

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110823\
 Data File : VN080020.D
 Acq On : 09 Nov 2023 03:04
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/09/2023
 Supervised By :Semsettin Yesilyurt 11/09/2023

Quant Time: Nov 09 04:34:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 09 04:02:05 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	72792	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	355361	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	334042	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	185306	30.327	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.100%			
60) 4-Bromofluorobenzene	12.853	95	152927	28.628	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.433%			
63) Toluene-d8	10.571	98	484054	30.583	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.933%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	78426	16.524	ug/l	99
3) Chloromethane	2.360	50	109907	18.382	ug/l	93
4) Vinyl Chloride	2.512	62	96930	19.400	ug/l	100
5) Bromomethane	2.965	94	37641	13.759	ug/l	97
6) Chloroethane	3.124	64	63104	21.744	ug/l	99
7) Trichlorofluoromethane	3.495	101	130111	17.351	ug/l	100
8) Diethyl Ether	3.965	74	48175	17.896	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.383	101	71038m	16.768	ug/l	
10) 1,1-Dichloroethene	4.348	96	68243	18.209	ug/l	90
11) Methyl Iodide	4.595	142	59367	11.976	ug/l	93
12) Methyl Acetate	5.024	43	176589	18.174	ug/l	95
13) Acrolein	4.183	56	67584	82.326	ug/l	95
14) Acrylonitrile	5.718	53	211519	91.652	ug/l	98
15) Acetone	4.430	58	52848	67.818	ug/l	90
16) Carbon Disulfide	4.712	76	206283	16.119	ug/l	99
17) Allyl chloride	5.024	41	107371m	16.396	ug/l	
18) Methylene Chloride	5.283	84	97298	19.359	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	79907	17.201	ug/l	94
20) Diisopropyl ether	6.671	45	283432	18.520	ug/l	98
21) 1,1-Dichloroethane	6.571	63	168571	18.453	ug/l	96
22) cis-1,2-Dichloroethene	7.489	96	94932	17.610	ug/l	96
23) tert-Butyl Alcohol	5.524	59	46941	75.355	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	252010	18.262	ug/l	98
25) Chloroform	7.965	83	178478	18.927	ug/l	94
26) Cyclohexane	8.265	56	110802	15.418	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	112076	18.376	ug/l	99
30) 2-Butanone	7.489	43	263009	90.298	ug/l	100
31) 2,2-Dichloropropane	7.489	77	106936	16.222	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	140110	20.123	ug/l	100
33) Carbon Tetrachloride	8.365	117	117903	19.266	ug/l	100
34) Benzene	8.606	78	368732	20.352	ug/l	97
35) Methacrylonitrile	7.783	41	60888	19.939	ug/l	92
36) 1,2-Dichloroethane	8.671	62	143195	21.839	ug/l	100
37) Trichloroethene	9.353	130	82929	19.033	ug/l	98
38) Methylcyclohexane	9.606	83	96464	16.845	ug/l	97
39) 1,2-Dichloropropane	9.624	63	99243	20.695	ug/l	100
40) Dibromomethane	9.712	93	66726	21.527	ug/l	98
41) Bromodichloromethane	9.888	83	136069	21.195	ug/l	97
42) Vinyl Acetate	6.606	43	703032	97.174	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	116288	21.253	ug/l	98
44) Isopropyl Acetate	8.689	43	176375	19.783	ug/l	93
45) 1,4-Dioxane	9.700	88	26057	379.245	ug/l #	82
46) Methyl methacrylate	9.683	41	88624	20.679	ug/l	90
47) n-amyl Acetate	12.500	43	132820	18.547	ug/l	93
48) t-1,3-Dichloropropene	10.841	75	122708	18.716	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	139686	19.272	ug/l	93
50) 1,1,2-Trichloroethane	11.018	97	91342	21.602	ug/l	88
51) Ethyl methacrylate	10.877	69	115390	18.987	ug/l	96
52) 1,3-Dichloropropane	11.165	76	159535	21.104	ug/l	99
53) Dibromochloromethane	11.359	129	95472	21.106	ug/l	99
54) 1,2-Dibromoethane	11.471	107	87425	20.591	ug/l	93
55) 2-Chloroethyl vinyl ether	10.165	63	283339	101.366	ug/l	98
56) Bromoform	12.582	173	59991	20.239	ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	575393	103.104	ug/l	98
59) 2-Hexanone	11.200	43	401719	94.495	ug/l	98
61) Tetrachloroethene	11.106	164	78533	20.053	ug/l	90
62) Toluene	10.635	91	371746	19.241	ug/l	97
64) Chlorobenzene	11.894	112	217957	18.904	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	85815	20.291	ug/l	96
66) Ethyl Benzene	11.965	91	364368	17.947	ug/l	97
67) m/p-Xylenes	12.071	106	279596	36.991	ug/l	95
68) o-Xylene	12.400	106	135577	18.714	ug/l	99
69) Styrene	12.412	104	224650	18.732	ug/l	99
70) Isopropylbenzene	12.700	105	325269	17.999	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	127829	20.768	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	117170m	20.488	ug/l	
73) Bromobenzene	12.982	156	84557	19.033	ug/l	98
74) n-propylbenzene	13.035	91	387081	17.905	ug/l	100
75) 2-Chlorotoluene	13.129	91	248237	18.065	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	276723	18.514	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	28659	15.304	ug/l	96
78) 4-Chlorotoluene	13.224	91	247178	18.112	ug/l	100
79) tert-butylbenzene	13.441	119	209365	17.886	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	270322	18.444	ug/l	99
81) sec-Butylbenzene	13.618	105	296568	17.948	ug/l	98
82) p-Isopropyltoluene	13.729	119	244799	18.242	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	150603	18.604	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	143895	18.109	ug/l	98
85) n-Butylbenzene	14.059	91	193546	17.245	ug/l	100
86) Hexachloroethane	14.335	117	45411	17.403	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	148582	19.211	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.718	75	21487	19.089	ug/l	99
89) 1,2,4-Trichlorobenzene	15.841	180	62140	17.343	ug/l	97
90) Hexachlorobutadiene	15.506	225	31552	17.868	ug/l	97
91) Naphthalene	15.641	128	174874	15.209	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	62140	17.343	ug/l	97

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

