

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030419\
 Data File : VN054059.D
 Acq On : 4 Mar 2019 10:53
 Operator : JC/SP
 Sample : K1560-09 MDL 2.5ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 10:29:34 AM

Quant Time: Mar 06 09:58:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 00:48:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	120850	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	636467	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	532081	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	258237	30.43	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.43%
60) 4-Bromofluorobenzene	12.40	95	223520	27.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.50%
63) Toluene-d8	10.09	98	781689	30.54	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.85	85	19087	2.793	ug/l	98
3) Chloromethane	2.06	50	26445	2.910	ug/l	96
4) Vinyl Chloride	2.19	62	24832	2.728	ug/l	96
5) Bromomethane	2.57	94	16685	2.980	ug/l	95
6) Chloroethane	2.71	64	15465	2.886	ug/l	94
7) Trichlorofluoromethane	3.02	101	30677	2.774	ug/l	93
8) Diethyl Ether	3.41	74	10992	2.643	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	3.75	101	18859	2.653	ug/l	96
10) 1,1-Dichloroethene	3.74	96	18339	2.753	ug/l	99
11) Methyl Iodide	3.95	142	19980	2.022	ug/l	98
12) Methyl Acetate	4.33	43	15416	2.745	ug/l	98
13) Acrolein	3.61	56	7401	34.372	ug/l	99
14) Acrylonitrile	4.99	53	32524	12.050	ug/l #	89
15) Acetone	3.81	58	10698	13.754	ug/l	98
16) Carbon Disulfide	4.05	76	58447	2.704	ug/l	99
17) Allyl chloride	4.32	41	27850	2.364	ug/l	98
18) Methylene Chloride	4.55	84	24849	3.230	ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	19044m	2.635	ug/l	
20) Diisopropyl ether	5.95	45	51403	2.181	ug/l	94
21) 1,1-Dichloroethane	5.85	63	37299	2.680	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	20859	2.593	ug/l	95
23) tert-Butyl Alcohol	4.78	59	5835m	12.070	ug/l	
24) Methyl tert-Butyl Ether	5.04	73	43447	2.409	ug/l	99
25) Chloroform	7.37	83	36597	2.725	ug/l	98
26) Cyclohexane	7.65	56	30141	2.380	ug/l #	97
29) 1,1-Dichloropropene	7.79	75	24606	2.468	ug/l	99
30) 2-Butanone	6.84	43	38248	12.151	ug/l	98
31) 2,2-Dichloropropane	6.83	77	27009	2.747	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	29179	2.721	ug/l	96
33) Carbon Tetrachloride	7.77	117	26439	2.785	ug/l	93
34) Benzene	8.04	78	77854	2.628	ug/l #	30
35) Methacrylonitrile	7.19	41	9061m	2.574	ug/l	
36) 1,2-Dichloroethane	8.12	62	27722	2.914	ug/l #	86
37) Trichloroethene	8.83	130	20611	2.665	ug/l	94
38) Methylcyclohexane	9.08	83	28261	2.402	ug/l	99
39) 1,2-Dichloropropane	9.12	63	19799	2.439	ug/l	99
40) Dibromomethane	9.21	93	12382	2.661	ug/l	99

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

41) Bromodichloromethane	9.40	83	26363	2.670	ug/l	93
42) Vinyl Acetate	5.90	43	182886	11.246	ug/l #	89
43) Ethyl Acetate	6.93	43	18334m	2.781	ug/l	
44) Isopropyl Acetate	8.17	43	29206	2.524	ug/l	94
45) 1,4-Dioxane	9.20	88	3138	49.575	ug/l	88
46) Methyl methacrylate	9.20	41	11689	2.103	ug/l	91
47) n-amyl Acetate	12.07	43	15034	1.769	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	22396	2.262	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	27117	2.333	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	17421	2.669	ug/l	94
51) Ethyl methacrylate	10.43	69	15942	2.029	ug/l	87
52) 1,3-Dichloropropane	10.71	76	28327	2.529	ug/l	100
53) Dibromochloromethane	10.90	129	17447	2.433	ug/l	97
54) 1,2-Dibromoethane	11.00	107	15879	2.554	ug/l	95
55) 2-Chloroethyl vinyl ether	9.70	63	35690	9.788	ug/l	98
56) Bromoform	12.13	173	11507	2.416	ug/l #	91
58) 4-Methyl-2-Pentanone	9.98	43	70592	11.774	ug/l	94
59) 2-Hexanone	10.75	43	46351	11.833	ug/l	93
61) Tetrachloroethene	10.63	164	20537	2.776	ug/l	97
62) Toluene	10.16	91	82342	2.769	ug/l	99
64) Chlorobenzene	11.43	112	48715	2.690	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	18100	2.722	ug/l	99
66) Ethyl Benzene	11.51	91	77481	2.493	ug/l	98
67) m/p-Xylenes	11.62	106	56025	4.787	ug/l	98
68) o-Xylene	11.95	106	27415	2.417	ug/l	99
69) Styrene	11.96	104	39631	2.206	ug/l	99
70) Isopropylbenzene	12.25	105	72957	2.450	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	20008	2.723	ug/l	94
72) 1,2,3-Trichloropropane	12.55	75	15982m	2.864	ug/l	
73) Bromobenzene	12.53	156	18805	2.505	ug/l	98
74) n-propylbenzene	12.59	91	81259	2.292	ug/l	98
75) 2-Chlorotoluene	12.67	91	52536	2.530	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	58147	2.305	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	4139	2.084	ug/l	92
78) 4-Chlorotoluene	12.77	91	46423	2.234	ug/l	98
79) tert-butylbenzene	12.99	119	53875	2.438	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	54178	2.158	ug/l	99
81) sec-Butylbenzene	13.17	105	72062	2.377	ug/l	95
82) p-Isopropyltoluene	13.29	119	55154	2.131	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	28858	2.179	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	26957	2.132	ug/l	95
85) n-Butylbenzene	13.61	91	41606	1.844	ug/l	97
86) Hexachloroethane	13.87	117	12467	2.576	ug/l	97
87) 1,2-Dichlorobenzene	13.36	146	26957	2.099	ug/l	94
88) 1,2-Dibromo-3-Chloropropan	14.27	75	2371	2.230	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	8060	1.235	ug/l	97
90) Hexachlorobutadiene	15.01	225	11273	2.378	ug/l	96
91) Naphthalene	15.13	128	13729	1.049	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	8533	1.325	ug/l	95

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

