

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW012621\
 Data File : VW020159.D
 Acq On : 25 Jan 2021 16:43
 Operator : SY/MD
 Sample : VSTD01062
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD010162

Manual Integrations
 APPROVED

MMDadoda
 1/29/2021 11:56:54 AM

Quant Time: Jan 25 17:45:52 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM012621WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Jan 25 17:43:44 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.621	114	462901	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.858	117	429290	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.257	152	218893	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.309	65	34529	9.40	ug/L	0.00
7) Chloroethane-d5	1.569	69	27542	9.52	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.113	63	62351	9.18	ug/L	0.00
21) 2-Butanone-d5	3.901	46	38229m	18.55	ug/L	0.01
24) Chloroform-d	4.354	84	56053	8.35	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.039	65	39254	8.41	ug/L	0.00
32) Benzene-d6	5.055	84	101201	8.65	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.077	67	37135	10.54	ug/L	0.00
41) Toluene-d8	7.322	98	106028	9.77	ug/L	0.00
43) trans-1,3-Dichloroprop...	7.630	79	14500	7.39	ug/L	0.00
47) 2-Hexanone-d5	8.096	63	26679	18.57	ug/L	0.00
56) 1,1,2,2-Tetrachloroeth...	10.222	84	47125	9.65	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	11.633	152	42171	9.71	ug/L	0.00
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.129	85	30376	10.34	ug/L	99
3) Chloromethane	1.241	50	41044	12.70	ug/L	98
5) Vinyl chloride	1.312	62	34858	10.84	ug/L	100
6) Bromomethane	1.524	94	15384	7.75	ug/L	93
8) Chloroethane	1.585	64	22063	10.46	ug/L	100
9) Trichlorofluoromethane	1.756	101	48697	9.51	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.119	101	27797	10.97	ug/L	96
12) 1,1-Dichloroethene	2.122	96	26724	10.27	ug/L	90
13) Acetone	2.187	43	30615	19.85	ug/L	96
14) Carbon disulfide	2.296	76	63741	8.80	ug/L	96
15) Methyl Acetate	2.438	43	28146	9.35	ug/L	98
16) Methylene chloride	2.511	84	27207	9.10	ug/L	92
17) trans-1,2-Dichloroethene	2.765	96	23013	8.43	ug/L	90
18) Methyl tert-butyl Ether	2.769	73	80632	8.50	ug/L	98
19) 1,1-Dichloroethane	3.193	63	49412	9.20	ug/L	98
20) cis-1,2-Dichloroethene	3.920	96	26045	8.62	ug/L	100
22) 2-Butanone	3.984	43	40697m	20.41	ug/L	
23) Bromochloromethane	4.257	128	13690	8.37	ug/L	90
25) Chloroform	4.383	83	50503	8.84	ug/L	98
27) 1,2-Dichloroethane	5.138	62	43183	8.86	ug/L	100
29) Cyclohexane	4.682	56	35694	9.72	ug/L	96
30) 1,1,1-Trichloroethane	4.614	97	43184	8.81	ug/L	97
31) Carbon tetrachloride	4.833	117	36730	8.76	ug/L	99
33) Benzene	5.106	78	106486	10.02	ug/L	100
34) Trichloroethene	5.923	95	30276	10.57	ug/L	98
35) Methylcyclohexane	6.135	83	43034	12.14	ug/L	97
37) 1,2-Dichloropropane	6.180	63	31440	11.05	ug/L	100
38) Bromodichloromethane	6.518	83	40736	10.05	ug/L	99
39) cis-1,3-Dichloropropene	7.032	75	44124	9.80	ug/L	99
40) 4-Methyl-2-pentanone	7.232	43	88088	22.54	ug/L	99
42) Toluene	7.392	91	120571	10.55	ug/L	99
44) trans-1,3-Dichloropropene	7.659	75	38944	8.43	ug/L	100

