

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\
 Data File : VN054024.D
 Acq On : 1 Mar 2019 12:51
 Operator : JC/SP
 Sample : K1560-07 LOD MDL 2.5ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 LOD-MDL-WATER-01-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 10:23:39 AM

Quant Time: Mar 06 10:14:54 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	7.20	128	114544	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	612364	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	513168	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	244206	30.36	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.20%
60) 4-Bromofluorobenzene	12.40	95	208833	26.59	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.63%
63) Toluene-d8	10.09	98	751423	30.43	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	17404	2.687 ug/l	96
3) Chloromethane	2.06	50	23939	2.779 ug/l	92
4) Vinyl Chloride	2.19	62	23370	2.709 ug/l	96
5) Bromomethane	2.57	94	16411	3.092 ug/l	98
6) Chloroethane	2.71	64	14005	2.757 ug/l	97
7) Trichlorofluoromethane	3.02	101	29295	2.795 ug/l	92
8) Diethyl Ether	3.41	74	9876	2.505 ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.77	101	18399	2.730 ug/l	89
10) 1,1-Dichloroethene	3.74	96	15881	2.515 ug/l	91
11) Methyl Iodide	3.96	142	19646	2.098 ug/l	97
12) Methyl Acetate	4.33	43	15755	2.960 ug/l	91
13) Acrolein	3.61	56	8213	36.214 ug/l	94
14) Acrylonitrile	4.99	53	28584	11.174 ug/l	92
15) Acetone	3.82	58	9343	12.673 ug/l	99
16) Carbon Disulfide	4.06	76	54706	2.671 ug/l	99
17) Allyl chloride	4.33	41	25711	2.303 ug/l	97
18) Methylene Chloride	4.55	84	21582	2.960 ug/l	91
19) trans-1,2-Dichloroethene	5.05	96	18377	2.683 ug/l	86
20) Diisopropyl ether	5.96	45	50290	2.251 ug/l	94
21) 1,1-Dichloroethane	5.85	63	34706	2.631 ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	19588	2.569 ug/l	98
23) tert-Butyl Alcohol	4.76	59	6079m	13.267 ug/l	
24) Methyl tert-Butyl Ether	5.04	73	40065	2.344 ug/l #	79
25) Chloroform	7.37	83	33850	2.659 ug/l	99
26) Cyclohexane	7.65	56	29161	2.429 ug/l #	97
29) 1,1-Dichloropropene	7.79	75	22616	2.358 ug/l	98
30) 2-Butanone	6.84	43	34532	11.402 ug/l #	81
31) 2,2-Dichloropropane	6.83	77	25085	2.652 ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	27330	2.649 ug/l	99
33) Carbon Tetrachloride	7.77	117	23783	2.604 ug/l	98
34) Benzene	8.04	78	74124	2.600 ug/l #	23
35) Methacrylonitrile	7.18	41	6984m	2.062 ug/l	
36) 1,2-Dichloroethane	8.12	62	25837	2.823 ug/l	96
37) Trichloroethene	8.84	130	19895	2.674 ug/l	93
38) Methylcyclohexane	9.08	83	27461	2.426 ug/l	95
39) 1,2-Dichloropropane	9.12	63	19929	2.552 ug/l	97
40) Dibromomethane	9.21	93	11261	2.515 ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	24350	2.563	ug/l	100
42) Vinyl Acetate	5.90	43	173092	11.063	ug/l	100
43) Ethyl Acetate	6.94	43	16423m	2.589	ug/l	
44) Isopropyl Acetate	8.17	43	30688m	2.757	ug/l	
45) 1,4-Dioxane	9.20	88	2772	45.516	ug/l #	85
46) Methyl methacrylate	9.20	41	11305m	2.114	ug/l	
47) n-amyl Acetate	12.07	43	14275	1.746	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	21975	2.307	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	24969	2.233	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	15636	2.490	ug/l	96
51) Ethyl methacrylate	10.43	69	15551	2.057	ug/l	97
52) 1,3-Dichloropropane	10.71	76	28316	2.627	ug/l	96
53) Dibromochloromethane	10.90	129	16360	2.371	ug/l	94
54) 1,2-Dibromoethane	11.01	107	14199	2.374	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	31569	8.998	ug/l	99
56) Bromoform	12.13	173	10454	2.282	ug/l #	96
58) 4-Methyl-2-Pentanone	9.99	43	65074	11.254	ug/l	99
59) 2-Hexanone	10.75	43	40691	10.771	ug/l	97
61) Tetrachloroethene	10.63	164	18619	2.610	ug/l	96
62) Toluene	10.16	91	77237	2.693	ug/l	96
64) Chlorobenzene	11.44	112	44083	2.524	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	16801	2.620	ug/l	99
66) Ethyl Benzene	11.51	91	72525	2.419	ug/l	98
67) m/p-Xylenes	11.62	106	53065	4.702	ug/l	99
68) o-Xylene	11.95	106	25836	2.361	ug/l	99
69) Styrene	11.96	104	35976	2.077	ug/l	98
70) Isopropylbenzene	12.25	105	68569	2.388	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	18030	2.544	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	14940m	2.776	ug/l	
73) Bromobenzene	12.53	156	17382	2.401	ug/l	99
74) n-propylbenzene	12.59	91	76360	2.233	ug/l	99
75) 2-Chlorotoluene	12.67	91	49216	2.458	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	54157	2.226	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	3714	1.939	ug/l	94
78) 4-Chlorotoluene	12.77	91	43405	2.166	ug/l	98
79) tert-butylbenzene	12.99	119	51301	2.407	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	50075	2.068	ug/l	100
81) sec-Butylbenzene	13.17	105	64674	2.212	ug/l	100
82) p-Isopropyltoluene	13.29	119	52427	2.100	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	26192	2.051	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	25112	2.060	ug/l	96
85) n-Butylbenzene	13.62	91	37631	1.730	ug/l	95
86) Hexachloroethane	13.88	117	11965	2.564	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	26582	2.146	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	2282	2.225	ug/l #	76
89) 1,2,4-Trichlorobenzene	14.91	180	7031	1.117	ug/l	95
90) Hexachlorobutadiene	15.01	225	10827	2.368	ug/l	99
91) Naphthalene	15.13	128	14415	1.142	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	8931	1.437	ug/l	92

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

