

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070820\
 Data File : VX017272.D
 Acq On : 08 Jul 2020 21:53
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 7/9/2020 10:59:56 AM

Quant Time: Jul 09 05:08:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 26 09:03:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	57068	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	286659	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	269455	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	123457	27.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	92.63%
60) 4-Bromofluorobenzene	11.12	95	135745	30.21	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.70%
63) Toluene-d8	8.70	98	347315	29.24	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	41124	14.819	ug/l 95
3) Chloromethane	1.31	50	46552	12.370	ug/l 98
4) Vinyl Chloride	1.39	62	47729	12.437	ug/l 93
5) Bromomethane	1.63	94	33382	12.081	ug/l 99
6) Chloroethane	1.72	64	31089	12.560	ug/l 99
7) Trichlorofluoromethane	1.92	101	80044	12.825	ug/l 97
8) Diethyl Ether	2.17	74	28457	12.531	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	44062	13.302	ug/l 90
10) 1,1-Dichloroethene	2.36	96	45751	14.004	ug/l 87
11) Methyl Iodide	2.49	142	43947	10.075	ug/l 97
12) Methyl Acetate	2.75	43	63488	15.406	ug/l 97
13) Acrolein	2.27	56	53093	81.649	ug/l 99
14) Acrylonitrile	3.12	53	144652	74.112	ug/l 98
15) Acetone	2.42	58	39194	77.596	ug/l 93
16) Carbon Disulfide	2.55	76	123592	12.034	ug/l 98
17) Allyl chloride	2.71	41	82263	13.451	ug/l 96
18) Methylene Chloride	2.84	84	55634	14.138	ug/l 91
19) trans-1,2-Dichloroethene	3.14	96	52066	14.066	ug/l 94
20) Diisopropyl ether	3.82	45	170701	13.966	ug/l 96
21) 1,1-Dichloroethane	3.67	63	96731	14.353	ug/l 97
22) cis-1,2-Dichloroethene	4.56	96	58282	14.142	ug/l 93
23) tert-Butyl Alcohol	3.01	59	59435	68.744	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	173444	14.868	ug/l 98
25) Chloroform	5.18	83	100255	14.672	ug/l 100
26) Cyclohexane	5.55	56	66237	11.267	ug/l # 94
29) 1,1-Dichloropropene	5.77	75	65377	14.000	ug/l 98
30) 2-Butanone	4.64	43	200204	82.250	ug/l 99
31) 2,2-Dichloropropane	4.55	77	73665	13.755	ug/l 99
32) 1,1,1-Trichloroethane	5.46	97	89697	15.874	ug/l 97
33) Carbon Tetrachloride	5.76	117	78397	15.645	ug/l 97
34) Benzene	6.12	78	207636	15.270	ug/l 98
35) Methacrylonitrile	5.00	41	43580	16.223	ug/l 93
36) 1,2-Dichloroethane	6.17	62	82564	15.854	ug/l 100
37) Trichloroethene	7.19	130	60239	16.236	ug/l 89
38) Methylcyclohexane	7.44	83	65288	12.277	ug/l 99
39) 1,2-Dichloropropane	7.49	63	55125	15.561	ug/l 98
40) Dibromomethane	7.64	93	39232	16.069	ug/l 89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	81178	16.057	ug/l	94
42) Vinyl Acetate	3.79	43	745569	76.009	ug/l	98
43) Ethyl Acetate	4.79	43	81371	16.139	ug/l	99
44) Isopropyl Acetate	6.42	43	123528	14.864	ug/l	97
45) 1,4-Dioxane	7.71	88	23668	282.295	ug/l	96
46) Methyl methacrylate	7.74	41	60249	15.666	ug/l	94
47) n-amyl Acetate	10.88	43	103295	14.062	ug/l	96
48) t-1,3-Dichloropropene	9.02	75	82087	14.685	ug/l	99
49) cis-1,3-Dichloropropene	8.42	75	89658	15.262	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	56948	16.713	ug/l	97
51) Ethyl methacrylate	9.16	69	80873	15.466	ug/l	97
52) 1,3-Dichloropropane	9.35	76	95659	16.352	ug/l	100
53) Dibromochloromethane	9.57	129	67963	17.354	ug/l	98
54) 1,2-Dibromoethane	9.65	107	62213	17.207	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	229675	83.464	ug/l	97
56) Bromoform	10.84	173	53133	19.112	ug/l #	97
58) 4-Methyl-2-Pentanone	8.62	43	399361	80.461	ug/l	97
59) 2-Hexanone	9.47	43	294429	79.484	ug/l	97
61) Tetrachloroethene	9.32	164	57770	16.811	ug/l	93
62) Toluene	8.76	91	219333	14.882	ug/l	99
64) Chlorobenzene	10.12	112	146428	15.859	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.20	131	59219	17.037	ug/l	98
66) Ethyl Benzene	10.24	91	237418	14.527	ug/l	99
67) m/p-Xylenes	10.34	106	185082	30.020	ug/l	97
68) o-Xylene	10.68	106	87450	14.766	ug/l	100
69) Styrene	10.70	104	155216	15.307	ug/l	97
70) Isopropylbenzene	11.00	105	234672	14.609	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	82722	16.768	ug/l	98
72) 1,2,3-Trichloropropane	11.28	75	81743m	17.255	ug/l	
73) Bromobenzene	11.24	156	68121	16.804	ug/l	95
74) n-propylbenzene	11.34	91	263038	13.792	ug/l	98
75) 2-Chlorotoluene	11.40	91	167809	15.088	ug/l	98
76) 1,3,5-Trimethylbenzene	11.49	105	200342	14.859	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	28306	14.743	ug/l	97
78) 4-Chlorotoluene	11.49	91	199306	15.135	ug/l	100
79) tert-butylbenzene	11.76	119	193169	14.955	ug/l	98
80) 1,2,4-Trimethylbenzene	11.79	105	203396	15.026	ug/l	99
81) sec-Butylbenzene	11.93	105	212395	13.582	ug/l	100
82) p-Isopropyltoluene	12.05	119	200834	14.223	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	117137	16.124	ug/l	98
84) 1,4-Dichlorobenzene	12.08	146	120909	16.564	ug/l	99
85) n-Butylbenzene	12.37	91	164232	12.566	ug/l	99
86) Hexachloroethane	12.58	117	39330	14.233	ug/l	87
87) 1,2-Dichlorobenzene	12.38	146	116774	17.173	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.98	75	19355	17.245	ug/l	89
89) 1,2,4-Trichlorobenzene	13.63	180	73552	16.033	ug/l	99
90) Hexachlorobutadiene	13.76	225	25898	14.840	ug/l	99
91) Naphthalene	13.82	128	243563	16.197	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	74378	16.613	ug/l	98

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

