

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041321\
 Data File : VN066591.D
 Acq On : 13 Apr 2021 20:38
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 4/14/2021 1:47:23 PM

Quant Time: Apr 14 13:19:06 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Apr 14 12:32:37 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.099	128	46113	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.510	114	210215	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.347	117	211124	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.944	65	128743	30.28	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.93%			
60) 4-Bromofluorobenzene	12.345	95	97562	30.35	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.17%			
63) Toluene-d8	10.025	98	312119	30.85	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.83%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.816	85	58223	17.50	ug/l	90
3) Chloromethane	2.017	50	86088	18.45	ug/l	97
4) Vinyl Chloride	2.143	62	75238	17.61	ug/l	99
5) Bromomethane	2.508	94	49591	17.37	ug/l	97
6) Chloroethane	2.647	64	55067	19.33	ug/l	99
7) Trichlorofluoromethane	2.955	101	112261	18.26	ug/l	99
8) Diethyl Ether	3.336	74	39778	17.54	ug/l	66
9) 1,1,2-Trichlorotrifluo...	3.672	101	56666	17.85	ug/l	89
10) 1,1-Dichloroethene	3.656	96	55804	18.03	ug/l	84
11) Methyl Iodide	3.865	142	67386	17.56	ug/l	89
12) Methyl Acetate	4.232	43	106260	16.54	ug/l #	88
13) Acrolein	3.527	56	56570	82.04	ug/l	99
14) Acrylonitrile	4.873	53	139450m	81.86	ug/l	
15) Acetone	3.733	58	45782	72.95	ug/l	79
16) Carbon Disulfide	3.956	76	182340	17.13	ug/l	99
17) Allyl chloride	4.221	41	153655	18.79	ug/l	93
18) Methylene Chloride	4.444	84	58090	16.57	ug/l #	82
19) trans-1,2-Dichloroethene	4.921	96	52302	17.67	ug/l	94
20) Diisopropyl ether	5.857	45	217532	18.24	ug/l #	94
21) 1,1-Dichloroethane	5.739	63	113168	17.86	ug/l	99
22) cis-1,2-Dichloroethene	6.729	96	56121	17.50	ug/l	91
23) tert-Butyl Alcohol	4.710	59	44193m	77.91	ug/l	
24) Methyl tert-Butyl Ether	4.943	73	158463	17.02	ug/l	91
25) Chloroform	7.279	83	108934	17.51	ug/l	91
26) Cyclohexane	7.563	56	81861	15.13	ug/l #	96
29) 1,1-Dichloropropene	7.705	75	72779	17.39	ug/l	96
30) 2-Butanone	6.740	43	192890	81.55	ug/l #	90
31) 2,2-Dichloropropane	6.718	77	89966	17.62	ug/l	97
32) 1,1,1-Trichloroethane	7.480	97	98243	19.13	ug/l	97
33) Carbon Tetrachloride	7.684	117	81178	18.74	ug/l	92
34) Benzene	7.957	78	232150	18.47	ug/l #	92
35) Methacrylonitrile	7.075	41	36923	16.10	ug/l	91
36) 1,2-Dichloroethane	8.043	62	94835	18.53	ug/l	96
37) Trichloroethene	8.762	130	50464	17.71	ug/l	99
38) Methylcyclohexane	9.009	83	68180	16.46	ug/l	84
39) 1,2-Dichloropropane	9.046	63	66319	18.72	ug/l	98
40) Dibromomethane	9.137	93	41511	18.58	ug/l	89
41) Bromodichloromethane	9.333	83	89074	18.26	ug/l	98
42) Vinyl Acetate	5.793	43	857846	86.93	ug/l #	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041321\
 Data File : VN066591.D
 Acq On : 13 Apr 2021 20:38
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 4/14/2021 1:47:23 PM

Quant Time: Apr 14 13:19:06 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Apr 14 12:32:37 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.839	43	81050	15.42	ug/l #	84
44) Isopropyl Acetate	8.089	43	141842m	17.24	ug/l	
45) 1,4-Dioxane	9.135	88	15750	351.59	ug/l #	93
46) Methyl methacrylate	9.132	41	62429	16.59	ug/l	92
47) n-amyl Acetate	12.026	43	32302	13.52	ug/l	99
48) t-1,3-Dichloropropene	10.318	75	81172	17.12	ug/l	99
49) cis-1,3-Dichloropropene	9.776	75	88294	17.49	ug/l	93
50) 1,1,2-Trichloroethane	10.500	97	57229	18.96	ug/l	97
51) Ethyl methacrylate	10.368	69	63415	16.50	ug/l	87
52) 1,3-Dichloropropane	10.645	76	96400	18.65	ug/l	98
53) Dibromochloromethane	10.841	129	61241	18.62	ug/l	99
54) 1,2-Dibromoethane	10.945	107	54162	18.29	ug/l	100
55) 2-Chloroethyl vinyl ether	9.631	63	31227	87.85	ug/l	99
56) Bromoform	12.069	173	37741	17.68	ug/l #	98
58) 4-Methyl-2-Pentanone	9.921	43	431888	86.56	ug/l #	91
59) 2-Hexanone	10.693	43	269022	83.19	ug/l	91
61) Tetrachloroethene	10.570	164	42943	16.61	ug/l	92
62) Toluene	10.090	91	238490	18.29	ug/l	100
64) Chlorobenzene	11.374	112	134738	17.83	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.449	131	58010	18.64	ug/l	98
66) Ethyl Benzene	11.452	91	238136	17.86	ug/l	94
67) m/p-Xylenes	11.562	106	176641	35.54	ug/l	97
68) o-Xylene	11.889	106	80669	17.73	ug/l	95
69) Styrene	11.905	104	131023	17.33	ug/l	96
70) Isopropylbenzene	12.192	105	217332	18.03	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.447	83	83228	18.36	ug/l #	94
72) 1,2,3-Trichloropropane	12.498	75	71896m	17.53	ug/l	
73) Bromobenzene	12.466	156	53472	18.11	ug/l	86
74) n-propylbenzene	12.536	91	255465	17.92	ug/l	97
75) 2-Chlorotoluene	12.616	91	157216	17.61	ug/l	98
76) 1,3,5-Trimethylbenzene	12.678	105	181804	17.81	ug/l	100
77) t-1,4-Dichloro-2-butene	12.249	75	16336	17.01	ug/l	92
78) 4-Chlorotoluene	12.718	91	152417	18.31	ug/l	97
79) tert-butylbenzene	12.938	119	150481	17.94	ug/l	97
80) 1,2,4-Trimethylbenzene	12.983	105	179550	18.66	ug/l	95
81) sec-Butylbenzene	13.115	105	201472	17.59	ug/l	97
82) p-Isopropyltoluene	13.233	119	172199	18.00	ug/l	97
83) 1,3-Dichlorobenzene	13.227	146	94419	18.27	ug/l	97
84) 1,4-Dichlorobenzene	13.308	146	85218	16.51	ug/l	96
85) n-Butylbenzene	13.563	91	126138	14.94	ug/l	98
86) Hexachloroethane	13.815	117	41872	18.13	ug/l	85
87) 1,2-Dichlorobenzene	13.598	146	88944	17.61	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.241	75	14702m	17.92	ug/l	
89) 1,2,4-Trichlorobenzene	14.981	180	44081	15.18	ug/l	98
90) Hexachlorobutadiene	15.108	225	26688	15.93	ug/l	79
91) Naphthalene	15.266	128	102004	12.40	ug/l	97
92) 1,2,3-Trichlorobenzene	15.502	180	43469	14.55	ug/l	98

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

