

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042123\
 Data File : VN077418.D
 Acq On : 21 Apr 2023 10:35
 Operator : JC\MD
 Sample : VN0421WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0421WBS01

Quant Time: Apr 22 02:39:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/24/2023
 Supervised By : Mahesh Dadoda 04/24/2023

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

Internal Standards						
1) Bromochloromethane	7.819	128	60347	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	437396	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	474867	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	150016	29.311	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.700%
60) 4-Bromofluorobenzene	12.854	95	238603	29.058	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.867%
63) Toluene-d8	10.572	98	490834	29.402	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	103431	18.028	ug/l	99
3) Chloromethane	2.372	50	93679	12.291	ug/l	98
4) Vinyl Chloride	2.525	62	136038	12.461	ug/l	99
5) Bromomethane	2.972	94	110830	13.472	ug/l	99
6) Chloroethane	3.137	64	97400	13.310	ug/l	97
7) Trichlorofluoromethane	3.507	101	183374	18.040	ug/l	100
8) Diethyl Ether	3.972	74	72281	16.683	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.378	101	115052	18.100	ug/l	83
10) 1,1-Dichloroethene	4.360	96	105925	16.658	ug/l	97
11) Methyl Iodide	4.601	142	130863	18.216	ug/l	93
12) Methyl Acetate	5.037	43	147832	15.604	ug/l	96
13) Acrolein	4.190	56	125906	107.066	ug/l	98
14) Acrylonitrile	5.725	53	250426	77.330	ug/l	99
15) Acetone	4.437	58	86337	73.489	ug/l	95
16) Carbon Disulfide	4.719	76	243841	14.528	ug/l #	92
17) Allyl chloride	5.037	41	113572	13.874	ug/l	95
18) Methylene Chloride	5.284	84	120799	16.359	ug/l #	94
19) trans-1,2-Dichloroethene	5.796	96	114287	16.529	ug/l	100
20) Diisopropyl ether	6.684	45	296820	15.214	ug/l	98
21) 1,1-Dichloroethane	6.578	63	203108	16.425	ug/l	96
22) cis-1,2-Dichloroethene	7.495	96	146083	17.331	ug/l	96
23) tert-Butyl Alcohol	5.531	59	107021	74.323	ug/l #	100
24) Methyl tert-Butyl Ether	5.801	73	387435	16.924	ug/l	99
25) Chloroform	7.972	83	231092	17.244	ug/l	93
26) Cyclohexane	8.260	56	162611	15.133	ug/l #	92
29) 1,1-Dichloropropene	8.372	75	165369	17.453	ug/l	98
30) 2-Butanone	7.490	43	338087	75.454	ug/l	97
31) 2,2-Dichloropropane	7.501	77	199877	17.184	ug/l	98
32) 1,1,1-Trichloroethane	8.172	97	213208	18.284	ug/l	99
33) Carbon Tetrachloride	8.372	117	180461	18.133	ug/l	93
34) Benzene	8.613	78	505353	17.237	ug/l	98
35) Methacrylonitrile	7.790	41	70433	16.687	ug/l	97
36) 1,2-Dichloroethane	8.678	62	172482	18.765	ug/l #	85
37) Trichloroethene	9.354	130	132483	18.475	ug/l	99
38) Methylcyclohexane	9.607	83	214806	16.715	ug/l	98
39) 1,2-Dichloropropane	9.625	63	121843	16.741	ug/l	98
40) Dibromomethane	9.707	93	95780	18.265	ug/l	98
41) Bromodichloromethane	9.889	83	187280	17.911	ug/l #	97
42) Vinyl Acetate	6.613	43	1117562m	86.178	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	118083	14.244	ug/l	97
44) Isopropyl Acetate	8.695	43	228393	15.387	ug/l #	100
45) 1,4-Dioxane	9.695	88	50743	324.159	ug/l	98
46) Methyl methacrylate	9.684	41	100365	15.705	ug/l	96
47) n-amyl Acetate	12.495	43	191620	14.773	ug/l	96
48) t-1,3-Dichloropropene	10.842	75	192656	16.463	ug/l	97
49) cis-1,3-Dichloropropene	10.313	75	210332	16.895	ug/l	99
50) 1,1,2-Trichloroethane	11.019	97	137176	18.010	ug/l	98
51) Ethyl methacrylate	10.878	69	190106	16.252	ug/l	97
52) 1,3-Dichloropropane	11.166	76	222428	17.497	ug/l	100
53) Dibromochloromethane	11.360	129	144157	17.957	ug/l	99
54) 1,2-Dibromoethane	11.472	107	135886	17.771	ug/l	100
55) 2-Chloroethyl vinyl ether	10.166	63	340253	94.217	ug/l	97
56) Bromoform	12.583	173	89115	16.525	ug/l #	98
58) 4-Methyl-2-Pentanone	10.448	43	694048	78.061	ug/l	98
59) 2-Hexanone	11.195	43	511561	74.436	ug/l	98
61) Tetrachloroethene	11.107	164	102261	18.105	ug/l	96
62) Toluene	10.631	91	570444	17.217	ug/l	99
64) Chlorobenzene	11.895	112	361554	17.962	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.966	131	130383	17.614	ug/l	98
66) Ethyl Benzene	11.966	91	637751	17.374	ug/l	98
67) m/p-Xylenes	12.072	106	503675	35.007	ug/l	99
68) o-Xylene	12.401	106	246986	17.159	ug/l	95
69) Styrene	12.413	104	400638	17.373	ug/l	99
70) Isopropylbenzene	12.695	105	651436	17.833	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	198054	17.705	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	142810m	18.781	ug/l	
73) Bromobenzene	12.983	156	136714	18.421	ug/l	91
74) n-propylbenzene	13.036	91	729531	18.050	ug/l	100
75) 2-Chlorotoluene	13.130	91	433405	17.900	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	505088	16.988	ug/l	97
77) t-1,4-Dichloro-2-butene	12.742	75	58607	15.131	ug/l	98
78) 4-Chlorotoluene	13.224	91	408584	17.859	ug/l	98
79) tert-butylbenzene	13.442	119	468855	18.120	ug/l	99
80) 1,2,4-Trimethylbenzene	13.489	105	473037	16.321	ug/l	100
81) sec-Butylbenzene	13.619	105	663834	17.963	ug/l	99
82) p-Isopropyltoluene	13.730	119	517662	17.485	ug/l	100
83) 1,3-Dichlorobenzene	13.736	146	253020	17.981	ug/l	98
84) 1,4-Dichlorobenzene	13.813	146	246266	18.038	ug/l	100
85) n-Butylbenzene	14.060	91	402407	16.448	ug/l	98
86) Hexachloroethane	14.336	117	103035	16.360	ug/l	99
87) 1,2-Dichlorobenzene	14.107	146	244875	17.760	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	37867	17.665	ug/l	92
89) 1,2,4-Trichlorobenzene	15.371	180	67680	12.479	ug/l	94
90) Hexachlorobutadiene	15.465	225	54161	19.471	ug/l	98
91) Naphthalene	15.589	128	241756	11.668	ug/l	100
92) 1,2,3-Trichlorobenzene	15.760	180	60735	11.477	ug/l	98

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

