

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032622\
 Data File : VN071567.D
 Acq On : 26 Mar 2022 12:04
 Operator : JC\MD
 Sample : N1645-09 4PPB MDL
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT1-2022DL

Quant Time: Mar 28 01:43:06 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Mar 28 01:40:30 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/28/2022
 Supervised By : Mahesh Dadoda 03/28/2022

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

Internal Standards						
1) Bromochloromethane	7.657	128	128969	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	704044	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	624811	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.428	65	272744	30.016	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.067%			
60) 4-Bromofluorobenzene	12.727	95	263189	28.409	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.700%			
63) Toluene-d8	10.439	98	877062	30.923	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.067%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	27055	3.370	ug/l	97
3) Chloromethane	2.299	50	35240	3.725	ug/l	95
4) Vinyl Chloride	2.440	62	39222	3.615	ug/l	99
5) Bromomethane	2.846	94	27691	4.331	ug/l	99
6) Chloroethane	3.010	64	27621	3.975	ug/l	90
7) Trichlorofluoromethane	3.375	101	48228	3.812	ug/l	89
8) Diethyl Ether	3.822	74	19300	3.631	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.204	101	29590	3.906	ug/l #	66
10) 1,1-Dichloroethene	4.181	96	27994	3.747	ug/l	95
11) Methyl Iodide	4.416	142	39002	3.562	ug/l	87
12) Methyl Acetate	4.857	43	47329	4.495	ug/l	98
13) Acrolein	4.034	56	18626	16.627	ug/l	99
14) Acrylonitrile	5.551	53	83791	17.570	ug/l	94
15) Acetone	4.287	58	27808	20.262	ug/l	84
16) Carbon Disulfide	4.534	76	70970	3.648	ug/l	98
17) Allyl chloride	4.834	41	41216	3.401	ug/l	85
18) Methylene Chloride	5.093	84	35694	3.982	ug/l	90
19) trans-1,2-Dichloroethene	5.598	96	29979	3.751	ug/l	90
20) Diisopropyl ether	6.492	45	90637	3.574	ug/l	94
21) 1,1-Dichloroethane	6.387	63	57238	3.739	ug/l	97
22) cis-1,2-Dichloroethene	7.322	96	36995	3.810	ug/l	96
23) tert-Butyl Alcohol	5.363	59	28619	16.817	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	96362	3.573	ug/l	95
25) Chloroform	7.810	83	60324	3.918	ug/l	99
26) Cyclohexane	8.092	56	46631	3.524	ug/l #	97
29) 1,1-Dichloropropene	8.216	75	40970	3.595	ug/l	97
30) 2-Butanone	7.328	43	116266	18.329	ug/l	98
31) 2,2-Dichloropropane	7.322	77	46538	3.585	ug/l #	75
32) 1,1,1-Trichloroethane	8.016	97	48663	3.666	ug/l	98
33) Carbon Tetrachloride	8.204	117	40829	3.634	ug/l	99
34) Benzene	8.457	78	133808	3.779	ug/l #	89
35) Methacrylonitrile	7.628	41	22413	3.683	ug/l	93
36) 1,2-Dichloroethane	8.528	62	48377	3.917	ug/l	95
37) Trichloroethene	9.210	130	34663	3.794	ug/l	91
38) Methylcyclohexane	9.451	83	49020	3.413	ug/l	95
39) 1,2-Dichloropropane	9.486	63	33135	3.741	ug/l	98
40) Dibromomethane	9.575	93	22913	3.822	ug/l	88
41) Bromodichloromethane	9.757	83	42748	3.563	ug/l	100
42) Vinyl Acetate	6.428	43	367091	16.890	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	45409	3.692	ug/l	95
44) Isopropyl Acetate	8.557	43	88581	4.490	ug/l	95
45) 1,4-Dioxane	9.563	88	14634	73.522	ug/l	94
46) Methyl methacrylate	9.551	41	28940	3.345	ug/l	78
47) n-amyl Acetate	12.380	43	38158	2.899	ug/l #	90
48) t-1,3-Dichloropropene	10.716	75	43256	3.317	ug/l	94
49) cis-1,3-Dichloropropene	10.186	75	46180	3.238	ug/l	90
50) 1,1,2-Trichloroethane	10.892	97	33366	3.723	ug/l	98
51) Ethyl methacrylate	10.757	69	44576	3.221	ug/l	83
52) 1,3-Dichloropropane	11.039	76	58507	3.822	ug/l	99
53) Dibromochloromethane	11.233	129	32995	3.556	ug/l	98
54) 1,2-Dibromoethane	11.345	107	33964	3.684	ug/l	98
55) 2-Chloroethyl vinyl ether	10.039	63	27250	7.308	ug/l	99
56) Bromoform	12.457	173	23514	3.287	ug/l #	98
58) 4-Methyl-2-Pentanone	10.328	43	210987	17.789	ug/l	95
59) 2-Hexanone	11.080	43	152921	17.659	ug/l	93
61) Tetrachloroethene	10.975	164	31747	4.175	ug/l	92
62) Toluene	10.504	91	145482	3.840	ug/l	96
64) Chlorobenzene	11.763	112	90666	3.880	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.839	131	32618	3.805	ug/l	98
66) Ethyl Benzene	11.839	91	147531	3.583	ug/l	100
67) m/p-Xylenes	11.951	106	113895	7.111	ug/l	95
68) o-Xylene	12.274	106	56664	3.559	ug/l	92
69) Styrene	12.292	104	79679	3.180	ug/l	99
70) Isopropylbenzene	12.574	105	133191	3.333	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.821	83	50614	3.892	ug/l	99
72) 1,2,3-Trichloropropane	12.874	75	44452m	3.979	ug/l	
73) Bromobenzene	12.857	156	35341	3.626	ug/l	95
74) n-propylbenzene	12.916	91	144272	3.308	ug/l	99
75) 2-Chlorotoluene	13.004	91	96717	3.549	ug/l	98
76) 1,3,5-Trimethylbenzene	13.057	105	107068	3.340	ug/l	95
77) t-1,4-Dichloro-2-butene	12.627	75	11498	2.931	ug/l	81
78) 4-Chlorotoluene	13.104	91	85434	3.357	ug/l	97
79) tert-butylbenzene	13.321	119	95717	3.309	ug/l	96
80) 1,2,4-Trimethylbenzene	13.363	105	99241m	3.191	ug/l	
81) sec-Butylbenzene	13.498	105	127138	3.271	ug/l	98
82) p-Isopropyltoluene	13.610	119	97670	3.093	ug/l	96
83) 1,3-Dichlorobenzene	13.610	146	54426	3.412	ug/l	98
84) 1,4-Dichlorobenzene	13.692	146	52236	3.431	ug/l	99
85) n-Butylbenzene	13.939	91	64328	2.742	ug/l	97
86) Hexachloroethane	14.204	117	19632	3.329	ug/l	83
87) 1,2-Dichlorobenzene	13.986	146	55463	3.597	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.598	75	7444	3.217	ug/l	90
89) 1,2,4-Trichlorobenzene	15.257	180	18893m	2.651	ug/l	
90) Hexachlorobutadiene	15.362	225	16335	3.867	ug/l	99
91) Naphthalene	15.504	128	34087	1.720	ug/l	96
92) 1,2,3-Trichlorobenzene	15.698	180	17642	2.524	ug/l	97

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

