

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111419\
 Data File : VX013410.D
 Acq On : 14 Nov 2019 09:52
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 11/15/2019 9:20:59 AM

Quant Time: Nov 15 03:03:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	119691	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	665632	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	589763	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	254868	28.84	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.13%
60) 4-Bromofluorobenzene	11.13	95	281260	29.67	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.90%
63) Toluene-d8	8.71	98	809068	30.34	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	176363	19.666 ug/l	98
3) Chloromethane	1.31	50	188492	19.285 ug/l	100
4) Vinyl Chloride	1.40	62	216525	19.497 ug/l	99
5) Bromomethane	1.62	94	120432	18.038 ug/l	99
6) Chloroethane	1.72	64	113925	18.662 ug/l	99
7) Trichlorofluoromethane	1.92	101	224820	18.804 ug/l	98
8) Diethyl Ether	2.17	74	103565	18.971 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	140663	19.555 ug/l	99
10) 1,1-Dichloroethene	2.36	96	139058	18.812 ug/l	96
11) Methyl Iodide	2.50	142	157879	17.297 ug/l	100
12) Methyl Acetate	2.76	43	236437	18.253 ug/l	98
13) Acrolein	2.28	56	124405	90.417 ug/l	99
14) Acrylonitrile	3.12	53	421693	88.532 ug/l	98
15) Acetone	2.43	58	139985	97.036 ug/l	95
16) Carbon Disulfide	2.56	76	380324	18.446 ug/l	100
17) Allyl chloride	2.72	41	251425	18.470 ug/l	100
18) Methylene Chloride	2.84	84	157709	18.804 ug/l	99
19) trans-1,2-Dichloroethene	3.16	96	146002	18.481 ug/l	96
20) Diisopropyl ether	3.84	45	491964	18.785 ug/l	96
21) 1,1-Dichloroethane	3.69	63	266217	18.663 ug/l	99
22) cis-1,2-Dichloroethene	4.58	96	168038	18.656 ug/l	98
23) tert-Butyl Alcohol	3.03	59	196186	85.586 ug/l	# 100
24) Methyl tert-Butyl Ether	3.18	73	454858	18.592 ug/l	99
25) Chloroform	5.19	83	263475	18.870 ug/l	99
26) Cyclohexane	5.56	56	244936	18.908 ug/l	# 99
29) 1,1-Dichloropropene	5.79	75	199072	19.581 ug/l	99
30) 2-Butanone	4.65	43	641800	95.639 ug/l	99
31) 2,2-Dichloropropane	4.57	77	217958m	19.795 ug/l	
32) 1,1,1-Trichloroethane	5.48	97	218707	19.354 ug/l	98
33) Carbon Tetrachloride	5.77	117	187859	19.139 ug/l	98
34) Benzene	6.13	78	609982	19.780 ug/l	98
35) Methacrylonitrile	5.02	41	121288	18.099 ug/l	96
36) 1,2-Dichloroethane	6.18	62	207281	19.203 ug/l	100
37) Trichloroethene	7.20	130	160623	19.442 ug/l	92
38) Methylcyclohexane	7.45	83	248857	19.963 ug/l	99
39) 1,2-Dichloropropane	7.50	63	155274	19.473 ug/l	98
40) Dibromomethane	7.65	93	102910	19.393 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	197651	19.080	ug/l	97
42) Vinyl Acetate	3.80	43	2036829	96.406	ug/l	100
43) Ethyl Acetate	4.82	43	222303	18.163	ug/l	96
44) Isopropyl Acetate	6.43	43	369289	18.770	ug/l	99
45) 1,4-Dioxane	7.73	88	81283	374.212	ug/l	98
46) Methyl methacrylate	7.76	41	183136	18.713	ug/l	99
47) n-amyl Acetate	10.89	43	312651	18.117	ug/l	98
48) t-1,3-Dichloropropene	9.03	75	216924	18.675	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	244373	19.200	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	154108	19.626	ug/l	98
51) Ethyl methacrylate	9.17	69	246084	19.034	ug/l	97
52) 1,3-Dichloropropane	9.36	76	261889	19.509	ug/l	99
53) Dibromochloromethane	9.57	129	159815	19.203	ug/l	97
54) 1,2-Dibromoethane	9.67	107	159811	19.033	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	502978	91.050	ug/l	99
56) Bromoform	10.85	173	121404	18.331	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	1176197	95.468	ug/l	100
59) 2-Hexanone	9.48	43	915014	93.865	ug/l	100
61) Tetrachloroethene	9.33	164	147210	20.242	ug/l	98
62) Toluene	8.78	91	660301	20.100	ug/l	99
64) Chlorobenzene	10.14	112	403144	19.627	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	150619	19.590	ug/l	98
66) Ethyl Benzene	10.25	91	711834	19.724	ug/l	98
67) m/p-Xylenes	10.36	106	547741	39.345	ug/l	99
68) o-Xylene	10.70	106	261289	19.448	ug/l	99
69) Styrene	10.71	104	440169	19.186	ug/l	98
70) Isopropylbenzene	11.01	105	701615	19.818	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	244836	19.315	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	194198m	18.144	ug/l	
73) Bromobenzene	11.25	156	179874	19.266	ug/l	98
74) n-propylbenzene	11.35	91	791166	19.665	ug/l	100
75) 2-Chlorotoluene	11.42	91	468010	19.562	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	589843	19.822	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	77597	17.930	ug/l	97
78) 4-Chlorotoluene	11.51	91	542204	19.780	ug/l	99
79) tert-butylbenzene	11.76	119	573070	19.087	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	575465	19.406	ug/l	99
81) sec-Butylbenzene	11.94	105	672908	19.644	ug/l	99
82) p-Isopropyltoluene	12.06	119	621579	19.694	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	316640	19.291	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	314113	19.279	ug/l	99
85) n-Butylbenzene	12.39	91	515939	18.941	ug/l	99
86) Hexachloroethane	12.59	117	107565	18.572	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	313038	19.072	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	51547	18.184	ug/l	96
89) 1,2,4-Trichlorobenzene	13.64	180	198230	17.516	ug/l	94
90) Hexachlorobutadiene	13.78	225	103723	19.127	ug/l	98
91) Naphthalene	13.83	128	632756	17.659	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	207087	18.107	ug/l	100

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

