

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072718\
 Data File : VX003713.D
 Acq On : 27 Jul 2018 13:31
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 3:42:28 PM

Quant Time: Jul 27 15:40:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 27 14:47:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	18158	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	94144	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	113317	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	42288	34.10	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	113.67%
60) 4-Bromofluorobenzene	11.14	95	53096	29.16	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.20%
63) Toluene-d8	8.72	98	153388	30.62	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.07%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	6501	4.716	ug/l 97
3) Chloromethane	1.32	50	8045	5.877	ug/l 99
4) Vinyl Chloride	1.40	62	8416	5.638	ug/l 97
5) Bromomethane	1.64	94	5155	8.330	ug/l 100
6) Chloroethane	1.72	64	5654	6.356	ug/l 98
7) Trichlorofluoromethane	1.93	101	11337	5.701	ug/l 96
8) Diethyl Ether	2.18	74	4896	6.021	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.38	101	7038	5.782	ug/l 93
10) 1,1-Dichloroethene	2.37	96	6379	5.648	ug/l 97
11) Methyl Iodide	2.51	142	7276	6.088	ug/l 93
12) Methyl Acetate	2.78	43	10659	5.813	ug/l 96
13) Acrolein	2.29	56	2311	16.220	ug/l 92
14) Acrylonitrile	3.15	53	22623	32.782	ug/l 98
15) Acetone	2.45	58	6523	36.056	ug/l # 65
16) Carbon Disulfide	2.57	76	17123	5.307	ug/l 99
17) Allyl chloride	2.73	41	12832	5.973	ug/l 90
18) Methylene Chloride	2.86	84	7768	5.861	ug/l 96
19) trans-1,2-Dichloroethene	3.16	96	6927	5.687	ug/l 98
20) Diisopropyl ether	3.87	45	21711	5.593	ug/l 97
21) 1,1-Dichloroethane	3.70	63	13702	6.018	ug/l 96
22) cis-1,2-Dichloroethene	4.60	96	6073	4.690	ug/l 89
23) tert-Butyl Alcohol	3.08	59	9383	32.747	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	22706	6.019	ug/l 94
25) Chloroform	5.21	83	10614	5.177	ug/l 97
26) Cyclohexane	5.57	56	8364	4.706	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	7338	4.943	ug/l 99
30) 2-Butanone	4.71	43	23686	28.557	ug/l 96
31) 2,2-Dichloropropane	4.59	77	7571	4.723	ug/l 100
32) 1,1,1-Trichloroethane	5.50	97	8519	5.069	ug/l 98
33) Carbon Tetrachloride	5.78	117	7200m	4.882	ug/l
34) Benzene	6.14	78	22988	5.259	ug/l # 96
35) Methacrylonitrile	5.07	41	4876	5.557	ug/l 86
36) 1,2-Dichloroethane	6.20	62	8735	5.747	ug/l 97
37) Trichloroethene	7.21	130	5842	4.833	ug/l 92
38) Methylcyclohexane	7.46	83	7810	4.655	ug/l 98
39) 1,2-Dichloropropane	7.52	63	6047	5.354	ug/l 96
40) Dibromomethane	7.67	93	4006	5.401	ug/l 94

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

41) Bromodichloromethane	7.90	83	7223	5.211	ug/l	96
42) Vinyl Acetate	3.82	43	104208	32.704	ug/l	99
43) Ethyl Acetate	4.86	43	8923	5.664	ug/l #	93
44) Isopropyl Acetate	6.47	43	13017	5.391	ug/l	100
45) 1,4-Dioxane	7.76	88	2738	106.231	ug/l #	89
46) Methyl methacrylate	7.78	41	6257	5.011	ug/l	92
47) n-amyl Acetate	10.90	43	12612	6.064	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	9050	5.365	ug/l	98
49) cis-1,3-Dichloropropene	9.04	75	8663	5.671	ug/l	96
50) 1,1,2-Trichloroethane	9.22	97	7256	6.486	ug/l	99
51) Ethyl methacrylate	9.18	69	9550	5.858	ug/l	82
52) 1,3-Dichloropropane	9.37	76	11882	6.467	ug/l	99
53) Dibromochloromethane	9.59	129	6496	5.810	ug/l	98
54) 1,2-Dibromoethane	9.68	107	7362	6.346	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	24075	31.301	ug/l	99
56) Bromoform	10.86	173	4885	5.715	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	46518	23.045	ug/l	98
59) 2-Hexanone	9.50	43	38685	25.022	ug/l	95
61) Tetrachloroethene	9.34	164	7425	4.281	ug/l	94
62) Toluene	8.79	91	30812	4.984	ug/l	99
64) Chlorobenzene	10.14	112	20065	4.901	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	6736	4.639	ug/l	98
66) Ethyl Benzene	10.26	91	31380	4.593	ug/l	100
67) m/p-Xylenes	10.36	106	24265	9.128	ug/l	96
68) o-Xylene	10.70	106	11601	4.536	ug/l	98
69) Styrene	10.71	104	18479	4.346	ug/l	98
70) Isopropylbenzene	11.02	105	30922	4.560	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	11619	5.463	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	9617m	3.866	ug/l	
73) Bromobenzene	11.26	156	9089	4.821	ug/l	98
74) n-propylbenzene	11.36	91	36436	4.613	ug/l	99
75) 2-Chlorotoluene	11.42	91	23286	4.928	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	26321	4.586	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	2704	4.551	ug/l	86
78) 4-Chlorotoluene	11.51	91	26217	4.750	ug/l	98
79) tert-butylbenzene	12.07	119	26312	4.329	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	26227	4.498	ug/l	98
81) sec-Butylbenzene	11.95	105	30498	4.492	ug/l	99
82) p-Isopropyltoluene	12.07	119	26312	4.329	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	16719	4.787	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	16678	4.731	ug/l	99
85) n-Butylbenzene	12.39	91	22260	4.171	ug/l	98
86) Hexachloroethane	12.60	117	4139	4.626	ug/l	95
87) 1,2-Dichlorobenzene	12.40	146	16344	4.681	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	2168	4.906	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	10998	4.387	ug/l	100
90) Hexachlorobutadiene	13.79	225	5416	4.410	ug/l	96
91) Naphthalene	13.83	128	29827	4.126	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	11461	4.510	ug/l	99

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

