

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082823\
 Data File : VN079078.D
 Acq On : 28 Aug 2023 19:44
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Aug 29 05:23:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	39848	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	216417	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	196248	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	95090	29.455	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.200%
60) 4-Bromofluorobenzene	12.853	95	84840	29.636	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.800%
63) Toluene-d8	10.571	98	285722	31.177	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.933%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	46425	18.463	ug/l	93
3) Chloromethane	2.365	50	55346	18.366	ug/l	90
4) Vinyl Chloride	2.512	62	56999	19.111	ug/l	90
5) Bromomethane	2.959	94	32310	17.550	ug/l	95
6) Chloroethane	3.118	64	39775	20.522	ug/l	99
7) Trichlorofluoromethane	3.501	101	76267	18.986	ug/l	94
8) Diethyl Ether	3.959	74	27403	18.137	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	42253	20.140	ug/l	89
10) 1,1-Dichloroethene	4.348	96	39136	18.542	ug/l #	93
11) Methyl Iodide	4.589	142	50374	19.778	ug/l	94
12) Methyl Acetate	5.036	43	94513	19.104	ug/l	92
13) Acrolein	4.189	56	22652m	65.690	ug/l	
14) Acrylonitrile	5.730	53	127384	97.949	ug/l #	92
15) Acetone	4.442	58	31628	79.280	ug/l	98
16) Carbon Disulfide	4.712	76	107000	17.643	ug/l	99
17) Allyl chloride	5.024	41	61441	15.882	ug/l	96
18) Methylene Chloride	5.283	84	50512	20.019	ug/l	99
19) trans-1,2-Dichloroethene	5.795	96	43963	18.506	ug/l	95
20) Diisopropyl ether	6.683	45	163183	19.391	ug/l #	88
21) 1,1-Dichloroethane	6.571	63	92939	19.903	ug/l	98
22) cis-1,2-Dichloroethene	7.489	96	53247	19.584	ug/l	97
23) tert-Butyl Alcohol	5.536	59	43874	90.441	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	142549	19.026	ug/l	99
25) Chloroform	7.971	83	93163	19.804	ug/l	98
26) Cyclohexane	8.259	56	66606	19.499	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	65464	19.885	ug/l	98
30) 2-Butanone	7.494	43	177064	91.873	ug/l	99
31) 2,2-Dichloropropane	7.494	77	60810	16.713	ug/l	96
32) 1,1,1-Trichloroethane	8.171	97	79752	20.290	ug/l	98
33) Carbon Tetrachloride	8.365	117	70237	20.630	ug/l	95
34) Benzene	8.612	78	197383	20.007	ug/l	99
35) Methacrylonitrile	7.783	41	40998	19.959	ug/l	96
36) 1,2-Dichloroethane	8.677	62	74630	20.200	ug/l	96
37) Trichloroethene	9.359	130	47058	19.162	ug/l	94
38) Methylcyclohexane	9.612	83	60665	20.930	ug/l	99
39) 1,2-Dichloropropane	9.624	63	53552	20.152	ug/l	94
40) Dibromomethane	9.712	93	36683	20.593	ug/l	98
41) Bromodichloromethane	9.894	83	71904	20.072	ug/l #	93
42) Vinyl Acetate	6.612	43	540116	99.399	ug/l	99

08/29/2023
 Supervised By :Semsettin
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08/29/2023

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	77398m	20.700	ug/l	97
44) Isopropyl Acetate	8.694	43	131043	19.891	ug/l	97
45) 1,4-Dioxane	9.700	88	20401	411.502	ug/l	95
46) Methyl methacrylate	9.688	41	56503	19.466	ug/l	95
47) n-amyl Acetate	12.500	43	93347	18.464	ug/l	96
48) t-1,3-Dichloropropene	10.841	75	74200	19.448	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	78727	19.243	ug/l	93
50) 1,1,2-Trichloroethane	11.024	97	51370	21.340	ug/l	99
51) Ethyl methacrylate	10.882	69	70726	18.983	ug/l	99
52) 1,3-Dichloropropane	11.171	76	86525	20.068	ug/l	99
53) Dibromochloromethane	11.365	129	50851	19.301	ug/l	97
54) 1,2-Dibromoethane	11.477	107	48196	19.502	ug/l	91
55) 2-Chloroethyl vinyl ether	10.165	63	131525	76.374	ug/l	98
56) Bromoform	12.582	173	35731	19.222	ug/l	97
58) 4-Methyl-2-Pentanone	10.453	43	383538	98.504	ug/l	99
59) 2-Hexanone	11.200	43	269628	94.514	ug/l	99
61) Tetrachloroethene	11.112	164	38054	20.027	ug/l	93
62) Toluene	10.635	91	213812	19.956	ug/l	97
64) Chlorobenzene	11.894	112	126857	19.692	ug/l	92
65) 1,1,1,2-Tetrachloroethane	11.965	131	48362	19.634	ug/l	96
66) Ethyl Benzene	11.971	91	218843	19.527	ug/l	99
67) m/p-Xylenes	12.076	106	167563	40.100	ug/l	99
68) o-Xylene	12.406	106	80979	19.654	ug/l	99
69) Styrene	12.418	104	131325	19.616	ug/l	98
70) Isopropylbenzene	12.700	105	202336	20.268	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	75741	20.239	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	60593m	19.736	ug/l	
73) Bromobenzene	12.982	156	51374	20.214	ug/l	97
74) n-propylbenzene	13.041	91	236603	20.912	ug/l	99
75) 2-Chlorotoluene	13.129	91	149118	20.776	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	169710	21.445	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	18986	16.641	ug/l	90
78) 4-Chlorotoluene	13.229	91	140233	20.394	ug/l	100
79) tert-butylbenzene	13.441	119	147985	22.129	ug/l	96
80) 1,2,4-Trimethylbenzene	13.488	105	167371	21.509	ug/l	100
81) sec-Butylbenzene	13.623	105	196545	22.270	ug/l	99
82) p-Isopropyltoluene	13.735	119	156527	21.723	ug/l	98
83) 1,3-Dichlorobenzene	13.741	146	85442	20.831	ug/l	95
84) 1,4-Dichlorobenzene	13.818	146	78562	19.509	ug/l	99
85) n-Butylbenzene	14.065	91	117173	20.676	ug/l	100
86) Hexachloroethane	14.335	117	32453	22.012	ug/l	99
87) 1,2-Dichlorobenzene	14.112	146	86290	20.541	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	12555	18.692	ug/l	95
89) 1,2,4-Trichlorobenzene	15.847	180	32561	19.626	ug/l	95
90) Hexachlorobutadiene	15.512	225	19174	22.198	ug/l	96
91) Naphthalene	15.647	128	78597	16.425	ug/l	100
92) 1,2,3-Trichlorobenzene	15.847	180	32561	19.626	ug/l	95

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

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