

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030821\
 Data File : VY004064.D
 Acq On : 08 Mar 2021 11:51
 Operator : SY/MD
 Sample : VSTDIC100
 Misc : 5.00g/5mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 3/9/2021 3:03:07 PM

Quant Time: Mar 08 12:04:47 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030821S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 08 11:57:34 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.801	168	298545	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	471646	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	418874	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	204647	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	279571	101.04	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	202.08%#
35) Dibromofluoromethane	7.734	113	257835	89.52	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	179.04%#
50) Toluene-d8	10.185	98	1005661	88.34	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	176.68%#
62) 4-Bromofluorobenzene	12.483	95	365993	95.39	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	190.78%#

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.912	85	192711	82.26	ug/l	100
3) Chloromethane	2.119	50	270200	97.34	ug/l	100
4) Vinyl Chloride	2.259	62	322516	100.34	ug/l	100
5) Bromomethane	2.650	94	200044	89.70	ug/l	97
6) Chloroethane	2.796	64	198793	97.29	ug/l	99
7) Trichlorofluoromethane	3.137	101	440294	90.82	ug/l	100
8) Diethyl Ether	3.540	74	139274	93.75	ug/l	89
9) 1,1,2-Trichlorotrifluo...	3.912	101	246949	93.10	ug/l	98
10) Methyl Iodide	4.107	142	280543	91.44	ug/l	100
11) Tert butyl alcohol	4.978	59	110662	456.96	ug/l #	95
12) 1,1-Dichloroethene	3.887	96	242666	93.93	ug/l	95
13) Acrolein	3.741	56	133488	553.47	ug/l	99
14) Allyl chloride	4.497	41	408316	109.01	ug/l	93
15) Acrylonitrile	5.186	53	343542	472.52	ug/l	99
16) Acetone	3.960	43	335934	569.73	ug/l	94
17) Carbon Disulfide	4.210	76	699114	91.53	ug/l	97
18) Methyl Acetate	4.497	43	155939	101.08	ug/l	95
19) Methyl tert-butyl Ether	5.241	73	688399	95.34	ug/l	100
20) Methylene Chloride	4.735	84	268018	78.06	ug/l	96
21) trans-1,2-Dichloroethene	5.234	96	276073	90.35	ug/l	100
22) Diisopropyl ether	6.137	45	865280	98.57	ug/l	98
23) Vinyl Acetate	6.076	43	2821891	501.73	ug/l	97
24) 1,1-Dichloroethane	6.033	63	480684	93.04	ug/l	99
25) 2-Butanone	7.002	43	464712	508.39	ug/l	94
26) 2,2-Dichloropropane	6.996	77	465404	101.15	ug/l	100
27) cis-1,2-Dichloroethene	7.002	96	314993	92.18	ug/l	96
28) Bromochloromethane	7.350	49	211539	103.05	ug/l	94
29) Tetrahydrofuran	7.362	42	296384	500.01	ug/l	96
30) Chloroform	7.521	83	498968	94.03	ug/l	99
31) Cyclohexane	7.795	56	448941	94.51	ug/l	96
32) 1,1,1-Trichloroethane	7.716	97	465868	95.36	ug/l	100
36) 1,1-Dichloropropene	7.929	75	391794	94.00	ug/l	99
37) Ethyl Acetate	7.088	43	202604	96.31	ug/l	98
38) Carbon Tetrachloride	7.911	117	422057	92.56	ug/l	99
39) Methylcyclohexane	9.191	83	501483	88.76	ug/l	95
40) Benzene	8.173	78	1104729	91.92	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.338	41	122362m	94.52	ug/l	
42) 1,2-Dichloroethane	8.246	62	334244	97.37	ug/l	98
43) Isopropyl Acetate	8.283	43	408522	101.16	ug/l	98
44) Trichloroethene	8.947	130	318802	84.59	ug/l	98
45) 1,2-Dichloropropane	9.222	63	278280	91.27	ug/l	98
46) Dibromomethane	9.313	93	155688	88.64	ug/l	95
47) Bromodichloromethane	9.502	83	395146	92.48	ug/l	99
48) Methyl methacrylate	9.301	41	196568	102.03	ug/l	94
49) 1,4-Dioxane	9.307	88	37854	1678.36	ug/l	96
51) 4-Methyl-2-Pentanone	10.075	43	1033399	483.41	ug/l	98
52) Toluene	10.252	92	719927	87.58	ug/l	97
53) t-1,3-Dichloropropene	10.471	75	417884	93.64	ug/l	99
54) cis-1,3-Dichloropropene	9.935	75	468312	92.30	ug/l	98
55) 1,1,2-Trichloroethane	10.648	97	216758	86.14	ug/l	99
56) Ethyl methacrylate	10.514	69	303598	93.31	ug/l	95
57) 1,3-Dichloropropane	10.794	76	374535	91.07	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.789	63	592233	407.72	ug/l	98
59) 2-Hexanone	10.837	43	723794	505.78	ug/l	100
60) Dibromochloromethane	10.990	129	282458	89.39	ug/l	99
61) 1,2-Dibromoethane	11.093	107	210167	86.96	ug/l	99
64) Tetrachloroethene	10.727	164	322569	80.78	ug/l	96
65) Chlorobenzene	11.520	112	761552	87.36	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.593	131	287306	87.76	ug/l	99
67) Ethyl Benzene	11.599	91	1416063	93.69	ug/l	98
68) m/p-Xylenes	11.709	106	1083030	182.23	ug/l	97
69) o-Xylene	12.032	106	507800	89.28	ug/l	98
70) Styrene	12.050	104	882463	91.45	ug/l	99
71) Bromoform	12.215	173	170428	82.04	ug/l	99
73) Isopropylbenzene	12.331	105	1399427	96.05	ug/l	99
74) N-amyl acetate	12.148	43	391360	110.60	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.587	83	234000	91.30	ug/l	98
76) 1,2,3-Trichloropropane	12.636	75	180526m	90.41	ug/l	
77) Bromobenzene	12.611	156	316851	87.08	ug/l	97
78) n-propylbenzene	12.672	91	1653276	98.40	ug/l	99
79) 2-Chlorotoluene	12.758	91	921738	98.86	ug/l	100
80) 1,3,5-Trimethylbenzene	12.818	105	1180244	99.26	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.386	75	95660	94.15	ug/l	98
82) 4-Chlorotoluene	12.861	91	979219	100.38	ug/l	99
83) tert-Butylbenzene	13.081	119	1014564	96.72	ug/l	99
84) 1,2,4-Trimethylbenzene	13.123	105	1173276	97.60	ug/l	99
85) sec-Butylbenzene	13.257	105	1400728	99.60	ug/l	100
86) p-Isopropyltoluene	13.373	119	1297264	98.27	ug/l	99
87) 1,3-Dichlorobenzene	13.367	146	608153	90.62	ug/l	98
88) 1,4-Dichlorobenzene	13.446	146	606829	89.42	ug/l	98
89) n-Butylbenzene	13.696	91	1216519	98.91	ug/l	99
90) Hexachloroethane	13.965	117	236644	97.61	ug/l	82
91) 1,2-Dichlorobenzene	13.745	146	537398	88.16	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.361	75	42117	94.03	ug/l	95
93) 1,2,4-Trichlorobenzene	15.007	180	356982	81.53	ug/l	98
94) Hexachlorobutadiene	15.111	225	198585	75.99	ug/l	99
95) Naphthalene	15.239	128	702489	87.26	ug/l	99
96) 1,2,3-Trichlorobenzene	15.428	180	300398	83.29	ug/l	98

