

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080323\
 Data File : VN078748.D
 Acq On : 03 Aug 2023 13:19
 Operator : JC\MD
 Sample : 03572-09 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2023

Quant Time: Aug 04 06:30:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 04:51:47 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/04/2023
 Supervised By :Semsettin Yesilyurt 08/04/2023

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

Internal Standards						
1) Bromochloromethane	7.824	128	100789	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	504819	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.876	117	409258	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	243923	32.286	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.633%			
60) 4-Bromofluorobenzene	12.853	95	141073	23.001	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 76.667%			
63) Toluene-d8	10.570	98	623434	30.837	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	17011	2.676	ug/l	97
3) Chloromethane	2.377	50	26990	3.449	ug/l	95
4) Vinyl Chloride	2.524	62	29902	2.812	ug/l	90
5) Bromomethane	2.965	94	21612	2.719	ug/l	97
6) Chloroethane	3.130	64	21663m	3.128	ug/l	
7) Trichlorofluoromethane	3.500	101	26353	2.416	ug/l	88
8) Diethyl Ether	3.977	74	7544m	2.118	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.383	101	14137m	2.414	ug/l	
10) 1,1-Dichloroethene	4.359	96	11936m	2.126	ug/l	
11) Methyl Iodide	4.600	142	14585	1.848	ug/l	91
12) Methyl Acetate	5.047	43	22117m	2.428	ug/l	
13) Acrolein	4.194	56	10668m	10.999	ug/l	
14) Acrylonitrile	5.741	53	28946m	10.853	ug/l	
15) Acetone	4.459	58	7537m	9.754	ug/l	
16) Carbon Disulfide	4.718	76	37097	2.339	ug/l	99
17) Allyl chloride	5.030	41	15508m	2.023	ug/l	
18) Methylene Chloride	5.283	84	18722	2.779	ug/l #	82
19) trans-1,2-Dichloroethene	5.800	96	14352	2.211	ug/l	83
20) Diisopropyl ether	6.688	45	35496	2.056	ug/l	93
21) 1,1-Dichloroethane	6.582	63	24841	2.173	ug/l	97
22) cis-1,2-Dichloroethene	7.500	96	16780	2.301	ug/l #	64
23) tert-Butyl Alcohol	5.536	59	15214m	13.960	ug/l	
24) Methyl tert-Butyl Ether	5.812	73	39559	2.095	ug/l #	84
25) Chloroform	7.982	83	32735	2.705	ug/l	86
26) Cyclohexane	8.259	56	20517	2.437	ug/l #	95
29) 1,1-Dichloropropene	8.382	75	21907	2.949	ug/l	82
30) 2-Butanone	7.506	43	33914	11.550	ug/l #	95
31) 2,2-Dichloropropane	7.500	77	22689	2.662	ug/l	100
32) 1,1,1-Trichloroethane	8.182	97	28531	3.036	ug/l	98
33) Carbon Tetrachloride	8.371	117	25611	3.068	ug/l	94
34) Benzene	8.618	78	63592	2.850	ug/l #	80
35) Methacrylonitrile	7.794	41	9043	2.804	ug/l #	68
36) 1,2-Dichloroethane	8.682	62	25416	3.243	ug/l	100
37) Trichloroethene	9.359	130	15855	2.532	ug/l	98
38) Methylcyclohexane	9.612	83	15281	2.002	ug/l	82
39) 1,2-Dichloropropane	9.635	63	15883	2.655	ug/l #	84
40) Dibromomethane	9.718	93	12063m	2.914	ug/l	
41) Bromodichloromethane	9.888	83	23242m	2.808	ug/l	
42) Vinyl Acetate	6.618	43	102723	10.881	ug/l #	86

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	15580m	2.566	ug/l	
44) Isopropyl Acetate	8.700	43	31459	2.954	ug/l	99
45) 1,4-Dioxane	9.712	88	4326	44.155	ug/l #	72
46) Methyl methacrylate	9.688	41	12205	2.502	ug/l	89
47) n-amyl Acetate	12.500	43	14775	1.801	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	20856	2.361	ug/l	90
49) cis-1,3-Dichloropropene	10.323	75	22482	2.396	ug/l	95
50) 1,1,2-Trichloroethane	11.023	97	15709	2.681	ug/l #	90
51) Ethyl methacrylate	10.882	69	15876	1.979	ug/l	91
52) 1,3-Dichloropropane	11.165	76	24076	2.286	ug/l	96
53) Dibromochloromethane	11.370	129	16407	2.478	ug/l	97
54) 1,2-Dibromoethane	11.476	107	14176	2.409	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	25494	9.972	ug/l	97
56) Bromoform	12.582	173	9729	2.246	ug/l #	94
58) 4-Methyl-2-Pentanone	10.453	43	69927	11.415	ug/l	98
59) 2-Hexanone	11.206	43	47223	10.181	ug/l	94
61) Tetrachloroethene	11.112	164	13962	2.594	ug/l #	88
62) Toluene	10.635	91	63297	2.571	ug/l	97
64) Chlorobenzene	11.894	112	36870	2.565	ug/l	89
65) 1,1,1,2-Tetrachloroethane	11.964	131	14064	2.481	ug/l	91
66) Ethyl Benzene	11.970	91	52459	2.114	ug/l	89
67) m/p-Xylenes	12.070	106	40415	4.264	ug/l	99
68) o-Xylene	12.400	106	18939	1.964	ug/l	94
69) Styrene	12.417	104	27195	1.753	ug/l	98
70) Isopropylbenzene	12.700	105	46464	1.948	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.947	83	19342	2.496	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	14654m	2.254	ug/l	
73) Bromobenzene	12.994	156	13167	2.252	ug/l	83
74) n-propylbenzene	13.041	91	48202	1.823	ug/l	98
75) 2-Chlorotoluene	13.129	91	32495	1.780	ug/l	96
76) 1,3,5-Trimethylbenzene	13.176	105	35530	1.668	ug/l	98
77) t-1,4-Dichloro-2-butene	12.747	75	4865	2.141	ug/l	73
78) 4-Chlorotoluene	13.229	91	25710	1.458	ug/l	98
79) tert-butylbenzene	13.441	119	31747	1.732	ug/l	92
80) 1,2,4-Trimethylbenzene	13.488	105	31746	1.561	ug/l	95
81) sec-Butylbenzene	13.623	105	37337	1.589	ug/l	96
82) p-Isopropyltoluene	13.729	119	28794	1.493	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	14093	1.359	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	13375	1.378	ug/l	99
85) n-Butylbenzene	14.058	91	15890	1.188	ug/l	98
86) Hexachloroethane	14.341	117	7846	2.232	ug/l	95
87) 1,2-Dichlorobenzene	14.111	146	14139	1.457	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	2938	2.232	ug/l #	78
89) 1,2,4-Trichlorobenzene	15.405	180	2463	0.890	ug/l	89
90) Hexachlorobutadiene	15.505	225	4841m	2.295	ug/l	
91) Naphthalene	15.647	128	9700	1.156	ug/l #	89
92) 1,2,3-Trichlorobenzene	15.847	180	3510m	1.114	ug/l	

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

