

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042823\
 Data File : VN077510.D
 Acq On : 28 Apr 2023 19:30
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/29/2023
 Supervised By : Semsettin Yesilyurt 04/29/2023

Quant Time: Apr 28 22:46:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 28 16:20:59 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	65671	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	484978	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	516728	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	173017	29.552	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.500%		
60) 4-Bromofluorobenzene	12.848	95	276268	30.517	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.733%		
63) Toluene-d8	10.566	98	547637	30.076	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.267%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	145832	17.837	ug/l	99
3) Chloromethane	2.372	50	110367	18.273	ug/l	98
4) Vinyl Chloride	2.525	62	157926	18.800	ug/l	98
5) Bromomethane	2.966	94	129755	18.298	ug/l	98
6) Chloroethane	3.131	64	110004	18.185	ug/l	90
7) Trichlorofluoromethane	3.501	101	240315	19.398	ug/l	96
8) Diethyl Ether	3.972	74	82058	18.929	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.378	101	134167	19.162	ug/l	98
10) 1,1-Dichloroethene	4.348	96	125430	18.674	ug/l	96
11) Methyl Iodide	4.601	142	149968	18.199	ug/l	96
12) Methyl Acetate	5.042	43	182559	18.845	ug/l	96
13) Acrolein	4.190	56	118251	101.810	ug/l	100
14) Acrylonitrile	5.731	53	276509	93.038	ug/l	99
15) Acetone	4.443	58	81331	85.711	ug/l	92
16) Carbon Disulfide	4.719	76	299334	17.771	ug/l	97
17) Allyl chloride	5.031	41	126711	17.204	ug/l	96
18) Methylene Chloride	5.284	84	148544	18.746	ug/l	97
19) trans-1,2-Dichloroethene	5.795	96	138796	18.701	ug/l	95
20) Diisopropyl ether	6.678	45	330185	19.258	ug/l	98
21) 1,1-Dichloroethane	6.578	63	237649	18.967	ug/l	98
22) cis-1,2-Dichloroethene	7.495	96	164232	18.476	ug/l	98
23) tert-Butyl Alcohol	5.525	59	116630	90.963	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	441778	18.962	ug/l	98
25) Chloroform	7.972	83	277328	19.258	ug/l	93
26) Cyclohexane	8.266	56	192831	18.866	ug/l #	97
29) 1,1-Dichloropropene	8.378	75	192803	18.860	ug/l	100
30) 2-Butanone	7.489	43	335036	89.391	ug/l	99
31) 2,2-Dichloropropane	7.501	77	221705	18.535	ug/l	99
32) 1,1,1-Trichloroethane	8.178	97	253369	19.202	ug/l	97
33) Carbon Tetrachloride	8.366	117	212742	18.576	ug/l	92
34) Benzene	8.613	78	590597	18.786	ug/l	98
35) Methacrylonitrile	7.789	41	76788	20.066	ug/l	92
36) 1,2-Dichloroethane	8.678	62	211770	19.724	ug/l	98
37) Trichloroethene	9.360	130	150866	18.987	ug/l	87
38) Methylcyclohexane	9.607	83	246991	18.390	ug/l	98
39) 1,2-Dichloropropane	9.625	63	140189	19.253	ug/l	90
40) Dibromomethane	9.713	93	108514	18.897	ug/l	99
41) Bromodichloromethane	9.889	83	217223	19.153	ug/l	99
42) Vinyl Acetate	6.613	43	1000673	84.775	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	140623	19.384	ug/l #	78
44) Isopropyl Acetate	8.695	43	248208	19.314	ug/l	96
45) 1,4-Dioxane	9.701	88	57052	366.076	ug/l	94
46) Methyl methacrylate	9.683	41	109372	18.701	ug/l	97
47) n-amyl Acetate	12.495	43	193393	18.773	ug/l	97
48) t-1,3-Dichloropropene	10.836	75	215638	18.675	ug/l	96
49) cis-1,3-Dichloropropene	10.319	75	237598	19.062	ug/l	96
50) 1,1,2-Trichloroethane	11.019	97	155529	19.079	ug/l	97
51) Ethyl methacrylate	10.877	69	222811	19.743	ug/l	99
52) 1,3-Dichloropropane	11.166	76	256486	19.389	ug/l	100
53) Dibromochloromethane	11.360	129	163419	19.472	ug/l	100
54) 1,2-Dibromoethane	11.471	107	161967	19.416	ug/l	99
55) 2-Chloroethyl vinyl ether	10.160	63	335016	90.463	ug/l	99
56) Bromoform	12.583	173	98166	18.753	ug/l #	97
58) 4-Methyl-2-Pentanone	10.448	43	727397	97.747	ug/l	99
59) 2-Hexanone	11.195	43	526371	96.007	ug/l	99
61) Tetrachloroethene	11.107	164	116044	19.227	ug/l	91
62) Toluene	10.630	91	678742	19.531	ug/l	100
64) Chlorobenzene	11.895	112	416175	19.603	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.960	131	152909	20.154	ug/l	97
66) Ethyl Benzene	11.966	91	740914	19.525	ug/l	100
67) m/p-Xylenes	12.071	106	582144	39.397	ug/l	99
68) o-Xylene	12.401	106	288685	19.668	ug/l	98
69) Styrene	12.413	104	444159	19.461	ug/l	99
70) Isopropylbenzene	12.701	105	746769	20.044	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.936	83	225857	19.902	ug/l	98
72) 1,2,3-Trichloropropane	12.995	75	208192m	21.566	ug/l	
73) Bromobenzene	12.983	156	153849	19.203	ug/l	99
74) n-propylbenzene	13.036	91	804925	19.415	ug/l	100
75) 2-Chlorotoluene	13.130	91	503762	19.700	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	570276	19.858	ug/l	99
77) t-1,4-Dichloro-2-butene	12.736	75	59282	18.592	ug/l	93
78) 4-Chlorotoluene	13.224	91	468059	19.334	ug/l	99
79) tert-butylbenzene	13.442	119	531656	20.012	ug/l	98
80) 1,2,4-Trimethylbenzene	13.489	105	517426	19.590	ug/l	100
81) sec-Butylbenzene	13.618	105	724673	19.567	ug/l	99
82) p-Isopropyltoluene	13.736	119	560137	19.300	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	271449	19.367	ug/l	99
84) 1,4-Dichlorobenzene	13.813	146	261194	18.860	ug/l	99
85) n-Butylbenzene	14.060	91	409655	18.266	ug/l	99
86) Hexachloroethane	14.336	117	116430	19.804	ug/l	97
87) 1,2-Dichlorobenzene	14.107	146	270628	18.979	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	38821	18.506	ug/l	98
89) 1,2,4-Trichlorobenzene	15.395	180	58292	15.575	ug/l	97
90) Hexachlorobutadiene	15.501	225	56160	18.450	ug/l	98
91) Naphthalene	15.642	128	214410	15.693	ug/l	99
92) 1,2,3-Trichlorobenzene	15.848	180	56251	16.064	ug/l	94

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

