

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\
 Data File : VN054020.D
 Acq On : 1 Mar 2019 10:50
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 10:23:29 AM

Quant Time: Mar 01 11:12:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 01 11:00:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	126553	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	693916	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	622815	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	260119	29.27	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.57%
60) 4-Bromofluorobenzene	12.40	95	297457	31.52	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	105.07%
63) Toluene-d8	10.09	98	881775	29.29	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	1017842	142.248	ug/l 99
3) Chloromethane	2.06	50	1394132	146.473	ug/l 99
4) Vinyl Chloride	2.19	62	1384574	145.269	ug/l 97
5) Bromomethane	2.56	94	841453	143.516	ug/l 98
6) Chloroethane	2.70	64	807352	143.872	ug/l 100
7) Trichlorofluoromethane	3.02	101	1667356	143.983	ug/l 100
8) Diethyl Ether	3.41	74	656800	150.811	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	1052120	141.318	ug/l 98
10) 1,1-Dichloroethene	3.74	96	1024392	146.852	ug/l 98
11) Methyl Iodide	3.95	142	1623852	156.938	ug/l 98
12) Methyl Acetate	4.32	43	883545	150.223	ug/l 97
13) Acrolein	3.60	56	514635	919.026	ug/l 99
14) Acrylonitrile	4.98	53	2148848	760.292	ug/l 98
15) Acetone	3.81	58	540957	664.148	ug/l 97
16) Carbon Disulfide	4.05	76	3402148	150.321	ug/l 100
17) Allyl chloride	4.32	41	1843450	149.429	ug/l 99
18) Methylene Chloride	4.55	84	1164051	144.511	ug/l 99
19) trans-1,2-Dichloroethene	5.04	96	1107355	146.326	ug/l 98
20) Diisopropyl ether	5.95	45	3841813	155.674	ug/l 96
21) 1,1-Dichloroethane	5.85	63	2139021	146.762	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	1263912	150.024	ug/l 98
23) tert-Butyl Alcohol	4.78	59	398655	787.496	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	2939657	155.668	ug/l 99
25) Chloroform	7.37	83	2043809	145.337	ug/l 100
26) Cyclohexane	7.65	56	2052135	154.712	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	1660537	152.773	ug/l 99
30) 2-Butanone	6.83	43	2586450	753.656	ug/l 99
31) 2,2-Dichloropropane	6.82	77	1595655	148.880	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	1740795	148.898	ug/l 98
33) Carbon Tetrachloride	7.77	117	1552699	149.998	ug/l 99
34) Benzene	8.04	78	4846036	150.017	ug/l # 92
35) Methacrylonitrile	7.17	41	576790	150.311	ug/l 97
36) 1,2-Dichloroethane	8.12	62	1500883	144.692	ug/l 100
37) Trichloroethene	8.83	130	1250047	148.244	ug/l 98
38) Methylcyclohexane	9.08	83	2037925	160.621	ug/l 99
39) 1,2-Dichloropropane	9.12	63	1330346	187.929	ug/l 99
40) Dibromomethane	9.21	93	745720	182.781	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	1614711	144.332	ug/l	98
42) Vinyl Acetate	5.89	43	14311415	807.193	ug/l	99
43) Ethyl Acetate	6.92	43	1129507	157.131	ug/l #	71
44) Isopropyl Acetate	8.16	43	1991129	157.857	ug/l #	83
45) 1,4-Dioxane	9.20	88	238316	3588.802	ug/l	95
46) Methyl methacrylate	9.20	41	1016819	172.760	ug/l	97
47) n-amyl Acetate	12.07	43	1659267	188.195	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	1763018	167.069	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	1998920	159.783	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	1045348	146.138	ug/l	99
51) Ethyl methacrylate	10.43	69	1455783	175.772	ug/l	99
52) 1,3-Dichloropropane	10.71	76	1836400	150.448	ug/l	99
53) Dibromochloromethane	10.90	129	1209974	155.967	ug/l	98
54) 1,2-Dibromoethane	11.00	107	1053615	156.846	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	3450054	903.303	ug/l	100
56) Bromoform	12.13	173	846383	166.628	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	5450671	783.643	ug/l	99
59) 2-Hexanone	10.75	43	3624226	801.214	ug/l	100
61) Tetrachloroethene	10.63	164	1179201	133.130	ug/l	98
62) Toluene	10.16	91	5131549	146.797	ug/l	100
64) Chlorobenzene	11.43	112	3161440	148.949	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	1158894	148.640	ug/l	99
66) Ethyl Benzene	11.51	91	5613230	155.387	ug/l	99
67) m/p-Xylenes	11.62	106	4187046	307.110	ug/l	100
68) o-Xylene	11.95	106	2040175	154.581	ug/l	100
69) Styrene	11.96	104	3362724	162.619	ug/l	100
70) Isopropylbenzene	12.25	105	5307338	152.867	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	1305744	152.247	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	975396m	149.170	ug/l	
73) Bromobenzene	12.53	156	1343012	153.571	ug/l	99
74) n-propylbenzene	12.59	91	6432040	156.284	ug/l	100
75) 2-Chlorotoluene	12.67	91	3714540	153.575	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	4536360	154.604	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	403464	180.691	ug/l	94
78) 4-Chlorotoluene	12.77	91	3793902	157.588	ug/l	99
79) tert-butylbenzene	12.99	119	3956154	153.681	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	4575188	157.209	ug/l	100
81) sec-Butylbenzene	13.17	105	5392677	152.503	ug/l	99
82) p-Isopropyltoluene	13.29	119	4735740	157.989	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	2424344	158.116	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	2361979	162.222	ug/l	99
85) n-Butylbenzene	13.62	91	4357465	169.276	ug/l	100
86) Hexachloroethane	13.87	117	895701	160.318	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	2278917	152.025	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	198042	161.581	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	1410437	196.043	ug/l	99
90) Hexachlorobutadiene	15.01	225	785981	139.726	ug/l	99
91) Naphthalene	15.13	128	3086300	220.342	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	1342853	186.818	ug/l	98

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

