

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102621\
 Data File : VW020698.D
 Acq On : 26 Oct 2021 13:52
 Operator : SY/VA
 Sample : M4068-01 4PPBLOD
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2021

Manual Integrations
 APPROVED

MMDadoda
 10/27/2021 5:02:20 PM

Quant Time: Oct 27 06:08:11 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W102221S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 27 06:07:22 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.951	168	108873	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.841	114	164857	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.633	117	146802	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.560	152	80078	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.305	65	60227	49.789	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	99.580%		
35) Dibromofluoromethane	7.884	113	53878	49.973	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	99.940%		
50) Toluene-d8	10.323	98	205332	49.827	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	99.660%		
62) 4-Bromofluorobenzene	12.615	95	75701	50.111	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	100.220%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.007	85	636	2.217	ug/l	97
3) Chloromethane	2.208	50	3204	4.448	ug/l	100
4) Vinyl Chloride	2.355	62	3618	3.915	ug/l	99
5) Bromomethane	2.769	94	2588	4.712	ug/l	94
6) Chloroethane	2.916	64	1483	3.611	ug/l	100
7) Trichlorofluoromethane	3.251	101	2704	4.090	ug/l	99
8) Diethyl Ether	3.678	74	2075	3.935	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.062	101	4653	4.289	ug/l	98
10) Methyl Iodide	4.269	142	5308	3.941	ug/l	100
11) Tert butyl alcohol	5.171	59	1271m	17.157	ug/l	
12) 1,1-Dichloroethene	4.031	96	4299	4.243	ug/l	89
13) Acrolein	3.891	56	1289	19.437	ug/l	94
14) Allyl chloride	4.659	41	6931	4.237	ug/l	98
15) Acrylonitrile	5.372	53	4651	17.290	ug/l	99
16) Acetone	4.129	43	4920	16.643	ug/l	96
17) Carbon Disulfide	4.385	76	12490	4.242	ug/l	99
18) Methyl Acetate	4.677	43	3526	3.863	ug/l	98
19) Methyl tert-butyl Ether	5.439	73	6618	3.808	ug/l #	90
20) Methylene Chloride	4.915	84	10609	7.119	ug/l	99
21) trans-1,2-Dichloroethene	5.421	96	4730	4.180	ug/l	94
22) Diisopropyl ether	6.311	45	12696	3.967	ug/l	91
23) Vinyl Acetate	6.256	43	31845	16.987	ug/l	96
24) 1,1-Dichloroethane	6.220	63	9017	4.406	ug/l	99
25) 2-Butanone	7.177	43	5869	15.910	ug/l	94
26) 2,2-Dichloropropane	7.165	77	5764	4.304	ug/l	98
27) cis-1,2-Dichloroethene	7.171	96	5003	4.149	ug/l	97
28) Bromochloromethane	7.518	49	3819	4.514	ug/l #	99
29) Tetrahydrofuran	7.537	42	3480	15.419	ug/l	98
30) Chloroform	7.683	83	9147	4.285	ug/l	97
31) Cyclohexane	7.951	56	10440	5.085	ug/l #	84
32) 1,1,1-Trichloroethane	7.872	97	7861	4.355	ug/l	99
36) 1,1-Dichloropropene	8.079	75	7124	4.013	ug/l	99
37) Ethyl Acetate	7.250	43	2990	3.640	ug/l #	91
38) Carbon Tetrachloride	8.067	117	7249	4.118	ug/l	94
39) Methylcyclohexane	9.335	83	8311	4.015	ug/l	94
40) Benzene	8.323	78	22678	4.668	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.488	41	1703	3.558	ug/l	91
42) 1,2-Dichloroethane	8.402	62	6646	4.249	ug/l	98
43) Isopropyl Acetate	8.421	43	5310	3.483	ug/l #	91
44) Trichloroethene	9.091	130	5382	4.076	ug/l	98
45) 1,2-Dichloropropane	9.366	63	4840	4.156	ug/l	98
46) Dibromomethane	9.463	93	2552	3.900	ug/l	95
47) Bromodichloromethane	9.646	83	6504	4.033	ug/l	99
48) Methyl methacrylate	9.439	41	2208	3.010	ug/l	94
49) 1,4-Dioxane	9.445	88	531	61.061	ug/l	99
51) 4-Methyl-2-Pentanone	10.213	43	12757	15.390	ug/l	98
52) Toluene	10.390	92	13520	4.430	ug/l	95
53) t-1,3-Dichloropropene	10.603	75	6114	3.725	ug/l	95
54) cis-1,3-Dichloropropene	10.073	75	7113	3.825	ug/l	96
55) 1,1,2-Trichloroethane	10.786	97	3532	3.874	ug/l	96
56) Ethyl methacrylate	10.646	69	3778	3.224	ug/l	96
57) 1,3-Dichloropropane	10.932	76	6069	3.842	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.926	63	9144	17.310	ug/l	100
59) 2-Hexanone	10.969	43	8685	14.809	ug/l	95
60) Dibromochloromethane	11.127	129	3867	3.598	ug/l	94
61) 1,2-Dibromoethane	11.237	107	3119	3.536	ug/l	93
64) Tetrachloroethene	10.865	164	5037	4.419	ug/l	90
65) Chlorobenzene	11.658	112	13724	4.343	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.731	131	4775	4.168	ug/l	99
67) Ethyl Benzene	11.731	91	23365	4.083	ug/l	99
68) m/p-Xylenes	11.841	106	17775	8.034	ug/l	98
69) o-Xylene	12.164	106	7970	3.909	ug/l	95
70) Styrene	12.182	104	13328	3.816	ug/l	98
71) Bromoform	12.347	173	2434	3.624	ug/l #	96
73) Isopropylbenzene	12.463	105	22144	3.839	ug/l	98
74) N-amyl acetate	12.274	43	4431	3.165	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.713	83	3998	3.700	ug/l	98
76) 1,2,3-Trichloropropane	12.767	75	3311m	3.732	ug/l	
77) Bromobenzene	12.743	156	5600	4.047	ug/l	99
78) n-propylbenzene	12.804	91	29238	4.127	ug/l	98
79) 2-Chlorotoluene	12.889	91	16668	4.090	ug/l	100
80) 1,3,5-Trimethylbenzene	12.944	105	19718	3.955	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.511	75	1150m	3.330	ug/l	
82) 4-Chlorotoluene	12.987	91	17779	4.148	ug/l	96
83) tert-Butylbenzene	13.206	119	16905	3.929	ug/l	99
84) 1,2,4-Trimethylbenzene	13.249	105	19340	3.919	ug/l	98
85) sec-Butylbenzene	13.383	105	25955	4.021	ug/l	98
86) p-Isopropyltoluene	13.499	119	21381	3.894	ug/l	99
87) 1,3-Dichlorobenzene	13.499	146	12043	4.230	ug/l	100
88) 1,4-Dichlorobenzene	13.578	146	12331	4.337	ug/l	95
89) n-Butylbenzene	13.822	91	20205	3.968	ug/l	98
90) Hexachloroethane	14.090	117	3979	4.152	ug/l	98
91) 1,2-Dichlorobenzene	13.865	146	10294	4.071	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.480	75	658	3.373	ug/l	94
93) 1,2,4-Trichlorobenzene	15.133	180	7143	4.258	ug/l	94
94) Hexachlorobutadiene	15.230	225	5075	4.672	ug/l	93
95) Naphthalene	15.358	128	9711	3.251	ug/l	99
96) 1,2,3-Trichlorobenzene	15.553	180	6198	4.081	ug/l	97

