

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050721\
 Data File : VN067027.D
 Acq On : 6 May 2021 23:12
 Operator : JC/MD
 Sample : M2262-07 LOD
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-SOIL-01-QT2-202

Manual Integrations
 APPROVED

MMDadoda
 5/7/2021 6:23:42 PM

Quant Time: May 07 09:36:56 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050721W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 07 09:36:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.115	128	79190	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.520	114	386042	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.352	117	330472	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.954	65	208141	30.00	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.00%
60) 4-Bromofluorobenzene	12.353	95	124621	22.67	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	75.57%
63) Toluene-d8	10.030	98	516575	31.56	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	105.20%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.837	85	12213	2.25	ug/l	92
3) Chloromethane	2.035	50	20508	2.48	ug/l	98
4) Vinyl Chloride	2.164	62	18516	2.32	ug/l	94
5) Bromomethane	2.518	94	12039	2.70	ug/l	92
6) Chloroethane	2.665	64	11788	2.56	ug/l	96
7) Trichlorofluoromethane	2.977	101	23642	2.44	ug/l	95
8) Diethyl Ether	3.357	74	7713	2.35	ug/l	81
9) 1,1,2-Trichlorotrifluo...	3.698	101	11681m	2.49	ug/l	
10) 1,1-Dichloroethene	3.671	96	11012	2.44	ug/l	96
11) Methyl Iodide	3.888	142	13390	2.18	ug/l	97
12) Methyl Acetate	4.264	43	16645	2.60	ug/l	100
13) Acrolein	3.550	56	11305	10.80	ug/l	93
14) Acrylonitrile	4.897	53	29413m	11.61	ug/l	
15) Acetone	3.760	58	9541	12.98	ug/l	94
16) Carbon Disulfide	3.982	76	36899	2.47	ug/l	100
17) Allyl chloride	4.245	41	20566	2.34	ug/l	88
18) Methylene Chloride	4.476	84	18862	3.08	ug/l	87
19) trans-1,2-Dichloroethene	4.953	96	12329m	2.48	ug/l	
20) Diisopropyl ether	5.865	45	35966	2.21	ug/l #	83
21) 1,1-Dichloroethane	5.752	63	27005m	2.50	ug/l	
22) cis-1,2-Dichloroethene	6.737	96	13575m	2.39	ug/l	
23) tert-Butyl Alcohol	4.706	59	14612m	14.48	ug/l	
24) Methyl tert-Butyl Ether	4.964	73	34174m	2.29	ug/l	
25) Chloroform	7.292	83	25477	2.44	ug/l	98
26) Cyclohexane	7.579	56	16890m	2.25	ug/l	
29) 1,1-Dichloropropene	7.721	75	15599	2.31	ug/l	84
30) 2-Butanone	6.761	43	35828	11.07	ug/l #	56
31) 2,2-Dichloropropane	6.731	77	18898	2.32	ug/l #	90
32) 1,1,1-Trichloroethane	7.488	97	22117m	2.52	ug/l	
33) Carbon Tetrachloride	7.699	117	20202m	2.65	ug/l	
34) Benzene	7.970	78	54942	2.51	ug/l #	29
35) Methacrylonitrile	7.093	41	5477	1.81	ug/l	86
36) 1,2-Dichloroethane	8.051	62	20936	2.57	ug/l #	94
37) Trichloroethene	8.764	130	12304m	2.60	ug/l	
38) Methylcyclohexane	9.019	83	15265	2.27	ug/l #	88
39) 1,2-Dichloropropane	9.051	63	14808	2.44	ug/l	91
40) Dibromomethane	9.148	93	10103	2.69	ug/l	93
41) Bromodichloromethane	9.344	83	19685	2.48	ug/l	96
42) Vinyl Acetate	5.814	43	153673	11.01	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.857	43	21236m	2.78	ug/l	
44) Isopropyl Acetate	8.094	43	25510	2.20	ug/l #	65
45) 1,4-Dioxane	9.142	88	2937m	39.68	ug/l	
46) Methyl methacrylate	9.140	41	9880m	2.03	ug/l	
48) t-1,3-Dichloropropene	10.328	75	17242	2.12	ug/l	99
49) cis-1,3-Dichloropropene	9.778	75	20002	2.25	ug/l	96
50) 1,1,2-Trichloroethane	10.502	97	13042	2.51	ug/l	97
51) Ethyl methacrylate	10.379	69	11071m	1.63	ug/l	
52) 1,3-Dichloropropane	10.650	76	21238	2.36	ug/l	99
53) Dibromochloromethane	10.840	129	13681	2.40	ug/l	96
54) 1,2-Dibromoethane	10.950	107	11458	2.31	ug/l	99
55) 2-Chloroethyl vinyl ether	9.639	63	9135	7.03	ug/l #	78
56) Bromoform	12.084	173	7209	1.90	ug/l #	96
58) 4-Methyl-2-Pentanone	9.925	43	64929	10.49	ug/l	99
59) 2-Hexanone	10.709	43	21129m	5.79	ug/l	
61) Tetrachloroethene	10.577	164	11328	3.02	ug/l	93
62) Toluene	10.094	91	54936	2.69	ug/l	99
64) Chlorobenzene	11.374	112	29471	2.48	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.452	131	13038	2.74	ug/l	96
66) Ethyl Benzene	11.460	91	44203	2.14	ug/l	96
67) m/p-Xylenes	11.575	106	30213	3.89	ug/l	87
68) o-Xylene	11.897	106	15536	2.03	ug/l	97
69) Styrene	11.934	104	18761	1.59	ug/l #	56
70) Isopropylbenzene	12.200	105	38759	1.95	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.460	83	15338	2.12	ug/l #	96
72) 1,2,3-Trichloropropane	12.508	75	8825m	1.34	ug/l	
73) Bromobenzene	12.479	156	9074	1.89	ug/l	34
74) n-propylbenzene	12.548	91	35695	1.57	ug/l	88
75) 2-Chlorotoluene	12.626	91	21533	1.47	ug/l	82
76) 1,3,5-Trimethylbenzene	12.685	105	32381	1.84	ug/l	91
78) 4-Chlorotoluene	12.736	91	29535m	2.25	ug/l	
79) tert-butylbenzene	12.943	119	28337	1.90	ug/l	95
80) 1,2,4-Trimethylbenzene	12.996	105	25284	1.53	ug/l	54
81) sec-Butylbenzene	13.125	105	30971	1.57	ug/l	95
82) p-Isopropyltoluene	13.251	119	20375	1.30	ug/l	98
83) 1,3-Dichlorobenzene	13.251	146	11602m	1.46	ug/l	
84) 1,4-Dichlorobenzene	13.329	146	21132m	2.56	ug/l	
85) n-Butylbenzene	13.613	91	22685m	1.80	ug/l	
86) Hexachloroethane	13.817	117	7966	2.30	ug/l	98
87) 1,2-Dichlorobenzene	13.619	146	21560m	2.61	ug/l	
88) 1,2-Dibromo-3-Chloropr...	14.254	75	2634m	1.88	ug/l	
89) 1,2,4-Trichlorobenzene	14.879	180	8499m	2.04	ug/l	
90) Hexachlorobutadiene	14.954	225	6793	2.41	ug/l	95
91) Naphthalene	15.099	128	26470m	2.32	ug/l	
92) 1,2,3-Trichlorobenzene	15.271	180	11120m	2.55	ug/l	

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

