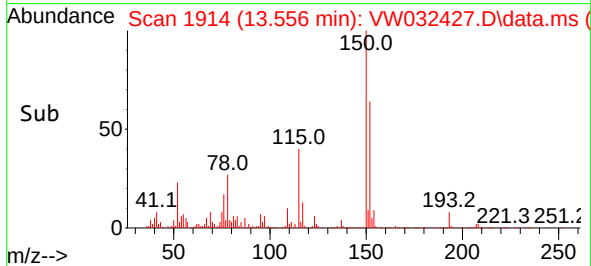
Instrument :
 MSVOA_W
 ClientSampleId :
 SED-1



Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.3	32.8	98.3
150	148.6	0.0	356.6

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/12/2025
 Supervised By :Mahesh Dadoda 11/12/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032427.D
 Acq On : 11 Nov 2025 13:54
 Operator : SY/MD
 Sample : Q3586-01
 Misc : 8.12g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SED-1

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M

Title : SW846 8260

Signal : TIC: VW032427.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.728	295	302	315	rVB3	43916	119603	1.95%	0.497%
2	4.954	494	503	517	rBV	59173	196390	3.20%	0.815%
3	6.344	717	731	748	rBV	143888	484334	7.90%	2.011%
4	7.904	973	987	992	rBV	313781	772014	12.59%	3.205%
5	7.965	992	997	1011	rVB	385691	854518	13.93%	3.548%
6	8.319	1047	1055	1064	rBV	321771	706945	11.53%	2.935%
7	8.855	1135	1143	1152	rBV	769522	1541425	25.13%	6.400%
8	10.325	1378	1384	1393	rBV	1298276	2353096	38.37%	9.770%
9	11.635	1592	1599	1606	rVB	1171342	2051647	33.45%	8.518%
10	12.617	1752	1760	1781	rVB4	1871814	6132679	100.00%	25.462%
11	13.556	1909	1914	1928	rVB	1455399	3093585	50.44%	12.844%
12	13.739	1936	1944	1957	rVB4	1071856	4217443	68.77%	17.510%
13	13.867	1962	1965	1966	rBV	148110	157033	2.56%	0.652%
14	15.409	2213	2218	2227	rVB5	198433	556386	9.07%	2.310%
15	15.702	2261	2266	2277	rVB3	270144	848720	13.84%	3.524%

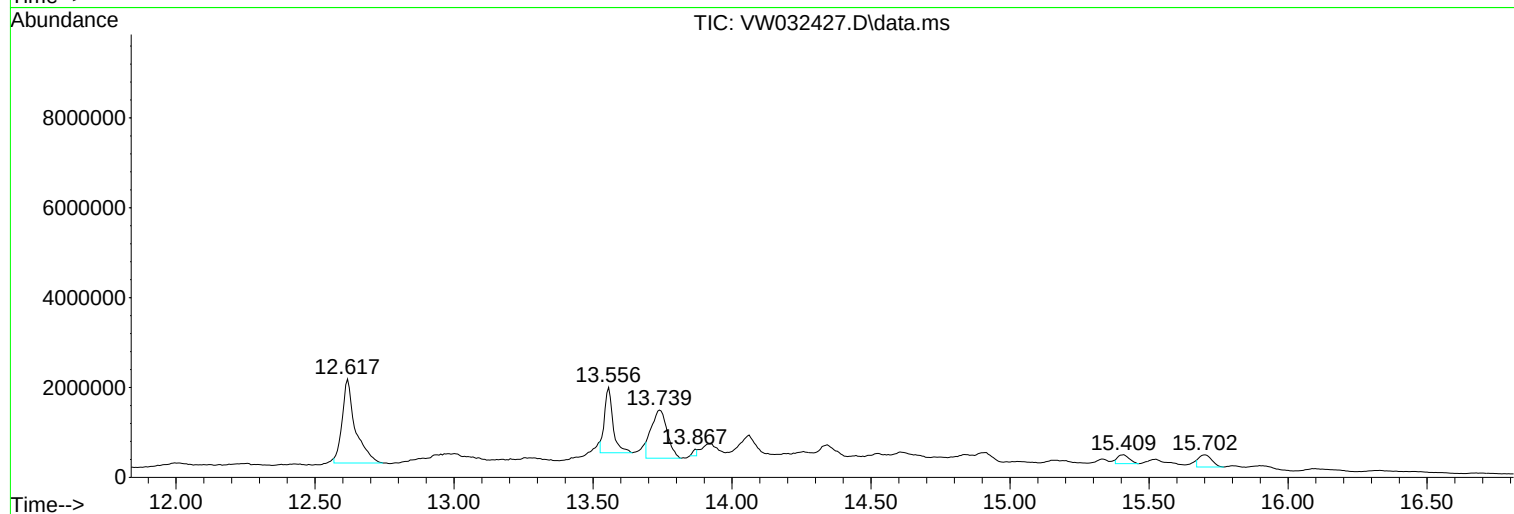
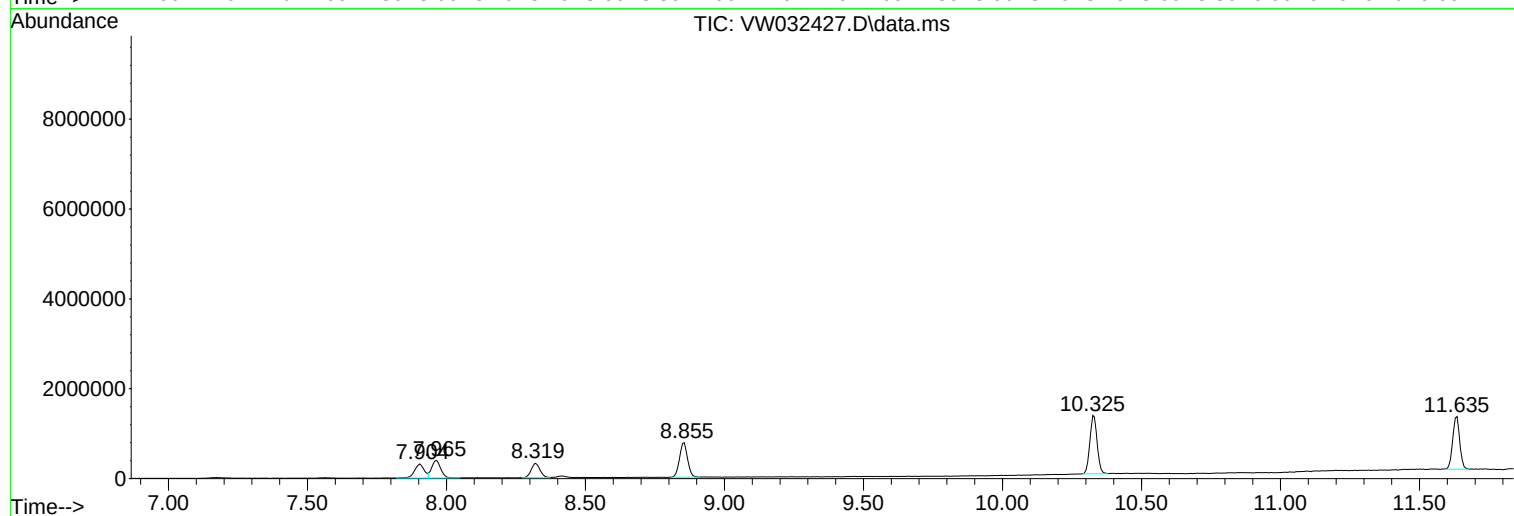
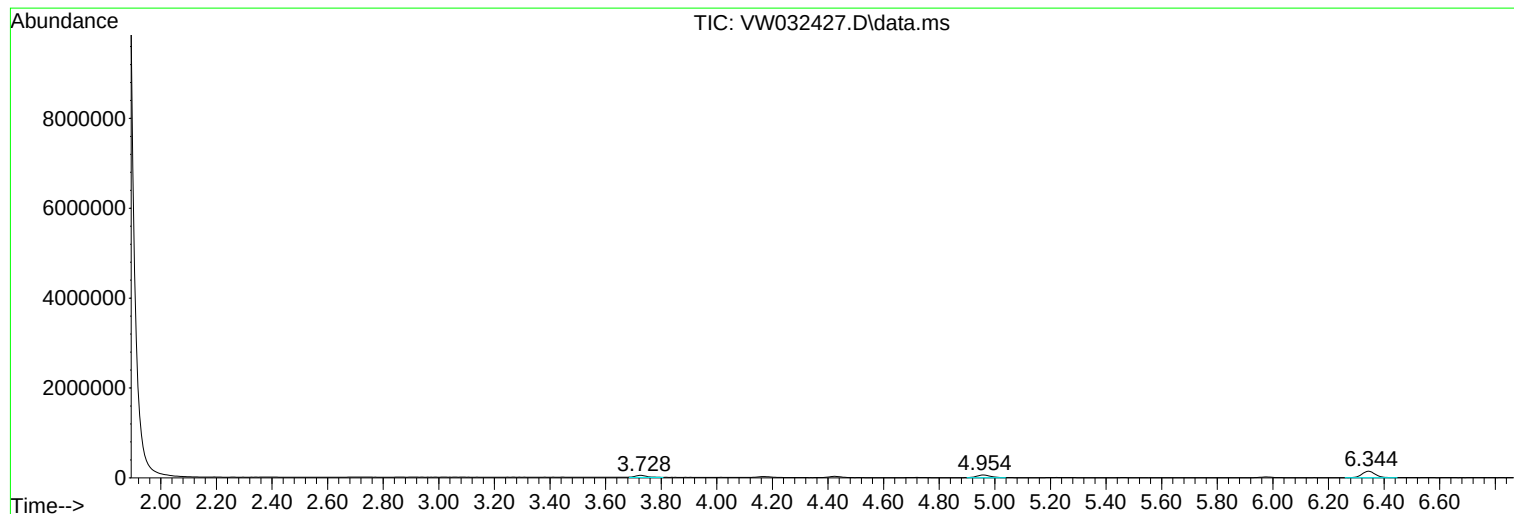
Sum of corrected areas: 24085818

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032427.D
Acq On : 11 Nov 2025 13:54
Operator : SY/MD
Sample : Q3586-01
Misc : 8.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SED-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032427.D
Acq On : 11 Nov 2025 13:54
Operator : SY/MD
Sample : Q3586-01
Misc : 8.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SED-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032427.D
Acq On : 11 Nov 2025 13:54
Operator : SY/MD
Sample : Q3586-01
Misc : 8.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SED-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

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

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: SED-1RE
Lab Sample ID: Q3586-01RE
Analytical Method: 8260D
Sample Wt/Vol: 7.78 g

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/06/25
Date Received: 11/07/25
SDG No.: Q3586
Matrix: SOIL
% Solid: 62.9
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.20	U	1	1.20	5.10	ug/Kg	11/12/25 13:14	VY111225
74-87-3	Chloromethane	1.20	U	1	1.20	5.10	ug/Kg	11/12/25 13:14	VY111225
75-01-4	Vinyl Chloride	0.81	U	1	0.81	5.10	ug/Kg	11/12/25 13:14	VY111225
74-83-9	Bromomethane	1.10	U	1	1.10	5.10	ug/Kg	11/12/25 13:14	VY111225
75-00-3	Chloroethane	1.30	U	1	1.30	5.10	ug/Kg	11/12/25 13:14	VY111225
75-69-4	Trichlorofluoromethane	1.20	U	1	1.20	5.10	ug/Kg	11/12/25 13:14	VY111225
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1	1.10	5.10	ug/Kg	11/12/25 13:14	VY111225
75-35-4	1,1-Dichloroethene	1.00	U	1	1.00	5.10	ug/Kg	11/12/25 13:14	VY111225
67-64-1	Acetone	11.8	J	1	4.80	25.5	ug/Kg	11/12/25 13:14	VY111225
75-15-0	Carbon Disulfide	3.50	J	1	1.10	5.10	ug/Kg	11/12/25 13:14	VY111225
1634-04-4	Methyl tert-butyl Ether	0.75	U	1	0.75	5.10	ug/Kg	11/12/25 13:14	VY111225
79-20-9	Methyl Acetate	1.60	U	1	1.60	5.10	ug/Kg	11/12/25 13:14	VY111225
75-09-2	Methylene Chloride	5.10	J	1	3.60	10.2	ug/Kg	11/12/25 13:14	VY111225
156-60-5	trans-1,2-Dichloroethene	0.88	U	1	0.88	5.10	ug/Kg	11/12/25 13:14	VY111225
75-34-3	1,1-Dichloroethane	0.82	U	1	0.82	5.10	ug/Kg	11/12/25 13:14	VY111225
110-82-7	Cyclohexane	0.81	U	1	0.81	5.10	ug/Kg	11/12/25 13:14	VY111225
78-93-3	2-Butanone	6.70	U	1	6.70	25.5	ug/Kg	11/12/25 13:14	VY111225
56-23-5	Carbon Tetrachloride	0.99	U	1	0.99	5.10	ug/Kg	11/12/25 13:14	VY111225
156-59-2	cis-1,2-Dichloroethene	0.77	U	1	0.77	5.10	ug/Kg	11/12/25 13:14	VY111225
74-97-5	Bromochloromethane	1.20	U	1	1.20	5.10	ug/Kg	11/12/25 13:14	VY111225
67-66-3	Chloroform	0.86	U	1	0.86	5.10	ug/Kg	11/12/25 13:14	VY111225
71-55-6	1,1,1-Trichloroethane	0.95	U	1	0.95	5.10	ug/Kg	11/12/25 13:14	VY111225
108-87-2	Methylcyclohexane	0.93	U	1	0.93	5.10	ug/Kg	11/12/25 13:14	VY111225
71-43-2	Benzene	0.81	U	1	0.81	5.10	ug/Kg	11/12/25 13:14	VY111225
107-06-2	1,2-Dichloroethane	0.81	U	1	0.81	5.10	ug/Kg	11/12/25 13:14	VY111225
79-01-6	Trichloroethene	0.83	U	1	0.83	5.10	ug/Kg	11/12/25 13:14	VY111225
78-87-5	1,2-Dichloropropane	0.93	U	1	0.93	5.10	ug/Kg	11/12/25 13:14	VY111225
75-27-4	Bromodichloromethane	0.80	U	1	0.80	5.10	ug/Kg	11/12/25 13:14	VY111225
108-10-1	4-Methyl-2-Pentanone	3.70	U	1	3.70	25.5	ug/Kg	11/12/25 13:14	VY111225
108-88-3	Toluene	0.80	U	1	0.80	5.10	ug/Kg	11/12/25 13:14	VY111225
10061-02-6	t-1,3-Dichloropropene	0.66	U	1	0.66	5.10	ug/Kg	11/12/25 13:14	VY111225
10061-01-5	cis-1,3-Dichloropropene	0.63	U	1	0.63	5.10	ug/Kg	11/12/25 13:14	VY111225
79-00-5	1,1,2-Trichloroethane	0.94	U	1	0.94	5.10	ug/Kg	11/12/25 13:14	VY111225
591-78-6	2-Hexanone	3.80	U	1	3.80	25.5	ug/Kg	11/12/25 13:14	VY111225
124-48-1	Dibromochloromethane	0.89	U	1	0.89	5.10	ug/Kg	11/12/25 13:14	VY111225
106-93-4	1,2-Dibromoethane	0.90	U	1	0.90	5.10	ug/Kg	11/12/25 13:14	VY111225
127-18-4	Tetrachloroethene	1.10	U	1	1.10	5.10	ug/Kg	11/12/25 13:14	VY111225
108-90-7	Chlorobenzene	0.93	U	1	0.93	5.10	ug/Kg	11/12/25 13:14	VY111225
100-41-4	Ethyl Benzene	0.68	U	1	0.68	5.10	ug/Kg	11/12/25 13:14	VY111225
179601-23-1	m/p-Xylenes	1.30	U	1	1.30	10.2	ug/Kg	11/12/25 13:14	VY111225
95-47-6	o-Xylene	0.84	U	1	0.84	5.10	ug/Kg	11/12/25 13:14	VY111225
100-42-5	Styrene	0.73	U	1	0.73	5.10	ug/Kg	11/12/25 13:14	VY111225
75-25-2	Bromoform	0.88	U	1	0.88	5.10	ug/Kg	11/12/25 13:14	VY111225

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: SED-1RE
Lab Sample ID: Q3586-01RE
Analytical Method: 8260D
Sample Wt/Vol: 7.78 g

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/06/25
Date Received: 11/07/25
SDG No.: Q3586
Matrix: SOIL
% Solid: 62.9
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.80	U	1	0.80	5.10	ug/Kg	11/12/25 13:14	VY111225
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1	1.20	5.10	ug/Kg	11/12/25 13:14	VY111225
541-73-1	1,3-Dichlorobenzene	1.70	U	1	1.70	5.10	ug/Kg	11/12/25 13:14	VY111225
106-46-7	1,4-Dichlorobenzene	1.60	U	1	1.60	5.10	ug/Kg	11/12/25 13:14	VY111225
95-50-1	1,2-Dichlorobenzene	1.50	U	1	1.50	5.10	ug/Kg	11/12/25 13:14	VY111225
96-12-8	1,2-Dibromo-3-Chloropropane	1.90	U	1	1.90	5.10	ug/Kg	11/12/25 13:14	VY111225
120-82-1	1,2,4-Trichlorobenzene	3.00	U	1	3.00	5.10	ug/Kg	11/12/25 13:14	VY111225
87-61-6	1,2,3-Trichlorobenzene	3.20	U	1	3.20	5.10	ug/Kg	11/12/25 13:14	VY111225

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	36.5			70 (63) - 130 (155)	73%	SPK: 50
1868-53-7	Dibromofluoromethane	46.8			70 (70) - 130 (134)	94%	SPK: 50
2037-26-5	Toluene-d8	49.3			70 (74) - 130 (123)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	33.6	*		70 (52) - 130 (138)	67%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	90700
540-36-3	1,4-Difluorobenzene	111000
3114-55-4	Chlorobenzene-d5	77900
3855-82-1	1,4-Dichlorobenzene-d4	23500

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\VY111225\
 Data File : VY023759.D
 Acq On : 12 Nov 2025 13:14
 Operator : SY/MD
 Sample : Q3586-01RE
 Misc : 7.78g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-1RE

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/14/2025
 Supervised By :Mahesh Dadoda 11/14/2025

Quant Time: Nov 14 04:50:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	90723	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	111445	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	77890	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	23500	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	28254	36.510	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	73.020%		
35) Dibromofluoromethane	7.634	113	32559	46.750	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	93.500%		
50) Toluene-d8	10.109	98	127782	49.254	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	98.500%		
62) 4-Bromofluorobenzene	12.408	95	28205	33.618	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	67.240%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.446	74	1681	4.104	ug/l	98
16) Acetone	3.854	43	2221m	11.546	ug/l	
17) Carbon Disulfide	4.110	76	8587	3.452	ug/l #	95
20) Methylene Chloride	4.616	84	4592	4.945	ug/l	94
22) Diisopropyl ether	6.018	45	8777	3.992	ug/l #	90

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

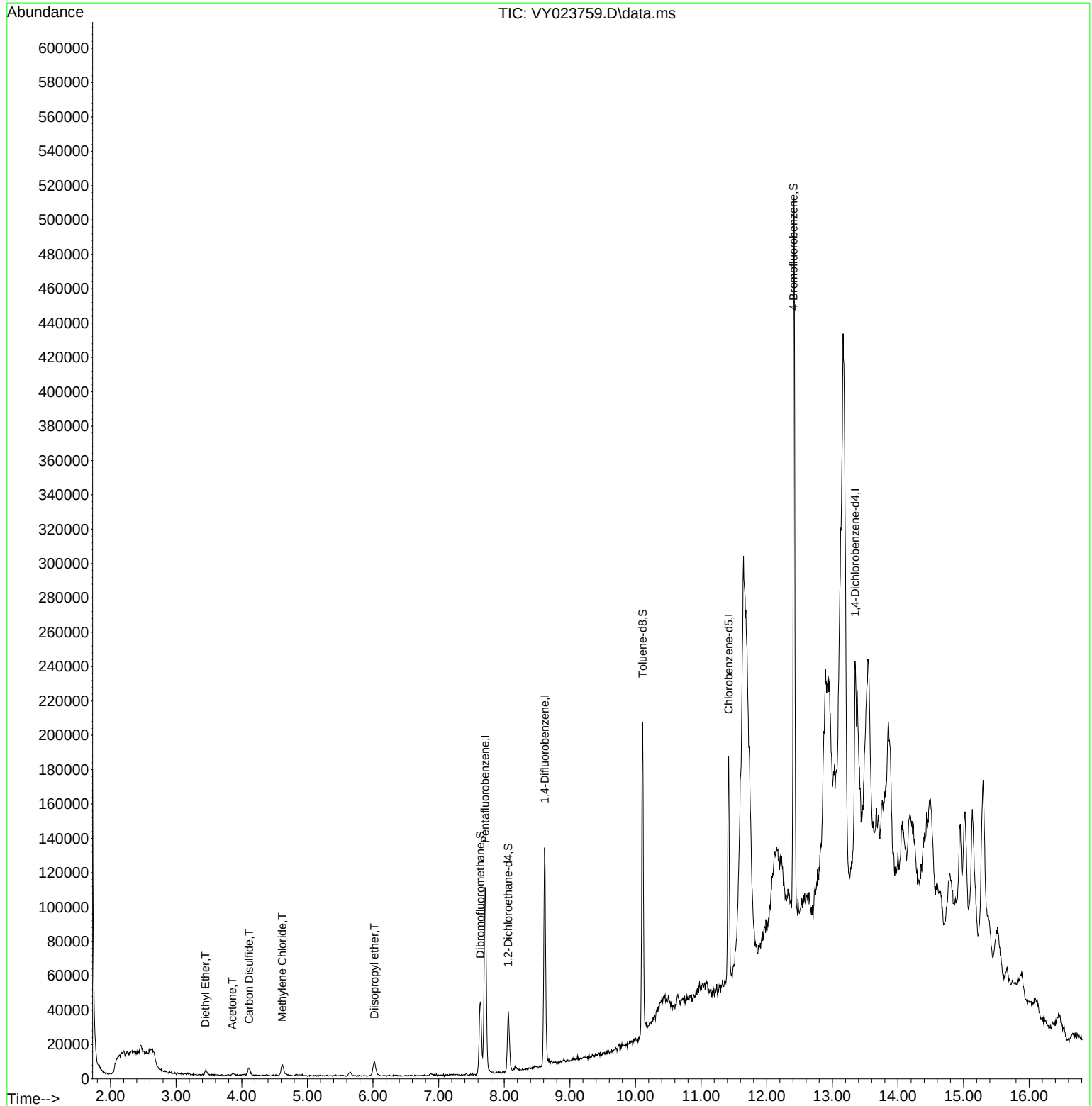
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
Data File : VY023759.D
Acq On : 12 Nov 2025 13:14
Operator : SY/MD
Sample : Q3586-01RE
Misc : 7.78g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 5 Sample Multiplier: 1

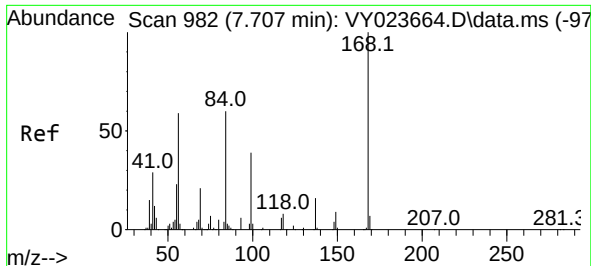
Instrument :
MSVOA_Y
ClientSampleId :
SED-1RE

Quant Time: Nov 14 04:50:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:41:50 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

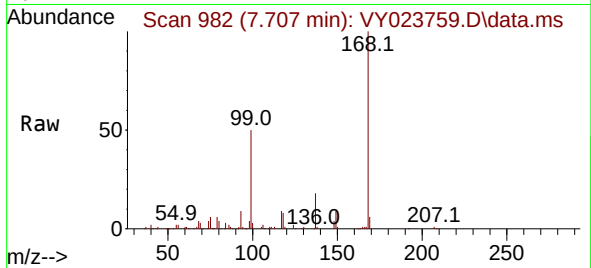
Reviewed By :Amit Patel 11/14/2025
Supervised By :Mahesh Dadoda 11/14/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY023759.D
Acq: 12 Nov 2025 13:14

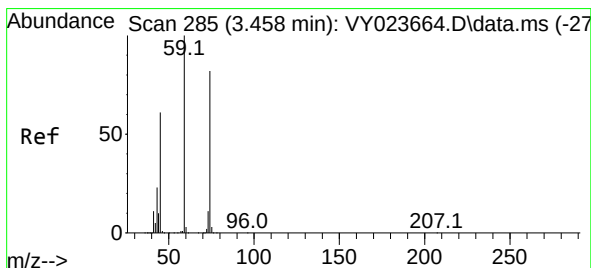
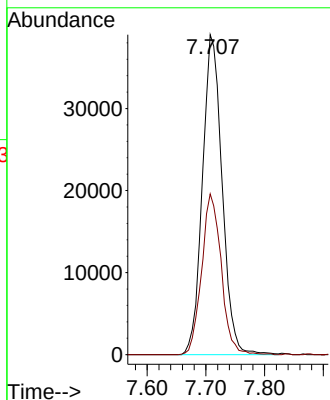
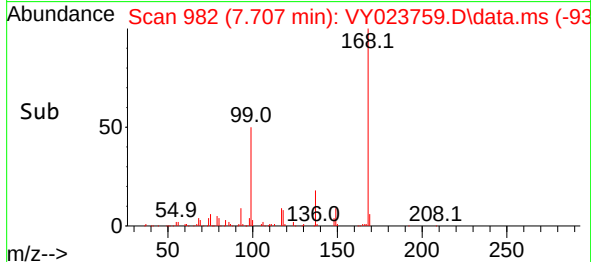
Instrument :
MSVOA_Y
ClientSampleId :
SED-1RE



Tgt Ion:168 Resp: 9072
Ion Ratio Lower Upper
168 100
99 50.3 41.0 61.4

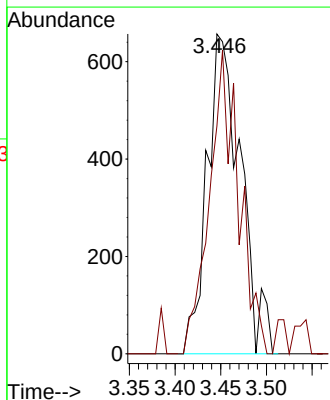
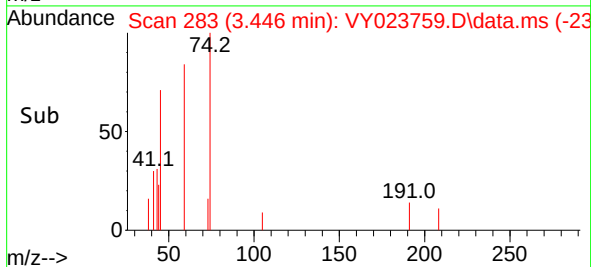
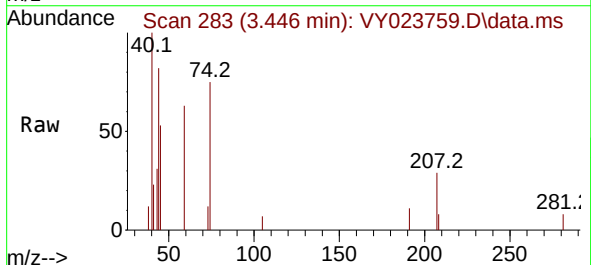
Manual Integrations
APPROVED

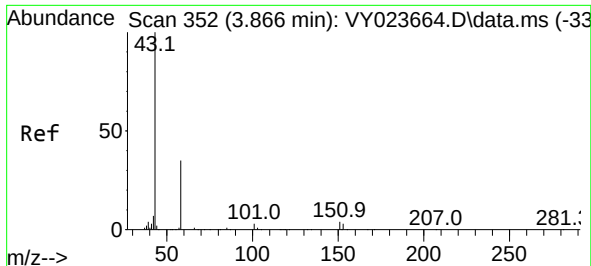
Reviewed By :Amit Patel 11/14/2025
Supervised By :Mahesh Dadoda 11/14/2025



#8
Diethyl Ether
Concen: 4.104 ug/l
RT: 3.446 min Scan# 283
Delta R.T. -0.012 min
Lab File: VY023759.D
Acq: 12 Nov 2025 13:14

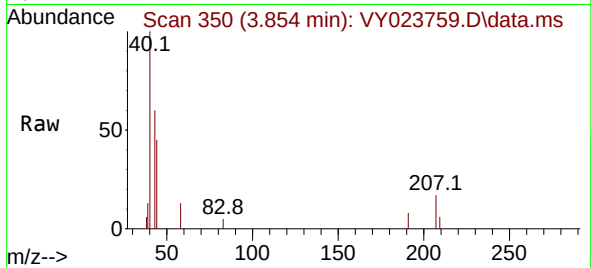
Tgt Ion: 74 Resp: 1681
Ion Ratio Lower Upper
74 100
45 83.0 40.6 121.7





#16
Acetone
Concen: 11.546 ug/l m
RT: 3.854 min Scan# 350
Delta R.T. -0.012 min
Lab File: VY023759.D
Acq: 12 Nov 2025 13:14

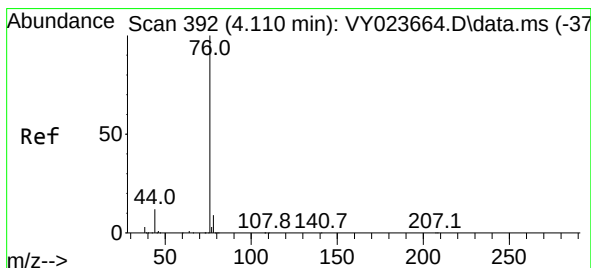
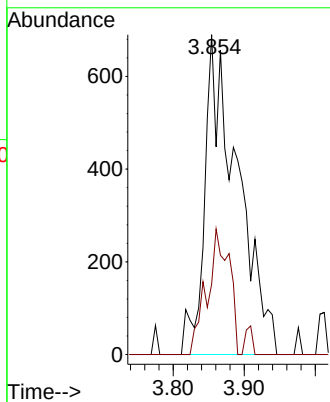
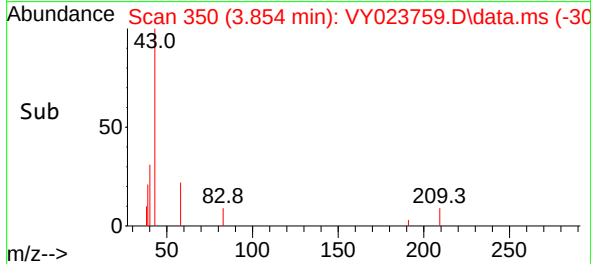
Instrument :
MSVOA_Y
ClientSampleId :
SED-1RE



Tgt Ion: 43 Resp: 222
Ion Ratio Lower Upper
43 100
58 22.0 28.2 42.4

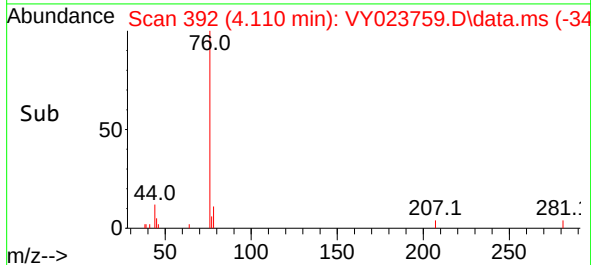
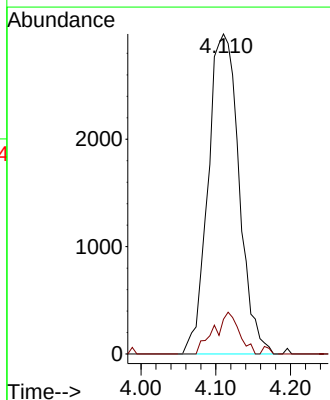
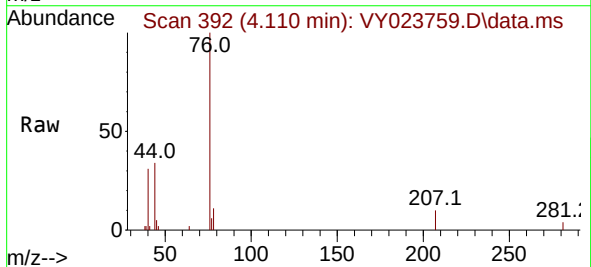
Manual Integrations
APPROVED

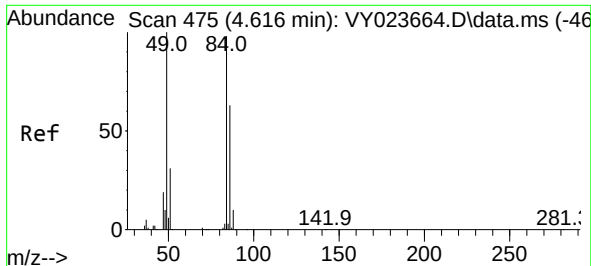
Reviewed By :Amit Patel 11/14/2025
Supervised By :Mahesh Dadoda 11/14/2025



#17
Carbon Disulfide
Concen: 3.452 ug/l
RT: 4.110 min Scan# 392
Delta R.T. -0.000 min
Lab File: VY023759.D
Acq: 12 Nov 2025 13:14

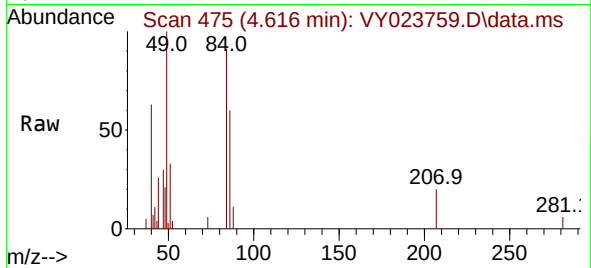
Tgt Ion: 76 Resp: 8587
Ion Ratio Lower Upper
76 100
78 10.9 7.1 10.7





#20
Methylene Chloride
Concen: 4.945 ug/l
RT: 4.616 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY023759.D
Acq: 12 Nov 2025 13:14

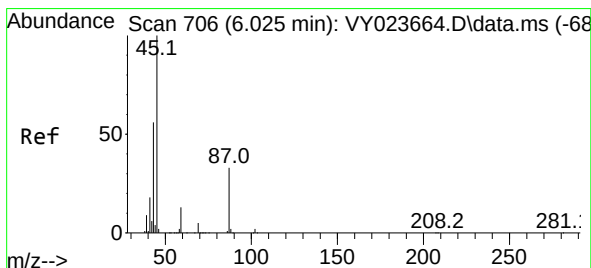
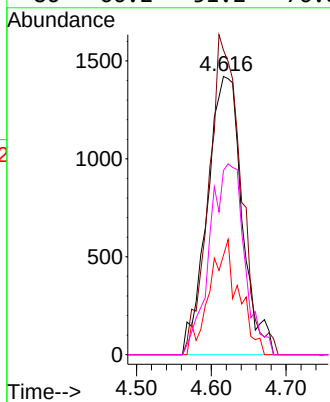
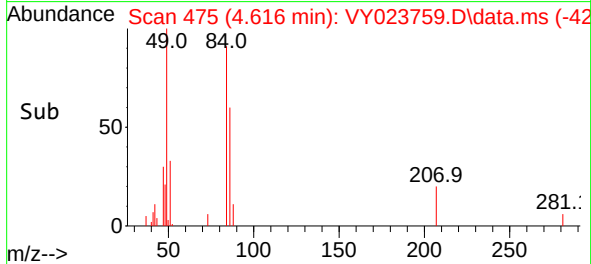
Instrument :
MSVOA_Y
ClientSampleId :
SED-1RE



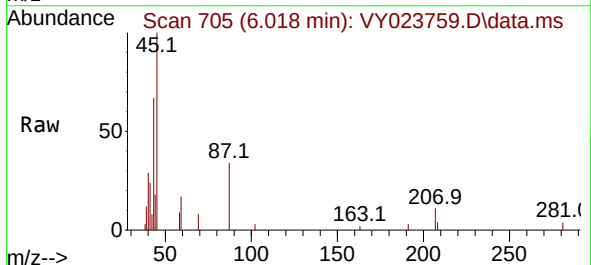
Tgt Ion: 84	Resp: 459
Ion Ratio	Lower Upper
84 100	
49 109.4	81.5 122.3
51 35.7	25.5 38.3
86 66.2	51.2 76.8

Manual Integrations
APPROVED

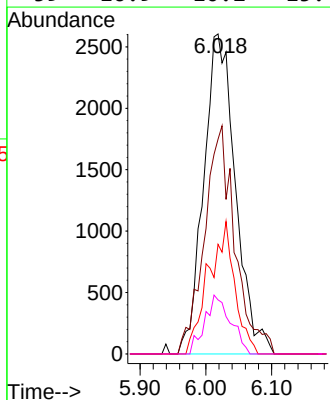
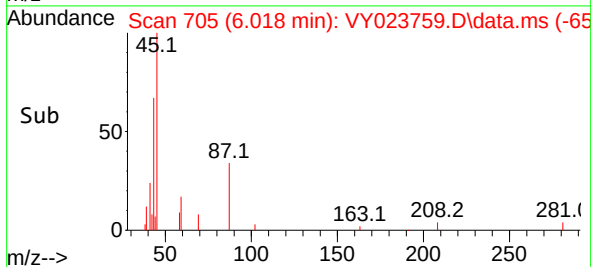
Reviewed By :Amit Patel 11/14/2025
Supervised By :Mahesh Dadoda 11/14/2025

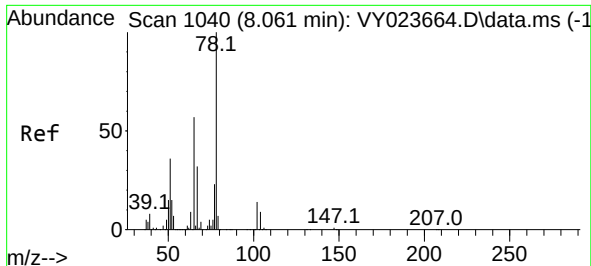


#22
Diisopropyl ether
Concen: 3.992 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY023759.D
Acq: 12 Nov 2025 13:14



Tgt Ion: 45	Resp: 8777
Ion Ratio	Lower Upper
45 100	
43 67.1	44.7 67.1#
87 34.3	27.2 40.8
59 16.9	10.2 15.4#





#33

1,2-Dichloroethane-d4

Concen: 36.510 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VY023759.D

Acq: 12 Nov 2025 13:14

Instrument :

MSVOA_Y

ClientSampleId :

SED-1RE

Tgt Ion: 65 Resp: 28254

Ion Ratio Lower Upper

65 100

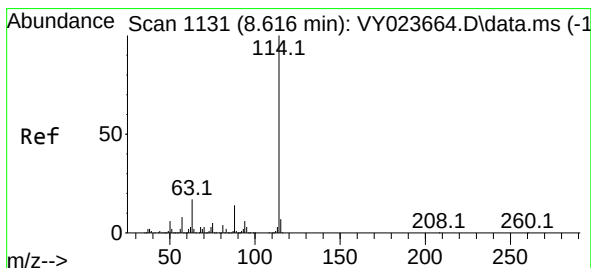
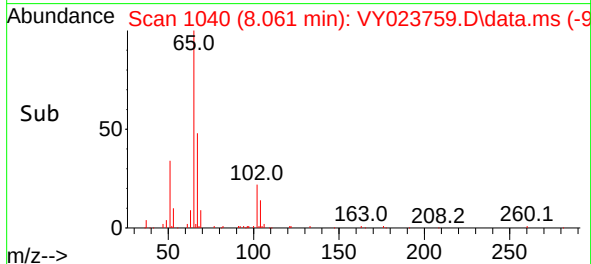
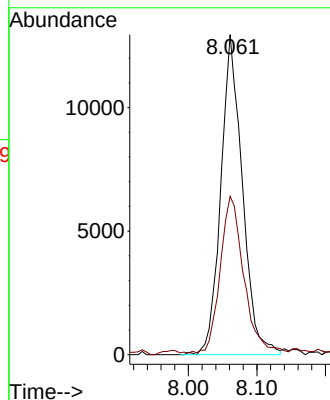
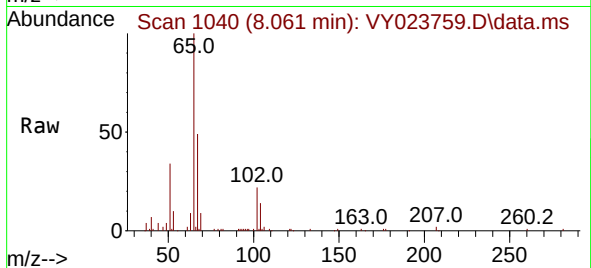
67 53.6 0.0 107.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/14/2025

Supervised By :Mahesh Dadoda 11/14/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023759.D

Acq: 12 Nov 2025 13:14

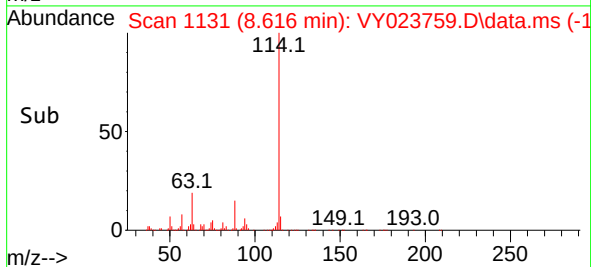
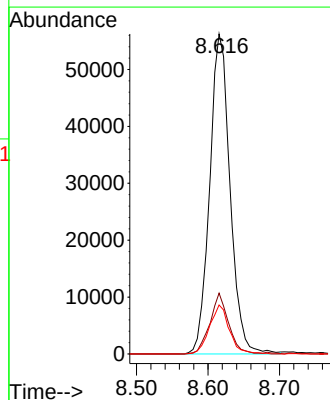
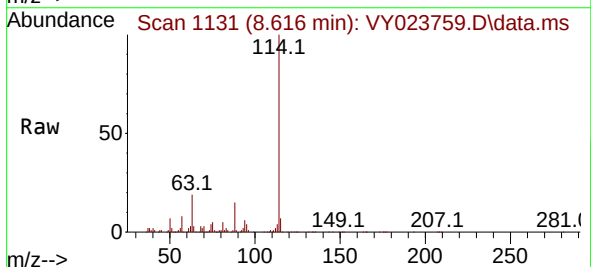
Tgt Ion:114 Resp: 111445

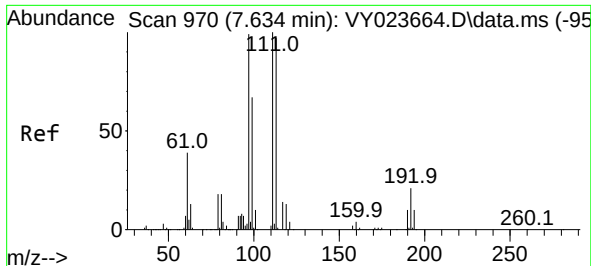
Ion Ratio Lower Upper

114 100

63 19.0 0.0 33.8

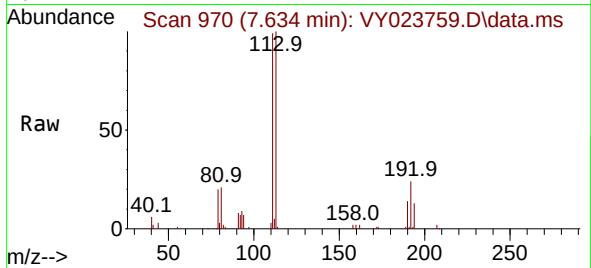
88 15.3 0.0 29.0





#35
Dibromofluoromethane
Concen: 46.750 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023759.D
Acq: 12 Nov 2025 13:14

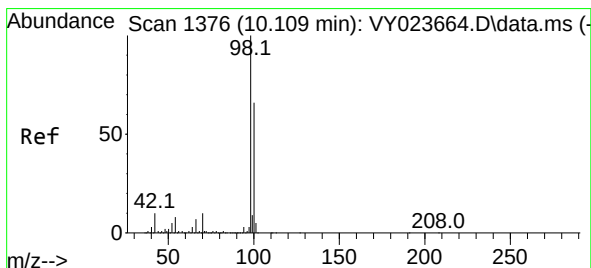
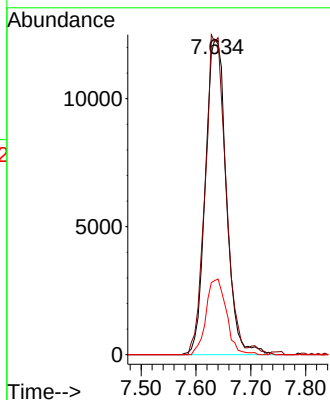
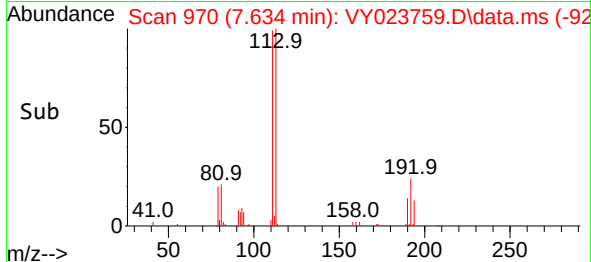
Instrument :
MSVOA_Y
ClientSampleId :
SED-1RE



Tgt Ion:113 Resp: 3255
Ion Ratio Lower Upper
113 100
111 99.9 82.2 123.4
192 23.3 17.3 25.9

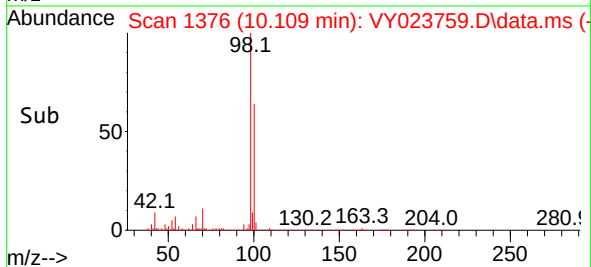
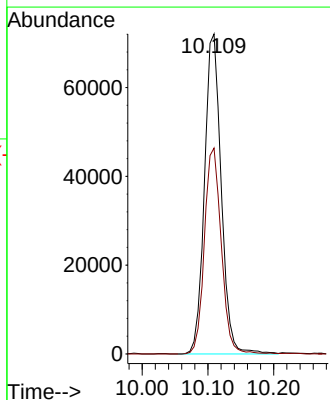
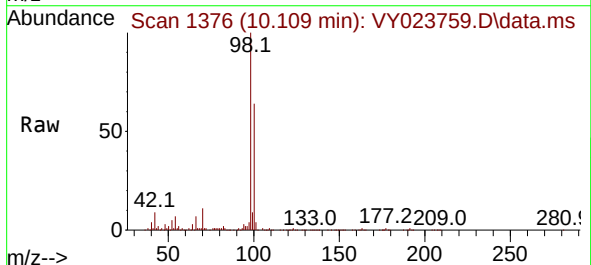
Manual Integrations
APPROVED

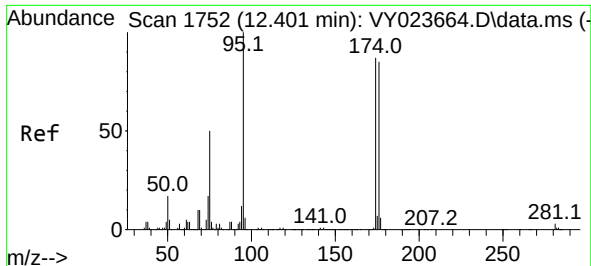
Reviewed By :Amit Patel 11/14/2025
Supervised By :Mahesh Dadoda 11/14/2025



#50
Toluene-d8
Concen: 49.254 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY023759.D
Acq: 12 Nov 2025 13:14

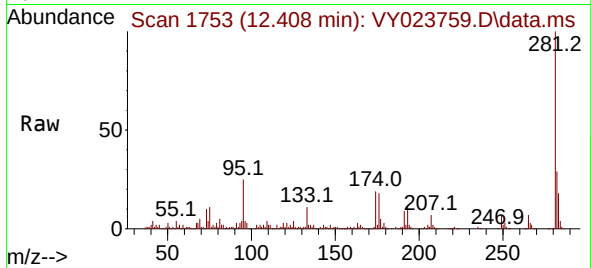
Tgt Ion: 98 Resp: 127782
Ion Ratio Lower Upper
98 100
100 64.8 52.7 79.1





#62
4-Bromofluorobenzene
Concen: 33.618 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023759.D
Acq: 12 Nov 2025 13:14

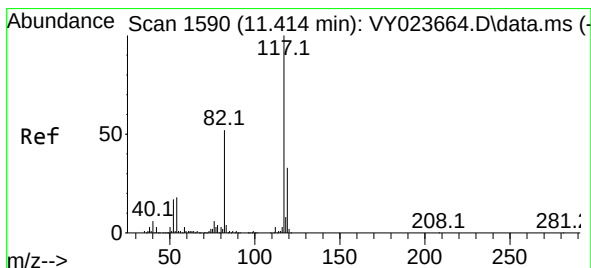
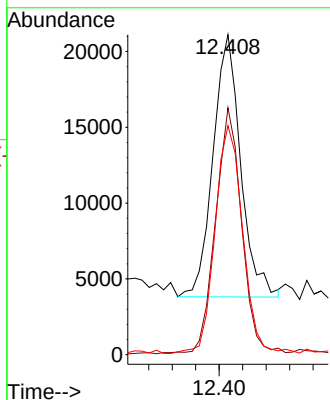
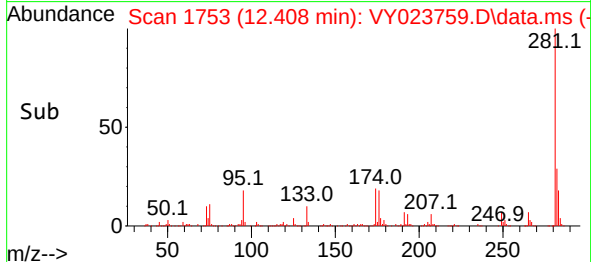
Instrument :
MSVOA_Y
ClientSampleId :
SED-1RE



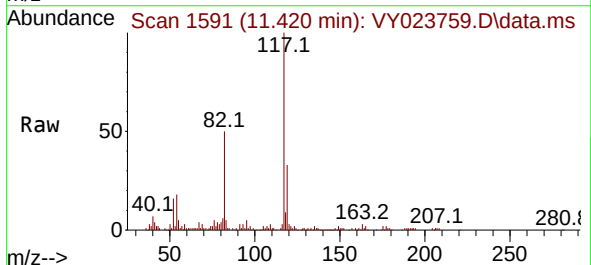
Tgt Ion: 95 Resp: 2820
Ion Ratio Lower Upper
95 100
174 88.8 0.0 184.8
176 86.9 0.0 181.6

Manual Integrations
APPROVED

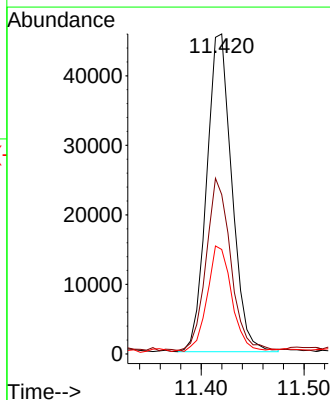
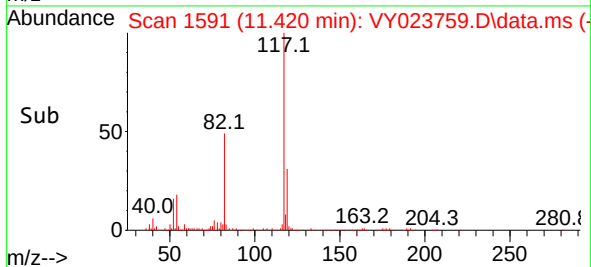
Reviewed By :Amit Patel 11/14/2025
Supervised By :Mahesh Dadoda 11/14/2025

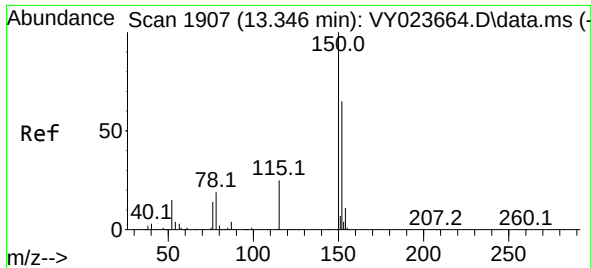


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY023759.D
Acq: 12 Nov 2025 13:14



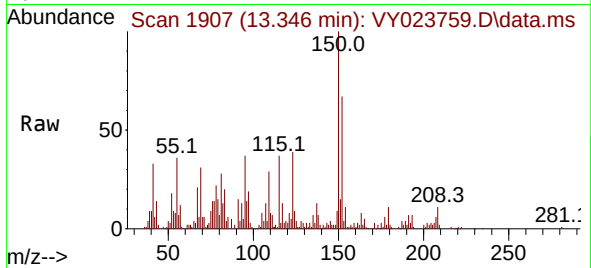
Tgt Ion:117 Resp: 77890
Ion Ratio Lower Upper
117 100
82 49.1 41.2 61.8
119 31.7 26.2 39.2





#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1907
 Delta R.T. -0.000 min
 Lab File: VY023759.D
 Acq: 12 Nov 2025 13:14

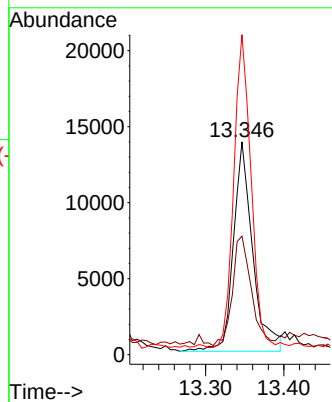
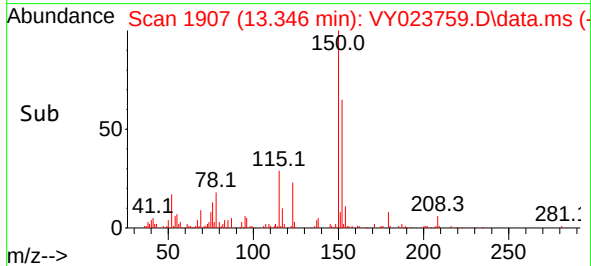
Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-1RE



Tgt Ion	Ratio	Lower	Upper
152	100		
115	51.2	27.5	82.5
150	134.3	0.0	349.0

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/14/2025
 Supervised By :Mahesh Dadoda 11/14/2025



Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: SED-2
Lab Sample ID: Q3586-02
Analytical Method: 8260D
Sample Wt/Vol: 7.66 g

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/06/25
Date Received: 11/07/25
SDG No.: Q3586
Matrix: SOIL
% Solid: 41.4
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.80	U	1	1.80	7.90	ug/Kg	11/11/25 14:15	VW111125
74-87-3	Chloromethane	1.80	U	1	1.80	7.90	ug/Kg	11/11/25 14:15	VW111125
75-01-4	Vinyl Chloride	1.20	U	1	1.20	7.90	ug/Kg	11/11/25 14:15	VW111125
74-83-9	Bromomethane	1.70	U	1	1.70	7.90	ug/Kg	11/11/25 14:15	VW111125
75-00-3	Chloroethane	2.00	U	1	2.00	7.90	ug/Kg	11/11/25 14:15	VW111125
75-69-4	Trichlorofluoromethane	1.90	U	1	1.90	7.90	ug/Kg	11/11/25 14:15	VW111125
76-13-1	1,1,2-Trichlorotrifluoroethane	1.70	U	1	1.70	7.90	ug/Kg	11/11/25 14:15	VW111125
75-35-4	1,1-Dichloroethene	1.60	U	1	1.60	7.90	ug/Kg	11/11/25 14:15	VW111125
67-64-1	Acetone	160		1	7.50	39.4	ug/Kg	11/11/25 14:15	VW111125
75-15-0	Carbon Disulfide	2.90	J	1	1.70	7.90	ug/Kg	11/11/25 14:15	VW111125
1634-04-4	Methyl tert-butyl Ether	1.20	U	1	1.20	7.90	ug/Kg	11/11/25 14:15	VW111125
79-20-9	Methyl Acetate	2.40	U	1	2.40	7.90	ug/Kg	11/11/25 14:15	VW111125
75-09-2	Methylene Chloride	10.6	J	1	5.60	15.8	ug/Kg	11/11/25 14:15	VW111125
156-60-5	trans-1,2-Dichloroethene	1.40	U	1	1.40	7.90	ug/Kg	11/11/25 14:15	VW111125
75-34-3	1,1-Dichloroethane	1.30	U	1	1.30	7.90	ug/Kg	11/11/25 14:15	VW111125
110-82-7	Cyclohexane	1.20	U	1	1.20	7.90	ug/Kg	11/11/25 14:15	VW111125
78-93-3	2-Butanone	52.6		1	10.3	39.4	ug/Kg	11/11/25 14:15	VW111125
56-23-5	Carbon Tetrachloride	1.50	U	1	1.50	7.90	ug/Kg	11/11/25 14:15	VW111125
156-59-2	cis-1,2-Dichloroethene	1.20	U	1	1.20	7.90	ug/Kg	11/11/25 14:15	VW111125
74-97-5	Bromochloromethane	1.80	U	1	1.80	7.90	ug/Kg	11/11/25 14:15	VW111125
67-66-3	Chloroform	1.30	U	1	1.30	7.90	ug/Kg	11/11/25 14:15	VW111125
71-55-6	1,1,1-Trichloroethane	1.50	U	1	1.50	7.90	ug/Kg	11/11/25 14:15	VW111125
108-87-2	Methylcyclohexane	1.40	U	1	1.40	7.90	ug/Kg	11/11/25 14:15	VW111125
71-43-2	Benzene	1.20	U	1	1.20	7.90	ug/Kg	11/11/25 14:15	VW111125
107-06-2	1,2-Dichloroethane	1.20	U	1	1.20	7.90	ug/Kg	11/11/25 14:15	VW111125
79-01-6	Trichloroethene	1.30	U	1	1.30	7.90	ug/Kg	11/11/25 14:15	VW111125
78-87-5	1,2-Dichloropropane	1.40	U	1	1.40	7.90	ug/Kg	11/11/25 14:15	VW111125
75-27-4	Bromodichloromethane	1.20	U	1	1.20	7.90	ug/Kg	11/11/25 14:15	VW111125
108-10-1	4-Methyl-2-Pentanone	5.60	U	1	5.60	39.4	ug/Kg	11/11/25 14:15	VW111125
108-88-3	Toluene	1.20	U	1	1.20	7.90	ug/Kg	11/11/25 14:15	VW111125
10061-02-6	t-1,3-Dichloropropene	1.00	U	1	1.00	7.90	ug/Kg	11/11/25 14:15	VW111125
10061-01-5	cis-1,3-Dichloropropene	0.98	U	1	0.98	7.90	ug/Kg	11/11/25 14:15	VW111125
79-00-5	1,1,2-Trichloroethane	1.50	U	1	1.50	7.90	ug/Kg	11/11/25 14:15	VW111125
591-78-6	2-Hexanone	5.80	U	1	5.80	39.4	ug/Kg	11/11/25 14:15	VW111125
124-48-1	Dibromochloromethane	1.40	U	1	1.40	7.90	ug/Kg	11/11/25 14:15	VW111125
106-93-4	1,2-Dibromoethane	1.40	U	1	1.40	7.90	ug/Kg	11/11/25 14:15	VW111125
127-18-4	Tetrachloroethene	1.70	U	1	1.70	7.90	ug/Kg	11/11/25 14:15	VW111125
108-90-7	Chlorobenzene	1.40	U	1	1.40	7.90	ug/Kg	11/11/25 14:15	VW111125
100-41-4	Ethyl Benzene	1.10	U	1	1.10	7.90	ug/Kg	11/11/25 14:15	VW111125
179601-23-1	m/p-Xylenes	2.00	U	1	2.00	15.8	ug/Kg	11/11/25 14:15	VW111125
95-47-6	o-Xylene	1.30	U	1	1.30	7.90	ug/Kg	11/11/25 14:15	VW111125
100-42-5	Styrene	1.10	U	1	1.10	7.90	ug/Kg	11/11/25 14:15	VW111125
75-25-2	Bromoform	1.40	U	1	1.40	7.90	ug/Kg	11/11/25 14:15	VW111125

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: SED-2
Lab Sample ID: Q3586-02
Analytical Method: 8260D
Sample Wt/Vol: 7.66 g

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/06/25
Date Received: 11/07/25
SDG No.: Q3586
Matrix: SOIL
% Solid: 41.4
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	1.20	U	1	1.20	7.90	ug/Kg	11/11/25 14:15	VW111125
79-34-5	1,1,2,2-Tetrachloroethane	1.90	U	1	1.90	7.90	ug/Kg	11/11/25 14:15	VW111125
541-73-1	1,3-Dichlorobenzene	2.70	U	1	2.70	7.90	ug/Kg	11/11/25 14:15	VW111125
106-46-7	1,4-Dichlorobenzene	2.50	U	1	2.50	7.90	ug/Kg	11/11/25 14:15	VW111125
95-50-1	1,2-Dichlorobenzene	2.30	U	1	2.30	7.90	ug/Kg	11/11/25 14:15	VW111125
96-12-8	1,2-Dibromo-3-Chloropropane	2.90	U	1	2.90	7.90	ug/Kg	11/11/25 14:15	VW111125
120-82-1	1,2,4-Trichlorobenzene	4.70	U	1	4.70	7.90	ug/Kg	11/11/25 14:15	VW111125
87-61-6	1,2,3-Trichlorobenzene	5.00	U	1	5.00	7.90	ug/Kg	11/11/25 14:15	VW111125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	80.6	*		70 (63) - 130 (155)	161%	SPK: 50		
1868-53-7	Dibromofluoromethane	64.7			70 (70) - 130 (134)	129%	SPK: 50		
2037-26-5	Toluene-d8	62.2			70 (74) - 130 (123)	124%	SPK: 50		
460-00-4	4-Bromofluorobenzene	67.6	*		70 (52) - 130 (138)	135%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	283000							
540-36-3	1,4-Difluorobenzene	670000							
3114-55-4	Chlorobenzene-d5	673000							
3855-82-1	1,4-Dichlorobenzene-d4	275000							
TENTATIVE IDENTIFIED COMPOUNDS									
95-63-6	1,2,4-Trimethylbenzene	2.10	J			13.3	ug/Kg		
000824-90-8	1-Phenyl-1-butene	38.8	J			14.8	ug/Kg		
003877-19-8	Naphthalene, 1,2,3,4-tetrahydro-2-	20.9	J			15.4	ug/Kg		
006682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethy	21.2	J			15.6	ug/Kg		
002809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-	28.8	J			16.2	ug/Kg		
004175-54-6	Naphthalene, 1,2,3,4-tetrahydro-1,	51.8	J			16.4	ug/Kg		
002613-76-5	1H-Indene, 2,3-dihydro-1,1,3-trime	21.1	J			16.4	ug/Kg		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032428.D
 Acq On : 11 Nov 2025 14:15
 Operator : SY/MD
 Sample : Q3586-02
 Misc : 7.66g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SED-2

Quant Time: Nov 12 03:49:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

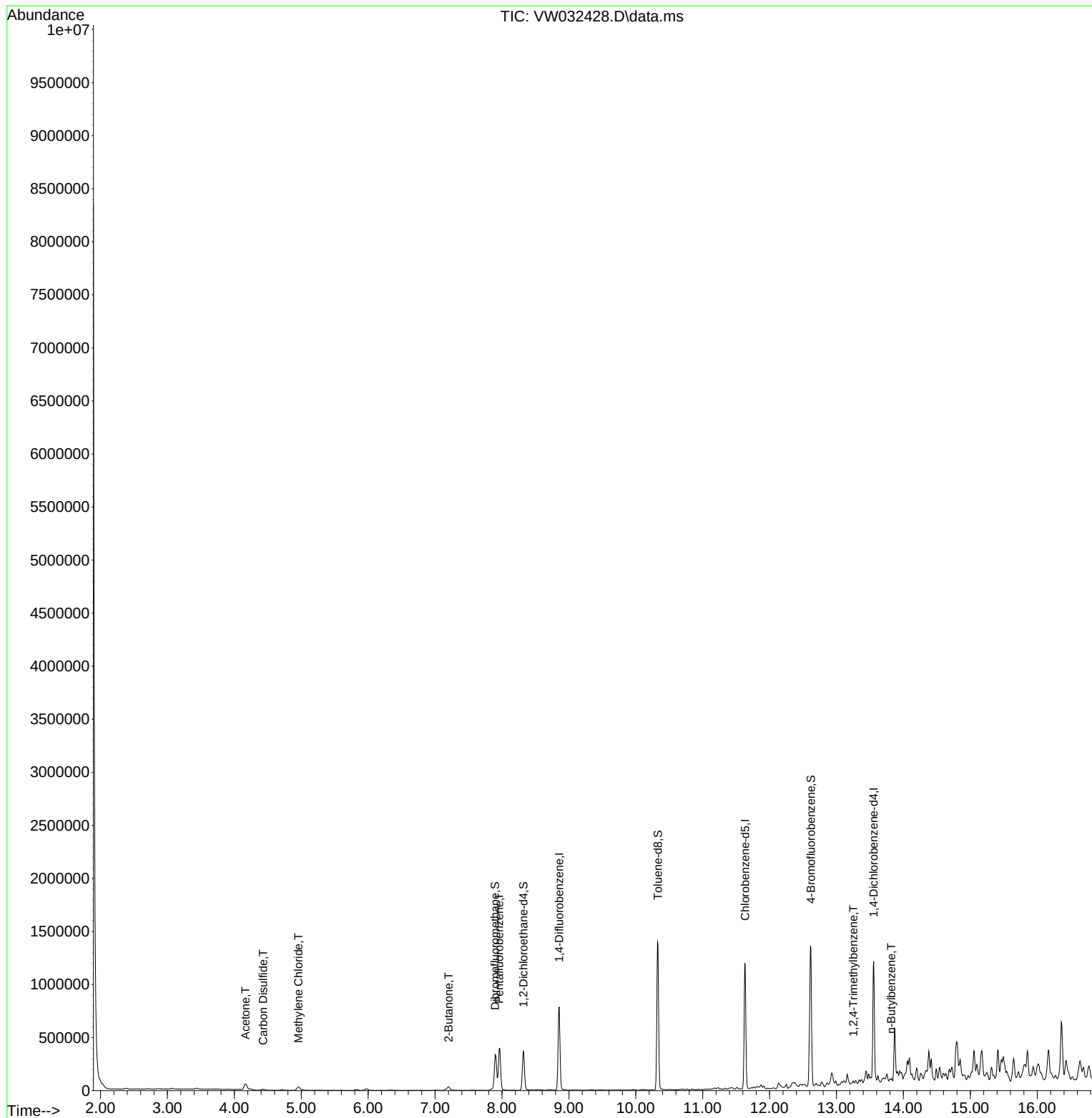
Internal Standards						
1) Pentafluorobenzene	7.959	168	283259	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	670411	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	673114	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	275351	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	294458	80.632	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 161.260%#		
35) Dibromofluoromethane	7.898	113	259724	64.706	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 129.420%		
50) Toluene-d8	10.331	98	957024	62.150	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 124.300%#		
62) 4-Bromofluorobenzene	12.617	95	393409	67.631	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 135.260%		
Target Compounds						
						Qvalue
16) Acetone	4.167	43	108416	99.232	ug/l	99
17) Carbon Disulfide	4.429	76	16719	1.858	ug/l	100
20) Methylene Chloride	4.960	84	26320	6.736	ug/l	91
25) 2-Butanone	7.203	43	53672	33.345	ug/l	99
84) 1,2,4-Trimethylbenzene	13.251	105	22246	1.311	ug/l	99
89) n-Butylbenzene	13.818	91	17808	1.021	ug/l #	77

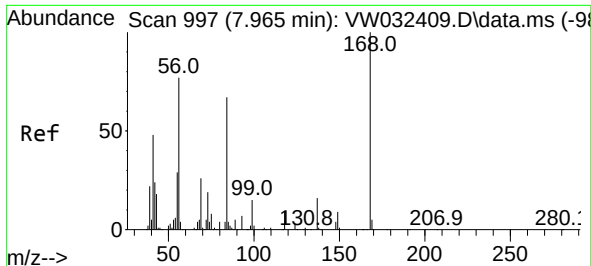
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032428.D
Acq On : 11 Nov 2025 14:15
Operator : SY/MD
Sample : Q3586-02
Misc : 7.66g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SED-2

Quant Time: Nov 12 03:49:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

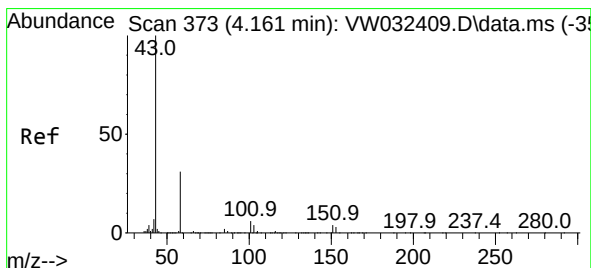
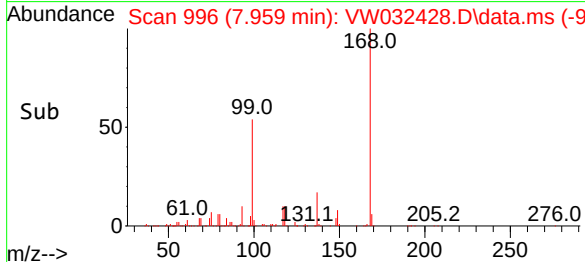
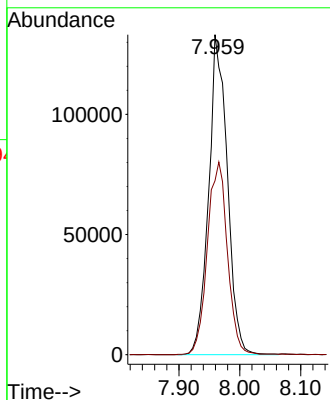
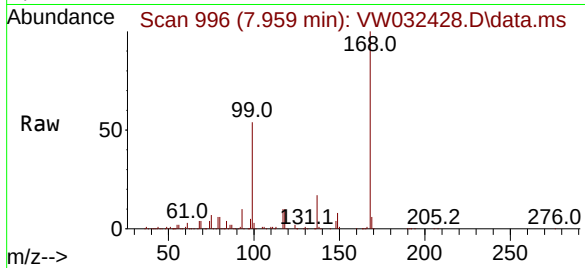




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.006 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

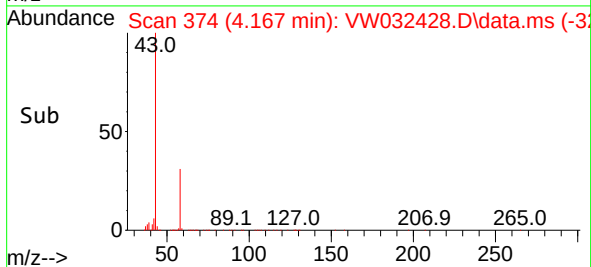
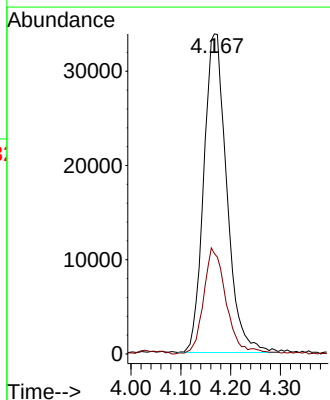
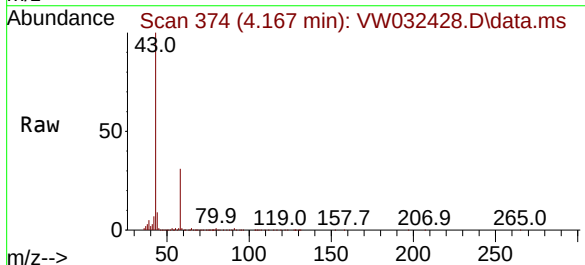
Instrument :
MSVOA_W
ClientSampleId :
SED-2

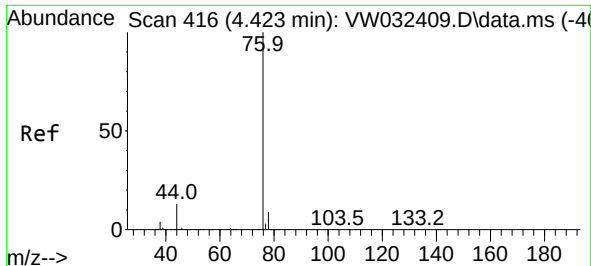
Tgt Ion:168 Resp: 283259
Ion Ratio Lower Upper
168 100
99 54.2 45.4 68.2



#16
Acetone
Concen: 99.232 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

Tgt Ion: 43 Resp: 108416
Ion Ratio Lower Upper
43 100
58 31.3 24.8 37.2

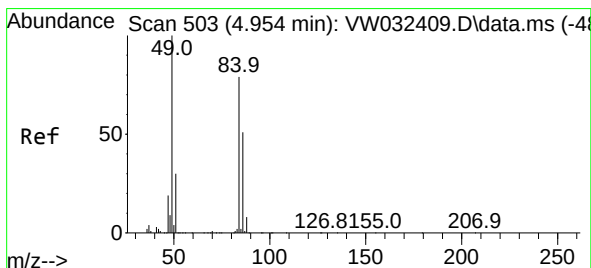
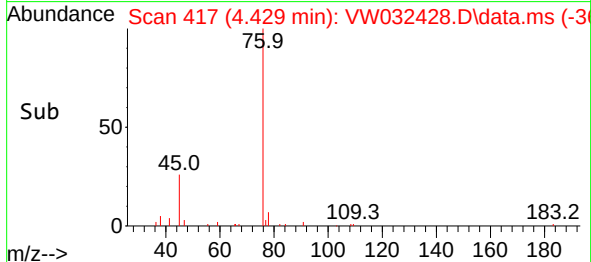
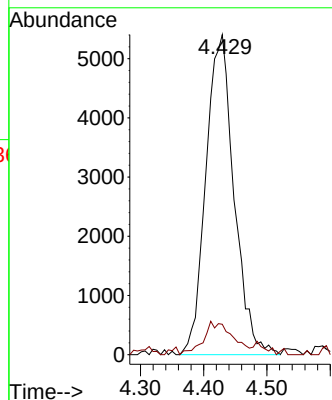
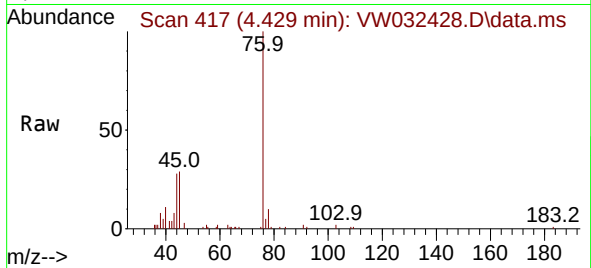




#17
Carbon Disulfide
Concen: 1.858 ug/l
RT: 4.429 min Scan# 416
Delta R.T. 0.006 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

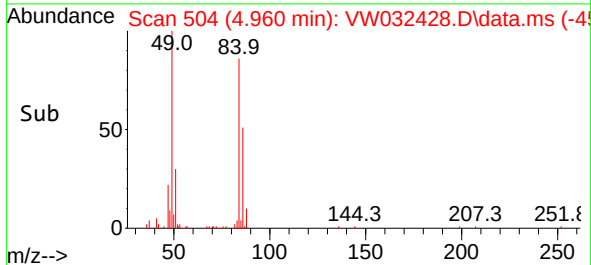
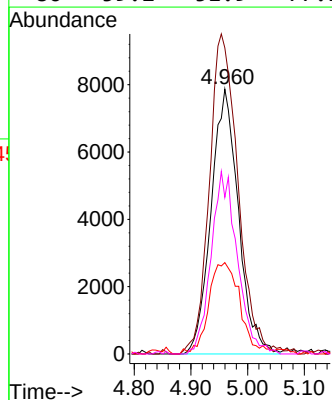
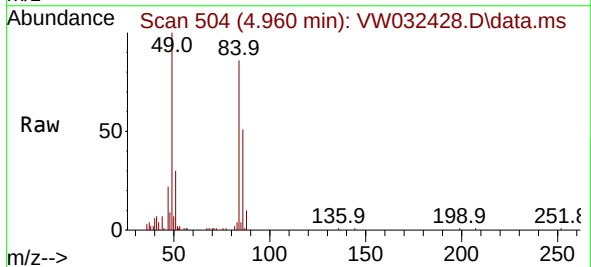
Instrument :
MSVOA_W
ClientSampleId :
SED-2

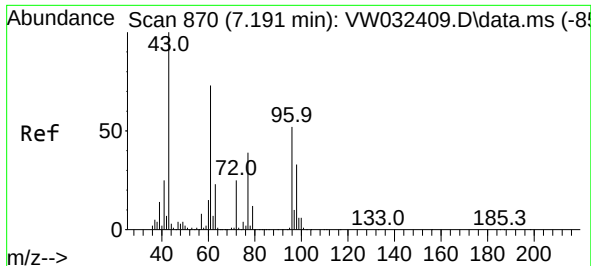
Tgt Ion: 76 Resp: 16719
Ion Ratio Lower Upper
76 100
78 9.5 7.6 11.4



#20
Methylene Chloride
Concen: 6.736 ug/l
RT: 4.960 min Scan# 504
Delta R.T. 0.006 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

Tgt Ion: 84 Resp: 26320
Ion Ratio Lower Upper
84 100
49 115.6 101.5 152.3
51 34.5 30.6 46.0
86 59.2 51.9 77.9

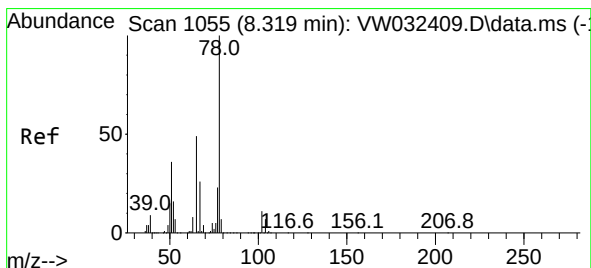
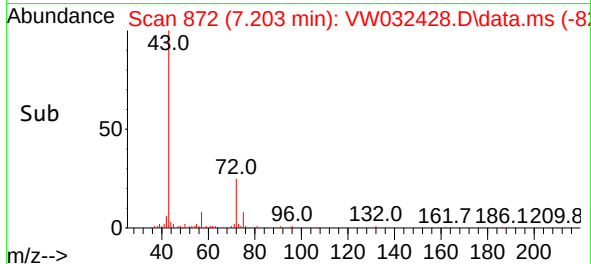
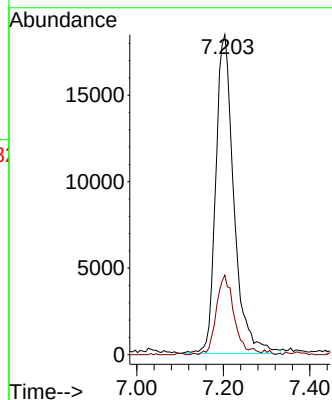
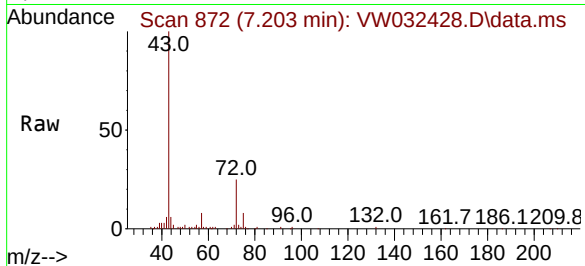




#25
2-Butanone
Concen: 33.345 ug/l
RT: 7.203 min Scan# 81
Delta R.T. 0.012 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