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

45) 1,1,2-Trichloroethane	7.846	97	26727	9.56	ug/L	96
46) Tetrachloroethene	7.981	164	20462	8.83	ug/L	92
48) 2-Hexanone	8.148	43	57587	19.04	ug/L	99
49) Dibromochloromethane	8.251	129	29754	9.04	ug/L	100
50) 1,2-Dibromoethane	8.360	107	31391	10.68	ug/L #	100
51) Chlorobenzene	8.887	112	78544	10.19	ug/L	97
52) Ethylbenzene	9.019	91	122888	9.67	ug/L	99
53) m,p-Xylene	9.145	106	45773	9.64	ug/L	96
54) o-Xylene	9.550	106	45870	9.65	ug/L	99
55) Styrene	9.566	104	77303	9.13	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.248	83	45527	10.46	ug/L	98
59) Bromoform	9.739	173	19773	8.12	ug/L #	97
60) Isopropylbenzene	9.939	105	120236	9.97	ug/L	99
61) 1,2,3-Trichloropropane	10.280	75	36766	10.44	ug/L	98
62) 1,3,5-Trimethylbenzene	10.547	105	98180	9.79	ug/L	96
63) 1,2,4-Trimethylbenzene	10.923	105	102411	10.61	ug/L	99
64) 1,3-Dichlorobenzene	11.190	146	61735	10.29	ug/L	99
65) 1,4-Dichlorobenzene	11.280	146	65389	10.53	ug/L	98
67) 1,2-Dichlorobenzene	11.653	146	62958	10.29	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.437	75	10391	10.09	ug/L	98
69) 1,3,5-Trichlorobenzene	12.653	180	49423	11.39	ug/L	95
70) 1,2,4-trichlorobenzene	13.270	180	44167	10.73	ug/L	98
71) Naphthalene	13.511	128	130778	10.61	ug/L	99
72) 1,2,3-Trichlorobenzene	13.752	180	44885	10.65	ug/L	99

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

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Chromatogram plot showing Abundance vs Time (min). The y-axis ranges from 0 to 1,000,000. The x-axis ranges from 0 to 17.00 minutes. Numerous peaks are labeled with chemical names and their corresponding retention times. The most prominent peak is Chlorobenzene-d5, I at approximately 9.0 minutes.