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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 representing different chemical compounds. The x-axis is labeled 'Time-->' and ranges from 2.00 to 16.00 minutes. The y-axis is labeled 'Abundance' and ranges from 0 to 4,600,000. 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. Abundance
Dichlorodifluoromethane, T	2.1	250,000
Chloromethane, P	2.3	350,000
Vinyl Chloride, C	2.5	300,000
Bromomethane, T	2.8	250,000
Chloroethane, T	3.0	200,000
Trichlorofluoromethane, T	3.2	400,000
Diethyl Ether, T	3.5	250,000
Acrolein, T	3.8	150,000
Acetone, T	4.0	300,000
1,1,2,2-Tetrachloroethane, T	4.1	150,000
Methyl Carbon Disulfide, T	4.2	250,000
Methyl acetate, T	4.5	450,000
Methylene Chloride, T	4.8	250,000
Tert butyl alcohol, T	5.0	100,000
Acetonitrile, T	5.2	100,000
Methyl isobutyl ketone, T	5.5	100,000
1,1-Dichloroethane, P	6.0	600,000
Diisopropyl ether, T	6.2	500,000
Vinyl Acetate, T	6.5	600,000
Ethyl Acetate, T	7.0	1200,000
2,2,4,4-Tetrachlorobutane, T	7.2	1400,000
Methyl isobutyl ketone, T	7.5	700,000
Chloroform, C	7.8	500,000
Dibromodichloromethane, T	8.0	1100,000
1,2-Dichloroethane, T	8.2	1100,000
1,4-Difluorobenzene, I	8.8	550,000
Trichloroethene, TM	9.0	900,000
1,4-Dichlorobenzene, I	9.2	800,000
Dimethyl cyclohexane, T	9.5	800,000
Bromodichloromethane, T	9.8	600,000
cis-1,3-Dichloropropene, I	10.0	950,000
2-Chloroethyl Vinyl ether, T	10.2	1400,000
4-Methyl-2-Pentanone, T	10.5	1700,000
Toluene, CM	10.8	1700,000
Ethyl methyl 2-chloropropene, T	11.0	800,000
1,1,2-Trichloroethane, T	11.2	700,000
1,3-Dichloropropane, I	11.5	600,000
2-Hexanone, I	11.8	500,000
Dibromochloromethane, T	12.0	500,000
1,2-Dibromoethane, I	12.2	400,000
Chlorobenzene, PM	12.5	300,000
Chlorobenzene, d5, I	12.8	300,000
N-amyl acetate, T	13.0	400,000
Bromofluorobenzene, S	13.2	200,000
trans-1,4-Dichloro-2-butene, I	13.5	200,000
4-Bromofluorobenzene, T	13.8	200,000
1,1,2,2-Tetrachloroethane, T	14.0	200,000
1,2-Dichlorobenzene, T	14.2	200,000
1,4-Dichlorobenzene, d4, I	14.5	200,000
1,4-Dichlorobenzene, T	14.8	200,000
1,2-Dichloroethane, T	15.0	200,000
Hexachloroethane, T	15.2	200,000
1,2-Dibromo-3-Chloropropane, T	15.5	200,000
1,2,4-Trichlorobenzene, T	15.8	200,000
Hexachlorobutadiene, T	16.0	200,000
1,2,3-Trichlorobenzene, T	16.2	200,000