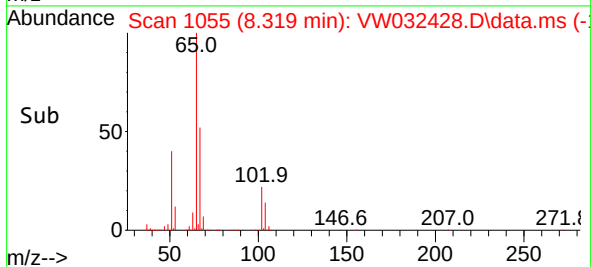
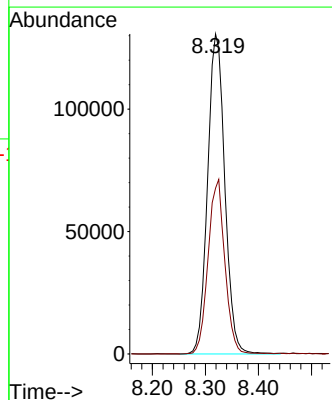
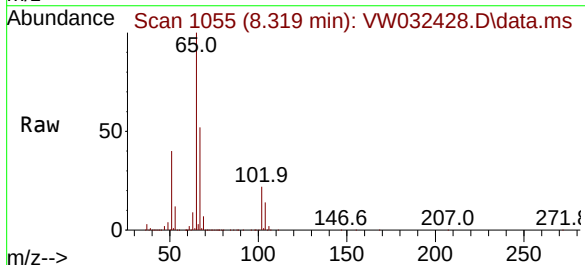
Instrument :
MSVOA_W
ClientSampleId :
SED-2

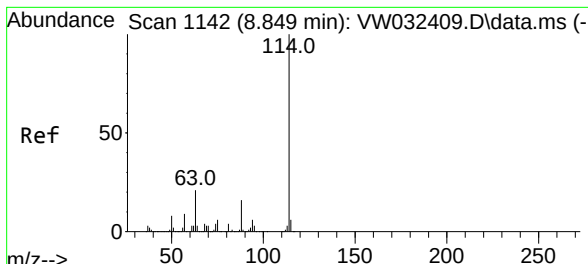
Tgt Ion: 43 Resp: 53672
Ion Ratio Lower Upper
43 100
72 24.5 20.0 30.0



#33
1,2-Dichloroethane-d4
Concen: 80.632 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

Tgt Ion: 65 Resp: 294458
Ion Ratio Lower Upper
65 100
67 53.2 0.0 106.8

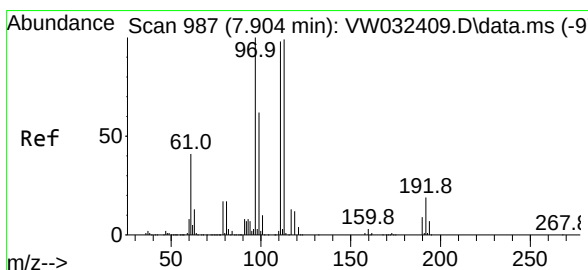
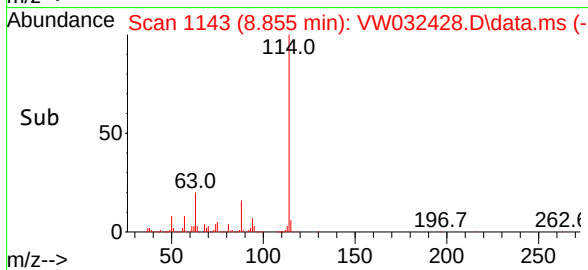
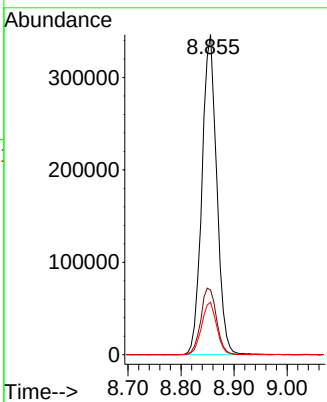
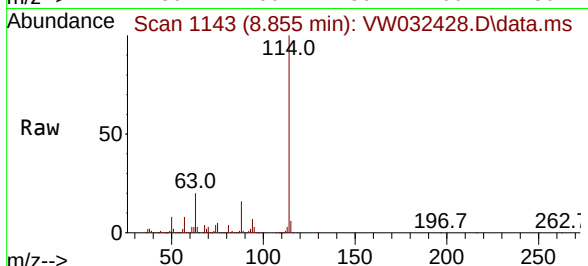




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.855 min Scan# 1143
 Delta R.T. 0.006 min
 Lab File: VW032428.D
 Acq: 11 Nov 2025 14:15

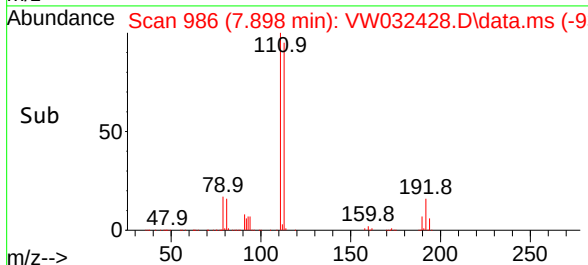
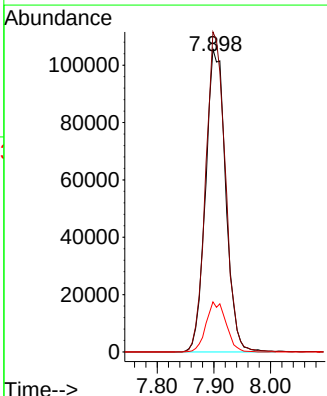
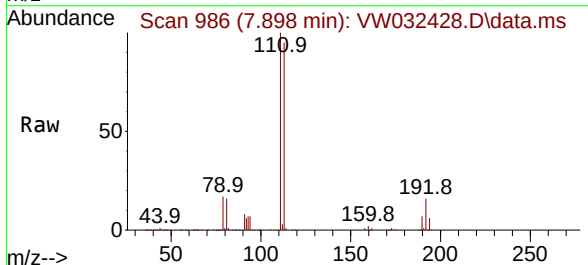
Instrument :
 MSVOA_W
 ClientSampleId :
 SED-2

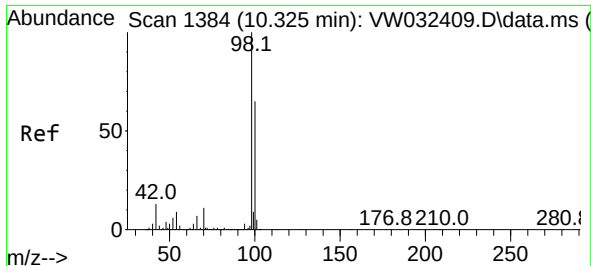
Tgt Ion:	114	Resp:	670411
Ion Ratio	Lower	Upper	
114	100		
63	20.2	0.0	41.8
88	16.4	0.0	32.6



#35
 Dibromofluoromethane
 Concen: 64.706 ug/l
 RT: 7.898 min Scan# 986
 Delta R.T. -0.006 min
 Lab File: VW032428.D
 Acq: 11 Nov 2025 14:15

Tgt Ion:	113	Resp:	259724
Ion Ratio	Lower	Upper	
113	100		
111	103.5	83.1	124.7
192	16.5	13.4	20.2

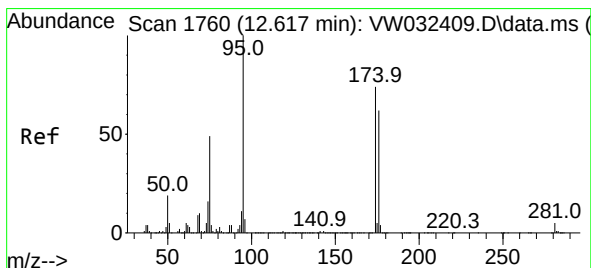
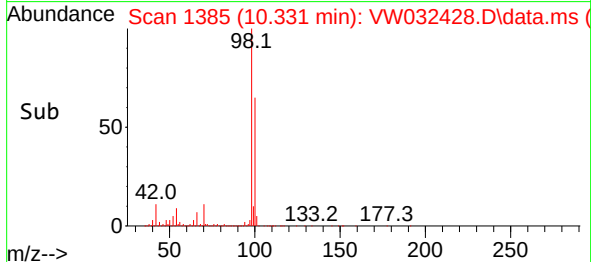
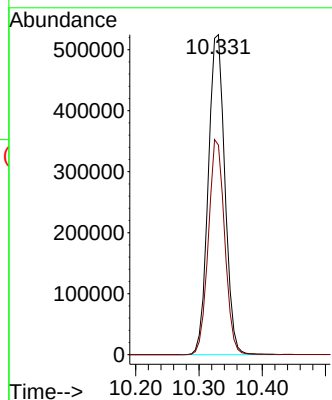
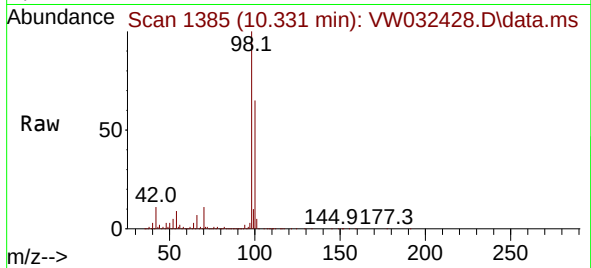




#50
Toluene-d8
Concen: 62.150 ug/l
RT: 10.331 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

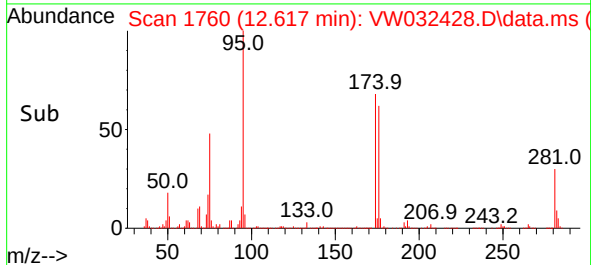
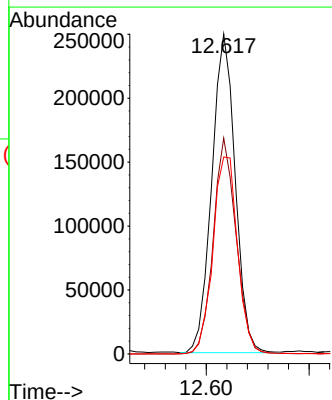
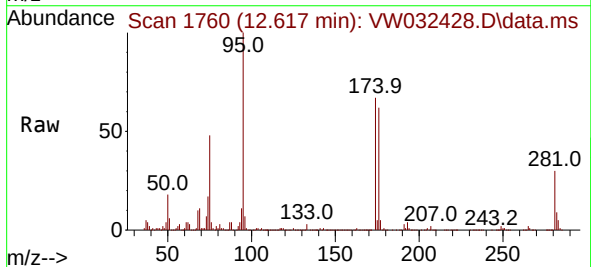
Instrument :
MSVOA_W
ClientSampleId :
SED-2

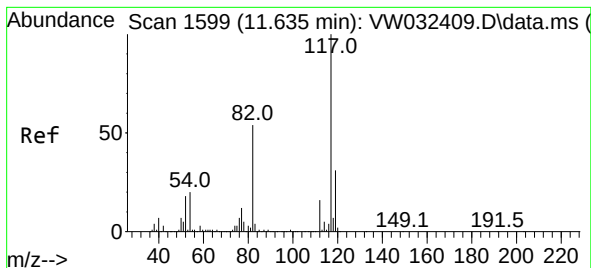
Tgt Ion: 98 Resp: 957024
Ion Ratio Lower Upper
98 100
100 66.0 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 67.631 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

Tgt Ion: 95 Resp: 393409
Ion Ratio Lower Upper
95 100
174 66.4 0.0 135.4
176 65.4 0.0 131.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.635 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW032428.D

Acq: 11 Nov 2025 14:15

Instrument :

MSVOA_W

ClientSampleId :

SED-2

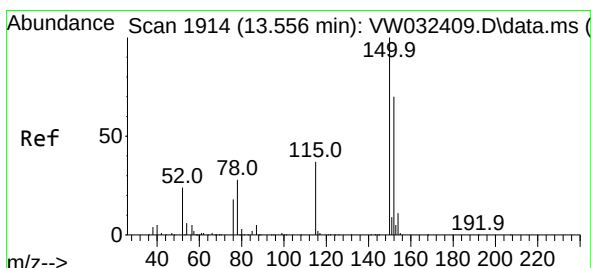
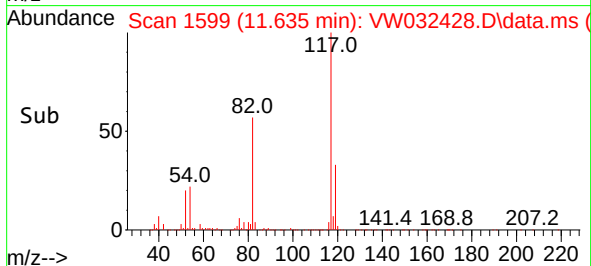
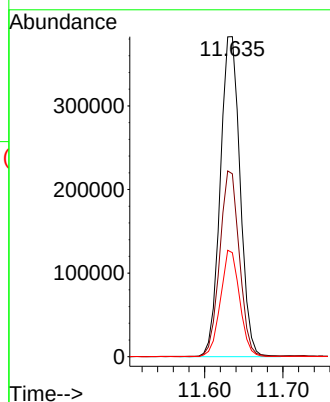
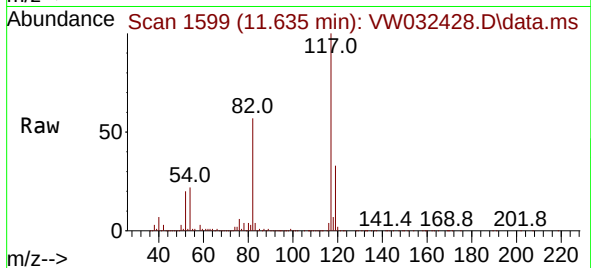
Tgt Ion:117 Resp: 673114

Ion Ratio Lower Upper

117 100

82 57.1 43.0 64.4

119 32.5 25.0 37.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

Lab File: VW032428.D

Acq: 11 Nov 2025 14:15

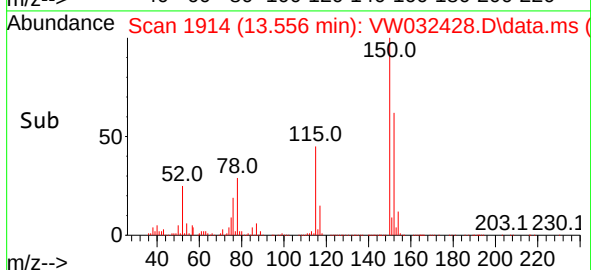
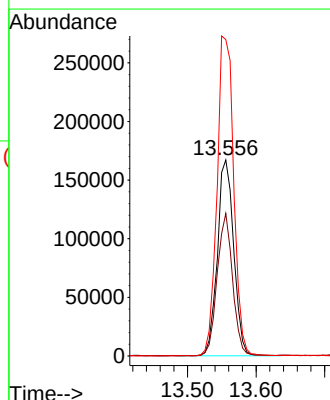
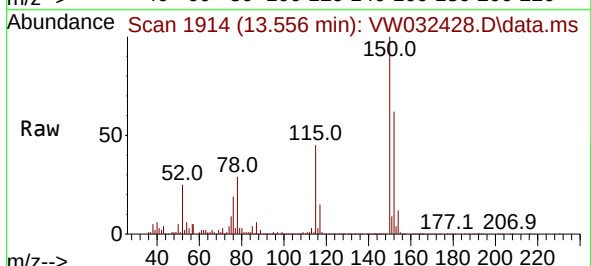
Tgt Ion:152 Resp: 275351

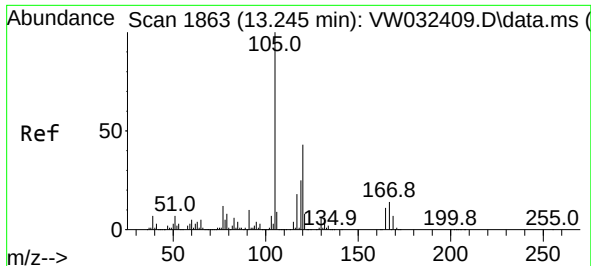
Ion Ratio Lower Upper

152 100

115 68.3 32.8 98.3

150 167.0 0.0 356.6

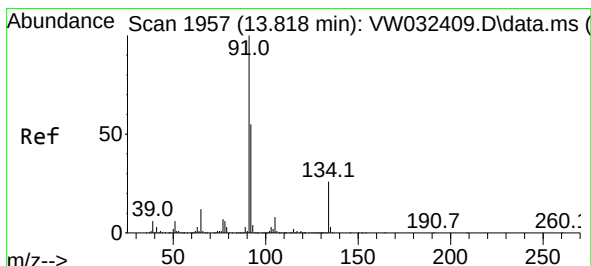
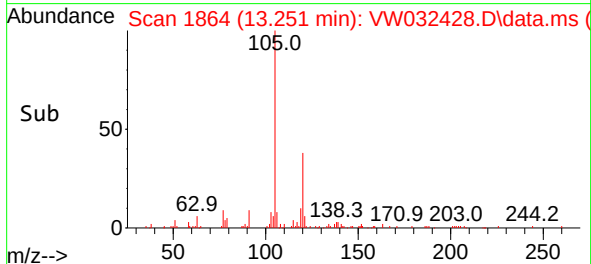
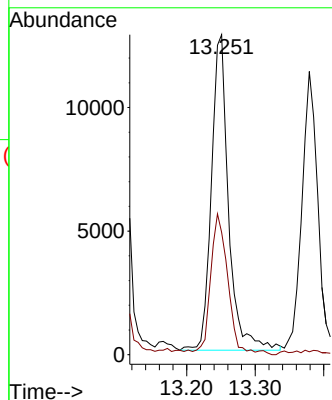
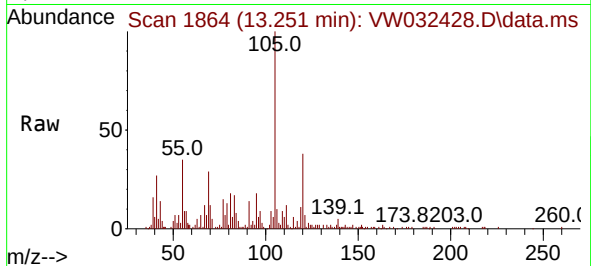




#84
1,2,4-Trimethylbenzene
Concen: 1.311 ug/l
RT: 13.251 min Scan# 1864
Delta R.T. 0.006 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

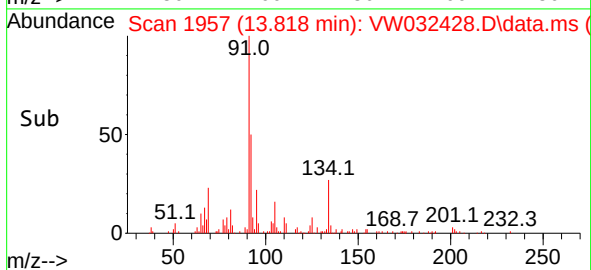
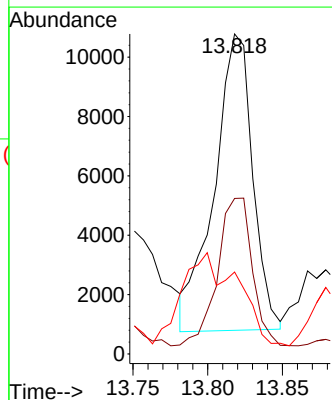
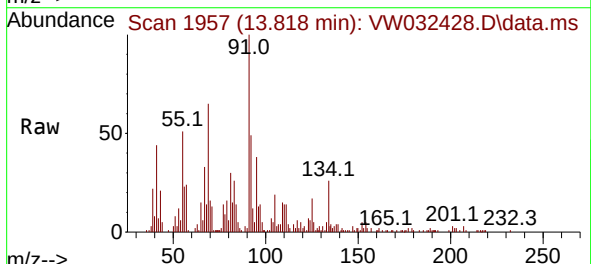
Instrument :
MSVOA_W
ClientSampleId :
SED-2

Tgt Ion:105 Resp: 22246
Ion Ratio Lower Upper
105 100
120 45.1 22.1 66.5



#89
n-Butylbenzene
Concen: 1.021 ug/l
RT: 13.818 min Scan# 1957
Delta R.T. 0.000 min
Lab File: VW032428.D
Acq: 11 Nov 2025 14:15

Tgt Ion: 91 Resp: 17808
Ion Ratio Lower Upper
91 100
92 47.4 27.4 82.2
134 0.0 12.4 37.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032428.D
 Acq On : 11 Nov 2025 14:15
 Operator : SY/MD
 Sample : Q3586-02
 Misc : 7.66g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SED-2

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Title : SW846 8260

Signal : TIC: VW032428.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.167	365	374	383	rBV2	51083	158723	5.98%	0.615%
2	4.960	490	504	517	rBV2	30806	115942	4.37%	0.449%
3	7.203	857	872	884	rBV2	32530	115935	4.37%	0.449%
4	7.898	970	986	992	rBV	338461	893076	33.65%	3.458%
5	7.965	992	997	1008	rVB2	392842	878767	33.12%	3.403%
6	8.319	1045	1055	1067	rBV	367359	830332	31.29%	3.215%
7	8.855	1131	1143	1161	rVB	784139	1590290	59.93%	6.158%
8	10.325	1376	1384	1401	rBV	1397165	2573641	96.98%	9.965%
9	11.629	1591	1598	1608	rBV	1189413	2079439	78.36%	8.052%
10	12.135	1674	1681	1692	rBV2	54158	174595	6.58%	0.676%
11	12.367	1709	1719	1720	rBV6	40918	121417	4.58%	0.470%
12	12.611	1751	1759	1767	rBV2	1325197	2653666	100.00%	10.275%
13	12.782	1783	1787	1794	rVB4	44777	92999	3.50%	0.360%
14	12.928	1804	1811	1818	rBV4	107716	259631	9.78%	1.005%
15	13.160	1845	1849	1856	rVB2	91306	159439	6.01%	0.617%
16	13.440	1888	1895	1899	rBV6	108028	225344	8.49%	0.873%
17	13.556	1908	1914	1921	rVV	1120700	1833342	69.09%	7.099%
18	13.617	1921	1924	1930	rVB3	60282	86640	3.26%	0.335%
19	13.751	1943	1946	1951	rVB	65782	99777	3.76%	0.386%
20	13.867	1960	1965	1970	rBV2	488488	807808	30.44%	3.128%
21	14.062	1986	1997	1999	rBV3	169002	393531	14.83%	1.524%
22	14.086	1999	2001	2006	rVB	162259	237682	8.96%	0.920%
23	14.196	2014	2019	2025	rVB5	116181	217935	8.21%	0.844%
24	14.263	2025	2030	2035	rBV5	67557	148277	5.59%	0.574%
25	14.342	2036	2043	2044	rVV6	85012	185136	6.98%	0.717%
26	14.379	2045	2049	2052	rVV2	261875	450736	16.99%	1.745%
27	14.415	2052	2055	2063	rVB2	194459	314603	11.86%	1.218%
28	14.489	2063	2067	2071	rBV3	107444	161052	6.07%	0.624%
29	14.543	2071	2076	2081	rVV5	99694	178102	6.71%	0.690%
30	14.690	2095	2100	2102	rBV2	94459	166726	6.28%	0.646%
31	14.726	2103	2106	2111	rVB4	95970	145250	5.47%	0.562%
32	14.793	2111	2117	2123	rBV4	335470	901747	33.98%	3.492%
33	15.056	2155	2160	2164	rBV2	197226	327847	12.35%	1.269%
34	15.098	2164	2167	2172	rVB2	94753	137958	5.20%	0.534%
35	15.171	2172	2179	2186	rVB4	239373	546767	20.60%	2.117%
36	15.318	2198	2203	2207	rBV3	114549	219476	8.27%	0.850%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032428.D
Acq On : 11 Nov 2025 14:15
Operator : SY/MD
Sample : Q3586-02
Misc : 7.66g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SED-2

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Title : SW846 8260

37	15.415	2213	2219	2223	rBV	259177	485956	18.31%	1.882%
38	15.464	2223	2227	2229	rBV4	110331	174192	6.56%	0.674%
39	15.647	2250	2257	2263	rBV2	213570	492618	18.56%	1.907%
40	15.805	2276	2283	2287	rBV4	108168	294698	11.11%	1.141%
41	15.854	2287	2291	2298	rVB2	235188	414279	15.61%	1.604%
42	15.940	2301	2305	2310	rBV5	82117	135409	5.10%	0.524%
43	16.013	2311	2317	2323	rBV4	101328	275862	10.40%	1.068%
44	16.165	2335	2342	2356	rVB2	262658	670468	25.27%	2.596%
45	16.360	2365	2374	2381	rBV2	530815	1204154	45.38%	4.662%
46	16.433	2381	2386	2397	rVB3	175360	489977	18.46%	1.897%
47	16.641	2411	2420	2425	rBV6	175933	511028	19.26%	1.979%
48	16.775	2436	2442	2444	rBV3	99201	194150	7.32%	0.752%

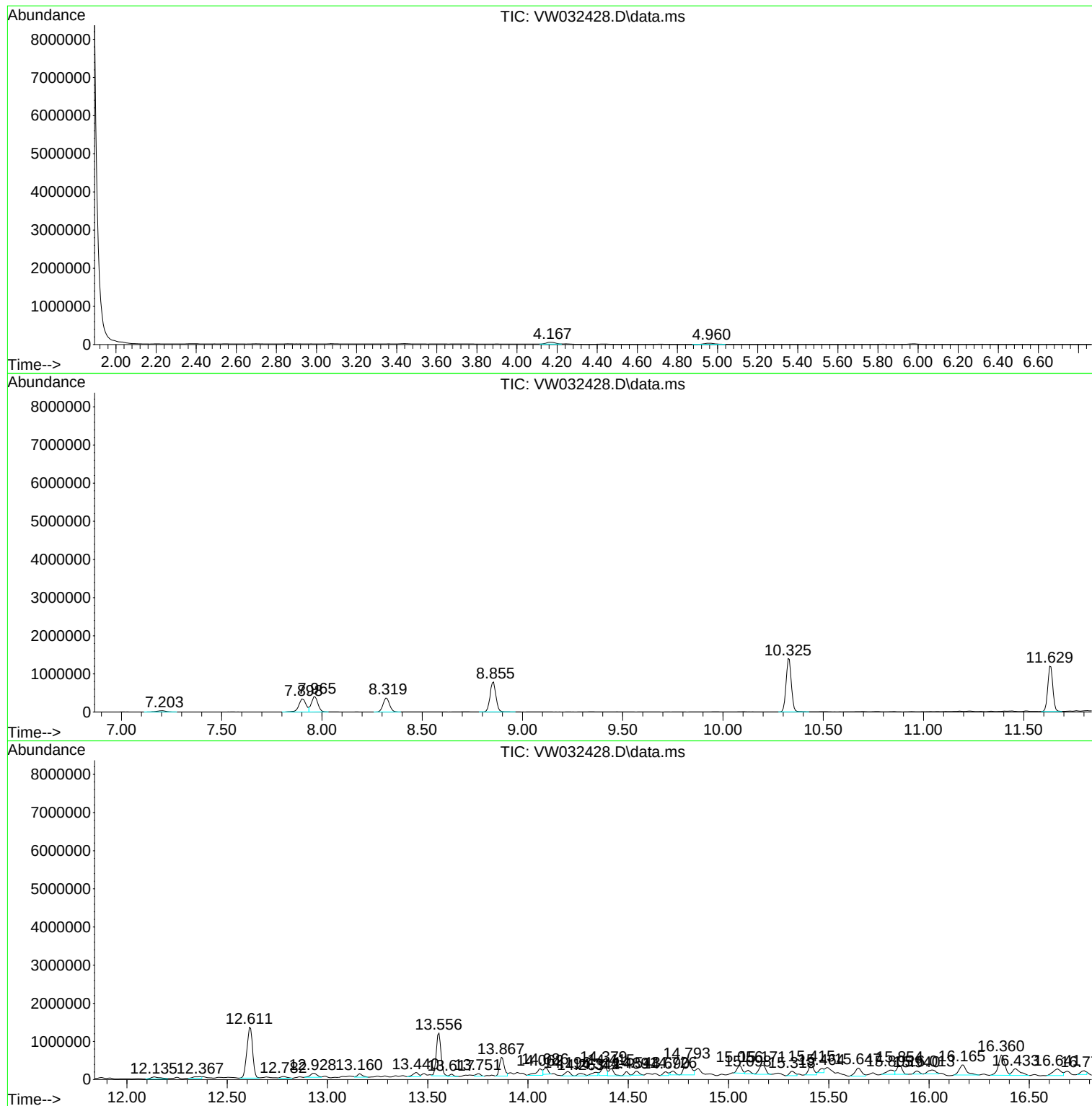
Sum of corrected areas: 25826419

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032428.D
Acq On : 11 Nov 2025 14:15
Operator : SY/MD
Sample : Q3586-02
Misc : 7.66g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SED-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032428.D
Acq On : 11 Nov 2025 14:15
Operator : SY/MD
Sample : Q3586-02
Misc : 7.66g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SED-2

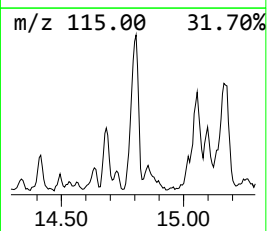
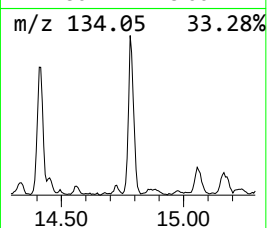
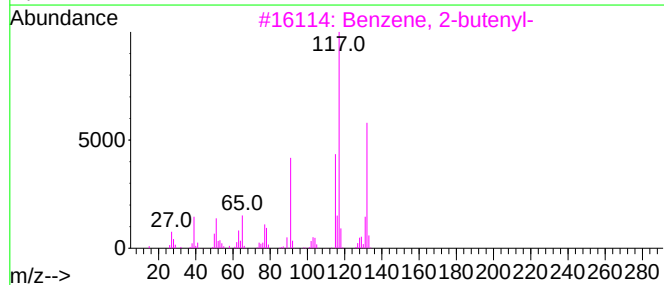
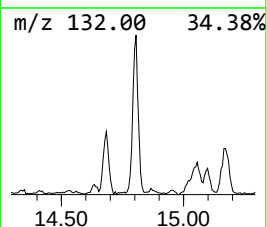
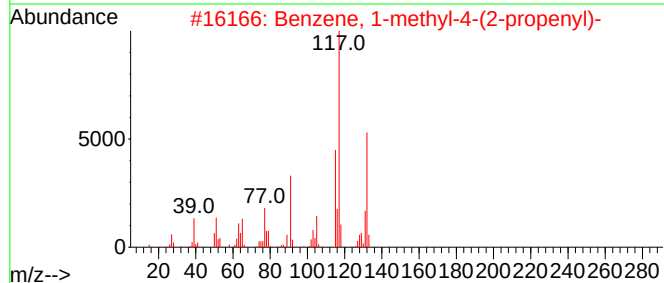
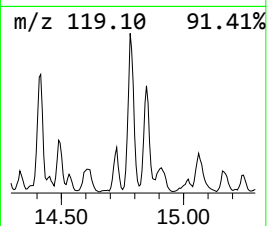
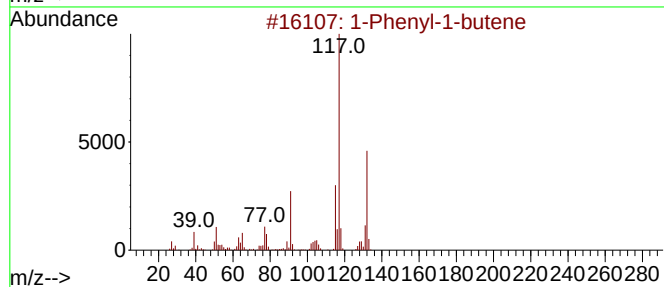
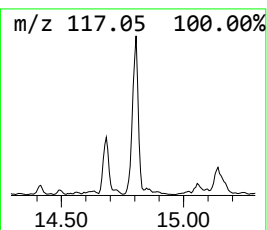
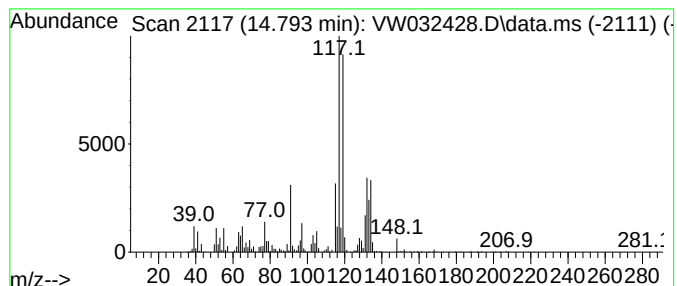
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.793	24.59 ug/l	901747	1,4-Dichlorobenzene-d4	13.556

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1-Phenyl-1-butene	132	C10H12	000824-90-8	87
2			Benzene, 1-methyl-4-(2-propenyl)-	132	C10H12	003333-13-9	80
3			Benzene, 2-butenyl-	132	C10H12	001560-06-1	70
4			1-Methyl-2-phenylcyclopropane	132	C10H12	003145-76-4	55
5			Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	55



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032428.D
Acq On : 11 Nov 2025 14:15
Operator : SY/MD
Sample : Q3586-02
Misc : 7.66g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SED-2

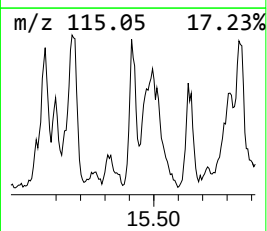
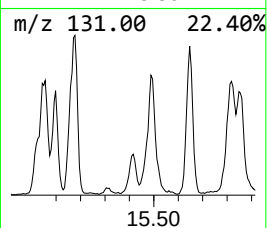
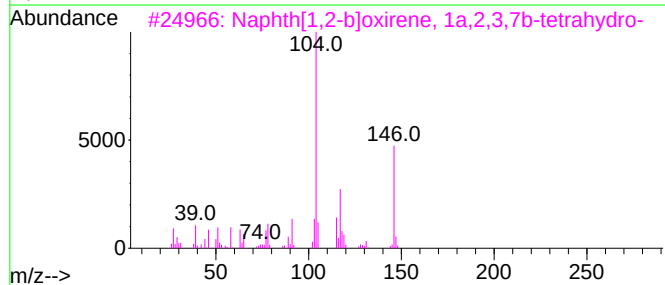
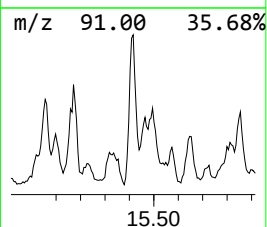
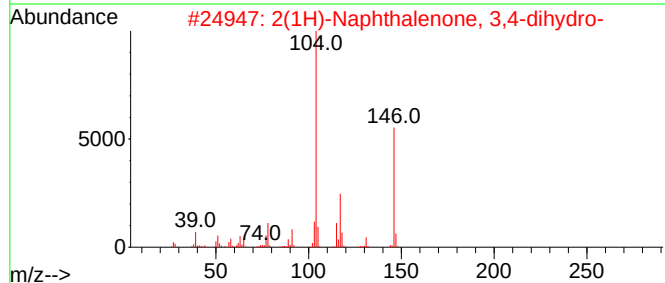
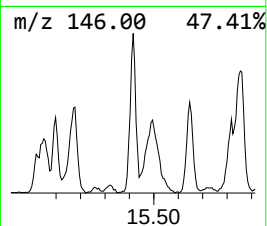
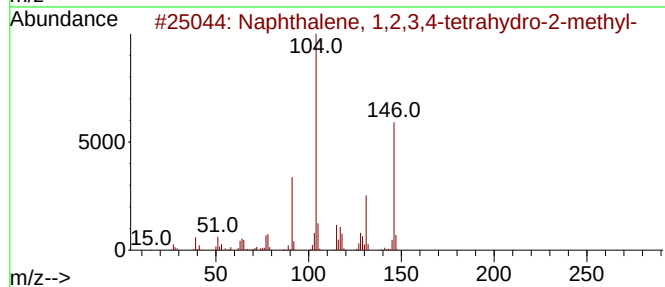
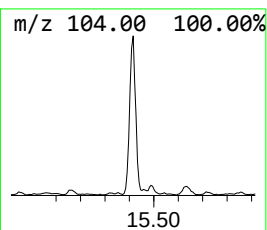
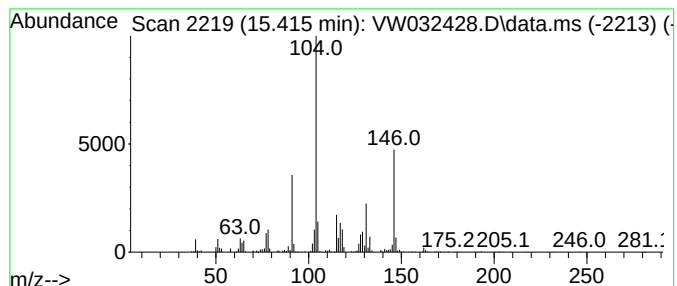
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

Peak Number 4 Naphthalene, 1,2,3,4-tetrahydro-... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.415	13.25 ug/l	485956	1,4-Dichlorobenzene-d4	13.556

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	96
2			2(1H)-Naphthalenone, 3,4-dihydro-	146	C10H10O	000530-93-8	68
3			Naphth[1,2-b]oxirene, 1a,2,3,7b-...	146	C10H10O	002461-34-9	58
4			Naphthalene, 2-ethyl-1,2,3,4-tet...	160	C12H16	032367-54-7	43
5			Benzene, 3-cyclohexen-1-yl-	158	C12H14	004994-16-5	43



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032428.D
Acq On : 11 Nov 2025 14:15
Operator : SY/MD
Sample : Q3586-02
Misc : 7.66g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SED-2

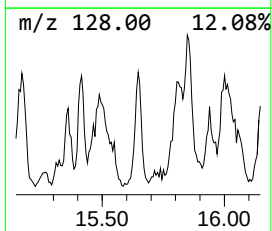
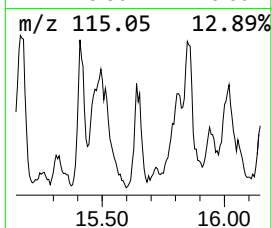
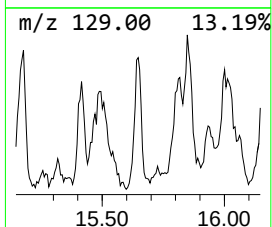
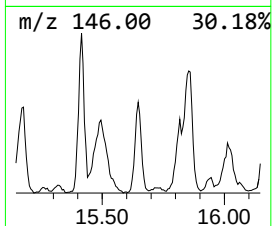
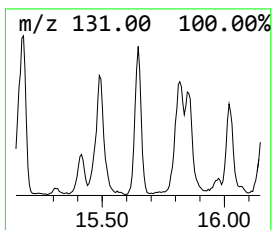
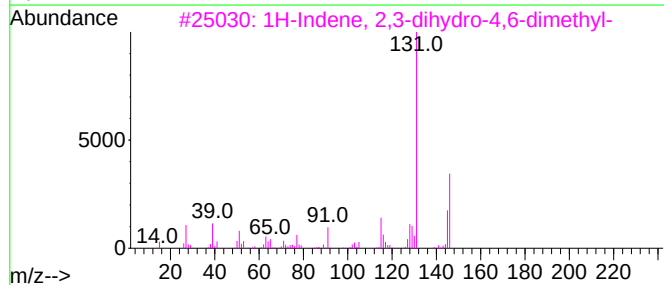
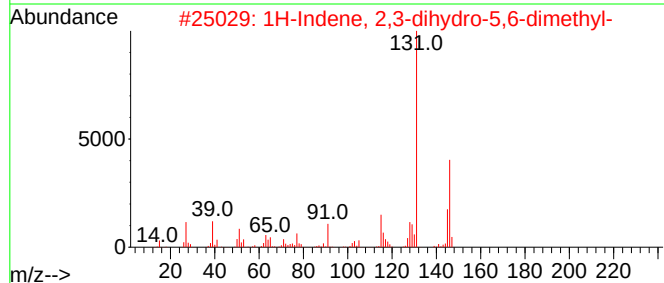
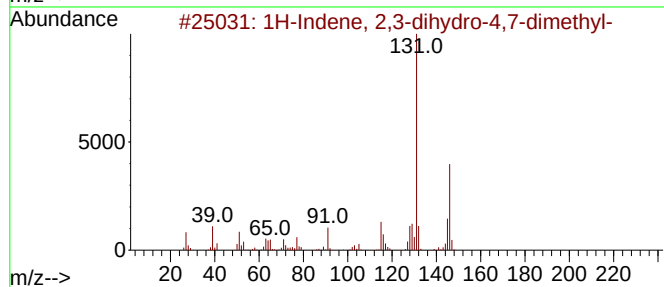
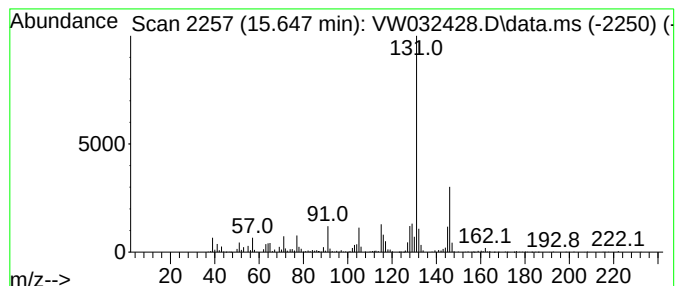
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

Peak Number 5 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.647	13.44 ug/l	492618	1,4-Dichlorobenzene-d4	13.556

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	96
2			1H-Indene, 2,3-dihydro-5,6-dimet...	146	C11H14	001075-22-5	96
3			1H-Indene, 2,3-dihydro-4,6-dimet...	146	C11H14	001685-82-1	95
4			1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	95
5			1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	94



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032428.D
Acq On : 11 Nov 2025 14:15
Operator : SY/MD
Sample : Q3586-02
Misc : 7.66g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SED-2

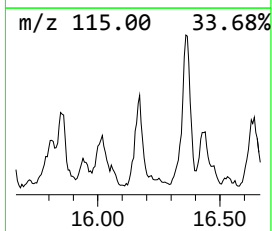
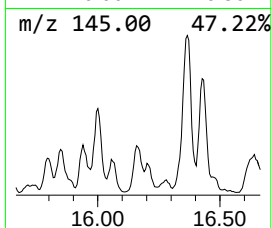
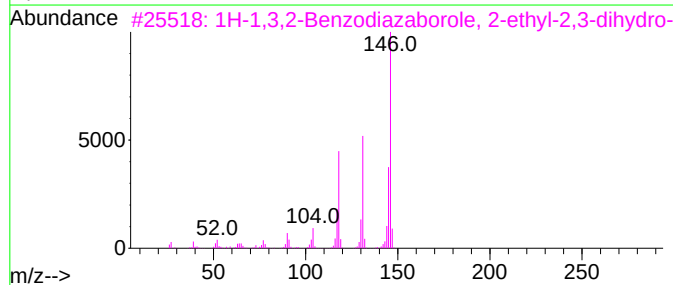
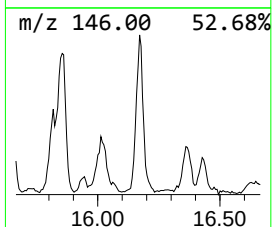
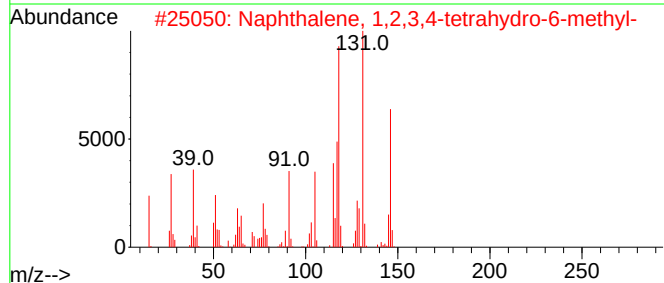
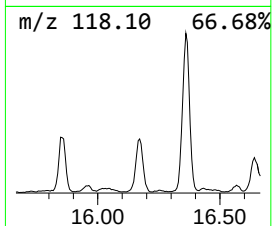
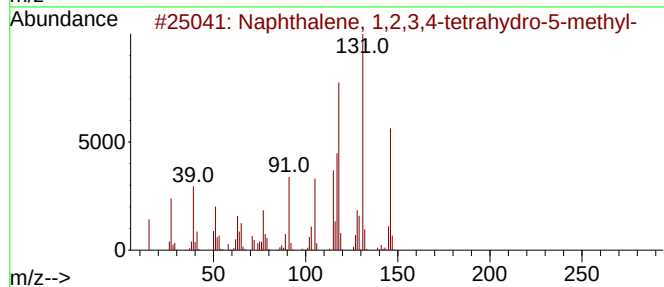
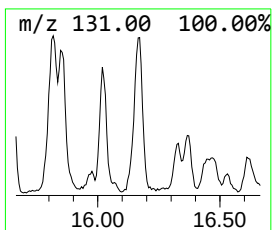
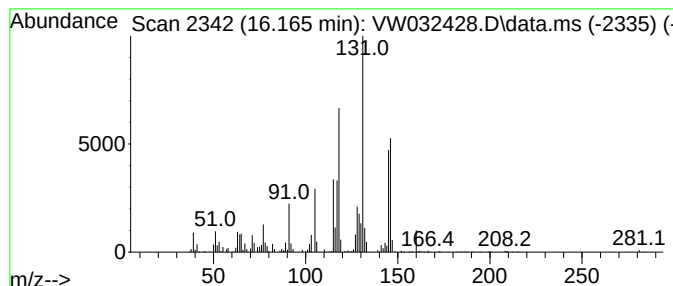
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Quant Title : SW846 8260

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

Peak Number 7 Naphthalene, 1,2,3,4-tetrahydro-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.165	18.29 ug/l	670468	1,4-Dichlorobenzene-d4	13.556

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	89
2			Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	78
3			1H-1,3,2-Benzodiazaborole, 2-eth...	146	C8H11BN2	074663-81-3	68
4			2-Propyn-1-ol, 3-(4-methylphenyl)-	146	C10H10O	016017-24-6	58
5			1H-Benzimidazole, 5,6-dimethyl-	146	C9H10N2	000582-60-5	58



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032428.D
Acq On : 11 Nov 2025 14:15
Operator : SY/MD
Sample : Q3586-02
Misc : 7.66g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SED-2

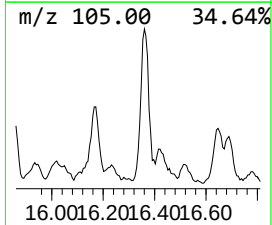
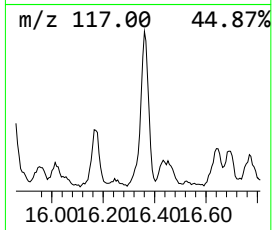
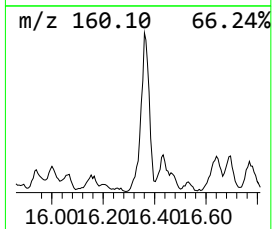
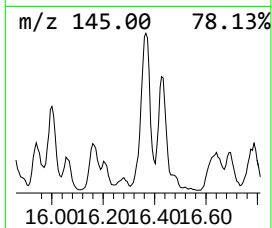
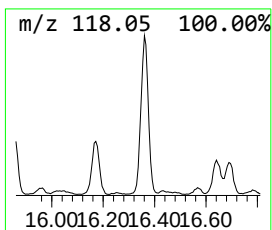
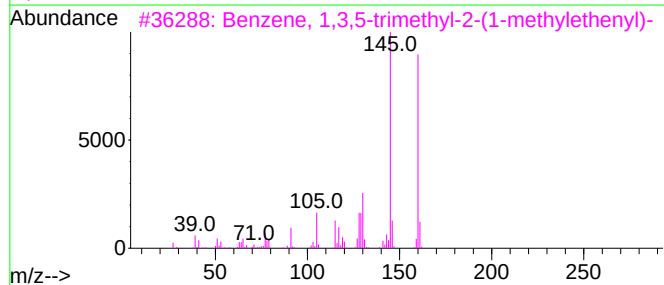
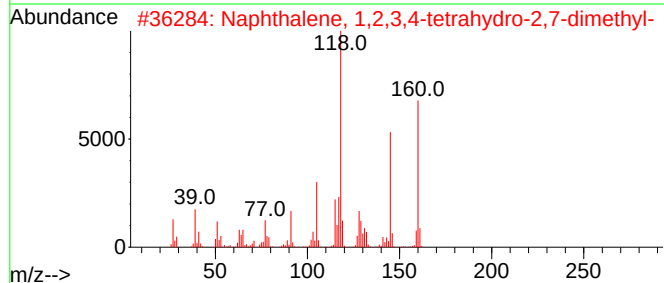
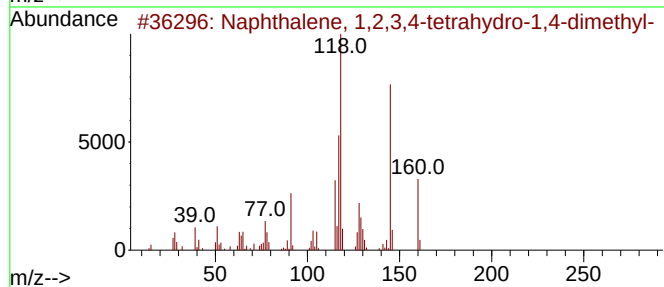
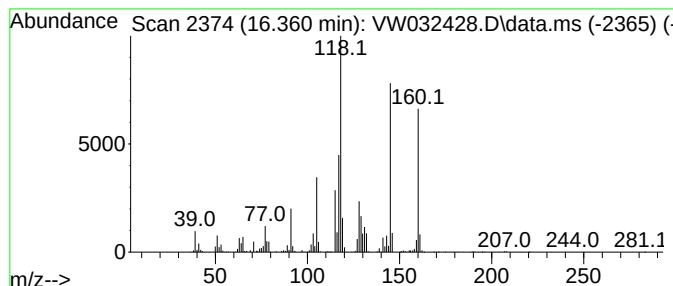
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

Peak Number 8 Naphthalene, 1,2,3,4-tetrahydro-... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.360	32.84 ug/l	1204150	1,4-Dichlorobenzene-d4	13.556

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	004175-54-6	97
2			Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	013065-07-1	91
3			Benzene, 1,3,5-trimethyl-2-(1-me...	160	C12H16	014679-13-1	70
4			Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	007524-63-2	64
5			1(2H)-Naphthalenone, 3,4-dihydro...	160	C11H12O	014944-23-1	58



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032428.D
Acq On : 11 Nov 2025 14:15
Operator : SY/MD
Sample : Q3586-02
Misc : 7.66g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SED-2

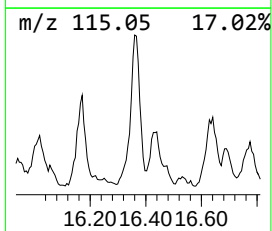
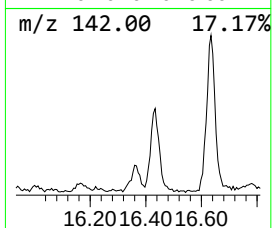
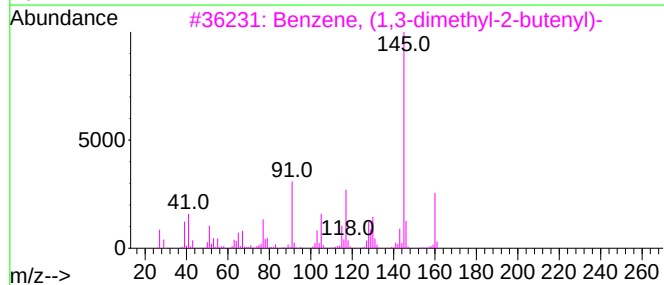
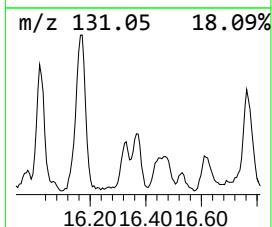
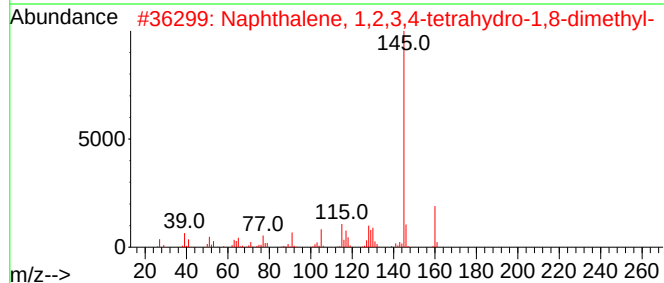
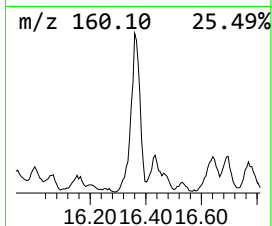
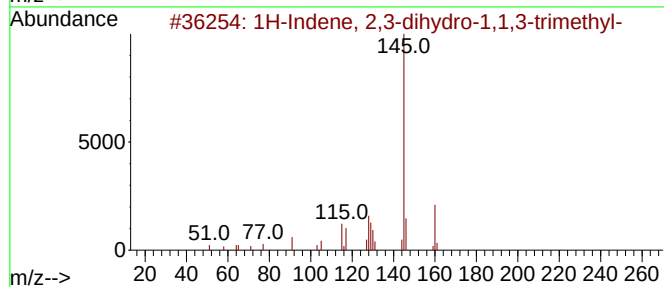
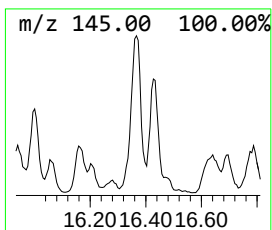
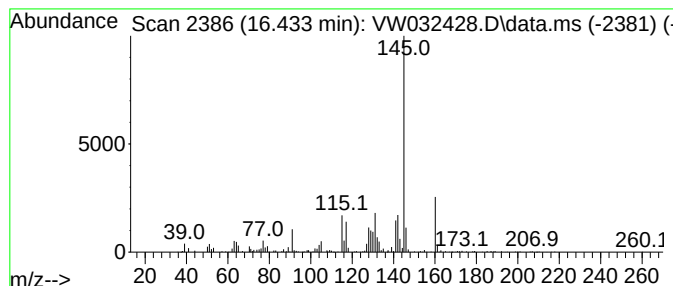
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

Peak Number 9 1H-Indene, 2,3-dihydro-1,1,... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.433	13.36 ug/l	489977	1,4-Dichlorobenzene-d4	13.556

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1H-Indene, 2,3-dihydro-1,1,3-tri...	160	C12H16	002613-76-5	87
2			Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	025419-33-4	87
3			Benzene, (1,3-dimethyl-2-butenyl)-	160	C12H16	050704-01-3	87
4			1H-Indene, 2,3-dihydro-1,1,5-tri...	160	C12H16	040650-41-7	81
5			Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	001985-59-7	81



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032428.D
Acq On : 11 Nov 2025 14:15
Operator : SY/MD
Sample : Q3586-02
Misc : 7.66g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SED-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
1-Phenyl-1-butene	14.793	24.6	ug/l	901747	4	13.556	1833340	50.0
Naphthalene, 1,...	15.415	13.3	ug/l	485956	4	13.556	1833340	50.0
1H-Indene, 2,3-...	15.647	13.4	ug/l	492618	4	13.556	1833340	50.0
Naphthalene, 1,...	16.165	18.3	ug/l	670468	4	13.556	1833340	50.0
Naphthalene, 1,...	16.360	32.8	ug/l	1204150	4	13.556	1833340	50.0
1H-Indene, 2,3-...	16.433	13.4	ug/l	489977	4	13.556	1833340	50.0

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: SED-2RE
Lab Sample ID: Q3586-02RE
Analytical Method: 8260D
Sample Wt/Vol: 8.48 g

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/06/25
Date Received: 11/07/25
SDG No.: Q3586
Matrix: SOIL
% Solid: 41.4
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.60	U	1	1.60	7.10	ug/Kg	11/12/25 13:38	VY111225
74-87-3	Chloromethane	1.60	U	1	1.60	7.10	ug/Kg	11/12/25 13:38	VY111225
75-01-4	Vinyl Chloride	1.10	U	1	1.10	7.10	ug/Kg	11/12/25 13:38	VY111225
74-83-9	Bromomethane	1.50	U	1	1.50	7.10	ug/Kg	11/12/25 13:38	VY111225
75-00-3	Chloroethane	1.80	U	1	1.80	7.10	ug/Kg	11/12/25 13:38	VY111225
75-69-4	Trichlorofluoromethane	1.70	U	1	1.70	7.10	ug/Kg	11/12/25 13:38	VY111225
76-13-1	1,1,2-Trichlorotrifluoroethane	1.50	U	1	1.50	7.10	ug/Kg	11/12/25 13:38	VY111225
75-35-4	1,1-Dichloroethene	1.40	U	1	1.40	7.10	ug/Kg	11/12/25 13:38	VY111225
67-64-1	Acetone	120		1	6.80	35.6	ug/Kg	11/12/25 13:38	VY111225
75-15-0	Carbon Disulfide	1.50	U	1	1.50	7.10	ug/Kg	11/12/25 13:38	VY111225
1634-04-4	Methyl tert-butyl Ether	1.00	U	1	1.00	7.10	ug/Kg	11/12/25 13:38	VY111225
79-20-9	Methyl Acetate	2.20	U	1	2.20	7.10	ug/Kg	11/12/25 13:38	VY111225
75-09-2	Methylene Chloride	5.00	U	1	5.00	14.2	ug/Kg	11/12/25 13:38	VY111225
156-60-5	trans-1,2-Dichloroethene	1.20	U	1	1.20	7.10	ug/Kg	11/12/25 13:38	VY111225
75-34-3	1,1-Dichloroethane	1.10	U	1	1.10	7.10	ug/Kg	11/12/25 13:38	VY111225
110-82-7	Cyclohexane	1.10	U	1	1.10	7.10	ug/Kg	11/12/25 13:38	VY111225
78-93-3	2-Butanone	34.8	J	1	9.30	35.6	ug/Kg	11/12/25 13:38	VY111225
56-23-5	Carbon Tetrachloride	1.40	U	1	1.40	7.10	ug/Kg	11/12/25 13:38	VY111225
156-59-2	cis-1,2-Dichloroethene	1.10	U	1	1.10	7.10	ug/Kg	11/12/25 13:38	VY111225
74-97-5	Bromochloromethane	1.60	U	1	1.60	7.10	ug/Kg	11/12/25 13:38	VY111225
67-66-3	Chloroform	1.20	U	1	1.20	7.10	ug/Kg	11/12/25 13:38	VY111225
71-55-6	1,1,1-Trichloroethane	1.30	U	1	1.30	7.10	ug/Kg	11/12/25 13:38	VY111225
108-87-2	Methylcyclohexane	1.30	U	1	1.30	7.10	ug/Kg	11/12/25 13:38	VY111225
71-43-2	Benzene	1.10	U	1	1.10	7.10	ug/Kg	11/12/25 13:38	VY111225
107-06-2	1,2-Dichloroethane	1.10	U	1	1.10	7.10	ug/Kg	11/12/25 13:38	VY111225
79-01-6	Trichloroethene	1.20	U	1	1.20	7.10	ug/Kg	11/12/25 13:38	VY111225
78-87-5	1,2-Dichloropropane	1.30	U	1	1.30	7.10	ug/Kg	11/12/25 13:38	VY111225
75-27-4	Bromodichloromethane	1.10	U	1	1.10	7.10	ug/Kg	11/12/25 13:38	VY111225
108-10-1	4-Methyl-2-Pentanone	5.10	U	1	5.10	35.6	ug/Kg	11/12/25 13:38	VY111225
108-88-3	Toluene	1.10	U	1	1.10	7.10	ug/Kg	11/12/25 13:38	VY111225
10061-02-6	t-1,3-Dichloropropene	0.93	U	1	0.93	7.10	ug/Kg	11/12/25 13:38	VY111225
10061-01-5	cis-1,3-Dichloropropene	0.88	U	1	0.88	7.10	ug/Kg	11/12/25 13:38	VY111225
79-00-5	1,1,2-Trichloroethane	1.30	U	1	1.30	7.10	ug/Kg	11/12/25 13:38	VY111225
591-78-6	2-Hexanone	5.30	U	1	5.30	35.6	ug/Kg	11/12/25 13:38	VY111225
124-48-1	Dibromochloromethane	1.20	U	1	1.20	7.10	ug/Kg	11/12/25 13:38	VY111225
106-93-4	1,2-Dibromoethane	1.30	U	1	1.30	7.10	ug/Kg	11/12/25 13:38	VY111225
127-18-4	Tetrachloroethene	1.50	U	1	1.50	7.10	ug/Kg	11/12/25 13:38	VY111225
108-90-7	Chlorobenzene	1.30	U	1	1.30	7.10	ug/Kg	11/12/25 13:38	VY111225
100-41-4	Ethyl Benzene	0.95	U	1	0.95	7.10	ug/Kg	11/12/25 13:38	VY111225
179601-23-1	m/p-Xylenes	1.80	U	1	1.80	14.2	ug/Kg	11/12/25 13:38	VY111225
95-47-6	o-Xylene	1.20	U	1	1.20	7.10	ug/Kg	11/12/25 13:38	VY111225
100-42-5	Styrene	1.00	U	1	1.00	7.10	ug/Kg	11/12/25 13:38	VY111225
75-25-2	Bromoform	1.20	U	1	1.20	7.10	ug/Kg	11/12/25 13:38	VY111225

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: SED-2RE
Lab Sample ID: Q3586-02RE
Analytical Method: 8260D
Sample Wt/Vol: 8.48 g

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/06/25
Date Received: 11/07/25
SDG No.: Q3586
Matrix: SOIL
% Solid: 41.4
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	1.10	U	1	1.10	7.10	ug/Kg	11/12/25 13:38	VY111225
79-34-5	1,1,2,2-Tetrachloroethane	1.70	U	1	1.70	7.10	ug/Kg	11/12/25 13:38	VY111225
541-73-1	1,3-Dichlorobenzene	2.40	U	1	2.40	7.10	ug/Kg	11/12/25 13:38	VY111225
106-46-7	1,4-Dichlorobenzene	2.20	U	1	2.20	7.10	ug/Kg	11/12/25 13:38	VY111225
95-50-1	1,2-Dichlorobenzene	2.10	U	1	2.10	7.10	ug/Kg	11/12/25 13:38	VY111225
96-12-8	1,2-Dibromo-3-Chloropropane	2.60	U	1	2.60	7.10	ug/Kg	11/12/25 13:38	VY111225
120-82-1	1,2,4-Trichlorobenzene	4.20	U	1	4.20	7.10	ug/Kg	11/12/25 13:38	VY111225
87-61-6	1,2,3-Trichlorobenzene	4.50	U	1	4.50	7.10	ug/Kg	11/12/25 13:38	VY111225
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	88.5	*		70 (63) - 130 (155)	177%	SPK: 50		
1868-53-7	Dibromofluoromethane	66.4	*		70 (70) - 130 (134)	133%	SPK: 50		
2037-26-5	Toluene-d8	48.9			70 (74) - 130 (123)	98%	SPK: 50		
460-00-4	4-Bromofluorobenzene	47.0			70 (52) - 130 (138)	94%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	69400							
540-36-3	1,4-Difluorobenzene	118000							
3114-55-4	Chlorobenzene-d5	116000							
3855-82-1	1,4-Dichlorobenzene-d4	41900							

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\VY111225\
 Data File : VY023760.D
 Acq On : 12 Nov 2025 13:38
 Operator : SY/MD
 Sample : Q3586-02RE
 Misc : 8.48g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-2RE

Quant Time: Nov 14 03:38:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

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

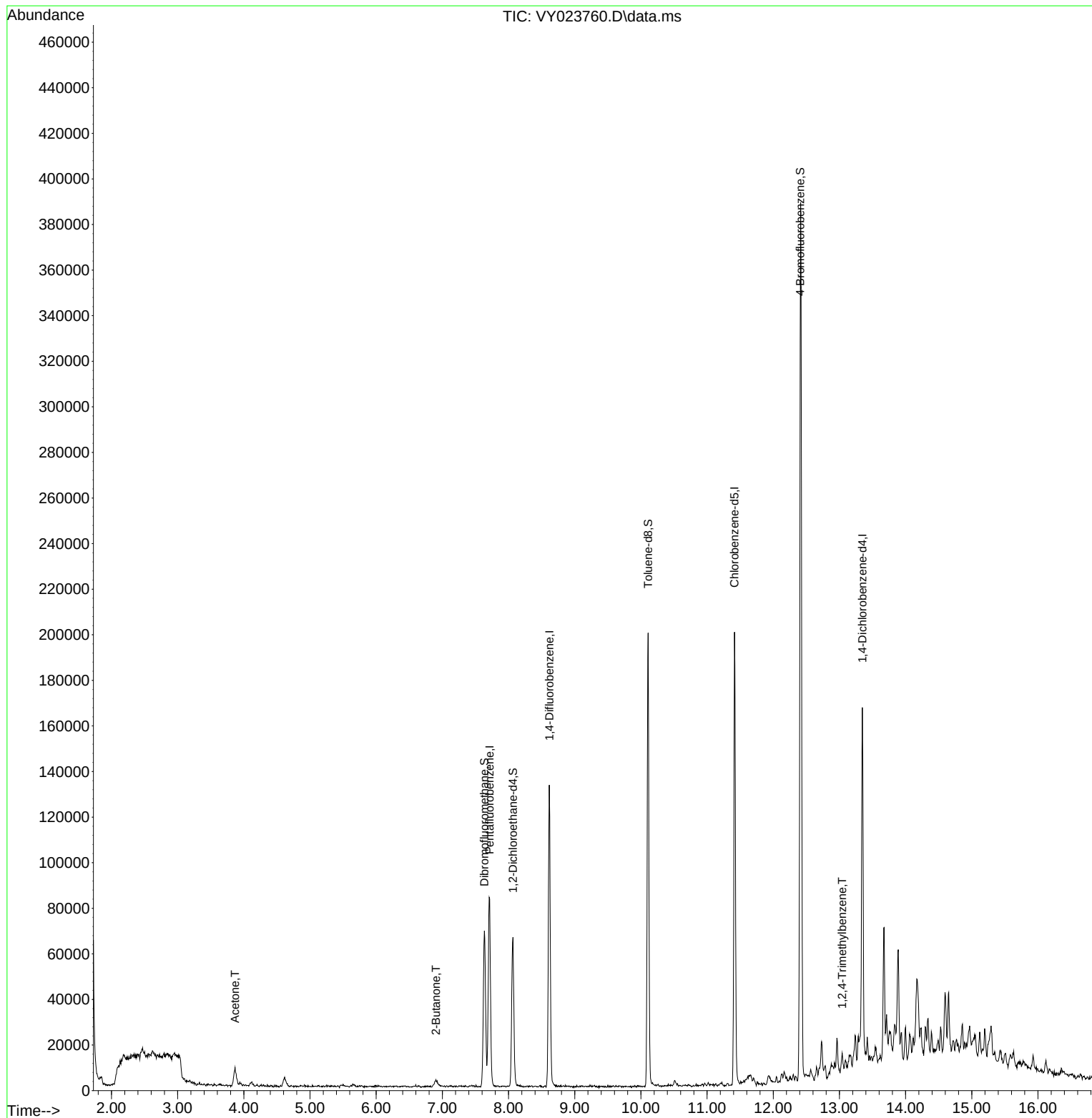
Internal Standards						
1) Pentafluorobenzene	7.713	168	69400	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	117751	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	115570	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	41947	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	52364	88.454	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 176.900%#	
35) Dibromofluoromethane	7.634	113	48847	66.380	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 132.760%	
50) Toluene-d8	10.109	98	134169	48.946	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 97.900%	
62) 4-Bromofluorobenzene	12.408	95	41670	47.007	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 94.020%	
Target Compounds						
					Qvalue	
16) Acetone	3.866	43	12535	85.185	ug/l	98
25) 2-Butanone	6.902	43	4155	24.422	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	4652	2.061	ug/l	94

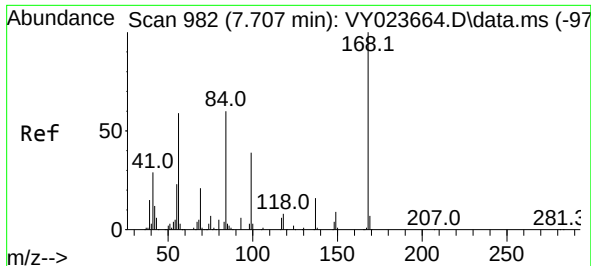
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
Data File : VY023760.D
Acq On : 12 Nov 2025 13:38
Operator : SY/MD
Sample : Q3586-02RE
Misc : 8.48g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-2RE

Quant Time: Nov 14 03:38:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:41:50 2025
Response via : Initial Calibration

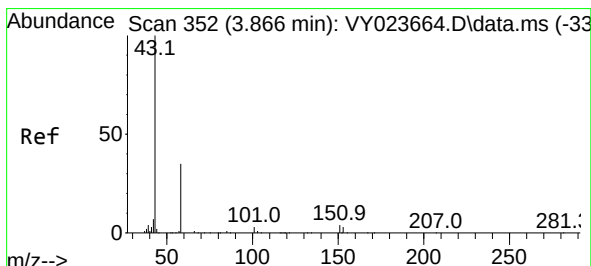
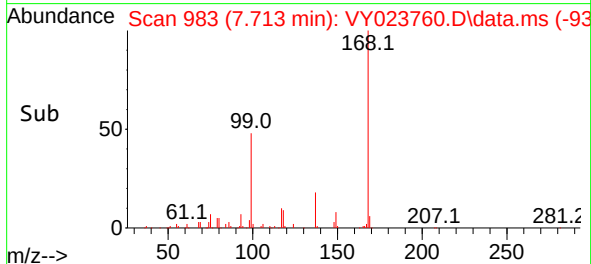
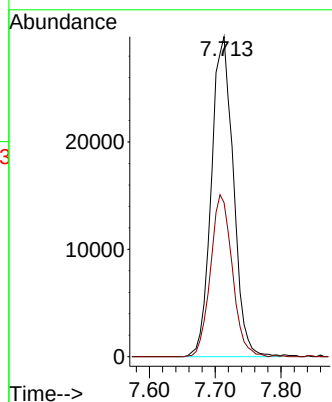
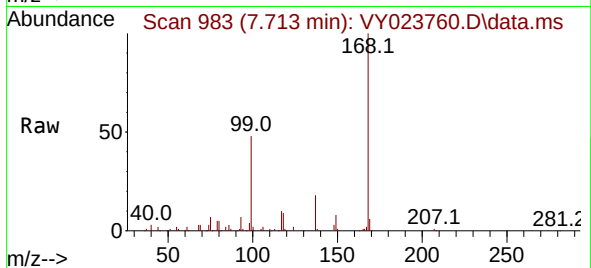




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY023760.D
Acq: 12 Nov 2025 13:38

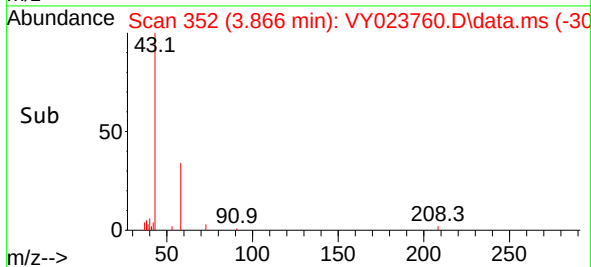
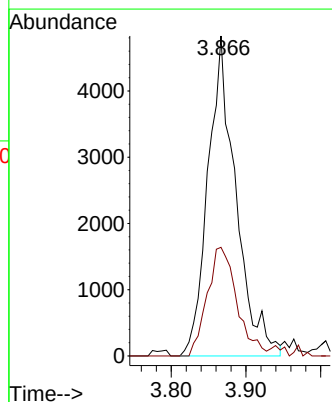
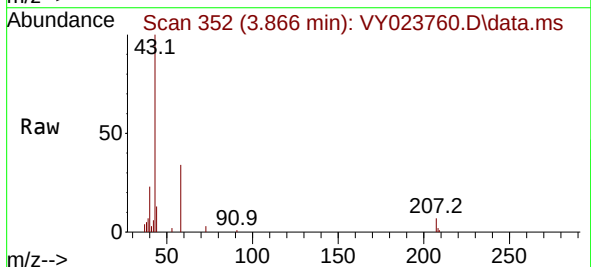
Instrument :
MSVOA_Y
ClientSampleId :
SED-2RE

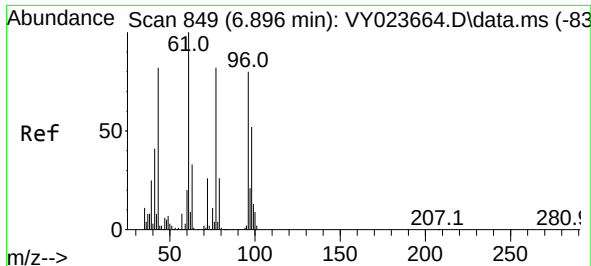
Tgt Ion:168 Resp: 69400
Ion Ratio Lower Upper
168 100
99 48.1 41.0 61.4



#16
Acetone
Concen: 85.185 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY023760.D
Acq: 12 Nov 2025 13:38

Tgt Ion: 43 Resp: 12535
Ion Ratio Lower Upper
43 100
58 34.0 28.2 42.4

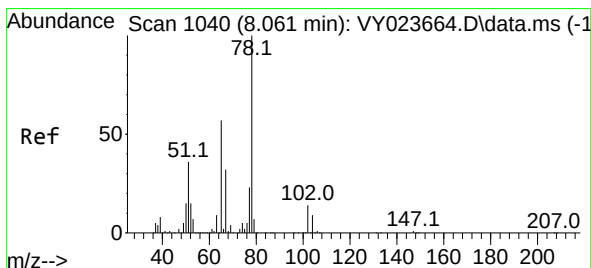
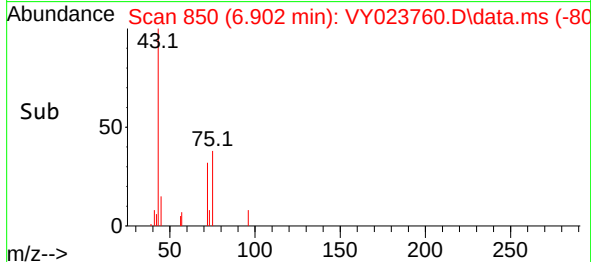
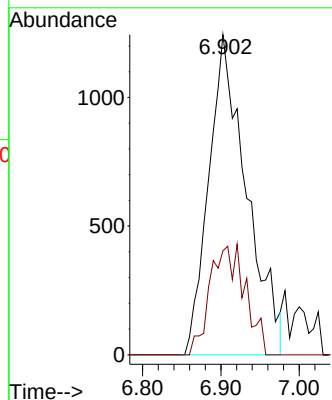
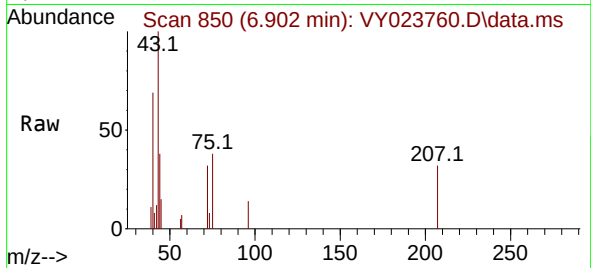




#25
2-Butanone
Concen: 24.422 ug/l
RT: 6.902 min Scan# 849
Delta R.T. 0.006 min
Lab File: VY023760.D
Acq: 12 Nov 2025 13:38

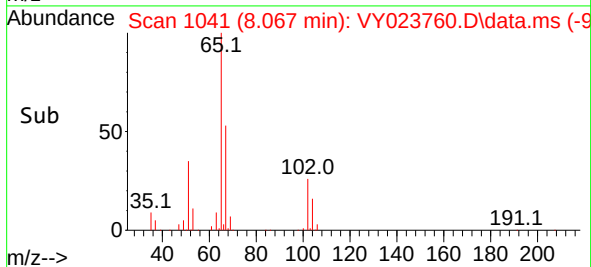
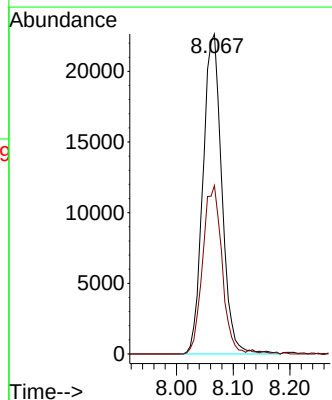
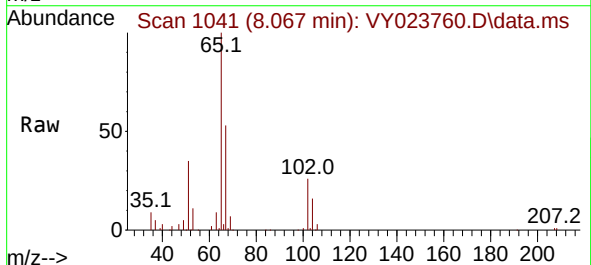
Instrument :
MSVOA_Y
ClientSampleId :
SED-2RE

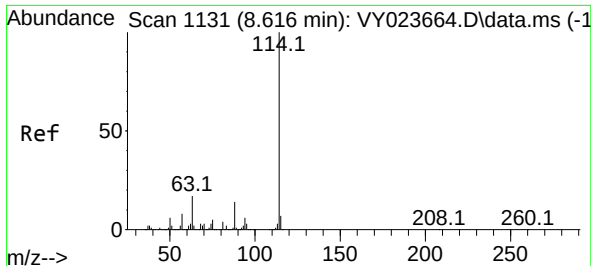
Tgt Ion: 43 Resp: 4155
Ion Ratio Lower Upper
43 100
72 32.5 25.7 38.5



#33
1,2-Dichloroethane-d4
Concen: 88.454 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023760.D
Acq: 12 Nov 2025 13:38

Tgt Ion: 65 Resp: 52364
Ion Ratio Lower Upper
65 100
67 53.5 0.0 107.4

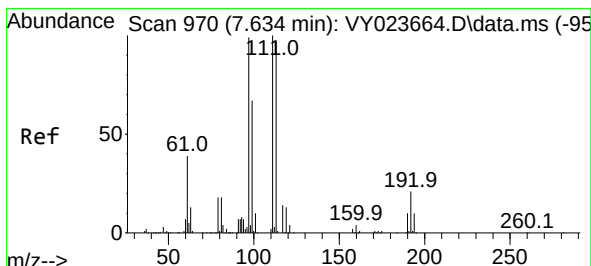
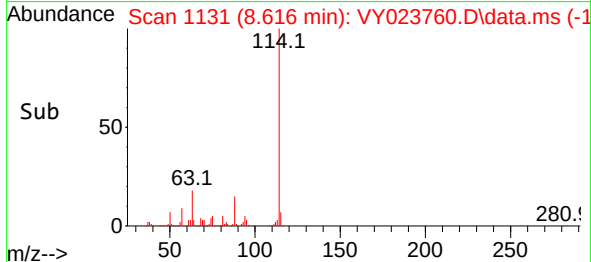
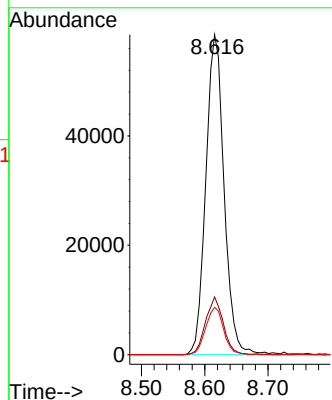
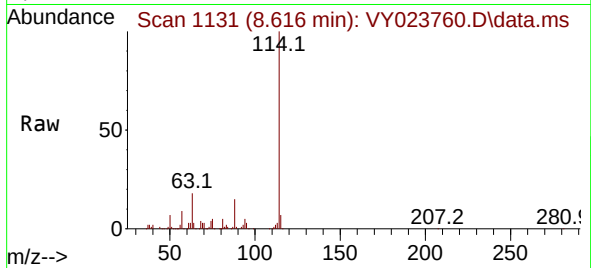




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023760.D
Acq: 12 Nov 2025 13:38

