

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051118\
 Data File : VX001625.D
 Acq On : 11 May 2018 02:35
 Operator : JC/MD
 Sample : VX0510WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0510WBS01

Manual Integrations
 APPROVED

apatel
 5/14/2018 3:57:46 PM

Quant Time: May 11 07:34:46 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 11 07:16:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	54709	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	278831	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	251575	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	122280	30.63	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.10%
60) 4-Bromofluorobenzene	11.14	95	116119	29.17	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.23%
63) Toluene-d8	8.72	98	337248	30.06	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.20%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	58546	21.96	ug/l	96
3) Chloromethane	1.32	50	65721	22.27	ug/l	98
4) Vinyl Chloride	1.40	62	67864	22.02	ug/l	99
5) Bromomethane	1.64	94	47474	31.16	ug/l	100
6) Chloroethane	1.73	64	45856	22.35	ug/l	94
7) Trichlorofluoromethane	1.93	101	96532	21.80	ug/l	99
8) Diethyl Ether	2.19	74	42285	22.03	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	54611	22.20	ug/l	99
10) 1,1-Dichloroethene	2.37	96	54079	21.36	ug/l	98
11) Methyl Iodide	2.51	142	64012	17.40	ug/l	97
12) Methyl Acetate	2.78	43	94251	21.89	ug/l	99
13) Acrolein	2.30	56	47698	97.71	ug/l	99
14) Acrylonitrile	3.15	53	188760	109.76	ug/l	100
15) Acetone	2.45	58	51263	110.95	ug/l	96
16) Carbon Disulfide	2.57	76	132458	21.12	ug/l	99
17) Allyl chloride	2.73	41	102498	21.22	ug/l	98
18) Methylene Chloride	2.86	84	66095	22.12	ug/l	97
19) trans-1,2-Dichloroethene	3.17	96	59201	21.54	ug/l	96
20) Diisopropyl ether	3.88	45	197528	21.89	ug/l	98
21) 1,1-Dichloroethane	3.70	63	113437	21.86	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	66460	21.45	ug/l	99
23) tert-Butyl Alcohol	3.08	59	86242	112.71	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	202856	22.05	ug/l	100
25) Chloroform	5.23	83	115225	21.55	ug/l	99
26) Cyclohexane	5.58	56	81582	21.55	ug/l	# 99
29) 1,1-Dichloropropene	5.81	75	76020	21.70	ug/l	99
30) 2-Butanone	4.72	43	254364	110.04	ug/l	99
31) 2,2-Dichloropropane	4.59	77	57278	19.02	ug/l	98
32) 1,1,1-Trichloroethane	5.50	97	96828	21.73	ug/l	99
33) Carbon Tetrachloride	5.79	117	83811	21.36	ug/l	98
34) Benzene	6.15	78	245135	21.89	ug/l	99
35) Methacrylonitrile	5.07	41	54160	21.61	ug/l	98
36) 1,2-Dichloroethane	6.21	62	98420	22.21	ug/l	100
37) Trichloroethene	7.22	130	71492	21.66	ug/l	97
38) Methylcyclohexane	7.46	83	81169	21.67	ug/l	99
39) 1,2-Dichloropropane	7.53	63	62435	22.23	ug/l	100
40) Dibromomethane	7.67	93	44429	22.08	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	80904	21.37	ug/l	99
42) Vinyl Acetate	3.83	43	836857	109.76	ug/l	99
43) Ethyl Acetate	4.87	43	96505	21.90	ug/l	97
44) Isopropyl Acetate	6.48	43	144583	21.43	ug/l	99
45) 1,4-Dioxane	7.76	88	34646	437.97	ug/l	100
46) Methyl methacrylate	7.79	41	77986	21.41	ug/l	99
47) n-amyl Acetate	10.91	43	120659	20.94	ug/l	100
48) t-1,3-Dichloropropene	8.44	75	86430	20.69	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	75558	20.47	ug/l	99
50) 1,1,2-Trichloroethane	9.22	97	64842	21.76	ug/l	96
51) Ethyl methacrylate	9.19	69	92522	21.54	ug/l	99
52) 1,3-Dichloropropane	9.38	76	107268	21.85	ug/l	100
53) Dibromochloromethane	9.59	129	64792	20.94	ug/l	98
54) 1,2-Dibromoethane	9.68	107	68027	21.65	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	245864	107.66	ug/l	100
56) Bromoform	10.87	173	51443	20.34	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	505950	111.81	ug/l	100
59) 2-Hexanone	9.51	43	378752	111.72	ug/l	100
61) Tetrachloroethene	9.34	164	80713	22.05	ug/l	100
62) Toluene	8.79	91	263134	21.74	ug/l	100
64) Chlorobenzene	10.15	112	172772	21.73	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	64741	21.55	ug/l	100
66) Ethyl Benzene	10.26	91	272869	21.73	ug/l	99
67) m/p-Xylenes	10.37	106	216741	43.22	ug/l	99
68) o-Xylene	10.71	106	108475	21.86	ug/l	99
69) Styrene	10.72	104	176030	21.50	ug/l	99
70) Isopropylbenzene	11.02	105	280460	21.94	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	92839	21.66	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	91402m	22.00	ug/l	
73) Bromobenzene	11.26	156	83918	21.67	ug/l	99
74) n-propylbenzene	11.37	91	308332	21.91	ug/l	99
75) 2-Chlorotoluene	11.43	91	193122	21.88	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	234357	21.79	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	20871	19.54	ug/l	96
78) 4-Chlorotoluene	11.52	91	214993	21.43	ug/l	99
79) tert-butylbenzene	12.07	119	248941	21.87	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	241074	21.95	ug/l	99
81) sec-Butylbenzene	11.95	105	273351	21.94	ug/l	100
82) p-Isopropyltoluene	12.07	119	248941	21.87	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	144190	21.35	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	143835	21.18	ug/l	100
85) n-Butylbenzene	12.40	91	192241	21.24	ug/l	99
86) Hexachloroethane	12.60	117	36616	20.28	ug/l	97
87) 1,2-Dichlorobenzene	12.40	146	150241	21.45	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	20685	20.71	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	102354	20.57	ug/l	100
90) Hexachlorobutadiene	13.79	225	54647	21.46	ug/l	98
91) Naphthalene	13.84	128	317436	21.30	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	111392	21.17	ug/l	99

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

