

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032219\
 Data File : VX008331.D
 Acq On : 22 Mar 2019 11:23
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 3/23/2019 9:33:37 AM

Quant Time: Mar 22 15:33:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 22 13:03:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	31714	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	167406	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	146187	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	65027	30.01	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.03%
60) 4-Bromofluorobenzene	11.13	95	70988	29.83	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.43%
63) Toluene-d8	8.71	98	198267	30.10	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	34139	20.063	ug/l 100
3) Chloromethane	1.33	50	35383	20.337	ug/l 98
4) Vinyl Chloride	1.41	62	39304	20.044	ug/l 97
5) Bromomethane	1.65	94	32225	9.065	ug/l 99
6) Chloroethane	1.73	64	26640	19.115	ug/l 98
7) Trichlorofluoromethane	1.93	101	61028	19.550	ug/l 98
8) Diethyl Ether	2.19	74	22764	18.803	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	33000	19.115	ug/l 100
10) 1,1-Dichloroethene	2.38	96	33550	19.688	ug/l 98
11) Methyl Iodide	2.51	142	49285	19.133	ug/l 98
12) Methyl Acetate	2.78	43	36014	19.368	ug/l 97
13) Acrolein	2.29	56	30304	104.031	ug/l 99
14) Acrylonitrile	3.15	53	91234	98.867	ug/l 99
15) Acetone	2.45	58	41391	114.383	ug/l 93
16) Carbon Disulfide	2.57	76	92974	19.677	ug/l 100
17) Allyl chloride	2.73	41	48345	19.226	ug/l 94
18) Methylene Chloride	2.86	84	35952	19.599	ug/l 95
19) trans-1,2-Dichloroethene	3.17	96	35090	19.399	ug/l 91
20) Diisopropyl ether	3.85	45	103812	19.745	ug/l # 80
21) 1,1-Dichloroethane	3.70	63	60267	19.409	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	40881	19.595	ug/l 96
23) tert-Butyl Alcohol	3.04	59	37085	98.993	ug/l 100
24) Methyl tert-Butyl Ether	3.20	73	106785	19.505	ug/l 97
25) Chloroform	5.22	83	64080	19.454	ug/l 97
26) Cyclohexane	5.59	56	53013	19.304	ug/l # 100
29) 1,1-Dichloropropene	5.81	75	46640	19.616	ug/l 98
30) 2-Butanone	4.68	43	146427	106.920	ug/l 97
31) 2,2-Dichloropropane	4.59	77	42913	19.170	ug/l 98
32) 1,1,1-Trichloroethane	5.50	97	54878	19.616	ug/l # 90
33) Carbon Tetrachloride	5.79	117	50153	19.520	ug/l 97
34) Benzene	6.15	78	141196	19.936	ug/l 98
35) Methacrylonitrile	5.05	41	25252	19.795	ug/l 96
36) 1,2-Dichloroethane	6.20	62	51906	19.883	ug/l 100
37) Trichloroethene	7.21	130	40941	19.661	ug/l 92
38) Methylcyclohexane	7.46	83	57320	19.235	ug/l 98
39) 1,2-Dichloropropane	7.52	63	36799	20.419	ug/l 100
40) Dibromomethane	7.66	93	26386	19.963	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	49371	19.685	ug/l	96
42) Vinyl Acetate	3.82	43	453828	98.593	ug/l	99
43) Ethyl Acetate	4.84	43	47240	19.531	ug/l #	83
44) Isopropyl Acetate	6.45	43	74430	19.564	ug/l	97
45) 1,4-Dioxane	7.74	88	19680	411.284	ug/l	99
46) Methyl methacrylate	7.77	41	36507	19.557	ug/l	97
47) n-amyl Acetate	10.90	43	61301	18.794	ug/l	96
48) t-1,3-Dichloropropene	9.04	75	46979	18.708	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	53634	19.141	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	37196	19.589	ug/l	96
51) Ethyl methacrylate	9.18	69	54885	19.798	ug/l	96
52) 1,3-Dichloropropane	9.37	76	61002	20.031	ug/l	100
53) Dibromochloromethane	9.58	129	42279	19.752	ug/l	98
54) 1,2-Dibromoethane	9.67	107	41761	20.045	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	138740	99.475	ug/l	98
56) Bromoform	10.85	173	32613	19.299	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	248472	100.949	ug/l	97
59) 2-Hexanone	9.49	43	202932	104.227	ug/l	98
61) Tetrachloroethene	9.34	164	39684	20.166	ug/l	97
62) Toluene	8.79	91	155638	20.057	ug/l	100
64) Chlorobenzene	10.14	112	98309	19.652	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	37759	19.763	ug/l	99
66) Ethyl Benzene	10.25	91	165970	19.777	ug/l	99
67) m/p-Xylenes	10.36	106	131277	39.360	ug/l	99
68) o-Xylene	10.70	106	63595	19.848	ug/l	97
69) Styrene	10.71	104	106713	19.728	ug/l	98
70) Isopropylbenzene	11.02	105	168136	19.945	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.27	83	57218	19.905	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	47140m	19.647	ug/l	
73) Bromobenzene	11.26	156	46441	19.912	ug/l	99
74) n-propylbenzene	11.36	91	181883	19.357	ug/l	99
75) 2-Chlorotoluene	11.42	91	110821	19.749	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	142594	19.801	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	14724	17.949	ug/l	97
78) 4-Chlorotoluene	11.51	91	126381	19.136	ug/l	99
79) tert-butylbenzene	12.06	119	146793	19.378	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	141500	19.773	ug/l	98
81) sec-Butylbenzene	11.94	105	159182	19.379	ug/l	99
82) p-Isopropyltoluene	12.06	119	146793	19.378	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	77407	19.121	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	78062	19.364	ug/l	97
85) n-Butylbenzene	12.39	91	120982	18.567	ug/l	100
86) Hexachloroethane	12.60	117	24227	18.557	ug/l	91
87) 1,2-Dichlorobenzene	12.39	146	78607	19.689	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	12624	19.184	ug/l	89
89) 1,2,4-Trichlorobenzene	13.65	180	51375	18.182	ug/l	96
90) Hexachlorobutadiene	13.78	225	27047	19.015	ug/l	97
91) Naphthalene	13.83	128	163255	19.237	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	54468	19.068	ug/l	100

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

