

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051424\
 Data File : VN082114.D
 Acq On : 14 May 2024 13:28
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: May 15 02:45:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 14 11:29:16 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 05/15/2024
 Supervised By : Mahesh Dadoda 05/15/2024

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

Internal Standards						
1) Bromochloromethane	7.818	128	63096	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	362225	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	343026	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	177842	33.665	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 112.200%#			
60) 4-Bromofluorobenzene	12.853	95	153986	26.974	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 89.900%			
63) Toluene-d8	10.565	98	470901	28.907	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.367%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	65018	18.153	ug/l	95
3) Chloromethane	2.359	50	79668	19.180	ug/l	98
4) Vinyl Chloride	2.518	62	87112	22.201	ug/l	100
5) Bromomethane	2.965	94	49720m	24.283	ug/l	
6) Chloroethane	3.130	64	66675	30.008	ug/l	100
7) Trichlorofluoromethane	3.500	101	115788	20.166	ug/l	95
8) Diethyl Ether	3.965	74	47580	17.118	ug/l	75
9) 1,1,2-Trichlorotrifluo...	4.383	101	69354	17.600	ug/l	92
10) 1,1-Dichloroethene	4.347	96	63337	16.427	ug/l	85
11) Methyl Iodide	4.589	142	64626	18.350	ug/l	91
12) Methyl Acetate	5.024	43	115750	23.483	ug/l #	75
13) Acrolein	4.177	56	101865	99.237	ug/l	95
14) Acrylonitrile	5.718	53	214584	97.507	ug/l	97
15) Acetone	4.424	58	46050	92.785	ug/l #	52
16) Carbon Disulfide	4.712	76	151982	14.245	ug/l	97
17) Allyl chloride	5.030	41	126930m	18.392	ug/l	
18) Methylene Chloride	5.277	84	81908	18.694	ug/l #	75
19) trans-1,2-Dichloroethene	5.783	96	68015	16.948	ug/l	97
20) Diisopropyl ether	6.671	45	319996	21.392	ug/l #	93
21) 1,1-Dichloroethane	6.571	63	152636	19.271	ug/l	95
22) cis-1,2-Dichloroethene	7.488	96	88821	18.121	ug/l	87
23) tert-Butyl Alcohol	5.518	59	81782	90.201	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	263385	18.969	ug/l #	81
25) Chloroform	7.965	83	158534	20.805	ug/l	98
26) Cyclohexane	8.259	56	118460	17.399	ug/l #	84
29) 1,1-Dichloropropene	8.371	75	103219	19.141	ug/l	96
30) 2-Butanone	7.482	43	293576	105.612	ug/l #	89
31) 2,2-Dichloropropane	7.488	77	121658	22.014	ug/l	96
32) 1,1,1-Trichloroethane	8.171	97	134122	21.625	ug/l #	94
33) Carbon Tetrachloride	8.359	117	109525	21.760	ug/l	97
34) Benzene	8.606	78	335558	19.505	ug/l #	92
35) Methacrylonitrile	7.777	41	80149	22.790	ug/l	91
36) 1,2-Dichloroethane	8.671	62	128399	22.233	ug/l #	93
37) Trichloroethene	9.353	130	74096	17.584	ug/l	100
38) Methylcyclohexane	9.600	83	109860	16.864	ug/l	91
39) 1,2-Dichloropropane	9.618	63	89932	20.373	ug/l	96
40) Dibromomethane	9.706	93	57279	20.198	ug/l	94
41) Bromodichloromethane	9.888	83	130258	21.490	ug/l	98
42) Vinyl Acetate	6.606	43	1187052	100.329	ug/l #	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	127736	21.004	ug/l	95
44) Isopropyl Acetate	8.688	43	231181	21.488	ug/l #	84
45) 1,4-Dioxane	9.694	88	31186	361.406	ug/l #	87
46) Methyl methacrylate	9.682	41	105671	21.496	ug/l	73
47) n-amyl Acetate	12.494	43	201599m	20.779	ug/l	
48) t-1,3-Dichloropropene	10.835	75	128086	19.487	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	132043	19.000	ug/l #	72
50) 1,1,2-Trichloroethane	11.018	97	81379	21.152	ug/l	96
51) Ethyl methacrylate	10.876	69	131138m	18.060	ug/l	
52) 1,3-Dichloropropane	11.165	76	144996	20.513	ug/l	99
53) Dibromochloromethane	11.359	129	87613	20.930	ug/l	99
54) 1,2-Dibromoethane	11.470	107	77767	20.267	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	347992	95.838	ug/l	95
56) Bromoform	12.576	173	53845	21.135	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	685428	102.914	ug/l #	81
59) 2-Hexanone	11.194	43	496414	100.521	ug/l #	83
61) Tetrachloroethene	11.106	164	71649	18.824	ug/l	88
62) Toluene	10.629	91	361280	18.719	ug/l	98
64) Chlorobenzene	11.894	112	218419	18.502	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	77988	20.184	ug/l	95
66) Ethyl Benzene	11.965	91	397348	18.782	ug/l	99
67) m/p-Xylenes	12.070	106	288386	36.766	ug/l	99
68) o-Xylene	12.400	106	140272	18.075	ug/l	97
69) Styrene	12.412	104	239797	18.407	ug/l	99
70) Isopropylbenzene	12.694	105	373352	18.943	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	111026	19.575	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	88503m	19.069	ug/l	
73) Bromobenzene	12.982	156	82478	19.549	ug/l	95
74) n-propylbenzene	13.035	91	440551	18.932	ug/l	98
75) 2-Chlorotoluene	13.123	91	265137	18.431	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	298536	18.713	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	38546	16.324	ug/l	80
78) 4-Chlorotoluene	13.223	91	257618	18.280	ug/l	99
79) tert-butylbenzene	13.441	119	254602	18.535	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	303096	18.914	ug/l	100
81) sec-Butylbenzene	13.617	105	371208	19.279	ug/l	99
82) p-Isopropyltoluene	13.729	119	292263	19.195	ug/l	97
83) 1,3-Dichlorobenzene	13.735	146	159219	20.958	ug/l	95
84) 1,4-Dichlorobenzene	13.811	146	155623	20.380	ug/l	99
85) n-Butylbenzene	14.059	91	262268	18.858	ug/l	98
86) Hexachloroethane	14.329	117	54914	18.089	ug/l	90
87) 1,2-Dichlorobenzene	14.106	146	152712	20.183	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	22363	17.570	ug/l	90
89) 1,2,4-Trichlorobenzene	15.841	180	84178	20.204	ug/l	98
90) Hexachlorobutadiene	15.500	225	33707	21.844	ug/l	96
91) Naphthalene	15.641	128	266771	16.844	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	84178	20.204	ug/l	98

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

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