

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051418\
 Data File : VX001708.D
 Acq On : 14 May 2018 12:47
 Operator : JC/MD
 Sample : VX0514WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0514WBS01

Manual Integrations
 APPROVED

apatel
 5/16/2018 6:19:00 PM

Quant Time: May 16 03:22:14 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	64072	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	333335	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	305294	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	133362	28.53	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.10%
60) 4-Bromofluorobenzene	11.14	95	144692	29.95	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.83%
63) Toluene-d8	8.72	98	416618	30.60	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.00%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	75875	24.30	ug/l	100
3) Chloromethane	1.33	50	73798	21.35	ug/l	99
4) Vinyl Chloride	1.41	62	78295	21.69	ug/l	100
5) Bromomethane	1.65	94	39837	22.33	ug/l	93
6) Chloroethane	1.73	64	49915	20.77	ug/l	93
7) Trichlorofluoromethane	1.93	101	119822	23.11	ug/l	99
8) Diethyl Ether	2.19	74	45347	20.17	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	73009	25.34	ug/l	98
10) 1,1-Dichloroethene	2.38	96	65161	21.97	ug/l	97
11) Methyl Iodide	2.51	142	67449	15.65	ug/l	97
12) Methyl Acetate	2.78	43	92106	18.27	ug/l	97
13) Acrolein	2.30	56	48102	84.14	ug/l	97
14) Acrylonitrile	3.15	53	184557	91.63	ug/l	99
15) Acetone	2.45	58	55004	101.65	ug/l	97
16) Carbon Disulfide	2.57	76	160338	21.83	ug/l	99
17) Allyl chloride	2.73	41	119544	21.13	ug/l	97
18) Methylene Chloride	2.86	84	72180	20.62	ug/l	97
19) trans-1,2-Dichloroethene	3.17	96	70471	21.89	ug/l	97
20) Diisopropyl ether	3.87	45	226132	21.40	ug/l	98
21) 1,1-Dichloroethane	3.70	63	128622	21.16	ug/l	100
22) cis-1,2-Dichloroethene	4.60	96	77685	21.41	ug/l	98
23) tert-Butyl Alcohol	3.06	59	80410m	89.73	ug/l	
24) Methyl tert-Butyl Ether	3.21	73	216554	20.10	ug/l	99
25) Chloroform	5.22	83	133553	21.33	ug/l	99
26) Cyclohexane	5.58	56	111354	25.11	ug/l #	99
29) 1,1-Dichloropropene	5.81	75	98844	23.60	ug/l	98
30) 2-Butanone	4.71	43	255978	92.63	ug/l	99
31) 2,2-Dichloropropane	4.59	77	104518	29.03	ug/l	97
32) 1,1,1-Trichloroethane	5.50	97	117507	22.06	ug/l	99
33) Carbon Tetrachloride	5.79	117	105693	22.53	ug/l	96
34) Benzene	6.15	78	288886	21.57	ug/l #	95
35) Methacrylonitrile	5.07	41	55332	18.47	ug/l	94
36) 1,2-Dichloroethane	6.20	62	107272	20.25	ug/l	99
37) Trichloroethene	7.22	130	91030	23.07	ug/l	98
38) Methylcyclohexane	7.46	83	119683	26.73	ug/l	98
39) 1,2-Dichloropropane	7.52	63	70286	20.94	ug/l	100
40) Dibromomethane	7.67	93	49555	20.60	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	94255	20.83	ug/l	99
42) Vinyl Acetate	3.83	43	948296	104.04	ug/l	100
43) Ethyl Acetate	4.86	43	96762	18.37	ug/l	99
44) Isopropyl Acetate	6.47	43	149085	18.49	ug/l	98
45) 1,4-Dioxane	7.76	88	34573	365.58	ug/l	95
46) Methyl methacrylate	7.78	41	80868	18.57	ug/l	97
47) n-amyl Acetate	10.90	43	124307	18.05	ug/l	98
48) t-1,3-Dichloropropene	8.44	75	110825	22.19	ug/l	99
49) cis-1,3-Dichloropropene	9.04	75	97608	22.12	ug/l	99
50) 1,1,2-Trichloroethane	9.22	97	75913	21.31	ug/l	95
51) Ethyl methacrylate	9.18	69	99814	19.44	ug/l	100
52) 1,3-Dichloropropane	9.38	76	124765	21.26	ug/l	99
53) Dibromochloromethane	9.59	129	78737	21.29	ug/l	100
54) 1,2-Dibromoethane	9.68	107	79532	21.17	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	265796	97.36	ug/l	99
56) Bromoform	10.86	173	58349	19.29	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	503287	91.65	ug/l	100
59) 2-Hexanone	9.50	43	381038	92.62	ug/l	99
61) Tetrachloroethene	9.34	164	110457	24.87	ug/l	97
62) Toluene	8.79	91	324773	22.12	ug/l	100
64) Chlorobenzene	10.14	112	212679	22.04	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	78437	21.51	ug/l	99
66) Ethyl Benzene	10.26	91	344219	22.59	ug/l	98
67) m/p-Xylenes	10.37	106	292750	48.11	ug/l	97
68) o-Xylene	10.70	106	130119	21.61	ug/l	99
69) Styrene	10.72	104	218831	22.03	ug/l	98
70) Isopropylbenzene	11.02	105	357473	23.05	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	96415	18.53	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	97645m	19.37	ug/l	
73) Bromobenzene	11.26	156	100866	21.46	ug/l	99
74) n-propylbenzene	11.37	91	412238	24.14	ug/l	99
75) 2-Chlorotoluene	11.43	91	244398	22.82	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	301446	23.09	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	25958	20.02	ug/l	93
78) 4-Chlorotoluene	11.52	91	281808	23.14	ug/l	100
79) tert-butylbenzene	12.07	119	341663	24.74	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	309075	23.19	ug/l	99
81) sec-Butylbenzene	11.95	105	366996	24.28	ug/l	99
82) p-Isopropyltoluene	12.07	119	341663	24.74	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	187242	22.84	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	189022	22.94	ug/l	99
85) n-Butylbenzene	12.40	91	285433	25.99	ug/l	99
86) Hexachloroethane	12.60	117	48640	22.20	ug/l	97
87) 1,2-Dichlorobenzene	12.40	146	185309	21.81	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	20485	16.90	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	142749	23.64	ug/l	100
90) Hexachlorobutadiene	13.79	225	79362	25.69	ug/l	98
91) Naphthalene	13.84	128	367873	20.34	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	144919	22.69	ug/l	99

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