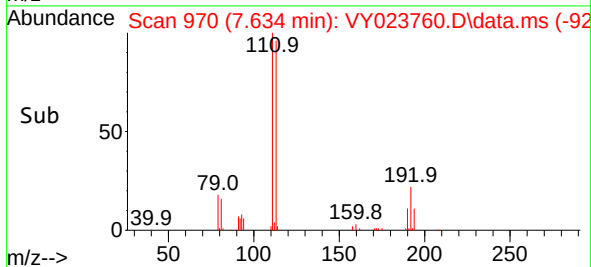
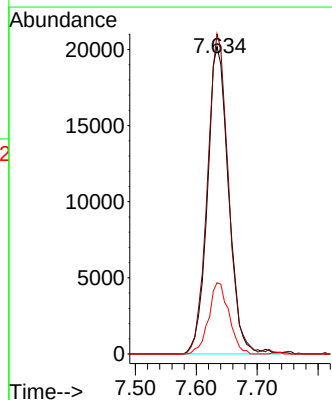
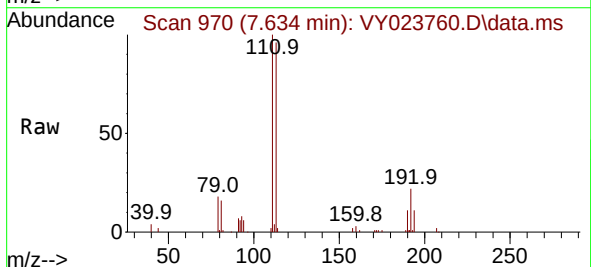
Instrument :
MSVOA_Y
ClientSampleId :
SED-2RE

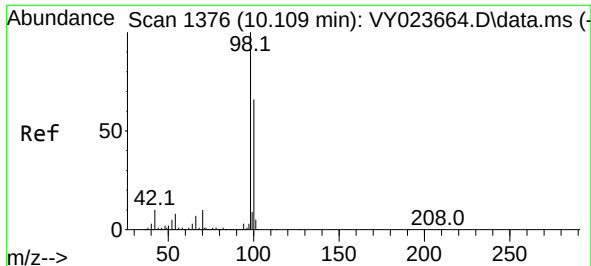
Tgt Ion:114 Resp: 117751
Ion Ratio Lower Upper
114 100
63 18.0 0.0 33.8
88 14.8 0.0 29.0



#35
Dibromofluoromethane
Concen: 66.380 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY023760.D
Acq: 12 Nov 2025 13:38

Tgt Ion:113 Resp: 48847
Ion Ratio Lower Upper
113 100
111 102.8 82.2 123.4
192 22.1 17.3 25.9

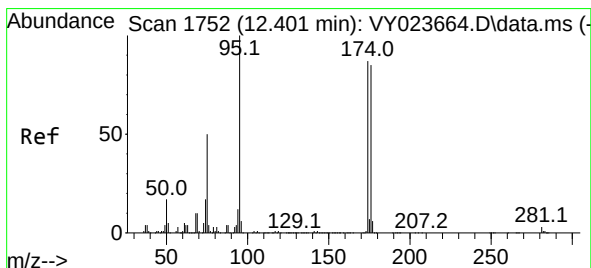
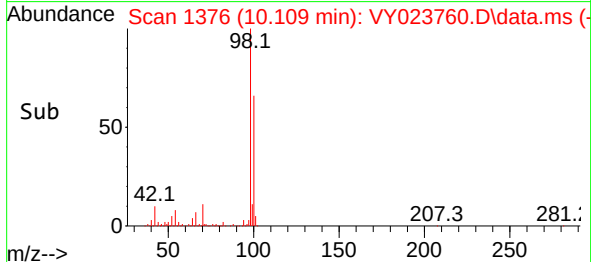
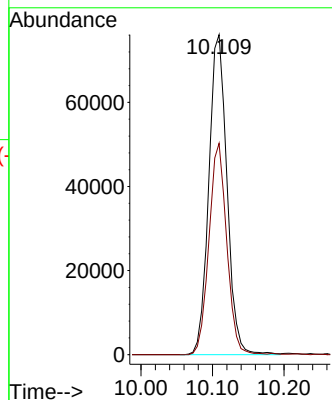
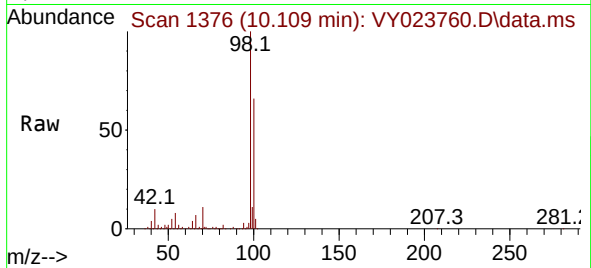




#50
Toluene-d8
Concen: 48.946 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY023760.D
Acq: 12 Nov 2025 13:38

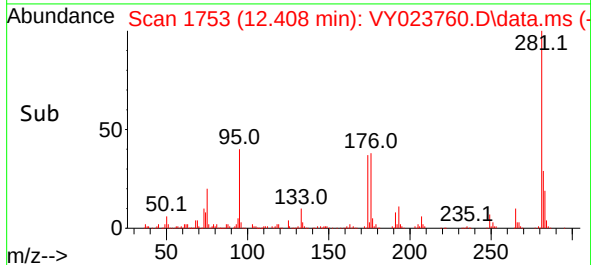
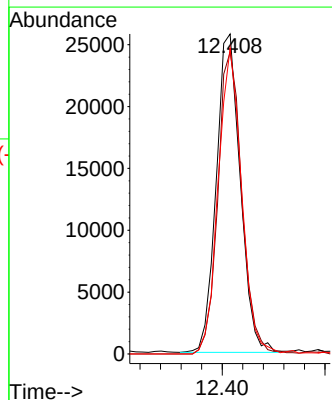
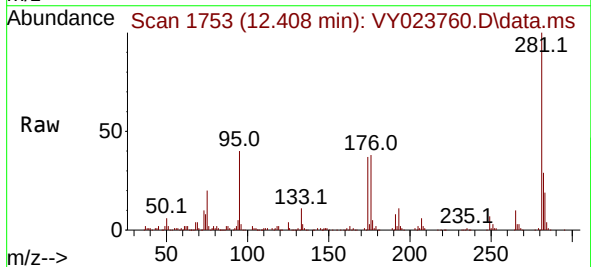
Instrument :
MSVOA_Y
ClientSampleId :
SED-2RE

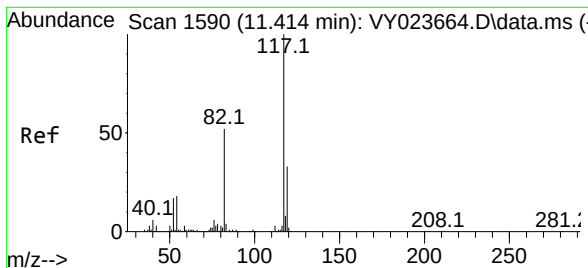
Tgt Ion: 98 Resp: 134169
Ion Ratio Lower Upper
98 100
100 64.7 52.7 79.1



#62
4-Bromofluorobenzene
Concen: 47.007 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023760.D
Acq: 12 Nov 2025 13:38

Tgt Ion: 95 Resp: 41670
Ion Ratio Lower Upper
95 100
174 94.7 0.0 184.8
176 93.7 0.0 181.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 115570

Delta R.T. 0.000 min

Lab File: VY023760.D

Acq: 12 Nov 2025 13:38

Instrument :

MSVOA_Y

ClientSampleId :

SED-2RE

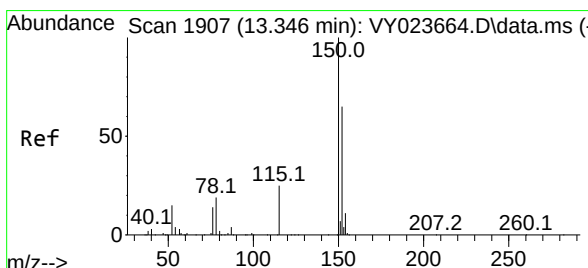
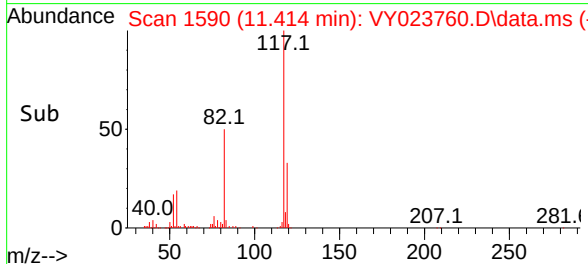
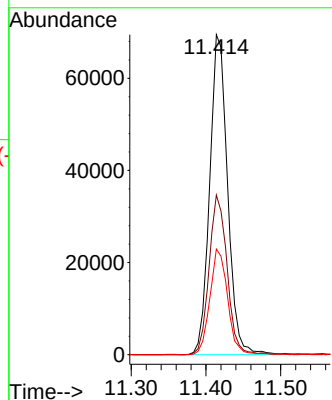
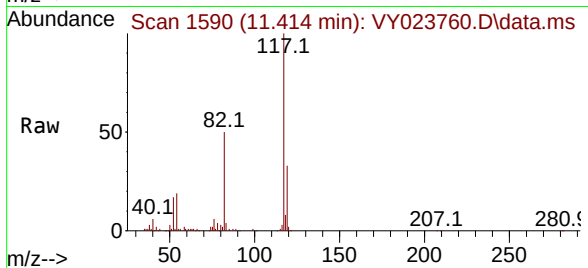
Tgt Ion:117 Resp: 115570

Ion Ratio Lower Upper

117 100

82 49.9 41.2 61.8

119 33.0 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023760.D

Acq: 12 Nov 2025 13:38

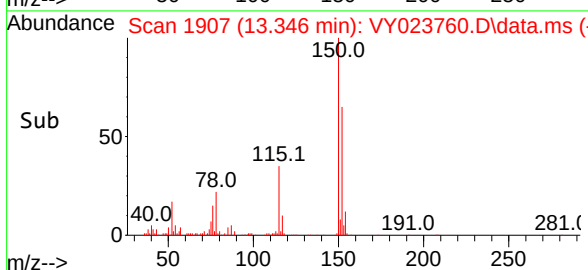
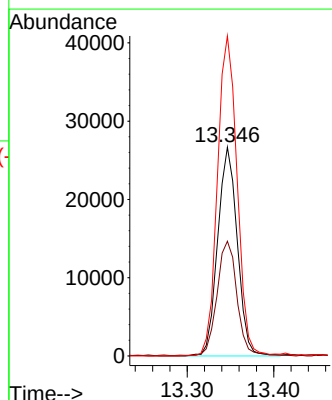
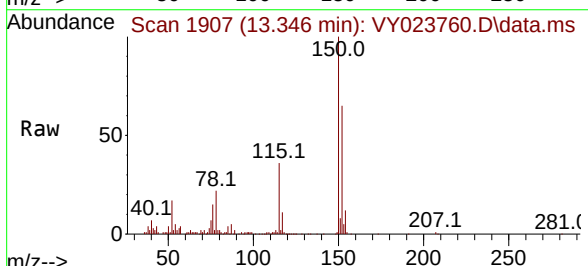
Tgt Ion:152 Resp: 41947

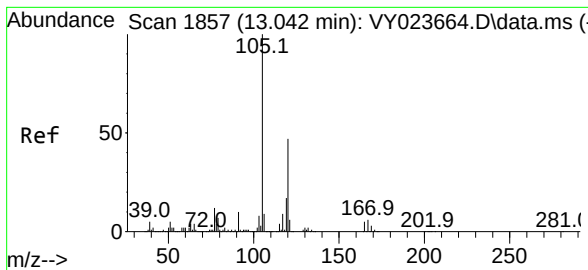
Ion Ratio Lower Upper

152 100

115 56.3 27.5 82.5

150 153.6 0.0 349.0

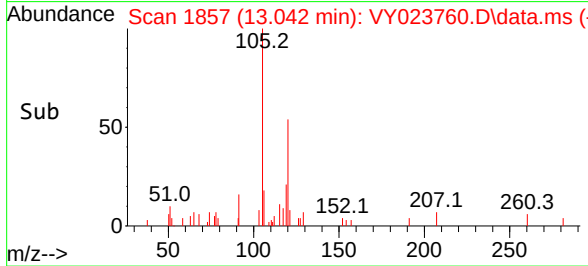
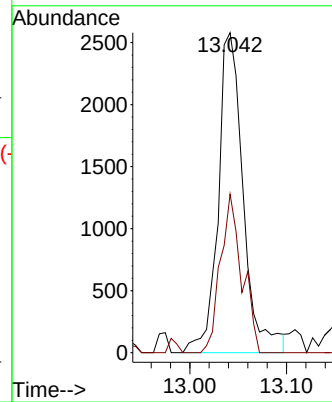
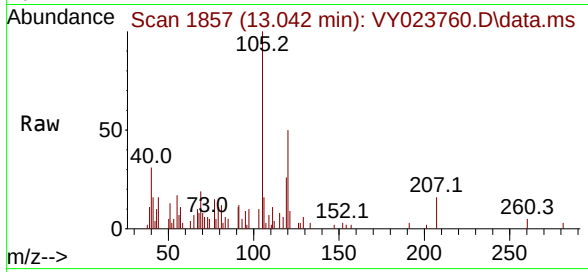




#84
 1,2,4-Trimethylbenzene
 Concen: 2.061 ug/l
 RT: 13.042 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VY023760.D
 Acq: 12 Nov 2025 13:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-2RE

Tgt Ion:105 Resp: 4652
 Ion Ratio Lower Upper
 105 100
 120 42.6 23.2 69.6



Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: SED-3
Lab Sample ID: Q3586-03
Analytical Method: 8260D
Sample Wt/Vol: 6.46 g

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/06/25
Date Received: 11/07/25
SDG No.: Q3586
Matrix: SOIL
% Solid: 50.9
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.70	U	1	1.70	7.60	ug/Kg	11/12/25 14:01	VY111225
74-87-3	Chloromethane	1.70	U	1	1.70	7.60	ug/Kg	11/12/25 14:01	VY111225
75-01-4	Vinyl Chloride	1.20	U	1	1.20	7.60	ug/Kg	11/12/25 14:01	VY111225
74-83-9	Bromomethane	1.60	U	1	1.60	7.60	ug/Kg	11/12/25 14:01	VY111225
75-00-3	Chloroethane	1.90	U	1	1.90	7.60	ug/Kg	11/12/25 14:01	VY111225
75-69-4	Trichlorofluoromethane	1.80	U	1	1.80	7.60	ug/Kg	11/12/25 14:01	VY111225
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60	U	1	1.60	7.60	ug/Kg	11/12/25 14:01	VY111225
75-35-4	1,1-Dichloroethene	1.50	U	1	1.50	7.60	ug/Kg	11/12/25 14:01	VY111225
67-64-1	Acetone	24.0	J	1	7.20	38.0	ug/Kg	11/12/25 14:01	VY111225
75-15-0	Carbon Disulfide	5.50	J	1	1.60	7.60	ug/Kg	11/12/25 14:01	VY111225
1634-04-4	Methyl tert-butyl Ether	1.10	U	1	1.10	7.60	ug/Kg	11/12/25 14:01	VY111225
79-20-9	Methyl Acetate	2.30	U	1	2.30	7.60	ug/Kg	11/12/25 14:01	VY111225
75-09-2	Methylene Chloride	5.40	U	1	5.40	15.2	ug/Kg	11/12/25 14:01	VY111225
156-60-5	trans-1,2-Dichloroethene	1.30	U	1	1.30	7.60	ug/Kg	11/12/25 14:01	VY111225
75-34-3	1,1-Dichloroethane	1.20	U	1	1.20	7.60	ug/Kg	11/12/25 14:01	VY111225
110-82-7	Cyclohexane	1.20	U	1	1.20	7.60	ug/Kg	11/12/25 14:01	VY111225
78-93-3	2-Butanone	9.90	U	1	9.90	38.0	ug/Kg	11/12/25 14:01	VY111225
56-23-5	Carbon Tetrachloride	1.50	U	1	1.50	7.60	ug/Kg	11/12/25 14:01	VY111225
156-59-2	cis-1,2-Dichloroethene	1.10	U	1	1.10	7.60	ug/Kg	11/12/25 14:01	VY111225
74-97-5	Bromochloromethane	1.70	U	1	1.70	7.60	ug/Kg	11/12/25 14:01	VY111225
67-66-3	Chloroform	1.30	U	1	1.30	7.60	ug/Kg	11/12/25 14:01	VY111225
71-55-6	1,1,1-Trichloroethane	1.40	U	1	1.40	7.60	ug/Kg	11/12/25 14:01	VY111225
108-87-2	Methylcyclohexane	1.40	U	1	1.40	7.60	ug/Kg	11/12/25 14:01	VY111225
71-43-2	Benzene	1.20	U	1	1.20	7.60	ug/Kg	11/12/25 14:01	VY111225
107-06-2	1,2-Dichloroethane	1.20	U	1	1.20	7.60	ug/Kg	11/12/25 14:01	VY111225
79-01-6	Trichloroethene	1.20	U	1	1.20	7.60	ug/Kg	11/12/25 14:01	VY111225
78-87-5	1,2-Dichloropropane	1.40	U	1	1.40	7.60	ug/Kg	11/12/25 14:01	VY111225
75-27-4	Bromodichloromethane	1.20	U	1	1.20	7.60	ug/Kg	11/12/25 14:01	VY111225
108-10-1	4-Methyl-2-Pentanone	5.40	U	1	5.40	38.0	ug/Kg	11/12/25 14:01	VY111225
108-88-3	Toluene	1.20	U	1	1.20	7.60	ug/Kg	11/12/25 14:01	VY111225
10061-02-6	t-1,3-Dichloropropene	0.99	U	1	0.99	7.60	ug/Kg	11/12/25 14:01	VY111225
10061-01-5	cis-1,3-Dichloropropene	0.94	U	1	0.94	7.60	ug/Kg	11/12/25 14:01	VY111225
79-00-5	1,1,2-Trichloroethane	1.40	U	1	1.40	7.60	ug/Kg	11/12/25 14:01	VY111225
591-78-6	2-Hexanone	5.60	U	1	5.60	38.0	ug/Kg	11/12/25 14:01	VY111225
124-48-1	Dibromochloromethane	1.30	U	1	1.30	7.60	ug/Kg	11/12/25 14:01	VY111225
106-93-4	1,2-Dibromoethane	1.30	U	1	1.30	7.60	ug/Kg	11/12/25 14:01	VY111225
127-18-4	Tetrachloroethene	1.60	U	1	1.60	7.60	ug/Kg	11/12/25 14:01	VY111225
108-90-7	Chlorobenzene	1.40	U	1	1.40	7.60	ug/Kg	11/12/25 14:01	VY111225
100-41-4	Ethyl Benzene	1.00	U	1	1.00	7.60	ug/Kg	11/12/25 14:01	VY111225
179601-23-1	m/p-Xylenes	1.90	U	1	1.90	15.2	ug/Kg	11/12/25 14:01	VY111225
95-47-6	o-Xylene	1.20	U	1	1.20	7.60	ug/Kg	11/12/25 14:01	VY111225
100-42-5	Styrene	1.10	U	1	1.10	7.60	ug/Kg	11/12/25 14:01	VY111225
75-25-2	Bromoform	1.30	U	1	1.30	7.60	ug/Kg	11/12/25 14:01	VY111225

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: SED-3
Lab Sample ID: Q3586-03
Analytical Method: 8260D
Sample Wt/Vol: 6.46 g

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/06/25
Date Received: 11/07/25
SDG No.: Q3586
Matrix: SOIL
% Solid: 50.9
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	1.20	U	1	1.20	7.60	ug/Kg	11/12/25 14:01	VY111225
79-34-5	1,1,2,2-Tetrachloroethane	1.80	U	1	1.80	7.60	ug/Kg	11/12/25 14:01	VY111225
541-73-1	1,3-Dichlorobenzene	2.60	U	1	2.60	7.60	ug/Kg	11/12/25 14:01	VY111225
106-46-7	1,4-Dichlorobenzene	2.40	U	1	2.40	7.60	ug/Kg	11/12/25 14:01	VY111225
95-50-1	1,2-Dichlorobenzene	2.20	U	1	2.20	7.60	ug/Kg	11/12/25 14:01	VY111225
96-12-8	1,2-Dibromo-3-Chloropropane	2.80	U	1	2.80	7.60	ug/Kg	11/12/25 14:01	VY111225
120-82-1	1,2,4-Trichlorobenzene	4.50	U	1	4.50	7.60	ug/Kg	11/12/25 14:01	VY111225
87-61-6	1,2,3-Trichlorobenzene	4.80	U	1	4.80	7.60	ug/Kg	11/12/25 14:01	VY111225
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	62.1			70 (63) - 130 (155)	124%	SPK: 50		
1868-53-7	Dibromofluoromethane	52.5			70 (70) - 130 (134)	105%	SPK: 50		
2037-26-5	Toluene-d8	48.6			70 (74) - 130 (123)	97%	SPK: 50		
460-00-4	4-Bromofluorobenzene	46.0			70 (52) - 130 (138)	92%	SPK: 50		
INTERNAL STANDARDS									
363-72-4	Pentafluorobenzene	716000							
540-36-3	1,4-Difluorobenzene	1240000							
3114-55-4	Chlorobenzene-d5	1080000							
3855-82-1	1,4-Dichlorobenzene-d4	466000							
TENTATIVE IDENTIFIED COMPOUNDS									
001120-21-4	Undecane	10.0	J			13.7	ug/Kg		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
 Data File : VY023761.D
 Acq On : 12 Nov 2025 14:01
 Operator : SY/MD
 Sample : Q3586-03
 Misc : 6.46g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-3

Quant Time: Nov 14 03:38:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

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

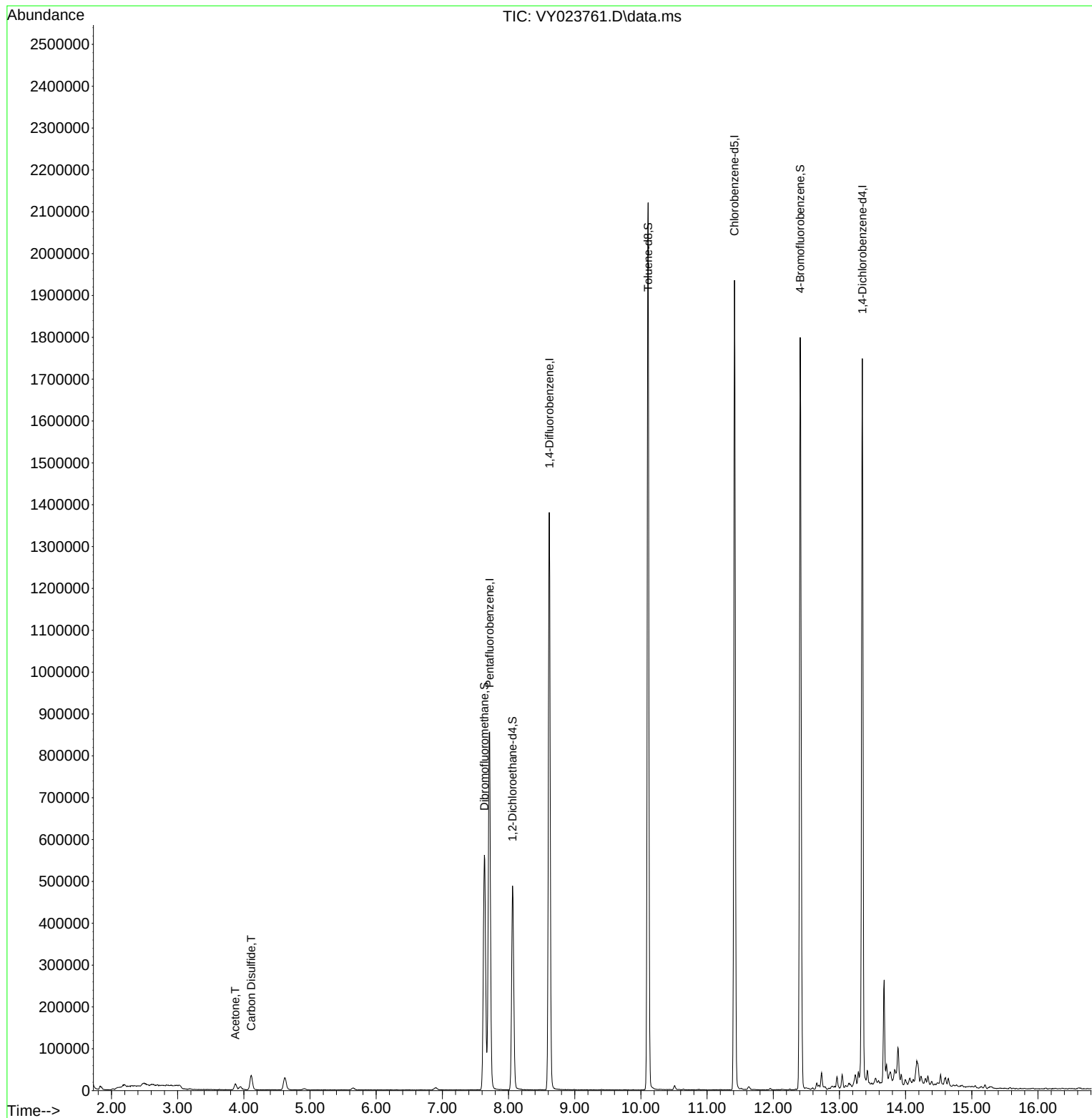
Internal Standards						
1) Pentafluorobenzene	7.713	168	715841	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1241972	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1078013	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	465632	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	379494	62.149	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	124.300%
35) Dibromofluoromethane	7.634	113	407574	52.512	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	105.020%
50) Toluene-d8	10.109	98	1406469	48.646	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.300%
62) 4-Bromofluorobenzene	12.408	95	430192	46.010	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	92.020%
Target Compounds						
						Qvalue
16) Acetone	3.873	43	23954	15.782	ug/l	93
17) Carbon Disulfide	4.110	76	71109	3.622	ug/l	98

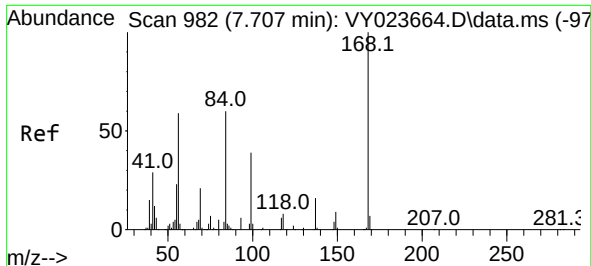
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
Data File : VY023761.D
Acq On : 12 Nov 2025 14:01
Operator : SY/MD
Sample : Q3586-03
Misc : 6.46g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-3

Quant Time: Nov 14 03:38:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:41:50 2025
Response via : Initial Calibration

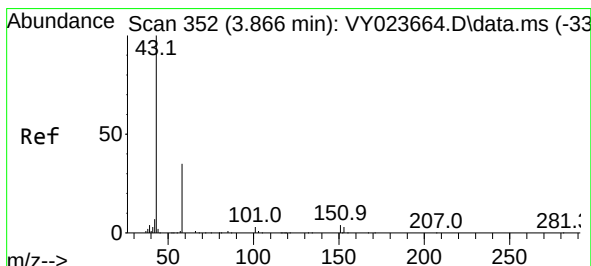
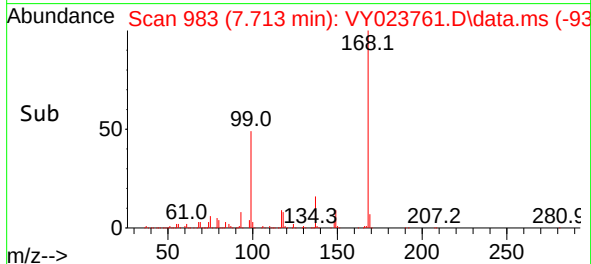
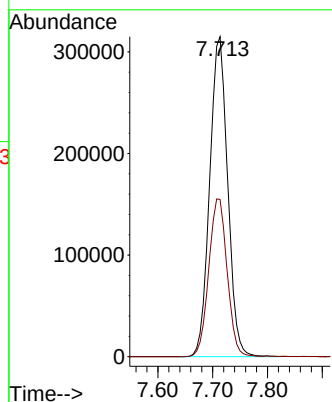
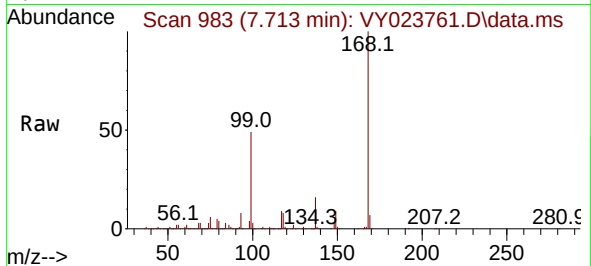




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023761.D
Acq: 12 Nov 2025 14:01

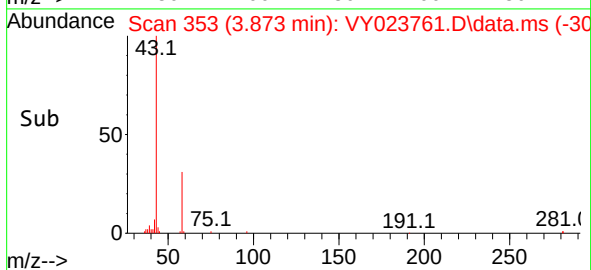
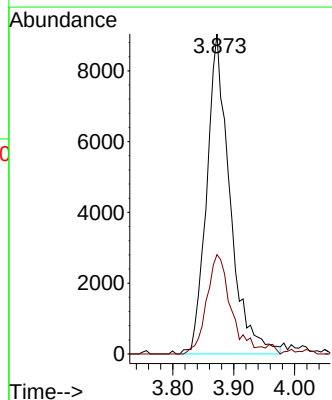
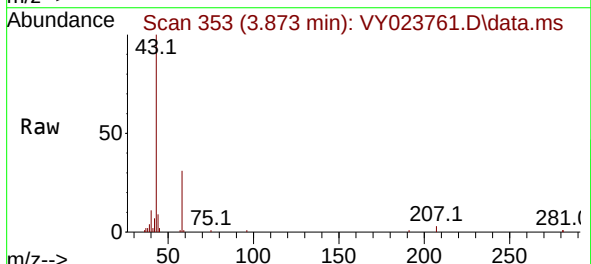
Instrument :
MSVOA_Y
ClientSampleId :
SED-3

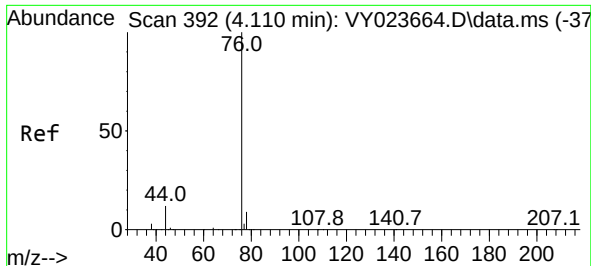
Tgt Ion:168 Resp: 715841
Ion Ratio Lower Upper
168 100
99 49.1 41.0 61.4



#16
Acetone
Concen: 15.782 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023761.D
Acq: 12 Nov 2025 14:01

Tgt Ion: 43 Resp: 23954
Ion Ratio Lower Upper
43 100
58 31.1 28.2 42.4

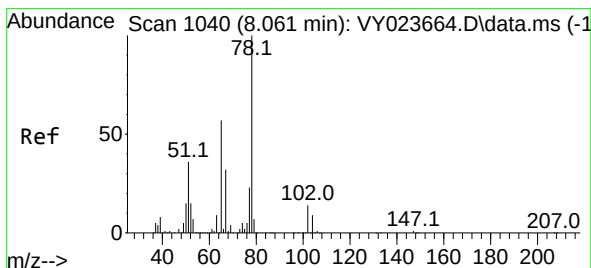
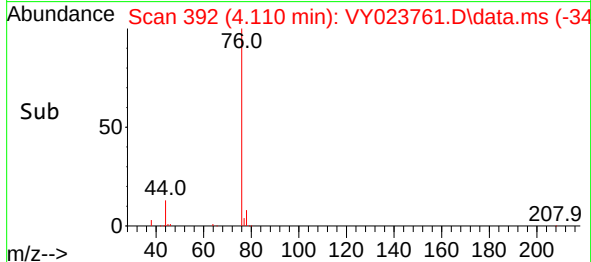
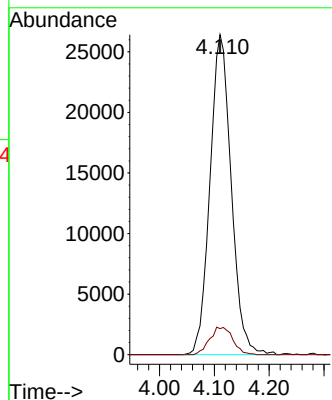
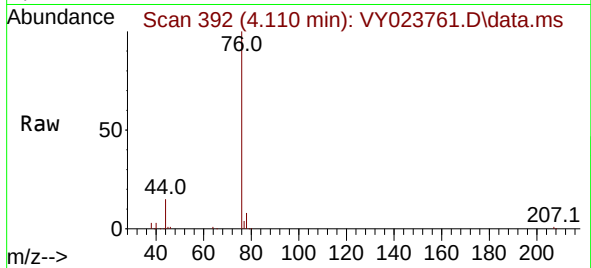




#17
Carbon Disulfide
Concen: 3.622 ug/l
RT: 4.110 min Scan# 392
Delta R.T. 0.000 min
Lab File: VY023761.D
Acq: 12 Nov 2025 14:01

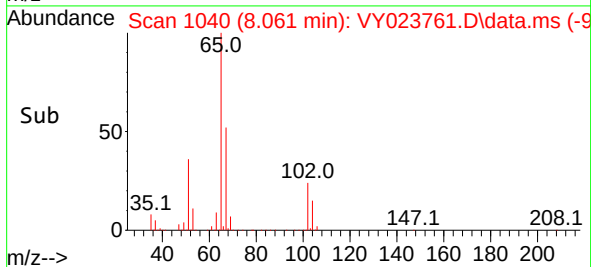
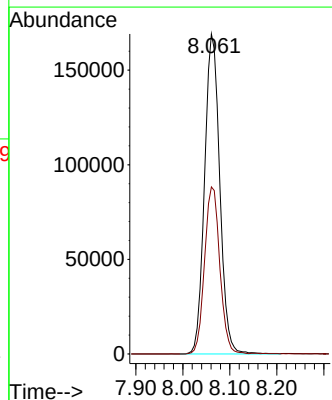
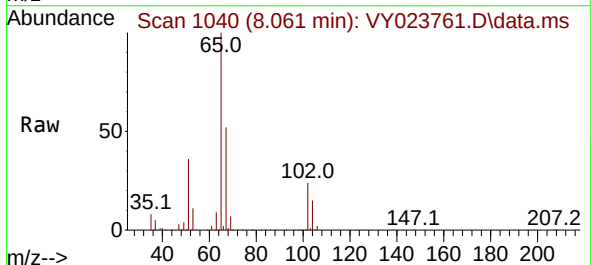
Instrument :
MSVOA_Y
ClientSampleId :
SED-3

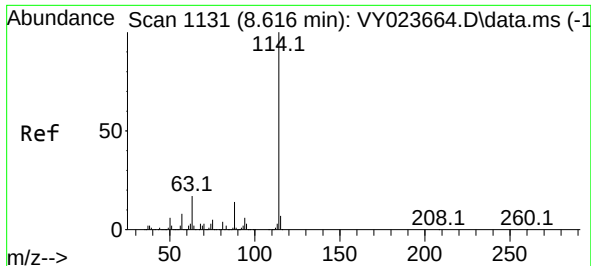
Tgt Ion: 76 Resp: 71109
Ion Ratio Lower Upper
76 100
78 8.2 7.1 10.7



#33
1,2-Dichloroethane-d4
Concen: 62.149 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY023761.D
Acq: 12 Nov 2025 14:01

Tgt Ion: 65 Resp: 379494
Ion Ratio Lower Upper
65 100
67 52.3 0.0 107.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023761.D

Acq: 12 Nov 2025 14:01

Instrument :

MSVOA_Y

ClientSampleId :

SED-3

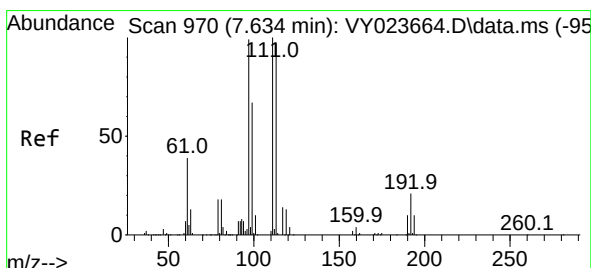
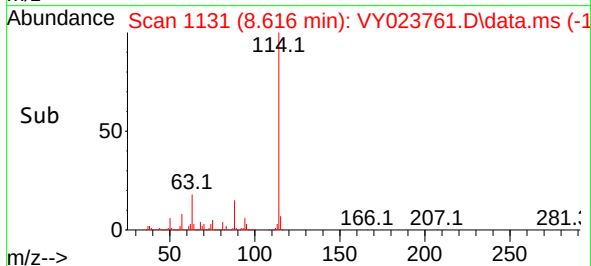
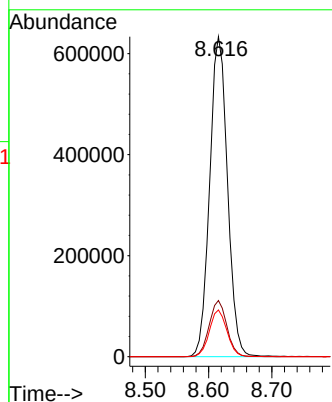
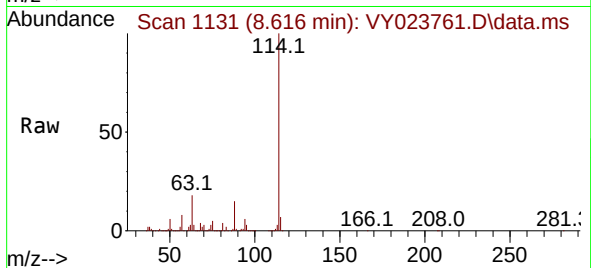
Tgt Ion:114 Resp: 1241972

Ion Ratio Lower Upper

114 100

63 17.5 0.0 33.8

88 14.6 0.0 29.0



#35

Dibromofluoromethane

Concen: 52.512 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY023761.D

Acq: 12 Nov 2025 14:01

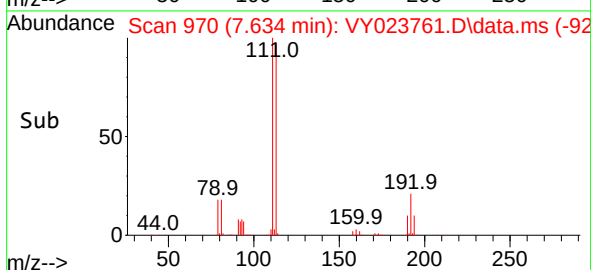
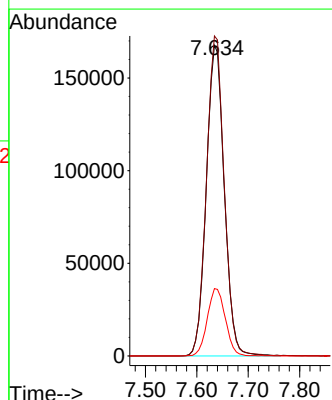
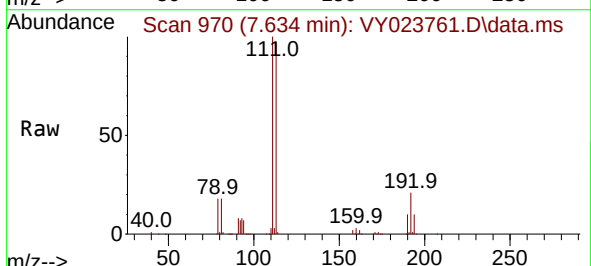
Tgt Ion:113 Resp: 407574

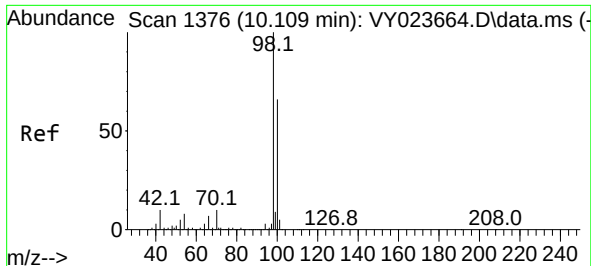
Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.4

192 21.8 17.3 25.9

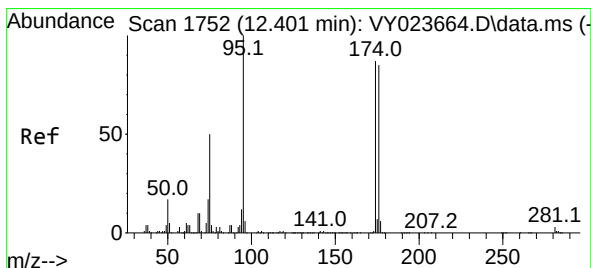
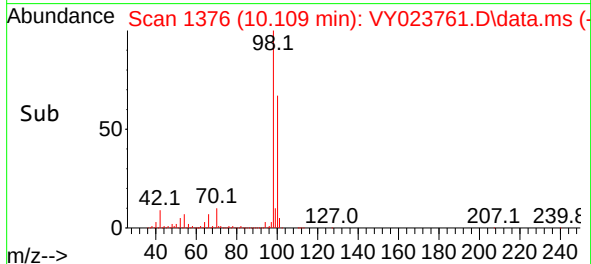
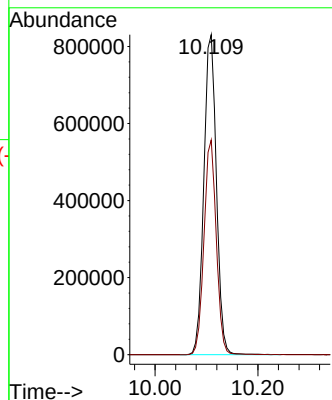
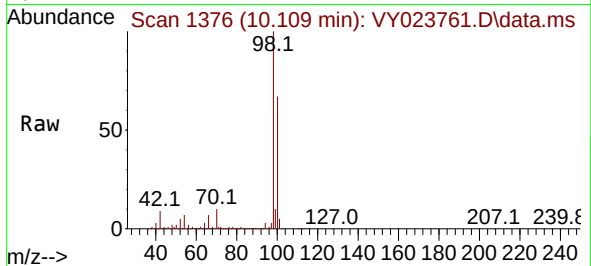




#50
Toluene-d8
Concen: 48.646 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY023761.D
Acq: 12 Nov 2025 14:01

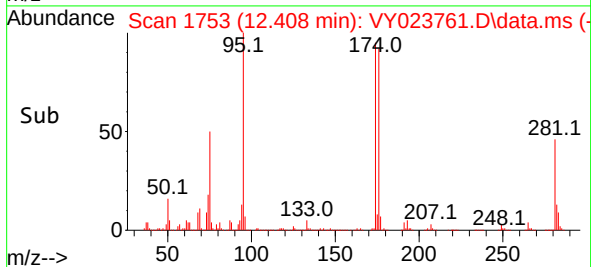
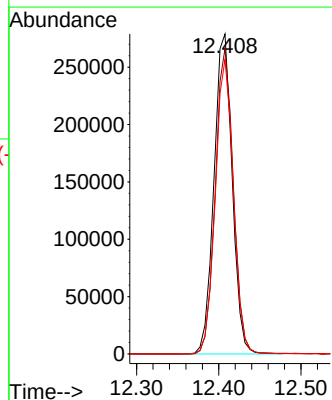
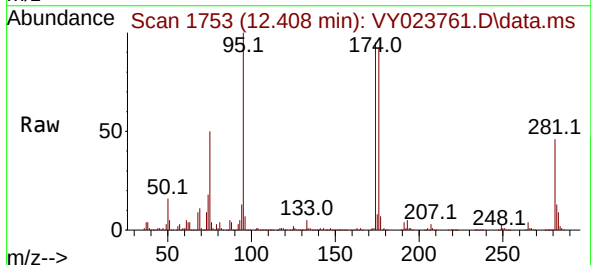
Instrument :
MSVOA_Y
ClientSampleId :
SED-3

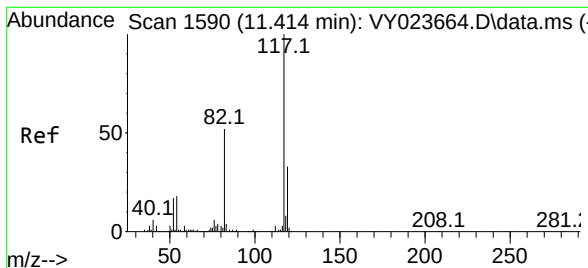
Tgt Ion: 98 Resp: 1406469
Ion Ratio Lower Upper
98 100
100 65.6 52.7 79.1



#62
4-Bromofluorobenzene
Concen: 46.010 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023761.D
Acq: 12 Nov 2025 14:01

Tgt Ion: 95 Resp: 430192
Ion Ratio Lower Upper
95 100
174 94.6 0.0 184.8
176 91.5 0.0 181.6

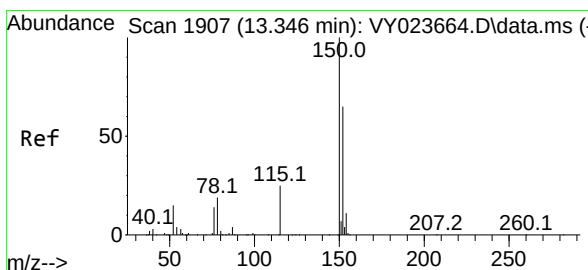
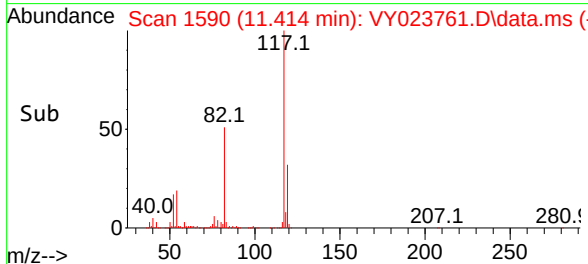
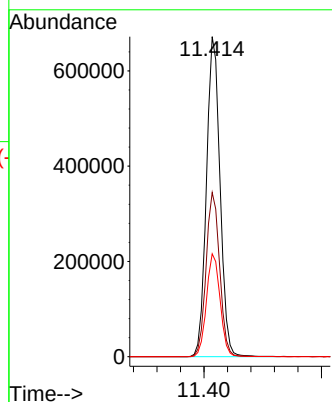
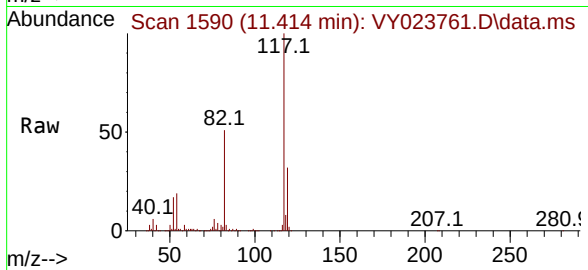




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY023761.D
Acq: 12 Nov 2025 14:01

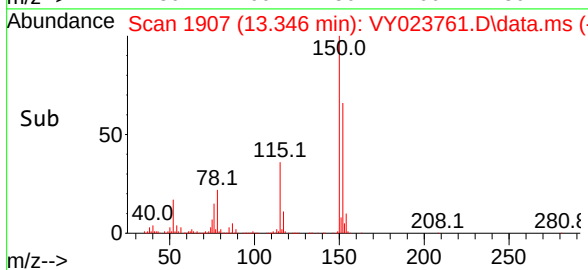
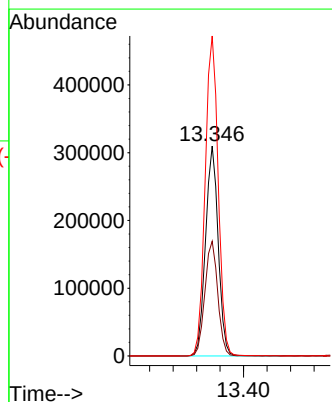
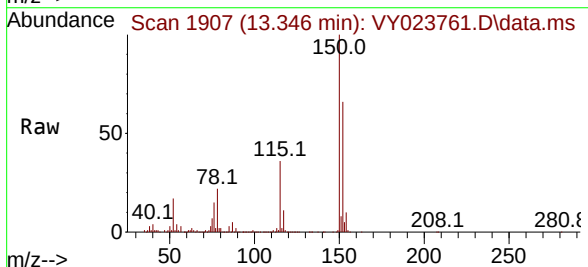
Instrument :
MSVOA_Y
ClientSampleId :
SED-3

Tgt Ion:117 Resp: 1078013
Ion Ratio Lower Upper
117 100
82 51.3 41.2 61.8
119 32.2 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY023761.D
Acq: 12 Nov 2025 14:01

Tgt Ion:152 Resp: 465632
Ion Ratio Lower Upper
152 100
115 55.6 27.5 82.5
150 156.3 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
 Data File : VY023761.D
 Acq On : 12 Nov 2025 14:01
 Operator : SY/MD
 Sample : Q3586-03
 Misc : 6.46g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-3

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M

Title : SW846 8260

Signal : TIC: VY023761.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.110	381	392	404	rBV2	34828	95827	2.66%	0.453%
2	4.616	464	475	490	rBV2	29087	91260	2.53%	0.432%
3	7.634	959	970	976	rBV	560873	1344189	37.28%	6.359%
4	7.713	976	983	1001	rVB	854074	1990198	55.20%	9.415%
5	8.061	1031	1040	1056	rBV	487298	1086787	30.14%	5.141%
6	8.616	1122	1131	1143	rBV	1380075	2704122	75.00%	12.792%
7	10.109	1366	1376	1393	rBV	2120006	3605483	100.00%	17.057%
8	11.414	1581	1590	1603	rBV	1934718	3113839	86.36%	14.731%
9	12.408	1743	1753	1764	rBV2	1797339	3227535	89.52%	15.269%
10	12.731	1802	1806	1811	rVB2	34537	51301	1.42%	0.243%
11	12.962	1840	1844	1850	rVB2	27341	42212	1.17%	0.200%
12	13.042	1851	1857	1862	rBV	31860	49677	1.38%	0.235%
13	13.237	1881	1889	1893	rBV5	28283	61873	1.72%	0.293%
14	13.285	1893	1897	1899	rVV2	31960	45360	1.26%	0.215%
15	13.346	1899	1907	1916	rVV	1733263	2727843	75.66%	12.905%
16	13.420	1916	1919	1923	rVB2	29068	41203	1.14%	0.195%
17	13.676	1955	1961	1965	rBV	245684	357345	9.91%	1.691%
18	13.712	1965	1967	1971	rVV2	43341	58861	1.63%	0.278%
19	13.767	1971	1976	1981	rVV7	25985	62604	1.74%	0.296%
20	13.834	1983	1987	1990	rVV4	31064	58689	1.63%	0.278%
21	13.883	1991	1995	2001	rVV3	83647	154371	4.28%	0.730%
22	14.169	2036	2042	2049	rBV8	49585	131666	3.65%	0.623%
23	14.602	2108	2113	2117	rVV6	18323	36146	1.00%	0.171%

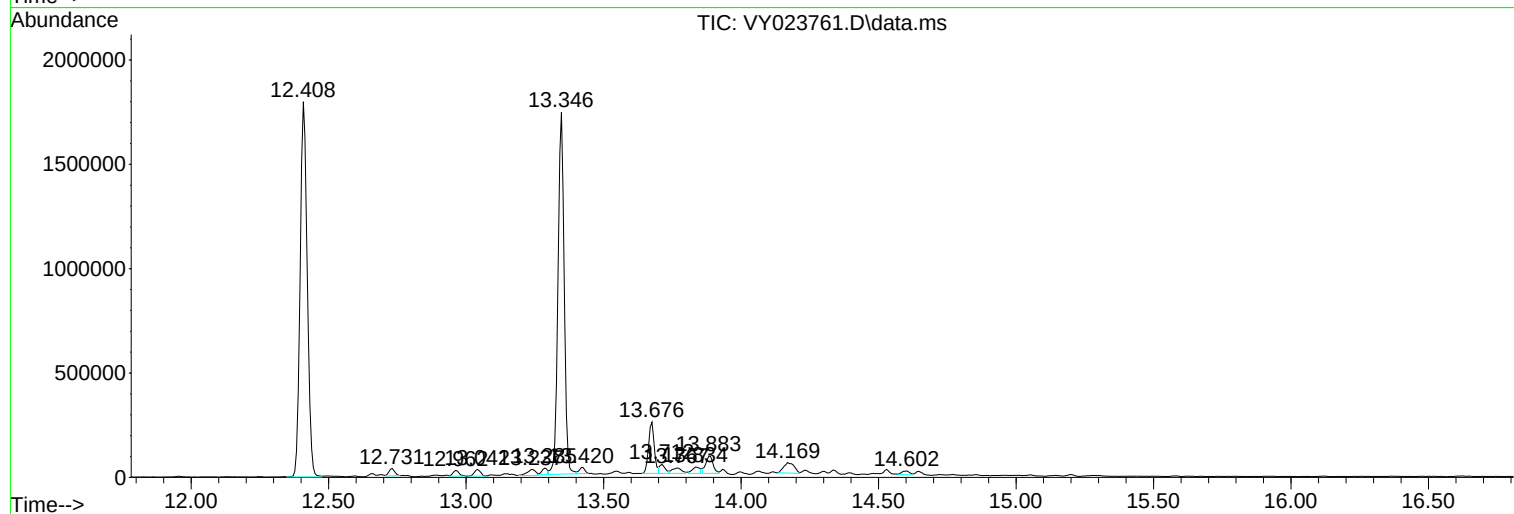
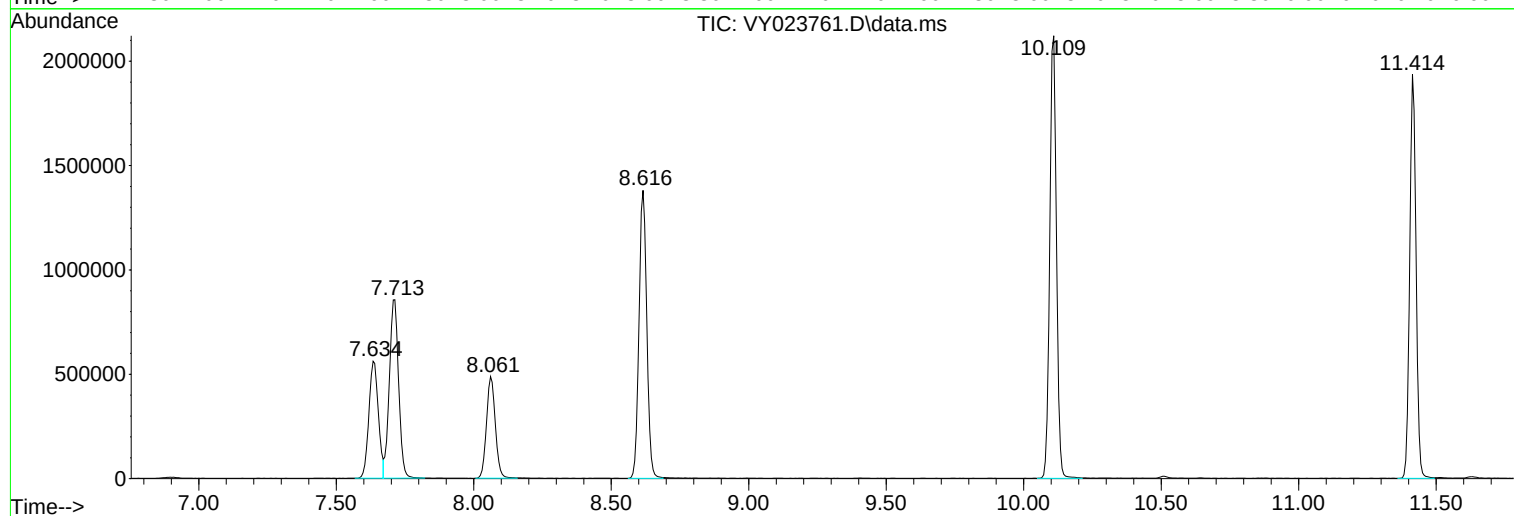
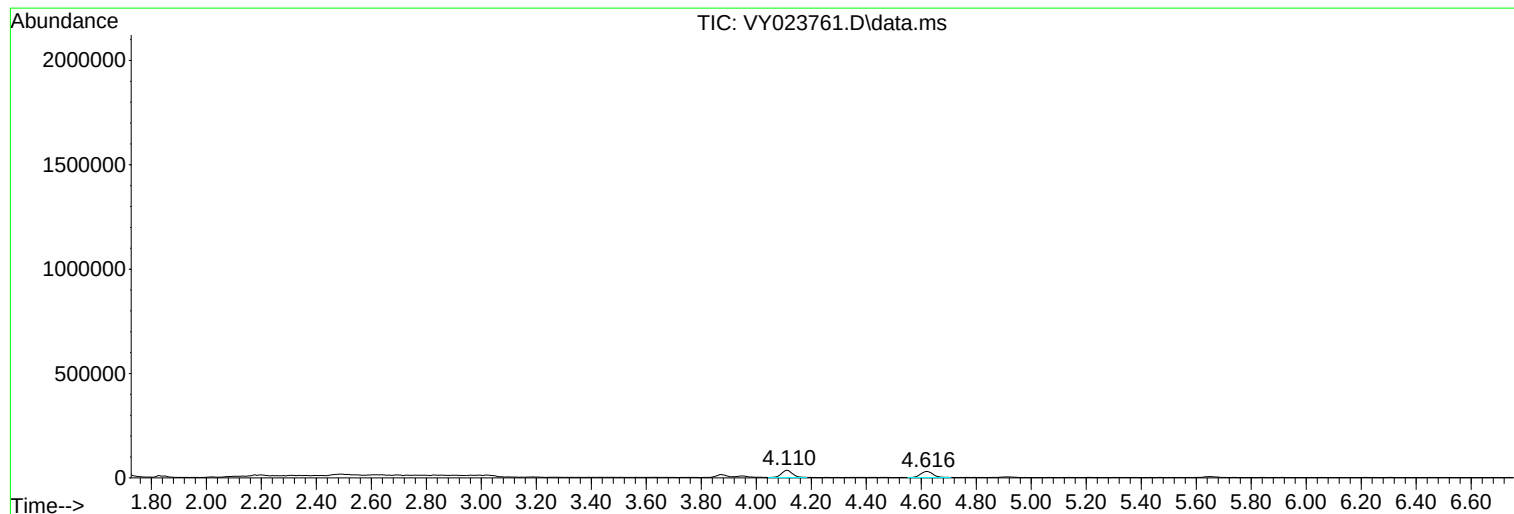
Sum of corrected areas: 21138391

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
Data File : VY023761.D
Acq On : 12 Nov 2025 14:01
Operator : SY/MD
Sample : Q3586-03
Misc : 6.46g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
Data File : VY023761.D
Acq On : 12 Nov 2025 14:01
Operator : SY/MD
Sample : Q3586-03
Misc : 6.46g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-3

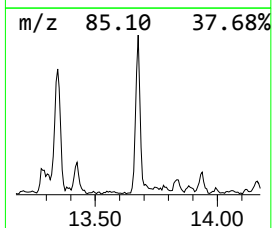
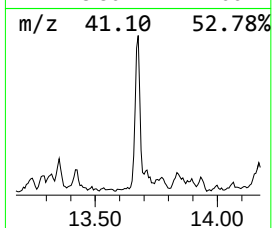
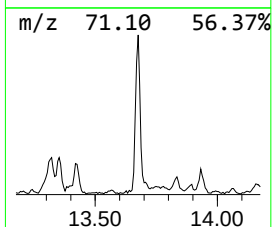
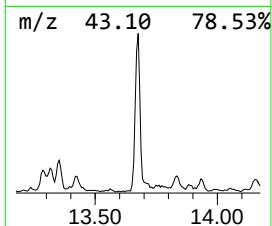
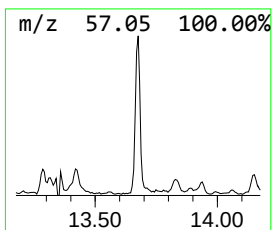
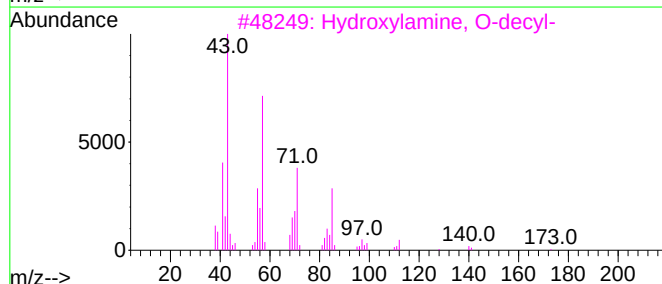
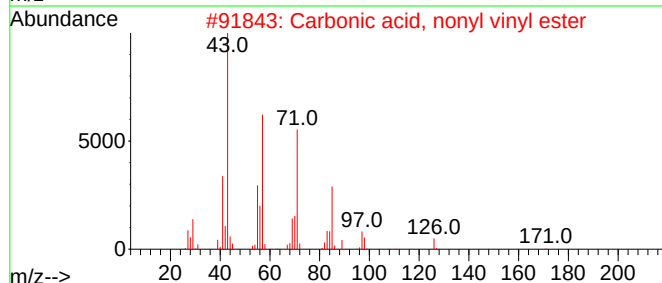
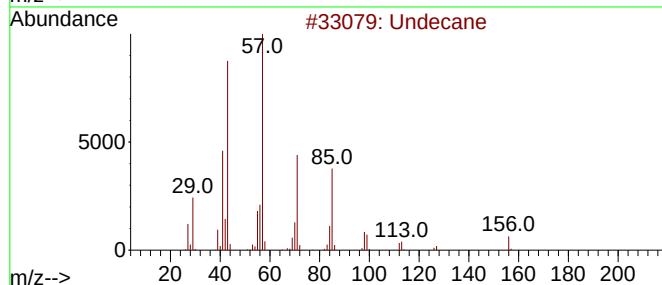
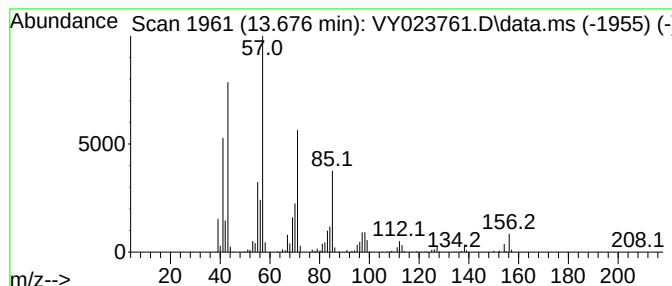
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260

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

Peak Number 1 Undecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.676	6.55 ug/l	357345	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Undecane	156	C11H24	001120-21-4	92
2			Carbonic acid, nonyl vinyl ester	214	C12H22O3	1000383-25-6	80
3			Hydroxylamine, O-decyl-	173	C10H23NO	029812-79-1	64
4			Carbonic acid, octyl prop-1-en-2...	214	C12H22O3	1000382-54-0	58
5			Carbonic acid, octyl vinyl ester	200	C11H20O3	1000383-25-5	52



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
Data File : VY023761.D
Acq On : 12 Nov 2025 14:01
Operator : SY/MD
Sample : Q3586-03
Misc : 6.46g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Undecane	13.676	6.5	ug/l	357345	4	13.346	2727840	50.0



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: REMI02

Lab Code: ACE

SDG No.: Q3586

Instrument ID: MSVOA_W

Calibration Date(s): 11/10/2025 11/10/2025

Heated Purge: (Y/N) Y

Calibration Time(s): 15:11 17:00

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

LAB FILE ID:	RRF005 = VW032406.D	RRF010 = VW032407.D	RRF020 = VW032408.D	RRF050 = VW032409.D	RRF100 = VW032410.D	RRF150 = VW032411.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.288	0.282	0.231	0.248	0.243	0.230	0.254	10
Chloromethane	0.476	0.439	0.408	0.408	0.438	0.440	0.435	5.8
Vinyl Chloride	0.591	0.567	0.525	0.538	0.543	0.528	0.549	4.6
Bromomethane	0.402	0.371	0.350	0.358	0.364	0.358	0.367	5.1
Chloroethane	0.382	0.361	0.340	0.355	0.362	0.354	0.359	3.9
Trichlorofluoromethane	0.420	0.416	0.392	0.459	0.442	0.452	0.430	5.9
1,1,2-Trichlorotrifluoroethane	0.506	0.495	0.438	0.467	0.458	0.449	0.469	5.6
1,1-Dichloroethene	0.576	0.541	0.506	0.540	0.539	0.523	0.537	4.3
Acetone	0.216	0.194	0.183	0.186	0.190	0.188	0.193	6.3
Carbon Disulfide	1.604	1.574	1.497	1.608	1.644	1.603	1.588	3.1
Methyl tert-butyl Ether	1.186	1.163	1.107	1.139	1.126	1.076	1.133	3.5
Methyl Acetate	0.486	0.494	0.459	0.463	0.476	0.487	0.478	2.9
Methylene Chloride	0.789	0.741	0.682	0.640	0.658	0.629	0.690	9.1
trans-1,2-Dichloroethene	0.646	0.619	0.596	0.603	0.624	0.598	0.615	3.1
1,1-Dichloroethane	1.217	1.156	1.091	1.148	1.168	1.138	1.153	3.5
Cyclohexane	1.236	1.141	1.016	1.027	1.003	0.976	1.066	9.5
2-Butanone	0.292	0.288	0.282	0.280	0.284	0.278	0.284	1.9
Carbon Tetrachloride	0.392	0.398	0.386	0.399	0.386	0.391	0.392	1.4
cis-1,2-Dichloroethene	0.764	0.727	0.713	0.729	0.748	0.723	0.734	2.5
Bromochloromethane	0.606	0.563	0.533	0.502	0.538	0.527	0.545	6.6
Chloroform	1.164	1.165	1.089	1.109	1.141	1.103	1.129	2.9
1,1,1-Trichloroethane	0.831	0.820	0.776	0.817	0.817	0.777	0.806	2.9
Methylcyclohexane	0.560	0.575	0.562	0.598	0.562	0.572	0.571	2.5
Benzene	1.410	1.473	1.410	1.437	1.413	1.380	1.420	2.2
1,2-Dichloroethane	0.425	0.423	0.416	0.421	0.409	0.409	0.417	1.7
Trichloroethene	0.336	0.340	0.327	0.335	0.323	0.323	0.331	2.2
1,2-Dichloropropane	0.356	0.360	0.354	0.356	0.350	0.346	0.354	1.4
Bromodichloromethane	0.460	0.469	0.456	0.482	0.481	0.482	0.471	2.5
4-Methyl-2-Pentanone	0.304	0.329	0.330	0.336	0.317	0.311	0.321	3.9
Toluene	0.875	0.896	0.870	0.894	0.870	0.859	0.877	1.7

* 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: REMI02

Lab Code: ACE

SDG No.: Q3586

Instrument ID: MSVOA_W

Calibration Date(s): 11/10/2025 11/10/2025

Heated Purge: (Y/N) Y

Calibration Time(s): 15:11 17:00

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

LAB FILE ID:		RRF005 = VW032406.D		RRF010 = VW032407.D		RRF020 = VW032408.D		
		RRF050 = VW032409.D		RRF100 = VW032410.D		RRF150 = VW032411.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.445	0.481	0.469	0.504	0.508	0.507	0.486	5.2
cis-1,3-Dichloropropene	0.531	0.553	0.556	0.579	0.576	0.574	0.562	3.2
1,1,2-Trichloroethane	0.288	0.283	0.282	0.293	0.278	0.277	0.284	2.1
2-Hexanone	0.223	0.245	0.241	0.244	0.231	0.226	0.235	4
Dibromochloromethane	0.306	0.317	0.314	0.320	0.320	0.322	0.317	1.9
1,2-Dibromoethane	0.261	0.292	0.279	0.281	0.272	0.272	0.276	3.8
Tetrachloroethene	0.298	0.304	0.285	0.300	0.303	0.287	0.296	2.8
Chlorobenzene	1.087	1.088	1.042	1.133	1.093	1.023	1.078	3.7
Ethyl Benzene	1.875	1.853	1.822	1.944	1.915	1.779	1.865	3.2
m/p-Xylenes	0.692	0.713	0.679	0.732	0.708	0.677	0.700	3
o-Xylene	0.668	0.659	0.662	0.682	0.699	0.653	0.670	2.5
Styrene	1.104	1.146	1.132	1.208	1.212	1.118	1.153	4
Bromoform	0.187	0.201	0.193	0.203	0.205	0.196	0.198	3.5
Isopropylbenzene	3.523	3.562	3.511	3.968	3.781	3.689	3.672	4.9
1,1,2,2-Tetrachloroethane	0.886	0.869	0.845	0.927	0.871	0.831	0.871	3.8
1,3-Dichlorobenzene	1.665	1.630	1.620	1.721	1.659	1.596	1.648	2.7
1,4-Dichlorobenzene	1.776	1.680	1.644	1.774	1.658	1.602	1.689	4.2
1,2-Dichlorobenzene	1.547	1.528	1.464	1.545	1.509	1.488	1.513	2.2
1,2-Dibromo-3-Chloropropane	0.145	0.146	0.145	0.159	0.152	0.154	0.150	3.8
1,2,4-Trichlorobenzene	0.943	0.917	0.923	1.032	0.972	0.992	0.963	4.6
1,2,3-Trichlorobenzene	0.892	0.831	0.836	0.901	0.880	0.906	0.874	3.8
1,2-Dichloroethane-d4	0.691	0.654	0.647	0.605	0.640	0.630	0.645	4.4
Dibromofluoromethane	0.314	0.302	0.305	0.287	0.297	0.291	0.299	3.3
Toluene-d8	1.171	1.176	1.152	1.130	1.136	1.125	1.148	1.9
4-Bromofluorobenzene	0.444	0.444	0.454	0.415	0.426	0.421	0.434	3.6

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
 Method File : 82W111025S.M
 Title : SW846 8260
 Last Update : Tue Nov 11 03:48:21 2025
 Response Via : Initial Calibration

Calibration Files

5 =VW032406.D 10 =VW032407.D 20 =VW032408.D 50 =VW032409.D 100 =VW032410.D 150 =VW032411.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.288	0.282	0.231	0.248	0.243	0.230	0.254	9.97
3) P	Chloromethane	0.476	0.439	0.408	0.408	0.438	0.440	0.435	5.84
4) C	Vinyl Chloride	0.591	0.567	0.525	0.538	0.543	0.528	0.549	4.64#
5) T	Bromomethane	0.402	0.371	0.350	0.358	0.364	0.358	0.367	5.06
6) T	Chloroethane	0.382	0.361	0.340	0.355	0.362	0.354	0.359	3.85
7) T	Trichlorofluor...	0.420	0.416	0.392	0.459	0.442	0.452	0.430	5.87
8) T	Diethyl Ether	0.376	0.359	0.337	0.340	0.351	0.348	0.352	4.00
9) T	1,1,2-Trichlor...	0.506	0.495	0.438	0.467	0.458	0.449	0.469	5.65
10) T	Methyl Iodide	0.771	0.762	0.725	0.744	0.781	0.747	0.755	2.68
11) T	Tert butyl alc...	0.055	0.063	0.057	0.054	0.054	0.052	0.056	6.52
12) CM	1,1-Dichloroet...	0.576	0.541	0.506	0.540	0.539	0.523	0.537	4.33#
13) T	Acrolein	0.095	0.095	0.096	0.090	0.094	0.092	0.094	2.32
14) T	Allyl chloride	1.051	1.034	0.979	1.041	1.065	1.031	1.034	2.84
15) T	Acrylonitrile	0.208	0.208	0.197	0.203	0.204	0.200	0.203	2.19
16) T	Acetone	0.216	0.194	0.183	0.186	0.190	0.188	0.193	6.27
17) T	Carbon Disulfide	1.604	1.574	1.497	1.608	1.644	1.603	1.588	3.14
18) T	Methyl Acetate	0.486	0.494	0.459	0.463	0.476	0.487	0.478	2.92
19) T	Methyl tert-bu...	1.186	1.163	1.107	1.139	1.126	1.076	1.133	3.47
20) T	Methylene Chlo...	0.789	0.741	0.682	0.640	0.658	0.629	0.690	9.09
21) T	trans-1,2-Dich...	0.646	0.619	0.596	0.603	0.624	0.598	0.615	3.07
22) T	Diisopropyl ether	2.154	2.132	2.078	2.085	2.134	2.043	2.104	2.01
23) T	Vinyl Acetate	1.416	1.434	1.406	1.460	1.493	1.440	1.442	2.19
24) P	1,1-Dichloroet...	1.217	1.156	1.091	1.148	1.168	1.138	1.153	3.55
25) T	2-Butanone	0.292	0.288	0.282	0.280	0.284	0.278	0.284	1.87
26) T	2,2-Dichloropr...	0.719	0.681	0.616	0.619	0.629	0.592	0.643	7.38
27) T	cis-1,2-Dichlo...	0.764	0.727	0.713	0.729	0.748	0.723	0.734	2.53
28) T	Bromochloromet...	0.606	0.563	0.533	0.502	0.538	0.527	0.545	6.59
29) T	Tetrahydrofuran	0.184	0.182	0.178	0.181	0.182	0.175	0.180	1.71
30) C	Chloroform	1.164	1.165	1.089	1.109	1.141	1.103	1.129	2.89#
31) T	Cyclohexane	1.236	1.141	1.016	1.027	1.003	0.976	1.066	9.46
32) T	1,1,1-Trichlor...	0.831	0.820	0.776	0.817	0.817	0.777	0.806	2.94
33) S	1,2-Dichloroet...	0.691	0.654	0.647	0.605	0.640	0.630	0.645	4.39
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.314	0.302	0.305	0.287	0.297	0.291	0.299	3.29
36) T	1,1-Dichloropr...	0.435	0.447	0.436	0.455	0.436	0.437	0.441	1.89
37) T	Ethyl Acetate	0.315	0.347	0.333	0.337	0.320	0.317	0.328	3.95
38) T	Carbon Tetrach...	0.392	0.398	0.386	0.399	0.386	0.391	0.392	1.41
39) T	Methylcyclohexane	0.560	0.575	0.562	0.598	0.562	0.572	0.571	2.55
40) TM	Benzene	1.410	1.473	1.410	1.437	1.413	1.380	1.420	2.22
41) T	Methacrylonitrile	0.161	0.174	0.193	0.187	0.182	0.184	0.180	6.34
42) TM	1,2-Dichloroet...	0.425	0.423	0.416	0.421	0.409	0.409	0.417	1.70
43) T	Isopropyl Acetate	0.556	0.583	0.575	0.604	0.581	0.586	0.581	2.68
44) TM	Trichloroethene	0.336	0.340	0.327	0.335	0.323	0.323	0.331	2.20
45) C	1,2-Dichloropr...	0.356	0.360	0.354	0.356	0.350	0.346	0.354	1.37#
46) T	Dibromomethane	0.207	0.210	0.210	0.211	0.202	0.200	0.207	2.36
47) T	Bromodichlorom...	0.460	0.469	0.456	0.482	0.481	0.482	0.471	2.46
48) T	Methyl methacr...	0.261	0.261	0.261	0.303	0.275	0.295	0.276	6.80
49) T	1,4-Dioxane	0.003	0.003	0.003	0.003	0.003	0.003	0.003	3.45
50) S	Toluene-d8	1.171	1.176	1.152	1.130	1.136	1.125	1.148	1.87
51) T	4-Methyl-2-Pen...	0.304	0.329	0.330	0.336	0.317	0.311	0.321	3.90
52) CM	Toluene	0.875	0.896	0.870	0.894	0.870	0.859	0.877	1.69#
53) T	t-1,3-Dichloro...	0.445	0.481	0.469	0.504	0.508	0.507	0.486	5.23
54) T	cis-1,3-Dichlo...	0.531	0.553	0.556	0.579	0.576	0.574	0.562	3.24
55) T	1,1,2-Trichlor...	0.288	0.283	0.282	0.293	0.278	0.277	0.284	2.14
56) T	Ethyl methacry...	0.389	0.428	0.436	0.458	0.449	0.450	0.435	5.71

Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
 Method File : 82W111025S.M

57)	T	1,3-Dichloropr...	0.495	0.517	0.512	0.523	0.497	0.495	0.506	2.43
58)	T	2-Chloroethyl ...	0.218	0.236	0.237	0.226	0.238	0.235	0.232	3.45
59)	T	2-Hexanone	0.223	0.245	0.241	0.244	0.231	0.226	0.235	4.02
60)	T	Dibromochlorom...	0.306	0.317	0.314	0.320	0.320	0.322	0.317	1.86
61)	T	1,2-Dibromoethane	0.261	0.292	0.279	0.281	0.272	0.272	0.276	3.84
62)	S	4-Bromofluorob...	0.444	0.444	0.454	0.415	0.426	0.421	0.434	3.56
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.298	0.304	0.285	0.300	0.303	0.287	0.296	2.79
65)	PM	Chlorobenzene	1.087	1.088	1.042	1.133	1.093	1.023	1.078	3.68
66)	T	1,1,1,2-Tetrac...	0.338	0.328	0.324	0.339	0.346	0.327	0.334	2.52
67)	C	Ethyl Benzene	1.875	1.853	1.822	1.943	1.915	1.779	1.865	3.23#
68)	T	m/p-Xylenes	0.692	0.713	0.679	0.732	0.708	0.677	0.700	3.02
69)	T	o-Xylene	0.668	0.659	0.662	0.682	0.699	0.653	0.670	2.54
70)	T	Styrene	1.104	1.146	1.132	1.208	1.212	1.118	1.153	4.01
71)	P	Bromoform	0.187	0.201	0.193	0.203	0.205	0.196	0.198	3.53
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.523	3.562	3.511	3.968	3.781	3.689	3.672	4.87
74)	T	N-amyl acetate	1.175	1.202	1.245	1.403	1.334	1.298	1.276	6.70
75)	P	1,1,2,2-Tetrac...	0.886	0.869	0.845	0.927	0.871	0.831	0.871	3.84
76)	T	1,2,3-Trichlor...	0.735	0.749	0.730	0.671	0.621	0.606	0.686	9.02
77)	T	Bromobenzene	0.877	0.865	0.811	0.942	0.863	0.860	0.869	4.86
78)	T	n-propylbenzene	4.287	4.362	4.312	4.819	4.565	4.488	4.472	4.48
79)	T	2-Chlorotoluene	2.669	2.699	2.630	2.874	2.789	2.719	2.730	3.23
80)	T	1,3,5-Trimethy...	2.919	2.983	2.969	3.242	3.086	2.978	3.030	3.87
81)	T	trans-1,4-Dich...	0.263	0.281	0.277	0.328	0.323	0.325	0.299	9.73
82)	T	4-Chlorotoluene	2.804	2.776	2.752	3.008	2.858	2.837	2.839	3.22
83)	T	tert-Butylbenzene	2.567	2.531	2.515	2.880	2.687	2.632	2.635	5.17
84)	T	1,2,4-Trimethy...	3.047	3.050	2.963	3.291	3.071	3.067	3.081	3.56
85)	T	sec-Butylbenzene	3.938	3.846	3.784	4.197	3.902	3.883	3.925	3.65
86)	T	p-Isopropyltol...	3.148	3.210	3.114	3.434	3.289	3.249	3.241	3.53
87)	T	1,3-Dichlorobe...	1.665	1.630	1.620	1.721	1.659	1.596	1.648	2.66
88)	T	1,4-Dichlorobe...	1.776	1.680	1.644	1.774	1.658	1.602	1.689	4.24
89)	T	n-Butylbenzene	3.059	3.073	3.087	3.388	3.184	3.206	3.166	3.94
90)	T	Hexachloroethane	0.563	0.564	0.540	0.624	0.598	0.617	0.584	5.77
91)	T	1,2-Dichlorobe...	1.547	1.528	1.464	1.545	1.509	1.488	1.513	2.19
92)	T	1,2-Dibromo-3-...	0.145	0.146	0.145	0.159	0.152	0.154	0.150	3.85
93)	T	1,2,4-Trichlor...	0.943	0.917	0.923	1.032	0.972	0.992	0.963	4.62
94)	T	Hexachlorobuta...	0.408	0.386	0.366	0.422	0.404	0.414	0.400	5.17
95)	T	Naphthalene	2.182	2.294	2.276	2.598	2.586	2.472	2.401	7.29
96)	T	1,2,3-Trichlor...	0.892	0.831	0.836	0.901	0.880	0.906	0.874	3.76