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

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The chromatogram displays a series of peaks over a 16-minute period. The y-axis represents Abundance, ranging from 0 to 380,000. The x-axis represents Time in minutes, ranging from 2.00 to 16.00. Numerous peaks are labeled with chemical names and their corresponding retention times. The most prominent peaks are labeled with their chemical names and retention times, such as 1,4-Dichlorobenzene-d4, I at 13.5 minutes, and 1,4-Difluorobenzene, I at 9.0 minutes.

Retention Time (min)	Chemical Compound
2.00	Dichlorodifluoromethane, T
2.50	Chloromethane, P
2.80	Vinyl Chloride, C
3.00	Bromomethane, T
3.20	Chloroethane, I
3.50	Trichlorofluoromethane, T
3.80	Diethyl Ether, T
4.00	Acrolein, T
4.20	Acetone, T
4.50	Carbon Disulfide, T
4.80	Methyl iodide, T
5.00	Methylene Chloride, T
5.20	Methyl alcohol, T
5.50	Acetone, T
5.80	Acetone, T
6.20	1,1-Dichloroethane, P
7.20	Ethyl Acetate, T
7.50	Methyl acetate, T
7.80	Chloroform, C
8.00	Carbon tetrachloride, T
8.20	1,1,1-Trichloroethane, S
8.50	Isopropyl acetate, T
8.80	Benzene, T
9.00	1,4-Difluorobenzene, I
9.20	Trichloroethene, T
9.50	1,2-Dichlorobenzene, T
9.80	Bromodichloromethane, T
10.00	2-Chloroethyl Vinyl ether, T
10.20	cis-1,3-Dichloropropene, T
10.50	4-Methyl-2-Pentanol, T
10.80	Toluene, C
11.00	Ethyl Chloride, T
11.20	1,1,2-Trichloroethane, T
11.50	1,2-Dibromomethane, T
11.80	Chlorobenzene-d5, I
12.00	Chlorobenzene-d4, I
12.20	Chlorobenzene-d3, I
12.50	Chlorobenzene-d2, I
12.80	Chlorobenzene-d1, I
13.00	1,4-Dichlorobenzene-d4, I
13.20	1,4-Dichlorobenzene-d3, I
13.50	1,4-Dichlorobenzene-d2, I
13.80	1,4-Dichlorobenzene-d1, I
14.00	1,4-Dichlorobenzene, I
14.20	Hexachloroethane, T
14.50	1,2-Dibromo-3-Chloropropane, T
14.80	1,2-Dibromo-3-Chloropropane, T
15.00	1,2-Dibromo-3-Chloropropane, T
15.20	1,2-Dibromo-3-Chloropropane, T
15.50	1,2-Dibromo-3-Chloropropane, T
15.80	1,2-Dibromo-3-Chloropropane, T
16.00	1,2-Dibromo-3-Chloropropane, T