

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102620\
 Data File : VN064312.D
 Acq On : 26 Oct 2020 19:51
 Operator : JC/MD
 Sample : L4214-09 2.5PPB MDL
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Manual Integrations
 APPROVED

MMDadoda
 10/27/2020 2:21:25 PM

Quant Time: Oct 27 03:14:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102620W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 26 17:44:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	45820	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	257986	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	226705	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	128475	31.17	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.90%
60) 4-Bromofluorobenzene	12.38	95	116361	28.69	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.63%
63) Toluene-d8	10.06	98	309793	30.64	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	9734	2.597	ug/l 96
3) Chloromethane	2.04	50	8713	2.488	ug/l 99
4) Vinyl Chloride	2.16	62	8393	2.458	ug/l 95
5) Bromomethane	2.53	94	6344	3.011	ug/l 97
6) Chloroethane	2.67	64	5272	2.765	ug/l 97
7) Trichlorofluoromethane	2.98	101	13879	2.639	ug/l # 84
8) Diethyl Ether	3.38	74	4319	2.563	ug/l 69
9) 1,1,2-Trichlorotrifluoroet	3.71	101	6471m	2.415	ug/l
10) 1,1-Dichloroethene	3.69	96	6259	2.431	ug/l 83
11) Methyl Iodide	3.91	142	7005m	1.900	ug/l
12) Methyl Acetate	4.27	43	8018m	2.601	ug/l
13) Acrolein	3.57	56	3458m	16.983	ug/l
14) Acrylonitrile	4.95	53	16232m	12.105	ug/l
15) Acetone	3.78	58	4684m	12.699	ug/l
16) Carbon Disulfide	4.00	76	18554	2.428	ug/l 100
17) Allyl chloride	4.28	41	12147m	2.485	ug/l
18) Methylene Chloride	4.50	84	7791	2.657	ug/l # 77
19) trans-1,2-Dichloroethene	4.98	96	6412m	2.295	ug/l
20) Diisopropyl ether	5.91	45	23363	2.361	ug/l 96
21) 1,1-Dichloroethane	5.81	63	13390m	2.416	ug/l
22) cis-1,2-Dichloroethene	6.78	96	8524m	2.644	ug/l
23) tert-Butyl Alcohol	4.74	59	8327m	13.644	ug/l
24) Methyl tert-Butyl Ether	4.99	73	23672	2.434	ug/l # 81
25) Chloroform	7.33	83	15019	2.627	ug/l 97
26) Cyclohexane	7.61	56	11395	2.510	ug/l # 96
29) 1,1-Dichloropropene	7.75	75	9925	2.235	ug/l 88
30) 2-Butanone	6.78	43	23183	11.078	ug/l 97
31) 2,2-Dichloropropane	6.78	77	13098m	2.455	ug/l
32) 1,1,1-Trichloroethane	7.53	97	14088	2.534	ug/l # 83
33) Carbon Tetrachloride	7.72	117	12819	2.520	ug/l # 96
34) Benzene	8.00	78	27293	2.290	ug/l # 1
35) Methacrylonitrile	7.13	41	4628m	2.118	ug/l
36) 1,2-Dichloroethane	8.09	62	12982	2.452	ug/l # 97
37) Trichloroethene	8.80	130	8064	2.480	ug/l 91
38) Methylcyclohexane	9.05	83	10097	2.353	ug/l 94
39) 1,2-Dichloropropane	9.09	63	8017	2.491	ug/l 93
40) Dibromomethane	9.17	93	5489	2.458	ug/l 97

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

41) Bromodichloromethane	9.37	83	11281	2.339	ug/l #	93
42) Vinyl Acetate	5.85	43	99524m	11.129	ug/l	
43) Ethyl Acetate	6.88	43	8887	2.083	ug/l #	81
44) Isopropyl Acetate	8.13	43	18135	2.314	ug/l	99
45) 1,4-Dioxane	9.16	88	3245	53.682	ug/l #	64
46) Methyl methacrylate	9.17	41	9896m	2.587	ug/l	
47) n-amyl Acetate	12.05	43	13855	2.100	ug/l	98
48) t-1,3-Dichloropropene	10.35	75	11367m	2.089	ug/l	
49) cis-1,3-Dichloropropene	9.81	75	12032	2.170	ug/l	93
50) 1,1,2-Trichloroethane	10.53	97	7268	2.424	ug/l #	91
51) Ethyl methacrylate	10.40	69	9794	2.092	ug/l	91
52) 1,3-Dichloropropane	10.68	76	12341	2.344	ug/l	94
53) Dibromochloromethane	10.87	129	8446	2.306	ug/l	97
54) 1,2-Dibromoethane	10.97	107	7547	2.356	ug/l	95
55) 2-Chloroethyl vinyl ether	9.66	63	27248	11.692	ug/l	99
56) Bromoform	12.10	173	4922	1.875	ug/l #	82
58) 4-Methyl-2-Pentanone	9.95	43	51112	12.186	ug/l	98
59) 2-Hexanone	10.72	43	37210	11.873	ug/l	97
61) Tetrachloroethene	10.60	164	7883	2.607	ug/l	92
62) Toluene	10.12	91	31670	2.536	ug/l	98
64) Chlorobenzene	11.41	112	18936	2.432	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.48	131	6888	2.240	ug/l	73
66) Ethyl Benzene	11.48	91	33712	2.362	ug/l	100
67) m/p-Xylenes	11.59	106	25607	4.886	ug/l	93
68) o-Xylene	11.92	106	11591	2.249	ug/l	99
69) Styrene	11.94	104	17141	1.995	ug/l	89
70) Isopropylbenzene	12.23	105	30787	2.253	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.48	83	9289	2.385	ug/l	94
72) 1,2,3-Trichloropropane	12.52	75	10356m	2.497	ug/l	
73) Bromobenzene	12.50	156	7999	2.387	ug/l	84
74) n-propylbenzene	12.57	91	34628	2.223	ug/l	98
75) 2-Chlorotoluene	12.65	91	22847	2.372	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	26290	2.275	ug/l	95
77) t-1,4-Dichloro-2-butene	12.28	75	3431	2.216	ug/l	84
78) 4-Chlorotoluene	12.75	91	22026	2.185	ug/l	93
79) tert-butylbenzene	12.97	119	20499	2.152	ug/l	96
80) 1,2,4-Trimethylbenzene	13.01	105	26222	2.249	ug/l	91
81) sec-Butylbenzene	13.15	105	27174	2.198	ug/l	97
82) p-Isopropyltoluene	13.26	119	23561	2.081	ug/l	96
83) 1,3-Dichlorobenzene	13.26	146	12162	2.090	ug/l	95
84) 1,4-Dichlorobenzene	13.34	146	12412	2.124	ug/l	95
85) n-Butylbenzene	13.59	91	20011	2.026	ug/l	98
86) Hexachloroethane	13.84	117	4714	2.232	ug/l	70
87) 1,2-Dichlorobenzene	13.63	146	12127	2.116	ug/l	95
88) 1,2-Dibromo-3-Chloropropan	14.24	75	2311	2.348	ug/l #	69
89) 1,2,4-Trichlorobenzene	14.88	180	5956	1.834	ug/l	97
90) Hexachlorobutadiene	14.98	225	3758	2.150	ug/l	78
91) Naphthalene	15.10	128	16135	1.646	ug/l	98
92) 1,2,3-Trichlorobenzene	15.28	180	5790	1.846	ug/l	89

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

