

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX020520\
 Data File : VX014835.D
 Acq On : 05 Feb 2020 20:10
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 2/6/2020 1:32:15 PM

Quant Time: Feb 06 03:31:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	71176	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	386860	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	349711	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	150287	30.04	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.13%
60) 4-Bromofluorobenzene	11.13	95	163610	29.24	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.47%
63) Toluene-d8	8.71	98	468804	29.68	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	94573	19.226	ug/l 96
3) Chloromethane	1.32	50	98461	18.283	ug/l 94
4) Vinyl Chloride	1.40	62	115331	19.073	ug/l 100
5) Bromomethane	1.64	94	71940	19.065	ug/l 98
6) Chloroethane	1.72	64	64704	18.981	ug/l 97
7) Trichlorofluoromethane	1.93	101	134045	20.020	ug/l 99
8) Diethyl Ether	2.18	74	57763	19.751	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	2.37	101	77274	19.727	ug/l 100
10) 1,1-Dichloroethene	2.37	96	79170	20.093	ug/l 94
11) Methyl Iodide	2.50	142	105897	20.040	ug/l 97
12) Methyl Acetate	2.76	43	143763	20.198	ug/l 99
13) Acrolein	2.28	56	62881	84.107	ug/l 99
14) Acrylonitrile	3.13	53	228983	94.019	ug/l 98
15) Acetone	2.43	58	74704	91.494	ug/l 87
16) Carbon Disulfide	2.56	76	196197	18.130	ug/l 98
17) Allyl chloride	2.72	41	135090	18.526	ug/l 93
18) Methylene Chloride	2.85	84	91325	19.804	ug/l 95
19) trans-1,2-Dichloroethene	3.16	96	84495	19.921	ug/l 97
20) Diisopropyl ether	3.84	45	284079	19.690	ug/l 98
21) 1,1-Dichloroethane	3.69	63	152888	19.507	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	97151	19.932	ug/l 98
23) tert-Butyl Alcohol	3.02	59	99863	99.146	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	269392	20.544	ug/l 99
25) Chloroform	5.20	83	151947	20.013	ug/l 99
26) Cyclohexane	5.57	56	135063	18.682	ug/l # 100
29) 1,1-Dichloropropene	5.79	75	110460	19.469	ug/l 99
30) 2-Butanone	4.65	43	340310	94.688	ug/l 100
31) 2,2-Dichloropropane	4.58	77	118388	19.501	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	129415	20.618	ug/l 98
33) Carbon Tetrachloride	5.78	117	109859	20.387	ug/l 97
34) Benzene	6.14	78	347086	19.797	ug/l 98
35) Methacrylonitrile	5.03	41	67543	18.817	ug/l 91
36) 1,2-Dichloroethane	6.18	62	125936	20.641	ug/l 98
37) Trichloroethene	7.21	130	98887	20.600	ug/l 96
38) Methylcyclohexane	7.46	83	133642	18.918	ug/l 98
39) 1,2-Dichloropropane	7.51	63	88156	19.337	ug/l 95
40) Dibromomethane	7.65	93	57661	19.680	ug/l 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	115172	20.073	ug/l	99
42) Vinyl Acetate	3.80	43	1082502	97.721	ug/l	99
43) Ethyl Acetate	4.82	43	128417	19.738	ug/l	98
44) Isopropyl Acetate	6.43	43	208097	19.827	ug/l	100
45) 1,4-Dioxane	7.73	88	43205	411.524	ug/l	95
46) Methyl methacrylate	7.76	41	99819	19.340	ug/l	98
47) n-amyl Acetate	10.89	43	173796	19.762	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	126331	20.167	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	138721	19.654	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	91282	20.475	ug/l	98
51) Ethyl methacrylate	9.17	69	137095	19.749	ug/l	97
52) 1,3-Dichloropropane	9.36	76	150659	19.945	ug/l	98
53) Dibromochloromethane	9.57	129	93599	20.525	ug/l	100
54) 1,2-Dibromoethane	9.67	107	94980	20.542	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	296761	93.021	ug/l	99
56) Bromoform	10.85	173	69555	19.802	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	648346	98.448	ug/l	99
59) 2-Hexanone	9.48	43	489300	96.069	ug/l	99
61) Tetrachloroethene	9.33	164	108214	20.936	ug/l	92
62) Toluene	8.78	91	377854	20.365	ug/l	100
64) Chlorobenzene	10.14	112	237417	20.498	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.21	131	88338	20.650	ug/l	100
66) Ethyl Benzene	10.25	91	411575	20.366	ug/l	97
67) m/p-Xylenes	10.35	106	317125	40.967	ug/l	99
68) o-Xylene	10.70	106	152401	20.218	ug/l	99
69) Styrene	10.71	104	256752	20.103	ug/l	100
70) Isopropylbenzene	11.01	105	407850	20.653	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	134630	20.239	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	112367m	19.748	ug/l	
73) Bromobenzene	11.25	156	108849	20.793	ug/l	97
74) n-propylbenzene	11.35	91	461262	20.441	ug/l	100
75) 2-Chlorotoluene	11.42	91	273285	20.207	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	337963	20.539	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	41482	18.942	ug/l	98
78) 4-Chlorotoluene	11.51	91	310935	20.245	ug/l	98
79) tert-butylbenzene	11.76	119	320950	20.845	ug/l	97
80) 1,2,4-Trimethylbenzene	11.80	105	338203	20.607	ug/l	99
81) sec-Butylbenzene	11.94	105	384057	20.158	ug/l	98
82) p-Isopropyltoluene	12.06	119	361364	20.776	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	189692	20.753	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	186451	20.575	ug/l	100
85) n-Butylbenzene	12.39	91	295901	19.444	ug/l	99
86) Hexachloroethane	12.59	117	60612	19.433	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	188862	20.478	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	29513	20.770	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	129103	21.208	ug/l	99
90) Hexachlorobutadiene	13.78	225	62870	20.669	ug/l	99
91) Naphthalene	13.83	128	391704	21.316	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	131848	21.279	ug/l	99

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

