

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041321\
 Data File : VN066573.D
 Acq On : 13 Apr 2021 12:32
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda

4/23/2021 2:17:10 PM

Quant Time: Apr 13 13:51:49 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Apr 13 13:47:30 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.096	128	48528	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.510	114	224149	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.347	117	218939	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.944	65	136412	35.42	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 118.07%#			
60) 4-Bromofluorobenzene	12.345	95	88122	25.65	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 85.50%			
63) Toluene-d8	10.025	98	323114	31.03	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.43%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.815	85	15115	5.46	ug/l	92
3) Chloromethane	2.014	50	25114	7.10	ug/l	92
4) Vinyl Chloride	2.140	62	21330	5.88	ug/l	96
5) Bromomethane	2.505	94	14322	5.65	ug/l	98
6) Chloroethane	2.642	64	15765	6.74	ug/l	97
7) Trichlorofluoromethane	2.955	101	32477	6.21	ug/l	94
8) Diethyl Ether	3.339	74	12732	7.14	ug/l	81
9) 1,1,2-Trichlorotrifluo...	3.669	101	18338m	7.09	ug/l	
10) 1,1-Dichloroethene	3.655	96	15407	6.04	ug/l	85
11) Methyl Iodide	3.865	142	19854m	5.55	ug/l	
12) Methyl Acetate	4.229	43	32419	7.83	ug/l	91
13) Acrolein	3.524	56	18934	57.12	ug/l	93
14) Acrylonitrile	4.873	53	36224	23.33	ug/l #	61
15) Acetone	3.738	58	20341	41.30	ug/l	84
16) Carbon Disulfide	3.956	76	52726	7.16	ug/l	99
17) Allyl chloride	4.219	41	38505	7.91	ug/l	93
18) Methylene Chloride	4.438	84	18255m	6.18	ug/l	
19) trans-1,2-Dichloroethene	4.924	96	14500	5.36	ug/l	86
20) Diisopropyl ether	5.855	45	57504	5.77	ug/l #	94
21) 1,1-Dichloroethane	5.729	63	34302m	6.39	ug/l	
22) cis-1,2-Dichloroethene	6.729	96	16294	5.14	ug/l	89
23) tert-Butyl Alcohol	4.699	59	13154m	21.85	ug/l	
24) Methyl tert-Butyl Ether	4.932	73	43274	4.72	ug/l #	59
25) Chloroform	7.279	83	34626	6.44	ug/l	95
26) Cyclohexane	7.558	56	21511	4.65	ug/l #	99
29) 1,1-Dichloropropene	7.702	75	19390	5.68	ug/l	93
30) 2-Butanone	6.742	43	58259	29.44	ug/l #	74
31) 2,2-Dichloropropane	6.715	77	29212	6.90	ug/l #	73
32) 1,1,1-Trichloroethane	7.480	97	27425m	6.54	ug/l	
33) Carbon Tetrachloride	7.686	117	23114	6.52	ug/l	97
34) Benzene	7.957	78	65367	6.29	ug/l #	52
35) Methacrylonitrile	7.069	41	10471m	6.13	ug/l	
36) 1,2-Dichloroethane	8.040	62	28955	7.48	ug/l	99
37) Trichloroethene	8.762	130	15712	5.97	ug/l	99
38) Methylcyclohexane	9.006	83	18973	4.71	ug/l	76
39) 1,2-Dichloropropane	9.043	63	18287	6.44	ug/l	92
40) Dibromomethane	9.137	93	12648	6.95	ug/l	85
41) Bromodichloromethane	9.330	83	25557	6.60	ug/l	89
42) Vinyl Acetate	5.787	43	227213	29.83	ug/l #	82

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43) Ethyl Acetate	6.836	43	20438	5.38	ug/l #	80
44) Isopropyl Acetate	8.086	43	40959m	6.07	ug/l	
45) 1,4-Dioxane	9.137	88	3993m	97.29	ug/l	
46) Methyl methacrylate	9.132	41	16162	5.18	ug/l	91
48) t-1,3-Dichloropropene	10.317	75	23075	5.63	ug/l	97
49) cis-1,3-Dichloropropene	9.776	75	24996	5.68	ug/l	94
50) 1,1,2-Trichloroethane	10.500	97	16588	6.47	ug/l	98
51) Ethyl methacrylate	10.371	69	15661	4.12	ug/l	73
52) 1,3-Dichloropropane	10.645	76	27031	6.26	ug/l	98
53) Dibromochloromethane	10.840	129	18307	6.45	ug/l	96
54) 1,2-Dibromoethane	10.945	107	15471	5.94	ug/l	98
55) 2-Chloroethyl vinyl ether	9.628	63	5592	10.40	ug/l	98
56) Bromoform	12.069	173	10413	5.08	ug/l #	98
58) 4-Methyl-2-Pentanone	9.920	43	110317	25.24	ug/l #	90
59) 2-Hexanone	10.693	43	63194	21.34	ug/l #	88
61) Tetrachloroethene	10.569	164	14181	4.93	ug/l	96
62) Toluene	10.089	91	66481	5.53	ug/l	99
64) Chlorobenzene	11.369	112	37920	5.39	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.449	131	16612	5.94	ug/l	98
66) Ethyl Benzene	11.452	91	61346	4.80	ug/l	97
67) m/p-Xylenes	11.562	106	42315	8.87	ug/l	94
68) o-Xylene	11.886	106	19106	4.12	ug/l	86
69) Styrene	11.908	104	30398	4.06	ug/l	95
70) Isopropylbenzene	12.189	105	50989	4.18	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.450	83	22508	5.62	ug/l	97
72) 1,2,3-Trichloropropane	12.498	75	18140m	4.85	ug/l	
73) Bromobenzene	12.468	156	14406	4.77	ug/l	88
74) n-propylbenzene	12.535	91	61545	4.49	ug/l	95
75) 2-Chlorotoluene	12.616	91	41272	4.96	ug/l	89
76) 1,3,5-Trimethylbenzene	12.677	105	43038	4.24	ug/l	97
77) t-1,4-Dichloro-2-butene	12.254	75	4069m	3.46	ug/l	
78) 4-Chlorotoluene	12.715	91	32962	4.03	ug/l	94
79) tert-butylbenzene	12.938	119	35025	4.02	ug/l	97
80) 1,2,4-Trimethylbenzene	12.986	105	37114	3.78	ug/l	96
81) sec-Butylbenzene	13.115	105	45753	4.08	ug/l	98
82) p-Isopropyltoluene	13.233	119	37691	3.82	ug/l	97
83) 1,3-Dichlorobenzene	13.230	146	23384	4.65	ug/l	95
84) 1,4-Dichlorobenzene	13.310	146	15499	3.23	ug/l	98
85) n-Butylbenzene	13.571	91	25217	3.17	ug/l	87
86) Hexachloroethane	13.812	117	11471	6.05	ug/l	68
87) 1,2-Dichlorobenzene	13.600	146	22252	4.51	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.238	75	3741m	4.69	ug/l	
89) 1,2,4-Trichlorobenzene	14.989	180	11146m	3.67	ug/l	
90) Hexachlorobutadiene	15.105	225	8544	5.01	ug/l	99
91) Naphthalene	15.274	128	25611m	2.87	ug/l	
92) 1,2,3-Trichlorobenzene	15.507	180	12206m	4.09	ug/l	

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

