

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051118\
 Data File : VX001623.D
 Acq On : 11 May 2018 01:15
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX051118

Manual Integrations
 APPROVED

apatel
 5/14/2018 3:57:43 PM

Quant Time: May 11 07:29:50 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 11 07:16:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	56803	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	293085	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	262816	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	123106	29.70	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.00%
60) 4-Bromofluorobenzene	11.14	95	123102	29.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.67%
63) Toluene-d8	8.72	98	351603	30.00	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.00%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	62879	22.72	ug/l	98
3) Chloromethane	1.32	50	70401	22.97	ug/l	100
4) Vinyl Chloride	1.40	62	70342	21.98	ug/l	100
5) Bromomethane	1.64	94	51449	32.53	ug/l	100
6) Chloroethane	1.73	64	45237	21.23	ug/l	95
7) Trichlorofluoromethane	1.93	101	99506	21.64	ug/l	99
8) Diethyl Ether	2.19	74	43817	21.98	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	56162	21.99	ug/l	97
10) 1,1-Dichloroethene	2.37	96	57033	21.69	ug/l	99
11) Methyl Iodide	2.51	142	68376	17.90	ug/l	98
12) Methyl Acetate	2.78	43	96247	21.53	ug/l	99
13) Acrolein	2.30	56	50846	100.32	ug/l	99
14) Acrylonitrile	3.15	53	192795	107.97	ug/l	98
15) Acetone	2.45	58	51820	108.02	ug/l	96
16) Carbon Disulfide	2.57	76	142779	21.92	ug/l	99
17) Allyl chloride	2.73	41	106963	21.33	ug/l	97
18) Methylene Chloride	2.86	84	66162	21.32	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	61594	21.58	ug/l	99
20) Diisopropyl ether	3.88	45	203635	21.73	ug/l	99
21) 1,1-Dichloroethane	3.70	63	114009	21.16	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	69409	21.57	ug/l	99
23) tert-Butyl Alcohol	3.08	59	88127	110.92	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	206705	21.64	ug/l	99
25) Chloroform	5.23	83	117568	21.18	ug/l	99
26) Cyclohexane	5.58	56	87301	22.21	ug/l #	97
29) 1,1-Dichloropropene	5.81	75	80140	21.77	ug/l	99
30) 2-Butanone	4.72	43	260629	107.27	ug/l	100
31) 2,2-Dichloropropane	4.59	77	63649	20.11	ug/l	99
32) 1,1,1-Trichloroethane	5.50	97	100584	21.48	ug/l	99
33) Carbon Tetrachloride	5.79	117	86093	20.87	ug/l	99
34) Benzene	6.15	78	250756	21.30	ug/l	98
35) Methacrylonitrile	5.07	41	56114	21.30	ug/l	96
36) 1,2-Dichloroethane	6.21	62	98090	21.06	ug/l	99
37) Trichloroethene	7.22	130	73203	21.10	ug/l	100
38) Methylcyclohexane	7.47	83	88965	22.60	ug/l	98
39) 1,2-Dichloropropane	7.52	63	62093	21.04	ug/l	99
40) Dibromomethane	7.67	93	44271	20.93	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	82119	20.64	ug/l	98
42) Vinyl Acetate	3.83	43	869891	108.55	ug/l	99
43) Ethyl Acetate	4.87	43	101707	21.96	ug/l	97
44) Isopropyl Acetate	6.48	43	150493	21.22	ug/l	99
45) 1,4-Dioxane	7.77	88	35727	429.67	ug/l	99
46) Methyl methacrylate	7.79	41	80749	21.09	ug/l	97
47) n-amyl Acetate	10.91	43	122835	20.28	ug/l	100
48) t-1,3-Dichloropropene	8.45	75	90977	20.72	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	79785	20.56	ug/l	99
50) 1,1,2-Trichloroethane	9.22	97	66467	21.22	ug/l	99
51) Ethyl methacrylate	9.19	69	95233	21.09	ug/l	98
52) 1,3-Dichloropropane	9.38	76	109861	21.29	ug/l	100
53) Dibromochloromethane	9.59	129	66302	20.39	ug/l	98
54) 1,2-Dibromoethane	9.68	107	69589	21.07	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	261324	108.87	ug/l	99
56) Bromoform	10.87	173	52668	19.81	ug/l	97
58) 4-Methyl-2-Pentanone	8.66	43	516006	109.15	ug/l	99
59) 2-Hexanone	9.51	43	380236	107.36	ug/l	100
61) Tetrachloroethene	9.34	164	82967	21.70	ug/l	99
62) Toluene	8.79	91	273951	21.67	ug/l	99
64) Chlorobenzene	10.15	112	180135	21.68	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	66926	21.32	ug/l	98
66) Ethyl Benzene	10.26	91	284988	21.72	ug/l	97
67) m/p-Xylenes	10.37	106	228411	43.60	ug/l	99
68) o-Xylene	10.71	106	111118	21.44	ug/l	99
69) Styrene	10.72	104	182846	21.38	ug/l	99
70) Isopropylbenzene	11.02	105	292669	21.92	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	95918	21.42	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	90382m	20.83	ug/l	
73) Bromobenzene	11.26	156	85595	21.15	ug/l	99
74) n-propylbenzene	11.37	91	320251	21.79	ug/l	99
75) 2-Chlorotoluene	11.43	91	199014	21.59	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	246454	21.93	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	21156	18.96	ug/l	96
78) 4-Chlorotoluene	11.52	91	227887	21.74	ug/l	99
79) tert-butylbenzene	12.07	119	259115	21.79	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	250410	21.83	ug/l	100
81) sec-Butylbenzene	11.95	105	286343	22.00	ug/l	99
82) p-Isopropyltoluene	12.07	119	259115	21.79	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	150914	21.39	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	152113	21.44	ug/l	99
85) n-Butylbenzene	12.40	91	201780	21.34	ug/l	100
86) Hexachloroethane	12.60	117	39338	20.85	ug/l	99
87) 1,2-Dichlorobenzene	12.40	146	154806	21.16	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	21120	20.24	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	109566	21.08	ug/l	100
90) Hexachlorobutadiene	13.79	225	55769	20.97	ug/l	97
91) Naphthalene	13.84	128	334190	21.47	ug/l	100
92) 1,2,3-Trichlorobenzene	14.03	180	117751	21.42	ug/l	99

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

