

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071218\
 Data File : VX003345.D
 Acq On : 12 Jul 2018 12:04
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 11:35:49 AM

Quant Time: Jul 12 13:23:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 12 13:04:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	57619	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	316742	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	292192	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	118070	26.83	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	89.43%
60) 4-Bromofluorobenzene	11.14	95	137733	28.54	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.13%
63) Toluene-d8	8.72	98	377886	29.61	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	226838	82.483	ug/l 99
3) Chloromethane	1.32	50	219072	73.378	ug/l 98
4) Vinyl Chloride	1.40	62	233998	70.343	ug/l 100
5) Bromomethane	1.64	94	93812	48.272	ug/l 99
6) Chloroethane	1.72	64	137078	61.272	ug/l 96
7) Trichlorofluoromethane	1.93	101	313257	52.979	ug/l 99
8) Diethyl Ether	2.19	74	129983	61.654	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	2.38	101	186948	55.241	ug/l 97
10) 1,1-Dichloroethene	2.37	96	174368	58.536	ug/l 93
11) Methyl Iodide	2.51	142	206619	60.230	ug/l 96
12) Methyl Acetate	2.78	43	303183	62.718	ug/l 96
13) Acrolein	2.29	56	103551	301.284	ug/l 98
14) Acrylonitrile	3.15	53	551177	303.157	ug/l 99
15) Acetone	2.45	58	139295	275.639	ug/l 79
16) Carbon Disulfide	2.57	76	494602	66.314	ug/l 100
17) Allyl chloride	2.73	41	338433	57.094	ug/l 93
18) Methylene Chloride	2.86	84	202589	59.419	ug/l 91
19) trans-1,2-Dichloroethene	3.17	96	187278	58.632	ug/l 97
20) Diisopropyl ether	3.88	45	574357	52.000	ug/l 98
21) 1,1-Dichloroethane	3.70	63	356772	60.070	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	198505	57.816	ug/l # 78
23) tert-Butyl Alcohol	3.08	59	229654m	278.214	ug/l
24) Methyl tert-Butyl Ether	3.21	73	588358	52.901	ug/l 91
25) Chloroform	5.22	83	313791	52.647	ug/l 99
26) Cyclohexane	5.57	56	281658	55.820	ug/l # 95
29) 1,1-Dichloropropene	5.80	75	238355	55.724	ug/l 98
30) 2-Butanone	4.71	43	660695	269.936	ug/l 95
31) 2,2-Dichloropropane	4.59	77	254897	55.758	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	270818	52.411	ug/l 100
33) Carbon Tetrachloride	5.79	117	245715	52.906	ug/l 93
34) Benzene	6.15	78	716281	56.544	ug/l 99
35) Methacrylonitrile	5.07	41	143429	53.823	ug/l 93
36) 1,2-Dichloroethane	6.20	62	248245	49.915	ug/l 96
37) Trichloroethene	7.21	130	196657	53.005	ug/l 94
38) Methylcyclohexane	7.46	83	275043	52.852	ug/l 96
39) 1,2-Dichloropropane	7.52	63	182773	55.314	ug/l 96
40) Dibromomethane	7.67	93	121063	52.734	ug/l 99

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

41) Bromodichloromethane	7.90	83	227353	52.720	ug/l	98
42) Vinyl Acetate	3.83	43	2437070	262.539	ug/l	97
43) Ethyl Acetate	4.87	43	252570	53.953	ug/l	96
44) Isopropyl Acetate	6.47	43	394955	50.354	ug/l	95
45) 1,4-Dioxane	7.76	88	86427	1124.775	ug/l #	85
46) Methyl methacrylate	7.78	41	209632	52.306	ug/l	90
47) n-amyl Acetate	10.90	43	347424	46.941	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	282567	55.813	ug/l	99
49) cis-1,3-Dichloropropene	9.04	75	253695	53.652	ug/l	93
50) 1,1,2-Trichloroethane	9.22	97	182652	53.939	ug/l	97
51) Ethyl methacrylate	9.18	69	271226	53.060	ug/l	86
52) 1,3-Dichloropropane	9.37	76	300880	54.399	ug/l	99
53) Dibromochloromethane	9.59	129	184720	51.384	ug/l	100
54) 1,2-Dibromoethane	9.68	107	189217	53.023	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	689647	284.059	ug/l	99
56) Bromoform	10.86	173	142432	49.631	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	1286010	259.227	ug/l	93
59) 2-Hexanone	9.50	43	988114	260.552	ug/l	93
61) Tetrachloroethene	9.34	164	213461	53.231	ug/l	99
62) Toluene	8.79	91	780147	55.391	ug/l	99
64) Chlorobenzene	10.14	112	516892	55.237	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	187919	54.787	ug/l	99
66) Ethyl Benzene	10.26	91	884166	55.741	ug/l	100
67) m/p-Xylenes	10.36	106	687749	111.572	ug/l	97
68) o-Xylene	10.70	106	334303	55.666	ug/l	95
69) Styrene	10.71	104	551681	55.062	ug/l	97
70) Isopropylbenzene	11.02	105	865518	52.265	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	266661	53.866	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	314131	73.200	ug/l	93
73) Bromobenzene	11.26	156	231634	50.297	ug/l	97
74) n-propylbenzene	11.36	91	993801	51.697	ug/l	99
75) 2-Chlorotoluene	11.42	91	588908	52.640	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	722136	51.357	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	77833	56.392	ug/l	97
78) 4-Chlorotoluene	11.51	91	686931	51.831	ug/l	98
79) tert-butylbenzene	12.07	119	762107	49.142	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	735668	51.237	ug/l	97
81) sec-Butylbenzene	11.95	105	847183	49.253	ug/l	100
82) p-Isopropyltoluene	12.07	119	762107	49.142	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	424979	50.147	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	423422	49.467	ug/l	99
85) n-Butylbenzene	12.39	91	662072	48.163	ug/l	100
86) Hexachloroethane	12.60	117	111128	47.276	ug/l	100
87) 1,2-Dichlorobenzene	12.40	146	425465	49.713	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	56406	51.006	ug/l	93
89) 1,2,4-Trichlorobenzene	13.65	180	310791	48.110	ug/l	99
90) Hexachlorobutadiene	13.79	225	145402	43.234	ug/l	100
91) Naphthalene	13.83	128	947397	55.328	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	316213	49.199	ug/l	99

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

