

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121321\
 Data File : VN070026.D
 Acq On : 13 Dec 2021 10:45
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/14/2021
 Supervised By : Amit Patel 12/15/2021

Quant Time: Dec 13 13:22:49 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 13 13:20:37 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	178966	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	983965	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.744	117	883227	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	474212	30.552	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.833%			
60) 4-Bromofluorobenzene	12.731	95	427710	30.261	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.867%			
63) Toluene-d8	10.440	98	1265061	31.021	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.400%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.075	85	262126	19.821	ug/l	98
3) Chloromethane	2.306	50	294594	21.365	ug/l	95
4) Vinyl Chloride	2.451	62	269900	19.305	ug/l	99
5) Bromomethane	2.872	94	147960	16.524	ug/l	97
6) Chloroethane	3.030	64	156820	17.778	ug/l	99
7) Trichlorofluoromethane	3.384	101	359504	17.543	ug/l	98
8) Diethyl Ether	3.827	74	136206	21.056	ug/l	77
9) 1,1,2-Trichlorotrifluo...	4.216	101	208979	22.038	ug/l #	70
10) 1,1-Dichloroethene	4.186	96	196374	21.957	ug/l	86
11) Methyl Iodide	4.425	142	273457	21.945	ug/l	97
12) Methyl Acetate	4.859	43	459081	17.824	ug/l #	89
13) Acrolein	4.044	56	180596	255.020	ug/l	98
14) Acrylonitrile	5.556	53	660134	93.942	ug/l	99
15) Acetone	4.288	58	278773	119.058	ug/l	74
16) Carbon Disulfide	4.532	76	592336	26.497	ug/l	98
17) Allyl chloride	4.843	41	427338	22.481	ug/l	86
18) Methylene Chloride	5.098	84	232993	20.449	ug/l #	83
19) trans-1,2-Dichloroethene	5.599	96	208126	21.206	ug/l #	83
20) Diisopropyl ether	6.498	45	826125	20.282	ug/l #	94
21) 1,1-Dichloroethane	6.391	63	437082	21.152	ug/l	99
22) cis-1,2-Dichloroethene	7.329	96	240468	19.755	ug/l	89
23) tert-Butyl Alcohol	5.374	59	189796	77.607	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	672050	18.750	ug/l	94
25) Chloroform	7.817	83	437334	20.469	ug/l	99
26) Cyclohexane	8.099	56	404447	20.615	ug/l #	87
29) 1,1-Dichloropropene	8.222	75	326794	21.757	ug/l	94
30) 2-Butanone	7.337	43	1121735	103.176	ug/l #	91
31) 2,2-Dichloropropane	7.324	77	326802	20.581	ug/l	96
32) 1,1,1-Trichloroethane	8.016	97	367577	20.963	ug/l #	92
33) Carbon Tetrachloride	8.206	117	332469	22.957	ug/l	98
34) Benzene	8.461	78	957125	20.954	ug/l #	94
35) Methacrylonitrile	7.638	41	189545	19.009	ug/l	90
36) 1,2-Dichloroethane	8.531	62	375636	21.331	ug/l	98
37) Trichloroethene	9.217	130	224203	20.317	ug/l	91
38) Methylcyclohexane	9.459	83	377624	20.321	ug/l	88
39) 1,2-Dichloropropane	9.491	63	253314	20.939	ug/l	100
40) Dibromomethane	9.577	93	169358	20.903	ug/l	95
41) Bromodichloromethane	9.759	83	354093	23.284	ug/l	94
42) Vinyl Acetate	6.436	43	3132380m	101.950	ug/l	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121321\
 Data File : VN070026.D
 Acq On : 13 Dec 2021 10:45
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/14/2021
 Supervised By : Amit Patel 12/15/2021

Quant Time: Dec 13 13:22:49 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 13 13:20:37 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	360196	17.877	ug/l	98
44) Isopropyl Acetate	8.560	43	587713	18.710	ug/l	95
45) 1,4-Dioxane	9.566	88	86123	337.757	ug/l #	86
46) Methyl methacrylate	9.558	41	283793	19.617	ug/l	82
47) n-amyl Acetate	12.387	43	362644	15.034	ug/l	99
48) t-1,3-Dichloropropene	10.717	75	332169	20.353	ug/l	97
49) cis-1,3-Dichloropropene	10.188	75	368360	20.742	ug/l	93
50) 1,1,2-Trichloroethane	10.899	97	226487	19.686	ug/l	97
51) Ethyl methacrylate	10.762	69	329553	17.085	ug/l	90
52) 1,3-Dichloropropane	11.044	76	402616	20.259	ug/l	98
53) Dibromochloromethane	11.237	129	249633	22.706	ug/l	100
54) 1,2-Dibromoethane	11.344	107	222049	18.636	ug/l	96
55) 2-Chloroethyl vinyl ether	10.041	63	304343	69.363	ug/l	96
56) Bromoform	12.457	173	183066	23.220	ug/l #	99
58) 4-Methyl-2-Pentanone	10.330	43	1920965	99.083	ug/l #	93
59) 2-Hexanone	11.084	43	1422976	96.490	ug/l	94
61) Tetrachloroethene	10.977	164	207403	21.879	ug/l	94
62) Toluene	10.505	91	1019668	21.009	ug/l	99
64) Chlorobenzene	11.771	112	593027	20.366	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.840	131	224767	21.925	ug/l	99
66) Ethyl Benzene	11.843	91	1122131	20.888	ug/l	98
67) m/p-Xylenes	11.953	106	821860	41.189	ug/l	93
68) o-Xylene	12.280	106	404151	20.229	ug/l	96
69) Styrene	12.294	104	647191	19.981	ug/l	97
70) Isopropylbenzene	12.578	105	1050737	20.110	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.825	83	347914	20.180	ug/l	97
72) 1,2,3-Trichloropropane	12.878	75	338291m	20.142	ug/l	
73) Bromobenzene	12.860	156	242384	20.124	ug/l	92
74) n-propylbenzene	12.921	91	1205983	20.098	ug/l	99
75) 2-Chlorotoluene	13.007	91	741553	20.301	ug/l	95
76) 1,3,5-Trimethylbenzene	13.058	105	863440	20.134	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	89632	19.770	ug/l	85
78) 4-Chlorotoluene	13.106	91	705102	20.156	ug/l	93
79) tert-butylbenzene	13.323	119	733353	19.440	ug/l	98
80) 1,2,4-Trimethylbenzene	13.366	105	841034m	20.104	ug/l	
81) sec-Butylbenzene	13.503	105	1019907	19.323	ug/l	100
82) p-Isopropyltoluene	13.616	119	822512	19.531	ug/l	99
83) 1,3-Dichlorobenzene	13.616	146	408388	19.832	ug/l	99
84) 1,4-Dichlorobenzene	13.694	146	387993	19.422	ug/l	98
85) n-Butylbenzene	13.943	91	647784	18.430	ug/l	99
86) Hexachloroethane	14.209	117	157858	22.649	ug/l	87
87) 1,2-Dichlorobenzene	13.989	146	398732	20.063	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.603	75	60177	19.939	ug/l	94
89) 1,2,4-Trichlorobenzene	15.263	180	170568	17.900	ug/l	96
90) Hexachlorobutadiene	15.370	225	113706	22.066	ug/l	99
91) Naphthalene	15.507	128	389581	14.192	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	163627	17.467	ug/l	99

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

