

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102020\
 Data File : VN064197.D
 Acq On : 20 Oct 2020 15:55
 Operator : JC/MD
 Sample : L4214-07 2.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 10/23/2020 2:28:48 PM

Quant Time: Oct 21 05:48:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 20 11:51:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.14	128	49778	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	284136	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	251383	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	130785	32.09	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.97%
60) 4-Bromofluorobenzene	12.38	95	131162	29.12	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.07%
63) Toluene-d8	10.06	98	338300	29.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	7153	2.094 ug/l	87
3) Chloromethane	2.04	50	9162	2.618 ug/l	100
4) Vinyl Chloride	2.17	62	8254	2.397 ug/l #	87
5) Bromomethane	2.54	94	6779	3.291 ug/l	82
6) Chloroethane	2.67	64	5548	2.766 ug/l	99
7) Trichlorofluoromethane	2.98	101	15066	2.726 ug/l	99
8) Diethyl Ether	3.38	74	5978	3.185 ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.72	101	8440	2.893 ug/l	91
10) 1,1-Dichloroethene	3.69	96	7217	2.541 ug/l #	74
11) Methyl Iodide	3.92	142	9613m	2.348 ug/l	
12) Methyl Acetate	4.28	43	6429	2.147 ug/l #	89
13) Acrolein	3.57	56	3408	10.411 ug/l #	5
14) Acrylonitrile	4.93	53	17012m	14.101 ug/l	
15) Acetone	3.78	58	4671m	14.340 ug/l	
16) Carbon Disulfide	4.01	76	22340	2.750 ug/l	95
17) Allyl chloride	4.27	41	14270	2.702 ug/l	93
18) Methylene Chloride	4.51	84	9555	2.941 ug/l	94
19) trans-1,2-Dichloroethene	4.99	96	8251	2.693 ug/l	89
20) Diisopropyl ether	5.90	45	29550	3.028 ug/l	95
21) 1,1-Dichloroethane	5.80	63	17409	2.922 ug/l	96
22) cis-1,2-Dichloroethene	6.78	96	10246	2.861 ug/l #	54
23) tert-Butyl Alcohol	4.73	59	8740m	15.663 ug/l	
24) Methyl tert-Butyl Ether	4.99	73	27084m	2.886 ug/l	
25) Chloroform	7.32	83	17555m	2.835 ug/l	
26) Cyclohexane	7.62	56	13040m	2.760 ug/l	
29) 1,1-Dichloropropene	7.75	75	13968	2.960 ug/l	86
30) 2-Butanone	6.79	43	27994m	14.386 ug/l	
31) 2,2-Dichloropropane	6.77	77	16669	2.783 ug/l #	77
32) 1,1,1-Trichloroethane	7.52	97	16551m	2.753 ug/l	
33) Carbon Tetrachloride	7.74	117	16241m	2.963 ug/l	
34) Benzene	8.00	78	36184	2.754 ug/l #	34
35) Methacrylonitrile	7.12	41	4898	2.295 ug/l	81
36) 1,2-Dichloroethane	8.08	62	15529	2.922 ug/l	96
37) Trichloroethene	8.80	130	9496	2.625 ug/l	88
38) Methylcyclohexane	9.05	83	11657	2.583 ug/l	92
39) 1,2-Dichloropropane	9.09	63	9751	2.781 ug/l	93
40) Dibromomethane	9.18	93	7161	2.935 ug/l	94

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

41) Bromodichloromethane	9.37	83	15483	2.932	ug/l #	90
42) Vinyl Acetate	5.84	43	129060m	13.971	ug/l	
43) Ethyl Acetate	6.87	43	11369m	2.675	ug/l	
44) Isopropyl Acetate	8.13	43	27544m	3.376	ug/l	
45) 1,4-Dioxane	9.17	88	2339m	49.016	ug/l	
46) Methyl methacrylate	9.16	41	10826	2.796	ug/l	90
47) n-amyl Acetate	12.04	43	17923	2.476	ug/l	99
48) t-1,3-Dichloropropene	10.35	75	16220	2.724	ug/l	97
49) cis-1,3-Dichloropropene	9.81	75	17879	2.906	ug/l	93
50) 1,1,2-Trichloroethane	10.53	97	9243	2.828	ug/l #	93
51) Ethyl methacrylate	10.40	69	13791	2.668	ug/l	86
52) 1,3-Dichloropropane	10.68	76	15540	2.758	ug/l	100
53) Dibromochloromethane	10.87	129	10806	2.627	ug/l	96
54) 1,2-Dibromoethane	10.97	107	9373	2.698	ug/l	96
55) 2-Chloroethyl vinyl ether	9.66	63	29855	11.753	ug/l	99
56) Bromoform	12.10	173	7704	2.689	ug/l #	97
58) 4-Methyl-2-Pentanone	9.95	43	60367	14.171	ug/l	99
59) 2-Hexanone	10.72	43	43119	13.635	ug/l	100
61) Tetrachloroethene	10.60	164	10533	3.108	ug/l	97
62) Toluene	10.12	91	39879	2.775	ug/l	99
64) Chlorobenzene	11.41	112	24489	2.736	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.48	131	9393	2.679	ug/l	94
66) Ethyl Benzene	11.49	91	44691	2.705	ug/l	97
67) m/p-Xylenes	11.59	106	32713	5.324	ug/l	92
68) o-Xylene	11.92	106	15582	2.613	ug/l	96
69) Styrene	11.94	104	26880	2.664	ug/l	96
70) Isopropylbenzene	12.22	105	44340	2.816	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.48	83	10661	2.470	ug/l	82
72) 1,2,3-Trichloropropane	12.52	75	11249m	2.498	ug/l	
73) Bromobenzene	12.50	156	9488	2.498	ug/l	80
74) n-propylbenzene	12.57	91	45475	2.530	ug/l	100
75) 2-Chlorotoluene	12.65	91	32077	2.883	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	36559	2.728	ug/l	100
77) t-1,4-Dichloro-2-butene	12.28	75	4850	2.755	ug/l	89
78) 4-Chlorotoluene	12.75	91	29391	2.525	ug/l	97
79) tert-butylbenzene	12.97	119	29255	2.670	ug/l	96
80) 1,2,4-Trimethylbenzene	13.01	105	37862	2.783	ug/l	94
81) sec-Butylbenzene	13.14	105	37114	2.604	ug/l	97
82) p-Isopropyltoluene	13.26	119	34784	2.637	ug/l	98
83) 1,3-Dichlorobenzene	13.26	146	18159	2.668	ug/l	98
84) 1,4-Dichlorobenzene	13.34	146	17639	2.588	ug/l	98
85) n-Butylbenzene	13.59	91	29535	2.522	ug/l	98
86) Hexachloroethane	13.85	117	5752	2.533	ug/l	100
87) 1,2-Dichlorobenzene	13.63	146	17555	2.644	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.24	75	2882	2.637	ug/l	97
89) 1,2,4-Trichlorobenzene	14.88	180	9091	2.280	ug/l	97
90) Hexachlorobutadiene	14.98	225	4803	2.377	ug/l	90
91) Naphthalene	15.11	128	27394	2.267	ug/l	99
92) 1,2,3-Trichlorobenzene	15.29	180	8738	2.292	ug/l	94

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

