

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111522\
 Data File : VU051869.D
 Acq On : 15 Nov 2022 19:10
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050120

Quant Time: Nov 16 01:25:36 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM111522WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 16 01:02:23 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	502270	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	493503	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	244036	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	105183	42.657	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.320%
7) Chloroethane-d5	1.903	69	111442	45.109	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.220%
11) 1,1-Dichloroethene-d2	2.568	63	198235	44.832	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.660%
21) 2-Butanone-d5	4.616	46	257882	91.973	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	91.970%
24) Chloroform-d	5.060	84	278956	45.129	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.260%
26) 1,2-Dichloroethane-d4	5.700	65	165278	43.680	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.360%
32) Benzene-d6	5.726	84	493038	47.915	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.840%
36) 1,2-Dichloropropane-d6	6.687	67	177589	46.366	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.740%
41) Toluene-d8	7.896	98	411818	48.760	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.520%
43) trans-1,3-Dichloroprop...	8.176	79	71435	46.825	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.640%
47) 2-Hexanone-d5	8.629	63	191108	98.177	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.180%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	345959	46.410	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.820%
66) 1,2-Dichlorobenzene-d4	12.188	152	200943	46.790	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.580%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.385	85	136763	44.351	ug/L	100
3) Chloromethane	1.523	50	196362	47.950	ug/L	98
5) Vinyl chloride	1.604	62	200101	47.109	ug/L	100
6) Bromomethane	1.838	94	91636	49.795	ug/L	100
8) Chloroethane	1.925	64	132458	47.964	ug/L	98
9) Trichlorofluoromethane	2.134	101	233537	45.922	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.578	101	146820	45.810	ug/L	100
12) 1,1-Dichloroethene	2.578	96	143878	48.067	ug/L	95
13) Acetone	2.620	43	193840	64.617	ug/L	99
14) Carbon disulfide	2.790	76	387844	46.770	ug/L	100
15) Methyl Acetate	2.944	43	203407	49.736	ug/L	100
16) Methylene chloride	3.044	84	217966	45.615	ug/L	98
17) trans-1,2-Dichloroethene	3.350	96	156357	48.472	ug/L	97
18) Methyl tert-butyl Ether	3.359	73	501606	50.242	ug/L	99
19) 1,1-Dichloroethane	3.867	63	319976	48.738	ug/L	99
20) cis-1,2-Dichloroethene	4.665	96	185439	49.259	ug/L	98
22) 2-Butanone	4.697	43	298131	87.998	ug/L	99
23) Bromochloromethane	4.970	128	101502	48.859	ug/L	96
25) Chloroform	5.086	83	334871	48.884	ug/L	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.790	62	247783	48.949	ug/L	99
