

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121219\
 Data File : VX013999.D
 Acq On : 13 Dec 2019 02:50
 Operator : JC/SP
 Sample : VX1212WBSD04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX1212WBSD04

Manual Integrations
 APPROVED

MMDadoda
 12/13/2019 12:40:09 PM

Quant Time: Dec 13 04:51:54 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	87717	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	498071	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	453125	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	190504	30.33	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.10%
60) 4-Bromofluorobenzene	11.14	95	210855	28.82	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.07%
63) Toluene-d8	8.71	98	616105	30.42	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	80157	18.090	ug/l 99
3) Chloromethane	1.32	50	116453	18.647	ug/l 97
4) Vinyl Chloride	1.40	62	118673	18.537	ug/l 100
5) Bromomethane	1.63	94	84876	18.136	ug/l 98
6) Chloroethane	1.70	64	74699	18.890	ug/l 98
7) Trichlorofluoromethane	1.92	101	147212	18.479	ug/l 99
8) Diethyl Ether	2.18	74	67895	18.542	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	87534	18.424	ug/l 98
10) 1,1-Dichloroethene	2.36	96	92017	18.733	ug/l 97
11) Methyl Iodide	2.50	142	101759	16.093	ug/l 99
12) Methyl Acetate	2.77	43	136753	17.984	ug/l 99
13) Acrolein	2.28	56	100538	109.009	ug/l 99
14) Acrylonitrile	3.13	53	276093	92.877	ug/l 98
15) Acetone	2.44	58	74482	85.291	ug/l 90
16) Carbon Disulfide	2.56	76	243159	18.274	ug/l 97
17) Allyl chloride	2.72	41	156810	17.766	ug/l 98
18) Methylene Chloride	2.85	84	115688	19.221	ug/l 95
19) trans-1,2-Dichloroethene	3.16	96	96312	17.906	ug/l 94
20) Diisopropyl ether	3.84	45	330735	18.261	ug/l 96
21) 1,1-Dichloroethane	3.69	63	179717	18.284	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	113346	18.178	ug/l 99
23) tert-Butyl Alcohol	3.04	59	109289	93.732	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	303805	18.310	ug/l 98
25) Chloroform	5.20	83	171517	18.302	ug/l 98
26) Cyclohexane	5.57	56	159686	18.219	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	128492	17.860	ug/l 99
30) 2-Butanone	4.66	43	380859	89.813	ug/l 100
31) 2,2-Dichloropropane	4.57	77	109796	16.498	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	143402	18.021	ug/l 99
33) Carbon Tetrachloride	5.77	117	119354	17.644	ug/l 96
34) Benzene	6.13	78	412434	18.385	ug/l 99
35) Methacrylonitrile	5.03	41	82849	18.165	ug/l 98
36) 1,2-Dichloroethane	6.19	62	140409	18.018	ug/l 99
37) Trichloroethene	7.21	130	108300	17.742	ug/l 98
38) Methylcyclohexane	7.46	83	153673	17.907	ug/l 99
39) 1,2-Dichloropropane	7.51	63	105009	18.023	ug/l 92
40) Dibromomethane	7.65	93	67241	18.065	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	127953	17.754	ug/l	99
42) Vinyl Acetate	3.80	43	1401575	93.615	ug/l	100
43) Ethyl Acetate	4.82	43	154153	18.945	ug/l	100
44) Isopropyl Acetate	6.44	43	243226	17.847	ug/l	99
45) 1,4-Dioxane	7.73	88	49741	389.749	ug/l	99
46) Methyl methacrylate	7.76	41	118533	17.906	ug/l	97
47) n-amyl Acetate	10.89	43	208851	17.235	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	136126	17.305	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	154920	17.513	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	104343	18.165	ug/l	99
51) Ethyl methacrylate	9.17	69	161247	17.647	ug/l	98
52) 1,3-Dichloropropane	9.37	76	174476	17.877	ug/l	96
53) Dibromochloromethane	9.58	129	102187	17.791	ug/l	99
54) 1,2-Dibromoethane	9.67	107	107085	18.106	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	400316	99.388	ug/l	99
56) Bromoform	10.86	173	73849	16.487	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	771700	91.022	ug/l	99
59) 2-Hexanone	9.49	43	579767	90.109	ug/l	99
61) Tetrachloroethene	9.33	164	105534	17.605	ug/l	95
62) Toluene	8.78	91	438604	18.200	ug/l	100
64) Chlorobenzene	10.14	112	270821	17.937	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	98339	17.590	ug/l	98
66) Ethyl Benzene	10.25	91	477778	18.116	ug/l	100
67) m/p-Xylenes	10.36	106	362748	35.980	ug/l	99
68) o-Xylene	10.70	106	177739	17.796	ug/l	99
69) Styrene	10.71	104	299449	17.631	ug/l	99
70) Isopropylbenzene	11.01	105	462683	17.927	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	162563	17.761	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	146214m	17.947	ug/l	
73) Bromobenzene	11.25	156	122594	17.793	ug/l	99
74) n-propylbenzene	11.35	91	524152	17.905	ug/l	100
75) 2-Chlorotoluene	11.42	91	316555	17.896	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	389577	17.793	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	43546	16.185	ug/l	97
78) 4-Chlorotoluene	11.51	91	352061	17.418	ug/l	98
79) tert-butylbenzene	11.76	119	372533	17.652	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	387881	17.717	ug/l	100
81) sec-Butylbenzene	11.94	105	437855	17.443	ug/l	99
82) p-Isopropyltoluene	12.06	119	398215	17.579	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	207922	17.314	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	208491	17.435	ug/l	98
85) n-Butylbenzene	12.39	91	317413	16.666	ug/l	100
86) Hexachloroethane	12.59	117	70089	17.056	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	216344	17.736	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	32354	17.735	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	129491	16.610	ug/l	98
90) Hexachlorobutadiene	13.78	225	63790	17.214	ug/l	99
91) Naphthalene	13.83	128	402401	17.173	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	138222	17.480	ug/l	98

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

