

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX043020\
 Data File : VX015991.D
 Acq On : 30 Apr 2020 12:02
 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

MMDadoda
 5/4/2020 3:10:16 PM

Quant Time: Apr 30 12:46:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 30 12:23:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	50627	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	278704	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	264040	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	113293	28.70	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.67%
60) 4-Bromofluorobenzene	11.12	95	136886	30.62	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.07%
63) Toluene-d8	8.70	98	332988	29.64	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	546046	182.725	ug/l 99
3) Chloromethane	1.31	50	516003	158.088	ug/l 100
4) Vinyl Chloride	1.39	62	571860	171.783	ug/l 99
5) Bromomethane	1.62	94	287225	153.385	ug/l 99
6) Chloroethane	1.70	64	378956	179.474	ug/l 98
7) Trichlorofluoromethane	1.90	101	827224	174.625	ug/l 99
8) Diethyl Ether	2.17	74	331735	181.447	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.36	101	419383	150.936	ug/l 99
10) 1,1-Dichloroethene	2.35	96	431852	153.426	ug/l 98
11) Methyl Iodide	2.49	142	649671	173.811	ug/l 98
12) Methyl Acetate	2.75	43	783738	174.566	ug/l 100
13) Acrolein	2.28	56	322165	683.502	ug/l 99
14) Acrylonitrile	3.12	53	1444289	816.123	ug/l 100
15) Acetone	2.42	58	375410	824.882	ug/l 98
16) Carbon Disulfide	2.54	76	1298674	155.567	ug/l 98
17) Allyl chloride	2.70	41	804523	136.037	ug/l 95
18) Methylene Chloride	2.83	84	483561	153.520	ug/l 98
19) trans-1,2-Dichloroethene	3.14	96	479514	157.230	ug/l 98
20) Diisopropyl ether	3.83	45	1570421	145.576	ug/l 97
21) 1,1-Dichloroethane	3.67	63	862828	150.803	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	542770	155.638	ug/l 98
23) tert-Butyl Alcohol	3.04	59	709703	818.570	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	1580138	153.982	ug/l 97
25) Chloroform	5.18	83	876322	153.116	ug/l 96
26) Cyclohexane	5.55	56	786873	145.346	ug/l # 98
29) 1,1-Dichloropropene	5.77	75	671090	157.903	ug/l 99
30) 2-Butanone	4.64	43	2029234	801.584	ug/l 98
31) 2,2-Dichloropropane	4.55	77	783214	153.245	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	806676	156.220	ug/l 99
33) Carbon Tetrachloride	5.76	117	716177	153.050	ug/l 100
34) Benzene	6.12	78	1945324	158.176	ug/l 99
35) Methacrylonitrile	5.01	41	435888	155.492	ug/l 98
36) 1,2-Dichloroethane	6.17	62	732917	155.990	ug/l 100
37) Trichloroethene	7.19	130	632408	163.097	ug/l 99
38) Methylcyclohexane	7.44	83	814516	157.005	ug/l 99
39) 1,2-Dichloropropane	7.49	63	496819	153.175	ug/l 97
40) Dibromomethane	7.64	93	347247	157.725	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	732265	157.076	ug/l	99
42) Vinyl Acetate	3.79	43	6630753	739.424	ug/l	99
43) Ethyl Acetate	4.80	43	794188	145.597	ug/l	100
44) Isopropyl Acetate	6.42	43	1297370	151.558	ug/l	99
45) 1,4-Dioxane	7.72	88	277412	3357.999	ug/l	98
46) Methyl methacrylate	7.75	41	628925	150.193	ug/l	96
47) n-amyl Acetate	10.88	43	1176490	158.143	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	866527	160.764	ug/l	100
49) cis-1,3-Dichloropropene	8.42	75	880080	157.978	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	505522	162.021	ug/l	99
51) Ethyl methacrylate	9.17	69	870273	165.169	ug/l	95
52) 1,3-Dichloropropane	9.35	76	851848	157.884	ug/l	100
53) Dibromochloromethane	9.57	129	599784	160.427	ug/l	100
54) 1,2-Dibromoethane	9.66	107	556962	164.666	ug/l	100
55) 2-Chloroethyl vinyl ether	8.30	63	2190337	850.594	ug/l	99
56) Bromoform	10.84	173	474479	159.594	ug/l	98
58) 4-Methyl-2-Pentanone	8.63	43	4011749	798.766	ug/l	97
59) 2-Hexanone	9.48	43	3128296	813.142	ug/l	97
61) Tetrachloroethene	9.32	164	744311	180.587	ug/l	98
62) Toluene	8.77	91	2095437	155.054	ug/l	98
64) Chlorobenzene	10.12	112	1361005	156.669	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	530413	153.413	ug/l	98
66) Ethyl Benzene	10.24	91	2446837	159.115	ug/l	100
67) m/p-Xylenes	10.35	106	1885918	322.193	ug/l	96
68) o-Xylene	10.68	106	921408	162.334	ug/l	97
69) Styrene	10.70	104	1618383	164.937	ug/l	100
70) Isopropylbenzene	11.01	105	2450887	161.716	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	598339	149.316	ug/l	98
72) 1,2,3-Trichloropropane	11.28	75	724037m	157.040	ug/l	
73) Bromobenzene	11.24	156	624944	156.397	ug/l	99
74) n-propylbenzene	11.35	91	2823920	161.949	ug/l	99
75) 2-Chlorotoluene	11.41	91	1667340	159.095	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	2123235	164.300	ug/l	100
77) t-1,4-Dichloro-2-butene	11.06	75	338454	171.157	ug/l	96
78) 4-Chlorotoluene	11.49	91	2010390	164.676	ug/l	100
79) tert-butylbenzene	11.76	119	1808581	148.094	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	2098270	161.201	ug/l	99
81) sec-Butylbenzene	11.93	105	2438155	164.008	ug/l	100
82) p-Isopropyltoluene	12.05	119	2247237	161.089	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	1127401	157.054	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	1124514	157.460	ug/l	100
85) n-Butylbenzene	12.37	91	2092987	167.644	ug/l	100
86) Hexachloroethane	12.58	117	419105	161.349	ug/l	100
87) 1,2-Dichlorobenzene	12.38	146	1081439	154.947	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	201765	162.340	ug/l	97
89) 1,2,4-Trichlorobenzene	13.63	180	799852	145.946	ug/l	99
90) Hexachlorobutadiene	13.77	225	350032	127.015	ug/l	97
91) Naphthalene	13.82	128	2578040	159.225	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	784308	146.435	ug/l	96

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