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032406.D
 Acq On : 10 Nov 2025 15:11
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:33:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	446044	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	861919	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	746442	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	357631	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	30808	5.357	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	10.720%#		
35) Dibromofluoromethane	7.904	113	27089	5.249	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	10.500%#		
50) Toluene-d8	10.325	98	100946	5.099	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	10.200%#		
62) 4-Bromofluorobenzene	12.617	95	38253	5.115	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	10.220%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	12853m	5.626	ug/l	
3) Chloromethane	2.253	50	21252	5.479	ug/l	96
4) Vinyl Chloride	2.405	62	26343	5.381	ug/l	97
5) Bromomethane	2.826	94	17936	5.477	ug/l	86
6) Chloroethane	2.978	64	17036	5.319	ug/l	99
7) Trichlorofluoromethane	3.308	101	18735	4.881	ug/l	94
8) Diethyl Ether	3.716	74	16754	5.339	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.100	101	22551	5.394	ug/l	98
10) Methyl Iodide	4.307	142	34394	5.107	ug/l	99
11) Tert butyl alcohol	5.216	59	12284	24.704	ug/l #	94
12) 1,1-Dichloroethene	4.076	96	25678	5.356	ug/l	98
13) Acrolein	3.929	56	21243	25.462	ug/l	97
14) Allyl chloride	4.710	41	46866	5.083	ug/l	98
15) Acrylonitrile	5.405	53	46350	25.546	ug/l	99
16) Acetone	4.161	43	48252	28.046	ug/l	93
17) Carbon Disulfide	4.417	76	71547	5.049	ug/l	98
18) Methyl Acetate	4.716	43	21679	5.089	ug/l	99
19) Methyl tert-butyl Ether	5.466	73	52903	5.235	ug/l	96
20) Methylene Chloride	4.954	84	35179	5.718	ug/l	96
21) trans-1,2-Dichloroethene	5.460	96	28795	5.253	ug/l	96
22) Diisopropyl ether	6.338	45	96076	5.118	ug/l	94
23) Vinyl Acetate	6.289	43	315880	24.561	ug/l	99
24) 1,1-Dichloroethane	6.246	63	54281	5.278	ug/l	99
25) 2-Butanone	7.197	43	65204	25.725	ug/l	95
26) 2,2-Dichloropropane	7.191	77	32052	5.592	ug/l	96
27) cis-1,2-Dichloroethene	7.191	96	34097	5.205	ug/l	96
28) Bromochloromethane	7.532	49	27041	5.563	ug/l	98
29) Tetrahydrofuran	7.557	42	41010	25.492	ug/l	98
30) Chloroform	7.691	83	51922	5.157	ug/l	98
31) Cyclohexane	7.965	56	55149	5.797	ug/l #	75
32) 1,1,1-Trichloroethane	7.886	97	37069	5.154	ug/l	97
36) 1,1-Dichloropropene	8.093	75	37460	4.927	ug/l	96
37) Ethyl Acetate	7.276	43	27118	4.796	ug/l	96
38) Carbon Tetrachloride	8.087	117	33800	5.003	ug/l	95
39) Methylcyclohexane	9.343	83	48247	4.898	ug/l	97
40) Benzene	8.337	78	121492	4.962	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032406.D
 Acq On : 10 Nov 2025 15:11
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:33:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.496	41	13857	4.462	ug/l	93
42) 1,2-Dichloroethane	8.410	62	36648	5.095	ug/l	100
43) Isopropyl Acetate	8.435	43	47925	4.787	ug/l	98
44) Trichloroethene	9.099	130	28965	5.084	ug/l	92
45) 1,2-Dichloropropane	9.374	63	30643	5.026	ug/l	97
46) Dibromomethane	9.465	93	17884	5.020	ug/l	98
47) Bromodichloromethane	9.648	83	39690	4.884	ug/l	96
48) Methyl methacrylate	9.441	41	22511	4.732	ug/l	98
49) 1,4-Dioxane	9.465	88	4928	98.734	ug/l #	98
51) 4-Methyl-2-Pentanone	10.209	43	130944	23.659	ug/l	99
52) Toluene	10.392	92	75426	4.987	ug/l	97
53) t-1,3-Dichloropropene	10.605	75	38349	4.582	ug/l	97
54) cis-1,3-Dichloropropene	10.081	75	45809	4.733	ug/l	97
55) 1,1,2-Trichloroethane	10.788	97	24841	5.082	ug/l	95
56) Ethyl methacrylate	10.648	69	33566	4.476	ug/l	97
57) 1,3-Dichloropropane	10.934	76	42638	4.884	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	93963	23.527	ug/l	97
59) 2-Hexanone	10.971	43	96031	23.716	ug/l	99
60) Dibromochloromethane	11.129	129	26381	4.833	ug/l	99
61) 1,2-Dibromoethane	11.233	107	22493	4.725	ug/l	97
64) Tetrachloroethene	10.867	164	22220	5.027	ug/l	93
65) Chlorobenzene	11.660	112	81174	5.045	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.727	131	25207	5.063	ug/l	99
67) Ethyl Benzene	11.727	91	139985	5.029	ug/l	98
68) m/p-Xylenes	11.837	106	103326	9.886	ug/l	99
69) o-Xylene	12.166	106	49846	4.981	ug/l	99
70) Styrene	12.178	104	82403	4.787	ug/l	98
71) Bromoform	12.343	173	13933	4.724	ug/l #	99
73) Isopropylbenzene	12.458	105	125978	4.796	ug/l	100
74) N-amyl acetate	12.269	43	42020	4.604	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.714	83	31677	5.082	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	26298m	5.362	ug/l	
77) Bromobenzene	12.745	156	31353	5.042	ug/l	99
78) n-propylbenzene	12.800	91	153312	4.793	ug/l	99
79) 2-Chlorotoluene	12.891	91	95466	4.889	ug/l	98
80) 1,3,5-Trimethylbenzene	12.940	105	104405	4.818	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.513	75	9398	4.390	ug/l	88
82) 4-Chlorotoluene	12.983	91	100291	4.938	ug/l	97
83) tert-Butylbenzene	13.202	119	91812	4.871	ug/l	99
84) 1,2,4-Trimethylbenzene	13.245	105	108985	4.945	ug/l	100
85) sec-Butylbenzene	13.379	105	140828	5.016	ug/l	97
86) p-Isopropyltoluene	13.495	119	112594	4.858	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	59538	5.050	ug/l	99
88) 1,4-Dichlorobenzene	13.574	146	63512	5.258	ug/l	96
89) n-Butylbenzene	13.818	91	109389	4.831	ug/l	98
90) Hexachloroethane	14.092	117	20141	4.819	ug/l	100
91) 1,2-Dichlorobenzene	13.867	146	55317	5.111	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.482	75	5174	4.818	ug/l	98
93) 1,2,4-Trichlorobenzene	15.129	180	33710	4.894	ug/l	95
94) Hexachlorobutadiene	15.220	225	14601	5.103	ug/l	91
95) Naphthalene	15.360	128	78029	4.543	ug/l	100
96) 1,2,3-Trichlorobenzene	15.543	180	31907	5.102	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032406.D
Acq On : 10 Nov 2025 15:11
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032407.D
 Acq On : 10 Nov 2025 15:33
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:34:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	450836	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	819351	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	741941	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	349708	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	59003	10.151	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	20.300%#		
35) Dibromofluoromethane	7.904	113	49546	10.100	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	20.200%#		
50) Toluene-d8	10.325	98	192718	10.240	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	20.480%#		
62) 4-Bromofluorobenzene	12.617	95	72758	10.234	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	20.460%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.046	85	25392m	10.997	ug/l	
3) Chloromethane	2.253	50	39572	10.093	ug/l	99
4) Vinyl Chloride	2.405	62	51167	10.341	ug/l	95
5) Bromomethane	2.826	94	33455	10.108	ug/l	92
6) Chloroethane	2.972	64	32585	10.065	ug/l	98
7) Trichlorofluoromethane	3.308	101	37511	9.669	ug/l	98
8) Diethyl Ether	3.722	74	32396	10.214	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.106	101	44628	10.560	ug/l	99
10) Methyl Iodide	4.313	142	68681	10.090	ug/l	100
11) Tert butyl alcohol	5.216	59	28210	56.129	ug/l	100
12) 1,1-Dichloroethene	4.076	96	48802	10.071	ug/l	99
13) Acrolein	3.935	56	42661	50.591	ug/l	99
14) Allyl chloride	4.710	41	93239	10.005	ug/l	99
15) Acrylonitrile	5.405	53	93953	51.232	ug/l	99
16) Acetone	4.161	43	87310	50.210	ug/l	97
17) Carbon Disulfide	4.417	76	141915	9.909	ug/l	97
18) Methyl Acetate	4.710	43	44520	10.339	ug/l	99
19) Methyl tert-butyl Ether	5.460	73	104889	10.268	ug/l	95
20) Methylene Chloride	4.954	84	66798	10.741	ug/l	100
21) trans-1,2-Dichloroethene	5.466	96	55842	10.078	ug/l	97
22) Diisopropyl ether	6.337	45	192206	10.130	ug/l	96
23) Vinyl Acetate	6.283	43	646655	49.745	ug/l	97
24) 1,1-Dichloroethane	6.246	63	104196	10.023	ug/l	98
25) 2-Butanone	7.197	43	129968	50.732	ug/l	98
26) 2,2-Dichloropropane	7.191	77	61367	10.593	ug/l	96
27) cis-1,2-Dichloroethene	7.191	96	65574	9.904	ug/l	95
28) Bromochloromethane	7.532	49	50794	10.338	ug/l	99
29) Tetrahydrofuran	7.551	42	81885	50.359	ug/l	99
30) Chloroform	7.697	83	105045	10.322	ug/l	98
31) Cyclohexane	7.965	56	102879	10.699	ug/l #	92
32) 1,1,1-Trichloroethane	7.892	97	73948	10.172	ug/l	98
36) 1,1-Dichloropropene	8.099	75	73275	10.138	ug/l	97
37) Ethyl Acetate	7.276	43	56863	10.580	ug/l	98
38) Carbon Tetrachloride	8.081	117	65150	10.144	ug/l	92
39) Methylcyclohexane	9.343	83	94305	10.071	ug/l	86
40) Benzene	8.337	78	241413	10.371	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032407.D
 Acq On : 10 Nov 2025 15:33
 Operator : SY/MD
 Sample : VSTDIC010
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:34:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	28465	9.641	ug/l	94
42) 1,2-Dichloroethane	8.416	62	69346	10.143	ug/l	99
43) Isopropyl Acetate	8.435	43	95514	10.036	ug/l	99
44) Trichloroethene	9.099	130	55649	10.274	ug/l	93
45) 1,2-Dichloropropane	9.374	63	59038	10.186	ug/l	98
46) Dibromomethane	9.471	93	34419	10.162	ug/l	97
47) Bromodichloromethane	9.648	83	76814	9.942	ug/l	95
48) Methyl methacrylate	9.441	41	42787	9.461	ug/l	95
49) 1,4-Dioxane	9.465	88	9540	201.067	ug/l #	97
51) 4-Methyl-2-Pentanone	10.215	43	269178	51.163	ug/l	99
52) Toluene	10.392	92	146853	10.214	ug/l	99
53) t-1,3-Dichloropropene	10.605	75	78747	9.897	ug/l	97
54) cis-1,3-Dichloropropene	10.081	75	90589	9.845	ug/l	96
55) 1,1,2-Trichloroethane	10.788	97	46448	9.997	ug/l	94
56) Ethyl methacrylate	10.648	69	70122	9.836	ug/l	99
57) 1,3-Dichloropropane	10.934	76	84750	10.213	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.928	63	193282	50.910	ug/l	99
59) 2-Hexanone	10.971	43	200376	52.056	ug/l	99
60) Dibromochloromethane	11.129	129	51945	10.011	ug/l	98
61) 1,2-Dibromoethane	11.239	107	47906	10.586	ug/l	94
64) Tetrachloroethene	10.861	164	45145	10.275	ug/l	94
65) Chlorobenzene	11.660	112	161494	10.099	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.727	131	48692	9.839	ug/l	98
67) Ethyl Benzene	11.733	91	275018	9.939	ug/l	98
68) m/p-Xylenes	11.836	106	211539	20.362	ug/l	97
69) o-Xylene	12.166	106	97756	9.827	ug/l	100
70) Styrene	12.178	104	170000	9.935	ug/l	99
71) Bromoform	12.343	173	29843	10.181	ug/l #	92
73) Isopropylbenzene	12.464	105	249133	9.700	ug/l	98
74) N-amyl acetate	12.269	43	84064	9.419	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.714	83	60803	9.975	ug/l	98
76) 1,2,3-Trichloropropane	12.763	75	52388m	10.924	ug/l	
77) Bromobenzene	12.745	156	60481	9.946	ug/l	97
78) n-propylbenzene	12.800	91	305079	9.754	ug/l	99
79) 2-Chlorotoluene	12.891	91	188782	9.887	ug/l	97
80) 1,3,5-Trimethylbenzene	12.940	105	208642	9.847	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.507	75	19619	9.371	ug/l	94
82) 4-Chlorotoluene	12.989	91	194147	9.776	ug/l	97
83) tert-Butylbenzene	13.202	119	176992	9.602	ug/l	98
84) 1,2,4-Trimethylbenzene	13.245	105	213291	9.897	ug/l	99
85) sec-Butylbenzene	13.379	105	268972	9.798	ug/l	99
86) p-Isopropyltoluene	13.495	119	224526	9.906	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	113975	9.886	ug/l	99
88) 1,4-Dichlorobenzene	13.574	146	117480	9.946	ug/l	93
89) n-Butylbenzene	13.818	91	214914	9.705	ug/l	100
90) Hexachloroethane	14.086	117	39430	9.649	ug/l	97
91) 1,2-Dichlorobenzene	13.867	146	106855	10.096	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.476	75	10231	9.743	ug/l	99
93) 1,2,4-Trichlorobenzene	15.123	180	64111	9.519	ug/l	94
94) Hexachlorobutadiene	15.226	225	27012	9.655	ug/l	92
95) Naphthalene	15.360	128	160481	9.555	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	58107	9.503	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032407.D
Acq On : 10 Nov 2025 15:33
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:34:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032408.D
 Acq On : 10 Nov 2025 15:55
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	457584	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	816489	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	742729	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	346736	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	118510	20.089	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	40.180%#		
35) Dibromofluoromethane	7.904	113	99490	20.352	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	40.700%#		
50) Toluene-d8	10.325	98	376146	20.057	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	40.120%#		
62) 4-Bromofluorobenzene	12.617	95	148179	20.916	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	41.840%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.046	85	42243	18.026	ug/l	90
3) Chloromethane	2.253	50	74640	18.757	ug/l	98
4) Vinyl Chloride	2.405	62	96045	19.124	ug/l	100
5) Bromomethane	2.820	94	64010	19.054	ug/l	97
6) Chloroethane	2.966	64	62143	18.913	ug/l	100
7) Trichlorofluoromethane	3.308	101	71828	18.242	ug/l	88
8) Diethyl Ether	3.722	74	61770	19.188	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.106	101	80209	18.700	ug/l	99
10) Methyl Iodide	4.314	142	132689	19.207	ug/l	100
11) Tert butyl alcohol	5.216	59	51729	101.406	ug/l	99
12) 1,1-Dichloroethene	4.076	96	92526	18.812	ug/l	99
13) Acrolein	3.929	56	87436	102.160	ug/l	99
14) Allyl chloride	4.704	41	179218	18.948	ug/l	98
15) Acrylonitrile	5.405	53	180486	96.966	ug/l	99
16) Acetone	4.161	43	167175	94.720	ug/l	99
17) Carbon Disulfide	4.417	76	274085	18.855	ug/l	98
18) Methyl Acetate	4.716	43	84037	19.228	ug/l	100
19) Methyl tert-butyl Ether	5.460	73	202532	19.535	ug/l	96
20) Methylene Chloride	4.948	84	124826	19.777	ug/l	97
21) trans-1,2-Dichloroethene	5.460	96	109177	19.413	ug/l	98
22) Diisopropyl ether	6.344	45	380288	19.748	ug/l	94
23) Vinyl Acetate	6.283	43	1286472	97.505	ug/l	99
24) 1,1-Dichloroethane	6.246	63	199778	18.935	ug/l	98
25) 2-Butanone	7.197	43	257973	99.213	ug/l	97
26) 2,2-Dichloropropane	7.185	77	112678	19.163	ug/l	98
27) cis-1,2-Dichloroethene	7.191	96	130563	19.430	ug/l	99
28) Bromochloromethane	7.532	49	97569	19.566	ug/l	98
29) Tetrahydrofuran	7.551	42	162726	98.600	ug/l	99
30) Chloroform	7.691	83	199398	19.305	ug/l	99
31) Cyclohexane	7.971	56	186039	19.062	ug/l	97
32) 1,1,1-Trichloroethane	7.886	97	142015	19.247	ug/l	99
36) 1,1-Dichloropropene	8.099	75	142545	19.790	ug/l	99
37) Ethyl Acetate	7.276	43	108602	20.277	ug/l	100
38) Carbon Tetrachloride	8.087	117	126114	19.706	ug/l	98
39) Methylcyclohexane	9.343	83	183430	19.658	ug/l	93
40) Benzene	8.337	78	460390	19.848	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032408.D
 Acq On : 10 Nov 2025 15:55
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	63058	21.432	ug/l	95
42) 1,2-Dichloroethane	8.410	62	135836	19.937	ug/l	100
43) Isopropyl Acetate	8.435	43	187892	19.812	ug/l	99
44) Trichloroethene	9.099	130	106920	19.809	ug/l	99
45) 1,2-Dichloropropane	9.374	63	115560	20.008	ug/l	99
46) Dibromomethane	9.465	93	68601	20.326	ug/l	98
47) Bromodichloromethane	9.654	83	148808	19.328	ug/l	96
48) Methyl methacrylate	9.441	41	85216	18.909	ug/l	93
49) 1,4-Dioxane	9.465	88	18879	399.292	ug/l #	97
51) 4-Methyl-2-Pentanone	10.215	43	538488	102.710	ug/l	99
52) Toluene	10.392	92	284143	19.832	ug/l	99
53) t-1,3-Dichloropropene	10.611	75	153300	19.334	ug/l	99
54) cis-1,3-Dichloropropene	10.075	75	181723	19.819	ug/l	98
55) 1,1,2-Trichloroethane	10.788	97	92074	19.886	ug/l	96
56) Ethyl methacrylate	10.648	69	142352	20.038	ug/l	99
57) 1,3-Dichloropropane	10.934	76	167175	20.216	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	386317	102.111	ug/l	100
59) 2-Hexanone	10.971	43	392754	102.391	ug/l	99
60) Dibromochloromethane	11.129	129	102649	19.852	ug/l	96
61) 1,2-Dibromoethane	11.239	107	91235	20.231	ug/l	99
64) Tetrachloroethene	10.867	164	84673	19.251	ug/l	94
65) Chlorobenzene	11.660	112	309433	19.329	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.727	131	96211	19.420	ug/l	100
67) Ethyl Benzene	11.733	91	541238	19.540	ug/l	98
68) m/p-Xylenes	11.837	106	403489	38.797	ug/l	98
69) o-Xylene	12.166	106	196711	19.754	ug/l	98
70) Styrene	12.178	104	336202	19.626	ug/l	100
71) Bromoform	12.349	173	57398	19.560	ug/l	91
73) Isopropylbenzene	12.458	105	486953	19.122	ug/l	100
74) N-amyl acetate	12.269	43	172679	19.514	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.714	83	117227	19.397	ug/l	98
76) 1,2,3-Trichloropropane	12.763	75	101298m	21.304	ug/l	
77) Bromobenzene	12.745	156	112433	18.648	ug/l	91
78) n-propylbenzene	12.800	91	598062	19.285	ug/l	100
79) 2-Chlorotoluene	12.891	91	364742	19.266	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	411841	19.603	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.507	75	38383	18.491	ug/l	94
82) 4-Chlorotoluene	12.983	91	381756	19.388	ug/l	99
83) tert-Butylbenzene	13.202	119	348802	19.086	ug/l	99
84) 1,2,4-Trimethylbenzene	13.245	105	410945	19.231	ug/l	98
85) sec-Butylbenzene	13.379	105	524886	19.284	ug/l	99
86) p-Isopropyltoluene	13.495	119	431851	19.216	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	224644	19.651	ug/l	99
88) 1,4-Dichlorobenzene	13.574	146	227987	19.467	ug/l	97
89) n-Butylbenzene	13.818	91	428136	19.500	ug/l	99
90) Hexachloroethane	14.086	117	74845	18.472	ug/l	99
91) 1,2-Dichlorobenzene	13.867	146	202982	19.343	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.482	75	20157	19.361	ug/l	97
93) 1,2,4-Trichlorobenzene	15.129	180	127966	19.162	ug/l	97
94) Hexachlorobutadiene	15.226	225	50712	18.281	ug/l	86
95) Naphthalene	15.360	128	315603	18.952	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	115969	19.128	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032408.D
Acq On : 10 Nov 2025 15:55
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

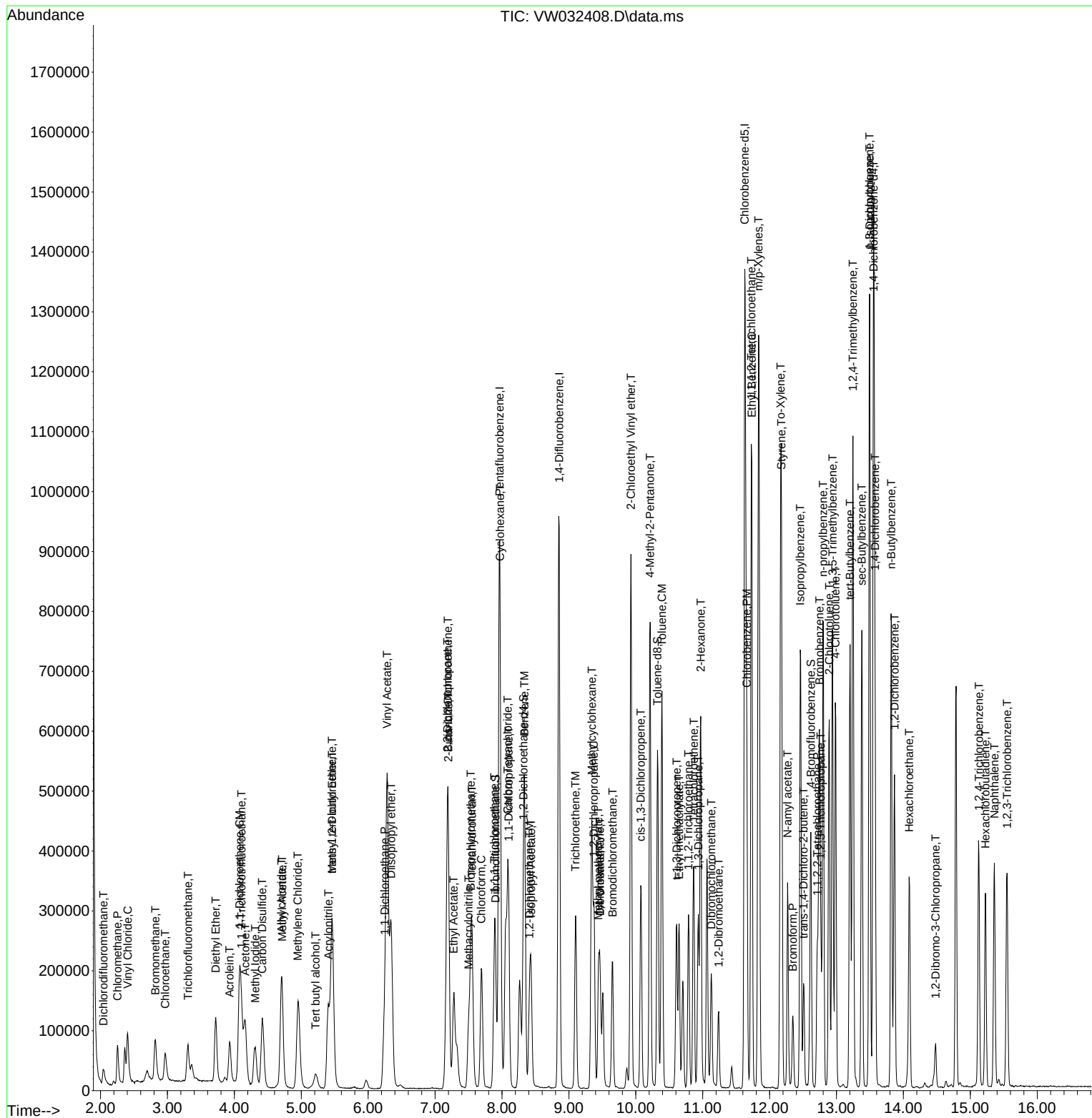
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032408.D
Acq On : 10 Nov 2025 15:55
Operator : SY/MD
Sample : VSTDIC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Quant Time: Nov 11 03:35:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032409.D
 Acq On : 10 Nov 2025 16:17
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	473870	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	839187	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	738113	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	330535	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	286867	46.956	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	93.920%		
35) Dibromofluoromethane	7.904	113	240784	47.923	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	95.840%		
50) Toluene-d8	10.325	98	948663	49.216	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	98.440%		
62) 4-Bromofluorobenzene	12.617	95	348133	47.811	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	95.620%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	117696	48.496	ug/l	100
3) Chloromethane	2.253	50	193400	46.930	ug/l	100
4) Vinyl Chloride	2.405	62	255152	49.059	ug/l	100
5) Bromomethane	2.826	94	169422	48.699	ug/l	100
6) Chloroethane	2.972	64	168250	49.446	ug/l	100
7) Trichlorofluoromethane	3.308	101	217703	53.389	ug/l	100
8) Diethyl Ether	3.722	74	161055	48.309	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.106	101	221350	49.832	ug/l	100
10) Methyl Iodide	4.307	142	352515	49.273	ug/l	100
11) Tert butyl alcohol	5.216	59	127100	240.595	ug/l	100
12) 1,1-Dichloroethene	4.082	96	255938	50.249	ug/l	100
13) Acrolein	3.929	56	213422	240.790	ug/l	100
14) Allyl chloride	4.704	41	493300	50.363	ug/l	100
15) Acrylonitrile	5.405	53	480718	249.389	ug/l	100
16) Acetone	4.161	43	440757	241.146	ug/l	100
17) Carbon Disulfide	4.423	76	761956	50.614	ug/l	100
18) Methyl Acetate	4.710	43	219594	48.517	ug/l	100
19) Methyl tert-butyl Ether	5.460	73	539886	50.284	ug/l	100
20) Methylene Chloride	4.954	84	303080	46.367	ug/l	100
21) trans-1,2-Dichloroethene	5.466	96	285957	49.100	ug/l	100
22) Diisopropyl ether	6.337	45	987895	49.536	ug/l	100
23) Vinyl Acetate	6.283	43	3459955	253.227	ug/l	100
24) 1,1-Dichloroethane	6.246	63	543885	49.778	ug/l	100
25) 2-Butanone	7.191	43	663205	246.293	ug/l	100
26) 2,2-Dichloropropane	7.185	77	293455	48.192	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	345581	49.660	ug/l	100
28) Bromochloromethane	7.532	49	237900	46.067	ug/l	100
29) Tetrahydrofuran	7.551	42	429579	251.347	ug/l	100
30) Chloroform	7.691	83	525290	49.110	ug/l	100
31) Cyclohexane	7.971	56	486431	48.128	ug/l	100
32) 1,1,1-Trichloroethane	7.892	97	387016	50.649	ug/l	100
36) 1,1-Dichloropropene	8.099	75	382172	51.624	ug/l	100
37) Ethyl Acetate	7.270	43	283001	51.410	ug/l	100
38) Carbon Tetrachloride	8.081	117	334794	50.897	ug/l	100
39) Methylcyclohexane	9.343	83	501951	52.340	ug/l	100
40) Benzene	8.337	78	1206225	50.596	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032409.D
 Acq On : 10 Nov 2025 16:17
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.496	41	157157	51.970	ug/l	100
42) 1,2-Dichloroethane	8.410	62	353418	50.470	ug/l	100
43) Isopropyl Acetate	8.435	43	506886	52.003	ug/l	100
44) Trichloroethene	9.099	130	280938	50.643	ug/l	100
45) 1,2-Dichloropropane	9.374	63	298715	50.321	ug/l	100
46) Dibromomethane	9.465	93	177243	51.095	ug/l	100
47) Bromodichloromethane	9.654	83	404213	51.082	ug/l	100
48) Methyl methacrylate	9.441	41	254032	54.845	ug/l	100
49) 1,4-Dioxane	9.465	88	51534	1060.466	ug/l #	100
51) 4-Methyl-2-Pentanone	10.209	43	1411536	261.951	ug/l	100
52) Toluene	10.392	92	750381	50.957	ug/l	100
53) t-1,3-Dichloropropene	10.605	75	422565	51.852	ug/l	100
54) cis-1,3-Dichloropropene	10.075	75	485529	51.519	ug/l	100
55) 1,1,2-Trichloroethane	10.788	97	245652	51.620	ug/l	100
56) Ethyl methacrylate	10.648	69	384615	52.675	ug/l	100
57) 1,3-Dichloropropane	10.934	76	438483	51.590	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	947852	243.759	ug/l	100
59) 2-Hexanone	10.971	43	1024540	259.873	ug/l	100
60) Dibromochloromethane	11.129	129	268368	50.499	ug/l	100
61) 1,2-Dibromoethane	11.239	107	235648	50.842	ug/l	100
64) Tetrachloroethene	10.867	164	221732	50.729	ug/l	100
65) Chlorobenzene	11.654	112	836572	52.585	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.727	131	249919	50.760	ug/l	100
67) Ethyl Benzene	11.727	91	1434522	52.113	ug/l	100
68) m/p-Xylenes	11.836	106	1080126	104.508	ug/l	100
69) o-Xylene	12.166	106	503049	50.833	ug/l	100
70) Styrene	12.178	104	891578	52.373	ug/l	100
71) Bromoform	12.349	173	149754	51.352	ug/l	100
73) Isopropylbenzene	12.464	105	1311412	54.022	ug/l	100
74) N-amyl acetate	12.269	43	463709	54.971	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.714	83	306330	53.171	ug/l	100
76) 1,2,3-Trichloropropane	12.763	75	221825m	48.938	ug/l	
77) Bromobenzene	12.745	156	311375	54.174	ug/l	100
78) n-propylbenzene	12.800	91	1592697	53.874	ug/l	100
79) 2-Chlorotoluene	12.891	91	949870	52.633	ug/l	100
80) 1,3,5-Trimethylbenzene	12.940	105	1071434	53.498	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.513	75	108494	54.830	ug/l	100
82) 4-Chlorotoluene	12.983	91	994389	52.976	ug/l	100
83) tert-Butylbenzene	13.202	119	952056	54.647	ug/l	100
84) 1,2,4-Trimethylbenzene	13.245	105	1087654	53.395	ug/l	100
85) sec-Butylbenzene	13.379	105	1387291	53.468	ug/l	100
86) p-Isopropyltoluene	13.495	119	1135093	52.985	ug/l	100
87) 1,3-Dichlorobenzene	13.495	146	568988	52.213	ug/l	100
88) 1,4-Dichlorobenzene	13.574	146	586517	52.535	ug/l	100
89) n-Butylbenzene	13.818	91	1119974	53.512	ug/l	100
90) Hexachloroethane	14.086	117	206125	53.365	ug/l	100
91) 1,2-Dichlorobenzene	13.867	146	510688	51.050	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.482	75	52673	53.072	ug/l	100
93) 1,2,4-Trichlorobenzene	15.129	180	341171	53.593	ug/l	100
94) Hexachlorobutadiene	15.226	225	139533	52.766	ug/l	100
95) Naphthalene	15.360	128	858633	54.088	ug/l	100
96) 1,2,3-Trichlorobenzene	15.549	180	297797	51.526	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032409.D
Acq On : 10 Nov 2025 16:17
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032410.D
 Acq On : 10 Nov 2025 16:39
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:36:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	429725	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	800384	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	693653	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	316801	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	550189	99.309	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 198.620%#			
35) Dibromofluoromethane	7.898	113	474936	99.108	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 198.220%#			
50) Toluene-d8	10.324	98	1818950	98.942	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 197.880%#			
62) 4-Bromofluorobenzene	12.617	95	681369	98.113	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 196.220%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.045	85	209198	95.054	ug/l	97
3) Chloromethane	2.253	50	376296	100.692	ug/l	100
4) Vinyl Chloride	2.405	62	466906	98.996	ug/l	96
5) Bromomethane	2.820	94	312741	99.129	ug/l	99
6) Chloroethane	2.966	64	310998	100.786	ug/l	99
7) Trichlorofluoromethane	3.307	101	379643	102.667	ug/l	95
8) Diethyl Ether	3.722	74	301478	99.719	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.106	101	393269	97.631	ug/l	100
10) Methyl Iodide	4.307	142	670896	103.409	ug/l	97
11) Tert butyl alcohol	5.216	59	233477	487.365	ug/l	99
12) 1,1-Dichloroethene	4.076	96	462998	100.240	ug/l	98
13) Acrolein	3.929	56	403577	502.106	ug/l	100
14) Allyl chloride	4.703	41	915284	103.044	ug/l	99
15) Acrylonitrile	5.405	53	878664	502.664	ug/l	100
16) Acetone	4.161	43	816608	492.679	ug/l	99
17) Carbon Disulfide	4.417	76	1412864	103.493	ug/l	98
18) Methyl Acetate	4.710	43	409034	99.655	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	967405	99.359	ug/l	99
20) Methylene Chloride	4.953	84	565294	95.367	ug/l	97
21) trans-1,2-Dichloroethene	5.459	96	536141	101.514	ug/l	99
22) Diisopropyl ether	6.343	45	1834328	101.428	ug/l	93
23) Vinyl Acetate	6.282	43	6417015	517.894	ug/l	98
24) 1,1-Dichloroethane	6.246	63	1003793	101.307	ug/l	99
25) 2-Butanone	7.191	43	1219983	499.605	ug/l	99
26) 2,2-Dichloropropane	7.191	77	540572	97.893	ug/l	98
27) cis-1,2-Dichloroethene	7.191	96	642856	101.868	ug/l	99
28) Bromochloromethane	7.532	49	462255	98.707	ug/l	98
29) Tetrahydrofuran	7.551	42	781708	504.365	ug/l	100
30) Chloroform	7.697	83	980958	101.132	ug/l	98
31) Cyclohexane	7.971	56	861642	94.009	ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	701923	101.298	ug/l	100
36) 1,1-Dichloropropene	8.099	75	697975	98.854	ug/l	99
37) Ethyl Acetate	7.270	43	511684	97.458	ug/l	99
38) Carbon Tetrachloride	8.087	117	617665	98.453	ug/l	98
39) Methylcyclohexane	9.343	83	898941	98.279	ug/l	93
40) Benzene	8.337	78	2261437	99.457	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032410.D
 Acq On : 10 Nov 2025 16:39
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC100

Quant Time: Nov 11 03:36:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	292045	101.259	ug/l	98
42) 1,2-Dichloroethane	8.410	62	655360	98.125	ug/l	100
43) Isopropyl Acetate	8.434	43	929467	99.979	ug/l	100
44) Trichloroethene	9.099	130	516649	97.647	ug/l	94
45) 1,2-Dichloropropane	9.373	63	560668	99.027	ug/l	98
46) Dibromomethane	9.465	93	322963	97.615	ug/l	99
47) Bromodichloromethane	9.648	83	769561	101.968	ug/l	97
48) Methyl methacrylate	9.440	41	439533	99.494	ug/l	94
49) 1,4-Dioxane	9.459	88	92138	1987.934	ug/l #	97
51) 4-Methyl-2-Pentanone	10.215	43	2535868	493.417	ug/l	100
52) Toluene	10.391	92	1393077	99.188	ug/l	99
53) t-1,3-Dichloropropene	10.605	75	813483	104.660	ug/l	99
54) cis-1,3-Dichloropropene	10.074	75	921332	102.501	ug/l	98
55) 1,1,2-Trichloroethane	10.788	97	445589	98.174	ug/l	97
56) Ethyl methacrylate	10.648	69	718120	103.118	ug/l	99
57) 1,3-Dichloropropane	10.934	76	795798	98.169	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	1907914	514.445	ug/l	100
59) 2-Hexanone	10.971	43	1848731	491.662	ug/l	99
60) Dibromochloromethane	11.129	129	512808	101.174	ug/l	99
61) 1,2-Dibromoethane	11.239	107	434659	98.325	ug/l	99
64) Tetrachloroethene	10.867	164	419713	102.178	ug/l	93
65) Chlorobenzene	11.660	112	1515655	101.377	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.727	131	479510	103.634	ug/l	99
67) Ethyl Benzene	11.727	91	2656753	102.700	ug/l	99
68) m/p-Xylenes	11.836	106	1963495	202.156	ug/l	99
69) o-Xylene	12.166	106	969597	104.258	ug/l	97
70) Styrene	12.178	104	1681973	105.135	ug/l	99
71) Bromoform	12.348	173	284967	103.980	ug/l #	98
73) Isopropylbenzene	12.464	105	2395772	102.968	ug/l	100
74) N-amyl acetate	12.269	43	845015	104.515	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.714	83	551839	99.938	ug/l	99
76) 1,2,3-Trichloropropane	12.769	75	393778m	90.639	ug/l	
77) Bromobenzene	12.745	156	546510	99.206	ug/l	92
78) n-propylbenzene	12.800	91	2892121	102.070	ug/l	99
79) 2-Chlorotoluene	12.891	91	1767116	102.163	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	1955044	101.850	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.513	75	204550	107.855	ug/l	97
82) 4-Chlorotoluene	12.989	91	1810987	100.663	ug/l	99
83) tert-Butylbenzene	13.202	119	1702452	101.956	ug/l	98
84) 1,2,4-Trimethylbenzene	13.251	105	1945604	99.654	ug/l	98
85) sec-Butylbenzene	13.379	105	2472114	99.408	ug/l	100
86) p-Isopropyltoluene	13.495	119	2083658	101.480	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	1051226	100.648	ug/l	98
88) 1,4-Dichlorobenzene	13.574	146	1050230	98.149	ug/l	99
89) n-Butylbenzene	13.818	91	2017115	100.554	ug/l	100
90) Hexachloroethane	14.092	117	379045	102.388	ug/l	97
91) 1,2-Dichlorobenzene	13.866	146	955867	99.694	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.476	75	96032	100.954	ug/l	97
93) 1,2,4-Trichlorobenzene	15.128	180	615828	100.931	ug/l	96
94) Hexachlorobutadiene	15.226	225	255953	100.987	ug/l	98
95) Naphthalene	15.360	128	1638729	107.703	ug/l	99
96) 1,2,3-Trichlorobenzene	15.543	180	557493	100.642	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032410.D
Acq On : 10 Nov 2025 16:39
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032411.D
 Acq On : 10 Nov 2025 17:00
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC150

Quant Time: Nov 11 03:37:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	435986	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	797552	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	719357	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	315359	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	823539	146.514	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 293.020%#			
35) Dibromofluoromethane	7.904	113	696957	145.955	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 291.920%#			
50) Toluene-d8	10.325	98	2691800	146.940	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 293.880%#			
62) 4-Bromofluorobenzene	12.617	95	1007366	145.569	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 291.140%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.046	85	300485	134.572	ug/l	98
3) Chloromethane	2.253	50	575315	151.736	ug/l	99
4) Vinyl Chloride	2.405	62	690759	144.355	ug/l	100
5) Bromomethane	2.814	94	468539	146.379	ug/l	97
6) Chloroethane	2.966	64	463613	148.087	ug/l	100
7) Trichlorofluoromethane	3.308	101	591071	157.548	ug/l	95
8) Diethyl Ether	3.716	74	454616	148.213	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.100	101	586837	143.593	ug/l	100
10) Methyl Iodide	4.301	142	977057	148.436	ug/l	98
11) Tert butyl alcohol	5.216	59	341966	703.576	ug/l	99
12) 1,1-Dichloroethene	4.076	96	684456	146.058	ug/l	95
13) Acrolein	3.930	56	599820	735.542	ug/l	97
14) Allyl chloride	4.704	41	1348651	149.653	ug/l	99
15) Acrylonitrile	5.399	53	1304835	735.748	ug/l	100
16) Acetone	4.161	43	1231978	732.607	ug/l	98
17) Carbon Disulfide	4.417	76	2097048	151.404	ug/l	99
18) Methyl Acetate	4.704	43	637225	153.021	ug/l	100
19) Methyl tert-butyl Ether	5.460	73	1407972	142.531	ug/l	98
20) Methylene Chloride	4.954	84	823132	136.871	ug/l	99
21) trans-1,2-Dichloroethene	5.460	96	782759	146.081	ug/l	96
22) Diisopropyl ether	6.338	45	2672365	145.645	ug/l	99
23) Vinyl Acetate	6.283	43	9418125	749.187	ug/l	99
24) 1,1-Dichloroethane	6.246	63	1487877	148.007	ug/l	99
25) 2-Butanone	7.191	43	1820645	734.880	ug/l	99
26) 2,2-Dichloropropane	7.185	77	774362	138.217	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	946132	147.772	ug/l	99
28) Bromochloromethane	7.533	49	689075	145.028	ug/l #	16
29) Tetrahydrofuran	7.551	42	1147539	729.769	ug/l	100
30) Chloroform	7.691	83	1443061	146.635	ug/l	99
31) Cyclohexane	7.972	56	1276256	137.246	ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	1016260	144.555	ug/l	98
36) 1,1-Dichloropropene	8.093	75	1045183	148.554	ug/l	99
37) Ethyl Acetate	7.270	43	758180	144.920	ug/l	100
38) Carbon Tetrachloride	8.081	117	935129	149.585	ug/l	98
39) Methylcyclohexane	9.343	83	1368173	150.110	ug/l	94
40) Benzene	8.337	78	3302092	145.740	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032411.D
 Acq On : 10 Nov 2025 17:00
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC150

Quant Time: Nov 11 03:37:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	439701	152.996	ug/l	98
42) 1,2-Dichloroethane	8.410	62	977444	146.870	ug/l	100
43) Isopropyl Acetate	8.435	43	1401399	151.278	ug/l	100
44) Trichloroethene	9.099	130	771901	146.409	ug/l	95
45) 1,2-Dichloropropane	9.374	63	828599	146.870	ug/l	98
46) Dibromomethane	9.465	93	477479	144.830	ug/l	97
47) Bromodichloromethane	9.648	83	1152120	153.199	ug/l	97
48) Methyl methacrylate	9.441	41	706671	160.532	ug/l	100
49) 1,4-Dioxane	9.459	88	132273	2864.004	ug/l #	100
51) 4-Methyl-2-Pentanone	10.209	43	3720409	726.470	ug/l	99
52) Toluene	10.392	92	2054324	146.788	ug/l	97
53) t-1,3-Dichloropropene	10.611	75	1212474	156.547	ug/l	98
54) cis-1,3-Dichloropropene	10.075	75	1373940	153.398	ug/l	99
55) 1,1,2-Trichloroethane	10.788	97	661729	146.312	ug/l	98
56) Ethyl methacrylate	10.648	69	1077015	155.202	ug/l	99
57) 1,3-Dichloropropane	10.934	76	1184554	146.644	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	2815169	761.770	ug/l	100
59) 2-Hexanone	10.971	43	2707666	722.649	ug/l	99
60) Dibromochloromethane	11.130	129	771162	152.685	ug/l	98
61) 1,2-Dibromoethane	11.233	107	650672	147.713	ug/l	97
64) Tetrachloroethene	10.867	164	618662	145.230	ug/l	88
65) Chlorobenzene	11.654	112	2207255	142.361	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.727	131	706156	147.164	ug/l	99
67) Ethyl Benzene	11.727	91	3839407	143.114	ug/l	97
68) m/p-Xylenes	11.837	106	2923713	290.261	ug/l	96
69) o-Xylene	12.166	106	1409302	146.124	ug/l	97
70) Styrene	12.178	104	2411726	145.364	ug/l	99
71) Bromoform	12.349	173	423010	148.835	ug/l #	95
73) Isopropylbenzene	12.459	105	3489900	150.679	ug/l	99
74) N-amyl acetate	12.270	43	1227847	152.560	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.715	83	786139	143.021	ug/l	98
76) 1,2,3-Trichloropropane	12.763	75	573471m	132.604	ug/l	
77) Bromobenzene	12.745	156	813648	148.374	ug/l	97
78) n-propylbenzene	12.800	91	4246088	150.540	ug/l	99
79) 2-Chlorotoluene	12.891	91	2572090	149.381	ug/l	100
80) 1,3,5-Trimethylbenzene	12.940	105	2817712	147.463	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.507	75	307315	162.783	ug/l	96
82) 4-Chlorotoluene	12.983	91	2684128	149.879	ug/l	100
83) tert-Butylbenzene	13.202	119	2490454	149.829	ug/l	96
84) 1,2,4-Trimethylbenzene	13.245	105	2901660	149.302	ug/l	100
85) sec-Butylbenzene	13.379	105	3673311	148.386	ug/l	100
86) p-Isopropyltoluene	13.495	119	3073760	150.385	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	1509962	145.231	ug/l	98
88) 1,4-Dichlorobenzene	13.574	146	1515160	142.246	ug/l	97
89) n-Butylbenzene	13.818	91	3032908	151.884	ug/l	99
90) Hexachloroethane	14.086	117	584015	158.476	ug/l	98
91) 1,2-Dichlorobenzene	13.867	146	1407554	147.475	ug/l	94
92) 1,2-Dibromo-3-Chloropr...	14.476	75	145307	153.453	ug/l	94
93) 1,2,4-Trichlorobenzene	15.129	180	938399	154.502	ug/l	98
94) Hexachlorobutadiene	15.232	225	391549	155.194	ug/l	96
95) Naphthalene	15.360	128	2339043	154.434	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	856827	155.386	ug/l	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032411.D
Acq On : 10 Nov 2025 17:00
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:37:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

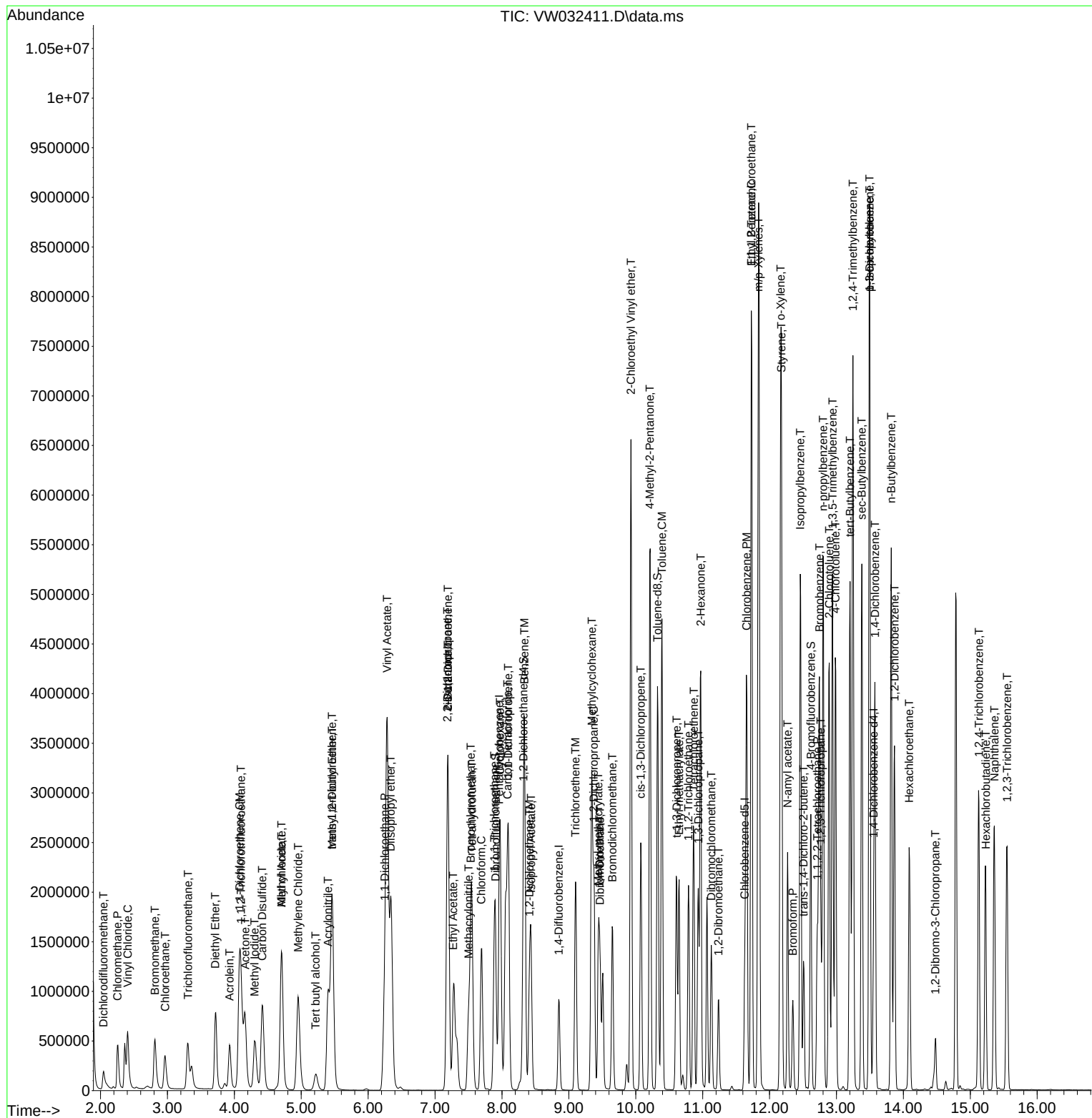
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032411.D
 Acq On : 10 Nov 2025 17:00
 Operator : SY/MD
 Sample : VSTDIC150
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC150

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:37:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032413.D
 Acq On : 10 Nov 2025 17:44
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW111025

Quant Time: Nov 11 03:51:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	457772	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	826297	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.636	117	742649	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	335568	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	292374	49.540	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	99.080%		
35) Dibromofluoromethane	7.898	113	246711	49.868	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	99.740%		
50) Toluene-d8	10.325	98	943721	49.724	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	99.440%		
62) 4-Bromofluorobenzene	12.617	95	362720	50.591	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	101.180%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.046	85	103260	44.460	ug/l	97
3) Chloromethane	2.253	50	191682	48.149	ug/l	100
4) Vinyl Chloride	2.405	62	236975	47.166	ug/l	95
5) Bromomethane	2.826	94	161727	48.121	ug/l	98
6) Chloroethane	2.966	64	157091	47.790	ug/l	99
7) Trichlorofluoromethane	3.308	101	198210	50.318	ug/l	93
8) Diethyl Ether	3.722	74	155105	48.160	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.106	101	203133	47.339	ug/l	99
10) Methyl Iodide	4.314	142	345049	49.926	ug/l	97
11) Tert butyl alcohol	5.210	59	123907	242.799	ug/l	100
12) 1,1-Dichloroethene	4.082	96	232539	47.260	ug/l	97
13) Acrolein	3.930	56	205590	240.111	ug/l	100
14) Allyl chloride	4.710	41	463711	49.007	ug/l	99
15) Acrylonitrile	5.405	53	461322	247.743	ug/l	100
16) Acetone	4.161	43	446031	252.613	ug/l	99
17) Carbon Disulfide	4.423	76	712178	48.971	ug/l	99
18) Methyl Acetate	4.710	43	222685	50.930	ug/l	98
19) Methyl tert-butyl Ether	5.466	73	521562	50.286	ug/l	99
20) Methylene Chloride	4.960	84	292767	46.365	ug/l	96
21) trans-1,2-Dichloroethene	5.460	96	264891	47.082	ug/l	99
22) Diisopropyl ether	6.338	45	949736	49.298	ug/l	99
23) Vinyl Acetate	6.283	43	3293228	249.500	ug/l	99
24) 1,1-Dichloroethane	6.246	63	510813	48.395	ug/l	98
25) 2-Butanone	7.191	43	649663	249.748	ug/l	100
26) 2,2-Dichloropropane	7.191	77	278144	47.283	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	326672	48.593	ug/l	100
28) Bromochloromethane	7.533	49	238363	47.780	ug/l	97
29) Tetrahydrofuran	7.551	42	415747	251.809	ug/l	99
30) Chloroform	7.697	83	496469	48.047	ug/l	98
31) Cyclohexane	7.972	56	441733	45.242	ug/l	99
32) 1,1,1-Trichloroethane	7.892	97	359677	48.726	ug/l	100
36) 1,1-Dichloropropene	8.100	75	354738	48.666	ug/l	99
37) Ethyl Acetate	7.277	43	273800	50.514	ug/l	99
38) Carbon Tetrachloride	8.087	117	311936	48.162	ug/l	96
39) Methylcyclohexane	9.343	83	450888	47.748	ug/l	89
40) Benzene	8.337	78	1144488	48.756	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032413.D
 Acq On : 10 Nov 2025 17:44
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW111025

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:51:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	152683	51.279	ug/l	98
42) 1,2-Dichloroethane	8.410	62	338257	49.058	ug/l	99
43) Isopropyl Acetate	8.435	43	482186	50.240	ug/l	100
44) Trichloroethene	9.099	130	256771	47.008	ug/l	98
45) 1,2-Dichloropropane	9.374	63	284966	48.753	ug/l	100
46) Dibromomethane	9.465	93	170725	49.983	ug/l	97
47) Bromodichloromethane	9.648	83	381617	48.979	ug/l	96
48) Methyl methacrylate	9.441	41	226548	49.674	ug/l	95
49) 1,4-Dioxane	9.465	88	46205	965.638	ug/l #	99
51) 4-Methyl-2-Pentanone	10.209	43	1355743	255.521	ug/l	99
52) Toluene	10.392	92	697639	48.115	ug/l	98
53) t-1,3-Dichloropropene	10.611	75	398178	49.622	ug/l	100
54) cis-1,3-Dichloropropene	10.075	75	460102	49.583	ug/l	97
55) 1,1,2-Trichloroethane	10.788	97	223598	47.719	ug/l	98
56) Ethyl methacrylate	10.648	69	367486	51.114	ug/l	99
57) 1,3-Dichloropropane	10.934	76	411537	49.175	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	949029	247.869	ug/l	99
59) 2-Hexanone	10.965	43	984290	253.559	ug/l	100
60) Dibromochloromethane	11.129	129	255752	48.876	ug/l	98
61) 1,2-Dibromoethane	11.233	107	225223	49.350	ug/l	99
64) Tetrachloroethene	10.861	164	210025	47.757	ug/l	90
65) Chlorobenzene	11.654	112	772847	48.283	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.727	131	234293	47.296	ug/l	97
67) Ethyl Benzene	11.727	91	1336202	48.245	ug/l	95
68) m/p-Xylenes	11.837	106	1020533	98.139	ug/l	99
69) o-Xylene	12.166	106	485568	48.767	ug/l	98
70) Styrene	12.178	104	858740	50.136	ug/l	98
71) Bromoform	12.349	173	147519	50.276	ug/l #	95
73) Isopropylbenzene	12.459	105	1201571	48.754	ug/l	99
74) N-amyl acetate	12.270	43	439444	51.313	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.715	83	289144	49.435	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	209388m	45.507	ug/l	
77) Bromobenzene	12.745	156	290897	49.852	ug/l	98
78) n-propylbenzene	12.800	91	1506843	50.206	ug/l	98
79) 2-Chlorotoluene	12.891	91	908334	49.577	ug/l	98
80) 1,3,5-Trimethylbenzene	12.940	105	1005706	49.463	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.507	75	102563	51.055	ug/l	99
82) 4-Chlorotoluene	12.983	91	944717	49.575	ug/l	99
83) tert-Butylbenzene	13.202	119	883415	49.947	ug/l	99
84) 1,2,4-Trimethylbenzene	13.245	105	1029723	49.793	ug/l	100
85) sec-Butylbenzene	13.379	105	1278459	48.534	ug/l	98
86) p-Isopropyltoluene	13.495	119	1070542	49.222	ug/l	100
87) 1,3-Dichlorobenzene	13.495	146	546952	49.439	ug/l	97
88) 1,4-Dichlorobenzene	13.574	146	549573	48.488	ug/l	99
89) n-Butylbenzene	13.818	91	1036054	48.759	ug/l	99
90) Hexachloroethane	14.086	117	191658	48.875	ug/l	99
91) 1,2-Dichlorobenzene	13.867	146	491597	48.405	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.476	75	50261	49.882	ug/l	99
93) 1,2,4-Trichlorobenzene	15.123	180	322348	49.877	ug/l	96
94) Hexachlorobutadiene	15.232	225	137633	51.267	ug/l	97
95) Naphthalene	15.360	128	806082	50.016	ug/l	99
96) 1,2,3-Trichlorobenzene	15.543	180	290012	49.427	ug/l	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVW111025

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

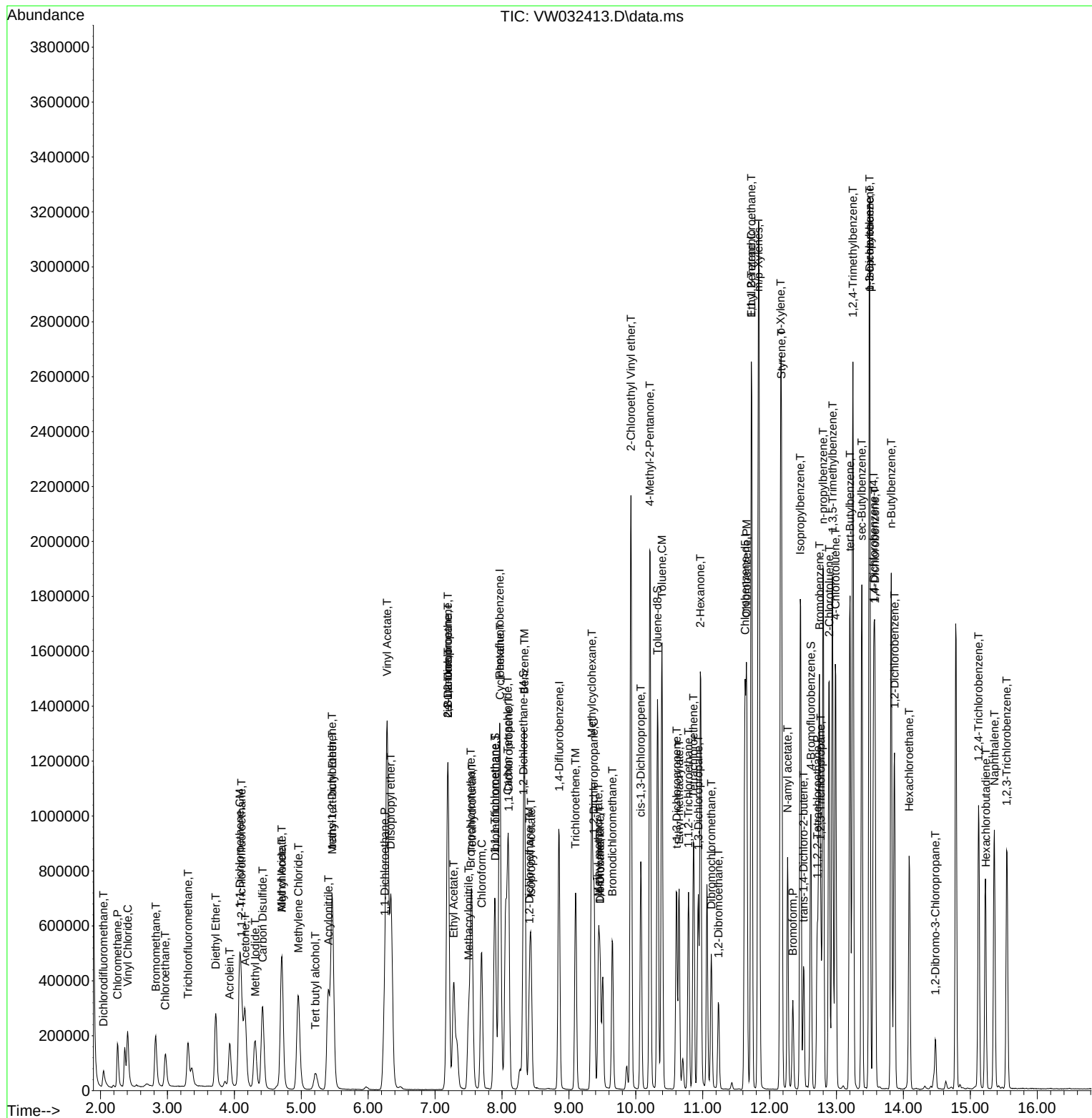
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVW111025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032413.D
 Acq On : 10 Nov 2025 17:44
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW111025

Quant Time: Nov 11 03:51:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 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	97	0.00
2 T	Dichlorodifluoromethane	0.254	0.226	11.0	88	0.00
3 P	Chloromethane	0.435	0.419	3.7	99	0.00
4 C	Vinyl Chloride	0.549	0.518	5.6#	93	0.00
5 T	Bromomethane	0.367	0.353	3.8	95	0.00
6 T	Chloroethane	0.359	0.343	4.5	93	0.00
7 T	Trichlorofluoromethane	0.430	0.433	-0.7	91	0.00
8 T	Diethyl Ether	0.352	0.339	3.7	96	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.469	0.444	5.3	92	0.00
10 T	Methyl Iodide	0.755	0.754	0.1	98	0.00
11 T	Tert butyl alcohol	0.056	0.054	3.6	97	0.00
12 CM	1,1-Dichloroethene	0.537	0.508	5.4#	91	0.00
13 T	Acrolein	0.094	0.090	4.3	96	0.00
14 T	Allyl chloride	1.034	1.013	2.0	94	0.00
15 T	Acrylonitrile	0.203	0.202	0.5	96	0.00
16 T	Acetone	0.193	0.195	-1.0	101	0.00
17 T	Carbon Disulfide	1.588	1.556	2.0	93	0.00
18 T	Methyl Acetate	0.478	0.486	-1.7	101	0.00
19 T	Methyl tert-butyl Ether	1.133	1.139	-0.5	97	0.00
20 T	Methylene Chloride	0.690	0.640	7.2	97	0.00
21 T	trans-1,2-Dichloroethene	0.615	0.579	5.9	93	0.00
22 T	Diisopropyl ether	2.104	2.075	1.4	96	0.00
23 T	Vinyl Acetate	1.442	1.439	0.2	95	0.00
24 P	1,1-Dichloroethane	1.153	1.116	3.2	94	0.00
25 T	2-Butanone	0.284	0.284	0.0	98	0.00
26 T	2,2-Dichloropropane	0.643	0.608	5.4	95	0.00
27 T	cis-1,2-Dichloroethene	0.734	0.714	2.7	95	0.00
28 T	Bromochloromethane	0.545	0.521	4.4	100	0.00
29 T	Tetrahydrofuran	0.180	0.182	-1.1	97	0.00
30 C	Chloroform	1.129	1.085	3.9#	95	0.00
31 T	Cyclohexane	1.066	0.965	9.5	91	0.00
32 T	1,1,1-Trichloroethane	0.806	0.786	2.5	93	0.00
33 S	1,2-Dichloroethane-d4	0.645	0.639	0.9	102	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
35 S	Dibromofluoromethane	0.299	0.299	0.0	102	0.00
36 T	1,1-Dichloropropene	0.441	0.429	2.7	93	0.00
37 T	Ethyl Acetate	0.328	0.331	-0.9	97	0.00
38 T	Carbon Tetrachloride	0.392	0.378	3.6	93	0.00
39 T	Methylcyclohexane	0.571	0.546	4.4	90	0.00
40 TM	Benzene	1.420	1.385	2.5	95	0.00
41 T	Methacrylonitrile	0.180	0.185	-2.8	97	0.00
42 TM	1,2-Dichloroethane	0.417	0.409	1.9	96	0.00
43 T	Isopropyl Acetate	0.581	0.584	-0.5	95	0.00
44 TM	Trichloroethene	0.331	0.311	6.0	91	0.00
45 C	1,2-Dichloropropane	0.354	0.345	2.5#	95	0.00
46 T	Dibromomethane	0.207	0.207	0.0	96	0.00
47 T	Bromodichloromethane	0.471	0.462	1.9	94	0.00
48 T	Methyl methacrylate	0.276	0.274	0.7	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032413.D
 Acq On : 10 Nov 2025 17:44
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW111025

Quant Time: Nov 11 03:51:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.003	0.003	0.0	90	0.00
50 S	Toluene-d8	1.148	1.142	0.5	99	0.00
51 T	4-Methyl-2-Pentanone	0.321	0.328	-2.2	96	0.00
52 CM	Toluene	0.877	0.844	3.8#	93	0.00
53 T	t-1,3-Dichloropropene	0.486	0.482	0.8	94	0.00
54 T	cis-1,3-Dichloropropene	0.562	0.557	0.9	95	0.00
55 T	1,1,2-Trichloroethane	0.284	0.271	4.6	91	0.00
56 T	Ethyl methacrylate	0.435	0.445	-2.3	96	0.00
57 T	1,3-Dichloropropane	0.506	0.498	1.6	94	0.00
58 T	2-Chloroethyl Vinyl ether	0.232	0.230	0.9	100	0.00
59 T	2-Hexanone	0.235	0.238	-1.3	96	0.00
60 T	Dibromochloromethane	0.317	0.310	2.2	95	0.00
61 T	1,2-Dibromoethane	0.276	0.273	1.1	96	0.00
62 S	4-Bromofluorobenzene	0.434	0.439	-1.2	104	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64 T	Tetrachloroethene	0.296	0.283	4.4	95	0.00
65 PM	Chlorobenzene	1.078	1.041	3.4	92	0.00
66 T	1,1,1,2-Tetrachloroethane	0.334	0.315	5.7	94	0.00
67 C	Ethyl Benzene	1.865	1.799	3.5#	93	0.00
68 T	m/p-Xylenes	0.700	0.687	1.9	94	0.00
69 T	o-Xylene	0.670	0.654	2.4	97	0.00
70 T	Styrene	1.153	1.156	-0.3	96	0.00
71 P	Bromoform	0.198	0.199	-0.5	99	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73 T	Isopropylbenzene	3.672	3.581	2.5	92	0.00
74 T	N-amyl acetate	1.276	1.310	-2.7	95	0.00
75 P	1,1,2,2-Tetrachloroethane	0.871	0.862	1.0	94	0.00
76 T	1,2,3-Trichloropropane	0.686	0.624	9.0	94	0.00
77 T	Bromobenzene	0.869	0.867	0.2	93	0.00
78 T	n-propylbenzene	4.472	4.490	-0.4	95	0.00
79 T	2-Chlorotoluene	2.730	2.707	0.8	96	0.00
80 T	1,3,5-Trimethylbenzene	3.030	2.997	1.1	94	0.00
81 T	trans-1,4-Dichloro-2-butene	0.299	0.306	-2.3	95	0.00
82 T	4-Chlorotoluene	2.839	2.815	0.8	95	0.00
83 T	tert-Butylbenzene	2.635	2.633	0.1	93	0.00
84 T	1,2,4-Trimethylbenzene	3.081	3.069	0.4	95	0.00
85 T	sec-Butylbenzene	3.925	3.810	2.9	92	0.00
86 T	p-Isopropyltoluene	3.241	3.190	1.6	94	0.00
87 T	1,3-Dichlorobenzene	1.648	1.630	1.1	96	0.00
88 T	1,4-Dichlorobenzene	1.689	1.638	3.0	94	0.00
89 T	n-Butylbenzene	3.166	3.087	2.5	93	0.00
90 T	Hexachloroethane	0.584	0.571	2.2	93	0.00
91 T	1,2-Dichlorobenzene	1.513	1.465	3.2	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.150	0.150	0.0	95	0.00
93 T	1,2,4-Trichlorobenzene	0.963	0.961	0.2	94	0.00
94 T	Hexachlorobutadiene	0.400	0.410	-2.5	99	0.00
95 T	Naphthalene	2.401	2.402	-0.0	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVWV111025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
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	0.874	0.864	1.1	97	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032413.D
 Acq On : 10 Nov 2025 17:44
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW111025

Quant Time: Nov 11 03:51:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 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	97	0.00
2 T	Dichlorodifluoromethane	50.000	44.460	11.1	88	0.00
3 P	Chloromethane	50.000	48.149	3.7	99	0.00
4 C	Vinyl Chloride	50.000	47.166	5.7#	93	0.00
5 T	Bromomethane	50.000	48.121	3.8	95	0.00
6 T	Chloroethane	50.000	47.790	4.4	93	0.00
7 T	Trichlorofluoromethane	50.000	50.318	-0.6	91	0.00
8 T	Diethyl Ether	50.000	48.160	3.7	96	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	47.339	5.3	92	0.00
10 T	Methyl Iodide	50.000	49.926	0.1	98	0.00
11 T	Tert butyl alcohol	250.000	242.799	2.9	97	0.00
12 CM	1,1-Dichloroethene	50.000	47.260	5.5#	91	0.00
13 T	Acrolein	250.000	240.111	4.0	96	0.00
14 T	Allyl chloride	50.000	49.007	2.0	94	0.00
15 T	Acrylonitrile	250.000	247.743	0.9	96	0.00
16 T	Acetone	250.000	252.613	-1.0	101	0.00
17 T	Carbon Disulfide	50.000	48.971	2.1	93	0.00
18 T	Methyl Acetate	50.000	50.930	-1.9	101	0.00
19 T	Methyl tert-butyl Ether	50.000	50.286	-0.6	97	0.00
20 T	Methylene Chloride	50.000	46.365	7.3	97	0.00
21 T	trans-1,2-Dichloroethene	50.000	47.082	5.8	93	0.00
22 T	Diisopropyl ether	50.000	49.298	1.4	96	0.00
23 T	Vinyl Acetate	250.000	249.500	0.2	95	0.00
24 P	1,1-Dichloroethane	50.000	48.395	3.2	94	0.00
25 T	2-Butanone	250.000	249.748	0.1	98	0.00
26 T	2,2-Dichloropropane	50.000	47.283	5.4	95	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.593	2.8	95	0.00
28 T	Bromochloromethane	50.000	47.780	4.4	100	0.00
29 T	Tetrahydrofuran	250.000	251.809	-0.7	97	0.00
30 C	Chloroform	50.000	48.047	3.9#	95	0.00
31 T	Cyclohexane	50.000	45.242	9.5	91	0.00
32 T	1,1,1-Trichloroethane	50.000	48.726	2.5	93	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.540	0.9	102	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	98	0.00
35 S	Dibromofluoromethane	50.000	49.868	0.3	102	0.00
36 T	1,1-Dichloropropene	50.000	48.666	2.7	93	0.00
37 T	Ethyl Acetate	50.000	50.514	-1.0	97	0.00
38 T	Carbon Tetrachloride	50.000	48.162	3.7	93	0.00
39 T	Methylcyclohexane	50.000	47.748	4.5	90	0.00
40 TM	Benzene	50.000	48.756	2.5	95	0.00
41 T	Methacrylonitrile	50.000	51.279	-2.6	97	0.00
42 TM	1,2-Dichloroethane	50.000	49.058	1.9	96	0.00
43 T	Isopropyl Acetate	50.000	50.240	-0.5	95	0.00
44 TM	Trichloroethene	50.000	47.008	6.0	91	0.00
45 C	1,2-Dichloropropane	50.000	48.753	2.5#	95	0.00
46 T	Dibromomethane	50.000	49.983	0.0	96	0.00
47 T	Bromodichloromethane	50.000	48.979	2.0	94	0.00
48 T	Methyl methacrylate	50.000	49.674	0.7	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032413.D
 Acq On : 10 Nov 2025 17:44
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW111025

Quant Time: Nov 11 03:51:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 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	965.638	3.4	90	0.00
50 S	Toluene-d8	50.000	49.724	0.6	99	0.00
51 T	4-Methyl-2-Pentanone	250.000	255.521	-2.2	96	0.00
52 CM	Toluene	50.000	48.115	3.8#	93	0.00
53 T	t-1,3-Dichloropropene	50.000	49.622	0.8	94	0.00
54 T	cis-1,3-Dichloropropene	50.000	49.583	0.8	95	0.00
55 T	1,1,2-Trichloroethane	50.000	47.719	4.6	91	0.00
56 T	Ethyl methacrylate	50.000	51.114	-2.2	96	0.00
57 T	1,3-Dichloropropane	50.000	49.175	1.7	94	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	247.869	0.9	100	0.00
59 T	2-Hexanone	250.000	253.559	-1.4	96	0.00
60 T	Dibromochloromethane	50.000	48.876	2.2	95	0.00
61 T	1,2-Dibromoethane	50.000	49.350	1.3	96	0.00
62 S	4-Bromofluorobenzene	50.000	50.591	-1.2	104	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64 T	Tetrachloroethene	50.000	47.757	4.5	95	0.00
65 PM	Chlorobenzene	50.000	48.283	3.4	92	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	47.296	5.4	94	0.00
67 C	Ethyl Benzene	50.000	48.245	3.5#	93	0.00
68 T	m/p-Xylenes	100.000	98.139	1.9	94	0.00
69 T	o-Xylene	50.000	48.767	2.5	97	0.00
70 T	Styrene	50.000	50.136	-0.3	96	0.00
71 P	Bromoform	50.000	50.276	-0.6	99	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73 T	Isopropylbenzene	50.000	48.754	2.5	92	0.00
74 T	N-ethyl acetate	50.000	51.313	-2.6	95	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.435	1.1	94	0.00
76 T	1,2,3-Trichloropropane	50.000	45.507	9.0	94	0.00
77 T	Bromobenzene	50.000	49.852	0.3	93	0.00
78 T	n-propylbenzene	50.000	50.206	-0.4	95	0.00
79 T	2-Chlorotoluene	50.000	49.577	0.8	96	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.463	1.1	94	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	51.055	-2.1	95	0.00
82 T	4-Chlorotoluene	50.000	49.575	0.8	95	0.00
83 T	tert-Butylbenzene	50.000	49.947	0.1	93	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.793	0.4	95	0.00
85 T	sec-Butylbenzene	50.000	48.534	2.9	92	0.00
86 T	p-Isopropyltoluene	50.000	49.222	1.6	94	0.00
87 T	1,3-Dichlorobenzene	50.000	49.439	1.1	96	0.00
88 T	1,4-Dichlorobenzene	50.000	48.488	3.0	94	0.00
89 T	n-Butylbenzene	50.000	48.759	2.5	93	0.00
90 T	Hexachloroethane	50.000	48.875	2.3	93	0.00
91 T	1,2-Dichlorobenzene	50.000	48.405	3.2	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.882	0.2	95	0.00
93 T	1,2,4-Trichlorobenzene	50.000	49.877	0.2	94	0.00
94 T	Hexachlorobutadiene	50.000	51.267	-2.5	99	0.00
95 T	Naphthalene	50.000	50.016	-0.0	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVWVW111025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	49.427	1.1	97	0.00

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: REMI02

Lab Code: ACE

SDG No.: Q3586

Instrument ID: MSVOA_Y

Calibration Date(s): 11/04/2025 11/04/2025

Heated Purge: (Y/N) Y

Calibration Time(s): 09:19 11:27

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

LAB FILE ID:		RRF005 = VY023661.D		RRF010 = VY023662.D		RRF020 = VY023663.D			
		RRF050 = VY023664.D		RRF100 = VY023665.D		RRF150 = VY023666.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.391	0.380	0.373	0.275	0.284	0.266	0.328	17.9	
Chloromethane	0.537	0.510	0.489	0.413	0.424	0.382	0.459	13.4	
Vinyl Chloride	0.680	0.662	0.633	0.547	0.556	0.508	0.598	11.7	
Bromomethane	0.587	0.555	0.530	0.443	0.464	0.437	0.503	12.5	
Chloroethane	0.458	0.455	0.432	0.386	0.393	0.354	0.413	10.1	
Trichlorofluoromethane	0.937	0.908	0.887	0.780	0.782	0.756	0.842	9.2	
1,1,2-Trichlorotrifluoroethane	0.519	0.506	0.471	0.433	0.439	0.414	0.464	9.1	
1,1-Dichloroethene	0.476	0.462	0.462	0.421	0.441	0.419	0.447	5.2	
Acetone	0.115	0.106	0.115	0.094	0.105	0.102	0.106	7.4	
Carbon Disulfide	1.479	1.468	1.424	1.288	1.330	1.237	1.371	7.3	
Methyl tert-butyl Ether	0.980	0.945	1.059	1.008	1.132	1.091	1.036	6.8	
Methyl Acetate	0.221	0.206	0.292	0.210	0.256	0.218	0.234	14.4	
Methylene Chloride	0.652	0.532	0.515	0.460	0.476	0.436	0.512	15.1	
trans-1,2-Dichloroethene	0.512	0.515	0.519	0.487	0.510	0.479	0.504	3.3	
1,1-Dichloroethane	0.855	0.818	0.822	0.775	0.813	0.760	0.807	4.3	
Cyclohexane	0.789	0.719	0.692	0.662	0.695	0.660	0.703	6.8	
2-Butanone	0.128	0.113	0.130	0.111	0.127	0.127	0.123	6.8	
Carbon Tetrachloride	0.516	0.491	0.501	0.477	0.494	0.473	0.492	3.2	
cis-1,2-Dichloroethene	0.571	0.582	0.574	0.560	0.599	0.564	0.575	2.4	
Bromochloromethane	0.317	0.329	0.329	0.290	0.311	0.279	0.309	6.7	
Chloroform	0.957	0.934	0.919	0.863	0.898	0.833	0.901	5.1	
1,1,1-Trichloroethane	0.852	0.833	0.820	0.769	0.803	0.753	0.805	4.7	
Methylcyclohexane	0.499	0.495	0.536	0.539	0.569	0.563	0.534	5.8	
Benzene	1.323	1.322	1.355	1.287	1.345	1.265	1.316	2.6	
1,2-Dichloroethane	0.343	0.331	0.344	0.321	0.339	0.320	0.333	3.3	
Trichloroethene	0.398	0.383	0.387	0.366	0.377	0.358	0.378	3.8	
1,2-Dichloropropane	0.294	0.285	0.300	0.284	0.297	0.283	0.290	2.6	
Bromodichloromethane	0.456	0.442	0.471	0.444	0.469	0.441	0.454	3	
4-Methyl-2-Pentanone	0.143	0.136	0.170	0.158	0.181	0.180	0.162	11.8	
Toluene	0.761	0.813	0.874	0.854	0.898	0.842	0.840	5.7	

* 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>REMI02</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q3586</u>
Instrument ID: <u>MSVOA_Y</u>	Calibration Date(s): <u>11/04/2025</u> <u>11/04/2025</u>
Heated Purge: (Y/N) <u>Y</u>	Calibration Time(s): <u>09:19</u> <u>11:27</u>
GC Column: <u>RXI-624</u> ID: <u>0.25</u> (mm)	

LAB FILE ID: RRF005 = VY023661.D RRF010 = VY023662.D RRF020 = VY023663.D RRF050 = VY023664.D RRF100 = VY023665.D RRF150 = VY023666.D								
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.346	0.349	0.389	0.387	0.426	0.407	0.384	8.2
cis-1,3-Dichloropropene	0.419	0.434	0.475	0.463	0.495	0.474	0.460	6.1
1,1,2-Trichloroethane	0.244	0.230	0.250	0.234	0.249	0.236	0.241	3.5
2-Hexanone	0.101	0.099	0.127	0.115	0.132	0.133	0.118	12.9
Dibromochloromethane	0.325	0.314	0.342	0.326	0.347	0.329	0.330	3.7
1,2-Dibromoethane	0.221	0.208	0.240	0.222	0.238	0.226	0.226	5.3
Tetrachloroethene	0.554	0.549	0.545	0.512	0.500	0.462	0.520	6.9
Chlorobenzene	1.096	1.095	1.109	1.067	1.107	1.057	1.089	2
Ethyl Benzene	1.589	1.661	1.787	1.807	1.908	1.819	1.762	6.6
m/p-Xylenes	0.618	0.671	0.722	0.727	0.757	0.727	0.704	7.1
o-Xylene	0.562	0.600	0.659	0.674	0.717	0.691	0.651	9
Styrene	0.903	0.979	1.110	1.121	1.184	1.145	1.074	10.1
Bromoform	0.222	0.209	0.230	0.219	0.238	0.231	0.225	4.5
Isopropylbenzene	2.940	3.203	3.298	3.461	3.641	3.521	3.344	7.6
1,1,2,2-Tetrachloroethane	0.553	0.494	0.522	0.503	0.569	0.564	0.534	6
1,3-Dichlorobenzene	1.680	1.703	1.714	1.694	1.744	1.709	1.707	1.3
1,4-Dichlorobenzene	1.752	1.685	1.666	1.652	1.679	1.630	1.677	2.5
1,2-Dichlorobenzene	1.468	1.467	1.488	1.454	1.494	1.457	1.471	1.1
1,2-Dibromo-3-Chloropropane	0.085	0.076	0.083	0.076	0.086	0.086	0.082	5.7
1,2,4-Trichlorobenzene	0.738	0.747	0.835	0.853	0.933	0.944	0.842	10.5
1,2,3-Trichlorobenzene	0.619	0.611	0.698	0.717	0.782	0.791	0.703	10.9
1,2-Dichloroethane-d4	0.468	0.425	0.426	0.407	0.425	0.407	0.427	5.3
Dibromofluoromethane	0.312	0.316	0.312	0.310	0.318	0.308	0.312	1.2
Toluene-d8	1.109	1.148	1.155	1.189	1.224	1.159	1.164	3.3
4-Bromofluorobenzene	0.354	0.354	0.379	0.388	0.400	0.385	0.376	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.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y110425S.M
 Title : SW846 8260
 Last Update : Wed Nov 05 04:41:50 2025
 Response Via : Initial Calibration

