

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051420\
 Data File : VN061401.D
 Acq On : 14 May 2020 18:30
 Operator : JC/MD
 Sample : L2182-07 2.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 LOD-MDL-WATER-01-QT2-2020

Manual Integrations
 APPROVED

MMDadoda
 5/15/2020 2:11:00 PM

Quant Time: May 15 07:23:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N051420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 14 16:04:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	17746	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	103871	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	91846	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	49440	31.11	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.70%
60) 4-Bromofluorobenzene	12.38	95	44967	28.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.60%
63) Toluene-d8	10.06	98	131848	31.00	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	1891	2.340 ug/l	85
3) Chloromethane	2.03	50	4215	2.853 ug/l	96
4) Vinyl Chloride	2.16	62	5407	2.730 ug/l	96
5) Bromomethane	2.54	94	3721	3.699 ug/l	89
6) Chloroethane	2.67	64	3650	2.724 ug/l	98
7) Trichlorofluoromethane	2.98	101	5605	2.644 ug/l	96
8) Diethyl Ether	3.37	74	1637	2.428 ug/l	74
9) 1,1,2-Trichlorotrifluoroet	3.72	101	2331	2.575 ug/l	93
10) 1,1-Dichloroethene	3.70	96	2543	2.668 ug/l	82
11) Methyl Iodide	3.91	142	2969	2.878 ug/l	92
12) Methyl Acetate	4.28	43	2968	2.564 ug/l #	53
13) Acrolein	3.58	56	2883m	14.791 ug/l	
14) Acrylonitrile	4.94	53	7234	13.313 ug/l #	74
15) Acetone	3.77	58	1834m	14.055 ug/l	
16) Carbon Disulfide	4.01	76	8785	3.279 ug/l	99
17) Allyl chloride	4.28	41	5323m	2.774 ug/l	
18) Methylene Chloride	4.50	84	2991m	2.600 ug/l	
19) trans-1,2-Dichloroethene	5.00	96	3132	2.761 ug/l	86
20) Diisopropyl ether	5.90	45	11143	2.495 ug/l	98
21) 1,1-Dichloroethane	5.80	63	6051	2.594 ug/l #	92
22) cis-1,2-Dichloroethene	6.79	96	3282	2.467 ug/l	90
23) tert-Butyl Alcohol	4.73	59	2780m	15.960 ug/l	
24) Methyl tert-Butyl Ether	4.99	73	9956	2.574 ug/l #	67
25) Chloroform	7.33	83	5449	2.410 ug/l	99
26) Cyclohexane	7.61	56	5793	2.601 ug/l #	96
29) 1,1-Dichloropropene	7.75	75	4503	2.470 ug/l	97
30) 2-Butanone	6.80	43	9579	12.423 ug/l #	96
31) 2,2-Dichloropropane	6.77	77	5548	2.605 ug/l #	88
32) 1,1,1-Trichloroethane	7.53	97	5083	2.492 ug/l #	84
33) Carbon Tetrachloride	7.73	117	3222	2.058 ug/l	98
34) Benzene	8.00	78	12842	2.490 ug/l #	2
35) Methacrylonitrile	7.13	41	2073m	2.681 ug/l	
36) 1,2-Dichloroethane	8.09	62	4986	2.519 ug/l #	90
37) Trichloroethene	8.81	130	3122	2.459 ug/l	89
38) Methylcyclohexane	9.05	83	5562	2.542 ug/l	93
39) 1,2-Dichloropropane	9.09	63	3384	2.387 ug/l #	82
40) Dibromomethane	9.18	93	2283	2.607 ug/l	74

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	4492	2.365	ug/l	98
42) Vinyl Acetate	5.85	43	44641	12.192	ug/l	98
43) Ethyl Acetate	6.89	43	3181	1.931	ug/l	95
44) Isopropyl Acetate	8.13	43	7911	2.474	ug/l #	88
45) 1,4-Dioxane	9.17	88	874	69.259	ug/l #	73
46) Methyl methacrylate	9.17	41	3665	2.437	ug/l	95
47) n-amyl Acetate	12.05	43	6787	2.380	ug/l	94
48) t-1,3-Dichloropropene	10.35	75	5331	2.378	ug/l	99
49) cis-1,3-Dichloropropene	9.81	75	5663	2.388	ug/l	94
50) 1,1,2-Trichloroethane	10.54	97	2892	2.389	ug/l	96
51) Ethyl methacrylate	10.40	69	4824	2.313	ug/l	98
52) 1,3-Dichloropropane	10.68	76	5252	2.376	ug/l	97
53) Dibromochloromethane	10.88	129	2903	2.188	ug/l	98
54) 1,2-Dibromoethane	10.98	107	3057	2.447	ug/l	97
55) 2-Chloroethyl vinyl ether	9.66	63	10785	11.683	ug/l	100
56) Bromoform	12.10	173	1699	2.037	ug/l #	69
58) 4-Methyl-2-Pentanone	9.95	43	22112	13.212	ug/l	97
59) 2-Hexanone	10.72	43	15918	13.446	ug/l	99
61) Tetrachloroethene	10.60	164	2687	2.339	ug/l	87
62) Toluene	10.12	91	13375	2.511	ug/l	99
64) Chlorobenzene	11.41	112	8025	2.546	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.48	131	2564	2.226	ug/l	93
66) Ethyl Benzene	11.49	91	14747	2.413	ug/l	99
67) m/p-Xylenes	11.59	106	10923	4.840	ug/l	99
68) o-Xylene	11.92	106	4957	2.301	ug/l	94
69) Styrene	11.94	104	8018	2.163	ug/l	97
70) Isopropylbenzene	12.22	105	13803	2.365	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	4168	2.585	ug/l	98
72) 1,2,3-Trichloropropane	12.53	75	3656m	2.377	ug/l	
73) Bromobenzene	12.50	156	2826	2.331	ug/l	83
74) n-propylbenzene	12.57	91	16370	2.359	ug/l	99
75) 2-Chlorotoluene	12.65	91	9861	2.478	ug/l	92
76) 1,3,5-Trimethylbenzene	12.71	105	11093	2.265	ug/l	98
77) t-1,4-Dichloro-2-butene	12.28	75	1400	2.187	ug/l	94
78) 4-Chlorotoluene	12.75	91	9783	2.348	ug/l	93
79) tert-butylbenzene	12.97	119	9599	2.359	ug/l	96
80) 1,2,4-Trimethylbenzene	13.01	105	11298	2.311	ug/l	98
81) sec-Butylbenzene	13.15	105	13014	2.322	ug/l	98
82) p-Isopropyltoluene	13.27	119	11340	2.247	ug/l	96
83) 1,3-Dichlorobenzene	13.26	146	5128	2.276	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	5025	2.254	ug/l	99
85) n-Butylbenzene	13.59	91	11075	2.370	ug/l	99
86) Hexachloroethane	13.85	117	1614	2.294	ug/l	78
87) 1,2-Dichlorobenzene	13.63	146	4851	2.270	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.25	75	840	2.444	ug/l #	76
89) 1,2,4-Trichlorobenzene	14.89	180	2738	2.230	ug/l	94
90) Hexachlorobutadiene	14.99	225	1307	2.613	ug/l	95
91) Naphthalene	15.11	128	10795	2.795	ug/l	98
92) 1,2,3-Trichlorobenzene	15.29	180	3045	2.553	ug/l	98

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

