

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040921\
 Data File : VN066553.D
 Acq On : 9 Apr 2021 10:41
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 4/12/2021 11:44:03 AM

Quant Time: Apr 12 02:24:05 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Apr 12 02:23:50 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.107	128	58872	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.513	114	304278	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.350	117	284977	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.947	65	140141	30.97	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.23%			
60) 4-Bromofluorobenzene	12.345	95	126513	28.45	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.83%			
63) Toluene-d8	10.025	98	415537	31.07	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.57%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.818	85	69123	20.99	ug/l	95
3) Chloromethane	2.017	50	88712	21.43	ug/l	99
4) Vinyl Chloride	2.146	62	95581	21.97	ug/l	97
5) Bromomethane	2.502	94	65801	21.37	ug/l	95
6) Chloroethane	2.642	64	66231	23.77	ug/l	96
7) Trichlorofluoromethane	2.955	101	133535	21.28	ug/l	99
8) Diethyl Ether	3.339	74	37148	17.53	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.677	101	59414	19.35	ug/l	77
10) 1,1-Dichloroethene	3.658	96	55544	18.27	ug/l	94
11) Methyl Iodide	3.870	142	81582	18.66	ug/l	98
12) Methyl Acetate	4.229	43	80881m	17.14	ug/l	
13) Acrolein	3.527	56	58854	237.98	ug/l	91
14) Acrylonitrile	4.878	53	161445	82.94	ug/l	98
15) Acetone	3.733	58	55207	97.40	ug/l	89
16) Carbon Disulfide	3.967	76	174233	20.69	ug/l	100
17) Allyl chloride	4.229	41	94241	17.16	ug/l	98
18) Methylene Chloride	4.452	84	69092	19.02	ug/l	96
19) trans-1,2-Dichloroethene	4.932	96	63023	18.85	ug/l	97
20) Diisopropyl ether	5.849	45	228510	18.96	ug/l	96
21) 1,1-Dichloroethane	5.745	63	125515	19.23	ug/l	98
22) cis-1,2-Dichloroethene	6.729	96	71636	17.90	ug/l	97
23) tert-Butyl Alcohol	4.683	59	55021	68.85	ug/l #	100
24) Methyl tert-Butyl Ether	4.935	73	191873	16.54	ug/l	96
25) Chloroform	7.284	83	127665	19.37	ug/l	99
26) Cyclohexane	7.571	56	103543	17.89	ug/l #	97
29) 1,1-Dichloropropene	7.711	75	88993	19.56	ug/l	83
30) 2-Butanone	6.734	43	241867	90.69	ug/l	99
31) 2,2-Dichloropropane	6.726	77	109712	19.46	ug/l	98
32) 1,1,1-Trichloroethane	7.483	97	107170	19.43	ug/l	99
33) Carbon Tetrachloride	7.692	117	94574	20.31	ug/l	99
34) Benzene	7.963	78	283515	20.44	ug/l	99
35) Methacrylonitrile	7.091	41	49275m	21.84	ug/l	
36) 1,2-Dichloroethane	8.046	62	99204	19.53	ug/l	99
37) Trichloroethene	8.765	130	68077	18.82	ug/l	100
38) Methylcyclohexane	9.011	83	100714	17.89	ug/l	95
39) 1,2-Dichloropropane	9.049	63	76583	20.41	ug/l	99
40) Dibromomethane	9.140	93	47402	19.64	ug/l	99
41) Bromodichloromethane	9.336	83	100269	19.63	ug/l	98
42) Vinyl Acetate	5.790	43	978244	97.32	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.831	43	97185	18.92	ug/l #	93
44) Isopropyl Acetate	8.086	43	167330m	18.24	ug/l	
45) 1,4-Dioxane	9.129	88	18240	311.74	ug/l #	90
46) Methyl methacrylate	9.135	41	71796	16.76	ug/l	94
47) n-amyl Acetate	12.029	43	35366	11.66	ug/l	98
48) t-1,3-Dichloropropene	10.320	75	103569	18.66	ug/l	99
49) cis-1,3-Dichloropropene	9.776	75	112351	18.84	ug/l	96
50) 1,1,2-Trichloroethane	10.500	97	67956	19.67	ug/l	99
51) Ethyl methacrylate	10.371	69	87529	16.19	ug/l	96
52) 1,3-Dichloropropane	10.647	76	112723	19.57	ug/l	98
53) Dibromochloromethane	10.843	129	76460	19.70	ug/l	99
54) 1,2-Dibromoethane	10.945	107	68172	19.18	ug/l	98
55) 2-Chloroethyl vinyl ether	9.631	63	64625	80.40	ug/l	99
56) Bromoform	12.072	173	51645	18.14	ug/l #	100
58) 4-Methyl-2-Pentanone	9.918	43	488922	85.63	ug/l	97
59) 2-Hexanone	10.693	43	319670	81.36	ug/l	97
61) Tetrachloroethene	10.570	164	63156	16.10	ug/l	95
62) Toluene	10.092	91	302601	19.18	ug/l	99
64) Chlorobenzene	11.374	112	174800	18.86	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.449	131	67535	18.57	ug/l	98
66) Ethyl Benzene	11.455	91	305945	18.00	ug/l	98
67) m/p-Xylenes	11.565	106	228713	36.21	ug/l	99
68) o-Xylene	11.892	106	110047	17.65	ug/l	100
69) Styrene	11.911	104	170824	17.10	ug/l	99
70) Isopropylbenzene	12.195	105	289812	17.67	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.450	83	95711	18.22	ug/l	99
72) 1,2,3-Trichloropropane	12.498	75	85984m	16.96	ug/l	
73) Bromobenzene	12.468	156	74458	18.42	ug/l	97
74) n-propylbenzene	12.535	91	333053	18.37	ug/l	100
75) 2-Chlorotoluene	12.619	91	200374	18.25	ug/l	100
76) 1,3,5-Trimethylbenzene	12.678	105	243666	18.05	ug/l	99
77) t-1,4-Dichloro-2-butene	12.246	75	23045	14.01	ug/l	97
78) 4-Chlorotoluene	12.718	91	193180	17.94	ug/l	100
79) tert-butylbenzene	12.938	119	201591	17.18	ug/l	98
80) 1,2,4-Trimethylbenzene	12.983	105	234048	17.87	ug/l	98
81) sec-Butylbenzene	13.115	105	273688	18.27	ug/l	98
82) p-Isopropyltoluene	13.233	119	232910	17.65	ug/l	99
83) 1,3-Dichlorobenzene	13.227	146	121505	18.33	ug/l	99
84) 1,4-Dichlorobenzene	13.308	146	113481	17.58	ug/l	97
85) n-Butylbenzene	13.560	91	187843	17.45	ug/l	98
86) Hexachloroethane	13.815	117	48779	20.02	ug/l	96
87) 1,2-Dichlorobenzene	13.598	146	120762	18.41	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.233	75	14831	13.84	ug/l	95
89) 1,2,4-Trichlorobenzene	14.981	180	63274	15.12	ug/l	100
90) Hexachlorobutadiene	15.107	225	43968	19.39	ug/l	99
91) Naphthalene	15.266	128	142158	11.16	ug/l	99
92) 1,2,3-Trichlorobenzene	15.502	180	57177	13.95	ug/l	99

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