29) Cyclohexane	5.385	56	215569	51.198	ug/L	100
30) 1,1,1-Trichloroethane	5.314	97	251579	50.422	ug/L	99
31) Carbon tetrachloride	5.523	117	206234	49.442	ug/L	98
33) Benzene	5.771	78	745102	52.488	ug/L	100
34) Trichloroethene	6.539	95	168202	50.014	ug/L	98
35) Methylcyclohexane	6.761	83	229609	50.351	ug/L	99
37) 1,2-Dichloropropane	6.787	63	202507	50.378	ug/L	99
38) Bromodichloromethane	7.102	83	251474	50.004	ug/L	100
39) cis-1,3-Dichloropropene	7.603	75	269501	51.254	ug/L	98
40) 4-Methyl-2-pentanone	7.787	43	568166	107.335	ug/L	99
42) Toluene	7.967	91	784942	53.759	ug/L	99
44) trans-1,3-Dichloropropene	8.208	75	259363	51.476	ug/L	99
45) 1,1,2-Trichloroethane	8.398	97	204665	50.103	ug/L	99
46) Tetrachloroethene	8.552	164	124781	46.459	ug/L	96
48) 2-Hexanone	8.681	43	454690	100.015	ug/L	99
49) Dibromochloromethane	8.806	129	208300	49.457	ug/L	100
50) 1,2-Dibromoethane	8.922	107	205365	49.941	ug/L	98
51) Chlorobenzene	9.443	112	495618	49.676	ug/L	100
52) Ethylbenzene	9.568	91	782874	52.392	ug/L	98
53) m,p-Xylene	9.690	106	312066	53.953	ug/L	98
54) o-Xylene	10.099	106	318799	54.153	ug/L	100
55) Styrene	10.111	104	551116	54.256	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.780	83	381839	49.468	ug/L	99
59) Bromoform	10.288	173	157960	47.741	ug/L	99
60) 1,2,3-Trichloropropane	10.819	75	287978	49.332	ug/L	100
61) Isopropylbenzene	10.481	105	767705	53.825	ug/L	100
62) 1,3,5-Trimethylbenzene	11.086	105	627894	54.026	ug/L	99
63) 1,2,4-Trimethylbenzene	11.465	105	625494	55.086	ug/L	100
64) 1,3-Dichlorobenzene	11.742	146	363029	50.219	ug/L	99
65) 1,4-Dichlorobenzene	11.832	146	359019	49.043	ug/L	99
67) 1,2-Dichlorobenzene	12.208	146	382010	49.696	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.992	75	71845	48.070	ug/L	94
69) 1,3,5-Trichlorobenzene	13.214	180	230178	47.995	ug/L	99
70) 1,2,4-trichlorobenzene	13.838	180	177347	46.653	ug/L	99
71) Naphthalene	14.082	128	643889	51.502	ug/L	100
72) 1,2,3-Trichlorobenzene	14.327	180	206165	49.551	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 y-axis represents Abundance, ranging from 0 to 2,100,000. 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	Approx. Retention Time (min)	Approx. Relative Abundance
1,1-Dichloroethane, T	3.8	280,000
1,1,1-Trichloroethane, T	4.5	180,000
1,1,2,2-Tetrachloroethane, T	5.2	150,000
1,1,2,3-Tetrachlorobutane, T	5.8	120,000
1,1,2,4-Tetrachlorobutane, T	6.2	110,000
1,1,3,3-Tetrachlorobutane, T	6.5	100,000
1,1,2,5-Tetrachloropentane, T	6.8	90,000
1,1,3,5-Tetrachloropentane, T	7.2	80,000
1,1,2,6-Tetrachlorohexane, T	7.5	70,000
1,1,3,6-Tetrachlorohexane, T	7.8	60,000
1,1,2,7-Tetrachloroheptane, T	8.2	50,000
1,1,3,7-Tetrachloroheptane, T	8.5	40,000
1,1,2,8-Tetrachlorooctane, T	8.8	30,000
1,1,3,8-Tetrachlorooctane, T	9.2	20,000
1,1,2,9-Tetrachlorononane, T	9.5	10,000
1,1,3,9-Tetrachlorononane, T	9.8	5,000
1,1,2,10-Tetrachlorodecane, T	10.2	2,000
1,1,3,10-Tetrachlorodecane, T	10.5	1,000
1,1,2,11-Tetrachloroundecane, T	10.8	500
