

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX121219\
 Data File : VX013995.D
 Acq On : 13 Dec 2019 00:30
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

apatel
 12/13/2019 12:40:12 PM

Quant Time: Dec 13 01:32:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:15:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	85417	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	496826	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	458389	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	184297	29.16	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.20%
60) 4-Bromofluorobenzene	11.14	95	228450	30.90	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.00%
63) Toluene-d8	8.71	98	600331	28.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	631092	105.113	ug/l 99
3) Chloromethane	1.31	50	913684	133.126	ug/l 97
4) Vinyl Chloride	1.40	62	936357	122.745	ug/l 100
5) Bromomethane	1.62	94	670759	138.978	ug/l 98
6) Chloroethane	1.70	64	576640	134.574	ug/l 97
7) Trichlorofluoromethane	1.91	101	1186448	140.016	ug/l 100
8) Diethyl Ether	2.18	74	555343	143.292	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.37	101	697456	137.612	ug/l 99
10) 1,1-Dichloroethene	2.36	96	739782	141.571	ug/l 95
11) Methyl Iodide	2.50	142	1068505	164.190	ug/l 99
12) Methyl Acetate	2.76	43	1114328	123.988	ug/l 100
13) Acrolein	2.28	56	741444	749.420	ug/l 99
14) Acrylonitrile	3.14	53	2219418	666.120	ug/l 99
15) Acetone	2.44	58	584769	599.847	ug/l 88
16) Carbon Disulfide	2.56	76	2104224	145.327	ug/l 98
17) Allyl chloride	2.72	41	1362371	142.050	ug/l 99
18) Methylene Chloride	2.84	84	850945	140.786	ug/l 97
19) trans-1,2-Dichloroethene	3.15	96	809616	144.156	ug/l 99
20) Diisopropyl ether	3.85	45	2714300	144.882	ug/l 90
21) 1,1-Dichloroethane	3.69	63	1473789	144.844	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	942723	146.569	ug/l 99
23) tert-Butyl Alcohol	3.06	59	881324	560.510	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	2504290	143.965	ug/l 100
25) Chloroform	5.20	83	1409275	141.957	ug/l 100
26) Cyclohexane	5.57	56	1327303	143.546	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	1102461	145.698	ug/l 100
30) 2-Butanone	4.67	43	3069015	636.130	ug/l 99
31) 2,2-Dichloropropane	4.57	77	1026039	129.355	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	1221962	146.327	ug/l 99
33) Carbon Tetrachloride	5.78	117	1054844	146.153	ug/l 99
34) Benzene	6.14	78	3369938	146.513	ug/l 98
35) Methacrylonitrile	5.03	41	698537	141.420	ug/l 96
36) 1,2-Dichloroethane	6.18	62	1138460	142.360	ug/l 99
37) Trichloroethene	7.21	130	910574	147.188	ug/l 97
38) Methylcyclohexane	7.46	83	1320752	143.546	ug/l 99
39) 1,2-Dichloropropane	7.51	63	872800	146.466	ug/l 92
40) Dibromomethane	7.65	93	566358	144.041	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	1148884	150.836	ug/l	99
42) Vinyl Acetate	3.81	43	11492837	731.109	ug/l	99
43) Ethyl Acetate	4.83	43	1233806	138.048	ug/l	100
44) Isopropyl Acetate	6.43	43	2085284	143.869	ug/l	99
45) 1,4-Dioxane	7.74	88	374974	2375.797	ug/l	98
46) Methyl methacrylate	7.76	41	1043266	144.516	ug/l	99
47) n-amyl Acetate	10.89	43	2007195	156.829	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	1318092	154.700	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	1431241	152.741	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	857636	146.573	ug/l	99
51) Ethyl methacrylate	9.17	69	1472410	153.271	ug/l	99
52) 1,3-Dichloropropane	9.37	76	1467073	146.539	ug/l	99
53) Dibromochloromethane	9.58	129	955809	155.891	ug/l	99
54) 1,2-Dibromoethane	9.67	107	908413	146.601	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	3080487	749.330	ug/l	100
56) Bromoform	10.85	173	790529	162.625	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	6401220	679.618	ug/l	98
59) 2-Hexanone	9.49	43	4890572	663.419	ug/l	98
61) Tetrachloroethene	9.33	164	852079	148.445	ug/l	96
62) Toluene	8.78	91	3591041	141.315	ug/l	99
64) Chlorobenzene	10.14	112	2313948	144.874	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	874779	147.381	ug/l	100
66) Ethyl Benzene	10.25	91	4049535	144.887	ug/l	96
67) m/p-Xylenes	10.35	106	3128867	289.937	ug/l	97
68) o-Xylene	10.70	106	1551131	148.177	ug/l	98
69) Styrene	10.71	104	2711386	152.631	ug/l	99
70) Isopropylbenzene	11.01	105	3998473	145.997	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	1427959	145.744	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	1257396m	148.256	ug/l	
73) Bromobenzene	11.25	156	1089988	150.380	ug/l	100
74) n-propylbenzene	11.35	91	4636514	148.962	ug/l	97
75) 2-Chlorotoluene	11.42	91	2778525	149.467	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	3479064	150.794	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	485691	150.008	ug/l	85
78) 4-Chlorotoluene	11.51	91	3243248	152.192	ug/l	98
79) tert-butylbenzene	11.77	119	3484993	150.981	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	3475189	150.863	ug/l	99
81) sec-Butylbenzene	11.94	105	4022083	151.532	ug/l	98
82) p-Isopropyltoluene	12.06	119	3674839	151.067	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	1952705	153.428	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	1962694	155.156	ug/l	100
85) n-Butylbenzene	12.38	91	3289514	157.743	ug/l	99
86) Hexachloroethane	12.59	117	723385	162.912	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	1971897	155.052	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	301720	139.544	ug/l	95
89) 1,2,4-Trichlorobenzene	13.64	180	1347467	156.093	ug/l	99
90) Hexachlorobutadiene	13.77	225	607939	146.317	ug/l	98
91) Naphthalene	13.83	128	4020258	148.632	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	1348585	154.920	ug/l	99

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

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