

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032219\
 Data File : VX008334.D
 Acq On : 22 Mar 2019 12:37
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

Quant Time: Mar 22 15:34:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 22 13:03:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	29729	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	167161	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	146153	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	62265	30.65	ug/l	0.00	MMDadoda
Spiked Amount 30.000	Range 50 - 169	Recovery =	102.17%				
60) 4-Bromofluorobenzene	11.13	95	73407	30.86	ug/l	0.00	
Spiked Amount 30.000	Range 56 - 143	Recovery =	102.87%				
63) Toluene-d8	8.71	98	196190	29.79	ug/l	0.00	3/23/2019 9:33:51 AM
Spiked Amount 30.000	Range 66 - 137	Recovery =	99.30%				

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	245244	153.746	ug/l 99
3) Chloromethane	1.32	50	248838	152.573	ug/l 96
4) Vinyl Chloride	1.41	62	277373	150.895	ug/l 100
5) Bromomethane	1.64	94	589822	177.004	ug/l 100
6) Chloroethane	1.70	64	260398	199.323	ug/l 96
7) Trichlorofluoromethane	1.92	101	445512	152.249	ug/l 97
8) Diethyl Ether	2.19	74	174379	153.655	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.38	101	240551	148.642	ug/l 100
10) 1,1-Dichloroethene	2.37	96	243990	152.741	ug/l 98
11) Methyl Iodide	2.51	142	384286	159.143	ug/l 95
12) Methyl Acetate	2.78	43	268077	153.795	ug/l 99
13) Acrolein	2.30	56	217773	797.512	ug/l 98
14) Acrylonitrile	3.15	53	666111	770.037	ug/l 99
15) Acetone	2.45	58	221053	651.664	ug/l 99
16) Carbon Disulfide	2.57	76	671400	151.586	ug/l 100
17) Allyl chloride	2.73	41	370997	157.392	ug/l 98
18) Methylene Chloride	2.86	84	257396	149.686	ug/l 93
19) trans-1,2-Dichloroethene	3.17	96	262126	154.585	ug/l 96
20) Diisopropyl ether	3.86	45	753062	152.792	ug/l 95
21) 1,1-Dichloroethane	3.70	63	444196	152.601	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	300307	153.550	ug/l 96
23) tert-Butyl Alcohol	3.07	59	285242	812.250	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	798439	155.581	ug/l 98
25) Chloroform	5.21	83	468174	151.622	ug/l 97
26) Cyclohexane	5.59	56	394274	153.159	ug/l # 100
29) 1,1-Dichloropropene	5.80	75	348171	146.648	ug/l 99
30) 2-Butanone	4.68	43	950463	695.037	ug/l 97
31) 2,2-Dichloropropane	4.59	77	342006	153.002	ug/l 97
32) 1,1,1-Trichloroethane	5.50	97	417978	149.624	ug/l 99
33) Carbon Tetrachloride	5.79	117	383228	149.375	ug/l 99
34) Benzene	6.14	78	1035346	146.397	ug/l 97
35) Methacrylonitrile	5.05	41	190463	149.523	ug/l 98
36) 1,2-Dichloroethane	6.20	62	374619	143.714	ug/l 98
37) Trichloroethene	7.21	130	301117	144.814	ug/l 95
38) Methylcyclohexane	7.46	83	442350	148.661	ug/l 100
39) 1,2-Dichloropropane	7.51	63	263745	146.564	ug/l 99
40) Dibromomethane	7.66	93	194941	147.701	ug/l 96

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

41) Bromodichloromethane	7.90	83	378513	151.138	ug/l	100
42) Vinyl Acetate	3.82	43	3475326	756.109	ug/l	100
43) Ethyl Acetate	4.84	43	354396	146.735	ug/l #	82
44) Isopropyl Acetate	6.45	43	581292	153.020	ug/l	98
45) 1,4-Dioxane	7.74	88	142429	2980.926	ug/l	99
46) Methyl methacrylate	7.77	41	282227	151.412	ug/l	99
47) n-amyl Acetate	10.90	43	544817	167.280	ug/l	97
48) t-1,3-Dichloropropene	9.04	75	407960	162.699	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	442945	158.309	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	275425	145.261	ug/l	95
51) Ethyl methacrylate	9.18	69	436437	157.664	ug/l	99
52) 1,3-Dichloropropane	9.37	76	439194	144.431	ug/l	100
53) Dibromochloromethane	9.59	129	329078	153.965	ug/l	100
54) 1,2-Dibromoethane	9.67	107	304935	146.582	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	1055981	758.235	ug/l	99
56) Bromoform	10.86	173	276153	163.655	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	1871137	760.383	ug/l	97
59) 2-Hexanone	9.49	43	1472473	756.444	ug/l	98
61) Tetrachloroethene	9.34	164	277599	141.100	ug/l	99
62) Toluene	8.79	91	1147242	147.882	ug/l	99
64) Chlorobenzene	10.14	112	739585	147.877	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	289543	151.580	ug/l	99
66) Ethyl Benzene	10.25	91	1260633	150.256	ug/l	99
67) m/p-Xylenes	10.36	106	1012635	303.681	ug/l	99
68) o-Xylene	10.70	106	488850	152.609	ug/l	100
69) Styrene	10.71	104	847690	156.747	ug/l	97
70) Isopropylbenzene	11.02	105	1284881	152.455	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	434238	151.098	ug/l	99
72) 1,1,2,3-Trichloropropane	11.30	75	341037m	142.172	ug/l	
73) Bromobenzene	11.26	156	355335	152.385	ug/l	97
74) n-propylbenzene	11.36	91	1465882	156.042	ug/l	100
75) 2-Chlorotoluene	11.42	91	857545	152.855	ug/l	97
76) 1,3,5-Trimethylbenzene	11.51	105	1118408	155.338	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	148584	181.174	ug/l	89
78) 4-Chlorotoluene	11.51	91	1036051	156.913	ug/l	97
79) tert-butylbenzene	12.07	119	1200916	158.570	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	1108089	154.882	ug/l	99
81) sec-Butylbenzene	11.94	105	1260913	153.541	ug/l	99
82) p-Isopropyltoluene	12.07	119	1200916	158.570	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	636311	157.220	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	642618	159.441	ug/l	98
85) n-Butylbenzene	12.39	91	1090274	167.361	ug/l	100
86) Hexachloroethane	12.60	117	213429	163.514	ug/l	91
87) 1,2-Dichlorobenzene	12.39	146	626112	156.865	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	107935	164.064	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	472659	167.318	ug/l	99
90) Hexachlorobutadiene	13.78	225	228808	160.897	ug/l	98
91) Naphthalene	13.83	128	1424427	167.888	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	468630	164.095	ug/l	99

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

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