

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121719\
 Data File : VX014071.D
 Acq On : 18 Dec 2019 00:21
 Operator : JC/SP
 Sample : VX1217WBS02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX1217WBS02

Manual Integrations
 APPROVED

apatel
 12/18/2019 11:05:19 AM

Quant Time: Dec 18 08:10:19 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	5.01	128	95902	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	525315	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	474359	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	201683	29.36	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.87%
60) 4-Bromofluorobenzene	11.14	95	223108	29.13	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.10%
63) Toluene-d8	8.71	98	648400	30.58	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	83078	17.149	ug/l 100
3) Chloromethane	1.32	50	127782	18.715	ug/l 100
4) Vinyl Chloride	1.40	62	131864	18.840	ug/l 98
5) Bromomethane	1.63	94	80748	15.782	ug/l 96
6) Chloroethane	1.72	64	84851	19.626	ug/l 100
7) Trichlorofluoromethane	1.92	101	161042	18.490	ug/l 100
8) Diethyl Ether	2.18	74	77899	19.458	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	95284	18.343	ug/l 98
10) 1,1-Dichloroethene	2.37	96	100634	18.739	ug/l 97
11) Methyl Iodide	2.50	142	123131	17.811	ug/l 96
12) Methyl Acetate	2.76	43	168074	20.216	ug/l 100
13) Acrolein	2.28	56	97452	96.645	ug/l 94
14) Acrylonitrile	3.13	53	325808	100.247	ug/l 99
15) Acetone	2.43	58	151988	159.191	ug/l 85
16) Carbon Disulfide	2.56	76	269168	18.502	ug/l 97
17) Allyl chloride	2.72	41	179896	18.642	ug/l 98
18) Methylene Chloride	2.85	84	118996	18.084	ug/l 95
19) trans-1,2-Dichloroethene	3.16	96	109650	18.646	ug/l 98
20) Diisopropyl ether	3.84	45	368554	18.613	ug/l 94
21) 1,1-Dichloroethane	3.69	63	201641	18.763	ug/l 98
22) cis-1,2-Dichloroethene	4.59	96	123753	18.153	ug/l 98
23) tert-Butyl Alcohol	3.03	59	137959	108.222	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	335475	18.493	ug/l 99
25) Chloroform	5.20	83	196620	19.190	ug/l 95
26) Cyclohexane	5.57	56	174137	18.172	ug/l 97
29) 1,1-Dichloropropene	5.79	75	144146	18.997	ug/l 99
30) 2-Butanone	4.66	43	549938	122.959	ug/l 99
31) 2,2-Dichloropropane	4.58	77	125223	17.840	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	158755	18.915	ug/l 99
33) Carbon Tetrachloride	5.78	117	134072	18.792	ug/l 94
34) Benzene	6.14	78	456355	19.288	ug/l 99
35) Methacrylonitrile	5.03	41	97918	20.356	ug/l 95
36) 1,2-Dichloroethane	6.19	62	156424	19.032	ug/l 99
37) Trichloroethene	7.20	130	131327	20.398	ug/l 99
38) Methylcyclohexane	7.46	83	168888	18.659	ug/l 96
39) 1,2-Dichloropropane	7.51	63	116261	18.919	ug/l 96
40) Dibromomethane	7.65	93	76658	19.527	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	143599	18.891	ug/l	95
42) Vinyl Acetate	3.80	43	878703	55.647	ug/l	97
43) Ethyl Acetate	4.83	43	176076	20.517	ug/l	99
44) Isopropyl Acetate	6.43	43	279424	19.440	ug/l	99
45) 1,4-Dioxane	7.73	88	55850	414.920	ug/l	98
46) Methyl methacrylate	7.76	41	134606	19.280	ug/l	97
47) n-amyl Acetate	10.89	43	228565	17.884	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	151791	18.296	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	175291	18.788	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	116242	19.187	ug/l	99
51) Ethyl methacrylate	9.17	69	182073	18.893	ug/l	96
52) 1,3-Dichloropropane	9.37	76	199658	19.397	ug/l	100
53) Dibromochloromethane	9.57	129	114151	18.843	ug/l	98
54) 1,2-Dibromoethane	9.67	107	120020	19.241	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	393296	92.581	ug/l	99
56) Bromoform	10.85	173	83939	17.768	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	905610	102.035	ug/l	100
59) 2-Hexanone	9.48	43	743282	110.352	ug/l	99
61) Tetrachloroethene	9.33	164	176274	28.090	ug/l	98
62) Toluene	8.78	91	481330	19.078	ug/l	99
64) Chlorobenzene	10.14	112	298050	18.857	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.21	131	109861	18.771	ug/l	98
66) Ethyl Benzene	10.25	91	518613	18.784	ug/l	99
67) m/p-Xylenes	10.36	106	399549	37.856	ug/l	99
68) o-Xylene	10.70	106	192984	18.457	ug/l	99
69) Styrene	10.71	104	320296	18.014	ug/l	99
70) Isopropylbenzene	11.01	105	510980	18.912	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	158726	16.565	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	166451m	19.516	ug/l	
73) Bromobenzene	11.25	156	132445	18.363	ug/l	99
74) n-propylbenzene	11.35	91	568012	18.535	ug/l	99
75) 2-Chlorotoluene	11.42	91	342206	18.480	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	416844	18.186	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	50891	18.069	ug/l	90
78) 4-Chlorotoluene	11.51	91	382607	18.082	ug/l	99
79) tert-butylbenzene	11.76	119	354988	16.068	ug/l	92
80) 1,2,4-Trimethylbenzene	11.80	105	416950	18.193	ug/l	100
81) sec-Butylbenzene	11.94	105	479039	18.230	ug/l	98
82) p-Isopropyltoluene	12.06	119	429498	18.111	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	224035	17.820	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	222517	17.775	ug/l	99
85) n-Butylbenzene	12.39	91	350725	17.590	ug/l	99
86) Hexachloroethane	12.59	117	74476	17.312	ug/l	93
87) 1,2-Dichlorobenzene	12.39	146	226436	17.733	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	34108	17.859	ug/l	92
89) 1,2,4-Trichlorobenzene	13.64	180	138872	17.016	ug/l	97
90) Hexachlorobutadiene	13.78	225	66859	17.235	ug/l	97
91) Naphthalene	13.83	128	441979	18.018	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	143576	17.345	ug/l	100

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

