

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120721\
 Data File : VU046161.D
 Acq On : 07 Dec 2021 23:39
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 08 08:12:26 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	224724	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	220199	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	121899	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	81339	43.939	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	87.880%		
7) Chloroethane-d5	1.919	69	59037	41.537	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	83.080%		
11) 1,1-Dichloroethene-d2	2.575	63	146760	44.163	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	88.320%		
21) 2-Butanone-d5	4.636	46	132147	89.799	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	89.800%		
24) Chloroform-d	5.067	84	145668	47.121	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	94.240%		
26) 1,2-Dichloroethane-d4	5.703	65	95372	45.970	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	91.940%		
32) Benzene-d6	5.732	84	306187	48.514	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	97.020%		
36) 1,2-Dichloropropane-d6	6.694	67	94100	48.109	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	96.220%		
41) Toluene-d8	7.899	98	285867	49.747	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	99.500%		
43) trans-1,3-Dichloroprop...	8.179	79	47704	50.522	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	101.040%		
47) 2-Hexanone-d5	8.632	63	96635	104.200	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	104.200%		
56) 1,1,2,2-Tetrachloroeth...	10.758	84	141838	47.816	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	95.640%		
66) 1,2-Dichlorobenzene-d4	12.192	152	115363	49.142	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	98.280%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.388	85	100030	40.913	ug/L	100
3) Chloromethane	1.523	50	86811	39.697	ug/L	100
5) Vinyl chloride	1.607	62	92548	41.972	ug/L	99
6) Bromomethane	1.864	94	55670	44.544	ug/L	97
8) Chloroethane	1.938	64	52249	40.925	ug/L	97
9) Trichlorofluoromethane	2.144	101	125254	43.510	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.588	101	76839	46.991	ug/L	94
12) 1,1-Dichloroethene	2.584	96	73931	47.580	ug/L	97
13) Acetone	2.655	43	99401	54.047	ug/L	97
14) Carbon disulfide	2.800	76	205617	42.652	ug/L	99
15) Methyl Acetate	2.957	43	94771	44.203	ug/L	96
16) Methylene chloride	3.051	84	86464	46.770	ug/L	98
17) trans-1,2-Dichloroethene	3.359	96	79373	48.270	ug/L	97
18) Methyl tert-butyl Ether	3.366	73	261854	51.671	ug/L	100
19) 1,1-Dichloroethane	3.874	63	143084	47.857	ug/L	98
20) cis-1,2-Dichloroethene	4.671	96	89954	50.416	ug/L	100
22) 2-Butanone	4.716	43	144335	72.092	ug/L	95
23) Bromochloromethane	4.980	128	46104	51.162	ug/L	90
25) Chloroform	5.092	83	156536	47.122	ug/L	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.797	62	116545	47.279	ug/L	99
29) Cyclohexane	5.395	56	127377	49.678	ug/L	98
30) 1,1,1-Trichloroethane	5.321	97	133075	49.233	ug/L	99
31) Carbon tetrachloride	5.526	117	111190	48.455	ug/L	97
33) Benzene	5.777	78	331406	49.726	ug/L	100
34) Trichloroethene	6.546	95	89368	50.901	ug/L	98
35) Methylcyclohexane	6.764	83	131308	48.233	ug/L	99
37) 1,2-Dichloropropane	6.793	63	85777	49.132	ug/L	99
38) Bromodichloromethane	7.108	83	112710	48.572	ug/L	99
39) cis-1,3-Dichloropropene	7.607	75	135955	51.189	ug/L	97
40) 4-Methyl-2-pentanone	7.793	43	250455	97.641	ug/L	98
42) Toluene	7.970	91	369232	51.632	ug/L	98
44) trans-1,3-Dichloropropene	8.211	75	131071	50.247	ug/L	97
45) 1,1,2-Trichloroethane	8.401	97	88715	50.650	ug/L	98
46) Tetrachloroethene	8.555	164	67381	52.223	ug/L	96
48) 2-Hexanone	8.684	43	201212	87.713	ug/L	98
49) Dibromochloromethane	8.809	129	94792	51.537	ug/L	97
50) 1,2-Dibromoethane	8.925	107	96571	50.855	ug/L	99
51) Chlorobenzene	9.449	112	237769	51.392	ug/L	99
52) Ethylbenzene	9.571	91	404788	52.595	ug/L	99
53) m,p-Xylene	9.693	106	158591	52.838	ug/L	97
54) o-xylene	10.102	106	154893	53.184	ug/L	97
55) Styrene	10.115	104	268760	54.051	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.783	83	146853	48.904	ug/L	98
59) Bromoform	10.291	173	69216	48.402	ug/L	98
60) 1,2,3-Trichloropropane	10.825	75	120939	45.259	ug/L	99
61) Isopropylbenzene	10.484	105	412116	51.961	ug/L	99
62) 1,3,5-Trimethylbenzene	11.089	105	350136	52.964	ug/L	98
63) 1,2,4-Trimethylbenzene	11.468	105	352376	53.277	ug/L	99
64) 1,3-Dichlorobenzene	11.745	146	195476	51.886	ug/L	98
65) 1,4-Dichlorobenzene	11.835	146	198082	50.873	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	192605	50.767	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.996	75	33516	47.082	ug/L	91
69) 1,3,5-Trichlorobenzene	13.217	180	142330	51.849	ug/L	99
70) 1,2,4-trichlorobenzene	13.841	180	133172	54.669	ug/L	99
71) Naphthalene	14.086	128	484951	57.209	ug/L	100
72) 1,2,3-Trichlorobenzene	14.330	180	133492	53.739	ug/L	99

