

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD031925\
 Data File : VD080285.D
 Acq On : 19 Mar 2025 10:19
 Operator : RP/MD
 Sample : VSTDCCC025
 Misc : 5.00G/10ml/MSVOA_D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTD02507

Quant Time: Mar 24 14:49:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM031825SMA.M
 Quant Title : SFAM01.0
 QLast Update : Mon Mar 24 14:42:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.775	114	172395	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	189406	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.516	152	92175	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.270	65	133216	23.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.88%
7) Chloroethane-d5	2.793	69	123374	24.39	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.56%
11) 1,1-Dichloroethene-d2	3.911	65	30462	25.52	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	102.08%
21) 2-Butanone-d5	6.987	46	32809	55.07	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	110.14%
24) Chloroform-d	7.569	84	142444	26.79	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	107.16%
26) 1,2-Dichloroethane-d4	8.228	65	77768	26.77	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	107.08%
32) Benzene-d6	8.199	84	282045	25.48	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	101.92%
36) 1,2-Dichloropropane-d6	9.210	67	81745	22.90	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.60%
41) Toluene-d8	10.269	98	249443	24.97	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.88%
43) trans-1,3-Dichloroprop...	10.522	79	35969	24.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.88%
47) 2-Hexanone-d5	10.875	63	28223	54.63	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	109.26%
56) 1,1,2,2-Tetrachloroeth...	12.651	84	75289	23.73	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.92%
66) 1,2-Dichlorobenzene-d4	13.810	152	83672	25.91	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.64%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.934	85	93026	29.03	ug/L	99
3) Chloromethane	2.152	50	137142	26.49	ug/L	97
5) Vinyl chloride	2.281	62	181357	26.94	ug/L	96
6) Bromomethane	2.687	94	98793	28.20	ug/L	96
8) Chloroethane	2.828	64	118839	26.11	ug/L	96
9) Trichlorofluoromethane	3.170	101	144953	28.86	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	3.958	101	85392	28.79	ug/L	98
12) 1,1-Dichloroethene	3.934	96	72563	28.73	ug/L	97
13) Acetone	4.022	43	42142	65.77	ug/L	95
14) Carbon disulfide	4.269	76	262208	28.03	ug/L	100
15) Methyl Acetate	4.564	43	36393	26.89	ug/L	98
16) Methylene chloride	4.799	84	79820	23.64	ug/L	98
17) trans-1,2-Dichloroethene	5.305	96	68522	25.09	ug/L	96
18) Methyl tert-butyl Ether	5.316	73	140922	24.57	ug/L	99
19) 1,1-Dichloroethane	6.111	63	143956	26.82	ug/L	99
20) cis-1,2-Dichloroethene	7.081	96	79794	27.10	ug/L	94
22) 2-Butanone	7.081	43	43630	54.21	ug/L #	54
23) Bromochloromethane	7.428	128	40999	29.15	ug/L	96
25) Chloroform	7.593	83	157213	27.38	ug/L	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	8.328	62	104799	29.23	ug/L	99
29) Cyclohexane	7.875	56	131048	29.39	ug/L	97
30) 1,1,1-Trichloroethane	7.793	97	132843	26.69	ug/L	99
31) Carbon tetrachloride	7.993	117	112460	25.74	ug/L	99
33) Benzene	8.252	78	322237	26.18	ug/L	100
34) Trichloroethene	9.022	95	75009	22.83	ug/L	96
35) Methylcyclohexane	9.275	83	117194	25.18	ug/L	98
37) 1,2-Dichloropropane	9.305	63	81155	22.73	ug/L	99
38) Bromodichloromethane	9.581	83	105388	23.25	ug/L	91
39) cis-1,3-Dichloropropene	10.016	75	119401	23.07	ug/L	94
40) 4-Methyl-2-pentanone	10.157	43	88435	46.81	ug/L	97
42) Toluene	10.334	91	328954	25.03	ug/L	98
44) trans-1,3-Dichloropropene	10.552	75	106836	24.72	ug/L	98
45) 1,1,2-Trichloroethane	10.728	97	71211	26.64	ug/L	94
46) Tetrachloroethene	10.804	164	68534	26.84	ug/L	98
48) 2-Hexanone	10.922	43	77304	56.46	ug/L	99
49) Dibromochloromethane	11.075	129	76472	25.30	ug/L	99
50) 1,2-Dibromoethane	11.175	107	63881	26.97	ug/L #	96
51) Chlorobenzene	11.604	112	227052	26.07	ug/L	97
52) Ethylbenzene	11.681	91	385350	26.91	ug/L	99
53) m,p-Xylene	11.793	106	144615	27.30	ug/L	100
54) o-Xylene	12.122	106	140850	28.01	ug/L	98
55) Styrene	12.134	104	258069	28.31	ug/L	99
57) 1,1,2,2-Tetrachloroethane	12.669	83	77183	23.84	ug/L	98
59) Bromoform	12.298	173	50533	29.60	ug/L	100
60) Isopropylbenzene	12.416	105	377714	30.44	ug/L	99
61) 1,2,3-Trichloropropane	12.722	75	52993	25.95	ug/L	99
62) 1,3,5-Trimethylbenzene	12.904	105	266860	27.30	ug/L	98
63) 1,2,4-Trimethylbenzene	13.210	105	264184	26.59	ug/L	99
64) 1,3-Dichlorobenzene	13.457	146	159097	25.66	ug/L	99
65) 1,4-Dichlorobenzene	13.540	146	166234	24.90	ug/L	99
67) 1,2-Dichlorobenzene	13.828	146	148323	25.88	ug/L	98
68) 1,2-Dibromo-3-chloropr...	14.445	75	11227	23.23	ug/L	91
69) 1,3,5-Trichlorobenzene	14.592	180	103897	25.47	ug/L	99
70) 1,2,4-trichlorobenzene	15.098	180	85760	25.24	ug/L	100
71) Naphthalene	15.334	128	164664	25.80	ug/L	99
72) 1,2,3-Trichlorobenzene	15.522	180	81134	26.45	ug/L	97

