

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022018\
 Data File : VX000118.D
 Acq On : 20 Feb 2018 20:03
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

apatel
 2/22/2018 4:05:11 PM

Quant Time: Feb 21 06:40:26 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X022018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 21 06:17:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	15840	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	95665	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	92225	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	37570	30.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.17%
60) 4-Bromofluorobenzene	11.15	95	45408	30.10	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.33%
63) Toluene-d8	8.73	98	118466	29.99	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.97%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	20639	21.00	ug/l	100
3) Chloromethane	1.32	50	20653	20.96	ug/l	98
4) Vinyl Chloride	1.40	62	24678	21.05	ug/l	99
5) Bromomethane	1.64	94	19601	18.14	ug/l	99
6) Chloroethane	1.73	64	16673	22.22	ug/l	97
7) Trichlorofluoromethane	1.93	101	43185	21.26	ug/l	98
8) Diethyl Ether	2.20	74	15260	21.52	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.39	101	23875	21.55	ug/l	98
10) 1,1-Dichloroethene	2.38	96	22733	21.48	ug/l	97
11) Methyl Iodide	2.51	142	23402	22.75	ug/l	97
12) Methyl Acetate	2.79	43	41555	21.97	ug/l	100
13) Acrolein	2.30	56	20982	92.19	ug/l	99
14) Acrylonitrile	3.16	53	85726	104.60	ug/l	99
15) Acetone	2.45	58	26618	99.62	ug/l	93
16) Carbon Disulfide	2.57	76	62726	20.72	ug/l	98
17) Allyl chloride	2.73	41	37477	20.77	ug/l	97
18) Methylene Chloride	2.86	84	24826	21.52	ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	24373	21.17	ug/l	97
20) Diisopropyl ether	3.89	45	58728	20.61	ug/l	93
21) 1,1-Dichloroethane	3.70	63	32851	17.49	ug/l	99
22) cis-1,2-Dichloroethene	4.61	96	22163	20.72	ug/l	99
23) tert-Butyl Alcohol	3.09	59	49663	106.01	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	78824	21.61	ug/l	100
25) Chloroform	5.23	83	38324	20.58	ug/l	98
26) Cyclohexane	5.59	56	31217	21.20	ug/l #	98
29) 1,1-Dichloropropene	5.81	75	28527	20.48	ug/l	100
30) 2-Butanone	4.73	43	112696	105.09	ug/l	99
31) 2,2-Dichloropropane	4.60	77	28816	19.23	ug/l	99
32) 1,1,1-Trichloroethane	5.51	97	35254	20.91	ug/l	98
33) Carbon Tetrachloride	5.80	117	30916	20.65	ug/l	95
34) Benzene	6.15	78	83489	20.83	ug/l #	94
35) Methacrylonitrile	5.08	41	20383	20.64	ug/l	91
36) 1,2-Dichloroethane	6.21	62	31819	20.93	ug/l	100
37) Trichloroethene	7.23	130	24113	20.35	ug/l	93
38) Methylcyclohexane	7.47	83	33474	20.04	ug/l	98
39) 1,2-Dichloropropane	7.52	63	20846	20.83	ug/l	99
40) Dibromomethane	7.68	93	16519	21.42	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	29742	20.29	ug/l	92
42) Vinyl Acetate	3.84	43	274643	100.48	ug/l	100
43) Ethyl Acetate	4.88	43	39612	21.03	ug/l	99
44) Isopropyl Acetate	6.48	43	57858	20.93	ug/l	99
45) 1,4-Dioxane	7.77	88	14122	406.29	ug/l	96
46) Methyl methacrylate	7.79	41	28826	21.44	ug/l	97
47) n-amyl Acetate	10.91	43	50244	20.82	ug/l	98
48) t-1,3-Dichloropropene	8.45	75	34942	20.48	ug/l	98
49) cis-1,3-Dichloropropene	9.05	75	34116	20.55	ug/l	95
50) 1,1,2-Trichloroethane	9.23	97	23120	20.42	ug/l	98
51) Ethyl methacrylate	9.20	69	34694	20.00	ug/l	98
52) 1,3-Dichloropropane	9.38	76	37747	20.79	ug/l	100
53) Dibromochloromethane	9.59	129	26179	20.78	ug/l	99
54) 1,2-Dibromoethane	9.68	107	25560	20.25	ug/l	95
55) 2-Chloroethyl vinyl ether	8.32	63	84141	111.09	ug/l	100
56) Bromoform	10.87	173	19288	18.91	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	215121	106.49	ug/l	99
59) 2-Hexanone	9.51	43	178846	104.56	ug/l	98
61) Tetrachloroethene	9.34	164	22878	20.43	ug/l	96
62) Toluene	8.79	91	99929	20.83	ug/l	98
64) Chlorobenzene	10.15	112	67145	20.71	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	23263	20.25	ug/l	98
66) Ethyl Benzene	10.26	91	112335	20.51	ug/l	99
67) m/p-Xylenes	10.37	106	88536	41.23	ug/l	98
68) o-Xylene	10.71	106	42501	20.38	ug/l	98
69) Styrene	10.72	104	70857	20.51	ug/l	99
70) Isopropylbenzene	11.02	105	114255	20.27	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.28	83	40533	20.90	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	35956m	20.66	ug/l	
73) Bromobenzene	11.26	156	29868	20.21	ug/l	98
74) n-propylbenzene	11.37	91	136029	20.59	ug/l	100
75) 2-Chlorotoluene	11.43	91	77494	20.40	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	99031	20.73	ug/l	70
77) t-1,4-Dichloro-2-butene	11.09	75	11870	19.29	ug/l	93
78) 4-Chlorotoluene	11.52	91	94925	20.86	ug/l	99
79) tert-butylbenzene	11.78	119	98204m	20.65	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	102309	20.99	ug/l	98
81) sec-Butylbenzene	11.96	105	123101	20.94	ug/l	100
82) p-Isopropyltoluene	12.07	119	108757	20.74	ug/l	99
83) 1,3-Dichlorobenzene	12.04	146	58794	20.89	ug/l	98
84) 1,4-Dichlorobenzene	12.11	146	59297	20.22	ug/l	99
85) n-Butylbenzene	12.40	91	101866	20.71	ug/l	98
86) Hexachloroethane	12.60	117	17535	20.02	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	57280	20.54	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	11387	20.99	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	40366	19.71	ug/l	99
90) Hexachlorobutadiene	13.79	225	16960	19.22	ug/l	100
91) Naphthalene	13.84	128	147869	20.66	ug/l	99
92) 1,2,3-Trichlorobenzene	14.03	180	40867	19.85	ug/l	100

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