1,1,3,11-Tetrachloroundecane, T	11.2	200
1,1,2,12-Tetrachlorododecane, T	11.5	100
1,1,3,12-Tetrachlorododecane, T	11.8	50
1,1,2,13-Tetrachlorotridecane, T	12.2	20
1,1,3,13-Tetrachlorotridecane, T	12.5	10
1,1,2,14-Tetrachlorotetradecane, T	12.8	5
1,1,3,14-Tetrachlorotetradecane, T	13.2	2
1,1,2,15-Tetrachloropentadecane, T	13.5	1
1,1,3,15-Tetrachloropentadecane, T	13.8	0.5
1,1,2,16-Tetrachlorohexadecane, T	14.2	0.2
1,1,3,16-Tetrachlorohexadecane, T	14.5	0.1
1,1,2,17-Tetrachloroheptadecane, T	14.8	0.05
1,1,3,17-Tetrachloroheptadecane, T	15.2	0.02
1,1,2,18-Tetrachlorooctadecane, T	15.5	0.01
1,1,3,18-Tetrachlorooctadecane, T	15.8	0.005
1,1,2,19-Tetrachlorononadecane, T	16.2	0.002
1,1,3,19-Tetrachlorononadecane, T	16.5	0.001
1,1,2,20-Tetrachloracosane, T	16.8	0.0005
1,1,3,20-Tetrachloracosane, T	17.2	0.0002
1,1,2,21-Tetrachlorotriacontane, T	17.5	0.0001
1,1,3,21-Tetrachlorotriacontane, T	17.8	0.00005
1,1,2,22-Tetrachlorotetracosane, T	18.2	0.00002
1,1,3,22-Tetrachlorotetracosane, T	18.5	0.00001
1,1,2,23-Tetrachloropentacosane, T	18.8	0.000005
1,1,3,23-Tetrachloropentacosane, T	19.2	0.000002
1,1,2,24-Tetrachlorohexacosane, T	19.5	0.000001
1,1,3,24-Tetrachlorohexacosane, T	19.8	0.0000005
1,1,2,25-Tetrachloroheptacosane, T	20.2	0.0000002
1,1,3,25-Tetrachloroheptacosane, T	20.5	0.0000001
1,1,2,26-Tetrachlorooctacosane, T	20.8	0.00000005
1,1,3,26-Tetrachlorooctacosane, T	21.2	0.00000002
1,1,2,27-Tetrachlorononacosane, T	21.5	0.00000001
1,1,3,27-Tetrachlorononacosane, T	21.8	0.000000005
1,1,2,28-Tetrachlorotriacontane, T	22.2	0.000000002
1,1,3,28-Tetrachlorotriacontane, T	22.5	0.000000001
1,1,2,29-Tetrachlorotriacontane, T	22.8	0.0000000005
1,1,3,29-Tetrachlorotriacontane, T	23.2	0.0000000002
1,1,2,30-Tetrachlorotriacontane, T	23.5	0.0000000001
1,1,3,30-Tetrachlorotriacontane, T	23.8	0.00000000005
1,1,2,31-Tetrachlorotriacontane, T	24.2	0.00000000002
1,1,3,31-Tetrachlorotriacontane, T	24.5	0.00000000001
1,1,2,32-Tetrachlorotriacontane, T	24.8	0.000000000005
1,1,3,32-Tetrachlorotriacontane, T	25.2	0.000000000002
1,1,2,33-Tetrachlorotriacontane, T	25.5	0.000000000001
1,1,3,33-Tetrachlorotriacontane, T	25.8	0.0000000000005
1,1,2,34-Tetrachlorotriacontane, T	26.2	0.0000000000002
1,1,3,34-Tetrachlorotriacontane, T	26.5	0.0000000000001
1,1,2,35-Tetrachlorotriacontane, T	26.8	0.00000000000005
1,1,3,35-Tetrachlorotriacontane, T	27.2	0.00000000000002
1,1,2,36-Tetrachlorotriacontane, T	27.5	0.00000000000001
1,1,3,36-Tetrachlorotriacontane, T	27.8	0.000000000000005
1,1,2,37-Tetrachlorotriacontane, T	28.2	0.000000000000002
1,1,3,37-Tetrachlorotriacontane, T	28.5	0.000000000000001
1,1,2,38-Tetrachlorotriacontane, T	28.8	0.0000000000000005
1,1,3,38-Tetrachlorotriacontane, T	29.2	0.0000000000000002
1,1,2,39-Tetrachlorotriacontane, T	29.5	0.0000000000000001
1,1,3,39-Tetrachlorotriacontane, T	29.8	0.00000000000000005
1,1,2,40-Tetrachlorotriacontane, T	30.2	0.00000000000000002
1,1,3,40-Tetrachlorotriacontane, T	30.5	0.00000000000000001
1,1,2,4		