

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV061125\
 Data File : VV038786.D
 Acq On : 11 Jun 2025 16:16
 Operator : SY/MD
 Sample : Q2117-06
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH/A
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-MED-SOIL-QT2-2025-04

Quant Time: Jun 12 11:35:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM060925WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jun 10 14:44:52 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Mahesh Dadoda 06/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	500405	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	521037	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.175	152	232433	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.288	65	163965	39.400	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	78.800%		
7) Chloroethane-d5	1.542	69	156132	40.987	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	81.980%		
11) 1,1-Dichloroethene-d2	2.069	65	81695	39.885	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	79.760%		
21) 2-Butanone-d5	3.786	46	334517	103.071	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	103.070%		
24) Chloroform-d	4.252	84	386267	43.568	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	87.140%		
26) 1,2-Dichloroethane-d4	4.940	65	246085	47.545	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	95.100%		
32) Benzene-d6	4.960	84	720839	43.848	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	87.700%		
36) 1,2-Dichloropropane-d6	5.985	67	250987	45.969	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	91.940%		
41) Toluene-d8	7.239	98	601666	41.447	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	82.900%		
43) trans-1,3-Dichloroprop...	7.551	79	102067	42.865	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	85.740%		
47) 2-Hexanone-d5	8.018	63	223043	98.463	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	98.460%		
56) 1,1,2,2-Tetrachloroeth...	10.143	84	368152	45.443	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	90.880%		
66) 1,2-Dichlorobenzene-d4	11.551	152	217544	48.226	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	96.460%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.117	85	10967	1.865	ug/L	99
3) Chloromethane	1.227	50	12029	2.024	ug/L	99
5) Vinyl chloride	1.291	62	12604	2.052	ug/L	86
6) Bromomethane	1.494	94	6153	2.017	ug/L	99
8) Chloroethane	1.558	64	7823	2.121	ug/L	98
9) Trichlorofluoromethane	1.725	101	15242	1.881	ug/L	93
10) 1,1,2-Trichloro-1,2,2-...	2.076	101	11823	2.465	ug/L #	82
12) 1,1-Dichloroethene	2.076	96	9853	2.279	ug/L #	1
13) Acetone	2.124	43	12806	5.852	ug/L	91
14) Carbon disulfide	2.249	76	25654	1.941	ug/L	97
15) Methyl Acetate	2.397	43	13587m	2.338	ug/L	
17) trans-1,2-Dichloroethene	2.706	96	8194	1.884	ug/L	99
18) Methyl tert-butyl Ether	2.712	73	21677	1.655	ug/L	96
19) 1,1-Dichloroethane	3.124	63	17276	1.912	ug/L	99
20) cis-1,2-Dichloroethene	3.822	96	9614	2.059	ug/L	88
22) 2-Butanone	3.918	43	19712m	5.738	ug/L	
23) Bromochloromethane	4.166	128	5244m	2.104	ug/L	
27) 1,2-Dichloroethane	5.063	62	15939m	2.371	ug/L	
29) Cyclohexane	4.587	56	11172	1.500	ug/L #	78

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

30) 1,1,1-Trichloroethane	4.516	97	14302	1.866	ug/L #	86
31) Carbon tetrachloride	4.738	117	12453	1.872	ug/L	99
33) Benzene	5.021	78	34039	1.857	ug/L	100
34) Trichloroethene	5.854	95	10271m	2.114	ug/L	
35) Methylcyclohexane	6.043	83	15749m	2.067	ug/L	
37) 1,2-Dichloropropane	6.101	63	10007	1.895	ug/L #	92
38) Bromodichloromethane	6.445	83	13893m	2.028	ug/L	
39) cis-1,3-Dichloropropene	6.963	75	15771m	2.079	ug/L	
40) 4-Methyl-2-pentanone	7.165	43	21518	2.981	ug/L #	90
42) Toluene	7.326	91	33466	1.769	ug/L	99
44) trans-1,3-Dichloropropene	7.587	75	14970m	2.044	ug/L	
45) 1,1,2-Trichloroethane	7.776	97	9276	1.792	ug/L	93
46) Tetrachloroethene	7.905	164	6119	1.713	ug/L	96
48) 2-Hexanone	8.082	43	29374	5.496	ug/L #	82
49) Dibromochloromethane	8.175	129	10864	2.066	ug/L	92
50) 1,2-Dibromoethane	8.288	107	11335	2.131	ug/L	90
51) Chlorobenzene	8.808	112	24406	1.911	ug/L	98
52) Ethylbenzene	8.950	91	32531	1.596	ug/L	96
53) m,p-Xylene	9.079	106	10777	1.441	ug/L	84
54) o-Xylene	9.480	106	10545	1.457	ug/L	85
55) Styrene	9.503	104	16649	1.321	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.169	83	20220	2.367	ug/L #	97
59) Bromoform	9.664	173	6603	2.036	ug/L #	97
60) Isopropylbenzene	9.863	105	25819	1.560	ug/L	99
61) 1,2,3-Trichloropropane	10.204	75	12733	2.241	ug/L	95
62) 1,3,5-Trimethylbenzene	10.471	105	20280	1.574	ug/L	96
63) 1,2,4-Trimethylbenzene	10.850	105	18970	1.490	ug/L	98
64) 1,3-Dichlorobenzene	11.117	146	14451	1.827	ug/L	94
65) 1,4-Dichlorobenzene	11.201	146	17383	2.042	ug/L	96
67) 1,2-Dichlorobenzene	11.567	146	18494	2.314	ug/L #	89
68) 1,2-Dibromo-3-chloropr...	12.361	75	4051	2.495	ug/L	87
69) 1,3,5-Trichlorobenzene	12.580	180	9460	1.809	ug/L	97
70) 1,2,4-trichlorobenzene	13.194	180	7758	1.735	ug/L	99
71) Naphthalene	13.435	128	23281	1.466	ug/L	99
72) 1,2,3-Trichlorobenzene	13.673	180	7208	1.545	ug/L	89

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

