

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051418\
 Data File : VX001706.D
 Acq On : 14 May 2018 11:14
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

apatel
 5/16/2018 6:18:56 PM

Quant Time: May 16 03:13:07 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	61355	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	327253	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	307403	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	128306	28.66	ug/l	-0.01
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.53%
60) 4-Bromofluorobenzene	11.14	95	139973	28.77	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.90%
63) Toluene-d8	8.72	98	404012	29.47	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.23%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	79502	26.59	ug/l	99
3) Chloromethane	1.32	50	77797	23.50	ug/l	99
4) Vinyl Chloride	1.41	62	80857	23.40	ug/l	98
5) Bromomethane	1.65	94	43682	25.57	ug/l	97
6) Chloroethane	1.73	64	50466	21.93	ug/l	92
7) Trichlorofluoromethane	1.93	101	124669	25.11	ug/l	100
8) Diethyl Ether	2.19	74	46937	21.80	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	76449	27.71	ug/l	98
10) 1,1-Dichloroethene	2.38	96	67315	23.71	ug/l	98
11) Methyl Iodide	2.51	142	87210	21.14	ug/l	99
12) Methyl Acetate	2.78	43	92619	19.18	ug/l	99
13) Acrolein	2.29	56	53182	97.14	ug/l	99
14) Acrylonitrile	3.15	53	186084	96.48	ug/l	99
15) Acetone	2.45	58	55364	106.85	ug/l	98
16) Carbon Disulfide	2.57	76	170409	24.23	ug/l	99
17) Allyl chloride	2.73	41	124541	22.99	ug/l	95
18) Methylene Chloride	2.86	84	74633	22.27	ug/l	95
19) trans-1,2-Dichloroethene	3.17	96	72094	23.39	ug/l	98
20) Diisopropyl ether	3.87	45	233334	23.06	ug/l	97
21) 1,1-Dichloroethane	3.70	63	131977	22.68	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	81716	23.51	ug/l	97
23) tert-Butyl Alcohol	3.06	59	77640	90.47	ug/l	# 100
24) Methyl tert-Butyl Ether	3.20	73	221682	21.49	ug/l	99
25) Chloroform	5.21	83	137001	22.85	ug/l	96
26) Cyclohexane	5.58	56	117582	27.69	ug/l	# 100
29) 1,1-Dichloropropene	5.80	75	100583	24.47	ug/l	98
30) 2-Butanone	4.70	43	257204	94.81	ug/l	100
31) 2,2-Dichloropropane	4.59	77	109395	30.95	ug/l	97
32) 1,1,1-Trichloroethane	5.49	97	121661	23.27	ug/l	99
33) Carbon Tetrachloride	5.79	117	110796	24.06	ug/l	100
34) Benzene	6.15	78	300045	22.82	ug/l	98
35) Methacrylonitrile	5.06	41	55440	18.85	ug/l	96
36) 1,2-Dichloroethane	6.20	62	111549	21.45	ug/l	99
37) Trichloroethene	7.21	130	94854	24.48	ug/l	98
38) Methylcyclohexane	7.46	83	125590	28.57	ug/l	99
39) 1,2-Dichloropropane	7.52	63	73432	22.28	ug/l	99
40) Dibromomethane	7.67	93	51390	21.76	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	98305	22.13	ug/l	98
42) Vinyl Acetate	3.82	43	966431	108.00	ug/l	99
43) Ethyl Acetate	4.85	43	98126	18.98	ug/l	98
44) Isopropyl Acetate	6.47	43	154275	19.48	ug/l	99
45) 1,4-Dioxane	7.76	88	34739	374.17	ug/l	98
46) Methyl methacrylate	7.78	41	83098	19.43	ug/l	96
47) n-amyl Acetate	10.90	43	129496	19.15	ug/l	98
48) t-1,3-Dichloropropene	8.44	75	114686	23.39	ug/l	99
49) cis-1,3-Dichloropropene	9.04	75	103937	23.99	ug/l	98
50) 1,1,2-Trichloroethane	9.22	97	78523	22.46	ug/l	98
51) Ethyl methacrylate	9.18	69	104238	20.68	ug/l	98
52) 1,3-Dichloropropane	9.38	76	129678	22.51	ug/l	98
53) Dibromochloromethane	9.59	129	77616	21.37	ug/l	99
54) 1,2-Dibromoethane	9.68	107	77543	21.02	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	242121	90.34	ug/l	100
56) Bromoform	10.86	173	59889	20.17	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	506242	91.56	ug/l	99
59) 2-Hexanone	9.50	43	386649	93.34	ug/l	100
61) Tetrachloroethene	9.34	164	114752	25.66	ug/l	100
62) Toluene	8.79	91	340013	22.99	ug/l	100
64) Chlorobenzene	10.14	112	228739	23.54	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	83890	22.85	ug/l	100
66) Ethyl Benzene	10.26	91	375014	24.44	ug/l	99
67) m/p-Xylenes	10.37	106	305161	49.80	ug/l	99
68) o-Xylene	10.70	106	143615	23.69	ug/l	99
69) Styrene	10.71	104	238587	23.85	ug/l	99
70) Isopropylbenzene	11.02	105	369778	23.68	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	98221	18.75	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	99731m	19.65	ug/l	
73) Bromobenzene	11.26	156	103552	21.88	ug/l	99
74) n-propylbenzene	11.37	91	426270	24.79	ug/l	100
75) 2-Chlorotoluene	11.43	91	248743	23.07	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	309947	23.58	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	27321	20.93	ug/l	91
78) 4-Chlorotoluene	11.51	91	290084	23.66	ug/l	100
79) tert-butylbenzene	12.07	119	357086	25.68	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	319057	23.78	ug/l	100
81) sec-Butylbenzene	11.95	105	380586	25.00	ug/l	100
82) p-Isopropyltoluene	12.07	119	357086	25.68	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	193327	23.42	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	197448	23.80	ug/l	98
85) n-Butylbenzene	12.39	91	295020	26.68	ug/l	99
86) Hexachloroethane	12.60	117	51518	23.35	ug/l	99
87) 1,2-Dichlorobenzene	12.40	146	191107	22.33	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	21201	17.37	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	149338	24.56	ug/l	100
90) Hexachlorobutadiene	13.79	225	82364	26.47	ug/l	98
91) Naphthalene	13.84	128	376556	20.68	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	150818	23.45	ug/l	99

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

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