

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW061924\
 Data File : VW036130.D
 Acq On : 19 Jun 2024 09:47
 Operator : SY/MD
 Sample : VSTDCCC025
 Misc : 5.00g/10.0mL/MSVOA_V/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD025291

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/22/2024
 Supervised By :Mahesh Dadoda 06/22/2024

Quant Time: Jun 20 04:57:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM053024SMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jun 19 03:24:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	300956	25.000	ug/L	0.00
28) Chlorobenzene-d5	8.780	117	308529	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.181	152	167129	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	123830	22.380	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	89.520%		
7) Chloroethane-d5	1.526	69	102521	23.237	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	92.960%		
11) 1,1-Dichloroethene-d2	2.050	65	56850	23.080	ug/L	0.00
Spiked Amount 25.000	Range 45 - 110		Recovery =	92.320%		
21) 2-Butanone-d5	3.838	46	62652m	49.352	ug/L	0.02
Spiked Amount 50.000	Range 20 - 135		Recovery =	98.700%		
24) Chloroform-d	4.240	84	232462	24.296	ug/L	0.00
Spiked Amount 25.000	Range 40 - 150		Recovery =	97.200%		
26) 1,2-Dichloroethane-d4	4.937	65	125439	25.005	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	100.000%		
32) Benzene-d6	4.953	84	433908	23.660	ug/L	0.00
Spiked Amount 25.000	Range 20 - 135		Recovery =	94.640%		
36) 1,2-Dichloropropane-d6	5.982	67	139755	24.198	ug/L	0.00
Spiked Amount 25.000	Range 70 - 120		Recovery =	96.800%		
41) Toluene-d8	7.239	98	396751	24.518	ug/L	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	98.080%		
43) trans-1,3-Dichloroprop...	7.551	79	56994	24.068	ug/L	0.00
Spiked Amount 25.000	Range 30 - 135		Recovery =	96.280%		
47) 2-Hexanone-d5	8.030	63	40869	52.230	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	104.460%		
56) 1,1,2,2-Tetrachloroeth...	10.149	84	109851	25.454	ug/L	0.00
Spiked Amount 25.000	Range 45 - 120		Recovery =	101.800%		
66) 1,2-Dichlorobenzene-d4	11.558	152	136563	22.282	ug/L	0.00
Spiked Amount 25.000	Range 75 - 120		Recovery =	89.120%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.101	85	120507	22.207	ug/L	99
3) Chloromethane	1.211	50	150820	24.218	ug/L	100
5) Vinyl chloride	1.278	62	159711	24.360	ug/L	100
6) Bromomethane	1.484	94	104960	25.806	ug/L	100
8) Chloroethane	1.545	64	102977	25.269	ug/L	99
9) Trichlorofluoromethane	1.706	101	208636	25.625	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.060	101	130836	25.320	ug/L	99
12) 1,1-Dichloroethene	2.060	96	122726	25.465	ug/L	95
13) Acetone	2.146	43	120354m	60.862	ug/L	
14) Carbon disulfide	2.230	76	406637	24.297	ug/L	99
15) Methyl Acetate	2.384	43	61393	24.977	ug/L	98
16) Methylene chloride	2.439	84	147645	21.681	ug/L	99
17) trans-1,2-Dichloroethene	2.687	96	126979	24.803	ug/L	98
18) Methyl tert-butyl Ether	2.703	73	294539	25.628	ug/L	99
19) 1,1-Dichloroethane	3.101	63	246556	25.290	ug/L	99
20) cis-1,2-Dichloroethene	3.809	96	125541	24.405	ug/L	100
22) 2-Butanone	3.908	43	88999	53.040	ug/L	87
23) Bromochloromethane	4.140	128	65658	25.446	ug/L	99
25) Chloroform	4.268	83	253747	25.302	ug/L	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.037	62	168247	26.871	ug/L	100
29) Cyclohexane	4.574	56	171037	23.283	ug/L	99
30) 1,1,1-Trichloroethane	4.503	97	206739	24.511	ug/L	98
31) Carbon tetrachloride	4.725	117	181712	24.557	ug/L	100
33) Benzene	5.002	78	521804	25.859	ug/L	100
34) Trichloroethene	5.825	95	153120	24.759	ug/L	99
35) Methylcyclohexane	6.043	83	201007	23.503	ug/L	99
37) 1,2-Dichloropropane	6.088	63	137078	25.871	ug/L	99
38) Bromodichloromethane	6.429	83	180777	25.777	ug/L	99
39) cis-1,3-Dichloropropene	6.950	75	191099	24.114	ug/L	98
40) 4-Methyl-2-pentanone	7.159	43	159176	55.294	ug/L	99
42) Toluene	7.310	91	544790	26.422	ug/L	99
44) trans-1,3-Dichloropropene	7.577	75	183199	26.763	ug/L	99
45) 1,1,2-Trichloroethane	7.767	97	114421	26.099	ug/L	99
46) Tetrachloroethene	7.902	164	107201	23.701	ug/L	99
48) 2-Hexanone	8.079	43	135017	59.994	ug/L	98
49) Dibromochloromethane	8.172	129	124395	25.926	ug/L	99
50) 1,2-Dibromoethane	8.278	107	112172	26.666	ug/L	99
51) Chlorobenzene	8.808	112	346536	24.666	ug/L	100
52) Ethylbenzene	8.944	91	561114	25.435	ug/L	98
53) m,p-Xylene	9.069	106	214410	25.866	ug/L	100
54) o-Xylene	9.474	106	197063	25.210	ug/L	98
55) Styrene	9.493	104	375105	27.212	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.175	83	103795	26.441	ug/L	97
59) Bromoform	9.661	173	80396	25.508	ug/L	99
60) Isopropylbenzene	9.863	105	536536	25.023	ug/L	99
61) 1,2,3-Trichloropropane	10.207	75	106507	26.945	ug/L	97
62) 1,3,5-Trimethylbenzene	10.474	105	371370	23.885	ug/L	100
63) 1,2,4-Trimethylbenzene	10.850	105	421165	25.141	ug/L	99
64) 1,3-Dichlorobenzene	11.114	146	275223	24.442	ug/L	99
65) 1,4-Dichlorobenzene	11.204	146	285743	24.585	ug/L	99
67) 1,2-Dichlorobenzene	11.577	146	258907	24.434	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.361	75	25426	28.766	ug/L	96
69) 1,3,5-Trichlorobenzene	12.580	180	198248	23.537	ug/L	99
70) 1,2,4-trichlorobenzene	13.194	180	159223	24.008	ug/L	99
71) Naphthalene	13.435	128	306038	28.276	ug/L	99
72) 1,2,3-Trichlorobenzene	13.676	180	159927	26.426	ug/L	98

