

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX050418\
 Data File : VX001390.D
 Acq On : 04 May 2018 11:13
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Quant Time: May 04 11:33:04 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	33286	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	178859	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	170636	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	70358	29.30	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.67%
60) 4-Bromofluorobenzene	11.14	95	82478	28.85	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.17%
63) Toluene-d8	8.72	98	219006	29.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	43259	19.822	ug/l 98
3) Chloromethane	1.32	50	40246	19.759	ug/l 96
4) Vinyl Chloride	1.40	62	43561	20.389	ug/l 99
5) Bromomethane	1.64	94	31368	19.439	ug/l 99
6) Chloroethane	1.73	64	27661	21.161	ug/l 97
7) Trichlorofluoromethane	1.93	101	78444	22.103	ug/l 97
8) Diethyl Ether	2.19	74	26855	21.795	ug/l 89
9) 1,1,2-Trichlorotrifluoroet	2.39	101	46375	23.043	ug/l 95
10) 1,1-Dichloroethene	2.37	96	38053	20.871	ug/l 87
11) Methyl Iodide	2.51	142	60945	27.482	ug/l 96
12) Methyl Acetate	2.78	43	65534	27.341	ug/l 98
13) Acrolein	2.30	56	14538	50.853	ug/l 94
14) Acrylonitrile	3.15	53	119303	125.049	ug/l 99
15) Acetone	2.45	58	34491	116.189	ug/l 92
16) Carbon Disulfide	2.57	76	82593	17.031	ug/l 100
17) Allyl chloride	2.73	41	69257	21.405	ug/l 93
18) Methylene Chloride	2.86	84	42837	21.556	ug/l 97
19) trans-1,2-Dichloroethene	3.17	96	40781	20.746	ug/l 91
20) Diisopropyl ether	3.88	45	121117	19.021	ug/l 98
21) 1,1-Dichloroethane	3.70	63	74995	21.917	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	42081	19.170	ug/l 95
23) tert-Butyl Alcohol	3.08	59	56499	144.908	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	137262	21.953	ug/l 96
25) Chloroform	5.23	83	74456	19.985	ug/l 98
26) Cyclohexane	5.58	56	58023	18.650	ug/l # 97
29) 1,1-Dichloropropene	5.80	75	51464	19.422	ug/l 99
30) 2-Butanone	4.72	43	155892	114.803	ug/l 99
31) 2,2-Dichloropropane	4.59	77	53874	18.623	ug/l 98
32) 1,1,1-Trichloroethane	5.50	97	62359	19.449	ug/l 99
33) Carbon Tetrachloride	5.79	117	55653	19.258	ug/l 94
34) Benzene	6.15	78	157853	20.104	ug/l 95
35) Methacrylonitrile	5.07	41	33483	22.221	ug/l 91
36) 1,2-Dichloroethane	6.21	62	59864	19.864	ug/l # 88
37) Trichloroethene	7.22	130	49192	20.661	ug/l 95
38) Methylcyclohexane	7.46	83	63028	20.214	ug/l 97
39) 1,2-Dichloropropane	7.52	63	40061	20.118	ug/l 100
40) Dibromomethane	7.67	93	28370	20.252	ug/l 86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	51241	19.362	ug/l	99
42) Vinyl Acetate	3.83	43	516154	96.631	ug/l	98
43) Ethyl Acetate	4.88	43	58876	22.515	ug/l	99
44) Isopropyl Acetate	6.48	43	92470	20.782	ug/l	99
45) 1,4-Dioxane	7.76	88	21041	520.241	ug/l	96
46) Methyl methacrylate	7.79	41	48280	20.856	ug/l	91
47) n-amyl Acetate	10.91	43	83066	19.453	ug/l	98
48) t-1,3-Dichloropropene	8.44	75	58327	18.722	ug/l	98
49) cis-1,3-Dichloropropene	9.05	75	53844	18.043	ug/l	97
50) 1,1,2-Trichloroethane	9.22	97	43734	21.021	ug/l	98
51) Ethyl methacrylate	9.19	69	60304	20.343	ug/l	92
52) 1,3-Dichloropropane	9.38	76	70195	20.873	ug/l	99
53) Dibromochloromethane	9.59	129	44391	19.331	ug/l	97
54) 1,2-Dibromoethane	9.68	107	45892	20.609	ug/l	97
55) 2-Chloroethyl vinyl ether	8.32	63	150471	103.618	ug/l	99
56) Bromoform	10.87	173	35396	18.833	ug/l #	97
58) 4-Methyl-2-Pentanone	8.66	43	318964	112.625	ug/l	99
59) 2-Hexanone	9.51	43	246724	111.813	ug/l	98
61) Tetrachloroethene	9.34	164	61944	23.689	ug/l	91
62) Toluene	8.79	91	180121	19.641	ug/l	100
64) Chlorobenzene	10.15	112	121780	19.683	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	44364	19.638	ug/l	96
66) Ethyl Benzene	10.26	91	197706	19.313	ug/l	99
67) m/p-Xylenes	10.37	106	158898	39.079	ug/l	98
68) o-Xylene	10.71	106	77184	19.639	ug/l	100
69) Styrene	10.72	104	127124	19.434	ug/l	99
70) Isopropylbenzene	11.02	105	209856	19.663	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	62507	19.968	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	71500	25.522	ug/l	83
73) Bromobenzene	11.26	156	60660	19.558	ug/l	94
74) n-propylbenzene	11.37	91	240287	19.934	ug/l	98
75) 2-Chlorotoluene	11.43	91	140064	19.252	ug/l	97
76) 1,3,5-Trimethylbenzene	11.51	105	182145	20.030	ug/l	68
77) t-1,4-Dichloro-2-butene	11.08	75	14418	17.298	ug/l	83
78) 4-Chlorotoluene	11.52	91	162622	18.741	ug/l	97
79) tert-butylbenzene	12.07	119	202934	20.855	ug/l	94
80) 1,2,4-Trimethylbenzene	11.81	105	187460	20.255	ug/l	98
81) sec-Butylbenzene	11.95	105	222687	21.090	ug/l	99
82) p-Isopropyltoluene	12.07	119	202934	20.855	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	111745	19.760	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	112079	19.440	ug/l	98
85) n-Butylbenzene	12.40	91	168847	20.067	ug/l	99
86) Hexachloroethane	12.60	117	27696	18.622	ug/l	72
87) 1,2-Dichlorobenzene	12.40	146	112678	20.038	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.01	75	13481	20.606	ug/l	90
89) 1,2,4-Trichlorobenzene	13.65	180	86780	20.367	ug/l	98
90) Hexachlorobutadiene	13.79	225	48925	24.735	ug/l	97
91) Naphthalene	13.84	128	237336	21.470	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	89645	21.317	ug/l	97

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

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