

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX121919\
 Data File : VX014112.D
 Acq On : 19 Dec 2019 11:07
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

apatel
 12/20/2019 10:12:36 AM

Quant Time: Dec 20 01:17:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:35:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	93775	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	516579	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	463003	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	195865	29.16	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.20%
60) 4-Bromofluorobenzene	11.13	95	224699	30.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.17%
63) Toluene-d8	8.71	98	638652	30.86	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	93170	19.669	ug/l 98
3) Chloromethane	1.32	50	131502	19.697	ug/l 98
4) Vinyl Chloride	1.40	62	137640	20.111	ug/l 98
5) Bromomethane	1.63	94	87758	17.541	ug/l 100
6) Chloroethane	1.72	64	84481	19.984	ug/l 93
7) Trichlorofluoromethane	1.92	101	173572	20.381	ug/l 99
8) Diethyl Ether	2.18	74	75433	19.270	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	106144	20.897	ug/l 99
10) 1,1-Dichloroethene	2.36	96	104733	19.945	ug/l 97
11) Methyl Iodide	2.50	142	126050	18.647	ug/l 99
12) Methyl Acetate	2.76	43	160145	19.700	ug/l 96
13) Acrolein	2.28	56	117779	119.453	ug/l 97
14) Acrylonitrile	3.12	53	312616	98.369	ug/l 100
15) Acetone	2.43	58	141011	151.044	ug/l 88
16) Carbon Disulfide	2.56	76	292676	20.574	ug/l 99
17) Allyl chloride	2.72	41	187990	19.923	ug/l 94
18) Methylene Chloride	2.84	84	123145	19.139	ug/l 96
19) trans-1,2-Dichloroethene	3.15	96	114559	19.922	ug/l 100
20) Diisopropyl ether	3.84	45	379417	19.596	ug/l 93
21) 1,1-Dichloroethane	3.69	63	205443	19.551	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	129879	19.484	ug/l 97
23) tert-Butyl Alcohol	3.02	59	122318	98.129	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	342066	19.284	ug/l 99
25) Chloroform	5.19	83	200099	19.973	ug/l 96
26) Cyclohexane	5.57	56	186730	19.928	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	154020	20.641	ug/l 100
30) 2-Butanone	4.65	43	531040	120.741	ug/l 100
31) 2,2-Dichloropropane	4.57	77	158319	22.937	ug/l 97
32) 1,1,1-Trichloroethane	5.48	97	166500	20.174	ug/l 98
33) Carbon Tetrachloride	5.77	117	142472	20.307	ug/l 97
34) Benzene	6.13	78	469516	20.180	ug/l 98
35) Methacrylonitrile	5.03	41	92806	19.619	ug/l 94
36) 1,2-Dichloroethane	6.18	62	161103	19.933	ug/l 99
37) Trichloroethene	7.20	130	126105	19.919	ug/l 91
38) Methylcyclohexane	7.45	83	191822	21.551	ug/l 99
39) 1,2-Dichloropropane	7.50	63	116269	19.240	ug/l 93
40) Dibromomethane	7.65	93	78798	20.412	ug/l 97

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

41) Bromodichloromethane	7.89	83	148109	19.814	ug/l #	96
42) Vinyl Acetate	3.80	43	1609619	103.659	ug/l	99
43) Ethyl Acetate	4.81	43	175329m	20.775	ug/l	
44) Isopropyl Acetate	6.43	43	275207	19.470	ug/l	100
45) 1,4-Dioxane	7.73	88	57417	433.776	ug/l	98
46) Methyl methacrylate	7.76	41	133905	19.504	ug/l	98
47) n-amyl Acetate	10.89	43	229447	18.256	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	162801	19.955	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	185476	20.216	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	117194	19.671	ug/l	96
51) Ethyl methacrylate	9.17	69	181234	19.124	ug/l	96
52) 1,3-Dichloropropane	9.36	76	201610	19.918	ug/l	100
53) Dibromochloromethane	9.57	129	118814	19.944	ug/l	98
54) 1,2-Dibromoethane	9.67	107	122771	20.014	ug/l	98
55) 2-Chloroethyl vinyl ether	8.30	63	480416	115.002	ug/l	100
56) Bromoform	10.85	173	86802	18.684	ug/l	99
58) 4-Methyl-2-Pentanone	8.63	43	869505	100.370	ug/l	99
59) 2-Hexanone	9.48	43	722251	109.860	ug/l	99
61) Tetrachloroethene	9.33	164	128859	21.038	ug/l	96
62) Toluene	8.78	91	506687	20.576	ug/l	99
64) Chlorobenzene	10.13	112	313537	20.323	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	111307	19.484	ug/l	98
66) Ethyl Benzene	10.25	91	549646	20.396	ug/l	99
67) m/p-Xylenes	10.35	106	423132	41.074	ug/l	100
68) o-Xylene	10.69	106	201941	19.788	ug/l	99
69) Styrene	10.71	104	341758	19.692	ug/l	98
70) Isopropylbenzene	11.01	105	538045	20.402	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	176037	18.822	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	146611m	17.611	ug/l	
73) Bromobenzene	11.25	156	137583	19.543	ug/l	99
74) n-propylbenzene	11.35	91	619799	20.721	ug/l	99
75) 2-Chlorotoluene	11.42	91	365556	20.226	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	446709	19.967	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	53839	19.584	ug/l	96
78) 4-Chlorotoluene	11.51	91	414204	20.055	ug/l	98
79) tert-butylbenzene	11.76	119	429246	19.906	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	440378	19.686	ug/l	99
81) sec-Butylbenzene	11.94	105	519295	20.246	ug/l	99
82) p-Isopropyltoluene	12.06	119	478463	20.671	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	244837	19.953	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	241342	19.752	ug/l	100
85) n-Butylbenzene	12.39	91	403846	20.751	ug/l	99
86) Hexachloroethane	12.59	117	80999	19.290	ug/l	92
87) 1,2-Dichlorobenzene	12.39	146	241366	19.365	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	36301	19.474	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	160170	20.107	ug/l	99
90) Hexachlorobutadiene	13.78	225	79597	21.022	ug/l	99
91) Naphthalene	13.83	128	462505	19.317	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	160783	19.900	ug/l	97

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