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

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The chromatogram displays a series of peaks corresponding to different chemical compounds. The y-axis represents Abundance, ranging from 0 to 1,250,000. The x-axis represents Time in minutes, ranging from 0 to 17.00. The following table lists the compounds identified in the chromatogram, along with their approximate retention times and relative abundances.

Compound	Approximate Retention Time (min)	Approximate Relative Abundance
Vinyl chloride-d3	1.5	450,000
Trichlorofluoromethane, T	1.8	380,000
Acetone, T	2.1	150,000
Methyl acetate, T	2.3	100,000
Carbon disulfide, T	2.5	350,000
Methylene chloride, T	2.7	300,000
Methyl tert-butyl ether, T	2.9	450,000
1,1-Dichloroethane, T	3.1	250,000
2-Butanol, T	3.5	100,000
1,1,1-Trichloroethane, T	3.8	200,000
Carbon tetrachloride, T	4.1	150,000
1,2-Dichloroethane, T	4.4	250,000
1,1,2-Trichloroethane, T	4.7	200,000
1,2-Dichloroethane, T	5.0	250,000
1,4-Difluorobenzene, T	5.3	350,000
Trichloroethene, T	5.6	400,000
1,2-Dichloropropane, T	5.9	300,000
Methylcyclohexane, T	6.2	350,000
Bromodichloromethane, T	6.5	250,000
cis-1,3-Dichloropropene, T	6.8	300,000
4-Methyl-2-pentanone, T	7.1	350,000
Toluene-d8, S	7.4	400,000
trans-1,3-Dichloropropene-d4, S	7.7	350,000
1,1,2-Trichloroethane, T	8.0	300,000
Tetrachloroethene, T	8.3	250,000
2-Hexanone-d5, S	8.6	200,000
1,2-Dibromoethane, T	8.9	150,000
Chlorobenzene-d5, T	9.2	600,000
Chlorobenzene, T	9.5	800,000
1,3,5-Trichlorobenzene, T	9.8	700,000
Bromoforn, T	10.1	200,000
1,1,2,2-Tetrachloroethane-d2, S	10.4	250,000
1,3,5-Trimethylbenzene	10.7	750,000
1,2,4-Trimethylbenzene	11.0	800,000
1,3-Dichlorobenzene, T	11.3	700,000
1,2,4-Trichlorobenzene, T	11.6	750,000
1,2,3-Trichlorobenzene, T	11.9	700,000
1,2-Dibromo-3-chloropropane, T	12.2	100,000
1,3,5-Trichlorobenzene	12.5	650,000
1,2,4-trichlorobenzene, T	12.8	550,000
Naphthalene	13.1	400,000
1,2,3-Trichlorobenzene, T	13.4	500,000