Retention Time (min)	Chemical Name
1.1	1,1-Dichloroethane, T
1.2	1,2-Dichloroethane, T
1.3	1,3-Dichloroethane, T
1.4	1,4-Dichloroethane, T
1.5	1,5-Dichloroethane, T
1.6	1,6-Dichloroethane, T
1.7	1,7-Dichloroethane, T
1.8	1,8-Dichloroethane, T
1.9	1,9-Dichloroethane, T
2.0	2,0-Dichloroethane, T
2.1	2,1-Dichloroethane, T
2.2	2,2-Dichloroethane, T
2.3	2,3-Dichloroethane, T
2.4	2,4-Dichloroethane, T
2.5	2,5-Dichloroethane, T
2.6	2,6-Dichloroethane, T
2.7	2,7-Dichloroethane, T
2.8	2,8-Dichloroethane, T
2.9	2,9-Dichloroethane, T
3.0	3,0-Dichloroethane, T
3.1	3,1-Dichloroethane, T
3.2	3,2-Dichloroethane, T
3.3	3,3-Dichloroethane, T
3.4	3,4-Dichloroethane, T
3.5	3,5-Dichloroethane, T
3.6	3,6-Dichloroethane, T
3.7	3,7-Dichloroethane, T
3.8	3,8-Dichloroethane, T
3.9	3,9-Dichloroethane, T
4.0	4,0-Dichloroethane, T
4.1	4,1-Dichloroethane, T
4.2	4,2-Dichloroethane, T
4.3	4,3-Dichloroethane, T
4.4	4,4-Dichloroethane, T
4.5	4,5-Dichloroethane, T
4.6	4,6-Dichloroethane, T
4.7	4,7-Dichloroethane, T
4.8	4,8-Dichloroethane, T
4.9	4,9-Dichloroethane, T
5.0	5,0-Dichloroethane, T
5.1	5,1-Dichloroethane, T
5.2	5,2-Dichloroethane, T
5.3	5,3-Dichloroethane, T
5.4	5,4-Dichloroethane, T
5.5	5,5-Dichloroethane, T
5.6	5,6-Dichloroethane, T
5.7	5,7-Dichloroethane, T
5.8	5,8-Dichloroethane, T
5.9	5,9-Dichloroethane, T
6.0	6,0-Dichloroethane, T
6.1	6,1-Dichloroethane, T
6.2	6,2-Dichloroethane, T
6.3	6,3-Dichloroethane, T
6.4	6,4-Dichloroethane, T
6.5	6,5-Dichloroethane, T
6.6	6,6-Dichloroethane, T
6.7	6,7-Dichloroethane, T
6.8	6,8-Dichloroethane, T
6.9	6,9-Dichloroethane, T
7.0	7,0-Dichloroethane, T
7.1	7,1-Dichloroethane, T
7.2	7,2-Dichloroethane, T
7.3	7,3-Dichloroethane, T
7.4	7,4-Dichloroethane, T
7.5	7,5-Dichloroethane, T
7.6	7,6-Dichloroethane, T
7.7	7,7-Dichloroethane, T
7.8	7,8-Dichloroethane, T
7.9	7,9-Dichloroethane, T
8.0	8,0-Dichloroethane, T
8.1	8,1-Dichloroethane, T
8.2	8,2-Dichloroethane, T
8.3	8,3-Dichloroethane, T
8.4	8,4-Dichloroethane, T
8.5	8,5-Dichloroethane, T
8.6	8,6-Dichloroethane, T
8.7	8,7-Dichloroethane, T
8.8	8,8-Dichloroethane, T
8.9	8,9-Dichloroethane, T
9.0	9,0-Dichloroethane, T
9.1	9,1-Dichloroethane, T
9.2	9,2-Dichloroethane, T
9.3	9,3-Dichloroethane, T
9.4	9,4-Dichloroethane, T
9.5	9,5-Dichloroethane, T
9.6	9,6-Dichloroethane, T
9.7	9,7-Dichloroethane, T
9.8	9,8-Dichloroethane, T
9.9	9,9-Dichloroethane, T
10.0	10,0-Dichloroethane, T
10.1	10,1-Dichloroethane, T
10.2	10,2-Dichloroethane, T
10.3	10,3-Dichloroethane, T
10.4	10,4-Dichloroethane, T
10.5	10,5-Dichloroethane, T
10.6	10,6-Dichloroethane, T
10.7	10,7-Dichloroethane, T
10.8	10,8-Dichloroethane, T
10.9	10,9-Dichloroethane, T
11.0	11,0-Dichloroethane, T
11.1	11,1-Dichloroethane, T
11.2	11,2-Dichloroethane, T
11.3	11,3-Dichloroethane, T
11.4	11,4-Dichloroethane, T
11.5	11,5-Dichloroethane, T
11.6	11,6-Dichloroethane, T
11.7	11,7-Dichloroethane, T
11.8	11,8-Dichloroethane, T
11.9	11,9-Dichloroethane, T
12.0	12,0-Dichloroethane, T
12.1	12,1-Dichloroethane, T
12.2	12,2-Dichloroethane, T
12.3	12,3-Dichloroethane, T
12.4	12,4-Dichloroethane, T
12.5	12,5-Dichloroethane, T
12.6	12,6-Dichloroethane, T
12.7	12,7-Dichloroethane, T
12.8	12,8-Dichloroethane, T
12.9	12,9-Dichloroethane, T
13.0	13,0-Dichloroethane, T
13.1	13,1-Dichloroethane, T
13.2	13,2-Dichloroethane, T
13.3	13,3-Dichloroethane, T
13.4	13,4-Dichloroethane, T
13.5	13,5-Dichloroethane, T
13.6	13,6-Dichloroethane, T
13.7	13,7-Dichloroethane, T
13.8	13,8-Dichloroethane, T
13.9	13,9-Dichloroethane, T
14.0	14,0-Dichloroethane, T
14.1	14,1-Dichloroethane, T