Calibration Files

5 =VY023661.D 10 =VY023662.D 20 =VY023663.D 50 =VY023664.D 100 =VY023665.D 150 =VY023666.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.391	0.380	0.373	0.275	0.284	0.266	0.328	17.90
3) P	Chloromethane	0.537	0.510	0.489	0.413	0.424	0.382	0.459	13.38
4) C	Vinyl Chloride	0.680	0.662	0.633	0.547	0.556	0.508	0.598	11.68#
5) T	Bromomethane	0.587	0.555	0.530	0.443	0.464	0.437	0.503	12.53
6) T	Chloroethane	0.458	0.455	0.432	0.386	0.393	0.354	0.413	10.08
7) T	Trichlorofluor...	0.937	0.908	0.887	0.780	0.782	0.756	0.842	9.25
8) T	Diethyl Ether	0.232	0.228	0.232	0.212	0.230	0.219	0.226	3.58
9) T	1,1,2-Trichlor...	0.519	0.506	0.471	0.433	0.439	0.414	0.464	9.09
10) T	Methyl Iodide	0.491	0.546	0.558	0.573	0.585	0.533	0.548	6.10
11) T	Tert butyl alc...	0.035	0.027	0.027	0.023	0.026	0.027	0.028	15.05
12) CM	1,1-Dichloroet...	0.476	0.462	0.462	0.421	0.441	0.419	0.447	5.23#
13) T	Acrolein	0.041	0.036	0.039	0.030	0.034	0.033	0.035	12.04
14) T	Allyl chloride	0.530	0.534	0.549	0.527	0.577	0.545	0.544	3.38
15) T	Acrylonitrile	0.087	0.079	0.090	0.081	0.092	0.089	0.086	5.76
16) T	Acetone	0.115	0.106	0.115	0.094	0.105	0.102	0.106	7.41
17) T	Carbon Disulfide	1.479	1.468	1.424	1.288	1.330	1.237	1.371	7.32
18) T	Methyl Acetate	0.221	0.206	0.292	0.210	0.256	0.218	0.234	14.40
19) T	Methyl tert-bu...	0.980	0.945	1.059	1.008	1.132	1.091	1.036	6.81
20) T	Methylene Chlo...	0.652	0.532	0.515	0.460	0.476	0.436	0.512	15.09
21) T	trans-1,2-Dich...	0.512	0.515	0.519	0.487	0.510	0.479	0.504	3.29
22) T	Diisopropyl ether	1.097	1.167	1.263	1.222	1.305	1.215	1.212	6.04
23) T	Vinyl Acetate	0.585	0.589	0.631	0.652	0.716	0.706	0.647	8.69
24) P	1,1-Dichloroet...	0.855	0.818	0.822	0.775	0.813	0.760	0.807	4.27
25) T	2-Butanone	0.128	0.113	0.130	0.111	0.127	0.127	0.123	6.79
26) T	2,2-Dichloropr...	0.799	0.758	0.742	0.709	0.739	0.708	0.742	4.56
27) T	cis-1,2-Dichlo...	0.571	0.582	0.574	0.560	0.599	0.564	0.575	2.42
28) T	Bromochloromet...	0.317	0.329	0.329	0.290	0.311	0.279	0.309	6.68
29) T	Tetrahydrofuran	0.061	0.059	0.068	0.062	0.072	0.070	0.065	8.58
30) C	Chloroform	0.957	0.934	0.919	0.863	0.898	0.833	0.901	5.14#
31) T	Cyclohexane	0.789	0.719	0.692	0.662	0.695	0.660	0.703	6.77
32) T	1,1,1-Trichlor...	0.852	0.833	0.820	0.769	0.803	0.753	0.805	4.72
33) S	1,2-Dichloroet...	0.468	0.425	0.426	0.407	0.425	0.407	0.427	5.27
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.312	0.316	0.312	0.310	0.318	0.308	0.312	1.23
36) T	1,1-Dichloropr...	0.426	0.416	0.427	0.409	0.422	0.405	0.418	2.15
37) T	Ethyl Acetate	0.158	0.151	0.161	0.155	0.173	0.172	0.162	5.64
38) T	Carbon Tetrach...	0.516	0.491	0.501	0.477	0.494	0.473	0.492	3.21
39) T	Methylcyclohexane	0.499	0.495	0.536	0.539	0.569	0.563	0.534	5.79
40) TM	Benzene	1.323	1.322	1.355	1.287	1.345	1.265	1.316	2.60
41) T	Methacrylonitrile	0.083	0.079	0.086	0.084	0.098	0.100	0.088	9.67
42) TM	1,2-Dichloroet...	0.343	0.331	0.344	0.321	0.339	0.320	0.333	3.29
43) T	Isopropyl Acetate	0.280	0.267	0.306	0.295	0.336	0.338	0.304	9.59
44) TM	Trichloroethene	0.398	0.383	0.387	0.366	0.377	0.358	0.378	3.81
45) C	1,2-Dichloropr...	0.294	0.285	0.300	0.284	0.297	0.283	0.290	2.56#
46) T	Dibromomethane	0.183	0.172	0.191	0.173	0.185	0.176	0.180	4.19
47) T	Bromodichlorom...	0.456	0.442	0.471	0.444	0.469	0.441	0.454	3.01
48) T	Methyl methacr...	0.119	0.117	0.146	0.146	0.165	0.169	0.143	15.27
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	8.93
50) S	Toluene-d8	1.109	1.148	1.155	1.189	1.224	1.159	1.164	3.34
51) T	4-Methyl-2-Pen...	0.143	0.136	0.170	0.158	0.181	0.180	0.162	11.80
52) CM	Toluene	0.761	0.813	0.874	0.854	0.898	0.842	0.840	5.74#
53) T	t-1,3-Dichloro...	0.346	0.349	0.389	0.387	0.426	0.407	0.384	8.18
54) T	cis-1,3-Dichlo...	0.419	0.434	0.475	0.463	0.495	0.474	0.460	6.13
55) T	1,1,2-Trichlor...	0.244	0.230	0.250	0.234	0.249	0.236	0.241	3.46
56) T	Ethyl methacry...	0.208	0.204	0.261	0.276	0.318	0.323	0.265	19.45

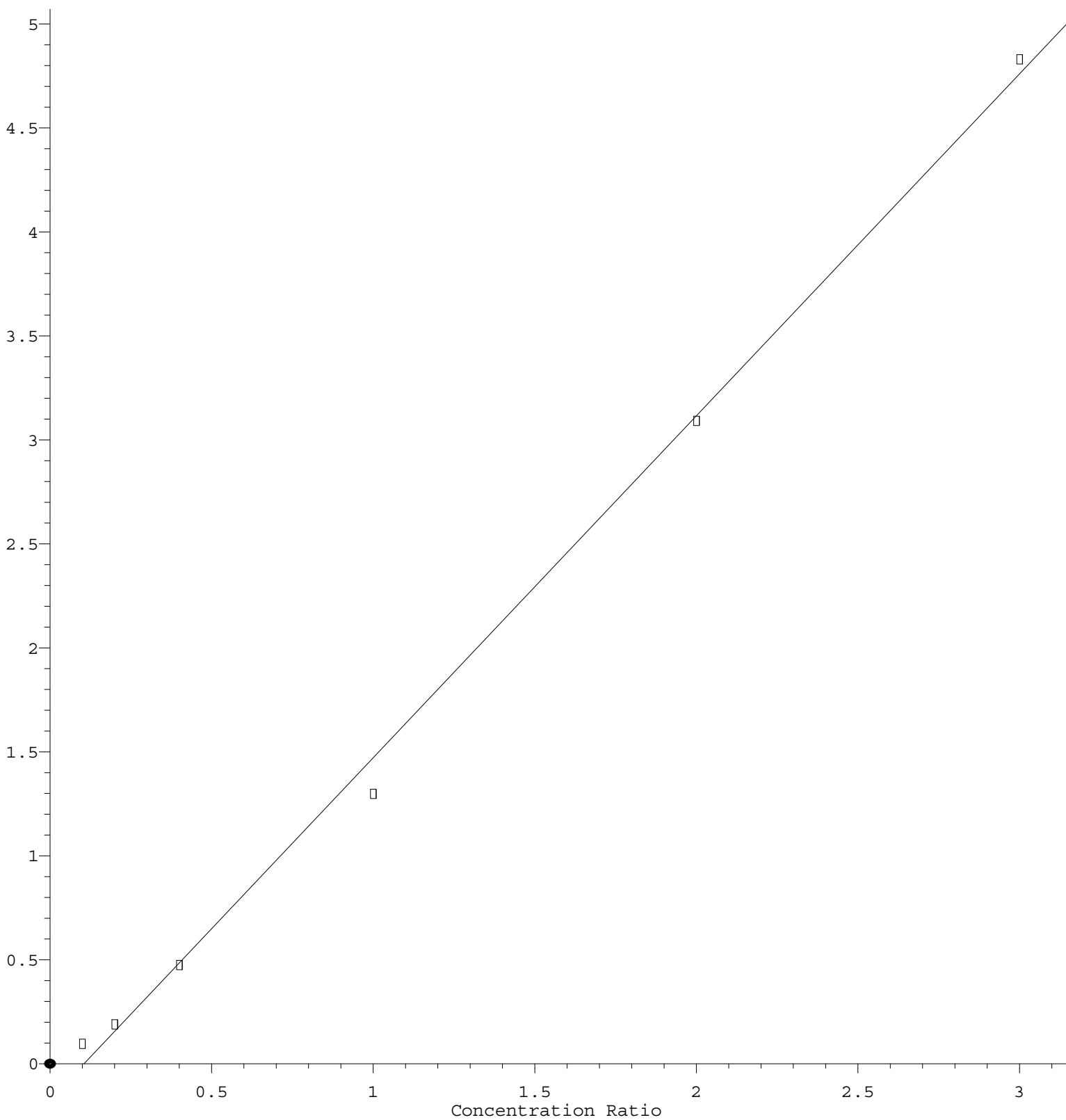
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y110425S.M

57)	T	1,3-Dichloropr...	0.375	0.363	0.401	0.376	0.399	0.376	0.381	3.94
58)	T	2-Chloroethyl ...	0.094	0.097	0.119	0.127	0.146	0.146	0.122	18.71
59)	T	2-Hexanone	0.101	0.099	0.127	0.114	0.132	0.133	0.118	12.88
60)	T	Dibromochlorom...	0.325	0.314	0.342	0.326	0.347	0.329	0.330	3.67
61)	T	1,2-Dibromoethane	0.221	0.208	0.240	0.222	0.238	0.226	0.226	5.28
62)	S	4-Bromofluorob...	0.354	0.354	0.379	0.388	0.400	0.385	0.376	5.04
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.554	0.549	0.545	0.512	0.500	0.462	0.520	6.87
65)	PM	Chlorobenzene	1.096	1.095	1.109	1.067	1.107	1.057	1.088	1.97
66)	T	1,1,1,2-Tetrac...	0.396	0.380	0.387	0.377	0.394	0.376	0.385	2.25
67)	C	Ethyl Benzene	1.589	1.661	1.787	1.807	1.908	1.819	1.762	6.59#
68)	T	m/p-Xylenes	0.618	0.671	0.722	0.727	0.757	0.727	0.704	7.13
69)	T	o-Xylene	0.562	0.600	0.659	0.674	0.717	0.691	0.651	9.02
70)	T	Styrene	0.903	0.979	1.110	1.121	1.184	1.145	1.074	10.12
71)	P	Bromoform	0.222	0.209	0.230	0.219	0.238	0.231	0.225	4.47
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	2.940	3.203	3.298	3.461	3.641	3.521	3.344	7.55
74)	T	N-amyl acetate	0.455	0.481	0.523	0.577	0.663	0.698	0.566	17.36
75)	P	1,1,2,2-Tetrac...	0.553	0.494	0.522	0.503	0.569	0.564	0.534	6.05
76)	T	1,2,3-Trichlor...	0.403	0.453	0.410	0.373	0.397	0.391	0.405	6.62
77)	T	Bromobenzene	0.837	0.855	0.850	0.862	0.915	0.885	0.867	3.25
78)	T	n-propylbenzene	3.526	3.781	3.927	4.085	4.205	4.076	3.933	6.30
79)	T	2-Chlorotoluene	2.100	2.244	2.288	2.325	2.407	2.332	2.283	4.58
80)	T	1,3,5-Trimethy...	2.330	2.604	2.734	2.834	2.943	2.857	2.717	8.18
81)	T	trans-1,4-Dich...	0.173	0.169	0.172	0.172	0.192	0.196	0.179	6.63
82)	T	4-Chlorotoluene	2.193	2.325	2.382	2.387	2.455	2.383	2.354	3.79
83)	T	tert-Butylbenzene	2.172	2.326	2.402	2.558	2.717	2.674	2.475	8.56
84)	T	1,2,4-Trimethy...	2.248	2.601	2.701	2.819	2.931	2.846	2.691	9.13
85)	T	sec-Butylbenzene	3.176	3.473	3.539	3.675	3.830	3.722	3.569	6.47
86)	T	p-Isopropyltol...	2.577	2.830	3.007	3.166	3.291	3.258	3.022	9.17
87)	T	1,3-Dichlorobe...	1.680	1.703	1.714	1.694	1.744	1.709	1.707	1.28
88)	T	1,4-Dichlorobe...	1.752	1.685	1.666	1.652	1.679	1.630	1.677	2.49
89)	T	n-Butylbenzene	2.293	2.441	2.557	2.752	2.877	2.844	2.627	8.95
90)	T	Hexachloroethane	0.657	0.656	0.632	0.639	0.664	0.648	0.649	1.85
91)	T	1,2-Dichlorobe...	1.468	1.467	1.488	1.454	1.494	1.457	1.471	1.12
92)	T	1,2-Dibromo-3-...	0.085	0.076	0.083	0.076	0.086	0.086	0.082	5.72
93)	T	1,2,4-Trichlor...	0.738	0.747	0.835	0.853	0.933	0.944	0.842	10.46
94)	T	Hexachlorobuta...	0.561	0.551	0.538	0.552	0.560	0.546	0.551	1.58
95)	T	Naphthalene	0.956	0.948	1.187	1.298	1.546	1.610	1.257	22.51
96)	T	1,2,3-Trichlor...	0.619	0.611	0.698	0.717	0.782	0.791	0.703	10.93

(#) = Out of Range

Naphthalene

Response Ratio



$$\text{Response} = 1.644\text{e}+000 * \text{Amt} - 1.730\text{e}-001$$

Coef of Det (r^2) = 0.997394 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y110425S.M

Calibration Table Last Updated: Wed Nov 05 04:41:50 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023661.D
 Acq On : 04 Nov 2025 09:19
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:24:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:24:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	510707	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	780075	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	667589	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	326953	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	23922	5.491	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	10.980%#		
35) Dibromofluoromethane	7.640	113	24311	4.987	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	9.980%#		
50) Toluene-d8	10.109	98	86542	4.766	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	9.540%#		
62) 4-Bromofluorobenzene	12.402	95	27590	4.698	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	9.400%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	19990	5.963	ug/l	97
3) Chloromethane	2.074	50	27439	5.849	ug/l	91
4) Vinyl Chloride	2.208	62	34731	5.689	ug/l	99
5) Bromomethane	2.599	94	29962	5.835	ug/l	98
6) Chloroethane	2.739	64	23388	5.543	ug/l	97
7) Trichlorofluoromethane	3.062	101	47868	5.568	ug/l	95
8) Diethyl Ether	3.464	74	11851	5.140	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.824	101	26531	5.601	ug/l	99
10) Methyl Iodide	4.007	142	25054	4.479	ug/l	99
11) Tert butyl alcohol	4.860	59	9027	32.136	ug/l #	74
12) 1,1-Dichloroethene	3.800	96	24289	5.323	ug/l	89
13) Acrolein	3.653	56	10439	28.913	ug/l	98
14) Allyl chloride	4.385	41	27044	4.869	ug/l	99
15) Acrylonitrile	5.068	53	22096	25.078	ug/l	100
16) Acetone	3.867	43	29389	27.140	ug/l	89
17) Carbon Disulfide	4.110	76	75554	5.395	ug/l	96
18) Methyl Acetate	4.391	43	11286	4.725	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	50027	4.728	ug/l	97
20) Methylene Chloride	4.623	84	33305	6.371	ug/l	93
21) trans-1,2-Dichloroethene	5.116	96	26157	5.084	ug/l	96
22) Diisopropyl ether	6.025	45	56019	4.527	ug/l	95
23) Vinyl Acetate	5.970	43	149457	22.631	ug/l	97
24) 1,1-Dichloroethane	5.915	63	43679	5.298	ug/l	99
25) 2-Butanone	6.897	43	32720	26.134	ug/l	93
26) 2,2-Dichloropropane	6.884	77	40803	5.380	ug/l	98
27) cis-1,2-Dichloroethene	6.897	96	29179	4.966	ug/l	98
28) Bromochloromethane	7.250	49	16184	5.127	ug/l	96
29) Tetrahydrofuran	7.275	42	15473	23.206	ug/l	96
30) Chloroform	7.427	83	48896	5.316	ug/l	93
31) Cyclohexane	7.707	56	40292	5.612	ug/l #	75
32) 1,1,1-Trichloroethane	7.616	97	43512	5.292	ug/l	100
36) 1,1-Dichloropropene	7.835	75	33214	5.099	ug/l	99
37) Ethyl Acetate	6.994	43	12363	4.902	ug/l	96
38) Carbon Tetrachloride	7.823	117	40263	5.246	ug/l	99
39) Methylcyclohexane	9.110	83	38956	4.680	ug/l	95
40) Benzene	8.079	78	103199	5.026	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023661.D
 Acq On : 04 Nov 2025 09:19
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:24:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:24:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	6457	4.800	ug/l #	72
42) 1,2-Dichloroethane	8.159	62	26761	5.151	ug/l	99
43) Isopropyl Acetate	8.195	43	21814	4.604	ug/l	96
44) Trichloroethene	8.866	130	31010	5.258	ug/l	88
45) 1,2-Dichloropropane	9.140	63	22961	5.067	ug/l	93
46) Dibromomethane	9.238	93	14269	5.082	ug/l	99
47) Bromodichloromethane	9.427	83	35539	5.020	ug/l	95
48) Methyl methacrylate	9.225	41	9263	4.138	ug/l	94
49) 1,4-Dioxane	9.225	88	2794	97.232	ug/l #	87
51) 4-Methyl-2-Pentanone	10.000	43	55920	22.192	ug/l	96
52) Toluene	10.170	92	59389	4.530	ug/l	95
53) t-1,3-Dichloropropene	10.396	75	27017	4.510	ug/l	93
54) cis-1,3-Dichloropropene	9.859	75	32719	4.559	ug/l	96
55) 1,1,2-Trichloroethane	10.573	97	19045	5.075	ug/l	98
56) Ethyl methacrylate	10.439	69	16257	3.932	ug/l	95
57) 1,3-Dichloropropane	10.719	76	29234	4.912	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	36528	19.254	ug/l	100
59) 2-Hexanone	10.762	43	39473	21.472	ug/l	95
60) Dibromochloromethane	10.908	129	25371	4.921	ug/l	98
61) 1,2-Dibromoethane	11.018	107	17256	4.900	ug/l	99
64) Tetrachloroethene	10.646	164	36969	5.320	ug/l	98
65) Chlorobenzene	11.438	112	73160	5.034	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.518	131	26429	5.143	ug/l	99
67) Ethyl Benzene	11.518	91	106047	4.508	ug/l	99
68) m/p-Xylenes	11.627	106	82562	8.785	ug/l	99
69) o-Xylene	11.951	106	37501	4.317	ug/l	98
70) Styrene	11.969	104	60258	4.204	ug/l	99
71) Bromoform	12.133	173	14838	4.944	ug/l #	99
73) Isopropylbenzene	12.255	105	96120	4.396	ug/l	99
74) N-amyl acetate	12.066	43	14878	4.019	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.505	83	18096	5.181	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	13170m	4.977	ug/l	
77) Bromobenzene	12.530	156	27375	4.826	ug/l	96
78) n-propylbenzene	12.591	91	115286	4.482	ug/l	99
79) 2-Chlorotoluene	12.676	91	68648	4.599	ug/l	96
80) 1,3,5-Trimethylbenzene	12.737	105	76176	4.288	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	5654	4.829	ug/l	95
82) 4-Chlorotoluene	12.774	91	71686	4.657	ug/l	98
83) tert-Butylbenzene	12.993	119	70998	4.388	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	73513	4.177	ug/l	99
85) sec-Butylbenzene	13.176	105	103852	4.450	ug/l	99
86) p-Isopropyltoluene	13.292	119	84269	4.265	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	54916	4.919	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	57281	5.223	ug/l	95
89) n-Butylbenzene	13.615	91	74974	4.364	ug/l	99
90) Hexachloroethane	13.877	117	21483	5.060	ug/l	99
91) 1,2-Dichlorobenzene	13.658	146	47997	4.989	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	2763	5.138	ug/l	90
93) 1,2,4-Trichlorobenzene	14.919	180	24126	4.384	ug/l	98
94) Hexachlorobutadiene	15.023	225	18339	5.086	ug/l	98
95) Naphthalene	15.145	128	31252	8.168	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	20253	4.405	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
Data File : VY023661.D
Acq On : 04 Nov 2025 09:19
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/05/2025
Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:24:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:24:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023662.D
 Acq On : 04 Nov 2025 09:42
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:26:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:24:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	529353	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	803774	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.413	117	690563	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	340245	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	45020	9.970	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	19.940%#		
35) Dibromofluoromethane	7.640	113	50749	10.103	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	20.200%#		
50) Toluene-d8	10.109	98	184529	9.862	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	19.720%#		
62) 4-Bromofluorobenzene	12.401	95	56847	9.395	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	18.780%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.866	85	40187	11.565	ug/l	97
3) Chloromethane	2.074	50	54024	11.110	ug/l	100
4) Vinyl Chloride	2.208	62	70038	11.069	ug/l	98
5) Bromomethane	2.598	94	58773	11.043	ug/l	94
6) Chloroethane	2.738	64	48132	11.006	ug/l	100
7) Trichlorofluoromethane	3.055	101	96161	10.791	ug/l	100
8) Diethyl Ether	3.458	74	24107	10.088	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.817	101	53535	10.904	ug/l	99
10) Methyl Iodide	4.006	142	57829	9.974	ug/l	99
11) Tert butyl alcohol	4.866	59	14032	48.194	ug/l	97
12) 1,1-Dichloroethene	3.793	96	48878	10.335	ug/l	97
13) Acrolein	3.653	56	19002	50.776	ug/l	97
14) Allyl chloride	4.390	41	56587	9.830	ug/l	99
15) Acrylonitrile	5.067	53	42033	46.026	ug/l	98
16) Acetone	3.872	43	55971	49.867	ug/l	99
17) Carbon Disulfide	4.110	76	155402	10.705	ug/l	100
18) Methyl Acetate	4.390	43	21794	8.803	ug/l	95
19) Methyl tert-butyl Ether	5.122	73	100086	9.126	ug/l	92
20) Methylene Chloride	4.622	84	56341	10.398	ug/l	95
21) trans-1,2-Dichloroethene	5.122	96	54511	10.222	ug/l	97
22) Diisopropyl ether	6.018	45	123533	9.630	ug/l #	90
23) Vinyl Acetate	5.963	43	311609	45.522	ug/l	98
24) 1,1-Dichloroethane	5.921	63	86555	10.129	ug/l	97
25) 2-Butanone	6.896	43	59816	46.094	ug/l	99
26) 2,2-Dichloropropane	6.890	77	80230	10.207	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	61638	10.120	ug/l	99
28) Bromochloromethane	7.250	49	34809	10.638	ug/l	94
29) Tetrahydrofuran	7.274	42	31053	44.932	ug/l	96
30) Chloroform	7.420	83	98898	10.373	ug/l	98
31) Cyclohexane	7.707	56	76145	10.232	ug/l #	89
32) 1,1,1-Trichloroethane	7.615	97	88141	10.343	ug/l	99
36) 1,1-Dichloropropene	7.841	75	66838	9.958	ug/l	100
37) Ethyl Acetate	6.987	43	24198	9.313	ug/l	98
38) Carbon Tetrachloride	7.817	117	78995	9.989	ug/l	97
39) Methylcyclohexane	9.109	83	79613	9.283	ug/l	95
40) Benzene	8.079	78	212456	10.042	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023662.D
 Acq On : 04 Nov 2025 09:42
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:26:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:24:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	12643m	9.122	ug/l	
42) 1,2-Dichloroethane	8.158	62	53223	9.943	ug/l	98
43) Isopropyl Acetate	8.201	43	42964	8.800	ug/l	97
44) Trichloroethene	8.865	130	61596	10.136	ug/l	100
45) 1,2-Dichloropropane	9.139	63	45808	9.810	ug/l	95
46) Dibromomethane	9.231	93	27595	9.538	ug/l	99
47) Bromodichloromethane	9.426	83	71048	9.740	ug/l	96
48) Methyl methacrylate	9.225	41	18849	8.172	ug/l	95
49) 1,4-Dioxane	9.231	88	5062	170.965	ug/l	94
51) 4-Methyl-2-Pentanone	9.999	43	109221	42.067	ug/l	98
52) Toluene	10.170	92	130648	9.672	ug/l	99
53) t-1,3-Dichloropropene	10.395	75	56121	9.093	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	69773	9.436	ug/l	98
55) 1,1,2-Trichloroethane	10.572	97	37044	9.581	ug/l	94
56) Ethyl methacrylate	10.438	69	32716	7.680	ug/l	97
57) 1,3-Dichloropropane	10.718	76	58301	9.506	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	78241	40.025	ug/l	99
59) 2-Hexanone	10.761	43	79804	42.130	ug/l	95
60) Dibromochloromethane	10.914	129	50465	9.499	ug/l	100
61) 1,2-Dibromoethane	11.017	107	33380	9.199	ug/l	97
64) Tetrachloroethene	10.645	164	75769	10.541	ug/l	98
65) Chlorobenzene	11.444	112	151288	10.063	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.517	131	52459	9.868	ug/l	97
67) Ethyl Benzene	11.517	91	229438	9.430	ug/l	100
68) m/p-Xylenes	11.627	106	185401	19.072	ug/l	100
69) o-Xylene	11.956	106	82846	9.219	ug/l	99
70) Styrene	11.968	104	135208	9.119	ug/l	99
71) Bromoform	12.133	173	28921	9.315	ug/l #	99
73) Isopropylbenzene	12.255	105	217972	9.579	ug/l	99
74) N-amyl acetate	12.066	43	32719	8.492	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	33622	9.251	ug/l	96
76) 1,2,3-Trichloropropane	12.553	75	30827m	11.195	ug/l	
77) Bromobenzene	12.529	156	58175	9.855	ug/l	99
78) n-propylbenzene	12.596	91	257281	9.612	ug/l	100
79) 2-Chlorotoluene	12.675	91	152691	9.830	ug/l	99
80) 1,3,5-Trimethylbenzene	12.736	105	177222	9.585	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	11473	9.416	ug/l	95
82) 4-Chlorotoluene	12.773	91	158206	9.876	ug/l	100
83) tert-Butylbenzene	12.999	119	158294	9.400	ug/l	100
84) 1,2,4-Trimethylbenzene	13.041	105	177023	9.667	ug/l	100
85) sec-Butylbenzene	13.175	105	236332	9.730	ug/l	100
86) p-Isopropyltoluene	13.291	119	192560	9.365	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	115903	9.976	ug/l	100
88) 1,4-Dichlorobenzene	13.364	146	114652	10.046	ug/l	96
89) n-Butylbenzene	13.614	91	166099	9.290	ug/l	99
90) Hexachloroethane	13.876	117	44630	10.101	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	99858	9.974	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5202	9.296	ug/l	95
93) 1,2,4-Trichlorobenzene	14.919	180	50808	8.872	ug/l	98
94) Hexachlorobutadiene	15.023	225	37521	9.999	ug/l	99
95) Naphthalene	15.144	128	64530	11.029	ug/l	99
96) 1,2,3-Trichlorobenzene	15.327	180	41611	8.697	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
Data File : VY023662.D
Acq On : 04 Nov 2025 09:42
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/05/2025
Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:26:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:24:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023663.D
 Acq On : 04 Nov 2025 10:19
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:27:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:24:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	545914	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	804973	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	707291	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	367397	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	93111	19.995	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	40.000%#		
35) Dibromofluoromethane	7.634	113	100472	19.972	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	39.940%#		
50) Toluene-d8	10.109	98	371763	19.839	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	39.680%#		
62) 4-Bromofluorobenzene	12.402	95	121943	20.122	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	40.240%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.867	85	81455	22.731	ug/l	100
3) Chloromethane	2.074	50	106778	21.293	ug/l	100
4) Vinyl Chloride	2.208	62	138125	21.168	ug/l	98
5) Bromomethane	2.592	94	115694	21.078	ug/l	98
6) Chloroethane	2.739	64	94359	20.922	ug/l	98
7) Trichlorofluoromethane	3.056	101	193612	21.067	ug/l	96
8) Diethyl Ether	3.452	74	50730	20.585	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.818	101	102772	20.297	ug/l	99
10) Methyl Iodide	4.007	142	121925	20.392	ug/l	100
11) Tert butyl alcohol	4.854	59	29518	98.306	ug/l	99
12) 1,1-Dichloroethene	3.787	96	100782	20.662	ug/l	98
13) Acrolein	3.653	56	42967	111.331	ug/l	99
14) Allyl chloride	4.385	41	119977	20.209	ug/l	100
15) Acrylonitrile	5.061	53	97947	103.998	ug/l	100
16) Acetone	3.873	43	125071	108.051	ug/l	96
17) Carbon Disulfide	4.104	76	310907	20.768	ug/l	100
18) Methyl Acetate	4.385	43	63810	24.993	ug/l	97
19) Methyl tert-butyl Ether	5.122	73	231292	20.450	ug/l	97
20) Methylene Chloride	4.616	84	112357	20.107	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	113402	20.620	ug/l	98
22) Diisopropyl ether	6.019	45	275900	20.856	ug/l	95
23) Vinyl Acetate	5.964	43	688746	97.564	ug/l	99
24) 1,1-Dichloroethane	5.915	63	179473	20.365	ug/l	99
25) 2-Butanone	6.896	43	141827	105.975	ug/l	97
26) 2,2-Dichloropropane	6.884	77	162022	19.986	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	125435	19.971	ug/l	99
28) Bromochloromethane	7.244	49	71844	21.291	ug/l	100
29) Tetrahydrofuran	7.262	42	74415	104.407	ug/l	97
30) Chloroform	7.421	83	200613	20.402	ug/l	98
31) Cyclohexane	7.707	56	151188	19.699	ug/l	89
32) 1,1,1-Trichloroethane	7.616	97	179118	20.382	ug/l	99
36) 1,1-Dichloropropene	7.841	75	137450	20.447	ug/l	99
37) Ethyl Acetate	6.988	43	51827	19.916	ug/l	98
38) Carbon Tetrachloride	7.817	117	161201	20.353	ug/l	99
39) Methylcyclohexane	9.109	83	172623	20.098	ug/l	98
40) Benzene	8.079	78	436191	20.586	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023663.D
 Acq On : 04 Nov 2025 10:19
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:27:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:24:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	27760m	19.999	ug/l	
42) 1,2-Dichloroethane	8.158	62	110796	20.669	ug/l	100
43) Isopropyl Acetate	8.201	43	98512	20.148	ug/l	99
44) Trichloroethene	8.866	130	124567	20.468	ug/l	96
45) 1,2-Dichloropropane	9.140	63	96481	20.632	ug/l	98
46) Dibromomethane	9.231	93	61391	21.188	ug/l	97
47) Bromodichloromethane	9.426	83	151710	20.767	ug/l	99
48) Methyl methacrylate	9.225	41	46988	20.341	ug/l	98
49) 1,4-Dioxane	9.231	88	11983	404.113	ug/l	97
51) 4-Methyl-2-Pentanone	9.999	43	273875	105.327	ug/l	99
52) Toluene	10.170	92	281364	20.799	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	125239	20.261	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	152830	20.637	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	80390	20.761	ug/l	96
56) Ethyl methacrylate	10.438	69	83993	19.687	ug/l	98
57) 1,3-Dichloropropane	10.719	76	128976	20.999	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	192206	98.178	ug/l	100
59) 2-Hexanone	10.762	43	203840	107.451	ug/l	99
60) Dibromochloromethane	10.914	129	110009	20.677	ug/l	98
61) 1,2-Dibromoethane	11.018	107	77174	21.237	ug/l	97
64) Tetrachloroethene	10.646	164	154270	20.955	ug/l	98
65) Chlorobenzene	11.444	112	313776	20.378	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	109560	20.122	ug/l	98
67) Ethyl Benzene	11.518	91	505466	20.283	ug/l	98
68) m/p-Xylenes	11.627	106	408699	41.048	ug/l	97
69) o-Xylene	11.956	106	186475	20.260	ug/l	100
70) Styrene	11.969	104	313946	20.674	ug/l	100
71) Bromoform	12.133	173	64954	20.426	ug/l #	98
73) Isopropylbenzene	12.255	105	484626	19.723	ug/l	99
74) N-amyl acetate	12.072	43	76905	18.486	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	76650	19.531	ug/l	97
76) 1,2,3-Trichloropropane	12.554	75	60277m	20.272	ug/l	
77) Bromobenzene	12.530	156	124926	19.600	ug/l	97
78) n-propylbenzene	12.597	91	577151	19.968	ug/l	99
79) 2-Chlorotoluene	12.676	91	336249	20.048	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	401810	20.126	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	25299	19.229	ug/l	98
82) 4-Chlorotoluene	12.780	91	350104	20.241	ug/l	100
83) tert-Butylbenzene	12.999	119	352929	19.409	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	397002	20.077	ug/l	100
85) sec-Butylbenzene	13.176	105	520106	19.831	ug/l	100
86) p-Isopropyltoluene	13.292	119	441869	19.902	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	251903	20.080	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	244807	19.866	ug/l	99
89) n-Butylbenzene	13.615	91	375842	19.467	ug/l	100
90) Hexachloroethane	13.877	117	92928	19.477	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	218655	20.225	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	12260	20.289	ug/l	95
93) 1,2,4-Trichlorobenzene	14.919	180	122756	19.851	ug/l	99
94) Hexachlorobutadiene	15.023	225	79039	19.507	ug/l	99
95) Naphthalene	15.145	128	174378	19.694	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	102582	19.855	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
Data File : VY023663.D
Acq On : 04 Nov 2025 10:19
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/05/2025
Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:27:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:24:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023664.D
 Acq On : 04 Nov 2025 10:42
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:28:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:24:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	575867	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	844654	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	748313	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	378927	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	234526	47.743	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	95.480%		
35) Dibromofluoromethane	7.634	113	261509	49.542	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	99.080%		
50) Toluene-d8	10.109	98	1004143	51.068	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	102.140%		
62) 4-Bromofluorobenzene	12.401	95	327509	51.505	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	103.000%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	158310	41.880	ug/l	100
3) Chloromethane	2.074	50	237663	44.928	ug/l	100
4) Vinyl Chloride	2.208	62	315113	45.779	ug/l	100
5) Bromomethane	2.598	94	255339	44.099	ug/l	100
6) Chloroethane	2.739	64	222257	46.718	ug/l	100
7) Trichlorofluoromethane	3.062	101	448928	46.308	ug/l	100
8) Diethyl Ether	3.458	74	122314	47.049	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	249353	46.685	ug/l	100
10) Methyl Iodide	4.007	142	329865	52.300	ug/l	100
11) Tert butyl alcohol	4.866	59	65929	208.147	ug/l	100
12) 1,1-Dichloroethene	3.793	96	242599	47.151	ug/l	100
13) Acrolein	3.653	56	85009	208.809	ug/l	100
14) Allyl chloride	4.385	41	303471	48.458	ug/l	100
15) Acrylonitrile	5.061	53	234014	235.546	ug/l	100
16) Acetone	3.866	43	272077	222.826	ug/l	100
17) Carbon Disulfide	4.110	76	741781	46.973	ug/l	100
18) Methyl Acetate	4.385	43	121078	44.957	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	580730	48.676	ug/l	100
20) Methylene Chloride	4.616	84	264862	44.934	ug/l	100
21) trans-1,2-Dichloroethene	5.122	96	280571	48.364	ug/l	100
22) Diisopropyl ether	6.025	45	703596	50.420	ug/l	100
23) Vinyl Acetate	5.964	43	1877953	252.183	ug/l	100
24) 1,1-Dichloroethane	5.915	63	446287	48.007	ug/l	100
25) 2-Butanone	6.896	43	319404	226.250	ug/l	100
26) 2,2-Dichloropropane	6.890	77	408039	47.716	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	322689	48.703	ug/l	100
28) Bromochloromethane	7.244	49	167148	46.958	ug/l	100
29) Tetrahydrofuran	7.262	42	178179	236.990	ug/l	100
30) Chloroform	7.421	83	497055	47.921	ug/l	100
31) Cyclohexane	7.701	56	381239	47.090	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	442659	47.750	ug/l	100
36) 1,1-Dichloropropene	7.835	75	345431	48.973	ug/l	100
37) Ethyl Acetate	6.982	43	130827	47.912	ug/l	100
38) Carbon Tetrachloride	7.817	117	402944	48.486	ug/l	100
39) Methylcyclohexane	9.109	83	454885	50.473	ug/l	100
40) Benzene	8.079	78	1087048	48.893	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023664.D
 Acq On : 04 Nov 2025 10:42
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:28:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:24:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	71198	48.884	ug/l	100
42) 1,2-Dichloroethane	8.158	62	270723	48.130	ug/l	100
43) Isopropyl Acetate	8.195	43	249080	48.549	ug/l	100
44) Trichloroethene	8.866	130	308925	48.377	ug/l	100
45) 1,2-Dichloropropane	9.140	63	239811	48.873	ug/l	100
46) Dibromomethane	9.231	93	146001	48.022	ug/l	100
47) Bromodichloromethane	9.420	83	374866	48.904	ug/l	100
48) Methyl methacrylate	9.219	41	122935	50.717	ug/l	100
49) 1,4-Dioxane	9.231	88	30413	977.461	ug/l	100
51) 4-Methyl-2-Pentanone	9.999	43	667795	244.757	ug/l	100
52) Toluene	10.170	92	721090	50.801	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	326566	50.350	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	391126	50.333	ug/l	100
55) 1,1,2-Trichloroethane	10.573	97	197468	48.601	ug/l	100
56) Ethyl methacrylate	10.438	69	233410	52.139	ug/l	100
57) 1,3-Dichloropropane	10.719	76	317296	49.234	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	538181	261.987	ug/l	100
59) 2-Hexanone	10.762	43	483563	242.927	ug/l	100
60) Dibromochloromethane	10.908	129	275217	49.299	ug/l	100
61) 1,2-Dibromoethane	11.011	107	187108	49.070	ug/l	100
64) Tetrachloroethene	10.646	164	383425	49.228	ug/l	100
65) Chlorobenzene	11.438	112	798384	49.008	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.517	131	282049	48.962	ug/l	100
67) Ethyl Benzene	11.517	91	1352193	51.285	ug/l	100
68) m/p-Xylenes	11.627	106	1088606	103.340	ug/l	100
69) o-Xylene	11.956	106	504648	51.824	ug/l	100
70) Styrene	11.969	104	838808	52.208	ug/l	100
71) Bromoform	12.133	173	163771	48.678	ug/l	100
73) Isopropylbenzene	12.255	105	1311582	51.752	ug/l	100
74) N-amyl acetate	12.066	43	218665	50.962	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.505	83	190486	47.061	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	141409m	46.111	ug/l	
77) Bromobenzene	12.530	156	326732	49.702	ug/l	100
78) n-propylbenzene	12.597	91	1548019	51.929	ug/l	100
79) 2-Chlorotoluene	12.676	91	881152	50.938	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	1073705	52.144	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	65310	48.129	ug/l	100
82) 4-Chlorotoluene	12.773	91	904469	50.699	ug/l	100
83) tert-Butylbenzene	12.993	119	969322	51.686	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	1068009	52.367	ug/l	100
85) sec-Butylbenzene	13.176	105	1392655	51.485	ug/l	100
86) p-Isopropyltoluene	13.292	119	1199869	52.399	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	641830	49.605	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	625847	49.241	ug/l	100
89) n-Butylbenzene	13.615	91	1042799	52.370	ug/l	100
90) Hexachloroethane	13.877	117	242026	49.183	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	550837	49.400	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	28889	46.355	ug/l	100
93) 1,2,4-Trichlorobenzene	14.919	180	323218	50.677	ug/l	100
94) Hexachlorobutadiene	15.023	225	209077	50.032	ug/l	100
95) Naphthalene	15.145	128	491886	44.734	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	271777	51.002	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
Data File : VY023664.D
Acq On : 04 Nov 2025 10:42
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/05/2025
Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:28:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:24:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

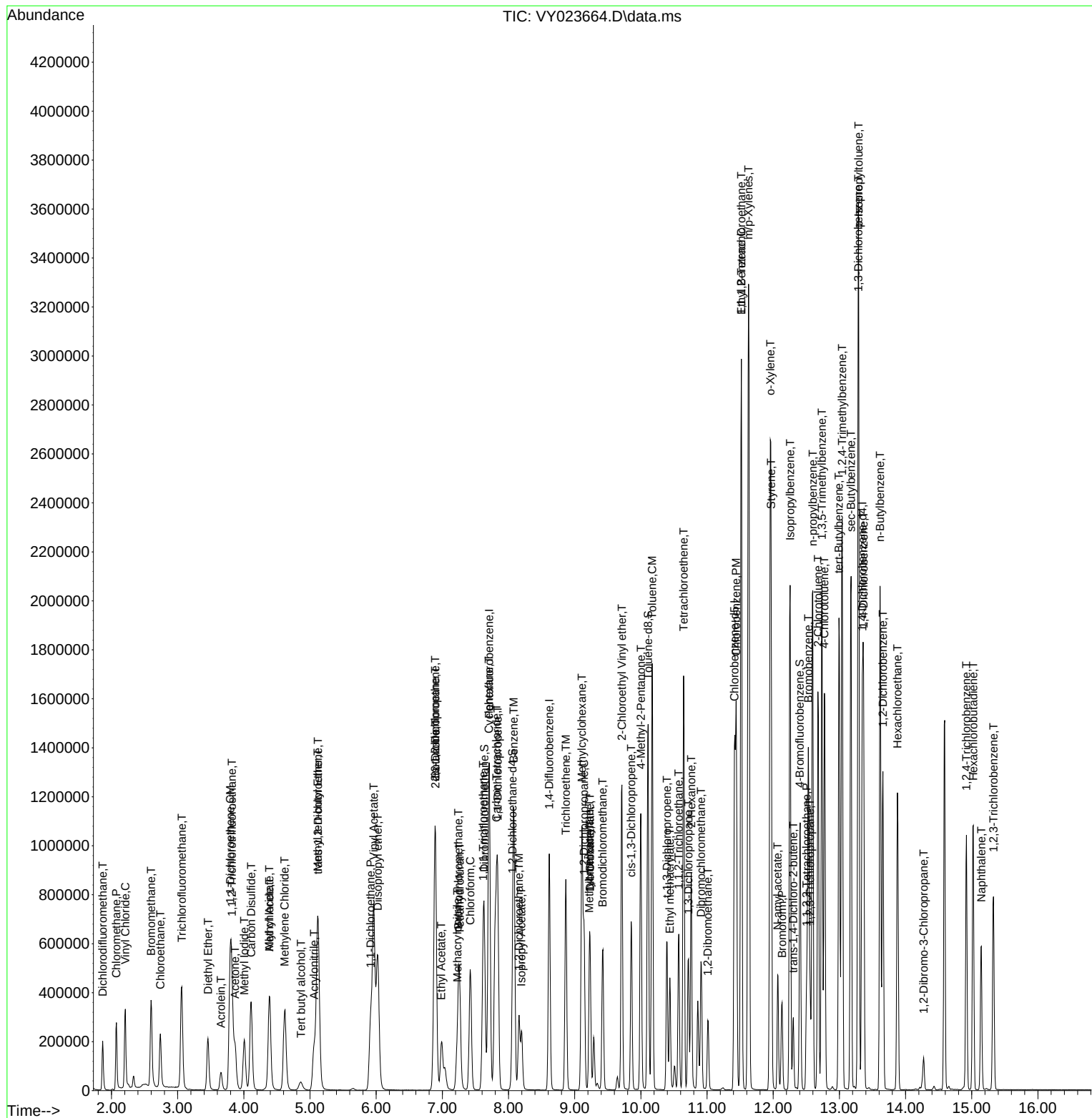
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023664.D
 Acq On : 04 Nov 2025 10:42
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Quant Time: Nov 05 04:28:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:24:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023665.D
 Acq On : 04 Nov 2025 11:05
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Quant Time: Nov 05 04:29:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:24:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	565663	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	831963	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	740642	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	370503	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	480881	99.661	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 199.320%#			
35) Dibromofluoromethane	7.634	113	529343	101.812	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 203.620%#			
50) Toluene-d8	10.109	98	2036678	105.160	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 210.320%#			
62) 4-Bromofluorobenzene	12.402	95	665813	106.305	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 212.600%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	321162	86.493	ug/l	99
3) Chloromethane	2.074	50	479848	92.348	ug/l	99
4) Vinyl Chloride	2.208	62	629525	93.106	ug/l	99
5) Bromomethane	2.592	94	525066	92.319	ug/l	98
6) Chloroethane	2.733	64	445045	95.235	ug/l	99
7) Trichlorofluoromethane	3.056	101	884872	92.924	ug/l	100
8) Diethyl Ether	3.458	74	260634	102.064	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	496959	94.721	ug/l	100
10) Methyl Iodide	4.007	142	661306	106.741	ug/l	99
11) Tert butyl alcohol	4.860	59	149691	481.121	ug/l	98
12) 1,1-Dichloroethene	3.793	96	499345	98.802	ug/l	100
13) Acrolein	3.653	56	191158	478.014	ug/l	99
14) Allyl chloride	4.385	41	652452	106.061	ug/l	99
15) Acrylonitrile	5.061	53	521023	533.895	ug/l	99
16) Acetone	3.866	43	591155	492.879	ug/l	100
17) Carbon Disulfide	4.110	76	1505201	97.036	ug/l	99
18) Methyl Acetate	4.385	43	289722	109.515	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	1280442	109.260	ug/l	100
20) Methylene Chloride	4.616	84	538051	92.927	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	576752	101.211	ug/l	97
22) Diisopropyl ether	6.025	45	1476751	107.734	ug/l	98
23) Vinyl Acetate	5.964	43	4052575	554.021	ug/l	99
24) 1,1-Dichloroethane	5.921	63	920205	100.771	ug/l	99
25) 2-Butanone	6.890	43	716857	516.946	ug/l	100
26) 2,2-Dichloropropane	6.890	77	836165	99.545	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	677651	104.123	ug/l	100
28) Bromochloromethane	7.250	49	351637	100.569	ug/l	99
29) Tetrahydrofuran	7.262	42	407174	551.338	ug/l	98
30) Chloroform	7.421	83	1015475	99.668	ug/l	100
31) Cyclohexane	7.701	56	785863	98.820	ug/l	98
32) 1,1,1-Trichloroethane	7.622	97	908433	99.760	ug/l	99
36) 1,1-Dichloropropene	7.835	75	702866	101.168	ug/l	99
37) Ethyl Acetate	6.988	43	287737	106.984	ug/l	99
38) Carbon Tetrachloride	7.817	117	821264	100.329	ug/l	99
39) Methylcyclohexane	9.109	83	946648	106.639	ug/l	99
40) Benzene	8.079	78	2238265	102.208	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023665.D
 Acq On : 04 Nov 2025 11:05
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:29:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:24:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	162465	113.249	ug/l	97
42) 1,2-Dichloroethane	8.158	62	564693	101.924	ug/l	99
43) Isopropyl Acetate	8.201	43	559293	110.678	ug/l #	87
44) Trichloroethene	8.866	130	626949	99.676	ug/l	97
45) 1,2-Dichloropropane	9.140	63	494430	102.300	ug/l	99
46) Dibromomethane	9.231	93	308450	103.001	ug/l	99
47) Bromodichloromethane	9.426	83	780217	103.338	ug/l	98
48) Methyl methacrylate	9.219	41	273819	114.688	ug/l	98
49) 1,4-Dioxane	9.231	88	66284	2162.837	ug/l	98
51) 4-Methyl-2-Pentanone	10.000	43	1509447	561.674	ug/l	99
52) Toluene	10.170	92	1494139	106.868	ug/l	98
53) t-1,3-Dichloropropene	10.396	75	708290	110.869	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	824093	107.667	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	414987	103.695	ug/l	96
56) Ethyl methacrylate	10.438	69	529329	120.046	ug/l	98
57) 1,3-Dichloropropane	10.719	76	663870	104.582	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	1213712	599.849	ug/l	99
59) 2-Hexanone	10.762	43	1099726	560.896	ug/l	99
60) Dibromochloromethane	10.914	129	577908	105.098	ug/l	100
61) 1,2-Dibromoethane	11.018	107	396076	105.457	ug/l	99
64) Tetrachloroethene	10.646	164	741118	96.137	ug/l	99
65) Chlorobenzene	11.438	112	1639055	101.655	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	583207	102.290	ug/l	99
67) Ethyl Benzene	11.518	91	2825731	108.283	ug/l	99
68) m/p-Xylenes	11.627	106	2241551	214.992	ug/l	99
69) o-Xylene	11.950	106	1062605	110.253	ug/l	99
70) Styrene	11.969	104	1753830	110.290	ug/l	100
71) Bromoform	12.133	173	351826	105.656	ug/l	99
73) Isopropylbenzene	12.255	105	2698043	108.880	ug/l	100
74) N-amyl acetate	12.066	43	491427	117.135	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	421715	106.557	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	294519m	98.221	ug/l	
77) Bromobenzene	12.530	156	677938	105.471	ug/l	98
78) n-propylbenzene	12.591	91	3116044	106.906	ug/l	99
79) 2-Chlorotoluene	12.676	91	1783319	105.435	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	2181015	108.328	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	142192	107.168	ug/l	99
82) 4-Chlorotoluene	12.773	91	1818934	104.277	ug/l	100
83) tert-Butylbenzene	12.993	119	2013210	109.789	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	2172108	108.924	ug/l	99
85) sec-Butylbenzene	13.176	105	2838051	107.306	ug/l	100
86) p-Isopropyltoluene	13.286	119	2438892	108.929	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	1292429	102.159	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	1243927	100.096	ug/l	99
89) n-Butylbenzene	13.615	91	2131963	109.503	ug/l	98
90) Hexachloroethane	13.877	117	492034	102.262	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	1107343	101.567	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	64052	105.113	ug/l	99
93) 1,2,4-Trichlorobenzene	14.919	180	691314	110.855	ug/l	100
94) Hexachlorobutadiene	15.023	225	415145	101.602	ug/l	99
95) Naphthalene	15.139	128	1145310	99.258	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	579136	111.152	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
Data File : VY023665.D
Acq On : 04 Nov 2025 11:05
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/05/2025
Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:29:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:24:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

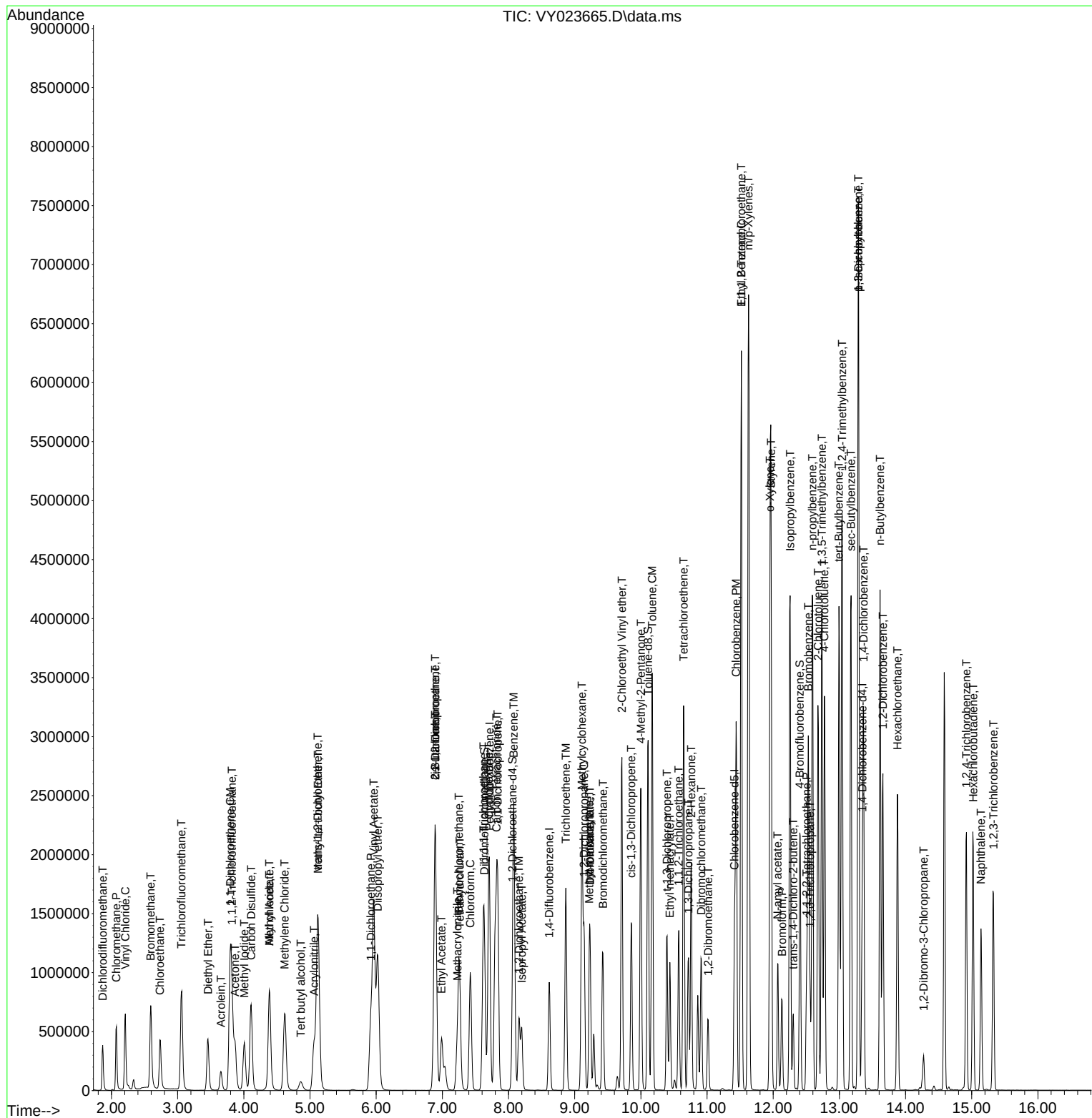
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023665.D
 Acq On : 04 Nov 2025 11:05
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Quant Time: Nov 05 04:29:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:24:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023666.D
 Acq On : 04 Nov 2025 11:27
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:30:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:24:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	621042	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	901916	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	790988	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	391606	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	757684	143.025	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 286.060%#			
35) Dibromofluoromethane	7.634	113	832527	147.706	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 295.420%#			
50) Toluene-d8	10.109	98	3136015	149.364	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 298.720%#			
62) 4-Bromofluorobenzene	12.402	95	1040552	153.250	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 306.500%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.867	85	496440	121.776	ug/l	99
3) Chloromethane	2.068	50	712373	124.873	ug/l	99
4) Vinyl Chloride	2.208	62	946660	127.526	ug/l	99
5) Bromomethane	2.586	94	814598	130.454	ug/l	99
6) Chloroethane	2.733	64	660222	128.682	ug/l	99
7) Trichlorofluoromethane	3.056	101	1409197	134.789	ug/l	99
8) Diethyl Ether	3.452	74	408901	145.847	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	772147	134.049	ug/l	100
10) Methyl Iodide	4.007	142	993484	146.059	ug/l	99
11) Tert butyl alcohol	4.860	59	249226	729.606	ug/l	98
12) 1,1-Dichloroethene	3.787	96	780521	140.665	ug/l	99
13) Acrolein	3.653	56	304058	692.535	ug/l	99
14) Allyl chloride	4.385	41	1016094	150.446	ug/l	98
15) Acrylonitrile	5.055	53	824786	769.798	ug/l	99
16) Acetone	3.866	43	947595	719.612	ug/l	99
17) Carbon Disulfide	4.104	76	2304859	135.337	ug/l	100
18) Methyl Acetate	4.385	43	405494	139.609	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	2032527	157.970	ug/l	99
20) Methylene Chloride	4.616	84	813039	127.899	ug/l	99
21) trans-1,2-Dichloroethene	5.116	96	892080	142.587	ug/l	95
22) Diisopropyl ether	6.019	45	2264384	150.464	ug/l	98
23) Vinyl Acetate	5.958	43	6576961	818.950	ug/l	99
24) 1,1-Dichloroethane	5.915	63	1415798	141.217	ug/l	99
25) 2-Butanone	6.896	43	1180801	775.579	ug/l	99
26) 2,2-Dichloropropane	6.884	77	1319960	143.128	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	1051376	147.141	ug/l	99
28) Bromochloromethane	7.244	49	519064	135.216	ug/l	99
29) Tetrahydrofuran	7.262	42	655805	808.815	ug/l	99
30) Chloroform	7.421	83	1551090	138.663	ug/l	99
31) Cyclohexane	7.701	56	1230432	140.926	ug/l	98
32) 1,1,1-Trichloroethane	7.622	97	1402944	140.327	ug/l	99
36) 1,1-Dichloropropene	7.835	75	1096950	145.645	ug/l	99
37) Ethyl Acetate	6.982	43	465489	159.651	ug/l	99
38) Carbon Tetrachloride	7.817	117	1279569	144.193	ug/l	99
39) Methylcyclohexane	9.109	83	1522789	158.237	ug/l	99
40) Benzene	8.079	78	3423551	144.208	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023666.D
 Acq On : 04 Nov 2025 11:27
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:30:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:24:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	270053	173.645	ug/l	93
42) 1,2-Dichloroethane	8.158	62	864999	144.018	ug/l	99
43) Isopropyl Acetate	8.195	43	915445	167.105	ug/l	100
44) Trichloroethene	8.866	130	968647	142.056	ug/l	100
45) 1,2-Dichloropropane	9.140	63	765153	146.035	ug/l	98
46) Dibromomethane	9.231	93	477241	147.004	ug/l	99
47) Bromodichloromethane	9.420	83	1193540	145.820	ug/l	100
48) Methyl methacrylate	9.219	41	456960	176.551	ug/l	99
49) 1,4-Dioxane	9.225	88	110006	3311.077	ug/l	98
51) 4-Methyl-2-Pentanone	10.000	43	2437010	836.491	ug/l	100
52) Toluene	10.170	92	2278105	150.304	ug/l	97
53) t-1,3-Dichloropropene	10.390	75	1101094	158.988	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	1281333	154.422	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	637615	146.967	ug/l	98
56) Ethyl methacrylate	10.438	69	873314	182.696	ug/l	99
57) 1,3-Dichloropropane	10.719	76	1018360	147.983	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	1973993	899.933	ug/l	99
59) 2-Hexanone	10.762	43	1802207	847.892	ug/l	99
60) Dibromochloromethane	10.914	129	889783	149.265	ug/l	99
61) 1,2-Dibromoethane	11.012	107	612102	150.335	ug/l	100
64) Tetrachloroethene	10.646	164	1096726	133.211	ug/l	98
65) Chlorobenzene	11.438	112	2508744	145.689	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	891788	146.458	ug/l	99
67) Ethyl Benzene	11.518	91	4316877	154.896	ug/l	100
68) m/p-Xylenes	11.627	106	3451849	310.002	ug/l	99
69) o-Xylene	11.957	106	1640734	159.402	ug/l	100
70) Styrene	11.969	104	2716949	159.981	ug/l	99
71) Bromoform	12.133	173	548567	154.254	ug/l	100
73) Isopropylbenzene	12.255	105	4137095	157.957	ug/l	99
74) N-amyl acetate	12.066	43	819575	184.824	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	662143	158.291	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	459716m	145.052	ug/l	
77) Bromobenzene	12.530	156	1039954	153.073	ug/l	98
78) n-propylbenzene	12.591	91	4789010	155.449	ug/l	99
79) 2-Chlorotoluene	12.676	91	2739475	153.238	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	3356489	157.728	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	230746	164.538	ug/l	98
82) 4-Chlorotoluene	12.773	91	2799224	151.827	ug/l	99
83) tert-Butylbenzene	12.993	119	3140967	162.060	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	3343184	158.616	ug/l	99
85) sec-Butylbenzene	13.176	105	4372346	156.408	ug/l	99
86) p-Isopropyltoluene	13.292	119	3826970	161.714	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	2007587	150.136	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	1914429	145.749	ug/l	99
89) n-Butylbenzene	13.615	91	3341239	162.367	ug/l	98
90) Hexachloroethane	13.877	117	761235	149.685	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	1711163	148.493	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	101448	157.511	ug/l	96
93) 1,2,4-Trichlorobenzene	14.919	180	1108704	168.205	ug/l	99
94) Hexachlorobutadiene	15.023	225	641847	148.620	ug/l	99
95) Naphthalene	15.139	128	1891291	152.117	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	929367	168.759	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
Data File : VY023666.D
Acq On : 04 Nov 2025 11:27
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/05/2025
Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:30:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:24:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

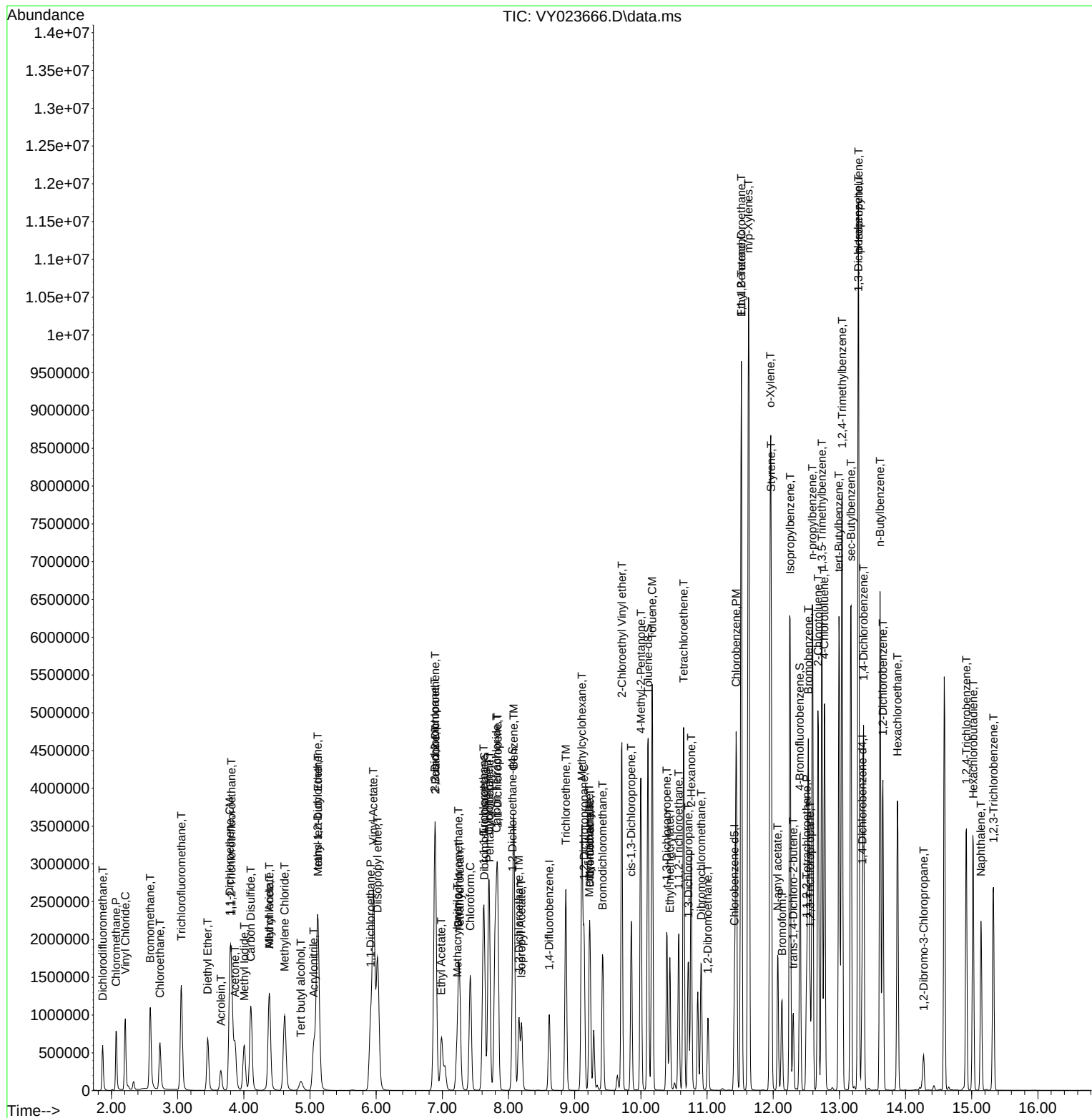
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023666.D
 Acq On : 04 Nov 2025 11:27
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Quant Time: Nov 05 04:30:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:24:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023668.D
 Acq On : 04 Nov 2025 12:14
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY110425

Quant Time: Nov 05 04:45:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	608113	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	888282	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	783299	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	398785	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	242791	46.805	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	93.620%		
35) Dibromofluoromethane	7.634	113	268074	48.291	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	96.580%		
50) Toluene-d8	10.109	98	1040318	50.309	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	100.620%		
62) 4-Bromofluorobenzene	12.402	95	344284	51.484	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	102.960%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	169445	42.448	ug/l	99
3) Chloromethane	2.074	50	256717	45.957	ug/l	99
4) Vinyl Chloride	2.208	62	330280	45.438	ug/l	98
5) Bromomethane	2.599	94	277800	45.434	ug/l	97
6) Chloroethane	2.739	64	235159	46.809	ug/l	99
7) Trichlorofluoromethane	3.056	101	474583	46.359	ug/l	98
8) Diethyl Ether	3.458	74	132465	48.252	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	267535	47.433	ug/l	100
10) Methyl Iodide	4.007	142	316753	47.558	ug/l	99
11) Tert butyl alcohol	4.860	59	75144	224.660	ug/l	96
12) 1,1-Dichloroethene	3.793	96	261851	48.194	ug/l	99
13) Acrolein	3.653	56	91811	213.558	ug/l	99
14) Allyl chloride	4.385	41	330702	50.006	ug/l	99
15) Acrylonitrile	5.062	53	257491	245.434	ug/l	99
16) Acetone	3.867	43	294814	228.644	ug/l	95
17) Carbon Disulfide	4.110	76	787691	47.235	ug/l	99
18) Methyl Acetate	4.385	43	126071	44.328	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	643310	51.062	ug/l	99
20) Methylene Chloride	4.616	84	285026	45.791	ug/l	99
21) trans-1,2-Dichloroethene	5.122	96	300477	49.048	ug/l	99
22) Diisopropyl ether	6.025	45	755561	51.273	ug/l	100
23) Vinyl Acetate	5.964	43	2077321	264.163	ug/l	100
24) 1,1-Dichloroethane	5.921	63	471845	48.064	ug/l	99
25) 2-Butanone	6.897	43	352581	236.507	ug/l	100
26) 2,2-Dichloropropane	6.890	77	437078	48.402	ug/l	99
27) cis-1,2-Dichloroethene	6.897	96	347603	49.682	ug/l	99
28) Bromochloromethane	7.250	49	176101	46.849	ug/l	99
29) Tetrahydrofuran	7.262	42	198667	250.229	ug/l	99
30) Chloroform	7.421	83	524526	47.888	ug/l	100
31) Cyclohexane	7.701	56	414807	48.520	ug/l	98
32) 1,1,1-Trichloroethane	7.622	97	471242	48.137	ug/l	99
36) 1,1-Dichloropropene	7.835	75	369989	49.878	ug/l	100
37) Ethyl Acetate	6.988	43	146441	50.997	ug/l	99
38) Carbon Tetrachloride	7.823	117	432288	49.462	ug/l	100
39) Methylcyclohexane	9.110	83	501162	52.876	ug/l	98
40) Benzene	8.079	78	1163766	49.773	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023668.D
 Acq On : 04 Nov 2025 12:14
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY110425

Quant Time: Nov 05 04:45:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/05/2025
 Supervised By :Mahesh Dadoda 11/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	68046	43.412	ug/l #	81
42) 1,2-Dichloroethane	8.159	62	287665	48.630	ug/l	99
43) Isopropyl Acetate	8.201	43	277810	51.490	ug/l #	87
44) Trichloroethene	8.866	130	327327	48.741	ug/l	97
45) 1,2-Dichloropropane	9.140	63	257161	49.835	ug/l	98
46) Dibromomethane	9.232	93	159165	49.780	ug/l	98
47) Bromodichloromethane	9.420	83	399133	49.512	ug/l	99
48) Methyl methacrylate	9.219	41	135247	53.056	ug/l	99
49) 1,4-Dioxane	9.225	88	32783	1001.883	ug/l	100
51) 4-Methyl-2-Pentanone	10.000	43	739467	257.714	ug/l	99
52) Toluene	10.170	92	769370	51.540	ug/l	98
53) t-1,3-Dichloropropene	10.396	75	349820	51.286	ug/l	100
54) cis-1,3-Dichloropropene	9.859	75	418833	51.251	ug/l	96
55) 1,1,2-Trichloroethane	10.573	97	209781	49.096	ug/l	95
56) Ethyl methacrylate	10.439	69	259940	55.214	ug/l	99
57) 1,3-Dichloropropane	10.719	76	337613	49.813	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	586635	271.549	ug/l	100
59) 2-Hexanone	10.762	43	536488	256.278	ug/l	100
60) Dibromochloromethane	10.908	129	293578	50.005	ug/l	100
61) 1,2-Dibromoethane	11.012	107	200656	50.038	ug/l	99
64) Tetrachloroethene	10.646	164	384807	47.199	ug/l	98
65) Chlorobenzene	11.438	112	849748	49.832	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	298190	49.452	ug/l	99
67) Ethyl Benzene	11.518	91	1445427	52.373	ug/l	99
68) m/p-Xylenes	11.627	106	1159953	105.195	ug/l	100
69) o-Xylene	11.957	106	541389	53.114	ug/l	99
70) Styrene	11.969	104	896108	53.283	ug/l	99
71) Bromoform	12.133	173	177352	50.360	ug/l #	99
73) Isopropylbenzene	12.255	105	1417486	53.146	ug/l	99
74) N-amyl acetate	12.072	43	238873	52.899	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	214414	50.335	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	153462m	47.550	ug/l	
77) Bromobenzene	12.530	156	348579	50.384	ug/l	99
78) n-propylbenzene	12.591	91	1654045	52.723	ug/l	100
79) 2-Chlorotoluene	12.676	91	940627	51.669	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	1152618	53.189	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	70336	49.252	ug/l	99
82) 4-Chlorotoluene	12.774	91	965258	51.412	ug/l	100
83) tert-Butylbenzene	12.993	119	1067903	54.107	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	1146575	53.419	ug/l	99
85) sec-Butylbenzene	13.170	105	1517909	53.321	ug/l	100
86) p-Isopropyltoluene	13.292	119	1299518	53.924	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	681531	50.050	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	656109	49.051	ug/l	99
89) n-Butylbenzene	13.615	91	1139328	54.369	ug/l	99
90) Hexachloroethane	13.877	117	258543	49.923	ug/l	99
91) 1,2-Dichlorobenzene	13.658	146	587705	50.082	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	31188	47.551	ug/l	96
93) 1,2,4-Trichlorobenzene	14.919	180	356674	53.138	ug/l	100
94) Hexachlorobutadiene	15.023	225	222246	50.535	ug/l	99
95) Naphthalene	15.139	128	560653	48.012	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	300360	53.559	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
Data File : VY023668.D
Acq On : 04 Nov 2025 12:14
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY110425

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/05/2025
Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:41:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023668.D
 Acq On : 04 Nov 2025 12:14
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY110425

Quant Time: Nov 05 04:45:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	106	0.00
2 T	Dichlorodifluoromethane	0.328	0.279	14.9	107	0.00
3 P	Chloromethane	0.459	0.422	8.1	108	0.00
4 C	Vinyl Chloride	0.598	0.543	9.2#	105	0.00
5 T	Bromomethane	0.503	0.457	9.1	109	0.00
6 T	Chloroethane	0.413	0.387	6.3	106	0.00
7 T	Trichlorofluoromethane	0.842	0.780	7.4	106	0.00
8 T	Diethyl Ether	0.226	0.218	3.5	108	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.464	0.440	5.2	107	0.00
10 T	Methyl Iodide	0.548	0.521	4.9	96	0.00
11 T	Tert butyl alcohol	0.028	0.025	10.7	114	0.00
12 CM	1,1-Dichloroethene	0.447	0.431	3.6#	108	0.00
13 T	Acrolein	0.035	0.030	14.3	108	0.00
14 T	Allyl chloride	0.544	0.544	0.0	109	0.00
15 T	Acrylonitrile	0.086	0.085	1.2	110	0.00
16 T	Acetone	0.106	0.097	8.5	108	0.00
17 T	Carbon Disulfide	1.371	1.295	5.5	106	0.00
18 T	Methyl Acetate	0.234	0.207	11.5	104	0.00
19 T	Methyl tert-butyl Ether	1.036	1.058	-2.1	111	0.00
20 T	Methylene Chloride	0.512	0.469	8.4	108	0.00
21 T	trans-1,2-Dichloroethene	0.504	0.494	2.0	107	0.00
22 T	Diisopropyl ether	1.212	1.242	-2.5	107	0.00
23 T	Vinyl Acetate	0.647	0.683	-5.6	111	0.00
24 P	1,1-Dichloroethane	0.807	0.776	3.8	106	0.00
25 T	2-Butanone	0.123	0.116	5.7	110	0.00
26 T	2,2-Dichloropropane	0.742	0.719	3.1	107	0.00
27 T	cis-1,2-Dichloroethene	0.575	0.572	0.5	108	0.00
28 T	Bromochloromethane	0.309	0.290	6.1	105	0.00
29 T	Tetrahydrofuran	0.065	0.065	0.0	111	0.00
30 C	Chloroform	0.901	0.863	4.2#	106	0.00
31 T	Cyclohexane	0.703	0.682	3.0	109	0.00
32 T	1,1,1-Trichloroethane	0.805	0.775	3.7	106	0.00
33 S	1,2-Dichloroethane-d4	0.427	0.399	6.6	104	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35 S	Dibromofluoromethane	0.312	0.302	3.2	103	0.00
36 T	1,1-Dichloropropene	0.418	0.417	0.2	107	0.00
37 T	Ethyl Acetate	0.162	0.165	-1.9	112	0.00
38 T	Carbon Tetrachloride	0.492	0.487	1.0	107	0.00
39 T	Methylcyclohexane	0.534	0.564	-5.6	110	0.00
40 TM	Benzene	1.316	1.310	0.5	107	0.00
41 T	Methacrylonitrile	0.088	0.077	12.5	96	0.00
42 TM	1,2-Dichloroethane	0.333	0.324	2.7	106	0.00
43 T	Isopropyl Acetate	0.304	0.313	-3.0	112	0.00
44 TM	Trichloroethene	0.378	0.368	2.6	106	0.00
45 C	1,2-Dichloropropane	0.290	0.290	0.0	107	0.00
46 T	Dibromomethane	0.180	0.179	0.6	109	0.00
47 T	Bromodichloromethane	0.454	0.449	1.1	106	0.00
48 T	Methyl methacrylate	0.143	0.152	-6.3	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023668.D
 Acq On : 04 Nov 2025 12:14
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY110425

Quant Time: Nov 05 04:45:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 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	108	0.00
50 S	Toluene-d8	1.164	1.171	-0.6	104	0.00
51 T	4-Methyl-2-Pentanone	0.162	0.166	-2.5	111	0.00
52 CM	Toluene	0.840	0.866	-3.1#	107	0.00
53 T	t-1,3-Dichloropropene	0.384	0.394	-2.6	107	0.00
54 T	cis-1,3-Dichloropropene	0.460	0.472	-2.6	107	0.00
55 T	1,1,2-Trichloroethane	0.241	0.236	2.1	106	0.00
56 T	Ethyl methacrylate	0.265	0.293	-10.6	111	0.00
57 T	1,3-Dichloropropane	0.381	0.380	0.3	106	0.00
58 T	2-Chloroethyl Vinyl ether	0.122	0.132	-8.2	109	0.00
59 T	2-Hexanone	0.118	0.121	-2.5	111	0.00
60 T	Dibromochloromethane	0.330	0.331	-0.3	107	0.00
61 T	1,2-Dibromoethane	0.226	0.226	0.0	107	0.00
62 S	4-Bromofluorobenzene	0.376	0.388	-3.2	105	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
64 T	Tetrachloroethene	0.520	0.491	5.6	100	0.00
65 PM	Chlorobenzene	1.088	1.085	0.3	106	0.00
66 T	1,1,1,2-Tetrachloroethane	0.385	0.381	1.0	106	0.00
67 C	Ethyl Benzene	1.762	1.845	-4.7#	107	0.00
68 T	m/p-Xylenes	0.704	0.740	-5.1	107	0.00
69 T	o-Xylene	0.651	0.691	-6.1	107	0.00
70 T	Styrene	1.074	1.144	-6.5	107	0.00
71 P	Bromoform	0.225	0.226	-0.4	108	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73 T	Isopropylbenzene	3.344	3.555	-6.3	108	0.00
74 T	N-amyl acetate	0.566	0.599	-5.8	109	0.00
75 P	1,1,2,2-Tetrachloroethane	0.534	0.538	-0.7	113	0.00
76 T	1,2,3-Trichloropropane	0.405	0.385	4.9	109	0.00
77 T	Bromobenzene	0.867	0.874	-0.8	107	0.00
78 T	n-propylbenzene	3.933	4.148	-5.5	107	0.00
79 T	2-Chlorotoluene	2.283	2.359	-3.3	107	0.00
80 T	1,3,5-Trimethylbenzene	2.717	2.890	-6.4	107	0.00
81 T	trans-1,4-Dichloro-2-butene	0.179	0.176	1.7	108	0.00
82 T	4-Chlorotoluene	2.354	2.420	-2.8	107	0.00
83 T	tert-Butylbenzene	2.475	2.678	-8.2	110	0.00
84 T	1,2,4-Trimethylbenzene	2.691	2.875	-6.8	107	0.00
85 T	sec-Butylbenzene	3.569	3.806	-6.6	109	0.00
86 T	p-Isopropyltoluene	3.022	3.259	-7.8	108	0.00
87 T	1,3-Dichlorobenzene	1.707	1.709	-0.1	106	0.00
88 T	1,4-Dichlorobenzene	1.677	1.645	1.9	105	0.00
89 T	n-Butylbenzene	2.627	2.857	-8.8	109	0.00
90 T	Hexachloroethane	0.649	0.648	0.2	107	0.00
91 T	1,2-Dichlorobenzene	1.471	1.474	-0.2	107	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.082	0.078	4.9	108	0.00
93 T	1,2,4-Trichlorobenzene	0.842	0.894	-6.2	110	0.00
94 T	Hexachlorobutadiene	0.551	0.557	-1.1	106	0.00
95 T	Naphthalene	1.257	1.406	-11.9	114	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
Data File : VY023668.D
Acq On : 04 Nov 2025 12:14
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY110425

