

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050219\
 Data File : VX009271.D
 Acq On : 02 May 2019 12:42
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/3/2019 11:19:53 AM

Quant Time: May 03 07:31:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	30383	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	177968	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	158050	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	74558	29.58	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.60%
60) 4-Bromofluorobenzene	11.13	95	80400	29.94	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.80%
63) Toluene-d8	8.71	98	226119	30.18	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	32388	20.061	ug/l 98
3) Chloromethane	1.32	50	43938	20.247	ug/l 99
4) Vinyl Chloride	1.40	62	42385	19.578	ug/l 99
5) Bromomethane	1.64	94	25617	18.667	ug/l 94
6) Chloroethane	1.72	64	26661	18.779	ug/l 99
7) Trichlorofluoromethane	1.93	101	53308	19.941	ug/l 100
8) Diethyl Ether	2.18	74	24221	19.513	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	33620	20.313	ug/l 99
10) 1,1-Dichloroethene	2.37	96	33277	20.024	ug/l 97
11) Methyl Iodide	2.51	142	34406	19.045	ug/l 98
12) Methyl Acetate	2.77	43	60077	19.193	ug/l 98
13) Acrolein	2.29	56	37986	88.479	ug/l 100
14) Acrylonitrile	3.14	53	133295	98.124	ug/l 98
15) Acetone	2.44	58	35999	92.299	ug/l 97
16) Carbon Disulfide	2.57	76	88597	19.704	ug/l 98
17) Allyl chloride	2.73	41	77865	19.516	ug/l 98
18) Methylene Chloride	2.85	84	40299	20.065	ug/l 94
19) trans-1,2-Dichloroethene	3.17	96	35233	19.884	ug/l 98
20) Diisopropyl ether	3.85	45	154130	19.617	ug/l 97
21) 1,1-Dichloroethane	3.70	63	74599	19.620	ug/l 100
22) cis-1,2-Dichloroethene	4.60	96	41978	19.668	ug/l 98
23) tert-Butyl Alcohol	3.04	59	54410	94.724	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	127798	19.650	ug/l 99
25) Chloroform	5.21	83	69221	19.949	ug/l 99
26) Cyclohexane	5.57	56	71257	20.108	ug/l # 97
29) 1,1-Dichloropropene	5.80	75	51585	19.754	ug/l 100
30) 2-Butanone	4.67	43	197775	96.707	ug/l 100
31) 2,2-Dichloropropane	4.58	77	53804	18.689	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	56363	19.910	ug/l 98
33) Carbon Tetrachloride	5.78	117	46282	19.540	ug/l 98
34) Benzene	6.14	78	160946	19.991	ug/l 99
35) Methacrylonitrile	5.04	41	43248	20.213	ug/l 96
36) 1,2-Dichloroethane	6.19	62	58396	19.990	ug/l 99
37) Trichloroethene	7.21	130	38198	19.710	ug/l 89
38) Methylcyclohexane	7.46	83	65548	20.317	ug/l 99
39) 1,2-Dichloropropane	7.51	63	44446	19.386	ug/l 98
40) Dibromomethane	7.66	93	26239	20.165	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	52285	19.671	ug/l	97
42) Vinyl Acetate	3.81	43	673231	99.742	ug/l	99
43) Ethyl Acetate	4.83	43	73233	19.817	ug/l	99
44) Isopropyl Acetate	6.44	43	115207	19.244	ug/l	99
45) 1,4-Dioxane	7.74	88	23319	396.743	ug/l	98
46) Methyl methacrylate	7.77	41	58023	19.418	ug/l	95
47) n-amyl Acetate	10.90	43	102244	18.959	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	58979	19.018	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	65421	19.216	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	39929	20.029	ug/l	98
51) Ethyl methacrylate	9.18	69	71597	19.434	ug/l	97
52) 1,3-Dichloropropane	9.37	76	69650	19.686	ug/l	100
53) Dibromochloromethane	9.58	129	38777	19.531	ug/l	99
54) 1,2-Dibromoethane	9.67	107	39910	19.519	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	184640	94.054	ug/l	100
56) Bromoform	10.85	173	28524	18.715	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	383683	98.728	ug/l	99
59) 2-Hexanone	9.49	43	295799	97.041	ug/l	100
61) Tetrachloroethene	9.34	164	35762	20.525	ug/l	99
62) Toluene	8.78	91	169975	20.126	ug/l	100
64) Chlorobenzene	10.13	112	100362	19.745	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	36568	19.649	ug/l	99
66) Ethyl Benzene	10.25	91	187231	19.900	ug/l	99
67) m/p-Xylenes	10.36	106	137809	40.118	ug/l	100
68) o-Xylene	10.69	106	67130	19.875	ug/l	100
69) Styrene	10.71	104	117497	19.816	ug/l	100
70) Isopropylbenzene	11.02	105	184200	20.278	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	65679	19.743	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	57415m	20.027	ug/l	
73) Bromobenzene	11.26	156	43750	19.493	ug/l	98
74) n-propylbenzene	11.36	91	211711	20.112	ug/l	100
75) 2-Chlorotoluene	11.42	91	125657	19.902	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	154337	20.058	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	20832	18.015	ug/l	97
78) 4-Chlorotoluene	11.51	91	142748	19.906	ug/l	99
79) tert-butylbenzene	11.77	119	147821	19.872	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	154497	20.033	ug/l	98
81) sec-Butylbenzene	11.94	105	179867	20.352	ug/l	99
82) p-Isopropyltoluene	12.06	119	160805	20.003	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	78670	19.628	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	78956	19.772	ug/l	98
85) n-Butylbenzene	12.38	91	145750	19.813	ug/l	98
86) Hexachloroethane	12.60	117	25970	18.984	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	79076	19.599	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	14815	19.164	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	56728	19.726	ug/l	99
90) Hexachlorobutadiene	13.78	225	28633	19.933	ug/l	99
91) Naphthalene	13.83	128	190847	20.269	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	60143	20.574	ug/l	100

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

