

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX121719\
 Data File : VX014082.D
 Acq On : 18 Dec 2019 04:57
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

apatel
 12/18/2019 11:05:39 AM

Quant Time: Dec 18 08:33:11 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	91228	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	502655	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	451453	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	192593	29.48	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.27%
60) 4-Bromofluorobenzene	11.13	95	214956	29.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.30%
63) Toluene-d8	8.71	98	618378	30.64	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	83534	18.127	ug/l 96
3) Chloromethane	1.32	50	125617	19.340	ug/l 95
4) Vinyl Chloride	1.40	62	128566	19.309	ug/l 97
5) Bromomethane	1.64	94	73019	15.002	ug/l 93
6) Chloroethane	1.72	64	84222	20.479	ug/l 97
7) Trichlorofluoromethane	1.92	101	157042	18.955	ug/l 98
8) Diethyl Ether	2.18	74	74641	19.600	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.37	101	91004	18.417	ug/l 100
10) 1,1-Dichloroethene	2.37	96	97722	19.129	ug/l 96
11) Methyl Iodide	2.50	142	123812	18.827	ug/l 97
12) Methyl Acetate	2.76	43	157119	19.867	ug/l 94
13) Acrolein	2.28	56	83660	87.218	ug/l 99
14) Acrylonitrile	3.13	53	309770	100.195	ug/l 100
15) Acetone	2.43	58	132585	145.984	ug/l 97
16) Carbon Disulfide	2.56	76	264211	19.092	ug/l 97
17) Allyl chloride	2.72	41	170048	18.524	ug/l 95
18) Methylene Chloride	2.85	84	116067	18.542	ug/l 94
19) trans-1,2-Dichloroethene	3.15	96	106272	18.997	ug/l 96
20) Diisopropyl ether	3.84	45	354513	18.821	ug/l 92
21) 1,1-Dichloroethane	3.69	63	193882	18.965	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	122733	18.926	ug/l 98
23) tert-Butyl Alcohol	3.03	59	112341m	92.641	ug/l
24) Methyl tert-Butyl Ether	3.18	73	324500	18.804	ug/l 98
25) Chloroform	5.20	83	187690	19.257	ug/l 100
26) Cyclohexane	5.58	56	169369	18.580	ug/l # 97
29) 1,1-Dichloropropene	5.79	75	140213	19.311	ug/l 99
30) 2-Butanone	4.65	43	492558	115.094	ug/l 100
31) 2,2-Dichloropropane	4.57	77	107910	16.067	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	152488	18.988	ug/l 100
33) Carbon Tetrachloride	5.78	117	129134	18.916	ug/l 96
34) Benzene	6.14	78	449331	19.847	ug/l 98
35) Methacrylonitrile	5.03	41	92751	20.151	ug/l 94
36) 1,2-Dichloroethane	6.18	62	154038	19.587	ug/l 98
37) Trichloroethene	7.21	130	133542	21.678	ug/l 96
38) Methylcyclohexane	7.45	83	155965	18.008	ug/l 100
39) 1,2-Dichloropropane	7.51	63	114270	19.433	ug/l 96
40) Dibromomethane	7.65	93	75157	20.008	ug/l 99

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

41) Bromodichloromethane	7.89	83	139715	19.209	ug/l	99
42) Vinyl Acetate	3.81	43	595267	39.397	ug/l #	94
43) Ethyl Acetate	4.82	43	165743	20.183	ug/l #	80
44) Isopropyl Acetate	6.43	43	263345	19.147	ug/l	99
45) 1,4-Dioxane	7.73	88	46427	360.464	ug/l	97
46) Methyl methacrylate	7.76	41	126845	18.987	ug/l	97
47) n-amyl Acetate	10.89	43	221078	18.078	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	142558	17.958	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	163806	18.348	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	112240	19.361	ug/l	98
51) Ethyl methacrylate	9.17	69	173605	18.827	ug/l	97
52) 1,3-Dichloropropane	9.37	76	194345	19.732	ug/l	100
53) Dibromochloromethane	9.57	129	107177	18.489	ug/l	98
54) 1,2-Dibromoethane	9.67	107	118228	19.808	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	396447	97.530	ug/l	100
56) Bromoform	10.85	173	81323	17.990	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	839195	99.350	ug/l	99
59) 2-Hexanone	9.48	43	676543	105.540	ug/l	99
61) Tetrachloroethene	9.33	164	176251	29.511	ug/l	93
62) Toluene	8.78	91	474562	19.765	ug/l	99
64) Chlorobenzene	10.14	112	293787	19.530	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.21	131	105381	18.919	ug/l	99
66) Ethyl Benzene	10.25	91	511021	19.448	ug/l	100
67) m/p-Xylenes	10.35	106	389848	38.811	ug/l	98
68) o-Xylene	10.70	106	188730	18.966	ug/l	98
69) Styrene	10.71	104	320813	18.958	ug/l	99
70) Isopropylbenzene	11.01	105	496301	19.300	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	139797	15.330	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	160491m	19.772	ug/l	
73) Bromobenzene	11.25	156	129327	18.840	ug/l	98
74) n-propylbenzene	11.35	91	562735	19.294	ug/l	98
75) 2-Chlorotoluene	11.42	91	336426	19.090	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	410431	18.815	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	45465	16.961	ug/l	97
78) 4-Chlorotoluene	11.51	91	381247	18.932	ug/l	97
79) tert-butylbenzene	11.76	119	343578	16.341	ug/l	93
80) 1,2,4-Trimethylbenzene	11.80	105	408595	18.733	ug/l	98
81) sec-Butylbenzene	11.94	105	471644	18.859	ug/l	100
82) p-Isopropyltoluene	12.06	119	425576	18.857	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	223859	18.710	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	221371	18.581	ug/l	98
85) n-Butylbenzene	12.38	91	353035	18.605	ug/l	99
86) Hexachloroethane	12.59	117	69655	17.013	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	227379	18.710	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	33676	18.528	ug/l	96
89) 1,2,4-Trichlorobenzene	13.64	180	143451	18.469	ug/l	98
90) Hexachlorobutadiene	13.77	225	62424	16.908	ug/l	98
91) Naphthalene	13.83	128	448228	19.200	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	149204	18.939	ug/l	99

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

