

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092225\
 Data File : VU063621.D
 Acq On : 22 Sep 2025 15:57
 Operator : MD/SY
 Sample : Q2899-05
 Misc : 5.00g/5.0mL/100uL/5mL/MSVOA_U/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MED-SOIL-QT3-2025-05

Quant Time: Sep 23 05:55:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092225WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Sep 23 05:35:07 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/24/2025
 Supervised By :Semsettin Yesilyurt 09/24/2025

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

Internal Standards						
1) 1,4-Difluorobenzene	6.238	114	237966	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	228114	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	109395	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	76051	47.648	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	95.300%
7) Chloroethane-d5	1.898	69	69117	50.899	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.800%
11) 1,1-Dichloroethene-d2	2.550	63	103287	36.214	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.420%
21) 2-Butanone-d5	4.615	46	113230	102.817	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.820%
24) Chloroform-d	5.049	84	142362	47.670	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.340%
26) 1,2-Dichloroethane-d4	5.689	65	100283	51.541	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.080%
32) Benzene-d6	5.714	84	282594	51.722	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.440%
36) 1,2-Dichloropropane-d6	6.679	67	92019	51.554	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.100%
41) Toluene-d8	7.888	98	253599	49.390	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.780%
43) trans-1,3-Dichloroprop...	8.171	79	29372	45.432	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.860%
47) 2-Hexanone-d5	8.624	63	66409	101.539	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.540%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	136367	49.616	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.240%
66) 1,2-Dichlorobenzene-d4	12.183	152	94995	51.674	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.340%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.380	85	2822	2.204	ug/L	96
3) Chloromethane	1.515	50	4236	2.566	ug/L	100
5) Vinyl chloride	1.595	62	4651	2.367	ug/L #	68
6) Bromomethane	1.840	94	3037	2.439	ug/L	93
8) Chloroethane	1.917	64	2898	2.177	ug/L	91
9) Trichlorofluoromethane	2.123	101	6108	2.134	ug/L	95
10) 1,1,2-Trichloro-1,2,2-...	2.566	101	4345	2.759	ug/L #	75
12) 1,1-Dichloroethene	2.563	96	3553	2.536	ug/L #	1
13) Acetone	2.621	43	5214	3.967	ug/L	93
14) Carbon disulfide	2.779	76	7678	2.112	ug/L	100
15) Methyl Acetate	2.962	43	4149m	2.128	ug/L	
16) Methylene chloride	3.029	84	6716	3.791	ug/L	90
17) trans-1,2-Dichloroethene	3.341	96	3245	2.151	ug/L	97
18) Methyl tert-butyl Ether	3.354	73	10017	2.053	ug/L	96
19) 1,1-Dichloroethane	3.859	63	5696	1.855	ug/L #	87
20) cis-1,2-Dichloroethene	4.653	96	3507	1.985	ug/L	97
22) 2-Butanone	4.737	43	8437m	5.555	ug/L	
23) Bromochloromethane	4.968	128	1786	1.929	ug/L	94
25) Chloroform	5.071	83	7530	2.309	ug/L	82

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.785	62	6146m	2.281	ug/L	
29) Cyclohexane	5.370	56	5429	2.025	ug/L	98
30) 1,1,1-Trichloroethane	5.303	97	4661	1.859	ug/L	98
31) Carbon tetrachloride	5.512	117	3519m	1.771	ug/L	
33) Benzene	5.762	78	13589	2.051	ug/L	100
34) Trichloroethene	6.537	95	4070	2.194	ug/L	90
35) Methylcyclohexane	6.753	83	5792	2.187	ug/L #	91
37) 1,2-Dichloropropane	6.785	63	4283m	2.335	ug/L	
38) Bromodichloromethane	7.097	83	3908	1.797	ug/L #	87
39) cis-1,3-Dichloropropene	7.602	75	4677	1.961	ug/L	99
40) 4-Methyl-2-pentanone	7.788	43	12228m	4.626	ug/L	
42) Toluene	7.962	91	15477	2.131	ug/L	95
44) trans-1,3-Dichloropropene	8.206	75	4107	2.028	ug/L	99
45) 1,1,2-Trichloroethane	8.393	97	4121	2.314	ug/L	86
46) Tetrachloroethene	8.547	164	2591	1.918	ug/L	90
48) 2-Hexanone	8.682	43	15225m	7.614	ug/L	
49) Dibromochloromethane	8.798	129	2763	1.733	ug/L	98
50) 1,2-Dibromoethane	8.917	107	3765	2.042	ug/L #	99
51) Chlorobenzene	9.441	112	10204	2.123	ug/L	99
52) Ethylbenzene	9.563	91	15841	1.973	ug/L	90
53) m,p-Xylene	9.688	106	5837	1.948	ug/L	94
54) o-Xylene	10.094	106	6011	2.014	ug/L	83
55) Styrene	10.116	104	8791	1.802	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.772	83	7005	2.327	ug/L #	94
60) 1,2,3-Trichloropropane	10.814	75	5362	2.325	ug/L	96
61) Isopropylbenzene	10.479	105	15112	2.025	ug/L	98
62) 1,3,5-Trimethylbenzene	11.084	105	11992	1.954	ug/L	99
63) 1,2,4-Trimethylbenzene	11.466	105	11404	1.917	ug/L	98
64) 1,3-Dichlorobenzene	11.746	146	7218	2.123	ug/L	97
65) 1,4-Dichlorobenzene	11.830	146	7916	2.301	ug/L	98
67) 1,2-Dichlorobenzene	12.203	146	7810	2.336	ug/L #	87
68) 1,2-Dibromo-3-chloropr...	12.994	75	907m	1.753	ug/L	
69) 1,3,5-Trichlorobenzene	13.222	180	4905	2.063	ug/L	97
70) 1,2,4-trichlorobenzene	13.849	180	4368	2.226	ug/L #	87
71) Naphthalene	14.097	128	12335	2.313	ug/L	96
72) 1,2,3-Trichlorobenzene	14.328	180	4162	2.212	ug/L	99

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