Quant Time: Nov 05 04:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:41:50 2025
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	0.703	0.753	-7.1	111	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 5

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\YY110425\
 Data File : VY023668.D
 Acq On : 04 Nov 2025 12:14
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY110425

Quant Time: Nov 05 04:45:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	106	0.00
2 T	Dichlorodifluoromethane	50.000	42.448	15.1	107	0.00
3 P	Chloromethane	50.000	45.957	8.1	108	0.00
4 C	Vinyl Chloride	50.000	45.438	9.1#	105	0.00
5 T	Bromomethane	50.000	45.434	9.1	109	0.00
6 T	Chloroethane	50.000	46.809	6.4	106	0.00
7 T	Trichlorofluoromethane	50.000	46.359	7.3	106	0.00
8 T	Diethyl Ether	50.000	48.252	3.5	108	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	47.433	5.1	107	0.00
10 T	Methyl Iodide	50.000	47.558	4.9	96	0.00
11 T	Tert butyl alcohol	250.000	224.660	10.1	114	0.00
12 CM	1,1-Dichloroethene	50.000	48.194	3.6#	108	0.00
13 T	Acrolein	250.000	213.558	14.6	108	0.00
14 T	Allyl chloride	50.000	50.006	-0.0	109	0.00
15 T	Acrylonitrile	250.000	245.434	1.8	110	0.00
16 T	Acetone	250.000	228.644	8.5	108	0.00
17 T	Carbon Disulfide	50.000	47.235	5.5	106	0.00
18 T	Methyl Acetate	50.000	44.328	11.3	104	0.00
19 T	Methyl tert-butyl Ether	50.000	51.062	-2.1	111	0.00
20 T	Methylene Chloride	50.000	45.791	8.4	108	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.048	1.9	107	0.00
22 T	Diisopropyl ether	50.000	51.273	-2.5	107	0.00
23 T	Vinyl Acetate	250.000	264.163	-5.7	111	0.00
24 P	1,1-Dichloroethane	50.000	48.064	3.9	106	0.00
25 T	2-Butanone	250.000	236.507	5.4	110	0.00
26 T	2,2-Dichloropropane	50.000	48.402	3.2	107	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.682	0.6	108	0.00
28 T	Bromochloromethane	50.000	46.849	6.3	105	0.00
29 T	Tetrahydrofuran	250.000	250.229	-0.1	111	0.00
30 C	Chloroform	50.000	47.888	4.2#	106	0.00
31 T	Cyclohexane	50.000	48.520	3.0	109	0.00
32 T	1,1,1-Trichloroethane	50.000	48.137	3.7	106	0.00
33 S	1,2-Dichloroethane-d4	50.000	46.805	6.4	104	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35 S	Dibromofluoromethane	50.000	48.291	3.4	103	0.00
36 T	1,1-Dichloropropene	50.000	49.878	0.2	107	0.00
37 T	Ethyl Acetate	50.000	50.997	-2.0	112	0.00
38 T	Carbon Tetrachloride	50.000	49.462	1.1	107	0.00
39 T	Methylcyclohexane	50.000	52.876	-5.8	110	0.00
40 TM	Benzene	50.000	49.773	0.5	107	0.00
41 T	Methacrylonitrile	50.000	43.412	13.2	96	0.00
42 TM	1,2-Dichloroethane	50.000	48.630	2.7	106	0.00
43 T	Isopropyl Acetate	50.000	51.490	-3.0	112	0.00
44 TM	Trichloroethene	50.000	48.741	2.5	106	0.00
45 C	1,2-Dichloropropane	50.000	49.835	0.3#	107	0.00
46 T	Dibromomethane	50.000	49.780	0.4	109	0.00
47 T	Bromodichloromethane	50.000	49.512	1.0	106	0.00
48 T	Methyl methacrylate	50.000	53.056	-6.1	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
 Data File : VY023668.D
 Acq On : 04 Nov 2025 12:14
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY110425

Quant Time: Nov 05 04:45:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 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	1001.883	-0.2	108	0.00
50 S	Toluene-d8	50.000	50.309	-0.6	104	0.00
51 T	4-Methyl-2-Pentanone	250.000	257.714	-3.1	111	0.00
52 CM	Toluene	50.000	51.540	-3.1#	107	0.00
53 T	t-1,3-Dichloropropene	50.000	51.286	-2.6	107	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.251	-2.5	107	0.00
55 T	1,1,2-Trichloroethane	50.000	49.096	1.8	106	0.00
56 T	Ethyl methacrylate	50.000	55.214	-10.4	111	0.00
57 T	1,3-Dichloropropane	50.000	49.813	0.4	106	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	271.549	-8.6	109	0.00
59 T	2-Hexanone	250.000	256.278	-2.5	111	0.00
60 T	Dibromochloromethane	50.000	50.005	-0.0	107	0.00
61 T	1,2-Dibromoethane	50.000	50.038	-0.1	107	0.00
62 S	4-Bromofluorobenzene	50.000	51.484	-3.0	105	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	105	0.00
64 T	Tetrachloroethene	50.000	47.199	5.6	100	0.00
65 PM	Chlorobenzene	50.000	49.832	0.3	106	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.452	1.1	106	0.00
67 C	Ethyl Benzene	50.000	52.373	-4.7#	107	0.00
68 T	m/p-Xylenes	100.000	105.195	-5.2	107	0.00
69 T	o-Xylene	50.000	53.114	-6.2	107	0.00
70 T	Styrene	50.000	53.283	-6.6	107	0.00
71 P	Bromoform	50.000	50.360	-0.7	108	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73 T	Isopropylbenzene	50.000	53.146	-6.3	108	0.00
74 T	N-ethyl acetate	50.000	52.899	-5.8	109	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.335	-0.7	113	0.00
76 T	1,2,3-Trichloropropane	50.000	47.550	4.9	109	0.00
77 T	Bromobenzene	50.000	50.384	-0.8	107	0.00
78 T	n-propylbenzene	50.000	52.723	-5.4	107	0.00
79 T	2-Chlorotoluene	50.000	51.669	-3.3	107	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.189	-6.4	107	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.252	1.5	108	0.00
82 T	4-Chlorotoluene	50.000	51.412	-2.8	107	0.00
83 T	tert-Butylbenzene	50.000	54.107	-8.2	110	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.419	-6.8	107	0.00
85 T	sec-Butylbenzene	50.000	53.321	-6.6	109	0.00
86 T	p-Isopropyltoluene	50.000	53.924	-7.8	108	0.00
87 T	1,3-Dichlorobenzene	50.000	50.050	-0.1	106	0.00
88 T	1,4-Dichlorobenzene	50.000	49.051	1.9	105	0.00
89 T	n-Butylbenzene	50.000	54.369	-8.7	109	0.00
90 T	Hexachloroethane	50.000	49.923	0.2	107	0.00
91 T	1,2-Dichlorobenzene	50.000	50.082	-0.2	107	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	47.551	4.9	108	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.138	-6.3	110	0.00
94 T	Hexachlorobutadiene	50.000	50.535	-1.1	106	0.00
95 T	Naphthalene	50.000	48.012	4.0	114	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
Data File : VY023668.D
Acq On : 04 Nov 2025 12:14
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY110425

Quant Time: Nov 05 04:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:41:50 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	53.559	-7.1	111	0.00

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>REMI02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3586</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>11/11/2025 08:31</u>
Lab File ID:	<u>VW032415.D</u>	Init. Calib. Date(s):	<u>11/10/2025 11/10/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>15:11 17:00</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.254	0.230		-9.45	20
Chloromethane	0.435	0.408	0.1	-6.21	20
Vinyl Chloride	0.549	0.558		1.64	20
Bromomethane	0.367	0.372		1.36	20
Chloroethane	0.359	0.355		-1.11	20
Trichlorofluoromethane	0.430	0.384		-10.7	20
1,1,2-Trichlorotrifluoroethane	0.469	0.477		1.71	20
1,1-Dichloroethene	0.537	0.550		2.42	20
Acetone	0.193	0.206		6.74	20
Carbon Disulfide	1.588	1.648		3.78	20
Methyl tert-butyl Ether	1.133	1.115		-1.59	20
Methyl Acetate	0.478	0.417		-12.76	20
Methylene Chloride	0.690	0.644		-6.67	20
trans-1,2-Dichloroethene	0.615	0.612		-0.49	20
1,1-Dichloroethane	1.153	1.157	0.1	0.35	20
Cyclohexane	1.066	1.033		-3.1	20
2-Butanone	0.284	0.267		-5.99	20
Carbon Tetrachloride	0.392	0.390		-0.51	20
cis-1,2-Dichloroethene	0.734	0.737		0.41	20
Bromochloromethane	0.545	0.521		-4.4	20
Chloroform	1.129	1.128		-0.09	20
1,1,1-Trichloroethane	0.806	0.818		1.49	20
Methylcyclohexane	0.571	0.573		0.35	20
Benzene	1.420	1.398		-1.55	20
1,2-Dichloroethane	0.417	0.397		-4.8	20
Trichloroethene	0.331	0.317		-4.23	20
1,2-Dichloropropane	0.354	0.348		-1.7	20
Bromodichloromethane	0.471	0.467		-0.85	20
4-Methyl-2-Pentanone	0.321	0.295		-8.1	20
Toluene	0.877	0.857		-2.28	20
t-1,3-Dichloropropene	0.486	0.482		-0.82	20
cis-1,3-Dichloropropene	0.562	0.559		-0.53	20
1,1,2-Trichloroethane	0.284	0.267		-5.99	20
2-Hexanone	0.235	0.217		-7.66	20
Dibromochloromethane	0.317	0.315		-0.63	20
1,2-Dibromoethane	0.276	0.262		-5.07	20
Tetrachloroethene	0.296	0.304		2.7	20
Chlorobenzene	1.078	1.089	0.3	1.02	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>REMI02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3586</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>11/11/2025 08:31</u>
Lab File ID:	<u>VW032415.D</u>	Init. Calib. Date(s):	<u>11/10/2025 11/10/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>15:11 17:00</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.865	1.926		3.27	20
m/p-Xylenes	0.700	0.720		2.86	20
o-Xylene	0.670	0.690		2.98	20
Styrene	1.153	1.208		4.77	20
Bromoform	0.198	0.193	0.1	-2.53	20
Isopropylbenzene	3.672	3.829		4.28	20
1,1,2,2-Tetrachloroethane	0.871	0.837	0.3	-3.9	20
1,3-Dichlorobenzene	1.648	1.714		4.01	20
1,4-Dichlorobenzene	1.689	1.688		-0.06	20
1,2-Dichlorobenzene	1.513	1.494		-1.26	20
1,2-Dibromo-3-Chloropropane	0.150	0.139		-7.33	20
1,2,4-Trichlorobenzene	0.963	0.953		-1.04	20
1,2,3-Trichlorobenzene	0.874	0.833		-4.69	20
1,2-Dichloroethane-d4	0.645	0.618		-4.19	20
Dibromofluoromethane	0.299	0.293		-2.01	20
Toluene-d8	1.148	1.160		1.04	20
4-Bromofluorobenzene	0.434	0.421		-2.99	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032415.D
 Acq On : 11 Nov 2025 08:31
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/12/2025
 Supervised By :Mahesh Dadoda 11/12/2025

Quant Time: Nov 12 03:39:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	445777	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	817849	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	708146	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	322015	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	275705	47.973	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	95.940%		
35) Dibromofluoromethane	7.898	113	239960	49.005	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	98.000%		
50) Toluene-d8	10.325	98	948463	50.490	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	100.980%		
62) 4-Bromofluorobenzene	12.617	95	344073	48.486	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	96.980%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.046	85	102645	45.384	ug/l	100
3) Chloromethane	2.253	50	181695	46.869	ug/l	98
4) Vinyl Chloride	2.405	62	248915	50.876	ug/l	99
5) Bromomethane	2.826	94	165956	50.709	ug/l	97
6) Chloroethane	2.966	64	158338	49.465	ug/l	96
7) Trichlorofluoromethane	3.308	101	171358	44.672	ug/l	90
8) Diethyl Ether	3.722	74	150051	47.845	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.106	101	212667	50.895	ug/l	99
10) Methyl Iodide	4.301	142	333507	49.554	ug/l	100
11) Tert butyl alcohol	5.204	59	109182	219.702	ug/l	100
12) 1,1-Dichloroethene	4.076	96	245050	51.143	ug/l	99
13) Acrolein	3.929	56	188523	226.103	ug/l	100
14) Allyl chloride	4.704	41	467882	50.778	ug/l	99
15) Acrylonitrile	5.399	53	417316	230.141	ug/l	98
16) Acetone	4.155	43	458577	266.708	ug/l	98
17) Carbon Disulfide	4.417	76	734802	51.887	ug/l	98
18) Methyl Acetate	4.704	43	185868	43.653	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	496989	49.206	ug/l	98
20) Methylene Chloride	4.954	84	286929	46.663	ug/l	96
21) trans-1,2-Dichloroethene	5.460	96	272949	49.820	ug/l	99
22) Diisopropyl ether	6.338	45	938376	50.019	ug/l	94
23) Vinyl Acetate	6.283	43	3148049	244.919	ug/l	100
24) 1,1-Dichloroethane	6.246	63	515807	50.183	ug/l	99
25) 2-Butanone	7.185	43	595072	234.918	ug/l	98
26) 2,2-Dichloropropane	7.185	77	288631	50.386	ug/l	98
27) cis-1,2-Dichloroethene	7.191	96	328389	50.163	ug/l	98
28) Bromochloromethane	7.532	49	232262	47.810	ug/l	99
29) Tetrahydrofuran	7.551	42	361137	224.618	ug/l	99
30) Chloroform	7.691	83	502615	49.951	ug/l	99
31) Cyclohexane	7.965	56	460650	48.449	ug/l	92
32) 1,1,1-Trichloroethane	7.886	97	364762	50.745	ug/l	99
36) 1,1-Dichloropropene	8.093	75	361132	50.055	ug/l	99
37) Ethyl Acetate	7.270	43	251412	46.863	ug/l	98
38) Carbon Tetrachloride	8.081	117	318923	49.749	ug/l	98
39) Methylcyclohexane	9.343	83	468816	50.160	ug/l	92
40) Benzene	8.331	78	1143141	49.201	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032415.D
 Acq On : 11 Nov 2025 08:31
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Quant Time: Nov 12 03:39:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/12/2025
 Supervised By :Mahesh Dadoda 11/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.496	41	141617	48.053	ug/l	96
42) 1,2-Dichloroethane	8.410	62	324789	47.591	ug/l	100
43) Isopropyl Acetate	8.435	43	442753	46.608	ug/l	100
44) Trichloroethene	9.099	130	259215	47.946	ug/l	98
45) 1,2-Dichloropropane	9.374	63	284805	49.229	ug/l	100
46) Dibromomethane	9.465	93	161090	47.650	ug/l	97
47) Bromodichloromethane	9.648	83	381933	49.526	ug/l	96
48) Methyl methacrylate	9.441	41	201960	44.740	ug/l	94
49) 1,4-Dioxane	9.459	88	40632	857.939	ug/l #	100
51) 4-Methyl-2-Pentanone	10.209	43	1205412	229.535	ug/l	100
52) Toluene	10.392	92	700820	48.833	ug/l	98
53) t-1,3-Dichloropropene	10.605	75	394229	49.637	ug/l	98
54) cis-1,3-Dichloropropene	10.075	75	457207	49.780	ug/l	97
55) 1,1,2-Trichloroethane	10.788	97	218099	47.026	ug/l	96
56) Ethyl methacrylate	10.648	69	337553	47.436	ug/l	99
57) 1,3-Dichloropropane	10.934	76	394094	47.577	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	914368	241.283	ug/l	100
59) 2-Hexanone	10.971	43	887011	230.859	ug/l	99
60) Dibromochloromethane	11.129	129	257490	49.716	ug/l	96
61) 1,2-Dibromoethane	11.239	107	214497	47.486	ug/l	97
64) Tetrachloroethene	10.867	164	215154	51.307	ug/l	90
65) Chlorobenzene	11.660	112	771179	50.526	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.733	131	237727	50.327	ug/l	99
67) Ethyl Benzene	11.733	91	1363632	51.634	ug/l	98
68) m/p-Xylenes	11.837	106	1019879	102.855	ug/l	99
69) o-Xylene	12.166	106	488742	51.478	ug/l	99
70) Styrene	12.178	104	855523	52.382	ug/l	99
71) Bromoform	12.349	173	136337	48.729	ug/l #	99
73) Isopropylbenzene	12.458	105	1232868	52.130	ug/l	99
74) N-amyl acetate	12.269	43	402411	48.966	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.714	83	269535	48.022	ug/l	98
76) 1,2,3-Trichloropropane	12.763	75	192185m	43.527	ug/l	
77) Bromobenzene	12.745	156	280951	50.174	ug/l	96
78) n-propylbenzene	12.800	91	1489489	51.716	ug/l	100
79) 2-Chlorotoluene	12.885	91	906183	51.541	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	1051417	53.888	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.507	75	95689	49.638	ug/l	99
82) 4-Chlorotoluene	12.983	91	938697	51.332	ug/l	97
83) tert-Butylbenzene	13.202	119	881442	51.933	ug/l	99
84) 1,2,4-Trimethylbenzene	13.245	105	1033235	52.065	ug/l	99
85) sec-Butylbenzene	13.379	105	1326807	52.490	ug/l	99
86) p-Isopropyltoluene	13.495	119	1083277	51.904	ug/l	100
87) 1,3-Dichlorobenzene	13.495	146	551922	51.987	ug/l	97
88) 1,4-Dichlorobenzene	13.574	146	543448	49.965	ug/l	100
89) n-Butylbenzene	13.818	91	1071061	52.529	ug/l	99
90) Hexachloroethane	14.086	117	192194	51.075	ug/l	99
91) 1,2-Dichlorobenzene	13.867	146	481235	49.379	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.476	75	44764	46.296	ug/l	98
93) 1,2,4-Trichlorobenzene	15.129	180	306764	49.463	ug/l	98
94) Hexachlorobutadiene	15.226	225	131507	51.047	ug/l	98
95) Naphthalene	15.360	128	746797	48.288	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	268151	47.624	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032415.D
Acq On : 11 Nov 2025 08:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/12/2025
Supervised By :Mahesh Dadoda 11/12/2025

Quant Time: Nov 12 03:39:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

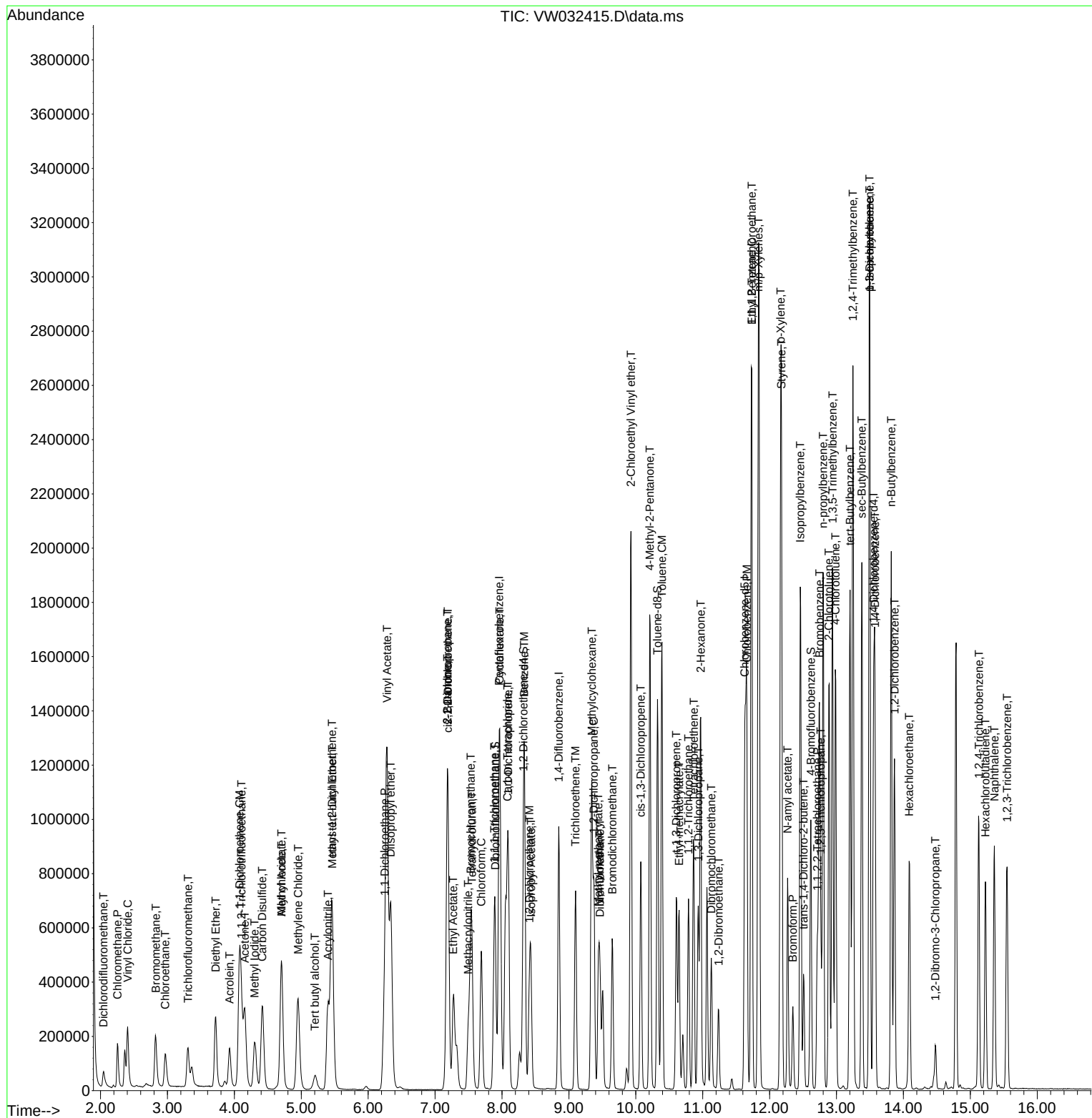
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032415.D
 Acq On : 11 Nov 2025 08:31
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Quant Time: Nov 12 03:39:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/12/2025
 Supervised By :Mahesh Dadoda 11/12/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032415.D
 Acq On : 11 Nov 2025 08:31
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 12 03:39:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	94	0.00
2 T	Dichlorodifluoromethane	0.254	0.230	9.4	87	0.00
3 P	Chloromethane	0.435	0.408	6.2	94	0.00
4 C	Vinyl Chloride	0.549	0.558	-1.6#	98	0.00
5 T	Bromomethane	0.367	0.372	-1.4	98	0.00
6 T	Chloroethane	0.359	0.355	1.1	94	0.00
7 T	Trichlorofluoromethane	0.430	0.384	10.7	79	0.00
8 T	Diethyl Ether	0.352	0.337	4.3	93	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.469	0.477	-1.7	96	0.00
10 T	Methyl Iodide	0.755	0.748	0.9	95	0.00
11 T	Tert butyl alcohol	0.056	0.049	12.5	86	-0.01
12 CM	1,1-Dichloroethene	0.537	0.550	-2.4#	96	0.00
13 T	Acrolein	0.094	0.085	9.6	88	0.00
14 T	Allyl chloride	1.034	1.050	-1.5	95	0.00
15 T	Acrylonitrile	0.203	0.187	7.9	87	0.00
16 T	Acetone	0.193	0.206	-6.7	104	0.00
17 T	Carbon Disulfide	1.588	1.648	-3.8	96	0.00
18 T	Methyl Acetate	0.478	0.417	12.8	85	0.00
19 T	Methyl tert-butyl Ether	1.133	1.115	1.6	92	0.00
20 T	Methylene Chloride	0.690	0.644	6.7	95	0.00
21 T	trans-1,2-Dichloroethene	0.615	0.612	0.5	95	0.00
22 T	Diisopropyl ether	2.104	2.105	-0.0	95	0.00
23 T	Vinyl Acetate	1.442	1.412	2.1	91	0.00
24 P	1,1-Dichloroethane	1.153	1.157	-0.3	95	0.00
25 T	2-Butanone	0.284	0.267	6.0	90	0.00
26 T	2,2-Dichloropropane	0.643	0.647	-0.6	98	0.00
27 T	cis-1,2-Dichloroethene	0.734	0.737	-0.4	95	0.00
28 T	Bromochloromethane	0.545	0.521	4.4	98	0.00
29 T	Tetrahydrofuran	0.180	0.162	10.0	84	0.00
30 C	Chloroform	1.129	1.128	0.1#	96	0.00
31 T	Cyclohexane	1.066	1.033	3.1	95	0.00
32 T	1,1,1-Trichloroethane	0.806	0.818	-1.5	94	0.00
33 S	1,2-Dichloroethane-d4	0.645	0.618	4.2	96	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
35 S	Dibromofluoromethane	0.299	0.293	2.0	100	0.00
36 T	1,1-Dichloropropene	0.441	0.442	-0.2	94	0.00
37 T	Ethyl Acetate	0.328	0.307	6.4	89	0.00
38 T	Carbon Tetrachloride	0.392	0.390	0.5	95	0.00
39 T	Methylcyclohexane	0.571	0.573	-0.4	93	0.00
40 TM	Benzene	1.420	1.398	1.5	95	0.00
41 T	Methacrylonitrile	0.180	0.173	3.9	90	0.00
42 TM	1,2-Dichloroethane	0.417	0.397	4.8	92	0.00
43 T	Isopropyl Acetate	0.581	0.541	6.9	87	0.00
44 TM	Trichloroethene	0.331	0.317	4.2	92	0.00
45 C	1,2-Dichloropropane	0.354	0.348	1.7#	95	0.00
46 T	Dibromomethane	0.207	0.197	4.8	91	0.00
47 T	Bromodichloromethane	0.471	0.467	0.8	94	0.00
48 T	Methyl methacrylate	0.276	0.247	10.5	80	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032415.D
 Acq On : 11 Nov 2025 08:31
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 12 03:39:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.003	0.002	33.3#	79	0.00
50 S	Toluene-d8	1.148	1.160	-1.0	100	0.00
51 T	4-Methyl-2-Pentanone	0.321	0.295	8.1	85	0.00
52 CM	Toluene	0.877	0.857	2.3#	93	0.00
53 T	t-1,3-Dichloropropene	0.486	0.482	0.8	93	0.00
54 T	cis-1,3-Dichloropropene	0.562	0.559	0.5	94	0.00
55 T	1,1,2-Trichloroethane	0.284	0.267	6.0	89	0.00
56 T	Ethyl methacrylate	0.435	0.413	5.1	88	0.00
57 T	1,3-Dichloropropane	0.506	0.482	4.7	90	0.00
58 T	2-Chloroethyl Vinyl ether	0.232	0.224	3.4	96	0.00
59 T	2-Hexanone	0.235	0.217	7.7	87	0.00
60 T	Dibromochloromethane	0.317	0.315	0.6	96	0.00
61 T	1,2-Dibromoethane	0.276	0.262	5.1	91	0.00
62 S	4-Bromofluorobenzene	0.434	0.421	3.0	99	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
64 T	Tetrachloroethene	0.296	0.304	-2.7	97	0.00
65 PM	Chlorobenzene	1.078	1.089	-1.0	92	0.00
66 T	1,1,1,2-Tetrachloroethane	0.334	0.336	-0.6	95	0.00
67 C	Ethyl Benzene	1.865	1.926	-3.3#	95	0.00
68 T	m/p-Xylenes	0.700	0.720	-2.9	94	0.00
69 T	o-Xylene	0.670	0.690	-3.0	97	0.00
70 T	Styrene	1.153	1.208	-4.8	96	0.00
71 P	Bromoform	0.198	0.193	2.5	91	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
73 T	Isopropylbenzene	3.672	3.829	-4.3	94	0.00
74 T	N-amyl acetate	1.276	1.250	2.0	87	0.00
75 P	1,1,2,2-Tetrachloroethane	0.871	0.837	3.9	88	0.00
76 T	1,2,3-Trichloropropane	0.686	0.597	13.0	87	0.00
77 T	Bromobenzene	0.869	0.872	-0.3	90	0.00
78 T	n-propylbenzene	4.472	4.626	-3.4	94	0.00
79 T	2-Chlorotoluene	2.730	2.814	-3.1	95	0.00
80 T	1,3,5-Trimethylbenzene	3.030	3.265	-7.8	98	0.00
81 T	trans-1,4-Dichloro-2-butene	0.299	0.297	0.7	88	0.00
82 T	4-Chlorotoluene	2.839	2.915	-2.7	94	0.00
83 T	tert-Butylbenzene	2.635	2.737	-3.9	93	0.00
84 T	1,2,4-Trimethylbenzene	3.081	3.209	-4.2	95	0.00
85 T	sec-Butylbenzene	3.925	4.120	-5.0	96	0.00
86 T	p-Isopropyltoluene	3.241	3.364	-3.8	95	0.00
87 T	1,3-Dichlorobenzene	1.648	1.714	-4.0	97	0.00
88 T	1,4-Dichlorobenzene	1.689	1.688	0.1	93	0.00
89 T	n-Butylbenzene	3.166	3.326	-5.1	96	0.00
90 T	Hexachloroethane	0.584	0.597	-2.2	93	0.00
91 T	1,2-Dichlorobenzene	1.513	1.494	1.3	94	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.150	0.139	7.3	85	0.00
93 T	1,2,4-Trichlorobenzene	0.963	0.953	1.0	90	0.00
94 T	Hexachlorobutadiene	0.400	0.408	-2.0	94	0.00
95 T	Naphthalene	2.401	2.319	3.4	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032415.D
Acq On : 11 Nov 2025 08:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Nov 12 03:39:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
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	0.874	0.833	4.7	90	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032415.D
 Acq On : 11 Nov 2025 08:31
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 12 03:39:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	94	0.00
2 T	Dichlorodifluoromethane	50.000	45.384	9.2	87	0.00
3 P	Chloromethane	50.000	46.869	6.3	94	0.00
4 C	Vinyl Chloride	50.000	50.876	-1.8#	98	0.00
5 T	Bromomethane	50.000	50.709	-1.4	98	0.00
6 T	Chloroethane	50.000	49.465	1.1	94	0.00
7 T	Trichlorofluoromethane	50.000	44.672	10.7	79	0.00
8 T	Diethyl Ether	50.000	47.845	4.3	93	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	50.895	-1.8	96	0.00
10 T	Methyl Iodide	50.000	49.554	0.9	95	0.00
11 T	Tert butyl alcohol	250.000	219.702	12.1	86	-0.01
12 CM	1,1-Dichloroethene	50.000	51.143	-2.3#	96	0.00
13 T	Acrolein	250.000	226.103	9.6	88	0.00
14 T	Allyl chloride	50.000	50.778	-1.6	95	0.00
15 T	Acrylonitrile	250.000	230.141	7.9	87	0.00
16 T	Acetone	250.000	266.708	-6.7	104	0.00
17 T	Carbon Disulfide	50.000	51.887	-3.8	96	0.00
18 T	Methyl Acetate	50.000	43.653	12.7	85	0.00
19 T	Methyl tert-butyl Ether	50.000	49.206	1.6	92	0.00
20 T	Methylene Chloride	50.000	46.663	6.7	95	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.820	0.4	95	0.00
22 T	Diisopropyl ether	50.000	50.019	-0.0	95	0.00
23 T	Vinyl Acetate	250.000	244.919	2.0	91	0.00
24 P	1,1-Dichloroethane	50.000	50.183	-0.4	95	0.00
25 T	2-Butanone	250.000	234.918	6.0	90	0.00
26 T	2,2-Dichloropropane	50.000	50.386	-0.8	98	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.163	-0.3	95	0.00
28 T	Bromochloromethane	50.000	47.810	4.4	98	0.00
29 T	Tetrahydrofuran	250.000	224.618	10.2	84	0.00
30 C	Chloroform	50.000	49.951	0.1#	96	0.00
31 T	Cyclohexane	50.000	48.449	3.1	95	0.00
32 T	1,1,1-Trichloroethane	50.000	50.745	-1.5	94	0.00
33 S	1,2-Dichloroethane-d4	50.000	47.973	4.1	96	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	97	0.00
35 S	Dibromofluoromethane	50.000	49.005	2.0	100	0.00
36 T	1,1-Dichloropropene	50.000	50.055	-0.1	94	0.00
37 T	Ethyl Acetate	50.000	46.863	6.3	89	0.00
38 T	Carbon Tetrachloride	50.000	49.749	0.5	95	0.00
39 T	Methylcyclohexane	50.000	50.160	-0.3	93	0.00
40 TM	Benzene	50.000	49.201	1.6	95	0.00
41 T	Methacrylonitrile	50.000	48.053	3.9	90	0.00
42 TM	1,2-Dichloroethane	50.000	47.591	4.8	92	0.00
43 T	Isopropyl Acetate	50.000	46.608	6.8	87	0.00
44 TM	Trichloroethene	50.000	47.946	4.1	92	0.00
45 C	1,2-Dichloropropane	50.000	49.229	1.5#	95	0.00
46 T	Dibromomethane	50.000	47.650	4.7	91	0.00
47 T	Bromodichloromethane	50.000	49.526	0.9	94	0.00
48 T	Methyl methacrylate	50.000	44.740	10.5	80	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032415.D
 Acq On : 11 Nov 2025 08:31
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 12 03:39:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 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	857.939	14.2	79	0.00
50 S	Toluene-d8	50.000	50.490	-1.0	100	0.00
51 T	4-Methyl-2-Pentanone	250.000	229.535	8.2	85	0.00
52 CM	Toluene	50.000	48.833	2.3#	93	0.00
53 T	t-1,3-Dichloropropene	50.000	49.637	0.7	93	0.00
54 T	cis-1,3-Dichloropropene	50.000	49.780	0.4	94	0.00
55 T	1,1,2-Trichloroethane	50.000	47.026	5.9	89	0.00
56 T	Ethyl methacrylate	50.000	47.436	5.1	88	0.00
57 T	1,3-Dichloropropane	50.000	47.577	4.8	90	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	241.283	3.5	96	0.00
59 T	2-Hexanone	250.000	230.859	7.7	87	0.00
60 T	Dibromochloromethane	50.000	49.716	0.6	96	0.00
61 T	1,2-Dibromoethane	50.000	47.486	5.0	91	0.00
62 S	4-Bromofluorobenzene	50.000	48.486	3.0	99	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	96	0.00
64 T	Tetrachloroethene	50.000	51.307	-2.6	97	0.00
65 PM	Chlorobenzene	50.000	50.526	-1.1	92	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.327	-0.7	95	0.00
67 C	Ethyl Benzene	50.000	51.634	-3.3#	95	0.00
68 T	m/p-Xylenes	100.000	102.855	-2.9	94	0.00
69 T	o-Xylene	50.000	51.478	-3.0	97	0.00
70 T	Styrene	50.000	52.382	-4.8	96	0.00
71 P	Bromoform	50.000	48.729	2.5	91	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
73 T	Isopropylbenzene	50.000	52.130	-4.3	94	0.00
74 T	N-amyl acetate	50.000	48.966	2.1	87	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.022	4.0	88	0.00
76 T	1,2,3-Trichloropropane	50.000	43.527	12.9	87	0.00
77 T	Bromobenzene	50.000	50.174	-0.3	90	0.00
78 T	n-propylbenzene	50.000	51.716	-3.4	94	0.00
79 T	2-Chlorotoluene	50.000	51.541	-3.1	95	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.888	-7.8	98	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.638	0.7	88	0.00
82 T	4-Chlorotoluene	50.000	51.332	-2.7	94	0.00
83 T	tert-Butylbenzene	50.000	51.933	-3.9	93	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.065	-4.1	95	0.00
85 T	sec-Butylbenzene	50.000	52.490	-5.0	96	0.00
86 T	p-Isopropyltoluene	50.000	51.904	-3.8	95	0.00
87 T	1,3-Dichlorobenzene	50.000	51.987	-4.0	97	0.00
88 T	1,4-Dichlorobenzene	50.000	49.965	0.1	93	0.00
89 T	n-Butylbenzene	50.000	52.529	-5.1	96	0.00
90 T	Hexachloroethane	50.000	51.075	-2.2	93	0.00
91 T	1,2-Dichlorobenzene	50.000	49.379	1.2	94	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	46.296	7.4	85	0.00
93 T	1,2,4-Trichlorobenzene	50.000	49.463	1.1	90	0.00
94 T	Hexachlorobutadiene	50.000	51.047	-2.1	94	0.00
95 T	Naphthalene	50.000	48.288	3.4	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032415.D
Acq On : 11 Nov 2025 08:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Nov 12 03:39:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	47.624	4.8	90	0.00

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>REMI02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3586</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>11/12/2025 10:01</u>
Lab File ID:	<u>VY023752.D</u>	Init. Calib. Date(s):	<u>11/04/2025 11/04/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>09:19 11:27</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.328	0.287		-12.5	20
Chloromethane	0.459	0.395	0.1	-13.94	20
Vinyl Chloride	0.598	0.535		-10.53	20
Bromomethane	0.503	0.446		-11.33	20
Chloroethane	0.413	0.388		-6.05	20
Trichlorofluoromethane	0.842	0.835		-0.83	20
1,1,2-Trichlorotrifluoroethane	0.464	0.460		-0.86	20
1,1-Dichloroethene	0.447	0.446		-0.22	20
Acetone	0.106	0.126		18.87	20
Carbon Disulfide	1.371	1.308		-4.59	20
Methyl tert-butyl Ether	1.036	1.124		8.49	20
Methyl Acetate	0.234	0.221		-5.56	20
Methylene Chloride	0.512	0.493		-3.71	20
trans-1,2-Dichloroethene	0.504	0.503		-0.2	20
1,1-Dichloroethane	0.807	0.804	0.1	-0.37	20
Cyclohexane	0.703	0.689		-1.99	20
2-Butanone	0.123	0.140		13.82	20
Carbon Tetrachloride	0.492	0.519		5.49	20
cis-1,2-Dichloroethene	0.575	0.587		2.09	20
Bromochloromethane	0.309	0.311		0.65	20
Chloroform	0.901	0.898		-0.33	20
1,1,1-Trichloroethane	0.805	0.810		0.62	20
Methylcyclohexane	0.534	0.575		7.68	20
Benzene	1.316	1.358		3.19	20
1,2-Dichloroethane	0.333	0.350		5.11	20
Trichloroethene	0.378	0.389		2.91	20
1,2-Dichloropropane	0.290	0.301		3.79	20
Bromodichloromethane	0.454	0.480		5.73	20
4-Methyl-2-Pentanone	0.162	0.190		17.28	20
Toluene	0.840	0.900		7.14	20
t-1,3-Dichloropropene	0.384	0.422		9.9	20
cis-1,3-Dichloropropene	0.460	0.494		7.39	20
1,1,2-Trichloroethane	0.241	0.260		7.88	20
2-Hexanone	0.118	0.143		21.19	20
Dibromochloromethane	0.330	0.361		9.39	20
1,2-Dibromoethane	0.226	0.247		9.29	20
Tetrachloroethene	0.520	0.541		4.04	20
Chlorobenzene	1.089	1.147	0.3	5.33	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>REMI02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3586</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>11/12/2025</u> <u>10:01</u>
Lab File ID:	<u>VY023752.D</u>	Init. Calib. Date(s):	<u>11/04/2025</u> <u>11/04/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>09:19</u> <u>11:27</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.762	1.933		9.7	20
m/p-Xylenes	0.704	0.769		9.23	20
o-Xylene	0.651	0.718		10.29	20
Styrene	1.074	1.200		11.73	20
Bromoform	0.225	0.259	0.1	15.11	20
Isopropylbenzene	3.344	3.789		13.31	20
1,1,2,2-Tetrachloroethane	0.534	0.601	0.3	12.55	20
1,3-Dichlorobenzene	1.707	1.800		5.45	20
1,4-Dichlorobenzene	1.677	1.757		4.77	20
1,2-Dichlorobenzene	1.471	1.588		7.95	20
1,2-Dibromo-3-Chloropropane	0.082	0.093		13.41	20
1,2,4-Trichlorobenzene	0.842	0.930		10.45	20
1,2,3-Trichlorobenzene	0.703	0.793		12.8	20
1,2-Dichloroethane-d4	0.427	0.419		-1.87	20
Dibromofluoromethane	0.312	0.321		2.88	20
Toluene-d8	1.164	1.193		2.49	20
4-Bromofluorobenzene	0.376	0.417		10.9	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
 Data File : VY023752.D
 Acq On : 12 Nov 2025 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/14/2025
 Supervised By :Mahesh Dadoda 11/14/2025

Quant Time: Nov 14 01:18:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	542463	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	778548	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	693308	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	345261	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	227103	49.079	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	98.160%		
35) Dibromofluoromethane	7.634	113	249654	51.312	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	102.620%		
50) Toluene-d8	10.109	98	929077	51.262	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	102.520%		
62) 4-Bromofluorobenzene	12.408	95	325031	55.455	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	110.920%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	155853	43.768	ug/l	98
3) Chloromethane	2.074	50	214055	42.957	ug/l	99
4) Vinyl Chloride	2.208	62	290034	44.730	ug/l	100
5) Bromomethane	2.598	94	241839	44.340	ug/l	99
6) Chloroethane	2.739	64	210632	47.001	ug/l	98
7) Trichlorofluoromethane	3.062	101	452930	49.598	ug/l	99
8) Diethyl Ether	3.458	74	127491	52.061	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.824	101	249419	49.573	ug/l	98
10) Methyl Iodide	4.013	142	311272	52.391	ug/l	100
11) Tert butyl alcohol	4.866	59	79248	265.604	ug/l #	89
12) 1,1-Dichloroethene	3.793	96	241841	49.898	ug/l	99
13) Acrolein	3.659	56	56726	147.917	ug/l	98
14) Allyl chloride	4.391	41	296624	50.281	ug/l	99
15) Acrylonitrile	5.061	53	256549	274.130	ug/l	99
16) Acetone	3.873	43	340696	296.206	ug/l	99
17) Carbon Disulfide	4.110	76	709324	47.684	ug/l	99
18) Methyl Acetate	4.391	43	119901	47.261	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	609991	54.277	ug/l	98
20) Methylene Chloride	4.622	84	267307	48.141	ug/l	98
21) trans-1,2-Dichloroethene	5.122	96	272626	49.888	ug/l	97
22) Diisopropyl ether	6.025	45	689356	52.442	ug/l	99
23) Vinyl Acetate	5.964	43	1980312	282.304	ug/l	100
24) 1,1-Dichloroethane	5.921	63	436028	49.791	ug/l	100
25) 2-Butanone	6.896	43	378488	284.611	ug/l	99
26) 2,2-Dichloropropane	6.890	77	405422	50.330	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	318192	50.982	ug/l	99
28) Bromochloromethane	7.250	49	168834	50.352	ug/l	99
29) Tetrahydrofuran	7.262	42	201776	284.902	ug/l	98
30) Chloroform	7.427	83	486957	49.839	ug/l	99
31) Cyclohexane	7.707	56	373665	48.997	ug/l	99
32) 1,1,1-Trichloroethane	7.622	97	439582	50.338	ug/l	100
36) 1,1-Dichloropropene	7.841	75	336435	51.748	ug/l	100
37) Ethyl Acetate	6.988	43	144553	57.434	ug/l	100
38) Carbon Tetrachloride	7.823	117	404231	52.770	ug/l	97
39) Methylcyclohexane	9.109	83	447873	53.914	ug/l	99
40) Benzene	8.085	78	1057576	51.606	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
 Data File : VY023752.D
 Acq On : 12 Nov 2025 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/14/2025
 Supervised By :Mahesh Dadoda 11/14/2025

Quant Time: Nov 14 01:18:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	73481m	53.487	ug/l	
42) 1,2-Dichloroethane	8.158	62	272360	52.532	ug/l	99
43) Isopropyl Acetate	8.201	43	269125	56.911	ug/l	99
44) Trichloroethene	8.866	130	303172	51.507	ug/l	99
45) 1,2-Dichloropropane	9.146	63	234620	51.875	ug/l	97
46) Dibromomethane	9.231	93	151745	54.149	ug/l	99
47) Bromodichloromethane	9.426	83	373574	52.874	ug/l	99
48) Methyl methacrylate	9.225	41	127862	57.229	ug/l	98
49) 1,4-Dioxane	9.231	88	32778	1142.921	ug/l	94
51) 4-Methyl-2-Pentanone	9.999	43	737994	293.452	ug/l	99
52) Toluene	10.170	92	701055	53.583	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	328830	55.004	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	384462	53.676	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	202168	53.983	ug/l	98
56) Ethyl methacrylate	10.438	69	250544	60.719	ug/l	98
57) 1,3-Dichloropropane	10.719	76	318852	53.676	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	517745	273.439	ug/l	100
59) 2-Hexanone	10.762	43	556162	303.122	ug/l	99
60) Dibromochloromethane	10.914	129	281149	54.637	ug/l	99
61) 1,2-Dibromoethane	11.018	107	192335	54.724	ug/l	99
64) Tetrachloroethene	10.646	164	375348	52.014	ug/l	99
65) Chlorobenzene	11.444	112	795130	52.681	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	283711	53.158	ug/l	99
67) Ethyl Benzene	11.518	91	1340142	54.861	ug/l	98
68) m/p-Xylenes	11.627	106	1066846	109.309	ug/l	99
69) o-Xylene	11.956	106	497753	55.171	ug/l	99
70) Styrene	11.969	104	831999	55.893	ug/l	100
71) Bromoform	12.133	173	179488	57.582	ug/l	99
73) Isopropylbenzene	12.255	105	1308186	56.652	ug/l	99
74) N-amyl acetate	12.072	43	239771	61.329	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	207541	56.274	ug/l	98
76) 1,2,3-Trichloropropane	12.560	75	135408m	48.460	ug/l	
77) Bromobenzene	12.536	156	330972	55.256	ug/l	98
78) n-propylbenzene	12.597	91	1536805	56.580	ug/l	100
79) 2-Chlorotoluene	12.682	91	874697	55.496	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	1064739	56.750	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	71767	58.044	ug/l	99
82) 4-Chlorotoluene	12.779	91	898820	55.295	ug/l	100
83) tert-Butylbenzene	12.999	119	934952	54.715	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	1032214	55.547	ug/l	99
85) sec-Butylbenzene	13.176	105	1362855	55.296	ug/l	100
86) p-Isopropyltoluene	13.292	119	1155519	55.382	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	621543	52.721	ug/l	100
88) 1,4-Dichlorobenzene	13.371	146	606732	52.392	ug/l	99
89) n-Butylbenzene	13.615	91	1022377	56.351	ug/l	99
90) Hexachloroethane	13.883	117	238901	53.282	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	548166	53.955	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	32148	56.614	ug/l	99
93) 1,2,4-Trichlorobenzene	14.919	180	321156	55.264	ug/l	100
94) Hexachlorobutadiene	15.023	225	202421	53.162	ug/l	99
95) Naphthalene	15.145	128	530711	52.002	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	273690	56.369	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
Data File : VY023752.D
Acq On : 12 Nov 2025 10:01
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/14/2025
Supervised By :Mahesh Dadoda 11/14/2025

Quant Time: Nov 14 01:18:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:41:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
 Data File : VY023752.D
 Acq On : 12 Nov 2025 10:01
 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 14 01:18:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	94	0.00
2 T	Dichlorodifluoromethane	0.328	0.287	12.5	98	0.00
3 P	Chloromethane	0.459	0.395	13.9	90	0.00
4 C	Vinyl Chloride	0.598	0.535	10.5#	92	0.00
5 T	Bromomethane	0.503	0.446	11.3	95	0.00
6 T	Chloroethane	0.413	0.388	6.1	95	0.00
7 T	Trichlorofluoromethane	0.842	0.835	0.8	101	0.00
8 T	Diethyl Ether	0.226	0.235	-4.0	104	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.464	0.460	0.9	100	0.00
10 T	Methyl Iodide	0.548	0.574	-4.7	94	0.00
11 T	Tert butyl alcohol	0.028	0.029	-3.6	120	0.00
12 CM	1,1-Dichloroethene	0.447	0.446	0.2#	100	0.00
13 T	Acrolein	0.035	0.021	40.0#	67	0.00
14 T	Allyl chloride	0.544	0.547	-0.6	98	0.00
15 T	Acrylonitrile	0.086	0.095	-10.5	110	0.00
16 T	Acetone	0.106	0.126	-18.9	125	0.00
17 T	Carbon Disulfide	1.371	1.308	4.6	96	0.00
18 T	Methyl Acetate	0.234	0.221	5.6	99	0.00
19 T	Methyl tert-butyl Ether	1.036	1.124	-8.5	105	0.00
20 T	Methylene Chloride	0.512	0.493	3.7	101	0.00
21 T	trans-1,2-Dichloroethene	0.504	0.503	0.2	97	0.00
22 T	Diisopropyl ether	1.212	1.271	-4.9	98	0.00
23 T	Vinyl Acetate	0.647	0.730	-12.8	105	0.00
24 P	1,1-Dichloroethane	0.807	0.804	0.4	98	0.00
25 T	2-Butanone	0.123	0.140	-13.8	118	0.00
26 T	2,2-Dichloropropane	0.742	0.747	-0.7	99	0.00
27 T	cis-1,2-Dichloroethene	0.575	0.587	-2.1	99	0.00
28 T	Bromochloromethane	0.309	0.311	-0.6	101	0.00
29 T	Tetrahydrofuran	0.065	0.074	-13.8	113	0.00
30 C	Chloroform	0.901	0.898	0.3#	98	0.00
31 T	Cyclohexane	0.703	0.689	2.0	98	0.00
32 T	1,1,1-Trichloroethane	0.805	0.810	-0.6	99	0.00
33 S	1,2-Dichloroethane-d4	0.427	0.419	1.9	97	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35 S	Dibromofluoromethane	0.312	0.321	-2.9	95	0.00
36 T	1,1-Dichloropropene	0.418	0.432	-3.3	97	0.00
37 T	Ethyl Acetate	0.162	0.186	-14.8	110	0.00
38 T	Carbon Tetrachloride	0.492	0.519	-5.5	100	0.00
39 T	Methylcyclohexane	0.534	0.575	-7.7	98	0.00
40 TM	Benzene	1.316	1.358	-3.2	97	0.00
41 T	Methacrylonitrile	0.088	0.094	-6.8	103	0.00
42 TM	1,2-Dichloroethane	0.333	0.350	-5.1	101	0.00
43 T	Isopropyl Acetate	0.304	0.346	-13.8	108	0.00
44 TM	Trichloroethene	0.378	0.389	-2.9	98	0.00
45 C	1,2-Dichloropropane	0.290	0.301	-3.8#	98	0.00
46 T	Dibromomethane	0.180	0.195	-8.3	104	0.00
47 T	Bromodichloromethane	0.454	0.480	-5.7	100	0.00
48 T	Methyl methacrylate	0.143	0.164	-14.7	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
 Data File : VY023752.D
 Acq On : 12 Nov 2025 10:01
 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 14 01:18:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 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	108	0.00
50 S	Toluene-d8	1.164	1.193	-2.5	93	0.00
51 T	4-Methyl-2-Pentanone	0.162	0.190	-17.3	111	0.00
52 CM	Toluene	0.840	0.900	-7.1#	97	0.00
53 T	t-1,3-Dichloropropene	0.384	0.422	-9.9	101	0.00
54 T	cis-1,3-Dichloropropene	0.460	0.494	-7.4	98	0.00
55 T	1,1,2-Trichloroethane	0.241	0.260	-7.9	102	0.00
56 T	Ethyl methacrylate	0.265	0.322	-21.5	107	0.00
57 T	1,3-Dichloropropane	0.381	0.410	-7.6	100	0.00
58 T	2-Chloroethyl Vinyl ether	0.122	0.133	-9.0	96	0.00
59 T	2-Hexanone	0.118	0.143	-21.2	115	0.00
60 T	Dibromochloromethane	0.330	0.361	-9.4	102	0.00
61 T	1,2-Dibromoethane	0.226	0.247	-9.3	103	0.00
62 S	4-Bromofluorobenzene	0.376	0.417	-10.9	99	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
64 T	Tetrachloroethene	0.520	0.541	-4.0	98	0.00
65 PM	Chlorobenzene	1.088	1.147	-5.4	100	0.00
66 T	1,1,1,2-Tetrachloroethane	0.385	0.409	-6.2	101	0.00
67 C	Ethyl Benzene	1.762	1.933	-9.7#	99	0.00
68 T	m/p-Xylenes	0.704	0.769	-9.2	98	0.00
69 T	o-Xylene	0.651	0.718	-10.3	99	0.00
70 T	Styrene	1.074	1.200	-11.7	99	0.00
71 P	Bromoform	0.225	0.259	-15.1	110	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73 T	Isopropylbenzene	3.344	3.789	-13.3	100	0.00
74 T	N-amyl acetate	0.566	0.694	-22.6	110	0.00
75 P	1,1,2,2-Tetrachloroethane	0.534	0.601	-12.5	109	0.00
76 T	1,2,3-Trichloropropane	0.405	0.392	3.2	96	0.00
77 T	Bromobenzene	0.867	0.959	-10.6	101	0.00
78 T	n-propylbenzene	3.933	4.451	-13.2	99	0.00
79 T	2-Chlorotoluene	2.283	2.533	-11.0	99	0.00
80 T	1,3,5-Trimethylbenzene	2.717	3.084	-13.5	99	0.00
81 T	trans-1,4-Dichloro-2-butene	0.179	0.208	-16.2	110	0.00
82 T	4-Chlorotoluene	2.354	2.603	-10.6	99	0.00
83 T	tert-Butylbenzene	2.475	2.708	-9.4	96	0.00
84 T	1,2,4-Trimethylbenzene	2.691	2.990	-11.1	97	0.00
85 T	sec-Butylbenzene	3.569	3.947	-10.6	98	0.00
86 T	p-Isopropyltoluene	3.022	3.347	-10.8	96	0.00
87 T	1,3-Dichlorobenzene	1.707	1.800	-5.4	97	0.00
88 T	1,4-Dichlorobenzene	1.677	1.757	-4.8	97	0.00
89 T	n-Butylbenzene	2.627	2.961	-12.7	98	0.00
90 T	Hexachloroethane	0.649	0.692	-6.6	99	0.00
91 T	1,2-Dichlorobenzene	1.471	1.588	-8.0	100	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.082	0.093	-13.4	111	0.00
93 T	1,2,4-Trichlorobenzene	0.842	0.930	-10.5	99	0.00
94 T	Hexachlorobutadiene	0.551	0.586	-6.4	97	0.00
95 T	Naphthalene	1.257	1.537	-22.3	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
Data File : VY023752.D
Acq On : 12 Nov 2025 10:01
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 14 01:18:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:41:50 2025
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	0.703	0.793	-12.8	101	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
 Data File : VY023752.D
 Acq On : 12 Nov 2025 10:01
 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 14 01:18:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	94	0.00
2 T	Dichlorodifluoromethane	50.000	43.768	12.5	98	0.00
3 P	Chloromethane	50.000	42.957	14.1	90	0.00
4 C	Vinyl Chloride	50.000	44.730	10.5#	92	0.00
5 T	Bromomethane	50.000	44.340	11.3	95	0.00
6 T	Chloroethane	50.000	47.001	6.0	95	0.00
7 T	Trichlorofluoromethane	50.000	49.598	0.8	101	0.00
8 T	Diethyl Ether	50.000	52.061	-4.1	104	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.573	0.9	100	0.00
10 T	Methyl Iodide	50.000	52.391	-4.8	94	0.00
11 T	Tert butyl alcohol	250.000	265.604	-6.2	120	0.00
12 CM	1,1-Dichloroethene	50.000	49.898	0.2#	100	0.00
13 T	Acrolein	250.000	147.917	40.8#	67	0.00
14 T	Allyl chloride	50.000	50.281	-0.6	98	0.00
15 T	Acrylonitrile	250.000	274.130	-9.7	110	0.00
16 T	Acetone	250.000	296.206	-18.5	125	0.00
17 T	Carbon Disulfide	50.000	47.684	4.6	96	0.00
18 T	Methyl Acetate	50.000	47.261	5.5	99	0.00
19 T	Methyl tert-butyl Ether	50.000	54.277	-8.6	105	0.00
20 T	Methylene Chloride	50.000	48.141	3.7	101	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.888	0.2	97	0.00
22 T	Diisopropyl ether	50.000	52.442	-4.9	98	0.00
23 T	Vinyl Acetate	250.000	282.304	-12.9	105	0.00
24 P	1,1-Dichloroethane	50.000	49.791	0.4	98	0.00
25 T	2-Butanone	250.000	284.611	-13.8	118	0.00
26 T	2,2-Dichloropropane	50.000	50.330	-0.7	99	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.982	-2.0	99	0.00
28 T	Bromochloromethane	50.000	50.352	-0.7	101	0.00
29 T	Tetrahydrofuran	250.000	284.902	-14.0	113	0.00
30 C	Chloroform	50.000	49.839	0.3#	98	0.00
31 T	Cyclohexane	50.000	48.997	2.0	98	0.00
32 T	1,1,1-Trichloroethane	50.000	50.338	-0.7	99	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.079	1.8	97	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35 S	Dibromofluoromethane	50.000	51.312	-2.6	95	0.00
36 T	1,1-Dichloropropene	50.000	51.748	-3.5	97	0.00
37 T	Ethyl Acetate	50.000	57.434	-14.9	110	0.00
38 T	Carbon Tetrachloride	50.000	52.770	-5.5	100	0.00
39 T	Methylcyclohexane	50.000	53.914	-7.8	98	0.00
40 TM	Benzene	50.000	51.606	-3.2	97	0.00
41 T	Methacrylonitrile	50.000	53.487	-7.0	103	0.00
42 TM	1,2-Dichloroethane	50.000	52.532	-5.1	101	0.00
43 T	Isopropyl Acetate	50.000	56.911	-13.8	108	0.00
44 TM	Trichloroethene	50.000	51.507	-3.0	98	0.00
45 C	1,2-Dichloropropane	50.000	51.875	-3.8#	98	0.00
46 T	Dibromomethane	50.000	54.149	-8.3	104	0.00
47 T	Bromodichloromethane	50.000	52.874	-5.7	100	0.00
48 T	Methyl methacrylate	50.000	57.229	-14.5	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
 Data File : VY023752.D
 Acq On : 12 Nov 2025 10:01
 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 14 01:18:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 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	1142.921	-14.3	108	0.00
50 S	Toluene-d8	50.000	51.262	-2.5	93	0.00
51 T	4-Methyl-2-Pentanone	250.000	293.452	-17.4	111	0.00
52 CM	Toluene	50.000	53.583	-7.2#	97	0.00
53 T	t-1,3-Dichloropropene	50.000	55.004	-10.0	101	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.676	-7.4	98	0.00
55 T	1,1,2-Trichloroethane	50.000	53.983	-8.0	102	0.00
56 T	Ethyl methacrylate	50.000	60.719	-21.4	107	0.00
57 T	1,3-Dichloropropane	50.000	53.676	-7.4	100	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	273.439	-9.4	96	0.00
59 T	2-Hexanone	250.000	303.122	-21.2	115	0.00
60 T	Dibromochloromethane	50.000	54.637	-9.3	102	0.00
61 T	1,2-Dibromoethane	50.000	54.724	-9.4	103	0.00
62 S	4-Bromofluorobenzene	50.000	55.455	-10.9	99	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	93	0.00
64 T	Tetrachloroethene	50.000	52.014	-4.0	98	0.00
65 PM	Chlorobenzene	50.000	52.681	-5.4	100	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.158	-6.3	101	0.00
67 C	Ethyl Benzene	50.000	54.861	-9.7#	99	0.00
68 T	m/p-Xylenes	100.000	109.309	-9.3	98	0.00
69 T	o-Xylene	50.000	55.171	-10.3	99	0.00
70 T	Styrene	50.000	55.893	-11.8	99	0.00
71 P	Bromoform	50.000	57.582	-15.2	110	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73 T	Isopropylbenzene	50.000	56.652	-13.3	100	0.00
74 T	N-ethyl acetate	50.000	61.329	-22.7	110	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	56.274	-12.5	109	0.00
76 T	1,2,3-Trichloropropane	50.000	48.460	3.1	96	0.00
77 T	Bromobenzene	50.000	55.256	-10.5	101	0.00
78 T	n-propylbenzene	50.000	56.580	-13.2	99	0.00
79 T	2-Chlorotoluene	50.000	55.496	-11.0	99	0.00
80 T	1,3,5-Trimethylbenzene	50.000	56.750	-13.5	99	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	58.044	-16.1	110	0.00
82 T	4-Chlorotoluene	50.000	55.295	-10.6	99	0.00
83 T	tert-Butylbenzene	50.000	54.715	-9.4	96	0.00
84 T	1,2,4-Trimethylbenzene	50.000	55.547	-11.1	97	0.00
85 T	sec-Butylbenzene	50.000	55.296	-10.6	98	0.00
86 T	p-Isopropyltoluene	50.000	55.382	-10.8	96	0.00
87 T	1,3-Dichlorobenzene	50.000	52.721	-5.4	97	0.00
88 T	1,4-Dichlorobenzene	50.000	52.392	-4.8	97	0.00
89 T	n-Butylbenzene	50.000	56.351	-12.7	98	0.00
90 T	Hexachloroethane	50.000	53.282	-6.6	99	0.00
91 T	1,2-Dichlorobenzene	50.000	53.955	-7.9	100	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	56.614	-13.2	111	0.00
93 T	1,2,4-Trichlorobenzene	50.000	55.264	-10.5	99	0.00
94 T	Hexachlorobutadiene	50.000	53.162	-6.3	97	0.00
95 T	Naphthalene	50.000	52.002	-4.0	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
Data File : VY023752.D
Acq On : 12 Nov 2025 10:01
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 14 01:18:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:41:50 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	56.369	-12.7	101	0.00

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



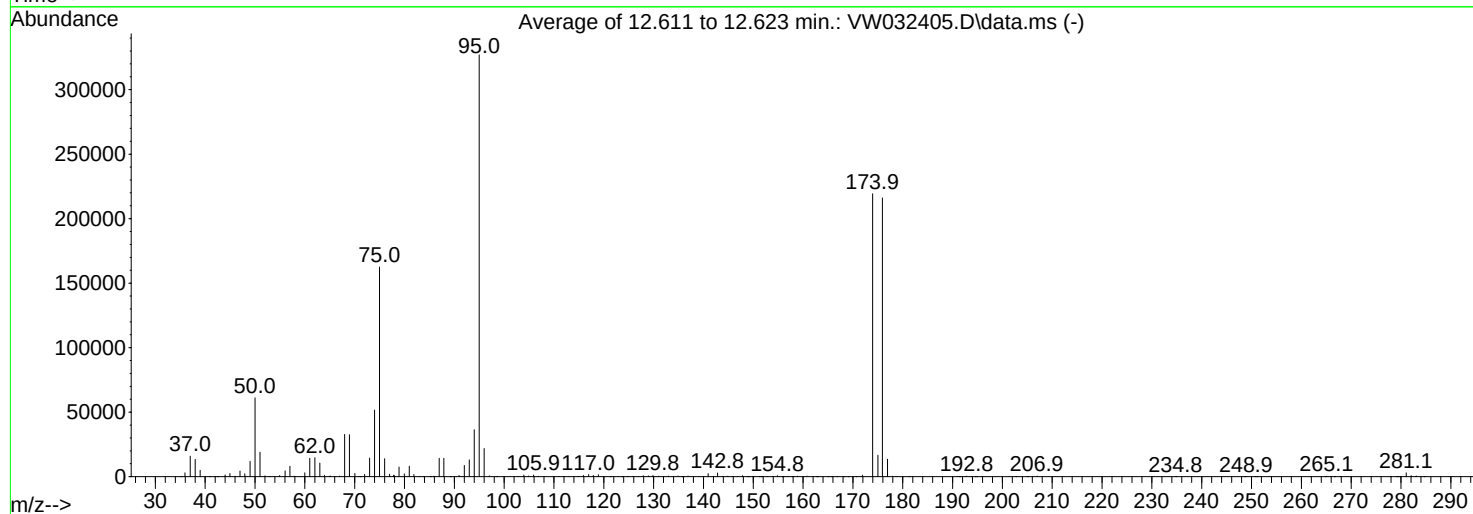
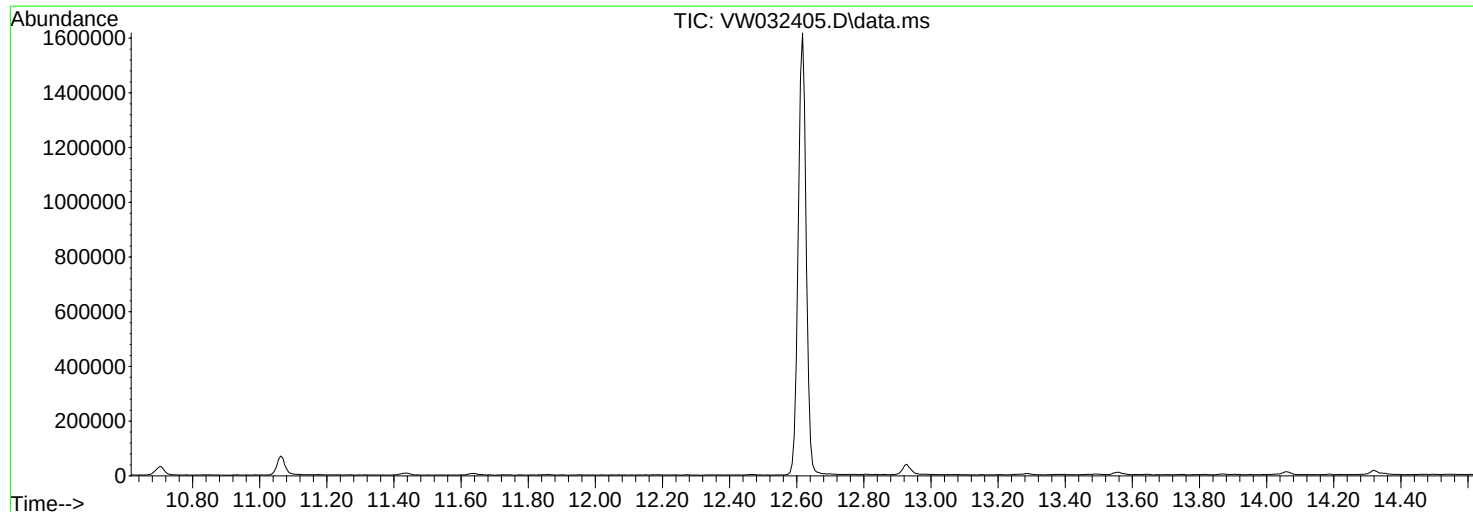
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032405.D
Acq On : 10 Nov 2025 14:20
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Title : SW846 8260
Last Update : Tue Nov 11 03:48:21 2025



AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1750

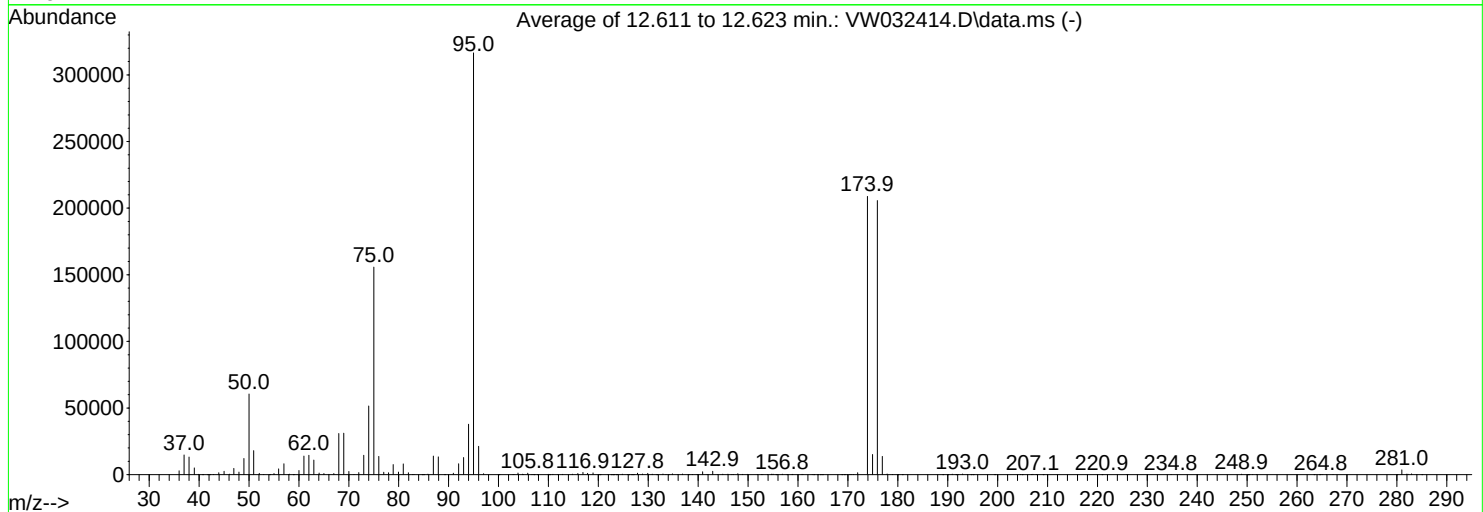
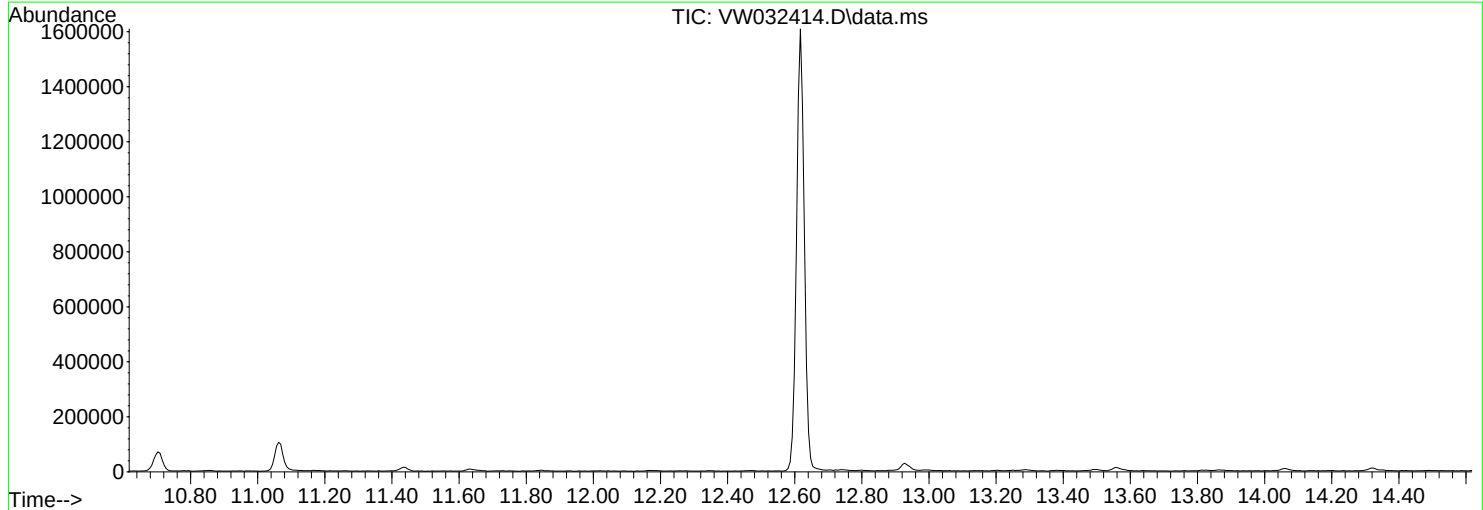
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	18.7	61165	PASS
75	95	30	60	49.7	162496	PASS
95	95	100	100	100.0	326997	PASS
96	95	5	9	6.7	21816	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	67.1	219371	PASS
175	174	5	9	7.6	16661	PASS
176	174	95	101	98.5	216149	PASS
177	176	5	9	6.3	13512	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032414.D
Acq On : 11 Nov 2025 07:26
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Title : SW846 8260
Last Update : Tue Nov 11 03:48:21 2025



AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1748

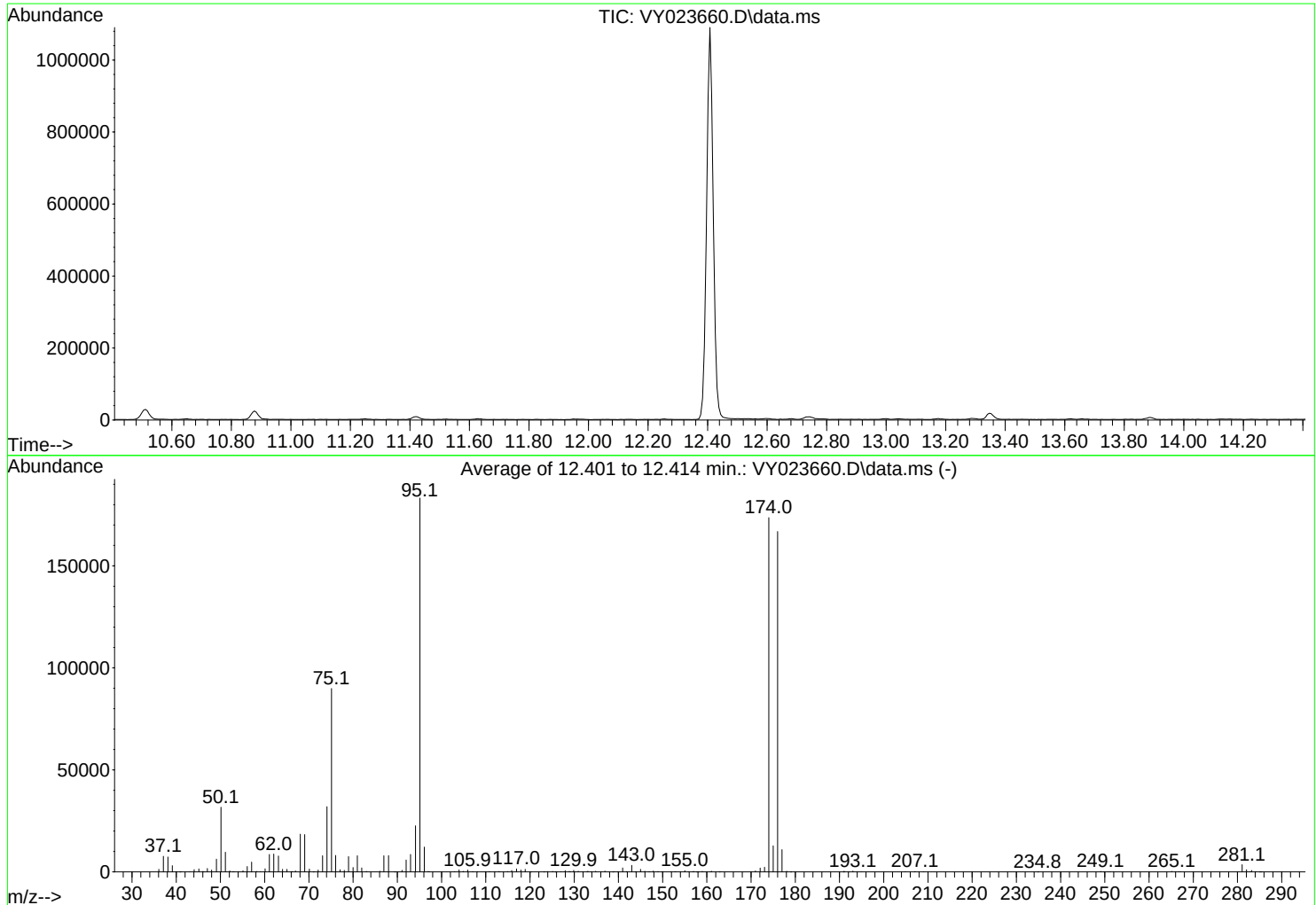
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	60565	PASS
75	95	30	60	49.2	155768	PASS
95	95	100	100	100.0	316565	PASS
96	95	5	9	6.7	21304	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.0	208832	PASS
175	174	5	9	7.2	15131	PASS
176	174	95	101	98.5	205696	PASS
177	176	5	9	6.6	13673	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110425\
Data File : VY023660.D
Acq On : 04 Nov 2025 08:11
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\82Y110425S.M
Title : SW846 8260
Last Update : Wed Nov 05 04:41:50 2025



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

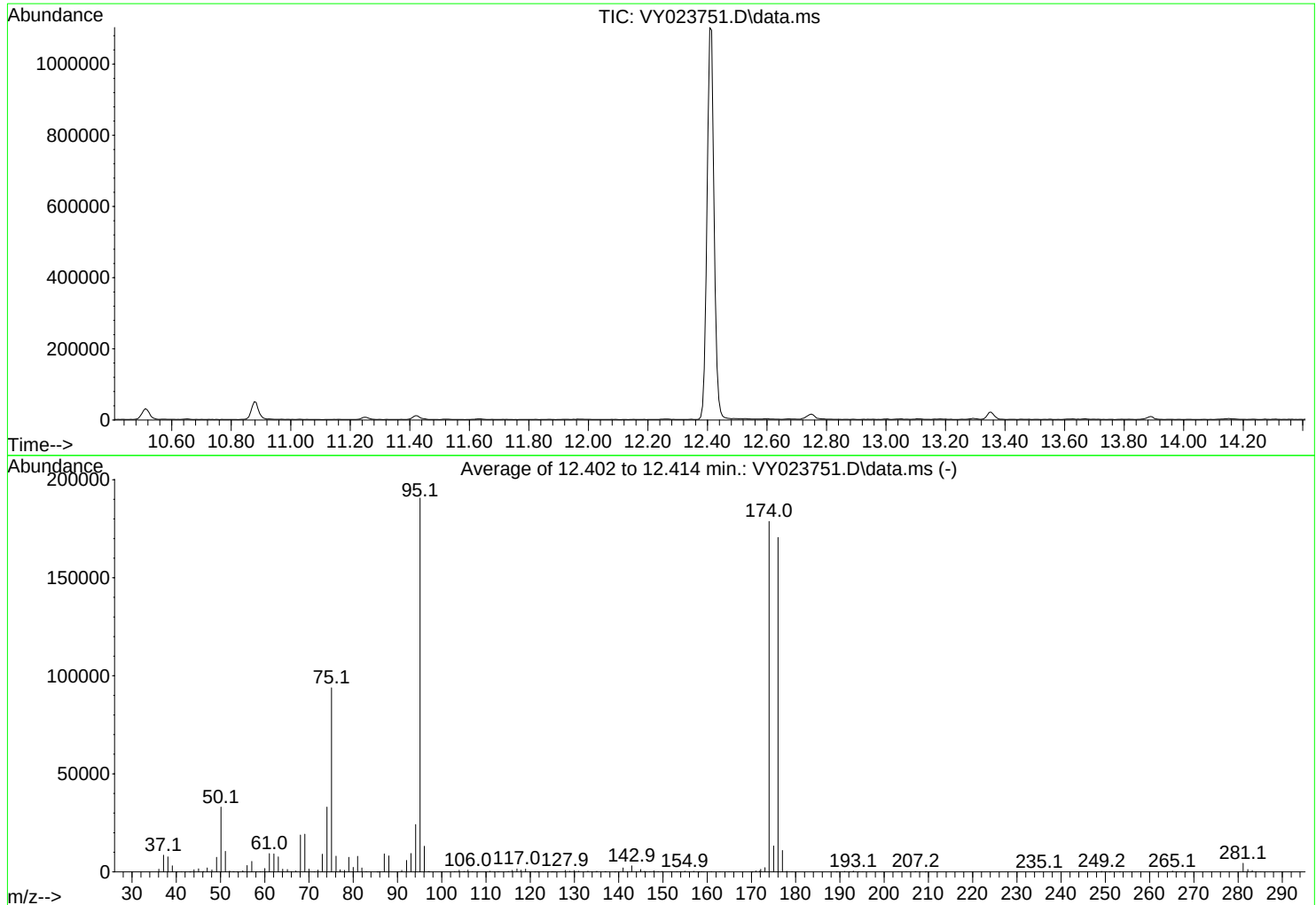
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	31677	PASS
75	95	30	60	49.0	89880	PASS
95	95	100	100	100.0	183253	PASS
96	95	5	9	6.7	12193	PASS
173	174	0.00	2	1.3	2292	PASS
174	95	50	100	94.8	173653	PASS
175	174	5	9	7.4	12790	PASS
176	174	95	101	96.1	166869	PASS
177	176	5	9	6.5	10925	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
Data File : VY023751.D
Acq On : 12 Nov 2025 09:23
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Title : SW846 8260
Last Update : Wed Nov 05 04:41:50 2025



