

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
 Data File : VN076680.D
 Acq On : 15 Feb 2023 11:59
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/16/2023
 Supervised By : Mahesh Dadoda 02/18/2023

Quant Time: Feb 15 12:20:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 15 11:41:11 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.813	128	42244	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	289152	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	334297	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	103307	20.749	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	69.167%#		
60) 4-Bromofluorobenzene	12.848	95	178429	23.642	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	78.800%		
63) Toluene-d8	10.572	98	327736	26.700	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	89.000%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	688610	117.772	ug/l	95
3) Chloromethane	2.372	50	807849	114.908	ug/l	99
4) Vinyl Chloride	2.525	62	798998	130.161	ug/l	93
5) Bromomethane	2.919	94	459791	149.195	ug/l	90
6) Chloroethane	3.102	64	498426	140.951	ug/l	97
7) Trichlorofluoromethane	3.496	101	1065626	102.233	ug/l	99
8) Diethyl Ether	3.972	74	434118	131.308	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.372	101	635755	126.705	ug/l	96
10) 1,1-Dichloroethene	4.343	96	625524	132.661	ug/l	97
11) Methyl Iodide	4.596	142	994047	145.106	ug/l	91
12) Methyl Acetate	5.031	43	1240440	125.361	ug/l	97
13) Acrolein	4.184	56	723607	570.948	ug/l	100
14) Acrylonitrile	5.731	53	1937984	668.513	ug/l	100
15) Acetone	4.437	58	525507	627.825	ug/l	99
16) Carbon Disulfide	4.719	76	1769413	136.542	ug/l	97
17) Allyl chloride	5.031	41	1099314	120.935	ug/l	96
18) Methylene Chloride	5.284	84	727630	130.410	ug/l	94
19) trans-1,2-Dichloroethene	5.796	96	672458	138.827	ug/l	95
20) Diisopropyl ether	6.678	45	2532571	122.055	ug/l	94
21) 1,1-Dichloroethane	6.572	63	1306021	115.424	ug/l	97
22) cis-1,2-Dichloroethene	7.495	96	791521	136.375	ug/l	96
23) tert-Butyl Alcohol	5.537	59	602397	619.253	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	2184571	128.643	ug/l	96
25) Chloroform	7.972	83	1285373	114.804	ug/l	98
26) Cyclohexane	8.260	56	1205112	120.023	ug/l #	94
29) 1,1-Dichloropropene	8.378	75	993529	132.745	ug/l	97
30) 2-Butanone	7.490	43	2732339	676.328	ug/l	99
31) 2,2-Dichloropropane	7.601	77	3030	0.390	ug/l	98
32) 1,1,1-Trichloroethane	8.178	97	1138157	122.566	ug/l	97
33) Carbon Tetrachloride	8.366	117	1015874	126.811	ug/l	95
34) Benzene	8.613	78	3001867	130.534	ug/l	97
35) Methacrylonitrile	7.784	41	640773	137.943	ug/l	99
36) 1,2-Dichloroethane	8.672	62	988650	112.108	ug/l	98
37) Trichloroethene	9.354	130	731835	155.428	ug/l	97
38) Methylcyclohexane	9.607	83	1266035	152.826	ug/l	99
39) 1,2-Dichloropropane	9.625	63	784297	142.910	ug/l	94
40) Dibromomethane	9.713	93	515031	142.650	ug/l	93
41) Bromodichloromethane	9.889	83	1044540	137.596	ug/l	99
42) Vinyl Acetate	6.613	43	8862529	674.426	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	1093123	132.694	ug/l	97
44) Isopropyl Acetate	8.695	43	1859029	137.191	ug/l	99
45) 1,4-Dioxane	9.695	88	298136	2698.963	ug/l	96
46) Methyl methacrylate	9.684	41	864132	132.262	ug/l	99
47) n-amyl Acetate	12.495	43	1817732	157.816	ug/l	97
48) t-1,3-Dichloropropene	10.836	75	1174022	153.635	ug/l	99
49) cis-1,3-Dichloropropene	10.313	75	1257369	148.846	ug/l	97
50) 1,1,2-Trichloroethane	11.019	97	724194	147.696	ug/l	99
51) Ethyl methacrylate	10.878	69	1203157	154.534	ug/l	97
52) 1,3-Dichloropropane	11.166	76	1258707	137.714	ug/l	100
53) Dibromochloromethane	11.360	129	826510	162.220	ug/l	97
54) 1,2-Dibromoethane	11.472	107	758598	152.892	ug/l	98
55) 2-Chloroethyl vinyl ether	10.166	63	2611197	734.249	ug/l	99
56) Bromoform	12.583	173	631470	192.438	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	5713386	611.372	ug/l	99
59) 2-Hexanone	11.201	43	4218356	620.829	ug/l	99
61) Tetrachloroethene	11.107	164	610686	142.909	ug/l	94
62) Toluene	10.631	91	3246169	130.972	ug/l	100
64) Chlorobenzene	11.895	112	2030875	141.446	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.960	131	732049	134.488	ug/l	97
66) Ethyl Benzene	11.966	91	3647663	134.246	ug/l	98
67) m/p-Xylenes	12.072	106	2792274	273.894	ug/l	97
68) o-Xylene	12.401	106	1397128	139.105	ug/l	97
69) Styrene	12.413	104	2353712	147.641	ug/l	99
70) Isopropylbenzene	12.701	105	3693708	137.235	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.942	83	1152712	122.840	ug/l	100
72) 1,2,3-Trichloropropane	12.995	75	1081912m	126.236	ug/l	
73) Bromobenzene	12.983	156	859667	134.604	ug/l	97
74) n-propylbenzene	13.036	91	4437735	128.554	ug/l	97
75) 2-Chlorotoluene	13.130	91	2535514	116.764	ug/l	96
76) 1,3,5-Trimethylbenzene	13.177	105	3085724	122.772	ug/l	99
77) t-1,4-Dichloro-2-butene	12.742	75	399170	154.412	ug/l	93
78) 4-Chlorotoluene	13.224	91	2535232	116.114	ug/l	100
79) tert-butylbenzene	13.442	119	2765278	129.621	ug/l	99
80) 1,2,4-Trimethylbenzene	13.483	105	3066258	123.707	ug/l	100
81) sec-Butylbenzene	13.619	105	4062858	136.009	ug/l	98
82) p-Isopropyltoluene	13.730	119	3386292	141.081	ug/l	100
83) 1,3-Dichlorobenzene	13.736	146	1649296	139.619	ug/l	99
84) 1,4-Dichlorobenzene	13.813	146	1704944	144.664	ug/l	97
85) n-Butylbenzene	14.060	91	3153258	141.470	ug/l	98
86) Hexachloroethane	14.336	117	643268	138.026	ug/l	93
87) 1,2-Dichlorobenzene	14.107	146	1706562	131.604	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	240222	125.592	ug/l	84
89) 1,2,4-Trichlorobenzene	15.395	180	1014528	187.593	ug/l	100
90) Hexachlorobutadiene	15.507	225	446408	170.865	ug/l	95
91) Naphthalene	15.642	128	3282881	177.913	ug/l	99
92) 1,2,3-Trichlorobenzene	15.842	180	983336	182.177	ug/l	100

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

