

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062323\
 Data File : VN078370.D
 Acq On : 23 Jun 2023 11:34
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

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

Quant Time: Jun 24 00:34:36 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	7.824	128	80438	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	449800	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	384552	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	183947	30.368	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.233%			
60) 4-Bromofluorobenzene	12.853	95	159020	29.351	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.833%			
63) Toluene-d8	10.571	98	565196	30.334	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	49661	10.193	ug/l	95
3) Chloromethane	2.377	50	62133	10.575	ug/l	99
4) Vinyl Chloride	2.524	62	74635	10.327	ug/l	93
5) Bromomethane	2.971	94	60498	10.297	ug/l	98
6) Chloroethane	3.130	64	52208	10.142	ug/l	91
7) Trichlorofluoromethane	3.512	101	85444	10.045	ug/l	98
8) Diethyl Ether	3.977	74	30130	10.611	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.383	101	47047m	10.175	ug/l	
10) 1,1-Dichloroethene	4.353	96	46036	10.154	ug/l	92
11) Methyl Iodide	4.600	142	61915	9.639	ug/l	98
12) Methyl Acetate	5.036	43	73588m	10.465	ug/l	
13) Acrolein	4.194	56	44432	50.449	ug/l	94
14) Acrylonitrile	5.736	53	93378	48.367	ug/l	100
15) Acetone	4.441	58	27268m	50.434	ug/l	
16) Carbon Disulfide	4.724	76	122578	9.894	ug/l	99
17) Allyl chloride	5.036	41	56575m	9.929	ug/l	
18) Methylene Chloride	5.289	84	53739	10.003	ug/l	94
19) trans-1,2-Dichloroethene	5.800	96	51430	10.279	ug/l	95
20) Diisopropyl ether	6.683	45	132954	9.733	ug/l #	93
21) 1,1-Dichloroethane	6.583	63	89208	9.846	ug/l	97
22) cis-1,2-Dichloroethene	7.494	96	57755	10.146	ug/l	96
23) tert-Butyl Alcohol	5.541	59	35607m	50.165	ug/l	
24) Methyl tert-Butyl Ether	5.812	73	140684	9.841	ug/l	100
25) Chloroform	7.977	83	96865	10.116	ug/l	91
26) Cyclohexane	8.265	56	63744	9.830	ug/l #	96
29) 1,1-Dichloropropene	8.382	75	70558	10.119	ug/l	98
30) 2-Butanone	7.494	43	123053	50.349	ug/l #	97
31) 2,2-Dichloropropane	7.500	77	76819	10.304	ug/l	97
32) 1,1,1-Trichloroethane	8.177	97	85400	10.052	ug/l #	85
33) Carbon Tetrachloride	8.371	117	73684	9.947	ug/l	91
34) Benzene	8.618	78	208641	10.034	ug/l	97
35) Methacrylonitrile	7.788	41	26609	9.487	ug/l	79
36) 1,2-Dichloroethane	8.682	62	71853	10.136	ug/l #	95
37) Trichloroethene	9.359	130	51625	9.718	ug/l	90
38) Methylcyclohexane	9.606	83	59560	9.722	ug/l	96
39) 1,2-Dichloropropane	9.629	63	52190	10.020	ug/l	99
40) Dibromomethane	9.712	93	38917	10.354	ug/l	93
41) Bromodichloromethane	9.894	83	70944	9.716	ug/l	99
42) Vinyl Acetate	6.618	43	386587	49.654	ug/l #	70

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	54319m	10.836	ug/l	
44) Isopropyl Acetate	8.700	43	86801	9.339	ug/l	99
45) 1,4-Dioxane	9.700	88	15771	196.983	ug/l	95
46) Methyl methacrylate	9.688	41	38824	9.384	ug/l	96
47) n-amyl Acetate	12.500	43	64108	9.383	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	69689	9.298	ug/l	89
49) cis-1,3-Dichloropropene	10.318	75	80038	9.688	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	49666	9.857	ug/l	98
51) Ethyl methacrylate	10.882	69	64188	9.312	ug/l	91
52) 1,3-Dichloropropane	11.165	76	82402	9.744	ug/l	97
53) Dibromochloromethane	11.365	129	52125	9.754	ug/l	97
54) 1,2-Dibromoethane	11.476	107	49562	9.759	ug/l	98
55) 2-Chloroethyl vinyl ether	10.171	63	115698	45.498	ug/l	98
56) Bromoform	12.582	173	31441	9.611	ug/l	93
58) 4-Methyl-2-Pentanone	10.447	43	257980	50.236	ug/l	98
59) 2-Hexanone	11.200	43	173917	49.037	ug/l	98
61) Tetrachloroethene	11.106	164	42110	9.993	ug/l	96
62) Toluene	10.635	91	225311	10.067	ug/l	98
64) Chlorobenzene	11.900	112	128925	9.719	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	50642	9.900	ug/l	97
66) Ethyl Benzene	11.970	91	219111	9.621	ug/l	98
67) m/p-Xylenes	12.076	106	166429	19.328	ug/l	100
68) o-Xylene	12.406	106	80670	9.661	ug/l	95
69) Styrene	12.417	104	126733	9.586	ug/l	98
70) Isopropylbenzene	12.700	105	200814	9.787	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	67427	10.106	ug/l	96
72) 1,2,3-Trichloropropane	13.000	75	53014m	9.014	ug/l	
73) Bromobenzene	12.982	156	48007	9.786	ug/l	99
74) n-propylbenzene	13.041	91	212845	9.540	ug/l	98
75) 2-Chlorotoluene	13.129	91	142633	9.444	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	162903	9.575	ug/l	97
77) t-1,4-Dichloro-2-butene	12.747	75	15747	8.760	ug/l	91
78) 4-Chlorotoluene	13.229	91	128773	9.111	ug/l	100
79) tert-butylbenzene	13.441	119	126214	9.018	ug/l	92
80) 1,2,4-Trimethylbenzene	13.488	105	154310	9.599	ug/l	98
81) sec-Butylbenzene	13.623	105	172107	9.857	ug/l	99
82) p-Isopropyltoluene	13.735	119	132806	9.457	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	75761	9.744	ug/l	96
84) 1,4-Dichlorobenzene	13.817	146	73754	9.811	ug/l	98
85) n-Butylbenzene	14.064	91	92837	8.950	ug/l	99
86) Hexachloroethane	14.341	117	25776	9.536	ug/l	99
87) 1,2-Dichlorobenzene	14.111	146	75661	9.817	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.723	75	9675	9.624	ug/l	94
89) 1,2,4-Trichlorobenzene	15.400	180	19293	8.210	ug/l	94
90) Hexachlorobutadiene	15.505	225	17567	10.996	ug/l	98
91) Naphthalene	15.647	128	65269	8.476	ug/l	96
92) 1,2,3-Trichlorobenzene	15.841	180	26043	9.580	ug/l	92

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

