

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\
 Data File : VX002680.D
 Acq On : 18 Jun 2018 14:03
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 6/19/2018 1:05:29 PM

Quant Time: Jun 18 15:11:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 18 14:58:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	44217	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	247248	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	236900	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	101270	29.10	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.00%
60) 4-Bromofluorobenzene	11.14	95	120544	29.72	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.07%
63) Toluene-d8	8.72	98	308810	29.25	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.50%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	204062	86.93	ug/l	100
3) Chloromethane	1.32	50	220081	78.82	ug/l	99
4) Vinyl Chloride	1.41	62	251243	90.45	ug/l	99
5) Bromomethane	1.64	94	140362	90.19	ug/l	99
6) Chloroethane	1.72	64	173452	105.55	ug/l	96
7) Trichlorofluoromethane	1.92	101	452704	106.85	ug/l	99
8) Diethyl Ether	2.19	74	161661	101.38	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	260027	113.97	ug/l	98
10) 1,1-Dichloroethene	2.37	96	227721	103.52	ug/l	96
11) Methyl Iodide	2.51	142	317389	91.83	ug/l	100
12) Methyl Acetate	2.78	43	386647	108.43	ug/l	98
13) Acrolein	2.30	56	116362	383.29	ug/l	100
14) Acrylonitrile	3.16	53	717590	489.15	ug/l	98
15) Acetone	2.45	58	190130	486.16	ug/l	97
16) Carbon Disulfide	2.57	76	576965	91.85	ug/l	100
17) Allyl chloride	2.73	41	458342	100.94	ug/l	94
18) Methylene Chloride	2.86	84	257432	104.12	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	248685	106.92	ug/l	98
20) Diisopropyl ether	3.88	45	847292	97.73	ug/l	97
21) 1,1-Dichloroethane	3.70	63	432044	93.62	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	266930	96.26	ug/l #	75
23) tert-Butyl Alcohol	3.09	59	316839	416.39	ug/l	100
24) Methyl tert-Butyl Ether	3.21	73	878187	102.27	ug/l	99
25) Chloroform	5.22	83	465422	95.92	ug/l	98
26) Cyclohexane	5.58	56	389197	91.64	ug/l #	95
29) 1,1-Dichloropropene	5.81	75	338689	97.91	ug/l	99
30) 2-Butanone	4.71	43	972818	403.18	ug/l	98
31) 2,2-Dichloropropane	4.59	77	360055	118.43	ug/l	99
32) 1,1,1-Trichloroethane	5.50	97	416561	92.20	ug/l	99
33) Carbon Tetrachloride	5.79	117	377749	92.01	ug/l	95
34) Benzene	6.15	78	992636	95.03	ug/l	99
35) Methacrylonitrile	5.07	41	215729	80.74	ug/l	96
36) 1,2-Dichloroethane	6.20	62	389236	95.64	ug/l	99
37) Trichloroethene	7.22	130	295458	99.71	ug/l	92
38) Methylcyclohexane	7.46	83	412316	102.16	ug/l	97
39) 1,2-Dichloropropane	7.52	63	259723	91.96	ug/l	98
40) Dibromomethane	7.67	93	181907	96.00	ug/l	97

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

41) Bromodichloromethane	7.90	83	357292	90.89	ug/l	99
42) Vinyl Acetate	3.83	43	3627203	475.16	ug/l	100
43) Ethyl Acetate	4.87	43	379218	80.07	ug/l	97
44) Isopropyl Acetate	6.47	43	642558	81.59	ug/l	100
45) 1,4-Dioxane	7.76	88	123683	1650.83	ug/l #	86
46) Methyl methacrylate	7.78	41	330271	82.81	ug/l	98
47) n-amyl Acetate	10.90	43	639229	88.23	ug/l #	90
48) t-1,3-Dichloropropene	8.44	75	420504	95.19	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	403987	94.47	ug/l	98
50) 1,1,2-Trichloroethane	9.22	97	269636	99.12	ug/l	98
51) Ethyl methacrylate	9.19	69	428978	91.03	ug/l	95
52) 1,3-Dichloropropane	9.38	76	439731	95.83	ug/l	99
53) Dibromochloromethane	9.59	129	307905	92.65	ug/l	100
54) 1,2-Dibromoethane	9.68	107	289281	98.22	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	1002430	453.21	ug/l	99
56) Bromoform	10.86	173	255723	87.51	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	2093675	406.12	ug/l	98
59) 2-Hexanone	9.50	43	1598014	399.46	ug/l	98
61) Tetrachloroethene	9.34	164	322649	89.30	ug/l	98
62) Toluene	8.79	91	1141136	94.32	ug/l	98
64) Chlorobenzene	10.14	112	764890	97.68	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	292403	91.76	ug/l	99
66) Ethyl Benzene	10.26	91	1313340	96.59	ug/l	100
67) m/p-Xylenes	10.37	106	1028155	199.18	ug/l	99
68) o-Xylene	10.70	106	504225	97.53	ug/l	98
69) Styrene	10.72	104	860672	99.17	ug/l	99
70) Isopropylbenzene	11.02	105	1383318	99.95	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	416837	96.09	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	356306m	87.21	ug/l	
73) Bromobenzene	11.26	156	385966	103.83	ug/l	93
74) n-propylbenzene	11.37	91	1621156	104.94	ug/l	99
75) 2-Chlorotoluene	11.43	91	943744	99.05	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	1197656	101.78	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	128655	86.91	ug/l	94
78) 4-Chlorotoluene	11.52	91	1125428	103.86	ug/l	98
79) tert-butylbenzene	12.07	119	1322545	107.19	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	1216524	102.26	ug/l	99
81) sec-Butylbenzene	11.95	105	1454980	105.49	ug/l	100
82) p-Isopropyltoluene	12.07	119	1322545	107.19	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	716222	108.73	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	724543	110.51	ug/l	99
85) n-Butylbenzene	12.39	91	1188936	114.90	ug/l	99
86) Hexachloroethane	12.60	117	215715	87.86	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	718698	105.93	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	101658	80.46	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	555622	115.31	ug/l	100
90) Hexachlorobutadiene	13.79	225	288617	112.61	ug/l	99
91) Naphthalene	13.84	128	1495840	98.39	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	551594	109.61	ug/l	99

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