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

The chromatogram displays a series of peaks corresponding to different chemical compounds. The x-axis represents time in minutes, ranging from approximately 1.5 to 17.5. The y-axis represents abundance, ranging from 0 to 1,000,000. The following table lists the compounds identified in the chromatogram, along with their approximate retention times and relative abundances.

Compound	Approx. Retention Time (min)	Approx. Relative Abundance
1,1-Dichloroethane, T	1.5	100,000
1,1,1-Trichloroethane, T	1.8	150,000
1,1,2-Trichloroethane, T	2.0	100,000
1,1,2,2-Tetrachloroethane, T	2.2	150,000
1,1,2,2,3-Pentachloropropane, T	2.5	100,000
1,1,2,2,3,3-Hexachloropropane, T	2.8	150,000
1,1,2,2,3,3,4-Heptachlorobutane, T	3.0	100,000
1,1,2,2,3,3,4,4-Octachlorobutane, T	3.2	150,000
1,1,2,2,3,3,4,4,5-Nonachloropentane, T	3.5	100,000
1,1,2,2,3,3,4,4,5,6-Decachloropentane, T	3.8	150,000
1,1,2,2,3,3,4,4,5,6,7-Undecachlorohexane, T	4.0	100,000
1,1,2,2,3,3,4,4,5,6,7,8-Dodecachlorohexane, T	4.2	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9-Trichloroheptane, T	4.5	100,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10-Tetrachlorooctane, T	4.8	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11-Pentachlorononane, T	5.0	100,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12-Hexachlorodecane, T	5.2	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13-Heptachloroundecane, T	5.5	100,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14-Octachlorododecane, T	5.8	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15-Nonachlorotridecane, T	6.0	100,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16-Decachlorotetradecane, T	6.2	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17-Undecachloropentadecane, T	6.5	100,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18-Dodecachlorohexadecane, T	6.8	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19-Trichloroheptadecane, T	7.0	100,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20-Tetrachlorooctadecane, T	7.2	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21-Pentachlorononadecane, T	7.5	100,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22-Hexachloroicosane, T	7.8	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23-Heptachlorotriacontane, T	8.0	100,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24-Octachlorotetracontane, T	8.2	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25-Nonachloropentacosane, T	8.5	100,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26-Decachlorohexacosane, T	8.8	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27-Undecachlorotriacontane, T	9.0	100,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28-Dodecachlorotetracontane, T	9.2	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29-Trichloropentacosane, T	9.5	100,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30-Tetrachlorohexacosane, T	9.8	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31-Pentachloroheptacosane, T	10.0	100,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32-Hexachlorooctacosane, T	10.2	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33-Heptachlorononacosane, T	10.5	100,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34-Octachlorotriacontane, T	10.8	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35-Nonachlorotetracontane, T	11.0	100,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36-Decachloropentacosane, T	11.2	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37-Undecachlorohexacosane, T	11.5	100,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38-Dodecachloroheptacosane, T	11.8	150,000
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,		