

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102220\
 Data File : VN064275.D
 Acq On : 23 Oct 2020 1:11
 Operator : JC/MD
 Sample : L4214-07 2.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Manual Integrations
 APPROVED

MMDadoda
 10/23/2020 3:36:39 PM

Quant Time: Oct 23 05:04:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 22 16:07:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	45373	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	265498	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	229617	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	131827	35.49	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	118.30%#
60) 4-Bromofluorobenzene	12.38	95	119627	29.07	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.90%
63) Toluene-d8	10.06	98	316879	30.48	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	5309	1.705 ug/l	98
3) Chloromethane	2.04	50	6734	2.111 ug/l	91
4) Vinyl Chloride	2.17	62	7070	2.253 ug/l	99
5) Bromomethane	2.53	94	5271	2.807 ug/l	84
6) Chloroethane	2.68	64	4239	2.319 ug/l	98
7) Trichlorofluoromethane	2.99	101	12268	2.435 ug/l	99
8) Diethyl Ether	3.38	74	3845	2.248 ug/l	77
9) 1,1,2-Trichlorotrifluoroet	3.72	101	4122	1.550 ug/l	76
10) 1,1-Dichloroethene	3.70	96	5889	2.275 ug/l	91
11) Methyl Iodide	3.92	142	7164	1.920 ug/l	95
12) Methyl Acetate	4.28	43	3880	1.422 ug/l	95
13) Acrolein	3.57	56	3544	11.878 ug/l #	72
14) Acrylonitrile	4.93	53	13540m	12.313 ug/l	
15) Acetone	3.79	58	3855	12.984 ug/l #	50
16) Carbon Disulfide	4.01	76	15710	2.122 ug/l #	93
17) Allyl chloride	4.28	41	12672m	2.632 ug/l	
18) Methylene Chloride	4.51	84	7298	2.465 ug/l #	91
19) trans-1,2-Dichloroethene	4.99	96	6708m	2.402 ug/l	
20) Diisopropyl ether	5.91	45	21985m	2.471 ug/l	
21) 1,1-Dichloroethane	5.79	63	13044m	2.402 ug/l	
22) cis-1,2-Dichloroethene	6.78	96	6334	1.940 ug/l #	73
23) tert-Butyl Alcohol	4.73	59	6012	11.820 ug/l #	100
24) Methyl tert-Butyl Ether	4.99	73	21041m	2.459 ug/l	
25) Chloroform	7.32	83	13788	2.443 ug/l	84
26) Cyclohexane	7.61	56	8987	2.087 ug/l #	79
29) 1,1-Dichloropropene	7.76	75	9351	2.121 ug/l	85
30) 2-Butanone	6.79	43	19251	10.588 ug/l #	82
31) 2,2-Dichloropropane	6.77	77	10698	1.911 ug/l #	66
32) 1,1,1-Trichloroethane	7.53	97	12221	2.175 ug/l #	56
33) Carbon Tetrachloride	7.73	117	11171	2.181 ug/l	99
34) Benzene	8.00	78	28825	2.348 ug/l #	17
35) Methacrylonitrile	7.12	41	5131m	2.573 ug/l	
36) 1,2-Dichloroethane	8.09	62	12059	2.428 ug/l #	95
37) Trichloroethene	8.80	130	7349	2.174 ug/l	81
38) Methylcyclohexane	9.05	83	8880	2.106 ug/l	97
39) 1,2-Dichloropropane	9.09	63	7614	2.324 ug/l #	84
40) Dibromomethane	9.17	93	5451	2.391 ug/l	73

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	11045	2.239	ug/l	99
42) Vinyl Acetate	5.85	43	95395	11.051	ug/l	99
43) Ethyl Acetate	6.88	43	9883m	2.489	ug/l	
44) Isopropyl Acetate	8.13	43	18651	2.446	ug/l #	74
45) 1,4-Dioxane	9.16	88	2050m	45.976	ug/l	
46) Methyl methacrylate	9.17	41	8846	2.445	ug/l	92
47) n-amyl Acetate	12.05	43	11346	1.678	ug/l #	85
48) t-1,3-Dichloropropene	10.35	75	11546	2.075	ug/l	95
49) cis-1,3-Dichloropropene	9.81	75	11559	2.010	ug/l	96
50) 1,1,2-Trichloroethane	10.53	97	6639	2.174	ug/l	94
51) Ethyl methacrylate	10.40	69	10094	2.090	ug/l	95
52) 1,3-Dichloropropane	10.68	76	10928	2.075	ug/l	85
53) Dibromochloromethane	10.87	129	8043	2.092	ug/l	100
54) 1,2-Dibromoethane	10.98	107	7317	2.254	ug/l	96
55) 2-Chloroethyl vinyl ether	9.66	63	25856	10.893	ug/l	97
56) Bromoform	12.10	173	4471	1.670	ug/l #	88
58) 4-Methyl-2-Pentanone	9.95	43	45992	11.820	ug/l	99
59) 2-Hexanone	10.72	43	32844	11.370	ug/l	98
61) Tetrachloroethene	10.60	164	8056	2.603	ug/l	93
62) Toluene	10.13	91	30795	2.346	ug/l	98
64) Chlorobenzene	11.41	112	19477	2.383	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.48	131	7607	2.375	ug/l	98
66) Ethyl Benzene	11.48	91	33436	2.215	ug/l	96
67) m/p-Xylenes	11.59	106	24654	4.392	ug/l	99
68) o-Xylene	11.92	106	11191	2.055	ug/l	91
69) Styrene	11.94	104	18701	2.029	ug/l	97
70) Isopropylbenzene	12.22	105	30850	2.145	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	8586	2.178	ug/l	96
72) 1,2,3-Trichloropropane	12.52	75	9399m	2.285	ug/l	
73) Bromobenzene	12.50	156	8164	2.354	ug/l	97
74) n-propylbenzene	12.56	91	34910	2.126	ug/l	99
75) 2-Chlorotoluene	12.65	91	22709	2.234	ug/l	97
76) 1,3,5-Trimethylbenzene	12.70	105	25173	2.057	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	2899	1.803	ug/l	97
78) 4-Chlorotoluene	12.75	91	20767	1.953	ug/l	96
79) tert-butylbenzene	12.97	119	20691	2.068	ug/l	97
80) 1,2,4-Trimethylbenzene	13.01	105	24791	1.995	ug/l	98
81) sec-Butylbenzene	13.14	105	26272	2.018	ug/l	98
82) p-Isopropyltoluene	13.26	119	22823	1.894	ug/l	95
83) 1,3-Dichlorobenzene	13.26	146	12510	2.012	ug/l	93
84) 1,4-Dichlorobenzene	13.33	146	12143	1.951	ug/l	99
85) n-Butylbenzene	13.59	91	18367	1.717	ug/l	97
86) Hexachloroethane	13.84	117	3891m	1.876	ug/l	
87) 1,2-Dichlorobenzene	13.63	146	12564	2.072	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.24	75	2151m	2.155	ug/l	
89) 1,2,4-Trichlorobenzene	14.88	180	6501	1.785	ug/l	87
90) Hexachlorobutadiene	14.98	225	2569	1.392	ug/l	71
91) Naphthalene	15.10	128	17266	1.564	ug/l	97
92) 1,2,3-Trichlorobenzene	15.28	180	5112	1.468	ug/l	94

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

