

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051622\
 Data File : VN072497.D
 Acq On : 16 May 2022 13:04
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/17/2022
 Supervised By : Mahesh Dadoda 05/17/2022

Quant Time: May 16 13:21:31 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon May 16 13:19:02 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.651	128	25719	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	132674	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	132379	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	86029	36.850	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 122.833%#			
60) 4-Bromofluorobenzene	12.727	95	77417	35.383	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 117.933%#			
63) Toluene-d8	10.439	98	208718	32.114	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 107.033%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	108535	69.001	ug/l	97
3) Chloromethane	2.299	50	95366	56.129	ug/l	99
4) Vinyl Chloride	2.440	62	80571	45.312	ug/l	98
5) Bromomethane	2.816	94	66901	63.177	ug/l	99
6) Chloroethane	2.993	64	52993	46.899	ug/l	96
7) Trichlorofluoromethane	3.357	101	197736	73.825	ug/l	97
8) Diethyl Ether	3.828	74	59107	60.516	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.210	101	93297	64.329	ug/l #	67
10) 1,1-Dichloroethene	4.175	96	84363	61.535	ug/l	87
11) Methyl Iodide	4.416	142	130028	64.597	ug/l	97
12) Methyl Acetate	4.857	43	135283	65.246	ug/l	93
13) Acrolein	4.040	56	104350	407.218	ug/l	97
14) Acrylonitrile	5.545	53	289301	323.672	ug/l	100
15) Acetone	4.281	58	74209	298.999	ug/l	79
16) Carbon Disulfide	4.522	76	218594	60.760	ug/l #	94
17) Allyl chloride	4.840	41	152084	65.814	ug/l	97
18) Methylene Chloride	5.098	84	98638	59.475	ug/l	98
19) trans-1,2-Dichloroethene	5.593	96	91357	61.376	ug/l	94
20) Diisopropyl ether	6.492	45	316878	65.727	ug/l	94
21) 1,1-Dichloroethane	6.387	63	185034	63.373	ug/l	98
22) cis-1,2-Dichloroethene	7.322	96	108762	61.074	ug/l	93
23) tert-Butyl Alcohol	5.369	59	122784	355.175	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	348097	66.907	ug/l	99
25) Chloroform	7.816	83	204705	67.869	ug/l	99
26) Cyclohexane	8.092	56	156266	63.563	ug/l #	99
29) 1,1-Dichloropropene	8.216	75	143391	70.713	ug/l	97
30) 2-Butanone	7.328	43	405724	350.157	ug/l	96
31) 2,2-Dichloropropane	7.322	77	179977	75.861	ug/l	94
32) 1,1,1-Trichloroethane	8.010	97	199569	77.899	ug/l	98
33) Carbon Tetrachloride	8.204	117	180071	80.104	ug/l	98
34) Benzene	8.457	78	397805	64.477	ug/l	99
35) Methacrylonitrile	7.628	41	86393	76.444	ug/l	94
36) 1,2-Dichloroethane	8.528	62	185540	76.666	ug/l #	89
37) Trichloroethene	9.216	130	107840	66.447	ug/l	99
38) Methylcyclohexane	9.457	83	169760	68.326	ug/l	94
39) 1,2-Dichloropropane	9.486	63	100272	64.374	ug/l	99
40) Dibromomethane	9.575	93	76008	68.935	ug/l	89
41) Bromodichloromethane	9.757	83	164631	73.796	ug/l	93
42) Vinyl Acetate	6.428	43	1418852	359.129	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	151218	68.455	ug/l	97
44) Isopropyl Acetate	8.557	43	254247	70.008	ug/l	99
45) 1,4-Dioxane	9.563	88	48723	1366.383	ug/l	92
46) Methyl methacrylate	9.557	41	128919	81.038	ug/l	87
47) n-amyl Acetate	12.386	43	178749	75.556	ug/l	96
48) t-1,3-Dichloropropene	10.716	75	177173	74.220	ug/l	98
49) cis-1,3-Dichloropropene	10.186	75	176562	69.205	ug/l	96
50) 1,1,2-Trichloroethane	10.898	97	106807	67.494	ug/l	96
51) Ethyl methacrylate	10.757	69	172226	70.254	ug/l	95
52) 1,3-Dichloropropane	11.039	76	185012	67.970	ug/l	100
53) Dibromochloromethane	11.233	129	129620	73.850	ug/l	98
54) 1,2-Dibromoethane	11.345	107	115411	70.342	ug/l	97
55) 2-Chloroethyl vinyl ether	10.039	63	223686	360.820	ug/l	100
56) Bromoform	12.457	173	98895	75.337	ug/l #	99
58) 4-Methyl-2-Pentanone	10.328	43	810791	337.924	ug/l	98
59) 2-Hexanone	11.080	43	602477	342.761	ug/l	99
61) Tetrachloroethene	10.975	164	101436	65.678	ug/l	91
62) Toluene	10.504	91	458292	62.329	ug/l	96
64) Chlorobenzene	11.769	112	286368	63.056	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.839	131	118739	67.327	ug/l	97
66) Ethyl Benzene	11.839	91	532403	65.719	ug/l	97
67) m/p-Xylenes	11.951	106	407924	131.090	ug/l	96
68) o-Xylene	12.274	106	197569	63.680	ug/l	93
69) Styrene	12.292	104	321371	65.805	ug/l	95
70) Isopropylbenzene	12.574	105	538187	68.209	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.821	83	156568	61.924	ug/l	98
72) 1,2,3-Trichloropropane	12.874	75	158825m	70.875	ug/l	
73) Bromobenzene	12.857	156	125813	65.485	ug/l	100
74) n-propylbenzene	12.916	91	593745	69.497	ug/l	99
75) 2-Chlorotoluene	13.004	91	374809	68.254	ug/l	96
76) 1,3,5-Trimethylbenzene	13.057	105	461131	71.483	ug/l	100
77) t-1,4-Dichloro-2-butene	12.621	75	49943	66.846	ug/l	92
78) 4-Chlorotoluene	13.098	91	355840	70.035	ug/l	96
79) tert-butylbenzene	13.321	119	410336	71.158	ug/l	98
80) 1,2,4-Trimethylbenzene	13.363	105	446237	71.088	ug/l #	81
81) sec-Butylbenzene	13.498	105	545508	70.992	ug/l	98
82) p-Isopropyltoluene	13.610	119	454858	72.330	ug/l	99
83) 1,3-Dichlorobenzene	13.610	146	219492	69.366	ug/l	99
84) 1,4-Dichlorobenzene	13.692	146	210252	69.169	ug/l	97
85) n-Butylbenzene	13.939	91	330078	71.986	ug/l	98
86) Hexachloroethane	14.204	117	78705	68.395	ug/l	87
87) 1,2-Dichlorobenzene	13.986	146	215778	70.211	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.598	75	37993	76.704	ug/l	98
89) 1,2,4-Trichlorobenzene	15.262	180	99389	72.347	ug/l	97
90) Hexachlorobutadiene	15.368	225	60358	70.612	ug/l	98
91) Naphthalene	15.504	128	304369	78.811	ug/l	99
92) 1,2,3-Trichlorobenzene	15.698	180	100803	73.378	ug/l	98

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

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