

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
 Data File : VX010979.D
 Acq On : 18 Jul 2019 23:31
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 9:56:35 AM

Quant Time: Jul 19 03:28:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:13:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	40226	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	224393	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	208531	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	82818	25.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	85.97%
60) 4-Bromofluorobenzene	11.13	95	105663	30.28	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.93%
63) Toluene-d8	8.71	98	273665	28.13	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	93.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	286164	126.108	ug/l 97
3) Chloromethane	1.32	50	239493	85.618	ug/l 99
4) Vinyl Chloride	1.41	62	253223	90.511	ug/l 97
5) Bromomethane	1.64	94	130155	72.092	ug/l 98
6) Chloroethane	1.71	64	146854	81.866	ug/l 96
7) Trichlorofluoromethane	1.92	101	418169	114.022	ug/l 95
8) Diethyl Ether	2.19	74	134831	84.728	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	230114	104.200	ug/l 99
10) 1,1-Dichloroethene	2.37	96	227011	102.262	ug/l 96
11) Methyl Iodide	2.51	142	347050	138.515	ug/l 96
12) Methyl Acetate	2.78	43	330324	82.695	ug/l 98
13) Acrolein	2.29	56	194431	358.468	ug/l 100
14) Acrylonitrile	3.14	53	639006	376.099	ug/l 99
15) Acetone	2.45	58	174137	360.445	ug/l 97
16) Carbon Disulfide	2.57	76	622758	105.468	ug/l 99
17) Allyl chloride	2.73	41	343743	70.313	ug/l 99
18) Methylene Chloride	2.85	84	252720	95.634	ug/l 97
19) trans-1,2-Dichloroethene	3.17	96	244260	103.179	ug/l 99
20) Diisopropyl ether	3.85	45	709193	72.960	ug/l 98
21) 1,1-Dichloroethane	3.70	63	411017	84.953	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	280255	99.595	ug/l 98
23) tert-Butyl Alcohol	3.06	59	300404	403.634	ug/l 100
24) Methyl tert-Butyl Ether	3.20	73	750087	89.522	ug/l 99
25) Chloroform	5.21	83	446233	98.285	ug/l 99
26) Cyclohexane	5.58	56	365604	81.543	ug/l # 96
29) 1,1-Dichloropropene	5.80	75	326977	100.156	ug/l 99
30) 2-Butanone	4.67	43	888992	369.414	ug/l 100
31) 2,2-Dichloropropane	4.58	77	294718	85.625	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	409022	113.248	ug/l 98
33) Carbon Tetrachloride	5.79	117	365224	120.995	ug/l 99
34) Benzene	6.14	78	971712	97.117	ug/l 98
35) Methacrylonitrile	5.04	41	188629	75.436	ug/l 98
36) 1,2-Dichloroethane	6.19	62	352868	97.875	ug/l # 88
37) Trichloroethene	7.21	130	286084	114.095	ug/l 97
38) Methylcyclohexane	7.46	83	408813	100.815	ug/l 100
39) 1,2-Dichloropropane	7.51	63	244908	87.851	ug/l 98
40) Dibromomethane	7.66	93	181468	109.531	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	348820	106.006	ug/l	100
42) Vinyl Acetate	3.82	43	2976781	376.617	ug/l	100
43) Ethyl Acetate	4.84	43	340662	78.371	ug/l	100
44) Isopropyl Acetate	6.45	43	566780	79.565	ug/l	100
45) 1,4-Dioxane	7.74	88	139348	1885.555	ug/l	97
46) Methyl methacrylate	7.77	41	281965	79.905	ug/l	99
47) n-amyl Acetate	10.90	43	522219	81.488	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	382092	101.237	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	405943	97.731	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	269249	107.048	ug/l	97
51) Ethyl methacrylate	9.18	69	426550	95.077	ug/l	98
52) 1,3-Dichloropropane	9.37	76	426723	97.341	ug/l	100
53) Dibromochloromethane	9.58	129	313973	124.010	ug/l	100
54) 1,2-Dibromoethane	9.67	107	297399	114.089	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	858673	374.477	ug/l	99
56) Bromoform	10.85	173	242346	125.726	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	1810791	376.385	ug/l	99
59) 2-Hexanone	9.49	43	1376090	366.197	ug/l	99
61) Tetrachloroethene	9.34	164	270584	112.601	ug/l	96
62) Toluene	8.78	91	1122520	100.922	ug/l	99
64) Chlorobenzene	10.13	112	727675	107.181	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	281222	113.503	ug/l	99
66) Ethyl Benzene	10.25	91	1280837	103.170	ug/l	98
67) m/p-Xylenes	10.36	106	982794	213.858	ug/l	96
68) o-Xylene	10.69	106	477768	105.913	ug/l	98
69) Styrene	10.71	104	829957	106.042	ug/l	98
70) Isopropylbenzene	11.02	105	1300805	107.974	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	410162	94.850	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	345440m	93.858	ug/l	
73) Bromobenzene	11.26	156	346593	114.173	ug/l	98
74) n-propylbenzene	11.36	91	1483106	106.774	ug/l	100
75) 2-Chlorotoluene	11.42	91	863564	103.927	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	1100042	107.542	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	133040	92.740	ug/l	89
78) 4-Chlorotoluene	11.51	91	1006955	106.368	ug/l	98
79) tert-butylbenzene	11.77	119	1075223	108.967	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	1099970	107.179	ug/l	99
81) sec-Butylbenzene	11.94	105	1268507	108.071	ug/l	100
82) p-Isopropyltoluene	12.06	119	1184820	110.544	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	616176	113.525	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	621951	114.630	ug/l	99
85) n-Butylbenzene	12.38	91	1038890	107.146	ug/l	99
86) Hexachloroethane	12.60	117	205474	116.254	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	591144	108.191	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	95523	96.508	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	428390	111.074	ug/l	98
90) Hexachlorobutadiene	13.78	225	199365	104.049	ug/l	96
91) Naphthalene	13.83	128	1306722	105.023	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	424144	108.740	ug/l	99

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

