

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062323\
 Data File : VN078369.D
 Acq On : 23 Jun 2023 11:10
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/24/2023
 Supervised By : Mahesh Dadoda 06/26/2023

Quant Time: Jun 24 00:33:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 24 00:28:04 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	102556	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	582838	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	501492	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	223701	28.966	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.567%		
60) 4-Bromofluorobenzene	12.853	95	213901	30.274	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.900%		
63) Toluene-d8	10.570	98	729487	30.022	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.067%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	131695	21.202	ug/l	100
3) Chloromethane	2.371	50	156854	20.939	ug/l	100
4) Vinyl Chloride	2.524	62	196055	21.277	ug/l	100
5) Bromomethane	2.965	94	157359	21.007	ug/l	100
6) Chloroethane	3.130	64	128480	19.575	ug/l	100
7) Trichlorofluoromethane	3.506	101	227431	20.971	ug/l	100
8) Diethyl Ether	3.971	74	75733	20.920	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.389	101	120518	20.443	ug/l	100
10) 1,1-Dichloroethene	4.353	96	116919	20.226	ug/l	100
11) Methyl Iodide	4.600	142	168157	20.534	ug/l	100
12) Methyl Acetate	5.036	43	180688	20.154	ug/l	100
13) Acrolein	4.189	56	111219	99.046	ug/l	100
14) Acrylonitrile	5.730	53	250231	101.658	ug/l	100
15) Acetone	4.436	58	78676	114.133	ug/l	100
16) Carbon Disulfide	4.724	76	327269	20.719	ug/l	100
17) Allyl chloride	5.041	41	147467	20.298	ug/l	100
18) Methylene Chloride	5.289	84	136828	19.976	ug/l	100
19) trans-1,2-Dichloroethene	5.800	96	127428	19.975	ug/l	100
20) Diisopropyl ether	6.683	45	350910	20.149	ug/l	100
21) 1,1-Dichloroethane	6.583	63	235831	20.414	ug/l	100
22) cis-1,2-Dichloroethene	7.494	96	148573	20.472	ug/l	100
23) tert-Butyl Alcohol	5.530	59	91304	100.892	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	373912	20.515	ug/l	100
25) Chloroform	7.971	83	246767	20.213	ug/l	100
26) Cyclohexane	8.265	56	168906	20.430	ug/l #	100
29) 1,1-Dichloropropene	8.377	75	182382	20.186	ug/l	100
30) 2-Butanone	7.494	43	333957	105.453	ug/l	100
31) 2,2-Dichloropropane	7.500	77	199359	20.637	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	219177	19.909	ug/l	100
33) Carbon Tetrachloride	8.371	117	190198	19.815	ug/l	100
34) Benzene	8.612	78	546607	20.288	ug/l	100
35) Methacrylonitrile	7.788	41	72935	20.069	ug/l	100
36) 1,2-Dichloroethane	8.677	62	183464	19.972	ug/l	100
37) Trichloroethene	9.359	130	142546	20.708	ug/l	100
38) Methylcyclohexane	9.606	83	165898	20.899	ug/l	100
39) 1,2-Dichloropropane	9.629	63	137080	20.311	ug/l	100
40) Dibromomethane	9.712	93	96722	19.860	ug/l	100
41) Bromodichloromethane	9.894	83	192061	20.300	ug/l	100
42) Vinyl Acetate	6.618	43	1044938	103.579	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	129237	19.896	ug/l	100
44) Isopropyl Acetate	8.700	43	237538	19.723	ug/l	100
45) 1,4-Dioxane	9.700	88	40629	391.630	ug/l	100
46) Methyl methacrylate	9.688	41	115310	21.509	ug/l	100
47) n-amyl Acetate	12.500	43	181884	20.544	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	200680	20.663	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	221677	20.707	ug/l	100
50) 1,1,2-Trichloroethane	11.018	97	134356	20.579	ug/l	100
51) Ethyl methacrylate	10.882	69	183076	20.498	ug/l	100
52) 1,3-Dichloropropane	11.170	76	218680	19.957	ug/l	100
53) Dibromochloromethane	11.365	129	143764	20.760	ug/l	100
54) 1,2-Dibromoethane	11.476	107	134720	20.473	ug/l	100
55) 2-Chloroethyl vinyl ether	10.165	63	328991	99.843	ug/l	100
56) Bromoform	12.582	173	86408	20.385	ug/l	100
58) 4-Methyl-2-Pentanone	10.453	43	695819	103.901	ug/l	100
59) 2-Hexanone	11.200	43	490664	106.086	ug/l	100
61) Tetrachloroethene	11.106	164	110604	20.127	ug/l	100
62) Toluene	10.635	91	606584	20.783	ug/l	100
64) Chlorobenzene	11.894	112	357190	20.648	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.965	131	136781	20.505	ug/l	100
66) Ethyl Benzene	11.970	91	617507	20.793	ug/l	100
67) m/p-Xylenes	12.076	106	468902	41.757	ug/l	100
68) o-Xylene	12.400	106	230701	21.186	ug/l	100
69) Styrene	12.417	104	361992	20.996	ug/l	100
70) Isopropylbenzene	12.700	105	554082	20.708	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	179372	20.615	ug/l	100
72) 1,2,3-Trichloropropane	13.000	75	144794m	18.878	ug/l	
73) Bromobenzene	12.982	156	133243	20.829	ug/l	100
74) n-propylbenzene	13.041	91	609919	20.963	ug/l	100
75) 2-Chlorotoluene	13.129	91	397757	20.195	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	446807	20.138	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	50089	21.366	ug/l	100
78) 4-Chlorotoluene	13.229	91	365622	19.837	ug/l	100
79) tert-butylbenzene	13.441	119	376032	20.603	ug/l	100
80) 1,2,4-Trimethylbenzene	13.488	105	439542	20.966	ug/l	100
81) sec-Butylbenzene	13.623	105	483922	21.254	ug/l	100
82) p-Isopropyltoluene	13.735	119	389760	21.282	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	209187	20.632	ug/l	100
84) 1,4-Dichlorobenzene	13.817	146	203739	20.783	ug/l	100
85) n-Butylbenzene	14.059	91	304164	22.484	ug/l	100
86) Hexachloroethane	14.341	117	72146	20.467	ug/l	100
87) 1,2-Dichlorobenzene	14.111	146	207304	20.627	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.723	75	26079	19.892	ug/l	100
89) 1,2,4-Trichlorobenzene	15.400	180	66938	21.843	ug/l	100
90) Hexachlorobutadiene	15.505	225	46102	22.128	ug/l	100
91) Naphthalene	15.647	128	212875	21.199	ug/l	100
92) 1,2,3-Trichlorobenzene	15.847	180	76096	21.464	ug/l	100

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

