

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX050218\
 Data File : VX001314.D
 Acq On : 02 May 2018 12:54
 Operator : JC/MD
 Sample : VX0502WBSD03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0502WBSD03

Manual Integrations
 APPROVED

MMDadoda
 5/3/2018 12:21:17 PM

Quant Time: May 03 05:15:00 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 01 09:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	32943	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	173921	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	162497	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	69520	29.26	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.53%
60) 4-Bromofluorobenzene	11.14	95	76949	28.26	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.20%
63) Toluene-d8	8.72	98	213310	30.61	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.03%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	40372	18.69	ug/l	99
3) Chloromethane	1.32	50	37643	18.67	ug/l	99
4) Vinyl Chloride	1.40	62	42254	19.98	ug/l	98
5) Bromomethane	1.64	94	30239	18.93	ug/l	99
6) Chloroethane	1.73	64	26625	20.58	ug/l	96
7) Trichlorofluoromethane	1.93	101	73113	20.82	ug/l	97
8) Diethyl Ether	2.19	74	26823	22.00	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.39	101	40527	20.35	ug/l	93
10) 1,1-Dichloroethene	2.37	96	36466	20.21	ug/l	87
11) Methyl Iodide	2.51	142	57501	26.20	ug/l	95
12) Methyl Acetate	2.78	43	61601	25.97	ug/l	97
13) Acrolein	2.30	56	21342	75.43	ug/l	98
14) Acrylonitrile	3.15	53	114536	121.30	ug/l	99
15) Acetone	2.45	58	33340	113.48	ug/l	93
16) Carbon Disulfide	2.57	76	84001	17.50	ug/l	98
17) Allyl chloride	2.73	41	66764	20.85	ug/l	94
18) Methylene Chloride	2.86	84	41768	21.24	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	38989	20.04	ug/l	94
20) Diisopropyl ether	3.88	45	118172	18.75	ug/l #	98
21) 1,1-Dichloroethane	3.70	63	72998	21.56	ug/l	100
22) cis-1,2-Dichloroethene	4.60	96	41930	19.30	ug/l	97
23) tert-Butyl Alcohol	3.09	59	54718	141.80	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	132909	21.48	ug/l	95
25) Chloroform	5.23	83	70685	19.17	ug/l	97
26) Cyclohexane	5.57	56	54208	17.60	ug/l #	97
29) 1,1-Dichloropropene	5.81	75	49488	19.21	ug/l	100
30) 2-Butanone	4.72	43	152920	115.81	ug/l	98
31) 2,2-Dichloropropane	4.59	77	49576	17.62	ug/l	97
32) 1,1,1-Trichloroethane	5.51	97	60142	19.29	ug/l	98
33) Carbon Tetrachloride	5.79	117	52036	18.52	ug/l	97
34) Benzene	6.15	78	150680	19.73	ug/l	93
35) Methacrylonitrile	5.07	41	32865	22.43	ug/l	92
36) 1,2-Dichloroethane	6.21	62	60046	20.49	ug/l	100
37) Trichloroethene	7.22	130	45917	19.83	ug/l	92
38) Methylcyclohexane	7.47	83	56238	18.55	ug/l	96
39) 1,2-Dichloropropane	7.52	63	39037	20.16	ug/l	96
40) Dibromomethane	7.67	93	28427	20.87	ug/l	86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	48484	18.84	ug/l	97
42) Vinyl Acetate	3.83	43	512620	98.69	ug/l	98
43) Ethyl Acetate	4.87	43	58363	22.95	ug/l	99
44) Isopropyl Acetate	6.48	43	89306	20.64	ug/l	98
45) 1,4-Dioxane	7.76	88	20998	533.92	ug/l	99
46) Methyl methacrylate	7.79	41	47343	21.03	ug/l	91
47) n-amyl Acetate	10.90	43	78836	18.99	ug/l	98
48) t-1,3-Dichloropropene	8.45	75	56830	18.76	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	51004	17.58	ug/l	91
50) 1,1,2-Trichloroethane	9.22	97	41900	20.71	ug/l	96
51) Ethyl methacrylate	9.19	69	59028	20.48	ug/l	97
52) 1,3-Dichloropropane	9.38	76	67369	20.60	ug/l	100
53) Dibromochloromethane	9.59	129	42131	18.87	ug/l	98
54) 1,2-Dibromoethane	9.68	107	44061	20.35	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	147876	104.72	ug/l	99
56) Bromoform	10.87	173	33037	18.08	ug/l #	98
58) 4-Methyl-2-Pentanone	8.66	43	311159	115.37	ug/l	98
59) 2-Hexanone	9.51	43	235911	112.27	ug/l	97
61) Tetrachloroethene	9.34	164	57018	22.90	ug/l	88
62) Toluene	8.79	91	171770	19.67	ug/l	99
64) Chlorobenzene	10.14	112	115323	19.57	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.23	131	42960	19.97	ug/l	96
66) Ethyl Benzene	10.26	91	186664	19.15	ug/l	98
67) m/p-Xylenes	10.37	106	149331	38.57	ug/l	97
68) o-Xylene	10.71	106	72489	19.37	ug/l	98
69) Styrene	10.72	104	118174	18.97	ug/l	100
70) Isopropylbenzene	11.02	105	194494	19.14	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	60491	20.29	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	58277m	21.84	ug/l	
73) Bromobenzene	11.26	156	56677	19.19	ug/l	95
74) n-propylbenzene	11.37	91	215221	18.75	ug/l	98
75) 2-Chlorotoluene	11.43	91	131959	19.05	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	166033	19.17	ug/l	68
77) t-1,4-Dichloro-2-butene	11.08	75	13410	16.89	ug/l	79
78) 4-Chlorotoluene	11.52	91	152398	18.44	ug/l	98
79) tert-butylbenzene	12.07	119	176116	19.01	ug/l	95
80) 1,2,4-Trimethylbenzene	11.81	105	170054	19.29	ug/l	99
81) sec-Butylbenzene	11.95	105	192890	19.18	ug/l	98
82) p-Isopropyltoluene	12.07	119	176116	19.01	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	100622	18.68	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	102239	18.62	ug/l	98
85) n-Butylbenzene	12.40	91	144189	17.99	ug/l	99
86) Hexachloroethane	12.60	117	24666	17.42	ug/l	72
87) 1,2-Dichlorobenzene	12.40	146	104377	19.49	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	12686	20.36	ug/l	92
89) 1,2,4-Trichlorobenzene	13.65	180	74673	18.40	ug/l	98
90) Hexachlorobutadiene	13.79	225	39694	21.07	ug/l	98
91) Naphthalene	13.84	128	220405	20.94	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	78862	19.69	ug/l	96

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

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