

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051818\
 Data File : VX001819.D
 Acq On : 18 May 2018 10:29
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Quant Time: May 18 14:13:38 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 18 10:06:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	60665	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	302749	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	238562	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	116503	29.71	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.03%
60) 4-Bromofluorobenzene	11.14	95	109954	31.00	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.33%
63) Toluene-d8	8.72	98	365397	30.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.03%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	57132	34.14	ug/l	97
3) Chloromethane	1.32	50	67532	21.17	ug/l	99
4) Vinyl Chloride	1.40	62	65364	23.59	ug/l	100
5) Bromomethane	1.64	94	40647	22.36	ug/l	97
6) Chloroethane	1.73	64	45028	21.88	ug/l	97
7) Trichlorofluoromethane	1.93	101	92222	29.83	ug/l	100
8) Diethyl Ether	2.19	74	42863	19.73	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	57074	32.66	ug/l	99
10) 1,1-Dichloroethene	2.37	96	53395	24.95	ug/l	99
11) Methyl Iodide	2.51	142	69928	20.67	ug/l	97
12) Methyl Acetate	2.78	43	101944	19.60	ug/l	99
13) Acrolein	2.29	56	55906	90.06	ug/l	98
14) Acrylonitrile	3.15	53	190287	96.10	ug/l	99
15) Acetone	2.45	58	52676	97.43	ug/l	93
16) Carbon Disulfide	2.57	76	128621	24.03	ug/l	100
17) Allyl chloride	2.73	41	98342	20.56	ug/l	98
18) Methylene Chloride	2.86	84	65822	19.99	ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	58924	22.32	ug/l	97
20) Diisopropyl ether	3.88	45	209838	20.15	ug/l	99
21) 1,1-Dichloroethane	3.70	63	111975	21.00	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	71700	20.93	ug/l	98
23) tert-Butyl Alcohol	3.08	59	81289	98.74	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	200569	19.69	ug/l	100
25) Chloroform	5.22	83	118318	20.82	ug/l	99
26) Cyclohexane	5.57	56	97326	33.52	ug/l	# 99
29) 1,1-Dichloropropene	5.80	75	80419	23.42	ug/l	98
30) 2-Butanone	4.71	43	264216	85.31	ug/l	99
31) 2,2-Dichloropropane	4.59	77	33467	15.41	ug/l	100
32) 1,1,1-Trichloroethane	5.50	97	96373	21.17	ug/l	98
33) Carbon Tetrachloride	5.79	117	85509	23.53	ug/l	97
34) Benzene	6.15	78	264981	19.32	ug/l	99
35) Methacrylonitrile	5.07	41	56551	17.16	ug/l	96
36) 1,2-Dichloroethane	6.20	62	95936	17.90	ug/l	99
37) Trichloroethene	7.22	130	78485	20.93	ug/l	99
38) Methylcyclohexane	7.46	83	97115	30.67	ug/l	98
39) 1,2-Dichloropropane	7.52	63	66088	18.08	ug/l	99
40) Dibromomethane	7.67	93	46794	17.86	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	83143	18.01	ug/l	95
42) Vinyl Acetate	3.83	43	698392	83.22	ug/l	100
43) Ethyl Acetate	4.87	43	101579	17.21	ug/l	99
44) Isopropyl Acetate	6.48	43	149892	17.51	ug/l	98
45) 1,4-Dioxane	7.76	88	37418	357.50	ug/l	95
46) Methyl methacrylate	7.79	41	78759	17.49	ug/l	97
47) n-amyl Acetate	10.90	43	106268	17.94	ug/l	100
48) t-1,3-Dichloropropene	8.44	75	86540	17.82	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	73499	17.30	ug/l	97
50) 1,1,2-Trichloroethane	9.22	97	62867	17.47	ug/l	97
51) Ethyl methacrylate	9.19	69	86537	17.69	ug/l	98
52) 1,3-Dichloropropane	9.38	76	102837	18.02	ug/l	99
53) Dibromochloromethane	9.59	129	62774	17.94	ug/l	98
54) 1,2-Dibromoethane	9.68	107	64181	17.59	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	253471	88.71	ug/l	99
56) Bromoform	10.87	173	49415	17.28	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	514955	86.35	ug/l	100
59) 2-Hexanone	9.51	43	334130	85.41	ug/l	99
61) Tetrachloroethene	9.34	164	83846	23.87	ug/l	97
62) Toluene	8.79	91	286941	20.83	ug/l	99
64) Chlorobenzene	10.15	112	164883	20.44	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	61152	18.79	ug/l	100
66) Ethyl Benzene	10.26	91	264299	23.08	ug/l	100
67) m/p-Xylenes	10.37	106	211922	46.29	ug/l	99
68) o-Xylene	10.71	106	103882	22.05	ug/l	99
69) Styrene	10.72	104	168271	21.42	ug/l	100
70) Isopropylbenzene	11.02	105	276134	24.98	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	85471	17.01	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	92318	19.31	ug/l	90
73) Bromobenzene	11.26	156	79334	20.24	ug/l	100
74) n-propylbenzene	11.37	91	297856	25.89	ug/l	100
75) 2-Chlorotoluene	11.43	91	182180	22.99	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	229958	25.02	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	16216	15.90	ug/l	92
78) 4-Chlorotoluene	11.52	91	207053	23.69	ug/l	99
79) tert-butylbenzene	12.07	119	247829	27.32	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	234416	24.69	ug/l	100
81) sec-Butylbenzene	11.95	105	270344	27.16	ug/l	100
82) p-Isopropyltoluene	12.07	119	247829	27.32	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	138800	22.73	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	138077	22.77	ug/l	99
85) n-Butylbenzene	12.40	91	184838	28.07	ug/l	99
86) Hexachloroethane	12.60	117	38287	25.32	ug/l	99
87) 1,2-Dichlorobenzene	12.40	146	142197	21.46	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	18068	16.96	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	100650	24.10	ug/l	99
90) Hexachlorobutadiene	13.79	225	54197	26.48	ug/l	97
91) Naphthalene	13.84	128	293617	20.18	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	108738	23.14	ug/l	99

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

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