

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052518\
 Data File : VX001958.D
 Acq On : 24 May 2018 23:25
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 5/29/2018 4:39:11 PM

Quant Time: May 25 02:08:39 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 01:52:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	68226	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	380625	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	347147	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	159497	31.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.97%
60) 4-Bromofluorobenzene	11.14	95	177723	31.98	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	106.60%
63) Toluene-d8	8.72	98	465746	30.15	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	175094	54.128	ug/l 99
3) Chloromethane	1.32	50	211732	57.553	ug/l 99
4) Vinyl Chloride	1.40	62	209140	54.985	ug/l 100
5) Bromomethane	1.64	94	113173	60.469	ug/l 98
6) Chloroethane	1.72	64	125231	50.497	ug/l 96
7) Trichlorofluoromethane	1.93	101	323243	58.115	ug/l 98
8) Diethyl Ether	2.19	74	120686	51.441	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	172672	56.546	ug/l 98
10) 1,1-Dichloroethene	2.37	96	167003	53.382	ug/l 97
11) Methyl Iodide	2.51	142	279642	60.444	ug/l 98
12) Methyl Acetate	2.78	43	275349	52.404	ug/l 99
13) Acrolein	2.30	56	110412	192.509	ug/l 99
14) Acrylonitrile	3.16	53	562463	265.530	ug/l 99
15) Acetone	2.45	58	149381	262.661	ug/l 99
16) Carbon Disulfide	2.57	76	474826	59.152	ug/l 99
17) Allyl chloride	2.73	41	351909	57.733	ug/l 99
18) Methylene Chloride	2.86	84	189316	51.748	ug/l 98
19) trans-1,2-Dichloroethene	3.17	96	178110	52.735	ug/l 97
20) Diisopropyl ether	3.88	45	661571	57.769	ug/l 97
21) 1,1-Dichloroethane	3.70	63	352164	54.605	ug/l 100
22) cis-1,2-Dichloroethene	4.60	96	212213	55.096	ug/l 85
23) tert-Butyl Alcohol	3.09	59	292072m	297.997	ug/l
24) Methyl tert-Butyl Ether	3.21	73	659935	57.100	ug/l 99
25) Chloroform	5.23	83	371669	55.709	ug/l 99
26) Cyclohexane	5.58	56	325922	65.735	ug/l # 100
29) 1,1-Dichloropropene	5.81	75	269555	56.449	ug/l 100
30) 2-Butanone	4.72	43	935227	291.843	ug/l 99
31) 2,2-Dichloropropane	4.59	77	231638	55.597	ug/l 100
32) 1,1,1-Trichloroethane	5.50	97	348126	57.038	ug/l 99
33) Carbon Tetrachloride	5.79	117	315858	58.064	ug/l 97
34) Benzene	6.15	78	810229	53.552	ug/l 98
35) Methacrylonitrile	5.07	41	208363	59.838	ug/l 98
36) 1,2-Dichloroethane	6.21	62	317939	53.348	ug/l 100
37) Trichloroethene	7.22	130	230436	52.101	ug/l 96
38) Methylcyclohexane	7.46	83	315169	60.560	ug/l 99
39) 1,2-Dichloropropane	7.52	63	216417	56.028	ug/l 99
40) Dibromomethane	7.67	93	145774	53.512	ug/l 98

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

41) Bromodichloromethane	7.91	83	304779	58.017	ug/l	96
42) Vinyl Acetate	3.83	43	2973796	282.062	ug/l	100
43) Ethyl Acetate	4.88	43	372101	60.389	ug/l	97
44) Isopropyl Acetate	6.48	43	616000	63.743	ug/l	100
45) 1,4-Dioxane	7.77	88	117146	1088.742	ug/l #	92
46) Methyl methacrylate	7.79	41	310564	60.653	ug/l	99
47) n-amyl Acetate	10.90	43	571099	67.429	ug/l #	91
48) t-1,3-Dichloropropene	8.45	75	343515	58.896	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	337302	64.051	ug/l	99
50) 1,1,2-Trichloroethane	9.22	97	212741	53.542	ug/l	98
51) Ethyl methacrylate	9.19	69	368069	60.775	ug/l	97
52) 1,3-Dichloropropane	9.38	76	356345	53.845	ug/l	100
53) Dibromochloromethane	9.59	129	259730	60.214	ug/l	99
54) 1,2-Dibromoethane	9.68	107	229886	54.500	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	858797	273.180	ug/l	100
56) Bromoform	10.87	173	227645	63.311	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	1910113	297.658	ug/l	100
59) 2-Hexanone	9.51	43	1487122	307.541	ug/l	100
61) Tetrachloroethene	9.34	164	268239	53.699	ug/l	98
62) Toluene	8.79	91	891367	53.827	ug/l	99
64) Chlorobenzene	10.15	112	579525	53.644	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	232902	55.844	ug/l	99
66) Ethyl Benzene	10.26	91	1007027	57.688	ug/l	99
67) m/p-Xylenes	10.37	106	763317	111.147	ug/l	99
68) o-Xylene	10.71	106	383782	56.084	ug/l	99
69) Styrene	10.72	104	643221	57.001	ug/l	99
70) Isopropylbenzene	11.02	105	1029227	58.210	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	314281	53.630	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	283864m	49.083	ug/l	
73) Bromobenzene	11.26	156	275145	52.569	ug/l	99
74) n-propylbenzene	11.37	91	1161633	59.593	ug/l	99
75) 2-Chlorotoluene	11.43	91	706805	58.011	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	875437	58.723	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	107498	67.112	ug/l	97
78) 4-Chlorotoluene	11.52	91	811661	58.713	ug/l	100
79) tert-butylbenzene	12.07	119	928125	59.171	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	887035	58.469	ug/l	99
81) sec-Butylbenzene	11.95	105	1037235	59.892	ug/l	100
82) p-Isopropyltoluene	12.07	119	928125	59.171	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	491475	53.922	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	488577	53.450	ug/l	100
85) n-Butylbenzene	12.40	91	782103	61.806	ug/l	99
86) Hexachloroethane	12.60	117	182666	68.805	ug/l	98
87) 1,2-Dichlorobenzene	12.40	146	502623	53.275	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	94706	65.667	ug/l	100
89) 1,2,4-Trichlorobenzene	13.65	180	364075	54.194	ug/l	100
90) Hexachlorobutadiene	13.79	225	191888	55.715	ug/l	99
91) Naphthalene	13.84	128	1139306	55.660	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	375350	52.878	ug/l	99

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