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

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	17.3	33064	PASS
75	95	30	60	49.2	93869	PASS
95	95	100	100	100.0	190677	PASS
96	95	5	9	6.9	13077	PASS
173	174	0.00	2	1.2	2214	PASS
174	95	50	100	93.7	178731	PASS
175	174	5	9	7.4	13246	PASS
176	174	95	101	95.4	170573	PASS
177	176	5	9	6.4	10938	PASS

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: VW1111SBL01
Lab Sample ID: VW1111SBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3586
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.10	U	1	1.10	5.00	ug/Kg	11/11/25 09:34	VW111125
74-87-3	Chloromethane	1.10	U	1	1.10	5.00	ug/Kg	11/11/25 09:34	VW111125
75-01-4	Vinyl Chloride	0.79	U	1	0.79	5.00	ug/Kg	11/11/25 09:34	VW111125
74-83-9	Bromomethane	1.10	U	1	1.10	5.00	ug/Kg	11/11/25 09:34	VW111125
75-00-3	Chloroethane	1.30	U	1	1.30	5.00	ug/Kg	11/11/25 09:34	VW111125
75-69-4	Trichlorofluoromethane	1.20	U	1	1.20	5.00	ug/Kg	11/11/25 09:34	VW111125
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1	1.10	5.00	ug/Kg	11/11/25 09:34	VW111125
75-35-4	1,1-Dichloroethene	1.00	U	1	1.00	5.00	ug/Kg	11/11/25 09:34	VW111125
67-64-1	Acetone	4.70	U	1	4.70	25.0	ug/Kg	11/11/25 09:34	VW111125
75-15-0	Carbon Disulfide	1.10	U	1	1.10	5.00	ug/Kg	11/11/25 09:34	VW111125
1634-04-4	Methyl tert-butyl Ether	0.73	U	1	0.73	5.00	ug/Kg	11/11/25 09:34	VW111125
79-20-9	Methyl Acetate	1.50	U	1	1.50	5.00	ug/Kg	11/11/25 09:34	VW111125
75-09-2	Methylene Chloride	3.50	U	1	3.50	10.0	ug/Kg	11/11/25 09:34	VW111125
156-60-5	trans-1,2-Dichloroethene	0.86	U	1	0.86	5.00	ug/Kg	11/11/25 09:34	VW111125
75-34-3	1,1-Dichloroethane	0.80	U	1	0.80	5.00	ug/Kg	11/11/25 09:34	VW111125
110-82-7	Cyclohexane	0.79	U	1	0.79	5.00	ug/Kg	11/11/25 09:34	VW111125
78-93-3	2-Butanone	6.50	U	1	6.50	25.0	ug/Kg	11/11/25 09:34	VW111125
56-23-5	Carbon Tetrachloride	0.97	U	1	0.97	5.00	ug/Kg	11/11/25 09:34	VW111125
156-59-2	cis-1,2-Dichloroethene	0.75	U	1	0.75	5.00	ug/Kg	11/11/25 09:34	VW111125
74-97-5	Bromochloromethane	1.20	U	1	1.20	5.00	ug/Kg	11/11/25 09:34	VW111125
67-66-3	Chloroform	0.84	U	1	0.84	5.00	ug/Kg	11/11/25 09:34	VW111125
71-55-6	1,1,1-Trichloroethane	0.93	U	1	0.93	5.00	ug/Kg	11/11/25 09:34	VW111125
108-87-2	Methylcyclohexane	0.91	U	1	0.91	5.00	ug/Kg	11/11/25 09:34	VW111125
71-43-2	Benzene	0.79	U	1	0.79	5.00	ug/Kg	11/11/25 09:34	VW111125
107-06-2	1,2-Dichloroethane	0.79	U	1	0.79	5.00	ug/Kg	11/11/25 09:34	VW111125
79-01-6	Trichloroethene	0.81	U	1	0.81	5.00	ug/Kg	11/11/25 09:34	VW111125
78-87-5	1,2-Dichloropropane	0.91	U	1	0.91	5.00	ug/Kg	11/11/25 09:34	VW111125
75-27-4	Bromodichloromethane	0.78	U	1	0.78	5.00	ug/Kg	11/11/25 09:34	VW111125
108-10-1	4-Methyl-2-Pentanone	3.60	U	1	3.60	25.0	ug/Kg	11/11/25 09:34	VW111125
108-88-3	Toluene	0.78	U	1	0.78	5.00	ug/Kg	11/11/25 09:34	VW111125
10061-02-6	t-1,3-Dichloropropene	0.65	U	1	0.65	5.00	ug/Kg	11/11/25 09:34	VW111125
10061-01-5	cis-1,3-Dichloropropene	0.62	U	1	0.62	5.00	ug/Kg	11/11/25 09:34	VW111125
79-00-5	1,1,2-Trichloroethane	0.92	U	1	0.92	5.00	ug/Kg	11/11/25 09:34	VW111125
591-78-6	2-Hexanone	3.70	U	1	3.70	25.0	ug/Kg	11/11/25 09:34	VW111125
124-48-1	Dibromochloromethane	0.87	U	1	0.87	5.00	ug/Kg	11/11/25 09:34	VW111125
106-93-4	1,2-Dibromoethane	0.88	U	1	0.88	5.00	ug/Kg	11/11/25 09:34	VW111125
127-18-4	Tetrachloroethene	1.10	U	1	1.10	5.00	ug/Kg	11/11/25 09:34	VW111125
108-90-7	Chlorobenzene	0.91	U	1	0.91	5.00	ug/Kg	11/11/25 09:34	VW111125
100-41-4	Ethyl Benzene	0.67	U	1	0.67	5.00	ug/Kg	11/11/25 09:34	VW111125
179601-23-1	m/p-Xylenes	1.20	U	1	1.20	10.0	ug/Kg	11/11/25 09:34	VW111125
95-47-6	o-Xylene	0.82	U	1	0.82	5.00	ug/Kg	11/11/25 09:34	VW111125
100-42-5	Styrene	0.71	U	1	0.71	5.00	ug/Kg	11/11/25 09:34	VW111125
75-25-2	Bromoform	0.86	U	1	0.86	5.00	ug/Kg	11/11/25 09:34	VW111125

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: VW1111SBL01
Lab Sample ID: VW1111SBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3586
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.78	U	1	0.78	5.00	ug/Kg	11/11/25 09:34	VW111125
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1	1.20	5.00	ug/Kg	11/11/25 09:34	VW111125
541-73-1	1,3-Dichlorobenzene	1.70	U	1	1.70	5.00	ug/Kg	11/11/25 09:34	VW111125
106-46-7	1,4-Dichlorobenzene	1.60	U	1	1.60	5.00	ug/Kg	11/11/25 09:34	VW111125
95-50-1	1,2-Dichlorobenzene	1.50	U	1	1.50	5.00	ug/Kg	11/11/25 09:34	VW111125
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1	1.80	5.00	ug/Kg	11/11/25 09:34	VW111125
120-82-1	1,2,4-Trichlorobenzene	3.00	U	1	3.00	5.00	ug/Kg	11/11/25 09:34	VW111125
87-61-6	1,2,3-Trichlorobenzene	3.20	U	1	3.20	5.00	ug/Kg	11/11/25 09:34	VW111125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	60.2			70 (63) - 130 (155)	120%	SPK: 50		
1868-53-7	Dibromofluoromethane	55.1			70 (70) - 130 (134)	110%	SPK: 50		
2037-26-5	Toluene-d8	53.1			70 (74) - 130 (123)	106%	SPK: 50		
460-00-4	4-Bromofluorobenzene	57.3			70 (52) - 130 (138)	115%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	277000							
540-36-3	1,4-Difluorobenzene	601000							
3114-55-4	Chlorobenzene-d5	633000							
3855-82-1	1,4-Dichlorobenzene-d4	297000							

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_W\Data\VW111125\
 Data File : VW032416.D
 Acq On : 11 Nov 2025 09:34
 Operator : SY/MD
 Sample : VW1111SBL01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1111SBL01

Quant Time: Nov 12 03:42:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	277247	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	601287	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	633123	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	297226	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	215257	60.222	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	120.440%
35) Dibromofluoromethane	7.898	113	198257	55.071	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	110.140%
50) Toluene-d8	10.325	98	733818	53.133	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	106.260%
62) 4-Bromofluorobenzene	12.617	95	298731	57.258	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	114.520%

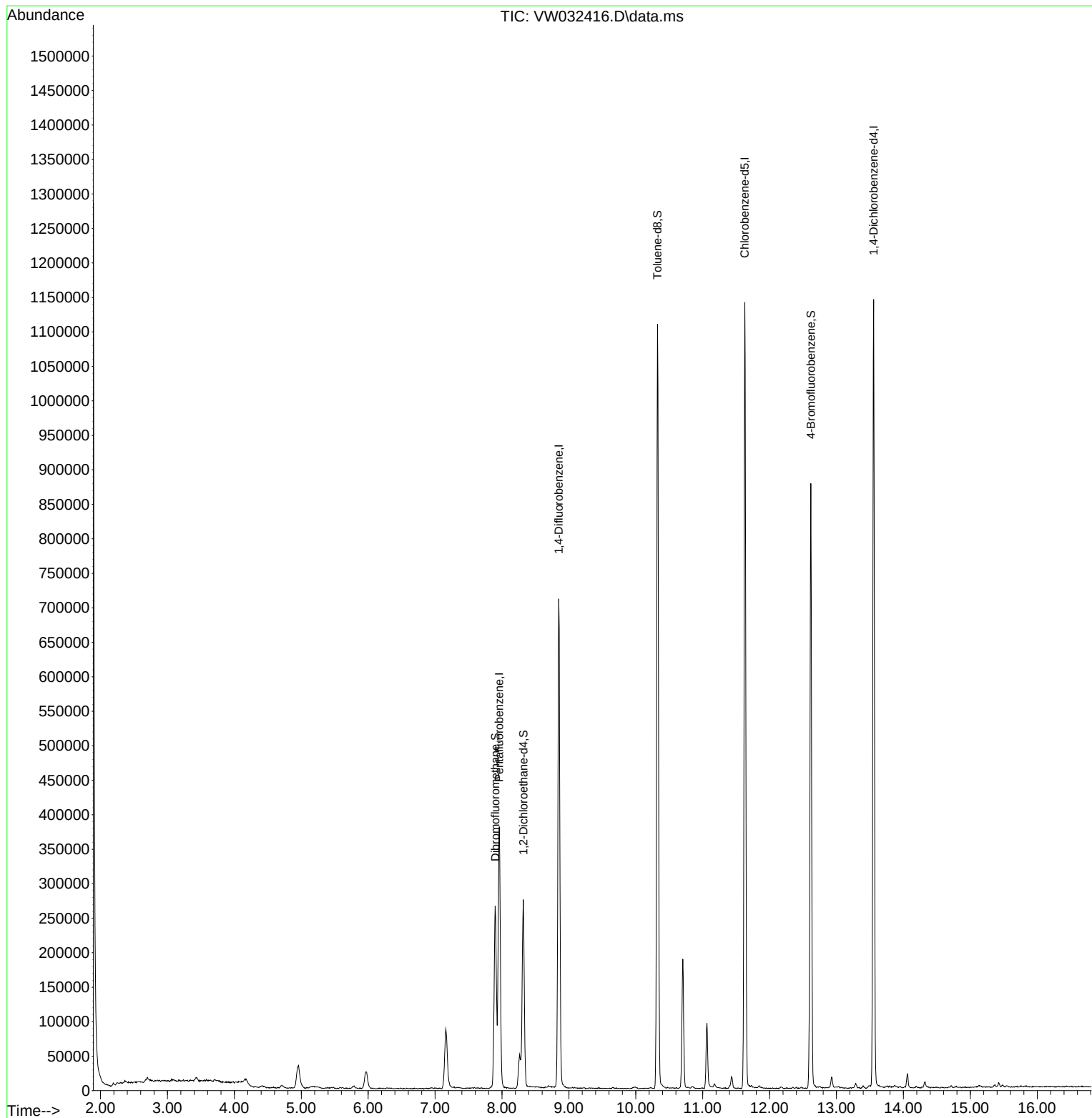
Target Compounds	Qvalue

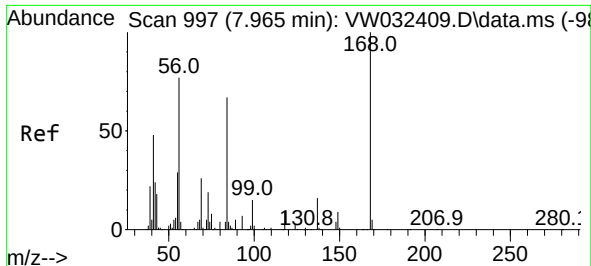
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032416.D
Acq On : 11 Nov 2025 09:34
Operator : SY/MD
Sample : VW1111SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1111SBL01

Quant Time: Nov 12 03:42:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

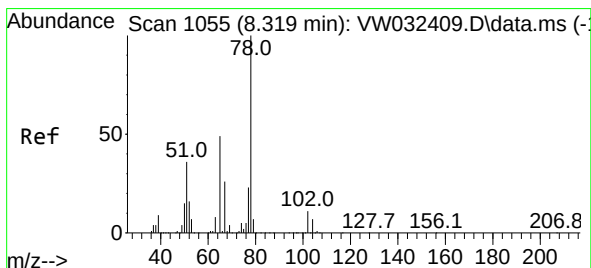
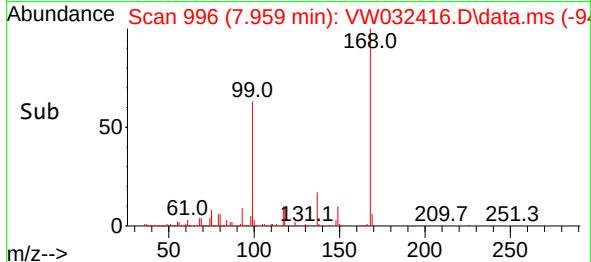
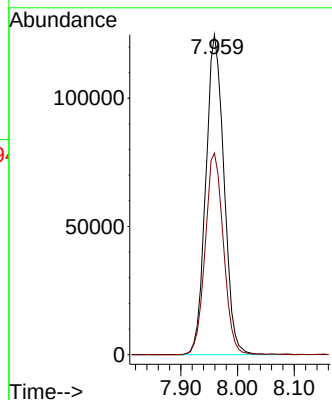
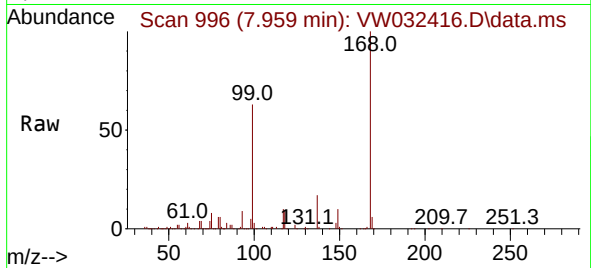




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.006 min
Lab File: VW032416.D
Acq: 11 Nov 2025 09:34

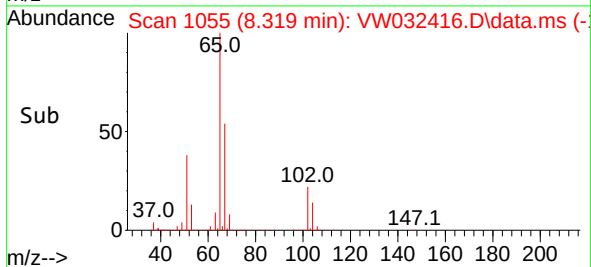
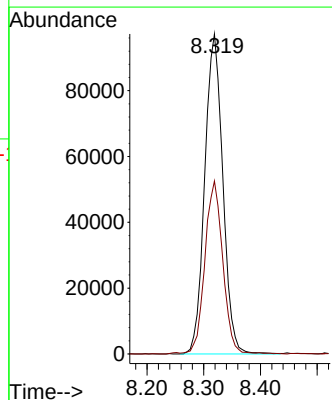
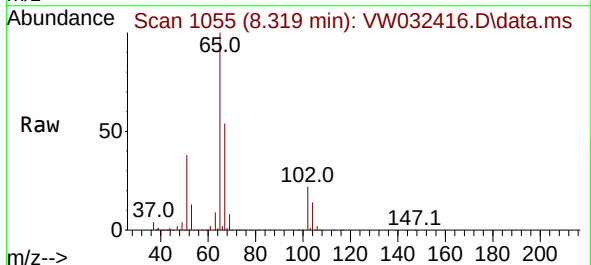
Instrument :
MSVOA_W
ClientSampleId :
VW1111SBL01

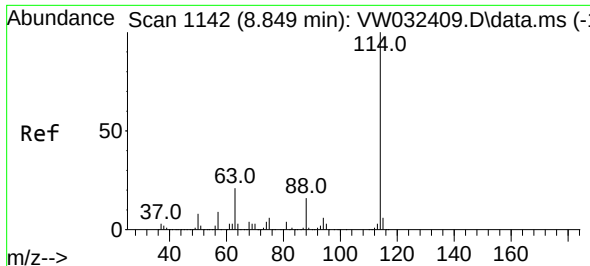
Tgt Ion:168 Resp: 277247
Ion Ratio Lower Upper
168 100
99 63.0 45.4 68.2



#33
1,2-Dichloroethane-d4
Concen: 60.222 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032416.D
Acq: 11 Nov 2025 09:34

Tgt Ion: 65 Resp: 215257
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VW032416.D

Acq: 11 Nov 2025 09:34

Instrument :

MSVOA_W

ClientSampleId :

VW1111SBL01

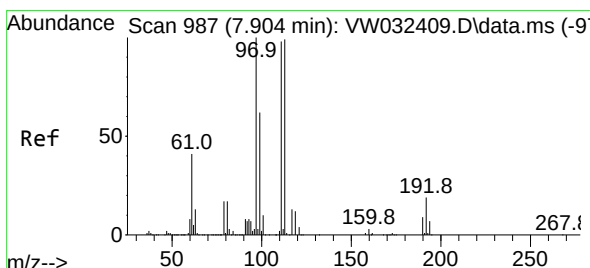
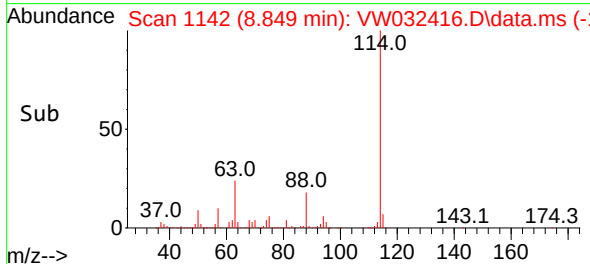
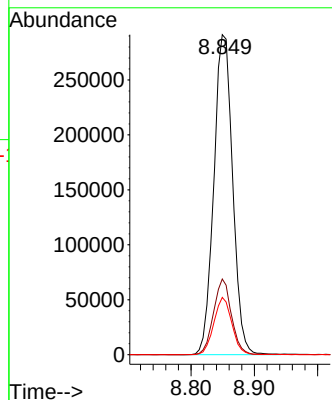
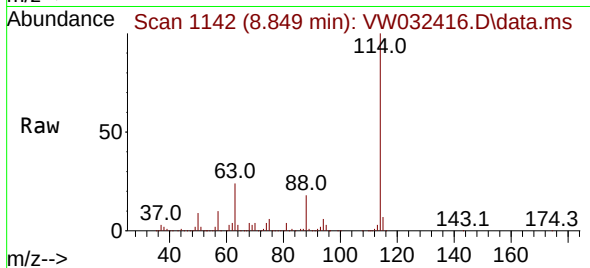
Tgt Ion:114 Resp: 601287

Ion Ratio Lower Upper

114 100

63 23.6 0.0 41.8

88 17.9 0.0 32.6



#35

Dibromofluoromethane

Concen: 55.071 ug/l

RT: 7.898 min Scan# 986

Delta R.T. -0.006 min

Lab File: VW032416.D

Acq: 11 Nov 2025 09:34

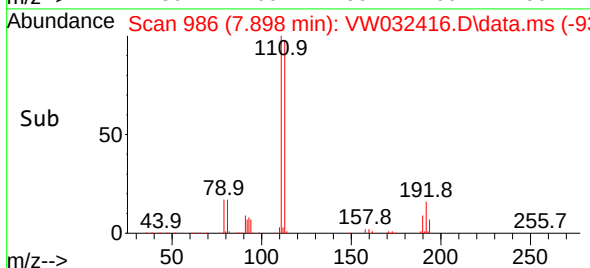
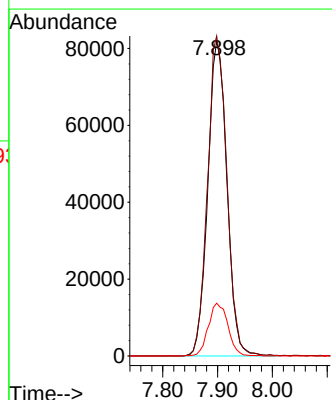
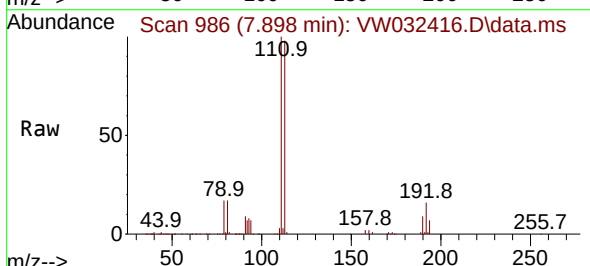
Tgt Ion:113 Resp: 198257

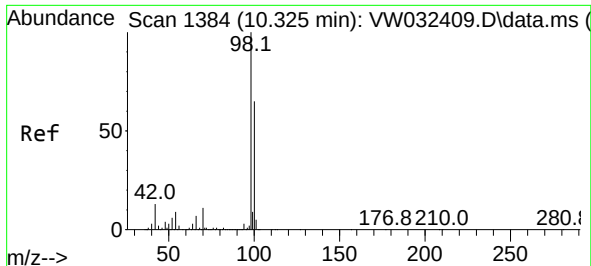
Ion Ratio Lower Upper

113 100

111 102.5 83.1 124.7

192 17.1 13.4 20.2

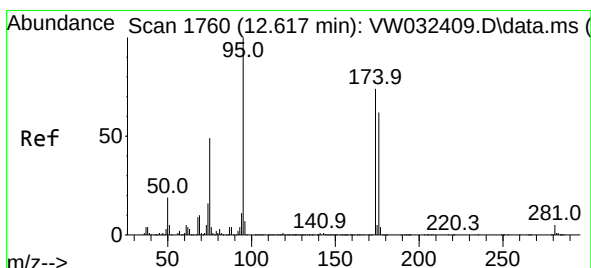
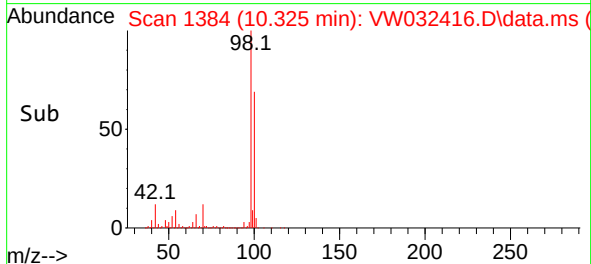
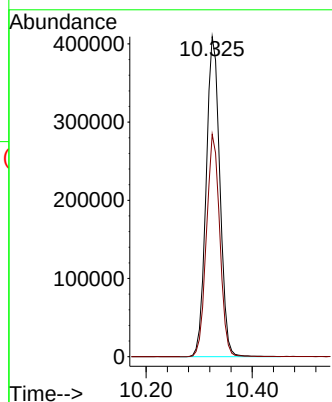
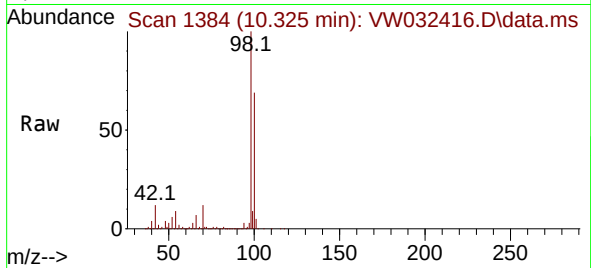




#50
Toluene-d8
Concen: 53.133 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032416.D
Acq: 11 Nov 2025 09:34

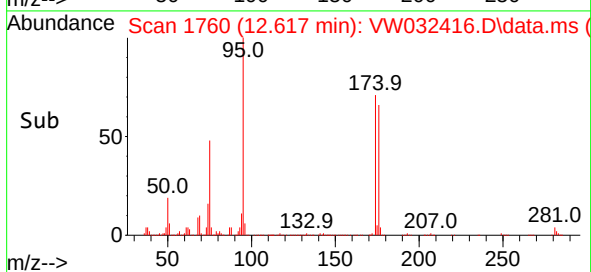
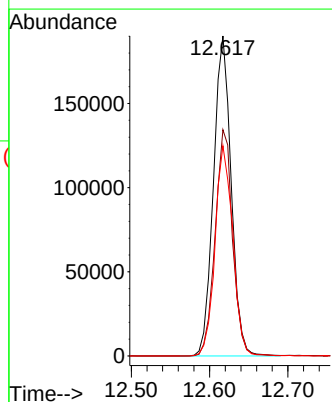
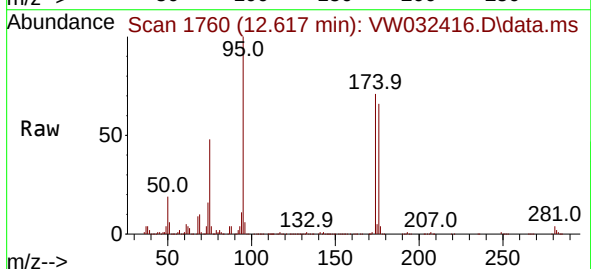
Instrument :
MSVOA_W
ClientSampleId :
VW1111SBL01

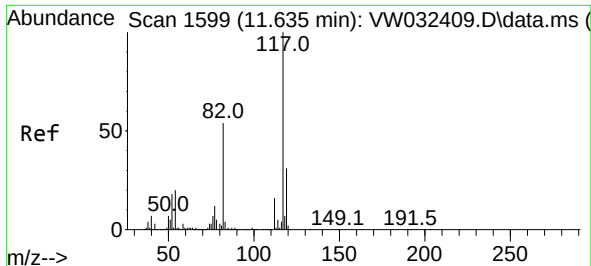
Tgt Ion: 98 Resp: 733818
Ion Ratio Lower Upper
98 100
100 67.6 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 57.258 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032416.D
Acq: 11 Nov 2025 09:34

Tgt Ion: 95 Resp: 298731
Ion Ratio Lower Upper
95 100
174 70.1 0.0 135.4
176 66.1 0.0 131.8

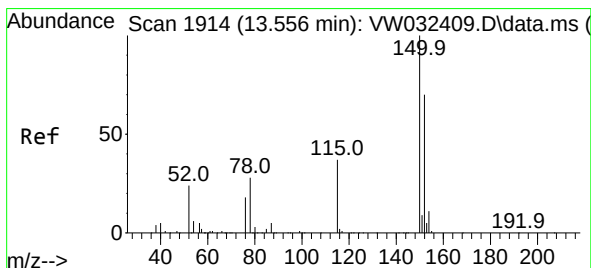
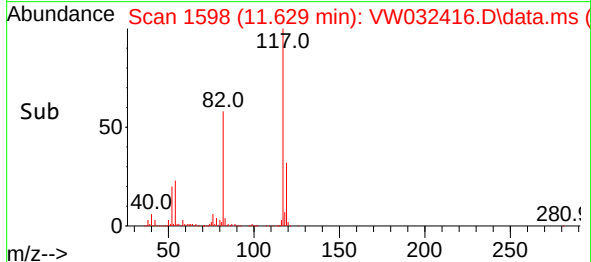
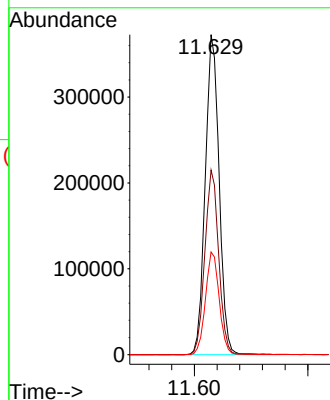
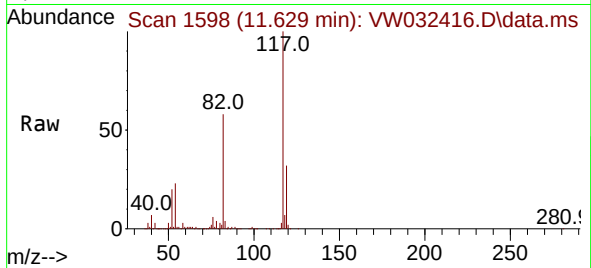




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032416.D
Acq: 11 Nov 2025 09:34

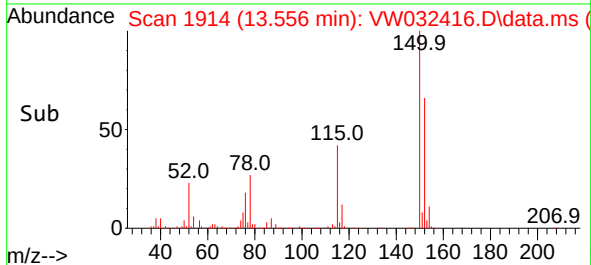
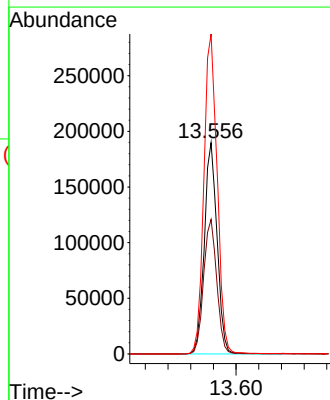
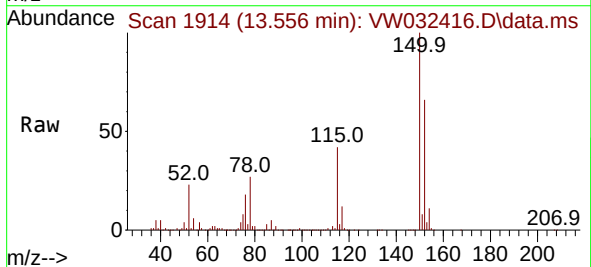
Instrument :
MSVOA_W
ClientSampleId :
VW1111SBL01

Tgt Ion:117 Resp: 633123
Ion Ratio Lower Upper
117 100
82 57.7 43.0 64.4
119 32.1 25.0 37.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032416.D
Acq: 11 Nov 2025 09:34

Tgt Ion:152 Resp: 297226
Ion Ratio Lower Upper
152 100
115 65.4 32.8 98.3
150 157.0 0.0 356.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032416.D
 Acq On : 11 Nov 2025 09:34
 Operator : SY/MD
 Sample : VW1111SBL01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1111SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Title : SW846 8260

Signal : TIC: VW032416.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.960	490	504	521	rVB3	33085	121100	6.12%	1.013%
2	5.966	658	669	681	rBV4	24346	81716	4.13%	0.683%
3	7.161	855	865	882	rBV	86495	259412	13.10%	2.170%
4	7.898	976	986	991	rBV2	263338	636600	32.15%	5.324%
5	7.959	991	996	1008	rVB	378420	838706	42.36%	7.015%
6	8.264	1036	1046	1048	rBV	49118	102406	5.17%	0.857%
7	8.319	1049	1055	1069	rVB	271980	599552	30.28%	5.015%
8	8.849	1133	1142	1152	rBV	707390	1429317	72.18%	11.955%
9	10.325	1376	1384	1404	rBV	1108314	1980084	100.00%	16.561%
10	10.703	1436	1446	1456	rBV	187593	338470	17.09%	2.831%
11	11.062	1498	1505	1516	rBV	95439	175429	8.86%	1.467%
12	11.428	1557	1565	1573	rBV3	17254	37835	1.91%	0.316%
13	11.629	1590	1598	1609	rBV	1140141	1954651	98.72%	16.349%
14	12.617	1750	1760	1774	rBV2	877443	1483576	74.92%	12.409%
15	12.928	1805	1811	1818	rBV2	15070	27111	1.37%	0.227%
16	13.556	1907	1914	1926	rBV	1140484	1855850	93.73%	15.522%
17	14.062	1992	1997	2004	rVB	20050	34274	1.73%	0.287%

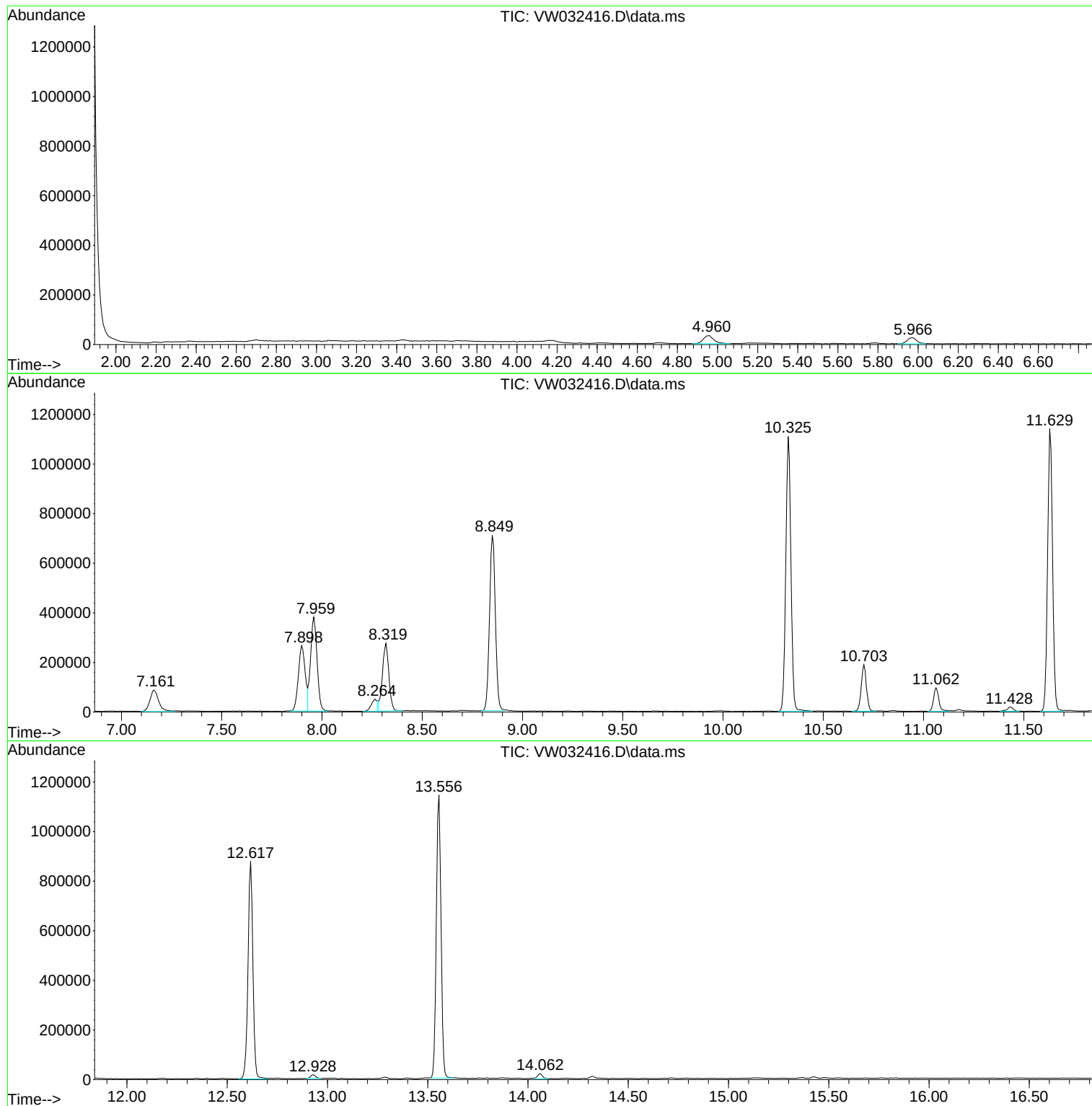
Sum of corrected areas: 11956089

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032416.D
Acq On : 11 Nov 2025 09:34
Operator : SY/MD
Sample : VW1111SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1111SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032416.D
Acq On : 11 Nov 2025 09:34
Operator : SY/MD
Sample : VW1111SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1111SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032416.D
Acq On : 11 Nov 2025 09:34
Operator : SY/MD
Sample : VW1111SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1111SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: VY1112SBL01
Lab Sample ID: VY1112SBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3586
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.10	U	1	1.10	5.00	ug/Kg	11/12/25 10:37	VY111225
74-87-3	Chloromethane	1.10	U	1	1.10	5.00	ug/Kg	11/12/25 10:37	VY111225
75-01-4	Vinyl Chloride	0.79	U	1	0.79	5.00	ug/Kg	11/12/25 10:37	VY111225
74-83-9	Bromomethane	1.10	U	1	1.10	5.00	ug/Kg	11/12/25 10:37	VY111225
75-00-3	Chloroethane	1.30	U	1	1.30	5.00	ug/Kg	11/12/25 10:37	VY111225
75-69-4	Trichlorofluoromethane	1.20	U	1	1.20	5.00	ug/Kg	11/12/25 10:37	VY111225
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1	1.10	5.00	ug/Kg	11/12/25 10:37	VY111225
75-35-4	1,1-Dichloroethene	1.00	U	1	1.00	5.00	ug/Kg	11/12/25 10:37	VY111225
67-64-1	Acetone	4.70	U	1	4.70	25.0	ug/Kg	11/12/25 10:37	VY111225
75-15-0	Carbon Disulfide	1.10	U	1	1.10	5.00	ug/Kg	11/12/25 10:37	VY111225
1634-04-4	Methyl tert-butyl Ether	0.73	U	1	0.73	5.00	ug/Kg	11/12/25 10:37	VY111225
79-20-9	Methyl Acetate	1.50	U	1	1.50	5.00	ug/Kg	11/12/25 10:37	VY111225
75-09-2	Methylene Chloride	3.50	U	1	3.50	10.0	ug/Kg	11/12/25 10:37	VY111225
156-60-5	trans-1,2-Dichloroethene	0.86	U	1	0.86	5.00	ug/Kg	11/12/25 10:37	VY111225
75-34-3	1,1-Dichloroethane	0.80	U	1	0.80	5.00	ug/Kg	11/12/25 10:37	VY111225
110-82-7	Cyclohexane	0.79	U	1	0.79	5.00	ug/Kg	11/12/25 10:37	VY111225
78-93-3	2-Butanone	6.50	U	1	6.50	25.0	ug/Kg	11/12/25 10:37	VY111225
56-23-5	Carbon Tetrachloride	0.97	U	1	0.97	5.00	ug/Kg	11/12/25 10:37	VY111225
156-59-2	cis-1,2-Dichloroethene	0.75	U	1	0.75	5.00	ug/Kg	11/12/25 10:37	VY111225
74-97-5	Bromochloromethane	1.20	U	1	1.20	5.00	ug/Kg	11/12/25 10:37	VY111225
67-66-3	Chloroform	0.84	U	1	0.84	5.00	ug/Kg	11/12/25 10:37	VY111225
71-55-6	1,1,1-Trichloroethane	0.93	U	1	0.93	5.00	ug/Kg	11/12/25 10:37	VY111225
108-87-2	Methylcyclohexane	0.91	U	1	0.91	5.00	ug/Kg	11/12/25 10:37	VY111225
71-43-2	Benzene	0.79	U	1	0.79	5.00	ug/Kg	11/12/25 10:37	VY111225
107-06-2	1,2-Dichloroethane	0.79	U	1	0.79	5.00	ug/Kg	11/12/25 10:37	VY111225
79-01-6	Trichloroethene	0.81	U	1	0.81	5.00	ug/Kg	11/12/25 10:37	VY111225
78-87-5	1,2-Dichloropropane	0.91	U	1	0.91	5.00	ug/Kg	11/12/25 10:37	VY111225
75-27-4	Bromodichloromethane	0.78	U	1	0.78	5.00	ug/Kg	11/12/25 10:37	VY111225
108-10-1	4-Methyl-2-Pentanone	3.60	U	1	3.60	25.0	ug/Kg	11/12/25 10:37	VY111225
108-88-3	Toluene	0.78	U	1	0.78	5.00	ug/Kg	11/12/25 10:37	VY111225
10061-02-6	t-1,3-Dichloropropene	0.65	U	1	0.65	5.00	ug/Kg	11/12/25 10:37	VY111225
10061-01-5	cis-1,3-Dichloropropene	0.62	U	1	0.62	5.00	ug/Kg	11/12/25 10:37	VY111225
79-00-5	1,1,2-Trichloroethane	0.92	U	1	0.92	5.00	ug/Kg	11/12/25 10:37	VY111225
591-78-6	2-Hexanone	3.70	U	1	3.70	25.0	ug/Kg	11/12/25 10:37	VY111225
124-48-1	Dibromochloromethane	0.87	U	1	0.87	5.00	ug/Kg	11/12/25 10:37	VY111225
106-93-4	1,2-Dibromoethane	0.88	U	1	0.88	5.00	ug/Kg	11/12/25 10:37	VY111225
127-18-4	Tetrachloroethene	1.10	U	1	1.10	5.00	ug/Kg	11/12/25 10:37	VY111225
108-90-7	Chlorobenzene	0.91	U	1	0.91	5.00	ug/Kg	11/12/25 10:37	VY111225
100-41-4	Ethyl Benzene	0.67	U	1	0.67	5.00	ug/Kg	11/12/25 10:37	VY111225
179601-23-1	m/p-Xylenes	1.20	U	1	1.20	10.0	ug/Kg	11/12/25 10:37	VY111225
95-47-6	o-Xylene	0.82	U	1	0.82	5.00	ug/Kg	11/12/25 10:37	VY111225
100-42-5	Styrene	0.71	U	1	0.71	5.00	ug/Kg	11/12/25 10:37	VY111225
75-25-2	Bromoform	0.86	U	1	0.86	5.00	ug/Kg	11/12/25 10:37	VY111225

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: VY1112SBL01
Lab Sample ID: VY1112SBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3586
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.78	U	1	0.78	5.00	ug/Kg	11/12/25 10:37	VY111225
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1	1.20	5.00	ug/Kg	11/12/25 10:37	VY111225
541-73-1	1,3-Dichlorobenzene	1.70	U	1	1.70	5.00	ug/Kg	11/12/25 10:37	VY111225
106-46-7	1,4-Dichlorobenzene	1.60	U	1	1.60	5.00	ug/Kg	11/12/25 10:37	VY111225
95-50-1	1,2-Dichlorobenzene	1.50	U	1	1.50	5.00	ug/Kg	11/12/25 10:37	VY111225
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1	1.80	5.00	ug/Kg	11/12/25 10:37	VY111225
120-82-1	1,2,4-Trichlorobenzene	3.00	U	1	3.00	5.00	ug/Kg	11/12/25 10:37	VY111225
87-61-6	1,2,3-Trichlorobenzene	3.20	U	1	3.20	5.00	ug/Kg	11/12/25 10:37	VY111225

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	57.4			70 (63) - 130 (155)	115%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1			70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	48.1			70 (74) - 130 (123)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.4			70 (52) - 130 (138)	85%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	769000
540-36-3	1,4-Difluorobenzene	1300000
3114-55-4	Chlorobenzene-d5	1090000
3855-82-1	1,4-Dichlorobenzene-d4	432000

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\VY111225\
 Data File : VY023753.D
 Acq On : 12 Nov 2025 10:37
 Operator : SY/MD
 Sample : VY1112SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1112SBL01

Quant Time: Nov 14 03:33:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	769463	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1302390	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1092818	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	431668	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	376845	57.414	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	114.820%
35) Dibromofluoromethane	7.640	113	415926	51.102	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.200%
50) Toluene-d8	10.109	98	1458000	48.089	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.180%
62) 4-Bromofluorobenzene	12.408	95	415705	42.398	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	84.800%

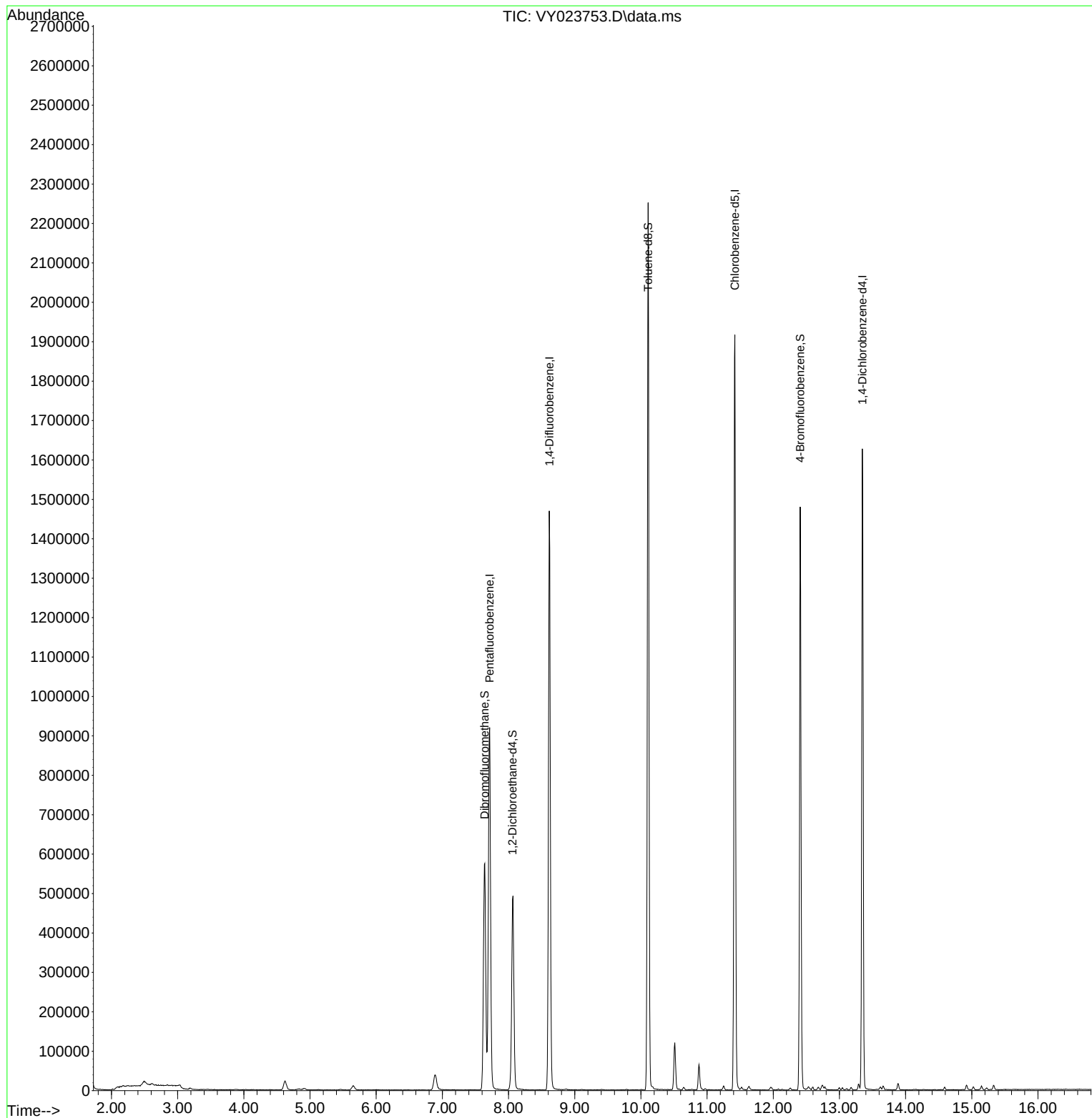
Target Compounds	Qvalue

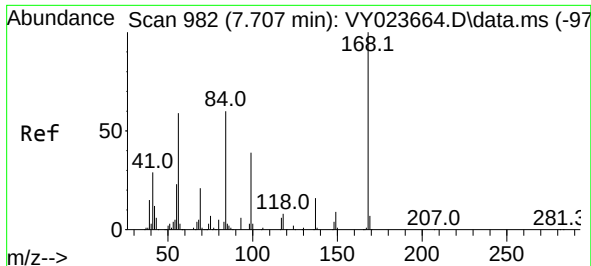
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
Data File : VY023753.D
Acq On : 12 Nov 2025 10:37
Operator : SY/MD
Sample : VY1112SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1112SBL01

Quant Time: Nov 14 03:33:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:41:50 2025
Response via : Initial Calibration

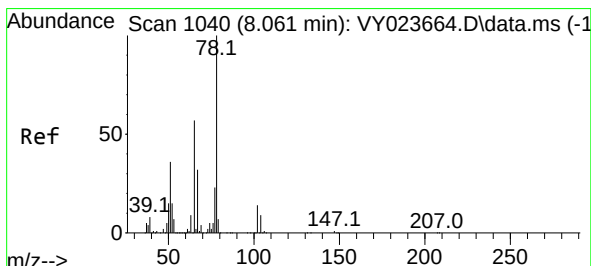
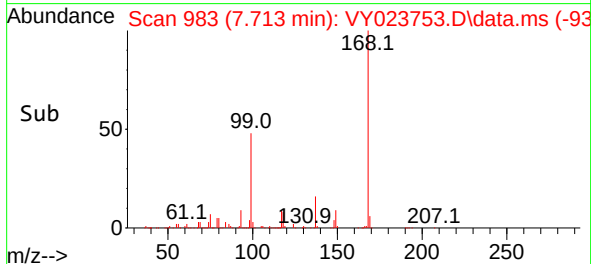
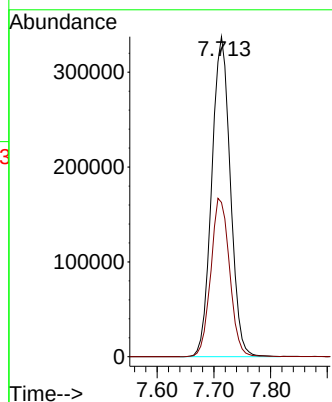
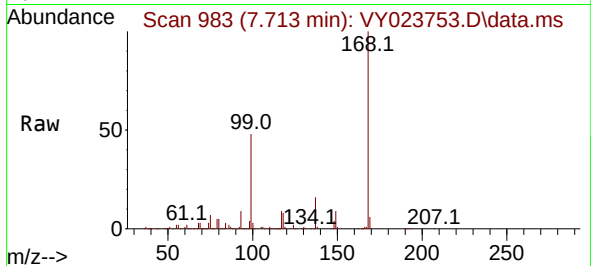




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023753.D
Acq: 12 Nov 2025 10:37

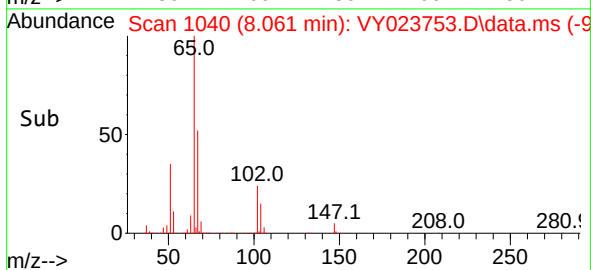
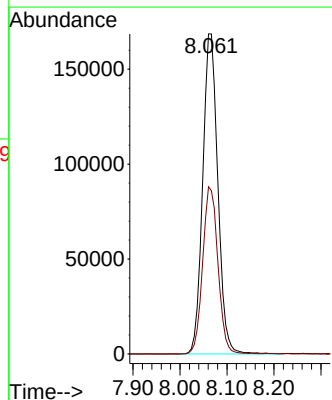
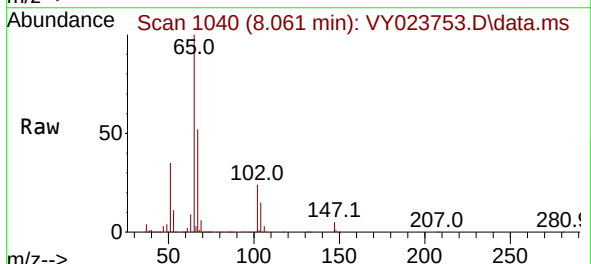
Instrument :
MSVOA_Y
ClientSampleId :
VY1112SBL01

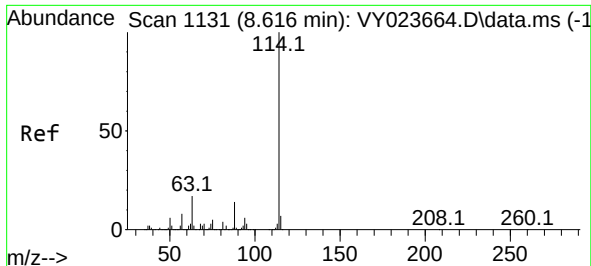
Tgt Ion:168 Resp: 769463
Ion Ratio Lower Upper
168 100
99 48.2 41.0 61.4



#33
1,2-Dichloroethane-d4
Concen: 57.414 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY023753.D
Acq: 12 Nov 2025 10:37

Tgt Ion: 65 Resp: 376845
Ion Ratio Lower Upper
65 100
67 52.7 0.0 107.4

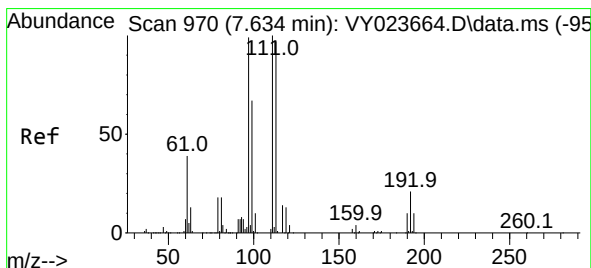
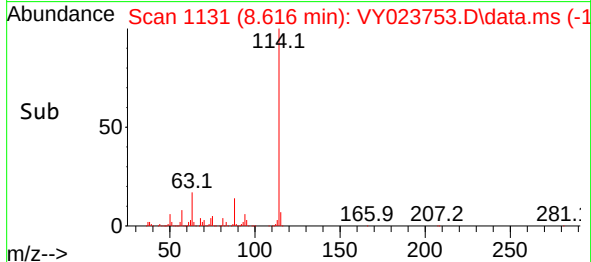
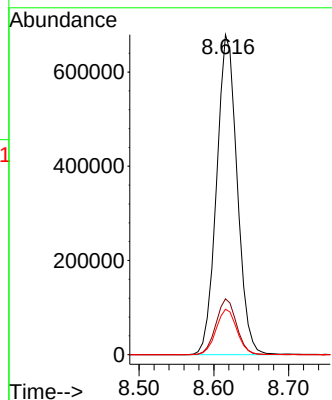
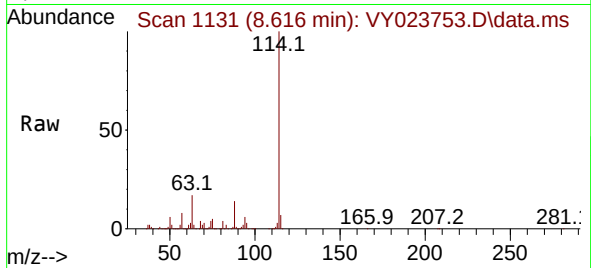




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023753.D
Acq: 12 Nov 2025 10:37

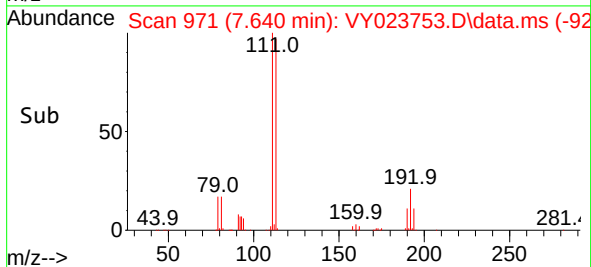
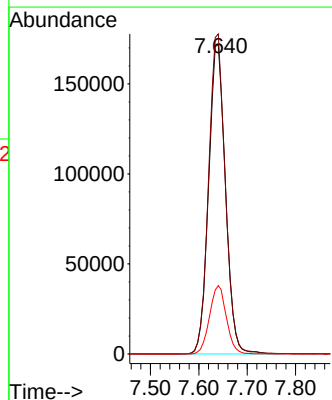
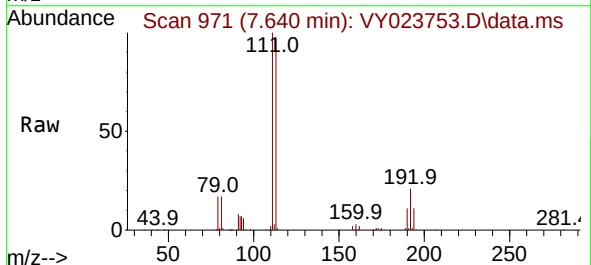
Instrument :
MSVOA_Y
ClientSampleId :
VY1112SBL01

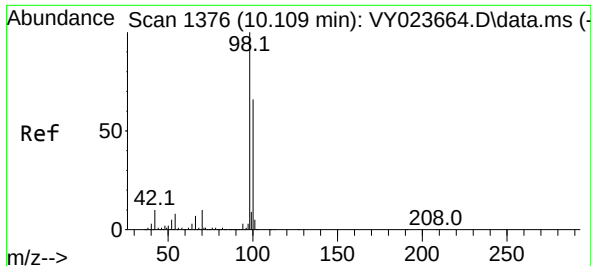
Tgt Ion:114 Resp: 1302390
Ion Ratio Lower Upper
114 100
63 17.4 0.0 33.8
88 14.2 0.0 29.0



#35
Dibromofluoromethane
Concen: 51.102 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023753.D
Acq: 12 Nov 2025 10:37

Tgt Ion:113 Resp: 415926
Ion Ratio Lower Upper
113 100
111 102.3 82.2 123.4
192 22.0 17.3 25.9

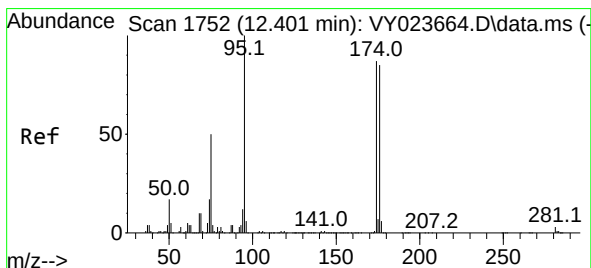
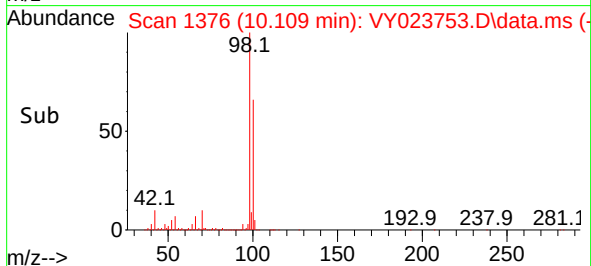
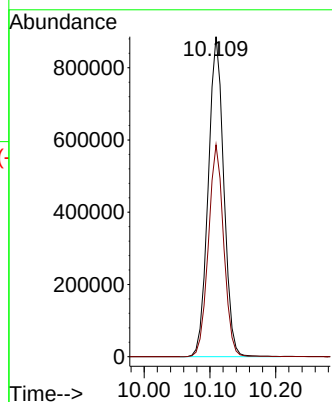
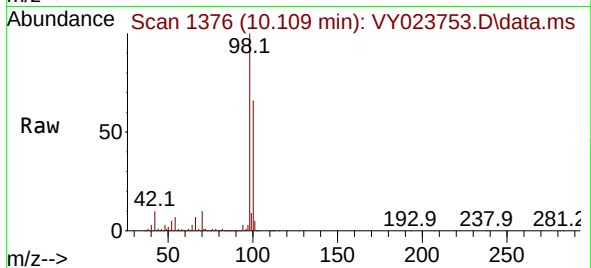




#50
Toluene-d8
Concen: 48.089 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY023753.D
Acq: 12 Nov 2025 10:37

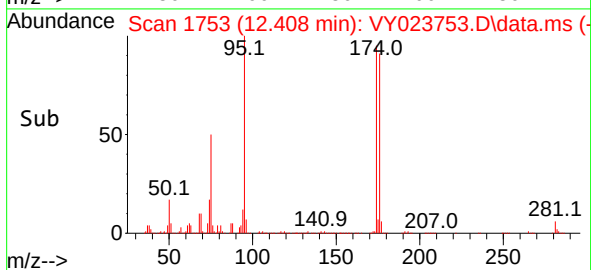
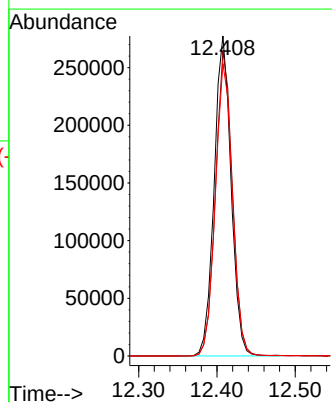
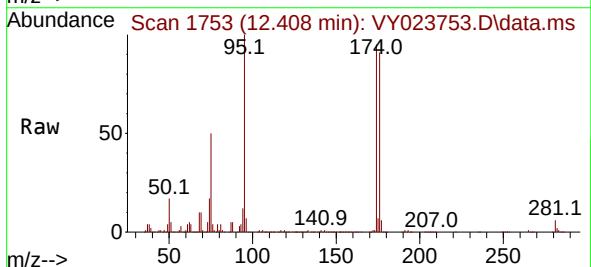
Instrument :
MSVOA_Y
ClientSampleId :
VY1112SBL01

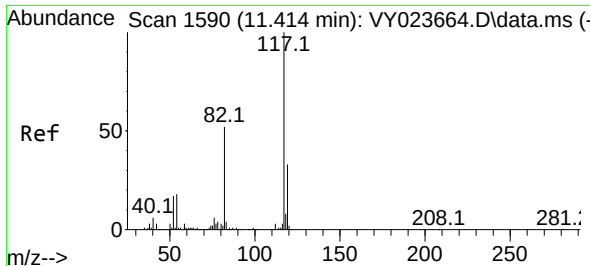
Tgt Ion: 98 Resp: 1458000
Ion Ratio Lower Upper
98 100
100 65.3 52.7 79.1



#62
4-Bromofluorobenzene
Concen: 42.398 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023753.D
Acq: 12 Nov 2025 10:37

Tgt Ion: 95 Resp: 415705
Ion Ratio Lower Upper
95 100
174 95.9 0.0 184.8
176 92.6 0.0 181.6

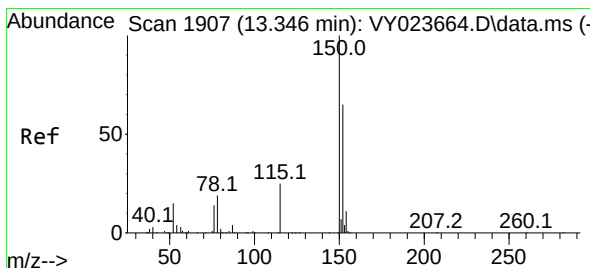
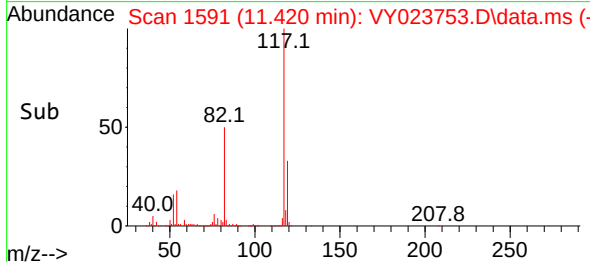
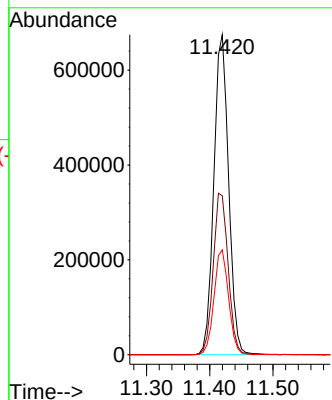
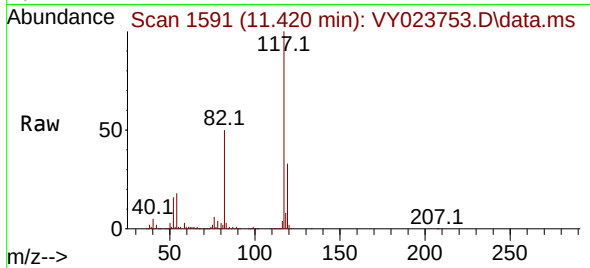




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023753.D
Acq: 12 Nov 2025 10:37

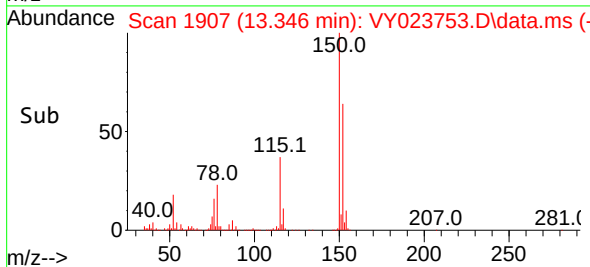
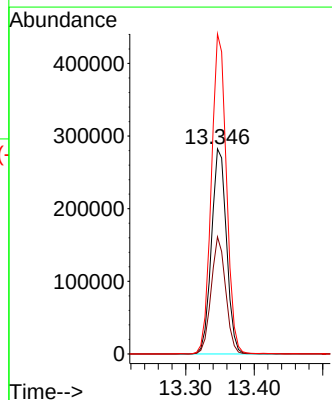
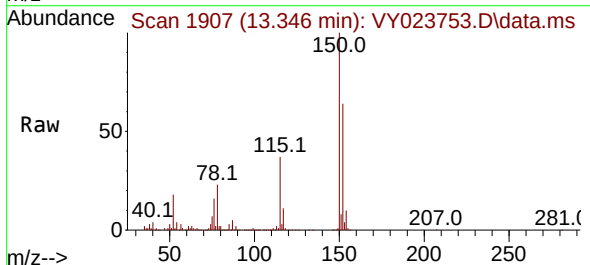
Instrument :
MSVOA_Y
ClientSampleId :
VY1112SBL01

Tgt Ion:117 Resp: 1092818
Ion Ratio Lower Upper
117 100
82 49.6 41.2 61.8
119 32.7 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023753.D
Acq: 12 Nov 2025 10:37

Tgt Ion:152 Resp: 431668
Ion Ratio Lower Upper
152 100
115 55.2 27.5 82.5
150 155.9 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
 Data File : VY023753.D
 Acq On : 12 Nov 2025 10:37
 Operator : SY/MD
 Sample : VY1112SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1112SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M

Title : SW846 8260

Signal : TIC: VY023753.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.622	467	476	490	rVB3	22412	68329	1.83%	0.347%
2	6.890	836	848	860	rBV	38261	128159	3.43%	0.650%
3	7.640	957	971	976	rBV	574401	1365367	36.55%	6.929%
4	7.713	976	983	1000	rVB	918241	2141937	57.33%	10.869%
5	8.067	1026	1041	1054	rBV	492174	1139953	30.51%	5.785%
6	8.616	1121	1131	1143	rBV	1469309	2837953	75.97%	14.401%
7	10.109	1368	1376	1392	rBV	2251352	3735829	100.00%	18.957%
8	10.512	1434	1442	1451	rBV	119390	218279	5.84%	1.108%
9	10.877	1496	1502	1513	rBV	63530	111276	2.98%	0.565%
10	11.420	1583	1591	1603	rBV	1915887	3161631	84.63%	16.044%
11	12.408	1742	1753	1766	rBV2	1479362	2332645	62.44%	11.837%
12	13.346	1901	1907	1922	rVB	1625799	2465129	65.99%	12.509%

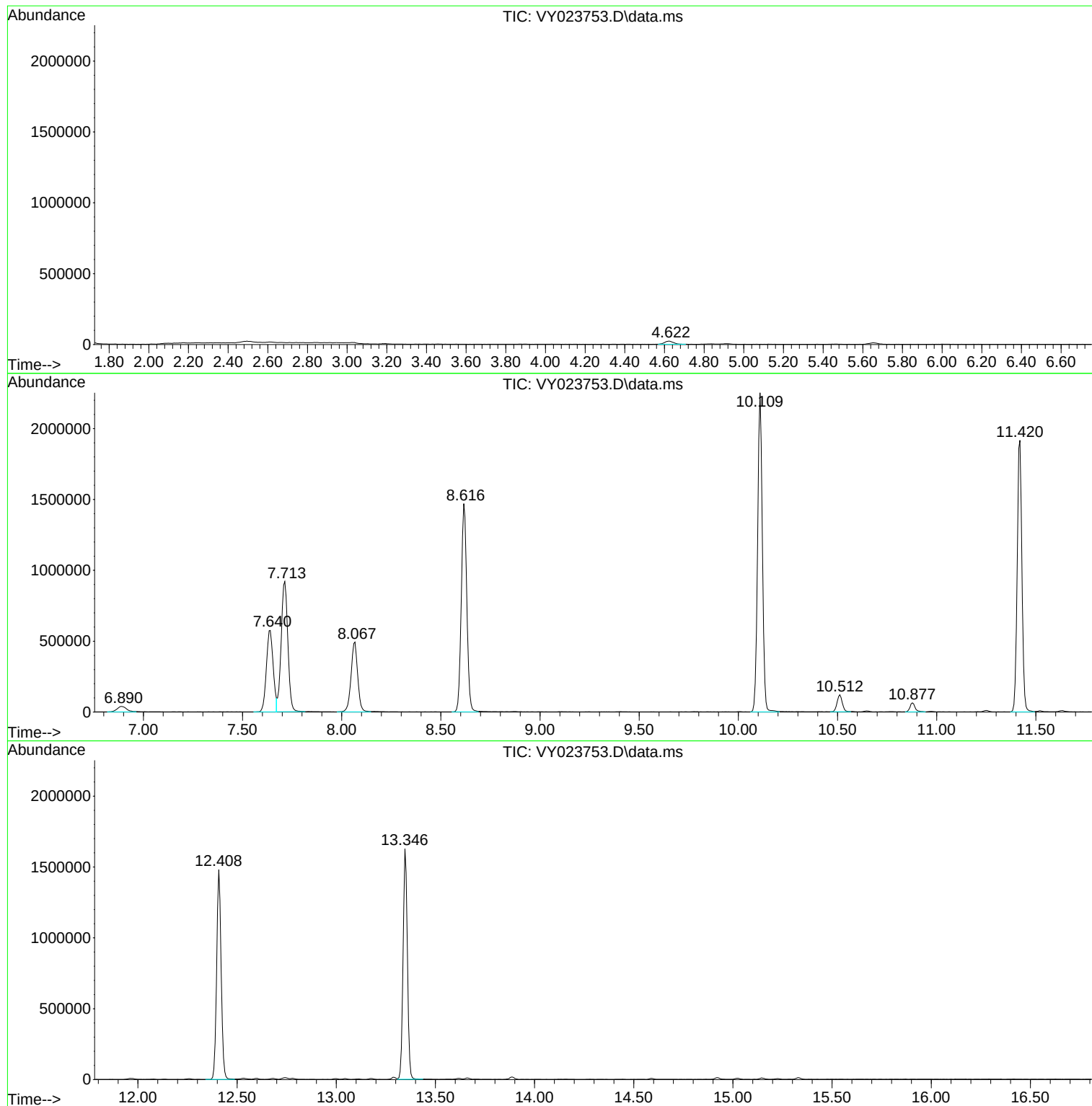
Sum of corrected areas: 19706487

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
Data File : VY023753.D
Acq On : 12 Nov 2025 10:37
Operator : SY/MD
Sample : VY1112SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1112SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
Data File : VY023753.D
Acq On : 12 Nov 2025 10:37
Operator : SY/MD
Sample : VY1112SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1112SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
Data File : VY023753.D
Acq On : 12 Nov 2025 10:37
Operator : SY/MD
Sample : VY1112SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1112SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: VW1111SBS01
Lab Sample ID: VW1111SBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3586
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	18.7		1	1.10	5.00	ug/Kg	11/11/25 10:00	VW111125
74-87-3	Chloromethane	20.7		1	1.10	5.00	ug/Kg	11/11/25 10:00	VW111125
75-01-4	Vinyl Chloride	21.0		1	0.79	5.00	ug/Kg	11/11/25 10:00	VW111125
74-83-9	Bromomethane	20.9		1	1.10	5.00	ug/Kg	11/11/25 10:00	VW111125
75-00-3	Chloroethane	20.5		1	1.30	5.00	ug/Kg	11/11/25 10:00	VW111125
75-69-4	Trichlorofluoromethane	18.3		1	1.20	5.00	ug/Kg	11/11/25 10:00	VW111125
76-13-1	1,1,2-Trichlorotrifluoroethane	21.3		1	1.10	5.00	ug/Kg	11/11/25 10:00	VW111125
75-35-4	1,1-Dichloroethene	21.3		1	1.00	5.00	ug/Kg	11/11/25 10:00	VW111125
67-64-1	Acetone	100		1	4.70	25.0	ug/Kg	11/11/25 10:00	VW111125
75-15-0	Carbon Disulfide	20.3		1	1.10	5.00	ug/Kg	11/11/25 10:00	VW111125
1634-04-4	Methyl tert-butyl Ether	19.5		1	0.73	5.00	ug/Kg	11/11/25 10:00	VW111125
79-20-9	Methyl Acetate	17.2		1	1.50	5.00	ug/Kg	11/11/25 10:00	VW111125
75-09-2	Methylene Chloride	19.2		1	3.50	10.0	ug/Kg	11/11/25 10:00	VW111125
156-60-5	trans-1,2-Dichloroethene	20.1		1	0.86	5.00	ug/Kg	11/11/25 10:00	VW111125
75-34-3	1,1-Dichloroethane	20.6		1	0.80	5.00	ug/Kg	11/11/25 10:00	VW111125
110-82-7	Cyclohexane	20.8		1	0.79	5.00	ug/Kg	11/11/25 10:00	VW111125
78-93-3	2-Butanone	90.4		1	6.50	25.0	ug/Kg	11/11/25 10:00	VW111125
56-23-5	Carbon Tetrachloride	21.2		1	0.97	5.00	ug/Kg	11/11/25 10:00	VW111125
156-59-2	cis-1,2-Dichloroethene	20.2		1	0.75	5.00	ug/Kg	11/11/25 10:00	VW111125
74-97-5	Bromochloromethane	19.4		1	1.20	5.00	ug/Kg	11/11/25 10:00	VW111125
67-66-3	Chloroform	20.7		1	0.84	5.00	ug/Kg	11/11/25 10:00	VW111125
71-55-6	1,1,1-Trichloroethane	20.8		1	0.93	5.00	ug/Kg	11/11/25 10:00	VW111125
108-87-2	Methylcyclohexane	20.8		1	0.91	5.00	ug/Kg	11/11/25 10:00	VW111125
71-43-2	Benzene	20.9		1	0.79	5.00	ug/Kg	11/11/25 10:00	VW111125
107-06-2	1,2-Dichloroethane	20.2		1	0.79	5.00	ug/Kg	11/11/25 10:00	VW111125
79-01-6	Trichloroethene	20.3		1	0.81	5.00	ug/Kg	11/11/25 10:00	VW111125
78-87-5	1,2-Dichloropropane	20.6		1	0.91	5.00	ug/Kg	11/11/25 10:00	VW111125
75-27-4	Bromodichloromethane	20.2		1	0.78	5.00	ug/Kg	11/11/25 10:00	VW111125
108-10-1	4-Methyl-2-Pentanone	92.1		1	3.60	25.0	ug/Kg	11/11/25 10:00	VW111125
108-88-3	Toluene	21.2		1	0.78	5.00	ug/Kg	11/11/25 10:00	VW111125
10061-02-6	t-1,3-Dichloropropene	19.5		1	0.65	5.00	ug/Kg	11/11/25 10:00	VW111125
10061-01-5	cis-1,3-Dichloropropene	20.2		1	0.62	5.00	ug/Kg	11/11/25 10:00	VW111125
79-00-5	1,1,2-Trichloroethane	20.0		1	0.92	5.00	ug/Kg	11/11/25 10:00	VW111125
591-78-6	2-Hexanone	91.7		1	3.70	25.0	ug/Kg	11/11/25 10:00	VW111125
124-48-1	Dibromochloromethane	19.2		1	0.87	5.00	ug/Kg	11/11/25 10:00	VW111125
106-93-4	1,2-Dibromoethane	19.5		1	0.88	5.00	ug/Kg	11/11/25 10:00	VW111125
127-18-4	Tetrachloroethene	21.3		1	1.10	5.00	ug/Kg	11/11/25 10:00	VW111125
108-90-7	Chlorobenzene	20.7		1	0.91	5.00	ug/Kg	11/11/25 10:00	VW111125
100-41-4	Ethyl Benzene	20.5		1	0.67	5.00	ug/Kg	11/11/25 10:00	VW111125
179601-23-1	m/p-Xylenes	41.8		1	1.20	10.0	ug/Kg	11/11/25 10:00	VW111125
95-47-6	o-Xylene	20.0		1	0.82	5.00	ug/Kg	11/11/25 10:00	VW111125
100-42-5	Styrene	20.9		1	0.71	5.00	ug/Kg	11/11/25 10:00	VW111125
75-25-2	Bromoform	18.1		1	0.86	5.00	ug/Kg	11/11/25 10:00	VW111125

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: VW1111SBS01
Lab Sample ID: VW1111SBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3586
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	20.7		1	0.78	5.00	ug/Kg	11/11/25 10:00	VW111125
79-34-5	1,1,2,2-Tetrachloroethane	19.3		1	1.20	5.00	ug/Kg	11/11/25 10:00	VW111125
541-73-1	1,3-Dichlorobenzene	22.1		1	1.70	5.00	ug/Kg	11/11/25 10:00	VW111125
106-46-7	1,4-Dichlorobenzene	20.8		1	1.60	5.00	ug/Kg	11/11/25 10:00	VW111125
95-50-1	1,2-Dichlorobenzene	19.9		1	1.50	5.00	ug/Kg	11/11/25 10:00	VW111125
96-12-8	1,2-Dibromo-3-Chloropropane	17.8		1	1.80	5.00	ug/Kg	11/11/25 10:00	VW111125
120-82-1	1,2,4-Trichlorobenzene	20.5		1	3.00	5.00	ug/Kg	11/11/25 10:00	VW111125
87-61-6	1,2,3-Trichlorobenzene	19.3		1	3.20	5.00	ug/Kg	11/11/25 10:00	VW111125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	48.5			70 (63) - 130 (155)	97%	SPK: 50		
1868-53-7	Dibromofluoromethane	49.5			70 (70) - 130 (134)	99%	SPK: 50		
2037-26-5	Toluene-d8	51.3			70 (74) - 130 (123)	103%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.5			70 (52) - 130 (138)	101%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	436000							
540-36-3	1,4-Difluorobenzene	783000							
3114-55-4	Chlorobenzene-d5	701000							
3855-82-1	1,4-Dichlorobenzene-d4	322000							

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_W\Data\VW111125\
 Data File : VW032417.D
 Acq On : 11 Nov 2025 10:00
 Operator : SY/MD
 Sample : VW1111SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1111SBS01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/12/2025
 Supervised By :Mahesh Dadoda 11/12/2025

