

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101322\
 Data File : VN074891.D
 Acq On : 13 Oct 2022 12:07
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Oct 14 05:03:58 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 13 07:52:24 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/14/2022
 Supervised By : Mahesh Dadoda 10/14/2022

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

Internal Standards						
1) Bromochloromethane	7.830	128	68454	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	406425	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	377585	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	207714	32.411	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.033%			
60) 4-Bromofluorobenzene	12.853	95	185893	27.762	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 92.533%			
63) Toluene-d8	10.571	98	652366	29.936	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.800%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.148	85	81436	21.423	ug/l	97
3) Chloromethane	2.383	50	136848	22.260	ug/l	89
4) Vinyl Chloride	2.536	62	190294	21.020	ug/l	99
5) Bromomethane	2.965	94	151471	21.103	ug/l	88
6) Chloroethane	3.130	64	155878	22.959	ug/l	99
7) Trichlorofluoromethane	3.512	101	153495	22.744	ug/l	99
8) Diethyl Ether	3.977	74	64970m	20.644	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.395	101	99656	23.465	ug/l	79
10) 1,1-Dichloroethene	4.365	96	88288m	21.134	ug/l	
11) Methyl Iodide	4.612	142	106015	20.329	ug/l	92
12) Methyl Acetate	5.047	43	201266	19.988	ug/l	90
13) Acrolein	4.206	56	145765	102.455	ug/l	100
14) Acrylonitrile	5.747	53	395937	105.428	ug/l	99
15) Acetone	4.453	58	129849	126.155	ug/l	99
16) Carbon Disulfide	4.730	76	220180m	20.515	ug/l	
17) Allyl chloride	5.042	41	181757m	21.852	ug/l	
18) Methylene Chloride	5.306	84	116123	21.436	ug/l #	93
19) trans-1,2-Dichloroethene	5.812	96	97127	21.179	ug/l	93
20) Diisopropyl ether	6.689	45	398220	20.509	ug/l	96
21) 1,1-Dichloroethane	6.583	63	207846	21.040	ug/l	98
22) cis-1,2-Dichloroethene	7.506	96	123244	21.461	ug/l	99
23) tert-Butyl Alcohol	5.547	59	159095	100.538	ug/l #	100
24) Methyl tert-Butyl Ether	5.818	73	371309	21.282	ug/l #	89
25) Chloroform	7.977	83	207518	21.155	ug/l	97
26) Cyclohexane	8.271	56	194288	22.391	ug/l #	94
29) 1,1-Dichloropropene	8.383	75	149590	20.399	ug/l	94
30) 2-Butanone	7.500	43	606277	103.619	ug/l #	95
31) 2,2-Dichloropropane	7.500	77	177314	19.753	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	185005	21.037	ug/l	98
33) Carbon Tetrachloride	8.371	117	145432	20.137	ug/l	93
34) Benzene	8.618	78	493838	20.373	ug/l #	89
35) Methacrylonitrile	7.800	41	105481m	17.541	ug/l	
36) 1,2-Dichloroethane	8.677	62	157563	19.519	ug/l	97
37) Trichloroethene	9.365	130	94244	18.695	ug/l	94
38) Methylcyclohexane	9.606	83	182728	20.511	ug/l	98
39) 1,2-Dichloropropane	9.630	63	126822	20.182	ug/l	96
40) Dibromomethane	9.718	93	83818	20.129	ug/l	98
41) Bromodichloromethane	9.894	83	163024	20.103	ug/l #	96
42) Vinyl Acetate	6.624	43	1789329m	102.663	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	213825	18.796	ug/l	98
44) Isopropyl Acetate	8.694	43	351823	19.999	ug/l	98
45) 1,4-Dioxane	9.700	88	56921	352.864	ug/l #	87
46) Methyl methacrylate	9.688	41	136487	17.914	ug/l	97
47) n-amyl Acetate	12.500	43	285677	18.560	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	178219	19.155	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	195640	19.829	ug/l	98
50) 1,1,2-Trichloroethane	11.018	97	121463	19.822	ug/l	97
51) Ethyl methacrylate	10.876	69	200133	19.207	ug/l	96
52) 1,3-Dichloropropane	11.165	76	212632	20.104	ug/l	99
53) Dibromochloromethane	11.365	129	110430	18.394	ug/l	100
54) 1,2-Dibromoethane	11.471	107	119446	20.289	ug/l	100
55) 2-Chloroethyl vinyl ether	10.165	63	385825	94.662	ug/l	99
56) Bromoform	12.582	173	76943	17.785	ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	1141426	97.201	ug/l	97
59) 2-Hexanone	11.200	43	861930	95.374	ug/l	97
61) Tetrachloroethene	11.106	164	81169	20.164	ug/l #	85
62) Toluene	10.635	91	520837	19.966	ug/l	98
64) Chlorobenzene	11.894	112	294025	19.829	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.965	131	105934	18.968	ug/l	99
66) Ethyl Benzene	11.965	91	548733	19.344	ug/l	100
67) m/p-Xylenes	12.076	106	418733	39.293	ug/l	96
68) o-Xylene	12.400	106	217888	20.115	ug/l	94
69) Styrene	12.412	104	331045	18.672	ug/l	98
70) Isopropylbenzene	12.700	105	546481	19.561	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.941	83	201806	19.310	ug/l	94
72) 1,2,3-Trichloropropane	12.994	75	172599m	19.659	ug/l	
73) Bromobenzene	12.982	156	107536	18.368	ug/l	96
74) n-propylbenzene	13.041	91	627675	19.270	ug/l	97
75) 2-Chlorotoluene	13.123	91	363858	19.095	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	432786	19.063	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	66462	18.220	ug/l	88
78) 4-Chlorotoluene	13.223	91	335864	18.470	ug/l	98
79) tert-butylbenzene	13.441	119	377072	18.672	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	442348	19.365	ug/l	97
81) sec-Butylbenzene	13.617	105	560273	19.304	ug/l	99
82) p-Isopropyltoluene	13.729	119	433627	18.803	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	205720	18.009	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	204510	18.639	ug/l	97
85) n-Butylbenzene	14.059	91	380900	18.712	ug/l	95
86) Hexachloroethane	14.335	117	88910	19.686	ug/l	96
87) 1,2-Dichlorobenzene	14.106	146	216890	19.122	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	37562	17.809	ug/l	96
89) 1,2,4-Trichlorobenzene	15.400	180	96936	18.713	ug/l	97
90) Hexachlorobutadiene	15.500	225	47470	18.795	ug/l	78
91) Naphthalene	15.641	128	361570	17.591	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	92908	17.145	ug/l	94

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

