

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\
 Data File : VX002679.D
 Acq On : 18 Jun 2018 13:36
 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
 6/19/2018 1:05:29 PM

Quant Time: Jun 18 15:10:04 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	44732	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	244694	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	231643	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	100578	28.57	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.23%
60) 4-Bromofluorobenzene	11.14	95	114504	28.88	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.27%
63) Toluene-d8	8.72	98	304714	29.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.37%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	101144	42.59	ug/l	100
3) Chloromethane	1.32	50	111356	39.42	ug/l	99
4) Vinyl Chloride	1.41	62	124234	44.21	ug/l	96
5) Bromomethane	1.64	94	70204	44.59	ug/l	100
6) Chloroethane	1.72	64	84832	51.03	ug/l	96
7) Trichlorofluoromethane	1.93	101	223542	52.16	ug/l	99
8) Diethyl Ether	2.19	74	79532	49.30	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	127594	55.28	ug/l	98
10) 1,1-Dichloroethene	2.37	96	112079	50.36	ug/l	97
11) Methyl Iodide	2.51	142	133497	38.18	ug/l	99
12) Methyl Acetate	2.78	43	190831	52.90	ug/l	100
13) Acrolein	2.30	56	57350	186.73	ug/l	100
14) Acrylonitrile	3.15	53	349263	235.34	ug/l	99
15) Acetone	2.45	58	96264	243.31	ug/l	94
16) Carbon Disulfide	2.57	76	277659	43.69	ug/l	99
17) Allyl chloride	2.73	41	225796	49.16	ug/l	94
18) Methylene Chloride	2.86	84	126005	50.37	ug/l	99
19) trans-1,2-Dichloroethene	3.17	96	121768	51.75	ug/l	98
20) Diisopropyl ether	3.88	45	410208	46.77	ug/l	99
21) 1,1-Dichloroethane	3.70	63	214722	45.99	ug/l	100
22) cis-1,2-Dichloroethene	4.60	96	129763	46.25	ug/l #	76
23) tert-Butyl Alcohol	3.08	59	152702	198.37	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	422232	48.61	ug/l	100
25) Chloroform	5.22	83	225961	46.03	ug/l	99
26) Cyclohexane	5.58	56	189869	44.19	ug/l #	93
29) 1,1-Dichloropropene	5.80	75	163177	47.66	ug/l	98
30) 2-Butanone	4.71	43	475303	199.04	ug/l	98
31) 2,2-Dichloropropane	4.59	77	176970	58.82	ug/l	99
32) 1,1,1-Trichloroethane	5.50	97	199468	44.61	ug/l	99
33) Carbon Tetrachloride	5.79	117	178479	43.93	ug/l	93
34) Benzene	6.15	78	483761	46.80	ug/l	99
35) Methacrylonitrile	5.07	41	102974	38.94	ug/l	94
36) 1,2-Dichloroethane	6.20	62	189957	47.16	ug/l	99
37) Trichloroethene	7.22	130	141520	48.26	ug/l	94
38) Methylcyclohexane	7.46	83	199816	50.02	ug/l	97
39) 1,2-Dichloropropane	7.52	63	126464	45.24	ug/l	96
40) Dibromomethane	7.67	93	88689	47.29	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	167246	42.99	ug/l	99
42) Vinyl Acetate	3.83	43	1751259	231.81	ug/l	100
43) Ethyl Acetate	4.87	43	184525	39.37	ug/l	98
44) Isopropyl Acetate	6.47	43	305415	39.18	ug/l	100
45) 1,4-Dioxane	7.76	88	58162	784.40	ug/l #	87
46) Methyl methacrylate	7.78	41	157086	39.80	ug/l	98
47) n-amyl Acetate	10.90	43	289789	40.41	ug/l #	90
48) t-1,3-Dichloropropene	8.44	75	196592	44.97	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	185778	43.89	ug/l	98
50) 1,1,2-Trichloroethane	9.22	97	129350	48.05	ug/l	98
51) Ethyl methacrylate	9.18	69	199576	42.79	ug/l	96
52) 1,3-Dichloropropane	9.38	76	214190	47.16	ug/l	100
53) Dibromochloromethane	9.59	129	140577	42.74	ug/l	100
54) 1,2-Dibromoethane	9.68	107	138050	47.36	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	481322	219.88	ug/l	99
56) Bromoform	10.86	173	110574	38.23	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	1002460	198.86	ug/l	98
59) 2-Hexanone	9.50	43	766165	195.87	ug/l	99
61) Tetrachloroethene	9.34	164	157372	44.54	ug/l	98
62) Toluene	8.79	91	553822	46.82	ug/l	98
64) Chlorobenzene	10.14	112	366014	47.80	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	137245	44.05	ug/l	99
66) Ethyl Benzene	10.26	91	631363	47.49	ug/l	100
67) m/p-Xylenes	10.36	106	491227	97.32	ug/l	98
68) o-Xylene	10.70	106	238636	47.21	ug/l	97
69) Styrene	10.71	104	401608	47.32	ug/l	99
70) Isopropylbenzene	11.02	105	658986	48.70	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	193868	45.71	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	173132m	43.34	ug/l	
73) Bromobenzene	11.26	156	182837	50.30	ug/l	92
74) n-propylbenzene	11.37	91	759886	50.30	ug/l	99
75) 2-Chlorotoluene	11.43	91	441351	47.37	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	561035	48.76	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	55931	38.64	ug/l	91
78) 4-Chlorotoluene	11.51	91	523374	49.40	ug/l	98
79) tert-butylbenzene	12.07	119	620534	51.43	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	575377	49.46	ug/l	98
81) sec-Butylbenzene	11.95	105	682703	50.62	ug/l	99
82) p-Isopropyltoluene	12.07	119	620534	51.43	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	333850	51.83	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	339619	52.98	ug/l	99
85) n-Butylbenzene	12.39	91	549970	54.35	ug/l	99
86) Hexachloroethane	12.60	117	94654	39.43	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	336917	50.79	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	45397	36.75	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	256434	54.43	ug/l	99
90) Hexachlorobutadiene	13.79	225	134899	53.83	ug/l	99
91) Naphthalene	13.84	128	700907	47.15	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	258755	52.59	ug/l	99

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

