

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010721\
 Data File : VX020515.D
 Acq On : 06 Jan 2021 13:06
 Operator : JC/MD
 Sample : VSTD005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTD005403

Manual Integrations
 APPROVED

MMDadoda
 1/8/2021 10:10:52 AM

Quant Time: Jan 06 15:07:00 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SFAMXLM010721WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jan 06 15:06:45 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.824	114	332722	50.00	ug/L	0.00
28) Chlorobenzene-d5	10.092	117	323158	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.061	152	150994	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.386	65	12242	5.23	ug/L	0.00
7) Chloroethane-d5	1.691	69	9774	5.43	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.343	63	21276	4.57	ug/L	0.00
21) 2-Butanone-d5	4.526	46	14133	9.42	ug/L	0.00
24) Chloroform-d	5.135	84	18073	4.15	ug/L	0.00
26) 1,2-Dichloroethane-d4	6.025	65	14651	4.58	ug/L	0.00
32) Benzene-d6	6.044	84	42390	4.84	ug/L	0.00
36) 1,2-Dichloropropane-d6	7.367	67	13441	4.93	ug/L	0.00
41) Toluene-d8	8.696	98	35700	4.20	ug/L	0.00
43) trans-1,3-Dichloroprop...	8.988	79	5599	3.71	ug/L	0.00
47) 2-Hexanone-d5	9.421	63	8781	7.72	ug/L	0.00
56) 1,1,2,2-Tetrachloroeth...	11.232	84	17723	4.84	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	12.360	152	13774	4.64	ug/L	0.00
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.185	85	13270	4.51	ug/L	99
3) Chloromethane	1.313	50	11923	5.12	ug/L	96
5) Vinyl chloride	1.392	62	12577	4.90	ug/L	95
6) Bromomethane	1.630	94	7628	5.57	ug/L	98
8) Chloroethane	1.709	64	7412	4.93	ug/L	97
9) Trichlorofluoromethane	1.916	101	15568	3.83	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.367	101	9343	4.10	ug/L	98
12) 1,1-Dichloroethene	2.355	96	8981	4.17	ug/L	92
13) Acetone	2.416	43	11065	9.77	ug/L	95
14) Carbon disulfide	2.550	76	29657	4.52	ug/L	99
15) Methyl Acetate	2.745	43	9758	4.15	ug/L	99
16) Methylene chloride	2.831	84	11529	4.82	ug/L	98
17) trans-1,2-Dichloroethene	3.142	96	9979	4.40	ug/L	96
18) Methyl tert-butyl Ether	3.166	73	27621	3.84	ug/L	99
19) 1,1-Dichloroethane	3.666	63	18037	4.31	ug/L	94
20) cis-1,2-Dichloroethene	4.556	96	10181m	4.09	ug/L	
22) 2-Butanone	4.635	43	14674	8.63	ug/L	98
23) Bromochloromethane	4.977	128	5584	4.16	ug/L	96
25) Chloroform	5.172	83	22273	4.78	ug/L	99
27) 1,2-Dichloroethane	6.159	62	14548	3.99	ug/L	98
29) Cyclohexane	5.544	56	13048	3.61	ug/L	99
30) 1,1,1-Trichloroethane	5.452	97	15554	3.63	ug/L	99
31) Carbon tetrachloride	5.745	117	13326	3.49	ug/L	99
33) Benzene	6.111	78	40119	4.30	ug/L	100
34) Trichloroethene	7.184	95	10546	4.13	ug/L	97
35) Methylcyclohexane	7.434	83	13553	3.62	ug/L	97
37) 1,2-Dichloropropane	7.482	63	10241	4.18	ug/L #	96
38) Bromodichloromethane	7.872	83	12996	3.79	ug/L	94
39) cis-1,3-Dichloropropene	8.409	75	13704	3.52	ug/L	97
40) 4-Methyl-2-pentanone	8.616	43	22165	6.83	ug/L	98
42) Toluene	8.763	91	38436	3.84	ug/L	99
44) trans-1,3-Dichloropropene	9.019	75	12675	3.21	ug/L	98

