

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052518\
 Data File : VX001964.D
 Acq On : 25 May 2018 02:33
 Operator : JC/MD
 Sample : VX0525WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0525WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/29/2018 4:39:19 PM

Quant Time: May 25 03:23:59 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 02:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	66053	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	358773	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	326883	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	155233	29.87	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.57%
60) 4-Bromofluorobenzene	11.14	95	162514	29.04	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.80%
63) Toluene-d8	8.72	98	433096	29.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	68164	19.438	ug/l 100
3) Chloromethane	1.32	50	83083	19.918	ug/l 98
4) Vinyl Chloride	1.41	62	81862	19.728	ug/l 100
5) Bromomethane	1.64	94	54131	23.284	ug/l 98
6) Chloroethane	1.73	64	51099	20.815	ug/l 99
7) Trichlorofluoromethane	1.93	101	128416	20.290	ug/l 98
8) Diethyl Ether	2.20	74	50053	21.013	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	69345	20.346	ug/l 99
10) 1,1-Dichloroethene	2.38	96	67299	20.479	ug/l 93
11) Methyl Iodide	2.51	142	92006	17.821	ug/l 98
12) Methyl Acetate	2.79	43	115885	21.755	ug/l 96
13) Acrolein	2.30	56	44157	97.366	ug/l 98
14) Acrylonitrile	3.16	53	235526	107.473	ug/l 100
15) Acetone	2.45	58	63635	108.923	ug/l 100
16) Carbon Disulfide	2.57	76	185526	19.770	ug/l 99
17) Allyl chloride	2.73	41	137485	20.269	ug/l 99
18) Methylene Chloride	2.86	84	76523	20.718	ug/l 97
19) trans-1,2-Dichloroethene	3.17	96	70143	20.187	ug/l 98
20) Diisopropyl ether	3.89	45	288465	22.274	ug/l 97
21) 1,1-Dichloroethane	3.70	63	141565	20.536	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	84082	20.297	ug/l 90
23) tert-Butyl Alcohol	3.09	59	122496	107.767	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	271471	21.163	ug/l 100
25) Chloroform	5.23	83	147782	20.389	ug/l 100
26) Cyclohexane	5.58	56	128177	20.203	ug/l # 99
29) 1,1-Dichloropropene	5.81	75	102553	20.430	ug/l 99
30) 2-Butanone	4.72	43	388109	110.849	ug/l 100
31) 2,2-Dichloropropane	4.59	77	75364	17.084	ug/l 100
32) 1,1,1-Trichloroethane	5.50	97	136022	20.748	ug/l 99
33) Carbon Tetrachloride	5.79	117	120136	20.166	ug/l 94
34) Benzene	6.15	78	316381	20.873	ug/l 97
35) Methacrylonitrile	5.08	41	84170	21.710	ug/l 96
36) 1,2-Dichloroethane	6.21	62	125853	21.311	ug/l 99
37) Trichloroethene	7.22	130	88836	20.661	ug/l 95
38) Methylcyclohexane	7.47	83	119057	20.329	ug/l 99
39) 1,2-Dichloropropane	7.52	63	86607	21.132	ug/l 94
40) Dibromomethane	7.67	93	59340	21.582	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	119355	20.924	ug/l	98
42) Vinyl Acetate	3.83	43	1230289	111.068	ug/l	100
43) Ethyl Acetate	4.88	43	149715	21.785	ug/l	97
44) Isopropyl Acetate	6.48	43	249796	21.858	ug/l	99
45) 1,4-Dioxane	7.76	88	47920	440.779	ug/l #	92
46) Methyl methacrylate	7.79	41	124643	21.538	ug/l	99
47) n-amyl Acetate	10.90	43	217727	20.709	ug/l #	91
48) t-1,3-Dichloropropene	8.45	75	129250	20.163	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	124927	20.132	ug/l	99
50) 1,1,2-Trichloroethane	9.22	97	84857	21.497	ug/l	99
51) Ethyl methacrylate	9.19	69	144821	21.179	ug/l	99
52) 1,3-Dichloropropane	9.38	76	141784	21.293	ug/l	99
53) Dibromochloromethane	9.59	129	99812	20.698	ug/l	99
54) 1,2-Dibromoethane	9.68	107	89794	21.011	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	329883	102.782	ug/l	99
56) Bromoform	10.86	173	85039	20.054	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	781681	109.886	ug/l	100
59) 2-Hexanone	9.51	43	602103	109.078	ug/l	99
61) Tetrachloroethene	9.34	164	102155	20.489	ug/l	99
62) Toluene	8.79	91	340885	20.420	ug/l	98
64) Chlorobenzene	10.15	112	221829	20.531	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	90560	20.596	ug/l	99
66) Ethyl Benzene	10.26	91	383113	20.419	ug/l	99
67) m/p-Xylenes	10.37	106	290203	40.744	ug/l	99
68) o-Xylene	10.70	106	147356	20.656	ug/l	98
69) Styrene	10.72	104	239570	20.005	ug/l	99
70) Isopropylbenzene	11.02	105	388667	20.353	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	124488	20.798	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	131320m	23.293	ug/l	
73) Bromobenzene	11.26	156	104184	20.311	ug/l	98
74) n-propylbenzene	11.37	91	428951	20.122	ug/l	99
75) 2-Chlorotoluene	11.43	91	263272	20.026	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	325108	20.023	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	38828	19.010	ug/l	98
78) 4-Chlorotoluene	11.52	91	298901	19.992	ug/l	100
79) tert-butylbenzene	12.07	119	337635	19.831	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	328727	20.026	ug/l	100
81) sec-Butylbenzene	11.95	105	381749	20.058	ug/l	100
82) p-Isopropyltoluene	12.07	119	337635	19.831	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	177242	19.501	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	179183	19.806	ug/l	99
85) n-Butylbenzene	12.40	91	274160	19.201	ug/l	100
86) Hexachloroethane	12.60	117	65622	19.369	ug/l	98
87) 1,2-Dichlorobenzene	12.40	146	186292	19.900	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	36144	20.733	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	128531	19.332	ug/l	99
90) Hexachlorobutadiene	13.79	225	66774	18.881	ug/l	98
91) Naphthalene	13.84	128	429990	20.496	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	138230	19.907	ug/l	99

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

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