Quant Time: Nov 12 03:43:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	436360	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	782865	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	700699	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.555	152	322112	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	272975	48.523	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	97.040%		
35) Dibromofluoromethane	7.898	113	232064	49.510	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	99.020%		
50) Toluene-d8	10.324	98	922037	51.277	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	102.560%		
62) 4-Bromofluorobenzene	12.617	95	343026	50.499	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	101.000%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.051	85	41489	18.740	ug/l	92
3) Chloromethane	2.253	50	78459	20.675	ug/l	99
4) Vinyl Chloride	2.405	62	100720	21.031	ug/l	94
5) Bromomethane	2.820	94	66815	20.856	ug/l	86
6) Chloroethane	2.966	64	64340	20.534	ug/l	99
7) Trichlorofluoromethane	3.307	101	68862	18.339	ug/l	93
8) Diethyl Ether	3.722	74	60131	19.587	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.100	101	87296	21.342	ug/l	97
10) Methyl Iodide	4.307	142	130946	19.877	ug/l	99
11) Tert butyl alcohol	5.209	59	39926m	82.075	ug/l	
12) 1,1-Dichloroethene	4.075	96	100130	21.349	ug/l	98
13) Acrolein	3.929	56	77344	94.763	ug/l	99
14) Allyl chloride	4.703	41	182315	20.213	ug/l	98
15) Acrylonitrile	5.404	53	162387	91.485	ug/l	99
16) Acetone	4.161	43	170667	101.402	ug/l	99
17) Carbon Disulfide	4.423	76	281977	20.341	ug/l	96
18) Methyl Acetate	4.709	43	71779	17.222	ug/l	100
19) Methyl tert-butyl Ether	5.459	73	193164	19.538	ug/l	98
20) Methylene Chloride	4.953	84	115348	19.164	ug/l	96
21) trans-1,2-Dichloroethene	5.459	96	108024	20.142	ug/l	98
22) Diisopropyl ether	6.343	45	374441	20.390	ug/l	94
23) Vinyl Acetate	6.282	43	1207298	95.955	ug/l	99
24) 1,1-Dichloroethane	6.246	63	207089	20.583	ug/l	99
25) 2-Butanone	7.191	43	224145	90.396	ug/l	100
26) 2,2-Dichloropropane	7.191	77	112486	20.061	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	129519	20.212	ug/l	99
28) Bromochloromethane	7.526	49	92254	19.400	ug/l	99
29) Tetrahydrofuran	7.550	42	137114	87.122	ug/l	100
30) Chloroform	7.691	83	204053	20.717	ug/l	97
31) Cyclohexane	7.971	56	193811	20.824	ug/l	96
32) 1,1,1-Trichloroethane	7.886	97	146541	20.826	ug/l	99
36) 1,1-Dichloropropene	8.093	75	146806	21.257	ug/l	99
37) Ethyl Acetate	7.270	43	95387	18.575	ug/l	98
38) Carbon Tetrachloride	8.081	117	129945	21.176	ug/l	97
39) Methylcyclohexane	9.343	83	186531	20.849	ug/l	96
40) Benzene	8.337	78	465167	20.916	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032417.D
 Acq On : 11 Nov 2025 10:00
 Operator : SY/MD
 Sample : VW1111SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1111SBS01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/12/2025
 Supervised By :Mahesh Dadoda 11/12/2025

Quant Time: Nov 12 03:43:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.496	41	51421	18.228	ug/l	97
42) 1,2-Dichloroethane	8.410	62	132166	20.232	ug/l	100
43) Isopropyl Acetate	8.434	43	166641	18.326	ug/l	98
44) Trichloroethene	9.099	130	105263	20.340	ug/l	99
45) 1,2-Dichloropropane	9.373	63	114301	20.640	ug/l	98
46) Dibromomethane	9.465	93	65964	20.384	ug/l	98
47) Bromodichloromethane	9.648	83	148960	20.179	ug/l	96
48) Methyl methacrylate	9.440	41	82354	19.059	ug/l	99
49) 1,4-Dioxane	9.465	88	15786	348.214	ug/l #	98
51) 4-Methyl-2-Pentanone	10.215	43	462881	92.081	ug/l	100
52) Toluene	10.391	92	291874	21.247	ug/l	98
53) t-1,3-Dichloropropene	10.611	75	148545	19.539	ug/l	99
54) cis-1,3-Dichloropropene	10.074	75	177591	20.200	ug/l	99
55) 1,1,2-Trichloroethane	10.788	97	88696	19.979	ug/l	96
56) Ethyl methacrylate	10.647	69	126877	18.627	ug/l	99
57) 1,3-Dichloropropane	10.934	76	160122	20.194	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.928	63	354300	97.670	ug/l	100
59) 2-Hexanone	10.971	43	337174	91.677	ug/l	98
60) Dibromochloromethane	11.129	129	94974	19.157	ug/l	99
61) 1,2-Dibromoethane	11.233	107	84500	19.543	ug/l	96
64) Tetrachloroethene	10.861	164	88528	21.335	ug/l	88
65) Chlorobenzene	11.659	112	312387	20.684	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.726	131	94205	20.155	ug/l	98
67) Ethyl Benzene	11.726	91	536421	20.528	ug/l	100
68) m/p-Xylenes	11.836	106	410106	41.799	ug/l	98
69) o-Xylene	12.165	106	187804	19.991	ug/l	97
70) Styrene	12.178	104	337079	20.858	ug/l	100
71) Bromoform	12.348	173	50121	18.105	ug/l #	99
73) Isopropylbenzene	12.464	105	489968	20.711	ug/l	100
74) N-amyl acetate	12.269	43	152380	18.536	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.714	83	108555	19.335	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	79285m	17.951	ug/l	
77) Bromobenzene	12.745	156	117001	20.889	ug/l	98
78) n-propylbenzene	12.799	91	621805	21.583	ug/l	98
79) 2-Chlorotoluene	12.891	91	363914	20.692	ug/l	100
80) 1,3,5-Trimethylbenzene	12.940	105	409190	20.966	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.507	75	34259	17.766	ug/l	94
82) 4-Chlorotoluene	12.982	91	390845	21.367	ug/l	100
83) tert-Butylbenzene	13.202	119	359916	21.199	ug/l	98
84) 1,2,4-Trimethylbenzene	13.245	105	418744	21.094	ug/l	99
85) sec-Butylbenzene	13.379	105	533899	21.115	ug/l	99
86) p-Isopropyltoluene	13.494	119	442367	21.189	ug/l	99
87) 1,3-Dichlorobenzene	13.494	146	234557	22.087	ug/l	94
88) 1,4-Dichlorobenzene	13.574	146	226602	20.828	ug/l	98
89) n-Butylbenzene	13.818	91	428538	21.011	ug/l	99
90) Hexachloroethane	14.086	117	77763	20.659	ug/l	98
91) 1,2-Dichlorobenzene	13.866	146	194313	19.932	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.482	75	17241	17.826	ug/l	97
93) 1,2,4-Trichlorobenzene	15.122	180	127042	20.478	ug/l	100
94) Hexachlorobutadiene	15.226	225	54540	21.164	ug/l	92
95) Naphthalene	15.360	128	283464	18.323	ug/l	100
96) 1,2,3-Trichlorobenzene	15.543	180	108438	19.253	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032417.D
Acq On : 11 Nov 2025 10:00
Operator : SY/MD
Sample : VW1111SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1111SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/12/2025
Supervised By :Mahesh Dadoda 11/12/2025

Quant Time: Nov 12 03:43:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: VY1112SBS01
Lab Sample ID: VY1112SBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3586
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	21.2		1	1.10	5.00	ug/Kg	11/12/25 11:04	VY111225
74-87-3	Chloromethane	19.0		1	1.10	5.00	ug/Kg	11/12/25 11:04	VY111225
75-01-4	Vinyl Chloride	19.3		1	0.79	5.00	ug/Kg	11/12/25 11:04	VY111225
74-83-9	Bromomethane	20.1		1	1.10	5.00	ug/Kg	11/12/25 11:04	VY111225
75-00-3	Chloroethane	19.2		1	1.30	5.00	ug/Kg	11/12/25 11:04	VY111225
75-69-4	Trichlorofluoromethane	21.0		1	1.20	5.00	ug/Kg	11/12/25 11:04	VY111225
76-13-1	1,1,2-Trichlorotrifluoroethane	20.5		1	1.10	5.00	ug/Kg	11/12/25 11:04	VY111225
75-35-4	1,1-Dichloroethene	19.7		1	1.00	5.00	ug/Kg	11/12/25 11:04	VY111225
67-64-1	Acetone	110		1	4.70	25.0	ug/Kg	11/12/25 11:04	VY111225
75-15-0	Carbon Disulfide	19.7		1	1.10	5.00	ug/Kg	11/12/25 11:04	VY111225
1634-04-4	Methyl tert-butyl Ether	19.7		1	0.73	5.00	ug/Kg	11/12/25 11:04	VY111225
79-20-9	Methyl Acetate	15.6		1	1.50	5.00	ug/Kg	11/12/25 11:04	VY111225
75-09-2	Methylene Chloride	20.2		1	3.50	10.0	ug/Kg	11/12/25 11:04	VY111225
156-60-5	trans-1,2-Dichloroethene	19.7		1	0.86	5.00	ug/Kg	11/12/25 11:04	VY111225
75-34-3	1,1-Dichloroethane	19.9		1	0.80	5.00	ug/Kg	11/12/25 11:04	VY111225
110-82-7	Cyclohexane	19.8		1	0.79	5.00	ug/Kg	11/12/25 11:04	VY111225
78-93-3	2-Butanone	110		1	6.50	25.0	ug/Kg	11/12/25 11:04	VY111225
56-23-5	Carbon Tetrachloride	20.4		1	0.97	5.00	ug/Kg	11/12/25 11:04	VY111225
156-59-2	cis-1,2-Dichloroethene	19.6		1	0.75	5.00	ug/Kg	11/12/25 11:04	VY111225
74-97-5	Bromochloromethane	20.2		1	1.20	5.00	ug/Kg	11/12/25 11:04	VY111225
67-66-3	Chloroform	19.6		1	0.84	5.00	ug/Kg	11/12/25 11:04	VY111225
71-55-6	1,1,1-Trichloroethane	20.1		1	0.93	5.00	ug/Kg	11/12/25 11:04	VY111225
108-87-2	Methylcyclohexane	20.0		1	0.91	5.00	ug/Kg	11/12/25 11:04	VY111225
71-43-2	Benzene	20.1		1	0.79	5.00	ug/Kg	11/12/25 11:04	VY111225
107-06-2	1,2-Dichloroethane	20.3		1	0.79	5.00	ug/Kg	11/12/25 11:04	VY111225
79-01-6	Trichloroethene	20.1		1	0.81	5.00	ug/Kg	11/12/25 11:04	VY111225
78-87-5	1,2-Dichloropropane	19.7		1	0.91	5.00	ug/Kg	11/12/25 11:04	VY111225
75-27-4	Bromodichloromethane	20.3		1	0.78	5.00	ug/Kg	11/12/25 11:04	VY111225
108-10-1	4-Methyl-2-Pentanone	100		1	3.60	25.0	ug/Kg	11/12/25 11:04	VY111225
108-88-3	Toluene	20.6		1	0.78	5.00	ug/Kg	11/12/25 11:04	VY111225
10061-02-6	t-1,3-Dichloropropene	19.9		1	0.65	5.00	ug/Kg	11/12/25 11:04	VY111225
10061-01-5	cis-1,3-Dichloropropene	20.0		1	0.62	5.00	ug/Kg	11/12/25 11:04	VY111225
79-00-5	1,1,2-Trichloroethane	19.8		1	0.92	5.00	ug/Kg	11/12/25 11:04	VY111225
591-78-6	2-Hexanone	110		1	3.70	25.0	ug/Kg	11/12/25 11:04	VY111225
124-48-1	Dibromochloromethane	20.1		1	0.87	5.00	ug/Kg	11/12/25 11:04	VY111225
106-93-4	1,2-Dibromoethane	20.1		1	0.88	5.00	ug/Kg	11/12/25 11:04	VY111225
127-18-4	Tetrachloroethene	20.0		1	1.10	5.00	ug/Kg	11/12/25 11:04	VY111225
108-90-7	Chlorobenzene	19.9		1	0.91	5.00	ug/Kg	11/12/25 11:04	VY111225
100-41-4	Ethyl Benzene	20.2		1	0.67	5.00	ug/Kg	11/12/25 11:04	VY111225
179601-23-1	m/p-Xylenes	41.0		1	1.20	10.0	ug/Kg	11/12/25 11:04	VY111225
95-47-6	o-Xylene	19.8		1	0.82	5.00	ug/Kg	11/12/25 11:04	VY111225
100-42-5	Styrene	20.1		1	0.71	5.00	ug/Kg	11/12/25 11:04	VY111225
75-25-2	Bromoform	20.4		1	0.86	5.00	ug/Kg	11/12/25 11:04	VY111225

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: VY1112SBS01
Lab Sample ID: VY1112SBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3586
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	19.8		1	0.78	5.00	ug/Kg	11/12/25 11:04	VY111225
79-34-5	1,1,2,2-Tetrachloroethane	19.7		1	1.20	5.00	ug/Kg	11/12/25 11:04	VY111225
541-73-1	1,3-Dichlorobenzene	19.4		1	1.70	5.00	ug/Kg	11/12/25 11:04	VY111225
106-46-7	1,4-Dichlorobenzene	19.6		1	1.60	5.00	ug/Kg	11/12/25 11:04	VY111225
95-50-1	1,2-Dichlorobenzene	19.6		1	1.50	5.00	ug/Kg	11/12/25 11:04	VY111225
96-12-8	1,2-Dibromo-3-Chloropropane	18.3		1	1.80	5.00	ug/Kg	11/12/25 11:04	VY111225
120-82-1	1,2,4-Trichlorobenzene	18.7		1	3.00	5.00	ug/Kg	11/12/25 11:04	VY111225
87-61-6	1,2,3-Trichlorobenzene	19.0		1	3.20	5.00	ug/Kg	11/12/25 11:04	VY111225

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	49.4			70 (63) - 130 (155)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6			70 (70) - 130 (134)	101%	SPK: 50
2037-26-5	Toluene-d8	51.3			70 (74) - 130 (123)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8			70 (52) - 130 (138)	104%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	546000
540-36-3	1,4-Difluorobenzene	797000
3114-55-4	Chlorobenzene-d5	696000
3855-82-1	1,4-Dichlorobenzene-d4	358000

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\VY111225\
 Data File : VY023754.D
 Acq On : 12 Nov 2025 11:04
 Operator : SY/MD
 Sample : VY1112SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1112SBS01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/14/2025
 Supervised By :Mahesh Dadoda 11/14/2025

Quant Time: Nov 14 03:35:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	546007	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	796865	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	695921	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	358224	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	230153	49.416	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	98.840%		
35) Dibromofluoromethane	7.634	113	251781	50.560	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	101.120%		
50) Toluene-d8	10.109	98	950745	51.252	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	102.500%		
62) 4-Bromofluorobenzene	12.408	95	310594	51.774	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	103.540%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	75861	21.166	ug/l	96
3) Chloromethane	2.074	50	95473	19.035	ug/l	98
4) Vinyl Chloride	2.208	62	125898	19.291	ug/l	99
5) Bromomethane	2.592	94	110591	20.145	ug/l	98
6) Chloroethane	2.739	64	86569	19.192	ug/l	99
7) Trichlorofluoromethane	3.062	101	193065	21.004	ug/l	99
8) Diethyl Ether	3.458	74	51199	20.771	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	103910	20.518	ug/l	99
10) Methyl Iodide	4.007	142	104268	17.436	ug/l	100
11) Tert butyl alcohol	4.854	59	32054	106.733	ug/l	98
12) 1,1-Dichloroethene	3.793	96	96315	19.743	ug/l	94
13) Acrolein	3.659	56	32635	84.546	ug/l	95
14) Allyl chloride	4.385	41	116750	19.662	ug/l	99
15) Acrylonitrile	5.061	53	95226	101.091	ug/l	98
16) Acetone	3.866	43	131027	113.177	ug/l	96
17) Carbon Disulfide	4.110	76	295046	19.705	ug/l	100
18) Methyl Acetate	4.391	43	39801	15.586	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	223019	19.715	ug/l	99
20) Methylene Chloride	4.622	84	112698	20.165	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	108183	19.668	ug/l	98
22) Diisopropyl ether	6.018	45	268058	20.260	ug/l	92
23) Vinyl Acetate	5.964	43	743253	105.267	ug/l	99
24) 1,1-Dichloroethane	5.915	63	175299	19.888	ug/l	99
25) 2-Butanone	6.896	43	143833	107.456	ug/l	99
26) 2,2-Dichloropropane	6.890	77	160319	19.773	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	123095	19.595	ug/l	100
28) Bromochloromethane	7.250	49	68160	20.196	ug/l	99
29) Tetrahydrofuran	7.262	42	70757	99.258	ug/l	100
30) Chloroform	7.427	83	192666	19.591	ug/l	99
31) Cyclohexane	7.701	56	152164	19.823	ug/l	96
32) 1,1,1-Trichloroethane	7.622	97	176895	20.125	ug/l	100
36) 1,1-Dichloropropene	7.835	75	136108	20.454	ug/l	99
37) Ethyl Acetate	6.988	43	55113	21.394	ug/l	96
38) Carbon Tetrachloride	7.823	117	160196	20.432	ug/l	98
39) Methylcyclohexane	9.109	83	170328	20.032	ug/l	98
40) Benzene	8.079	78	422366	20.136	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
 Data File : VY023754.D
 Acq On : 12 Nov 2025 11:04
 Operator : SY/MD
 Sample : VY1112SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1112SBS01

Quant Time: Nov 14 03:35:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/14/2025
 Supervised By :Mahesh Dadoda 11/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	26488	18.837	ug/l	93
42) 1,2-Dichloroethane	8.158	62	107624	20.281	ug/l	98
43) Isopropyl Acetate	8.195	43	98243	20.297	ug/l	98
44) Trichloroethene	8.866	130	121333	20.140	ug/l	100
45) 1,2-Dichloropropane	9.140	63	91399	19.744	ug/l	100
46) Dibromomethane	9.231	93	56733	19.779	ug/l	99
47) Bromodichloromethane	9.426	83	146486	20.256	ug/l	98
48) Methyl methacrylate	9.225	41	42932	18.774	ug/l	93
49) 1,4-Dioxane	9.231	88	11767	400.867	ug/l #	96
51) 4-Methyl-2-Pentanone	9.999	43	266672	103.601	ug/l	99
52) Toluene	10.170	92	275871	20.601	ug/l	97
53) t-1,3-Dichloropropene	10.396	75	121908	19.923	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	146970	20.047	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	75882	19.796	ug/l	98
56) Ethyl methacrylate	10.438	69	85323	20.203	ug/l	99
57) 1,3-Dichloropropane	10.719	76	123192	20.262	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	192429	99.292	ug/l	100
59) 2-Hexanone	10.762	43	202789	107.985	ug/l	99
60) Dibromochloromethane	10.914	129	105980	20.122	ug/l	100
61) 1,2-Dibromoethane	11.018	107	72340	20.109	ug/l	99
64) Tetrachloroethene	10.646	164	144882	20.002	ug/l	95
65) Chlorobenzene	11.444	112	300999	19.868	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	105628	19.717	ug/l	98
67) Ethyl Benzene	11.518	91	495224	20.197	ug/l	97
68) m/p-Xylenes	11.627	106	401550	40.988	ug/l	100
69) o-Xylene	11.956	106	179658	19.839	ug/l	99
70) Styrene	11.969	104	300983	20.144	ug/l	100
71) Bromoform	12.133	173	63763	20.379	ug/l #	99
73) Isopropylbenzene	12.255	105	475092	19.830	ug/l	100
74) N-amyl acetate	12.072	43	78890	19.449	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	75530	19.739	ug/l	98
76) 1,2,3-Trichloropropane	12.560	75	59053m	20.369	ug/l	
77) Bromobenzene	12.536	156	121816	19.601	ug/l	98
78) n-propylbenzene	12.597	91	562853	19.972	ug/l	99
79) 2-Chlorotoluene	12.682	91	322130	19.698	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	392909	20.184	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	25027	19.509	ug/l	99
82) 4-Chlorotoluene	12.779	91	338093	20.047	ug/l	100
83) tert-Butylbenzene	12.999	119	342262	19.305	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	390413	20.249	ug/l	100
85) sec-Butylbenzene	13.176	105	516942	20.215	ug/l	100
86) p-Isopropyltoluene	13.292	119	432225	19.966	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	236767	19.357	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	235098	19.566	ug/l	99
89) n-Butylbenzene	13.621	91	370888	19.703	ug/l	100
90) Hexachloroethane	13.883	117	90499	19.454	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	206816	19.620	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	10802	18.334	ug/l	95
93) 1,2,4-Trichlorobenzene	14.919	180	112897	18.724	ug/l	100
94) Hexachlorobutadiene	15.023	225	74687	18.905	ug/l	98
95) Naphthalene	15.145	128	164618	19.235	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	95857	19.028	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
Data File : VY023754.D
Acq On : 12 Nov 2025 11:04
Operator : SY/MD
Sample : VY1112SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1112SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/14/2025
Supervised By :Mahesh Dadoda 11/14/2025

Quant Time: Nov 14 03:35:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 05 04:41:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

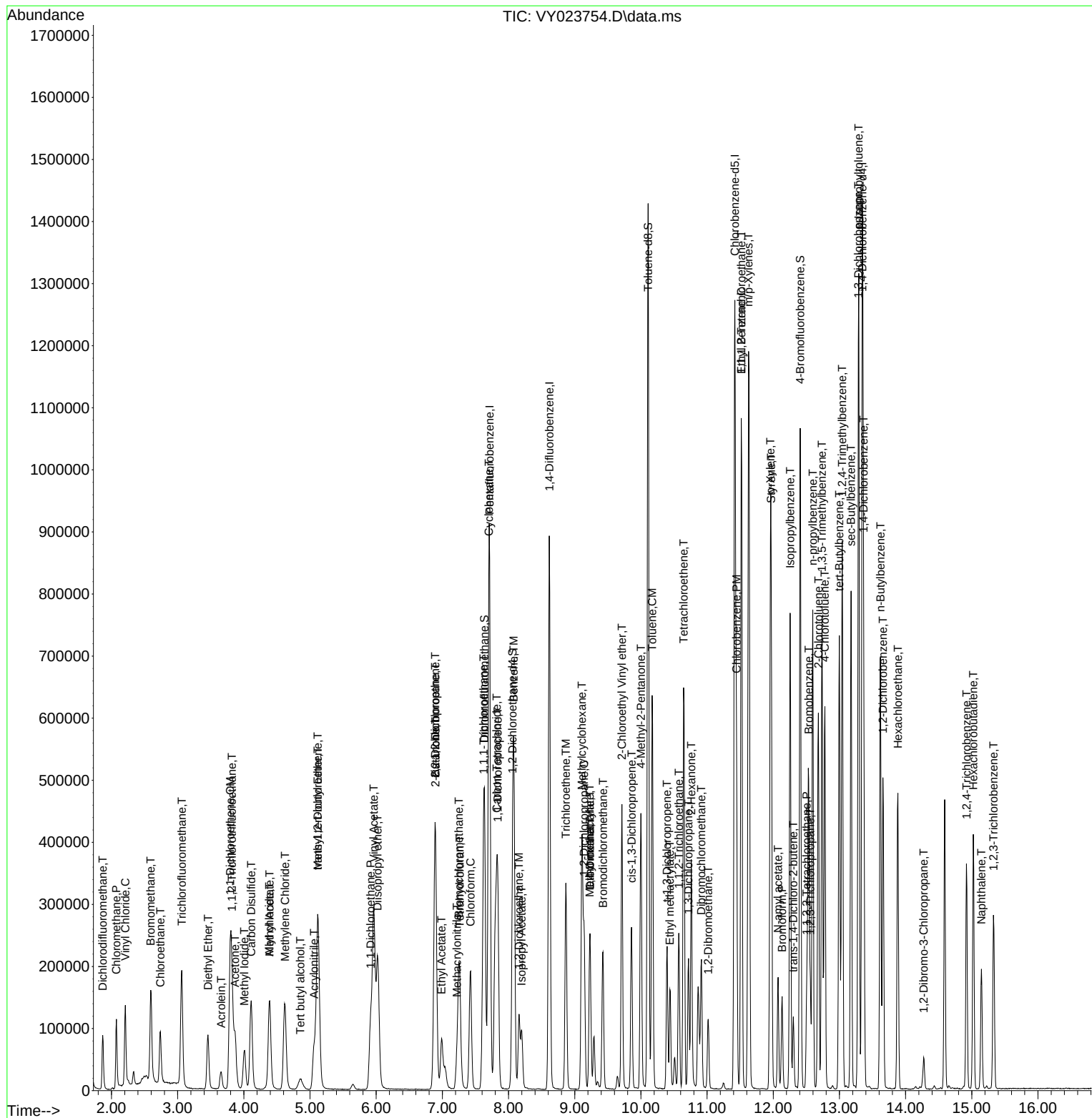
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
 Data File : VY023754.D
 Acq On : 12 Nov 2025 11:04
 Operator : SY/MD
 Sample : VY1112SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/soil
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1112SBS01

Quant Time: Nov 14 03:35:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/14/2025
 Supervised By :Mahesh Dadoda 11/14/2025



Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: VW1111SBSD01
Lab Sample ID: VW1111SBSD01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3586
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	17.2		1	1.10	5.00	ug/Kg	11/11/25 10:21	VW111125
74-87-3	Chloromethane	20.5		1	1.10	5.00	ug/Kg	11/11/25 10:21	VW111125
75-01-4	Vinyl Chloride	20.3		1	0.79	5.00	ug/Kg	11/11/25 10:21	VW111125
74-83-9	Bromomethane	21.1		1	1.10	5.00	ug/Kg	11/11/25 10:21	VW111125
75-00-3	Chloroethane	20.5		1	1.30	5.00	ug/Kg	11/11/25 10:21	VW111125
75-69-4	Trichlorofluoromethane	20.2		1	1.20	5.00	ug/Kg	11/11/25 10:21	VW111125
76-13-1	1,1,2-Trichlorotrifluoroethane	20.1		1	1.10	5.00	ug/Kg	11/11/25 10:21	VW111125
75-35-4	1,1-Dichloroethene	20.3		1	1.00	5.00	ug/Kg	11/11/25 10:21	VW111125
67-64-1	Acetone	110		1	4.70	25.0	ug/Kg	11/11/25 10:21	VW111125
75-15-0	Carbon Disulfide	20.6		1	1.10	5.00	ug/Kg	11/11/25 10:21	VW111125
1634-04-4	Methyl tert-butyl Ether	20.8		1	0.73	5.00	ug/Kg	11/11/25 10:21	VW111125
79-20-9	Methyl Acetate	19.7		1	1.50	5.00	ug/Kg	11/11/25 10:21	VW111125
75-09-2	Methylene Chloride	19.5		1	3.50	10.0	ug/Kg	11/11/25 10:21	VW111125
156-60-5	trans-1,2-Dichloroethene	20.4		1	0.86	5.00	ug/Kg	11/11/25 10:21	VW111125
75-34-3	1,1-Dichloroethane	20.6		1	0.80	5.00	ug/Kg	11/11/25 10:21	VW111125
110-82-7	Cyclohexane	20.0		1	0.79	5.00	ug/Kg	11/11/25 10:21	VW111125
78-93-3	2-Butanone	110		1	6.50	25.0	ug/Kg	11/11/25 10:21	VW111125
56-23-5	Carbon Tetrachloride	19.9		1	0.97	5.00	ug/Kg	11/11/25 10:21	VW111125
156-59-2	cis-1,2-Dichloroethene	20.4		1	0.75	5.00	ug/Kg	11/11/25 10:21	VW111125
74-97-5	Bromochloromethane	20.5		1	1.20	5.00	ug/Kg	11/11/25 10:21	VW111125
67-66-3	Chloroform	21.0		1	0.84	5.00	ug/Kg	11/11/25 10:21	VW111125
71-55-6	1,1,1-Trichloroethane	21.0		1	0.93	5.00	ug/Kg	11/11/25 10:21	VW111125
108-87-2	Methylcyclohexane	19.4		1	0.91	5.00	ug/Kg	11/11/25 10:21	VW111125
71-43-2	Benzene	19.7		1	0.79	5.00	ug/Kg	11/11/25 10:21	VW111125
107-06-2	1,2-Dichloroethane	19.9		1	0.79	5.00	ug/Kg	11/11/25 10:21	VW111125
79-01-6	Trichloroethene	19.5		1	0.81	5.00	ug/Kg	11/11/25 10:21	VW111125
78-87-5	1,2-Dichloropropane	19.7		1	0.91	5.00	ug/Kg	11/11/25 10:21	VW111125
75-27-4	Bromodichloromethane	20.0		1	0.78	5.00	ug/Kg	11/11/25 10:21	VW111125
108-10-1	4-Methyl-2-Pentanone	100		1	3.60	25.0	ug/Kg	11/11/25 10:21	VW111125
108-88-3	Toluene	19.8		1	0.78	5.00	ug/Kg	11/11/25 10:21	VW111125
10061-02-6	t-1,3-Dichloropropene	19.4		1	0.65	5.00	ug/Kg	11/11/25 10:21	VW111125
10061-01-5	cis-1,3-Dichloropropene	19.5		1	0.62	5.00	ug/Kg	11/11/25 10:21	VW111125
79-00-5	1,1,2-Trichloroethane	20.1		1	0.92	5.00	ug/Kg	11/11/25 10:21	VW111125
591-78-6	2-Hexanone	100		1	3.70	25.0	ug/Kg	11/11/25 10:21	VW111125
124-48-1	Dibromochloromethane	19.7		1	0.87	5.00	ug/Kg	11/11/25 10:21	VW111125
106-93-4	1,2-Dibromoethane	19.8		1	0.88	5.00	ug/Kg	11/11/25 10:21	VW111125
127-18-4	Tetrachloroethene	20.5		1	1.10	5.00	ug/Kg	11/11/25 10:21	VW111125
108-90-7	Chlorobenzene	19.7		1	0.91	5.00	ug/Kg	11/11/25 10:21	VW111125
100-41-4	Ethyl Benzene	20.1		1	0.67	5.00	ug/Kg	11/11/25 10:21	VW111125
179601-23-1	m/p-Xylenes	41.0		1	1.20	10.0	ug/Kg	11/11/25 10:21	VW111125
95-47-6	o-Xylene	20.0		1	0.82	5.00	ug/Kg	11/11/25 10:21	VW111125
100-42-5	Styrene	19.7		1	0.71	5.00	ug/Kg	11/11/25 10:21	VW111125
75-25-2	Bromoform	19.5		1	0.86	5.00	ug/Kg	11/11/25 10:21	VW111125

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: VW1111SBSD01
Lab Sample ID: VW1111SBSD01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3586
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	20.4		1	0.78	5.00	ug/Kg	11/11/25 10:21	VW111125
79-34-5	1,1,2,2-Tetrachloroethane	20.6		1	1.20	5.00	ug/Kg	11/11/25 10:21	VW111125
541-73-1	1,3-Dichlorobenzene	20.8		1	1.70	5.00	ug/Kg	11/11/25 10:21	VW111125
106-46-7	1,4-Dichlorobenzene	20.6		1	1.60	5.00	ug/Kg	11/11/25 10:21	VW111125
95-50-1	1,2-Dichlorobenzene	20.9		1	1.50	5.00	ug/Kg	11/11/25 10:21	VW111125
96-12-8	1,2-Dibromo-3-Chloropropane	20.4		1	1.80	5.00	ug/Kg	11/11/25 10:21	VW111125
120-82-1	1,2,4-Trichlorobenzene	20.0		1	3.00	5.00	ug/Kg	11/11/25 10:21	VW111125
87-61-6	1,2,3-Trichlorobenzene	20.3		1	3.20	5.00	ug/Kg	11/11/25 10:21	VW111125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	50.6			70 (63) - 130 (155)	101%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.1			70 (70) - 130 (134)	94%	SPK: 50		
2037-26-5	Toluene-d8	48.0			70 (74) - 130 (123)	96%	SPK: 50		
460-00-4	4-Bromofluorobenzene	46.6			70 (52) - 130 (138)	93%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	419000							
540-36-3	1,4-Difluorobenzene	801000							
3114-55-4	Chlorobenzene-d5	703000							
3855-82-1	1,4-Dichlorobenzene-d4	321000							

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_W\Data\VW111125\
 Data File : VW032418.D
 Acq On : 11 Nov 2025 10:21
 Operator : SY/MD
 Sample : VW1111SBSD01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1111SBSD01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/12/2025
 Supervised By :Mahesh Dadoda 11/12/2025

Quant Time: Nov 12 03:44:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	419398	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	800811	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	702782	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	321153	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	273700	50.619	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 101.240%			
35) Dibromofluoromethane	7.904	113	226016	47.139	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 94.280%			
50) Toluene-d8	10.325	98	883581	48.037	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 96.080%			
62) 4-Bromofluorobenzene	12.617	95	324060	46.638	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 93.280%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.046	85	36690	17.243	ug/l	98
3) Chloromethane	2.253	50	74732	20.490	ug/l	100
4) Vinyl Chloride	2.405	62	93282	20.265	ug/l	98
5) Bromomethane	2.814	94	64959	21.097	ug/l	93
6) Chloroethane	2.966	64	61667	20.477	ug/l	96
7) Trichlorofluoromethane	3.301	101	72929	20.208	ug/l	99
8) Diethyl Ether	3.722	74	60006	20.337	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.106	101	78883	20.065	ug/l	99
10) Methyl Iodide	4.307	142	130307	20.579	ug/l	98
11) Tert butyl alcohol	5.216	59	46510	99.477	ug/l	99
12) 1,1-Dichloroethene	4.076	96	91532	20.305	ug/l	98
13) Acrolein	3.936	56	83157	106.006	ug/l	100
14) Allyl chloride	4.710	41	177040	20.422	ug/l	98
15) Acrylonitrile	5.405	53	170008	99.653	ug/l	98
16) Acetone	4.161	43	182602	112.881	ug/l	99
17) Carbon Disulfide	4.417	76	273905	20.558	ug/l	97
18) Methyl Acetate	4.710	43	79050	19.734	ug/l	99
19) Methyl tert-butyl Ether	5.466	73	197454	20.779	ug/l	99
20) Methylene Chloride	4.954	84	112776	19.494	ug/l	97
21) trans-1,2-Dichloroethene	5.460	96	105086	20.387	ug/l	98
22) Diisopropyl ether	6.338	45	375229	21.259	ug/l	96
23) Vinyl Acetate	6.283	43	1261647	104.330	ug/l	97
24) 1,1-Dichloroethane	6.252	63	198973	20.576	ug/l	99
25) 2-Butanone	7.197	43	253333	106.299	ug/l	99
26) 2,2-Dichloropropane	7.191	77	108403	20.114	ug/l	99
27) cis-1,2-Dichloroethene	7.197	96	125703	20.409	ug/l	98
28) Bromochloromethane	7.532	49	93614	20.482	ug/l	99
29) Tetrahydrofuran	7.551	42	153863	101.718	ug/l	99
30) Chloroform	7.697	83	198684	20.988	ug/l	99
31) Cyclohexane	7.971	56	178622	19.968	ug/l	97
32) 1,1,1-Trichloroethane	7.892	97	141908	20.984	ug/l	98
36) 1,1-Dichloropropene	8.099	75	140998	19.959	ug/l	99
37) Ethyl Acetate	7.276	43	100549	19.141	ug/l	99
38) Carbon Tetrachloride	8.081	117	124977	19.910	ug/l	91
39) Methylcyclohexane	9.343	83	177867	19.435	ug/l	96
40) Benzene	8.337	78	448366	19.708	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032418.D
 Acq On : 11 Nov 2025 10:21
 Operator : SY/MD
 Sample : VW1111SBSD01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1111SBSD01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/12/2025
 Supervised By :Mahesh Dadoda 11/12/2025

Quant Time: Nov 12 03:44:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	59648	20.670	ug/l	95
42) 1,2-Dichloroethane	8.410	62	133173	19.929	ug/l	99
43) Isopropyl Acetate	8.435	43	184803	19.868	ug/l	100
44) Trichloroethene	9.099	130	103283	19.510	ug/l	99
45) 1,2-Dichloropropane	9.380	63	111670	19.713	ug/l	99
46) Dibromomethane	9.465	93	65788	19.874	ug/l	96
47) Bromodichloromethane	9.654	83	151191	20.022	ug/l	98
48) Methyl methacrylate	9.441	41	82916	18.759	ug/l	95
49) 1,4-Dioxane	9.471	88	17159	370.018	ug/l #	89
51) 4-Methyl-2-Pentanone	10.215	43	516256	100.397	ug/l	100
52) Toluene	10.392	92	277679	19.760	ug/l	99
53) t-1,3-Dichloropropene	10.611	75	150828	19.395	ug/l	95
54) cis-1,3-Dichloropropene	10.081	75	174953	19.454	ug/l	99
55) 1,1,2-Trichloroethane	10.788	97	91425	20.132	ug/l	94
56) Ethyl methacrylate	10.648	69	133070	19.098	ug/l	99
57) 1,3-Dichloropropane	10.934	76	162811	20.073	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	374443	100.910	ug/l	100
59) 2-Hexanone	10.971	43	379060	100.756	ug/l	99
60) Dibromochloromethane	11.129	129	99792	19.678	ug/l	99
61) 1,2-Dibromoethane	11.239	107	87650	19.817	ug/l	96
64) Tetrachloroethene	10.867	164	85265	20.488	ug/l	89
65) Chlorobenzene	11.654	112	297697	19.653	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.733	131	92643	19.762	ug/l	99
67) Ethyl Benzene	11.727	91	525915	20.066	ug/l	98
68) m/p-Xylenes	11.837	106	403624	41.016	ug/l	98
69) o-Xylene	12.166	106	188000	19.953	ug/l	100
70) Styrene	12.178	104	319683	19.723	ug/l	99
71) Bromoform	12.349	173	54244	19.536	ug/l #	99
73) Isopropylbenzene	12.464	105	481887	20.430	ug/l	98
74) N-amyl acetate	12.269	43	164118	20.024	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.714	83	115575	20.647	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	84270m	19.137	ug/l	
77) Bromobenzene	12.745	156	109510	19.610	ug/l	92
78) n-propylbenzene	12.800	91	601404	20.937	ug/l	98
79) 2-Chlorotoluene	12.891	91	363834	20.749	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	398351	20.471	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.513	75	38164	19.850	ug/l	98
82) 4-Chlorotoluene	12.989	91	377160	20.680	ug/l	98
83) tert-Butylbenzene	13.202	119	342260	20.219	ug/l	98
84) 1,2,4-Trimethylbenzene	13.245	105	409387	20.685	ug/l	99
85) sec-Butylbenzene	13.379	105	502121	19.918	ug/l	100
86) p-Isopropyltoluene	13.495	119	417419	20.054	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	220539	20.829	ug/l	99
88) 1,4-Dichlorobenzene	13.574	146	223516	20.605	ug/l	98
89) n-Butylbenzene	13.818	91	412879	20.303	ug/l	99
90) Hexachloroethane	14.086	117	77624	20.684	ug/l	90
91) 1,2-Dichlorobenzene	13.867	146	203564	20.943	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.482	75	19683	20.411	ug/l	97
93) 1,2,4-Trichlorobenzene	15.129	180	123783	20.013	ug/l	95
94) Hexachlorobutadiene	15.226	225	54615	21.257	ug/l	97
95) Naphthalene	15.360	128	303247	19.660	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	113920	20.287	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
Data File : VW032418.D
Acq On : 11 Nov 2025 10:21
Operator : SY/MD
Sample : VW1111SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1111SBSD01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/12/2025
Supervised By :Mahesh Dadoda 11/12/2025

Quant Time: Nov 12 03:44:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integration Report

Sequence:

VW111025

Instrument

MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VW032406.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:31 AM	sam	11/11/2025 12:29:21 PM	Peak Integrated by Software
VSTDICC005	VW032406.D	Dichlorodifluoromethane	Amit	11/11/2025 9:30:31 AM	sam	11/11/2025 12:29:21 PM	Peak Integrated by Software
VSTDICC010	VW032407.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:35 AM	sam	11/11/2025 12:29:25 PM	Peak Integrated by Software
VSTDICC010	VW032407.D	Dichlorodifluoromethane	Amit	11/11/2025 9:30:35 AM	sam	11/11/2025 12:29:25 PM	Peak Integrated by Software
VSTDICC020	VW032408.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:39 AM	sam	11/11/2025 12:30:15 PM	Peak Integrated by Software
VSTDICCC050	VW032409.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:43 AM	sam	11/11/2025 12:29:38 PM	Peak Integrated by Software
VSTDICC100	VW032410.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:48 AM	sam	11/11/2025 12:30:21 PM	Peak Integrated by Software
VSTDICC150	VW032411.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:52 AM	sam	11/11/2025 12:29:30 PM	Peak Integrated by Software
VSTDICV050	VW032413.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:57 AM	sam	11/11/2025 12:29:34 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VW111125

Instrument

MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VW032415.D	1,2,3-Trichloropropane	Amit	11/12/2025 3:51:57 PM	MMDadoda	11/12/2025 3:52:24 PM	Peak Integrated by Software
VW1111SBS01	VW032417.D	1,2,3-Trichloropropane	Amit	11/12/2025 3:52:00 PM	MMDadoda	11/12/2025 3:52:27 PM	Peak Integrated by Software
VW1111SBS01	VW032417.D	Tert butyl alcohol	Amit	11/12/2025 3:52:00 PM	MMDadoda	11/12/2025 3:52:27 PM	Peak Integrated by Software
VW1111SBSD0 1	VW032418.D	1,2,3-Trichloropropane	Amit	11/12/2025 3:52:04 PM	MMDadoda	11/12/2025 3:52:32 PM	Peak Integrated by Software
Q3586-01	VW032427.D	Tert butyl alcohol	Amit	11/12/2025 3:52:19 PM	MMDadoda	11/12/2025 3:53:27 PM	Peak Integrated by Software
VSTDCCC050	VW032435.D	1,2,3-Trichloropropane	Amit	11/12/2025 3:52:30 PM	MMDadoda	11/12/2025 3:53:39 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VY110425	Instrument	MSVOA_y
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VY023661.D	1,2,3-Trichloropropane	Amit	11/5/2025 2:39:41 PM	MMDadoda	11/5/2025 2:42:20 PM	Peak Integrated by Software
VSTDIC010	VY023662.D	1,2,3-Trichloropropane	Amit	11/5/2025 2:39:45 PM	MMDadoda	11/5/2025 2:42:23 PM	Peak Integrated by Software
VSTDIC010	VY023662.D	Methacrylonitrile	Amit	11/5/2025 2:39:45 PM	MMDadoda	11/5/2025 2:42:23 PM	Peak Integrated by Software
VSTDIC020	VY023663.D	1,2,3-Trichloropropane	Amit	11/5/2025 2:39:50 PM	MMDadoda	11/5/2025 2:42:26 PM	Peak Integrated by Software
VSTDIC020	VY023663.D	Methacrylonitrile	Amit	11/5/2025 2:39:50 PM	MMDadoda	11/5/2025 2:42:26 PM	Peak Integrated by Software
VSTDICCC050	VY023664.D	1,2,3-Trichloropropane	Amit	11/5/2025 2:39:54 PM	MMDadoda	11/5/2025 2:42:29 PM	Peak Integrated by Software
VSTDIC100	VY023665.D	1,2,3-Trichloropropane	Amit	11/5/2025 2:41:22 PM	MMDadoda	11/5/2025 2:42:32 PM	Peak Integrated by Software
VSTDIC150	VY023666.D	1,2,3-Trichloropropane	Amit	11/5/2025 2:39:59 PM	MMDadoda	11/5/2025 2:42:36 PM	Peak Integrated by Software
VSTDICV050	VY023668.D	1,2,3-Trichloropropane	Amit	11/5/2025 2:40:02 PM	MMDadoda	11/5/2025 2:42:40 PM	Peak Integrated by Software
VSTDCCC050	VY023677.D	1,2,3-Trichloropropane	Amit	11/5/2025 2:41:12 PM	MMDadoda	11/5/2025 2:42:58 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY111225

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY023752.D	1,2,3-Trichloropropane	Amit	11/14/2025 9:57:17 AM	MMDadoda	11/14/2025 10:52:53 AM	Peak Integrated by Software
VSTDCCC050	VY023752.D	Methacrylonitrile	Amit	11/14/2025 9:57:17 AM	MMDadoda	11/14/2025 10:52:53 AM	Peak Integrated by Software
VY1112SBS01	VY023754.D	1,2,3-Trichloropropane	Amit	11/14/2025 9:57:20 AM	MMDadoda	11/14/2025 10:52:56 AM	Peak Integrated by Software
Q3586-01RE	VY023759.D	Acetone	Amit	11/14/2025 9:57:26 AM	MMDadoda	11/14/2025 10:53:03 AM	Peak Integrated by Software
VSTDCCC050	VY023772.D	1,2,3-Trichloropropane	Amit	11/14/2025 9:57:30 AM	MMDadoda	11/14/2025 10:53:06 AM	Peak Integrated by Software
VSTDCCC050	VY023772.D	Methacrylonitrile	Amit	11/14/2025 9:57:30 AM	MMDadoda	11/14/2025 10:53:06 AM	Peak Integrated by Software

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QCBatch ID # VW111025

Review By	Amit Patel	Review On	11/11/2025 7:21:42 AM	
Supervise By	Maresh Dadoda	Supervise On	11/17/2025 1:37:22 PM	
SubDirectory	VW111025	HP Acquire Method	VP134934	HP Processing Method
STD. NAME		STD REF.#		
Tune/Reschk	VP136122			
Initial Calibration Stds	VP136123,VP136124,VP136125,VP136126,VP136127,VP136128			
CCC				
Internal Standard/PEM	VP133934			
ICV/I.BLK	VP136129			
Surrogate Standard				
MS/MSD Standard				
LCS Standard				

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW032405.D	10 Nov 2025 14:20	SY/MD	Ok
2	VSTDIC005	VW032406.D	10 Nov 2025 15:11	SY/MD	Ok,M
3	VSTDIC010	VW032407.D	10 Nov 2025 15:33	SY/MD	Ok,M
4	VSTDIC020	VW032408.D	10 Nov 2025 15:55	SY/MD	Ok,M
5	VSTDIC050	VW032409.D	10 Nov 2025 16:17	SY/MD	Ok,M
6	VSTDIC100	VW032410.D	10 Nov 2025 16:39	SY/MD	Ok,M
7	VSTDIC150	VW032411.D	10 Nov 2025 17:00	SY/MD	Ok,M
8	VIBLK	VW032412.D	10 Nov 2025 17:22	SY/MD	Ok
9	VSTDICV050	VW032413.D	10 Nov 2025 17:44	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QC Batch ID # VW111125

Review By	Amit Patel	Review On	11/13/2025 1:51:53 PM		
Supervise By	Maresh Dadoda	Supervise On	11/13/2025 1:52:16 PM		
SubDirectory	VW111125	HP Acquire Method	MSVOA_W	HP Processing Method	82w111025s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP136131			
CCC		VP136134,VP136135,LOD VP136136,VP136137,LOQ VP136138			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW032414.D	11 Nov 2025 07:26	SY/MD	Ok
2	VSTDCCC050	VW032415.D	11 Nov 2025 08:31	SY/MD	Ok,M
3	VW1111SBL01	VW032416.D	11 Nov 2025 09:34	SY/MD	Ok
4	VW1111SBS01	VW032417.D	11 Nov 2025 10:00	SY/MD	Ok,M
5	VW1111SBSD01	VW032418.D	11 Nov 2025 10:21	SY/MD	Ok,M
6	Q3483-23	VW032419.D	11 Nov 2025 11:01	SY/MD	Not Ok
7	VIBLK	VW032420.D	11 Nov 2025 11:22	SY/MD	Ok
8	Q3483-23DL	VW032421.D	11 Nov 2025 11:44	SY/MD	Not Ok
9	Q3530-01	VW032422.D	11 Nov 2025 12:06	SY/MD	Ok,M
10	Q3530-01	VW032423.D	11 Nov 2025 12:28	SY/MD	Ok,M
11	Q3530-02	VW032424.D	11 Nov 2025 12:49	SY/MD	Ok,M
12	Q3583-04	VW032425.D	11 Nov 2025 13:11	SY/MD	Ok
13	Q3582-04	VW032426.D	11 Nov 2025 13:32	SY/MD	ReRun
14	Q3586-01	VW032427.D	11 Nov 2025 13:54	SY/MD	ReRun
15	Q3586-02	VW032428.D	11 Nov 2025 14:15	SY/MD	ReRun
16	Q3586-03	VW032429.D	11 Nov 2025 14:37	SY/MD	ReRun
17	Q3590-02	VW032430.D	11 Nov 2025 14:59	SY/MD	Dilution
18	Q3599-01	VW032431.D	11 Nov 2025 15:21	SY/MD	ReRun
19	Q3600-01	VW032432.D	11 Nov 2025 15:43	SY/MD	ReRun
20	Q3598-01	VW032433.D	11 Nov 2025 16:05	SY/MD	ReRun
21	VIBLK	VW032434.D	11 Nov 2025 16:27	SY/MD	Ok

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QC Batch ID # VW111125

Review By	Amit Patel	Review On	11/13/2025 1:51:53 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/13/2025 1:52:16 PM		
SubDirectory	VW111125	HP Acquire Method	MSVOA_W	HP Processing Method	82w111025s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP136131			
CCC		VP136134,VP136135,LOD VP136136,VP136137,LOQ VP136138			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	VSTDCCC050	VW032435.D	11 Nov 2025 16:49	SY/MD	Ok,M
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M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY110425

Review By	Amit Patel	Review On	11/5/2025 2:42:53 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/6/2025 8:39:21 AM		
SubDirectory	VY110425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y110425s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP136031			
Initial Calibration Stds		VP136032,VP136033,VP136034,VP136035,VP136036,VP136037			
CCC		VP136050,LOD VP136051,VP136052,LOQ VP136053			
Internal Standard/PEM		VP133934			
ICV/I.BLK		VP136038			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY023660.D	04 Nov 2025 08:11	SY/MD	Ok
2	VSTDIC005	VY023661.D	04 Nov 2025 09:19	SY/MD	Ok,M
3	VSTDIC010	VY023662.D	04 Nov 2025 09:42	SY/MD	Ok,M
4	VSTDIC020	VY023663.D	04 Nov 2025 10:19	SY/MD	Ok,M
5	VSTDIC050	VY023664.D	04 Nov 2025 10:42	SY/MD	Ok,M
6	VSTDIC100	VY023665.D	04 Nov 2025 11:05	SY/MD	Ok,M
7	VSTDIC150	VY023666.D	04 Nov 2025 11:27	SY/MD	Ok,M
8	VIBLK	VY023667.D	04 Nov 2025 11:51	SY/MD	Ok
9	VSTDICV050	VY023668.D	04 Nov 2025 12:14	SY/MD	Ok,M
10	VY1104SBL01	VY023669.D	04 Nov 2025 12:37	SY/MD	Ok
11	VY1104SBS01	VY023670.D	04 Nov 2025 13:14	SY/MD	Ok,M
12	VY1104SBSD01	VY023671.D	04 Nov 2025 13:37	SY/MD	Ok,M
13	Q3530-01	VY023672.D	04 Nov 2025 14:08	SY/MD	Ok,M
14	Q3530-01	VY023673.D	04 Nov 2025 14:31	SY/MD	Ok,M
15	Q3530-02	VY023674.D	04 Nov 2025 14:53	SY/MD	Ok,M
16	Q3532-03	VY023675.D	04 Nov 2025 15:16	SY/MD	Ok
17	Q3532-07	VY023676.D	04 Nov 2025 15:40	SY/MD	Ok
18	VSTDCCC050	VY023677.D	04 Nov 2025 16:26	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY111225

Review By	Amit Patel	Review On	11/14/2025 12:33:40 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/17/2025 9:25:17 AM		
SubDirectory	VY111225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y110425s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP136179			
CCC		VP136182,VP136183			
Internal Standard/PEM		VP136146			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY023751.D	12 Nov 2025 09:23	SY/MD	Ok
2	VSTDCCC050	VY023752.D	12 Nov 2025 10:01	SY/MD	Ok,M
3	VY1112SBL01	VY023753.D	12 Nov 2025 10:37	SY/MD	Ok
4	VY1112SBS01	VY023754.D	12 Nov 2025 11:04	SY/MD	Ok,M
5	VY1112SBSD01	VY023755.D	12 Nov 2025 11:27	SY/MD	Ok,M
6	Q3599-01	VY023756.D	12 Nov 2025 12:04	SY/MD	Ok,M
7	Q3598-01	VY023757.D	12 Nov 2025 12:27	SY/MD	Ok
8	Q3582-04RE	VY023758.D	12 Nov 2025 12:51	SY/MD	Confirms
9	Q3586-01RE	VY023759.D	12 Nov 2025 13:14	SY/MD	Confirms
10	Q3586-02RE	VY023760.D	12 Nov 2025 13:38	SY/MD	Confirms
11	Q3586-03	VY023761.D	12 Nov 2025 14:01	SY/MD	Ok
12	Q3600-01	VY023762.D	12 Nov 2025 14:24	SY/MD	Ok
13	Q3609-02	VY023763.D	12 Nov 2025 14:57	SY/MD	Ok
14	Q3609-05	VY023764.D	12 Nov 2025 15:21	SY/MD	Ok
15	Q3609-08	VY023765.D	12 Nov 2025 15:44	SY/MD	Ok
16	Q3609-11	VY023766.D	12 Nov 2025 16:08	SY/MD	Ok
17	Q3609-14	VY023767.D	12 Nov 2025 16:31	SY/MD	Ok
18	Q3614-01	VY023768.D	12 Nov 2025 16:55	SY/MD	Ok
19	Q3614-02	VY023769.D	12 Nov 2025 17:18	SY/MD	Ok
20	Q3614-03	VY023770.D	12 Nov 2025 17:42	SY/MD	Ok
21	VIBLK	VY023771.D	12 Nov 2025 18:05	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY111225

Review By	Amit Patel	Review On	11/14/2025 12:33:40 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/17/2025 9:25:17 AM		
SubDirectory	VY111225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y110425s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP136179			
CCC		VP136182,VP136183			
Internal Standard/PEM		VP136146			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	VSTDCCC050	VY023772.D	12 Nov 2025 18:28	SY/MD	Ok,M
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M : Manual Integration

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW111025

Review By	Amit Patel	Review On	11/11/2025 7:21:42 AM
Supervise By	Maresh Dadoda	Supervise On	11/17/2025 1:37:22 PM
SubDirectory	VW111025	HP Acquire Method	VP134934 HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk	VP136122
Initial Calibration Stds	VP136123,VP136124,VP136125,VP136126,VP136127,VP136128
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP136129
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW032405.D	10 Nov 2025 14:20		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VW032406.D	10 Nov 2025 15:11		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VW032407.D	10 Nov 2025 15:33		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VW032408.D	10 Nov 2025 15:55		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VW032409.D	10 Nov 2025 16:17		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VW032410.D	10 Nov 2025 16:39		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VW032411.D	10 Nov 2025 17:00		SY/MD	Ok,M
8	VIBLK	VIBLK	VW032412.D	10 Nov 2025 17:22		SY/MD	Ok
9	VSTDICV050	ICVVW111025	VW032413.D	10 Nov 2025 17:44		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW111125

Review By	Amit Patel	Review On	11/13/2025 1:51:53 PM
Supervise By	Maresh Dadoda	Supervise On	11/13/2025 1:52:16 PM
SubDirectory	VW111125	HP Acquire Method	MSVOA_W HP Processing Method 82w111025s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP136131
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136134,VP136135,LOD VP136136,VP136137,LOQ VP136138 VP133934

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW032414.D	11 Nov 2025 07:26		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VW032415.D	11 Nov 2025 08:31		SY/MD	Ok,M
3	VW1111SBL01	VW1111SBL01	VW032416.D	11 Nov 2025 09:34		SY/MD	Ok
4	VW1111SBS01	VW1111SBS01	VW032417.D	11 Nov 2025 10:00		SY/MD	Ok,M
5	VW1111SBSD01	VW1111SBSD01	VW032418.D	11 Nov 2025 10:21		SY/MD	Ok,M
6	Q3483-23	HW1025-PT-VOA-SOIL	VW032419.D	11 Nov 2025 11:01	Need 4X;Already analyzed	SY/MD	Not Ok
7	VIBLK	VIBLK	VW032420.D	11 Nov 2025 11:22		SY/MD	Ok
8	Q3483-23DL	HW1025-PT-VOA-SOIL	VW032421.D	11 Nov 2025 11:44	Already analyzed	SY/MD	Not Ok
9	Q3530-01	LOD-MDL-SOIL-01-QT	VW032422.D	11 Nov 2025 12:06		SY/MD	Ok,M
10	Q3530-01	LOD-MDL-SOIL-01-QT	VW032423.D	11 Nov 2025 12:28		SY/MD	Ok,M
11	Q3530-02	LOQ-SOIL-02-QT4-202	VW032424.D	11 Nov 2025 12:49		SY/MD	Ok,M
12	Q3583-04	CHRT27080	VW032425.D	11 Nov 2025 13:11	vial-A	SY/MD	Ok
13	Q3582-04	RT4912	VW032426.D	11 Nov 2025 13:32	vial-A Internal Standard Fail	SY/MD	ReRun
14	Q3586-01	SED-1	VW032427.D	11 Nov 2025 13:54	vial-A Surrogate Fail	SY/MD	ReRun
15	Q3586-02	SED-2	VW032428.D	11 Nov 2025 14:15	vial-A Surrogate Fail	SY/MD	ReRun
16	Q3586-03	SED-3	VW032429.D	11 Nov 2025 14:37	vial-A Surrogate Fail	SY/MD	ReRun
17	Q3590-02	MOO-25-0314-0316-CC	VW032430.D	11 Nov 2025 14:59	vial-A Internal Standard Fail;Need MeOH	SY/MD	Dilution

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW111125

Review By	Amit Patel	Review On	11/13/2025 1:51:53 PM
Supervise By	Maresh Dadoda	Supervise On	11/13/2025 1:52:16 PM
SubDirectory	VW111125	HP Acquire Method	MSVOA_W HP Processing Method 82w111025s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136131		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136134,VP136135,LOD VP136136,VP136137,LOQ VP136138 VP133934		

18	Q3599-01	LIVINGSTON-SOIL	VW032431.D	11 Nov 2025 15:21	vial-A Surrogate Fail	SY/MD	ReRun
19	Q3600-01	CENTRAL-ROW-CONC	VW032432.D	11 Nov 2025 15:43	vial-A Surrogate Fail	SY/MD	ReRun
20	Q3598-01	EO-CONCRETE	VW032433.D	11 Nov 2025 16:05	vial-A Surrogate Fail	SY/MD	ReRun
21	VIBLK	VIBLK	VW032434.D	11 Nov 2025 16:27		SY/MD	Ok
22	VSTDCCC050	VSTDCCC050EC	VW032435.D	11 Nov 2025 16:49		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY110425

Review By	Amit Patel	Review On	11/5/2025 2:42:53 PM
Supervise By	Mahesh Dadoda	Supervise On	11/6/2025 8:39:21 AM
SubDirectory	VY110425	HP Acquire Method	MSVOA_Y HP Processing Method 82y110425s.m
STD. NAME	STD REF.#		
Tune/Reschk	VP136031		
Initial Calibration Stds	VP136032,VP136033,VP136034,VP136035,VP136036,VP136037		
CCC	VP136050,LOD VP136051,VP136052,LOQ VP136053		
Internal Standard/PEM	VP133934		
ICV/I.BLK	VP136038		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023660.D	04 Nov 2025 08:11		SY/MD	Ok
2	VSTDIC005	VSTDIC005	VY023661.D	04 Nov 2025 09:19		SY/MD	Ok,M
3	VSTDIC010	VSTDIC010	VY023662.D	04 Nov 2025 09:42		SY/MD	Ok,M
4	VSTDIC020	VSTDIC020	VY023663.D	04 Nov 2025 10:19		SY/MD	Ok,M
5	VSTDIC050	VSTDIC050	VY023664.D	04 Nov 2025 10:42	Comp. #95 on Linear Regression	SY/MD	Ok,M
6	VSTDIC100	VSTDIC100	VY023665.D	04 Nov 2025 11:05		SY/MD	Ok,M
7	VSTDIC150	VSTDIC150	VY023666.D	04 Nov 2025 11:27		SY/MD	Ok,M
8	VIBLK	VIBLK	VY023667.D	04 Nov 2025 11:51		SY/MD	Ok
9	VSTDICV050	ICVVY110425	VY023668.D	04 Nov 2025 12:14		SY/MD	Ok,M
10	VY1104SBL01	VY1104SBL01	VY023669.D	04 Nov 2025 12:37		SY/MD	Ok
11	VY1104SBS01	VY1104SBS01	VY023670.D	04 Nov 2025 13:14		SY/MD	Ok,M
12	VY1104SBSD01	VY1104SBSD01	VY023671.D	04 Nov 2025 13:37		SY/MD	Ok,M
13	Q3530-01	LOD-MDL-SOIL-01-QT	VY023672.D	04 Nov 2025 14:08		SY/MD	Ok,M
14	Q3530-01	LOD-MDL-SOIL-01-QT	VY023673.D	04 Nov 2025 14:31		SY/MD	Ok,M
15	Q3530-02	LOQ-SOIL-02-QT4-202	VY023674.D	04 Nov 2025 14:53		SY/MD	Ok,M
16	Q3532-03	TP-1-VOC	VY023675.D	04 Nov 2025 15:16	vial-A	SY/MD	Ok
17	Q3532-07	TP-2-VOC	VY023676.D	04 Nov 2025 15:40	vial-A	SY/MD	Ok
18	VSTDCCC050	VSTDCCC050EC	VY023677.D	04 Nov 2025 16:26		SY/MD	Ok,M

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY110425

Review By	Amit Patel	Review On	11/5/2025 2:42:53 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/6/2025 8:39:21 AM		
SubDirectory	VY110425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y110425s.m
STD. NAME	STD REF.#				
Tune/Reschk	VP136031				
Initial Calibration Stds	VP136032,VP136033,VP136034,VP136035,VP136036,VP136037				
CCC	VP136050,LOD VP136051,VP136052,LOQ VP136053				
Internal Standard/PEM	VP133934				
ICV/I.BLK	VP136038				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY111225

Review By	Amit Patel	Review On	11/14/2025 12:33:40 PM
Supervise By	Maresh Dadoda	Supervise On	11/17/2025 9:25:17 AM
SubDirectory	VY111225	HP Acquire Method	MSVOA_Y HP Processing Method 82y110425s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136179		
CCC	VP136182,VP136183		
Internal Standard/PEM	VP136146		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023751.D	12 Nov 2025 09:23		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY023752.D	12 Nov 2025 10:01		SY/MD	Ok,M
3	VY1112SBL01	VY1112SBL01	VY023753.D	12 Nov 2025 10:37		SY/MD	Ok
4	VY1112SBS01	VY1112SBS01	VY023754.D	12 Nov 2025 11:04		SY/MD	Ok,M
5	VY1112SBSD01	VY1112SBSD01	VY023755.D	12 Nov 2025 11:27		SY/MD	Ok,M
6	Q3599-01	LIVINGSTON-SOIL	VY023756.D	12 Nov 2025 12:04	vial-B	SY/MD	Ok,M
7	Q3598-01	EO-CONCRETE	VY023757.D	12 Nov 2025 12:27	vial-B	SY/MD	Ok
8	Q3582-04RE	RT4912RE	VY023758.D	12 Nov 2025 12:51	vial-B Surrogate Fail;Internal Standard Fail	SY/MD	Confirms
9	Q3586-01RE	SED-1RE	VY023759.D	12 Nov 2025 13:14	vial-B Internal Standard Fail	SY/MD	Confirms
10	Q3586-02RE	SED-2RE	VY023760.D	12 Nov 2025 13:38	vial-B Surrogate Fail;Internal Standard Fail	SY/MD	Confirms
11	Q3586-03	SED-3	VY023761.D	12 Nov 2025 14:01	vial-B	SY/MD	Ok
12	Q3600-01	CENTRAL-ROW-CONC	VY023762.D	12 Nov 2025 14:24	vial-B	SY/MD	Ok
13	Q3609-02	AU-713-VOC-01	VY023763.D	12 Nov 2025 14:57	vial-A	SY/MD	Ok
14	Q3609-05	AU-713-VOC-02	VY023764.D	12 Nov 2025 15:21	vial-A	SY/MD	Ok
15	Q3609-08	AU-713-VOC-03	VY023765.D	12 Nov 2025 15:44	vial-A	SY/MD	Ok
16	Q3609-11	AU-713-VOC-04	VY023766.D	12 Nov 2025 16:08	vial-A	SY/MD	Ok
17	Q3609-14	AU-713-VOC-05	VY023767.D	12 Nov 2025 16:31	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY111225

Review By	Amit Patel	Review On	11/14/2025 12:33:40 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/17/2025 9:25:17 AM		
SubDirectory	VY111225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y110425s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP136179			
CCC		VP136182,VP136183			
Internal Standard/PEM		VP136146			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

18	Q3614-01	COMP-1	VY023768.D	12 Nov 2025 16:55	vial-A	SY/MD	Ok
19	Q3614-02	COMP-2	VY023769.D	12 Nov 2025 17:18	vial-A	SY/MD	Ok
20	Q3614-03	COMP-3	VY023770.D	12 Nov 2025 17:42	vial-A	SY/MD	Ok
21	VIBLK	VIBLK	VY023771.D	12 Nov 2025 18:05		SY/MD	Ok
22	VSTDCCC050	VSTDCCC050EC	VY023772.D	12 Nov 2025 18:28		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/11/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 11/10/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:37
Out Date: 11/11/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137838

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
Q3581-01	VNJ-238	1	1.14	10.78	11.92	10.38	85.7	
Q3581-03	VNJ-245	2	1.18	11.48	12.66	11.14	86.8	
Q3581-05	VNJ-240	3	1.19	10.33	11.52	10.38	89.0	
Q3581-07	RBR200059	4	1.13	10.74	11.87	10.48	87.1	
Q3582-04	RT4912	5	1.13	10.66	11.79	9.99	83.1	
Q3582-05	RT4912-E2	6	1.15	10.34	11.49	9.9	84.6	
Q3583-04	CHRT27080	7	1.00	10.99	11.99	2.6	14.6	sludge sample
Q3583-05	CHRT27080	8	1.13	10.53	11.66	2.45	12.5	sludge sample
Q3586-01	SED-1	9	1.18	10.48	11.66	7.77	62.9	
Q3586-02	SED-2	10	1.13	10.64	11.77	5.54	41.4	
Q3586-03	SED-3	11	1.17	10.63	11.8	6.58	50.9	
Q3587-01	NB-08-110725	12	1.16	10.48	11.64	10.81	92.1	
Q3587-02	NB-08-110725-E2	13	1.14	10.88	12.02	10.72	88.1	
Q3588-01	TR-06-11072025	14	1.16	10.27	11.43	10.8	93.9	
Q3588-02	TR-06-11072025-E2	15	1.15	10.40	11.55	10.8	92.8	
Q3588-03	TR-01-11072025	16	1.13	10.49	11.62	10.84	92.6	
Q3588-04	TR-01-11072025-E2	17	1.11	10.35	11.46	10.66	92.3	
Q3589-03	MDL-SOIL-QT4-2025-07	18	1.00	1.00	2.00	2.00	100.0	
Q3589-04	MDL-SOIL-QT4-2025-08	19	1.00	1.00	2.00	2.00	100.0	
Q3589-05	MDL-MED-SOIL-QT4-2025-07	20	1.00	1.00	2.00	2.00	100.0	
Q3589-06	MDL-MED-SOIL-QT4-2025-08	21	1.00	1.00	2.00	2.00	100.0	
Q3590-01	MOO-25-0314-0316-COMP	22	1.13	10.61	11.74	10.05	84.1	
Q3590-02	MOO-25-0314-0316-COMP	23	1.19	10.30	11.49	10.5	90.4	
Q3590-03	MOO-25-0317-0318-COMP	24	1.19	10.55	11.74	6.06	46.2	
Q3590-04	MOO-25-0317-0318-COMP	25	1.13	10.64	11.77	6.42	49.7	
Q3590-05	MOO-25-0319	26	1.00	1.00	2.00	2.00	100.0	plastic-debris sample
Q3590-06	MOO-25-0319	27	1.00	1.00	2.00	2.00	100.0	plastic-debris sample

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/11/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 11/10/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:37
Out Date: 11/11/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137838

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
Q3591-01	KMH4680-END-1-1	28	1.00	1.00	2.00	2.00	100.0	PILC
Q3591-02	KMH4680-END-1-2	29	1.00	1.00	2.00	2.00	100.0	PILC
Q3591-03	M4-END-A	30	1.00	1.00	2.00	2.00	100.0	PILC
Q3591-04	M4-END-B	31	1.00	1.00	2.00	2.00	100.0	PILC
Q3591-05	M5-END-A	32	1.00	1.00	2.00	2.00	100.0	PILC
Q3591-06	M5-END-B	33	1.00	1.00	2.00	2.00	100.0	PILC
Q3592-01	11625	34	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3593-04	A-LAW-25-0167-0175-COMP	35	1.19	10.57	11.76	9.63	79.8	
Q3593-05	A-LAW-25-0167-0175-COMP	36	1.15	10.59	11.74	9.6	79.8	
Q3593-06	B-LAW-25-0167-0175-COMP	37	1.19	10.52	11.71	9.56	79.6	
Q3593-07	B-LAW-25-0167-0175-COMP	38	1.13	10.42	11.55	9.42	79.6	
Q3593-08	C-LAW-25-0156-0166-COMP	39	1.19	10.50	11.69	9.41	78.3	
Q3593-09	C-LAW-25-0156-0166-COMP	40	1.18	10.43	11.61	9.82	82.8	
Q3593-10	D-LAW-25-0156-0166-COMP	41	1.11	10.77	11.88	9.75	80.2	
Q3593-11	D-LAW-25-0156-0166-COMP	42	1.19	10.61	11.8	9.77	80.9	
Q3596-01	11-7-25-A	55	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3596-02	11-7-25-B	56	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3596-03	11-7-25-C	57	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3597-01	TP-1	43	1.13	10.69	11.82	11.54	97.4	
Q3597-02	TP-1-EPH-0-3	44	1.15	10.10	11.25	11.08	98.3	
Q3597-03	TP-1-EPH-3-6	45	1.16	10.16	11.32	11.00	96.9	
Q3597-04	TP-2	46	1.15	10.84	11.99	11.82	98.4	
Q3597-05	TP-2-EPH-0-3	47	1.18	10.20	11.38	11.23	98.5	
Q3597-06	TP-2-EPH-3-6	48	1.13	10.22	11.35	11.16	98.1	
Q3597-07	TP-3	49	1.16	10.11	11.27	11.03	97.6	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/11/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 11/10/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:37
Out Date: 11/11/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137838

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
Q3597-08	TP-3-EPH-0-3	50	1.14	10.52	11.66	11.47	98.2	
Q3597-09	TP-3-EPH-3-6	51	1.18	10.46	11.64	11.38	97.5	
Q3597-10	TP-4	52	1.11	10.71	11.82	11.58	97.8	
Q3597-11	TP-4-EPH-0-3	53	1.15	10.33	11.48	11.07	96.0	
Q3597-12	TP-4-EPH-3-6	54	1.18	10.19	11.37	11.18	98.1	
Q3598-01	EO-CONCRETE	58	1.15	10.14	11.29	10.47	91.9	
Q3599-01	LIVINGSTON-SOIL	59	1.15	10.19	11.34	10.55	92.2	
Q3600-01	CENTRAL-ROW-CONCRETE	60	1.11	10.72	11.83	10.26	85.4	
Q3600-02	CENTRAL-ROW-CONCRETE-E 2	61	1.18	10.44	11.62	10.07	85.2	
Q3601-01	TP-1	62	1.13	10.73	11.86	10.42	86.6	
Q3601-02	TP-1-EPH	63	1.16	10.77	11.93	10.52	86.9	
Q3601-03	TP-1-VOC	64	1.18	10.44	11.62	10.1	85.4	
Q3601-05	TP-2	65	1.17	10.66	11.83	10.48	87.3	
Q3601-06	TP-2-EPH	66	1.17	10.57	11.74	10.34	86.8	
Q3601-07	TP-2-VOC	67	1.18	10.12	11.3	10.05	87.6	
Q3601-09	TP-3	68	1.11	10.70	11.81	10.45	87.3	
Q3601-10	TP-3-EPH	69	1.15	10.00	11.15	9.91	87.6	
Q3601-11	TP-3-VOC	70	1.19	10.53	11.72	10.21	85.7	
Q3601-13	TP-4	71	1.15	10.99	12.14	10.94	89.1	
Q3601-14	TP-4-EPH	72	1.16	10.53	11.69	10.54	89.1	
Q3601-15	TP-4-VOC	73	1.11	10.35	11.46	10.58	91.5	
Q3601-17	TP-5	74	1.15	10.35	11.5	9.93	84.8	
Q3601-18	TP-5-EPH	75	1.16	10.22	11.38	9.68	83.4	
Q3601-19	TP-5-VOC	76	1.19	10.20	11.39	9.69	83.3	

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

WORKLIST(Hardcopy Internal Chain)

137838

WorkList Name : %1-111025 WorkList ID : 192994 Department : Wet-Chemistry Date : 11-10-2025 08:07:52

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3581-01	VNJ-238	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3581-03	VNJ-245	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3581-05	VNJ-240	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3581-07	RBR200059	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3582-04	RT4912	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	11/07/2025	Chemtech -SO
Q3582-05	RT4912-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	11/07/2025	Chemtech -SO
Q3583-04	CHRT27080	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3583-05	CHRT27080	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3586-01	SED-1	Solid	Percent Solids	Cool 4 deg C	REMI02	D31	11/06/2025	Chemtech -SO
Q3586-02	SED-2	Solid	Percent Solids	Cool 4 deg C	REMI02	D31	11/06/2025	Chemtech -SO
Q3586-03	SED-3	Solid	Percent Solids	Cool 4 deg C	REMI02	D31	11/06/2025	Chemtech -SO
Q3587-01	NB-08-110725	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	11/07/2025	Chemtech -SO
Q3587-02	NB-08-110725-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	11/07/2025	Chemtech -SO
Q3588-01	TR-06-11072025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	11/07/2025	Chemtech -SO
Q3588-02	TR-06-11072025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	11/07/2025	Chemtech -SO
Q3588-03	TR-01-11072025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	11/07/2025	Chemtech -SO
Q3588-04	TR-01-11072025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	11/07/2025	Chemtech -SO
Q3589-03	MDL-SOIL-QT4-2025-07	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	11/10/2025	Chemtech -SO
Q3589-04	MDL-SOIL-QT4-2025-08	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	11/10/2025	Chemtech -SO
Q3589-05	MDL-MED-SOIL-QT4-2025-07	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	11/10/2025	Chemtech -SO
Q3589-06	MDL-MED-SOIL-QT4-2025-08	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	11/10/2025	Chemtech -SO

Date/Time 11-10-25 15:00 Date/Time 11-10-25 17:40
 Raw Sample Received by: CP Raw Sample Received by: CP
 Raw Sample Relinquished by: CP Raw Sample Relinquished by: CP

WORKLIST(Hardcopy Internal Chain)

137838

WorkList Name : %1-111025 WorkList ID : 192994 Department : Wet-Chemistry Date : 11-10-2025 08:07:52

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3590-01	MOO-25-0314-0316-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3590-02	MOO-25-0314-0316-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3590-03	MOO-25-0317-0318-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3590-04	MOO-25-0317-0318-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3590-05	MOO-25-0319-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3590-06	MOO-25-0319-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3591-01	KMH4680-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3591-02	KMH4680-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3591-03	M4-END-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3591-04	M4-END-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3591-05	M5-END-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3591-06	M5-END-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3592-01	11625	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3593-04	A-LAW-25-0167-0175-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3593-05	A-LAW-25-0167-0175-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3593-06	B-LAW-25-0167-0175-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3593-07	B-LAW-25-0167-0175-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3593-08	C-LAW-25-0167-0175-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3593-09	C-LAW-25-0167-0175-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3593-10	D-LAW-25-0156-0166-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO
Q3593-11	D-LAW-25-0156-0166-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/07/2025	Chemtech -SO

Date/Time 11.10.25 15.00 Date/Time 11.10.25 17:40
 Raw Sample Received by: SA WOC Raw Sample Received by: OP SM
 Raw Sample Relinquished by: SA WOC Raw Sample Relinquished by: SA WOC

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-111025 WorkList ID : 192994 Department : Wet-Chemistry Date : 11-10-2025 08:07:52

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3596-01	11-7-25-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	11/10/2025	Chemtech -SO
Q3596-02	11-7-25-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	11/10/2025	Chemtech -SO
Q3596-03	11-7-25-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	11/10/2025	Chemtech -SO
Q3597-01	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3597-02	TP-1-EPH-0-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3597-03	TP-1-EPH-3-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3597-04	TP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3597-05	TP-2-EPH-0-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3597-06	TP-2-EPH-3-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3597-07	TP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3597-08	TP-3-EPH-0-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3597-09	TP-3-EPH-3-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3597-10	TP-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3597-11	TP-4-EPH-0-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3597-12	TP-4-EPH-3-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3598-01	EO-CONCRETE	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3599-01	LIVINGSTON-SOIL	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3600-01	CENTRAL-ROW-CONCRETE	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3600-02	CENTRAL-ROW-CONCRETE-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3601-01	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3601-02	TP-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO

Date/Time 11-10-25 Date/Time 11-10-25
 Raw Sample Received by: JP Raw Sample Received by: JP
 Raw Sample Relinquished by: JP Raw Sample Relinquished by: JP

WORKLIST(Hardcopy Internal Chain)

1378358

WorkList Name : %1-111025 WorkList ID : 192994 Department : Wet-Chemistry Date : 11-10-2025 08:07:52

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3601-03	TP-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3601-05	TP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3601-06	TP-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3601-07	TP-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3601-09	TP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3601-10	TP-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3601-11	TP-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3601-13	TP-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3601-14	TP-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3601-15	TP-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3601-17	TP-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3601-18	TP-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO
Q3601-19	TP-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/10/2025	Chemtech -SO

Date/Time 11.10.25 13:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 11.10.25 13:40

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Remington + Vermack Engineers
ADDRESS: 2059 Springdale Rd
CITY: Cherry Hill STATE: NJ ZIP: 08003
ATTENTION: Kyle Carlson @ rve.com
PHONE: 609-682-3019 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Edison Landfill
PROJECT NO.: 1205T007 LOCATION: Edison, NJ
PROJECT MANAGER: Leslie Hartzell
e-mail: Leslie.Hartzell@rve.com
PHONE: 610-663-4665 FAX:

CLIENT BILLING INFORMATION

BILL TO: APinvoices@rve.com PO#: 205T007
ADDRESS: 2059 Springdale Rd
CITY: Cherry Hill STATE: NJ ZIP: 08003
ATTENTION: Leslie Hartzell PHONE: 610-663-4665

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: _____ DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☒ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
☒ + Raw Data ☐ Other
☒ EDD FORM NJ Hartzell

TOTAL + 30
EPH
4x Chrome
4x H2SO4
5x VOCs
6x % Solids

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS ← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		E	E	E	E	F	F				
								1	2	3	4	5	6	7	8	9	
1.	SED-1	S		X	11/6/25	14:15	13	6	1	1	1	3	1				Methanol, DI Water
2.	SED-2	S		X	11/6/25	12:40	13	6	1	1	1	3	1				Methanol, DI Water
3.	SED-3	S		X	11/6/25	11:35	13	6	1	1	1	3	1				Methanol, DI Water
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. <u>Arina Maier</u>	DATE/TIME: <u>11/7/25 (10:00)</u>	RECEIVED BY: 1. <u>IT</u>	Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.5 + 0 = 3.5 °C</u> Comments: _____ _____ _____
RELINQUISHED BY SAMPLER: 2. <u>IT</u>	DATE/TIME: <u>11-7-25</u>	RECEIVED BY: 2. <u>IT</u>	
RELINQUISHED BY SAMPLER: 3. <u>IT</u>	DATE/TIME: <u>11-7-25</u>	RECEIVED BY: 3. <u>IT</u>	

Page 1 of 1 CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3586	REMI02	Order Date : 11/7/2025 3:20:00 PM	Project Mgr :
Client Name : Remington & Vernick Engi		Project Name : Edison Landfill	Report Type : NJ Reduced
Client Contact : Kyle Carlson		Receive DateTime : 11/7/2025 12:00:00 AM	EDD Type : Excel NJ
Invoice Name : Remington & Vernick Engi		Purchase Order : 17:20	Hard Copy Date :
Invoice Contact : Kyle Carlson			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3586-01	SED-1	Solid	11/06/2025	14:15	VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
Q3586-02	SED-2	Solid	11/06/2025	12:40	VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
Q3586-03	SED-3	Solid	11/06/2025	11:55	VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	

T. Anderson

*Stored in VOA
F22 #02 & ref # 06*

Relinquished By : *CP*
Date / Time : 11/10/25 12:35

Received By : *W. Duda*
Date / Time : 11/10/25 10:35

Storage Area : VOA Refridgerator Room