

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070920\
 Data File : VX017307.D
 Acq On : 09 Jul 2020 15:03
 Operator : JC/SP
 Sample : VX0709WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0709WBS01

Manual Integrations
 APPROVED

MMDadoda
 7/10/2020 12:36:48 PM

Quant Time: Jul 10 06:45:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X070920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 09 12:25:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	51600	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	261516	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	247899	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	108875	29.36	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.87%
60) 4-Bromofluorobenzene	11.12	95	122355	28.93	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.43%
63) Toluene-d8	8.70	98	324624	30.96	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	44690	19.813	ug/l 98
3) Chloromethane	1.31	50	48192	20.055	ug/l 98
4) Vinyl Chloride	1.39	62	46183	18.651	ug/l 99
5) Bromomethane	1.64	94	34077	20.648	ug/l 94
6) Chloroethane	1.72	64	30204	18.448	ug/l 98
7) Trichlorofluoromethane	1.92	101	83258	18.929	ug/l 95
8) Diethyl Ether	2.17	74	28895	18.517	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	48547	20.186	ug/l 97
10) 1,1-Dichloroethene	2.36	96	44770	18.881	ug/l 96
11) Methyl Iodide	2.50	142	45007	16.119	ug/l 98
12) Methyl Acetate	2.75	43	62912	19.041	ug/l 99
13) Acrolein	2.27	56	39674	92.857	ug/l 98
14) Acrylonitrile	3.12	53	142434	95.547	ug/l 98
15) Acetone	2.42	58	34672	92.224	ug/l 96
16) Carbon Disulfide	2.55	76	124285	19.324	ug/l 96
17) Allyl chloride	2.71	41	81631	18.505	ug/l 95
18) Methylene Chloride	2.84	84	54169	18.548	ug/l 98
19) trans-1,2-Dichloroethene	3.14	96	52728	19.019	ug/l 97
20) Diisopropyl ether	3.82	45	169453	19.214	ug/l 97
21) 1,1-Dichloroethane	3.67	63	94372	19.091	ug/l 98
22) cis-1,2-Dichloroethene	4.57	96	60282	19.059	ug/l 99
23) tert-Butyl Alcohol	3.01	59	55522	90.262	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	169350	18.707	ug/l 100
25) Chloroform	5.18	83	100294	19.042	ug/l 93
26) Cyclohexane	5.56	56	77198	20.045	ug/l # 100
29) 1,1-Dichloropropene	5.77	75	70499	19.549	ug/l 98
30) 2-Butanone	4.64	43	188969	95.799	ug/l 99
31) 2,2-Dichloropropane	4.55	77	84938	18.800	ug/l 99
32) 1,1,1-Trichloroethane	5.46	97	91022	19.386	ug/l 98
33) Carbon Tetrachloride	5.76	117	83415	19.266	ug/l 95
34) Benzene	6.12	78	208197	19.402	ug/l 96
35) Methacrylonitrile	5.01	41	43138	19.533	ug/l 98
36) 1,2-Dichloroethane	6.17	62	79553	18.824	ug/l 99
37) Trichloroethene	7.19	130	62577	19.389	ug/l 95
38) Methylcyclohexane	7.44	83	76206	20.053	ug/l 99
39) 1,2-Dichloropropane	7.49	63	54713	19.513	ug/l 99
40) Dibromomethane	7.64	93	39132	19.372	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.88	83	81153	19.250	ug/l	97
42) Vinyl Acetate	3.79	43	728825	96.683	ug/l	100
43) Ethyl Acetate	4.79	43	73664	18.985	ug/l #	84
44) Isopropyl Acetate	6.42	43	121824	18.871	ug/l	99
45) 1,4-Dioxane	7.71	88	22206	360.869	ug/l	96
46) Methyl methacrylate	7.74	41	58995	18.759	ug/l	98
47) n-amyl Acetate	10.88	43	102405	17.915	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	83014	17.837	ug/l	94
49) cis-1,3-Dichloropropene	8.42	75	91688	18.827	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	55092	18.409	ug/l	97
51) Ethyl methacrylate	9.16	69	79392	18.209	ug/l	97
52) 1,3-Dichloropropane	9.35	76	93887	19.260	ug/l	99
53) Dibromochloromethane	9.56	129	65464	17.920	ug/l	95
54) 1,2-Dibromoethane	9.65	107	60983	19.058	ug/l	95
55) 2-Chloroethyl vinyl ether	8.29	63	223812	106.689	ug/l	99
56) Bromoform	10.84	173	49327	17.310	ug/l	97
58) 4-Methyl-2-Pentanone	8.62	43	386022	98.275	ug/l	99
59) 2-Hexanone	9.47	43	286538	95.693	ug/l	99
61) Tetrachloroethene	9.32	164	63443	20.090	ug/l	98
62) Toluene	8.76	91	227475	19.383	ug/l	100
64) Chlorobenzene	10.12	112	146172	18.668	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.20	131	59660	18.649	ug/l	99
66) Ethyl Benzene	10.23	91	249406	18.885	ug/l	99
67) m/p-Xylenes	10.34	106	193243	37.876	ug/l	98
68) o-Xylene	10.68	106	90376	18.641	ug/l	95
69) Styrene	10.70	104	158507	18.434	ug/l	98
70) Isopropylbenzene	11.00	105	250253	18.816	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.25	83	80136	19.213	ug/l	98
72) 1,2,3-Trichloropropane	11.28	75	78989m	19.279	ug/l	
73) Bromobenzene	11.24	156	70372	18.833	ug/l	97
74) n-propylbenzene	11.34	91	285323	18.519	ug/l	99
75) 2-Chlorotoluene	11.40	91	173862	18.511	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	211345	18.523	ug/l	99
77) t-1,4-Dichloro-2-butene	11.05	75	28224	18.066	ug/l	96
78) 4-Chlorotoluene	11.49	91	205220	18.431	ug/l	100
79) tert-butylbenzene	11.76	119	207195	18.713	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	217419	18.887	ug/l	99
81) sec-Butylbenzene	11.93	105	238518	18.689	ug/l	100
82) p-Isopropyltoluene	12.05	119	223085	18.486	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	123740	18.401	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	126623	18.609	ug/l	98
85) n-Butylbenzene	12.37	91	185863	18.228	ug/l	99
86) Hexachloroethane	12.58	117	42910	18.380	ug/l	99
87) 1,2-Dichlorobenzene	12.38	146	120245	18.699	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	18878	18.681	ug/l	96
89) 1,2,4-Trichlorobenzene	13.63	180	79637	18.260	ug/l	97
90) Hexachlorobutadiene	13.76	225	34428	19.679	ug/l	95
91) Naphthalene	13.82	128	237685	17.776	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	77878	17.954	ug/l	98

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

