

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053122\
 Data File : VN072647.D
 Acq On : 31 May 2022 11:00
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/01/2022
 Supervised By : Mahesh Dadoda 06/01/2022

Quant Time: Jun 01 02:46:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 27 05:07:24 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.651	128	22399	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	132146	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	98898	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	73407	34.249	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 114.167%#			
60) 4-Bromofluorobenzene	12.727	95	67058	38.609	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 128.700%#			
63) Toluene-d8	10.439	98	171372	30.475	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.600%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	32865	21.472	ug/l	88
3) Chloromethane	2.293	50	48119	23.445	ug/l	96
4) Vinyl Chloride	2.440	62	41175	23.995	ug/l	97
5) Bromomethane	2.840	94	16755	20.080	ug/l	94
6) Chloroethane	3.004	64	24626	22.939	ug/l	97
7) Trichlorofluoromethane	3.369	101	46331	18.841	ug/l	97
8) Diethyl Ether	3.822	74	19652	19.047	ug/l	72
9) 1,1,2-Trichlorotrifluo...	4.210	101	27045	19.688	ug/l	58
10) 1,1-Dichloroethene	4.181	96	24697	18.309	ug/l	91
11) Methyl Iodide	4.416	142	20672	16.007	ug/l	95
12) Methyl Acetate	4.845	43	55477	20.957	ug/l	91
13) Acrolein	4.040	56	30617	100.992	ug/l	97
14) Acrylonitrile	5.545	53	114457	100.376	ug/l	97
15) Acetone	4.281	58	31819	108.398	ug/l	94
16) Carbon Disulfide	4.528	76	75213	20.329	ug/l	95
17) Allyl chloride	4.840	41	61041	21.782	ug/l	78
18) Methylene Chloride	5.092	84	33288m	18.771	ug/l	
19) trans-1,2-Dichloroethene	5.592	96	28041	19.006	ug/l	87
20) Diisopropyl ether	6.492	45	149632	23.287	ug/l #	88
21) 1,1-Dichloroethane	6.381	63	73157	22.368	ug/l	98
22) cis-1,2-Dichloroethene	7.316	96	44105	23.537	ug/l	97
23) tert-Butyl Alcohol	5.357	59	34880	91.132	ug/l #	100
24) Methyl tert-Butyl Ether	5.604	73	100800	19.452	ug/l	100
25) Chloroform	7.810	83	68759	20.692	ug/l	98
26) Cyclohexane	8.092	56	68150	22.093	ug/l #	91
29) 1,1-Dichloropropene	8.216	75	54541	21.824	ug/l	96
30) 2-Butanone	7.328	43	201116	119.509	ug/l	94
31) 2,2-Dichloropropane	7.322	77	60589	23.938	ug/l	99
32) 1,1,1-Trichloroethane	8.010	97	63841	23.027	ug/l	97
33) Carbon Tetrachloride	8.204	117	55550	22.566	ug/l	99
34) Benzene	8.451	78	170177	21.662	ug/l	96
35) Methacrylonitrile	7.628	41	39937	23.266	ug/l	87
36) 1,2-Dichloroethane	8.528	62	58036	22.735	ug/l	97
37) Trichloroethene	9.210	130	36857	19.712	ug/l	95
38) Methylcyclohexane	9.457	83	60160	19.490	ug/l	88
39) 1,2-Dichloropropane	9.486	63	42961	20.507	ug/l	97
40) Dibromomethane	9.569	93	24239	18.246	ug/l	97
41) Bromodichloromethane	9.763	83	50221	18.860	ug/l #	93
42) Vinyl Acetate	6.428	43	621498m	113.156	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.404	43	76656	23.754	ug/l	98
44) Isopropyl Acetate	8.557	43	115375	22.945	ug/l	99
45) 1,4-Dioxane	9.563	88	17873	423.951	ug/l #	88
46) Methyl methacrylate	9.557	41	49033	20.697	ug/l	81
47) n-amyl Acetate	12.380	43	73947	20.185	ug/l	97
48) t-1,3-Dichloropropene	10.716	75	51180	17.794	ug/l	100
49) cis-1,3-Dichloropropene	10.186	75	56669	17.881	ug/l	98
50) 1,1,2-Trichloroethane	10.892	97	33560	17.185	ug/l	97
51) Ethyl methacrylate	10.757	69	55559	16.873	ug/l	88
52) 1,3-Dichloropropane	11.039	76	60152	17.467	ug/l	100
53) Dibromochloromethane	11.233	129	33741	16.806	ug/l	96
54) 1,2-Dibromoethane	11.339	107	33254	16.583	ug/l	98
55) 2-Chloroethyl vinyl ether	10.039	63	123733	85.905	ug/l	95
56) Bromoform	12.451	173	32413	22.362	ug/l #	100
58) 4-Methyl-2-Pentanone	10.327	43	342133	119.767	ug/l #	94
59) 2-Hexanone	11.080	43	255372	125.349	ug/l	97
61) Tetrachloroethene	10.974	164	24421	18.658	ug/l	97
62) Toluene	10.498	91	144326	20.788	ug/l	100
64) Chlorobenzene	11.768	112	81414	20.180	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.839	131	31830	20.036	ug/l	98
66) Ethyl Benzene	11.839	91	153606	20.056	ug/l	98
67) m/p-Xylenes	11.951	106	116063	41.695	ug/l	98
68) o-Xylene	12.274	106	57944	20.922	ug/l	99
69) Styrene	12.292	104	90203	20.557	ug/l	98
70) Isopropylbenzene	12.574	105	171388	24.222	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.821	83	67784	27.904	ug/l	97
72) 1,2,3-Trichloropropane	12.874	75	50298m	24.537	ug/l	
73) Bromobenzene	12.857	156	38110	24.518	ug/l	82
74) n-propylbenzene	12.915	91	219387	27.421	ug/l	99
75) 2-Chlorotoluene	13.004	91	126193	26.005	ug/l	95
76) 1,3,5-Trimethylbenzene	13.057	105	143194	25.644	ug/l	98
77) t-1,4-Dichloro-2-butene	12.621	75	21890	27.327	ug/l	98
78) 4-Chlorotoluene	13.098	91	130765	29.597	ug/l	94
79) tert-butylbenzene	13.321	119	132363	27.087	ug/l	97
80) 1,2,4-Trimethylbenzene	13.363	105	140940m	26.152	ug/l	
81) sec-Butylbenzene	13.498	105	173103	24.486	ug/l	99
82) p-Isopropyltoluene	13.610	119	140400	25.619	ug/l	99
83) 1,3-Dichlorobenzene	13.610	146	66103	24.503	ug/l	100
84) 1,4-Dichlorobenzene	13.692	146	73915	28.202	ug/l	98
85) n-Butylbenzene	13.939	91	124782	27.708	ug/l	96
86) Hexachloroethane	14.204	117	34666	31.760	ug/l	93
87) 1,2-Dichlorobenzene	13.986	146	76506	28.712	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.598	75	13581	28.777	ug/l	95
89) 1,2,4-Trichlorobenzene	15.257	180	36812	28.001	ug/l	94
90) Hexachlorobutadiene	15.368	225	20077	30.451	ug/l	100
91) Naphthalene	15.504	128	120203	26.055	ug/l	98
92) 1,2,3-Trichlorobenzene	15.698	180	37140	27.672	ug/l	99

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