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

45) 1,1,2-Trichloroethane	9.195	97	10988	4.67	ug/L	91
46) Tetrachloroethene	9.317	164	8150	3.94	ug/L	94
48) 2-Hexanone	9.470	43	18320	7.21	ug/L	93
49) Dibromochloromethane	9.561	129	9930	3.47	ug/L	97
50) 1,2-Dibromoethane	9.653	107	10565	4.12	ug/L	99
51) Chlorobenzene	10.116	112	26548	4.02	ug/L	100
52) Ethylbenzene	10.232	91	40257	3.63	ug/L	99
53) m,p-Xylene	10.342	106	14305	3.42	ug/L	94
54) o-Xylene	10.683	106	13915	3.47	ug/L	99
55) Styrene	10.695	104	22700	3.27	ug/L	97
57) 1,1,2,2-Tetrachloroethane	11.250	83	15378	4.21	ug/L	99
59) Bromoform	10.841	173	6644	3.40	ug/L	99
60) Isopropylbenzene	11.000	105	35534	3.61	ug/L	98
61) 1,2,3-Trichloropropane	11.274	75	12754	4.50	ug/L	98
62) 1,3,5-Trimethylbenzene	11.488	105	26657	3.27	ug/L	100
63) 1,2,4-Trimethylbenzene	11.793	105	26153	3.17	ug/L	97
64) 1,3-Dichlorobenzene	12.006	146	18080	3.77	ug/L	96
65) 1,4-Dichlorobenzene	12.079	146	19328	3.99	ug/L	96
67) 1,2-Dichlorobenzene	12.372	146	18856	4.04	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.981	75	2919	3.60	ug/L	91
69) 1,3,5-Trichlorobenzene	13.152	180	12142	3.74	ug/L	97
70) 1,2,4-trichlorobenzene	13.628	180	9337	3.18	ug/L	97
71) Naphthalene	13.817	128	26600	2.86	ug/L	100
72) 1,2,3-Trichlorobenzene	13.999	180	9770	3.32	ug/L	98

(#) = 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 850,000, and the x-axis represents time from 0 to 16 minutes. The following table lists the compounds identified at their respective retention times:

Retention Time (min)	Compound(s)
~1.5	Dichlorodifluoromethane, T
~1.8	Chloroethane, S
~2.2	Trichlorofluoromethane, T
~2.5	Acetone, 1,1-Dichloroethane, T
~2.8	Carbon disulfide, T
~3.2	Methyl ethyl ether, T
~3.8	1,1-Dichloroethane, T
~4.5	2-Butanone, T
~5.2	Bromochloromethane, T
~5.8	1,1,1-Trichloroethane, T
~6.2	Carbon tetrachloride, T
~6.5	1,2-Dichloroethane-d4, S
~6.8	1,4-Difluorobenzene, I
~7.2	Trichloroethene, T
~7.5	1,2-Dichloropropane, S
~8.2	Bromodichloromethane, T
~8.8	cis-1,3-Dichloropropene, T
~9.2	trans-1,3-Dichloropropene, S
~9.5	1,1,2-Trichloroethane, T
~9.8	1,2-Dichloroethane, T
~10.2	Chlorobenzene-d5, I
~10.5	Chlorobenzene, T
~10.8	m,p-Xylene, I
~11.2	Styrene, T
~11.5	Bromofluorobenzene
~11.8	Isopropylbenzene
~12.2	1,3,5-Trimethylbenzene, T
~12.5	1,3,5-Trimethylbenzene
~12.8	1,2,4-Trimethylbenzene
~13.2	1,3-Dichlorobenzene, T
~13.5	1,1,2,2-Tetrachloroethane-d4, S
~13.8	1,2-Dibromo-3-chloropropane, T
~14.2	1,3,5-Trichlorobenzene
~14.5	1,2,4-trichlorobenzene, T
~14.8	Naphthalene
~15.2	1,2,3-Trichlorobenzene, T