(#) = 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 from 0 to 1,000,000, and the x-axis represents Time in minutes from 2.00 to 16.00. The following table lists the labeled compounds and their approximate retention times:

Compound	Approximate Retention Time (min)
Dichlorodifluoromethane, T	2.1
Chloromethane, T	2.2
1,1,1-Trichloroethane, S	2.3
Bromomethane, T	2.8
Chloroethane, S	2.9
Trichlorofluoromethane, T	3.1
Acetone, T	4.1
1,1-Dichloroethane, T	4.2
Carbon disulfide, T	4.3
Methyl Acetate, T	4.5
Methylene chloride, T	4.7
trans-1,2-Dichloroethene, T	5.3
1,1-Dichloroethane, T	6.2
2-Butanone-d5, S	7.1
1,1,1-Trichloroethane, T	7.2
Bromochloromethane, T	7.3
Carbon tetrachloride, T	7.4
1,1,1-Trichloroethane, T	7.5
Carbon tetrachloride, T	7.6
1,2-Dichloroethane, T	8.1
1,4-Difluorobenzene, I	8.9
Trichloroethene, T	9.1
1,2-Dichloroethane, T	9.2
1,2-Dichloropropane, T	9.3
Methylcyclohexane, T	9.4
Bromodichloromethane, T	9.6
cis-1,3-Dichloropropene, T	10.1
4-Methyl-2-pentanone, T	10.2
Toluene, T	10.3
trans-1,3-Dichloropropene, T	10.4
1,1,2-Trichloroethane, T	10.5
2-Hexanone, T	10.6
Dibromochloromethane, T	10.7
1,2-Dibromobenzene, T	10.8
Chlorobenzene, T	11.8
m,p-Xylene, T	11.9
Ethylbenzene, T	12.0
Bromoform, T	12.2
Isopropylbenzene, T	12.3
1,2,3-Trichloropropane, T	12.4
1,3,5-Trimethylbenzene, T	12.5
1,2,4-Trimethylbenzene, T	12.6
1,3-Dichlorobenzene, T	12.7
1,2-Dichlorobenzene, T	12.8
1,2-Dibromobenzene, T	12.9
1,2-Dichlorobenzene, T	13.0
1,3,5-Trichlorobenzene, MA	13.1
1,2-Dibromo-3-chloropropane, T	13.2
1,2,4-trichlorobenzene, T	13.3
Naphthalene, MA	13.4
1,2,3-Trichlorobenzene, T	13.5