

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102523\
 Data File : VN079672.D
 Acq On : 25 Oct 2023 10:30
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/26/2023
 Supervised By : Mahesh Dadoda 10/26/2023

Quant Time: Oct 26 01:32:49 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	25684	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	187493	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	230519	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	119194	32.641	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.800%			
60) 4-Bromofluorobenzene	12.853	95	138298	32.807	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 109.367%			
63) Toluene-d8	10.570	98	309769	31.360	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 104.533%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	59332	15.930	ug/l	96
3) Chloromethane	2.371	50	75420	15.623	ug/l	94
4) Vinyl Chloride	2.518	62	83704	16.066	ug/l	95
5) Bromomethane	2.959	94	49929	15.456	ug/l	98
6) Chloroethane	3.124	64	63704	17.372	ug/l	97
7) Trichlorofluoromethane	3.500	101	134108	21.094	ug/l	95
8) Diethyl Ether	3.965	74	43697	18.964	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.377	101	75064m	20.637	ug/l	
10) 1,1-Dichloroethene	4.347	96	66813	19.306	ug/l	92
11) Methyl Iodide	4.589	142	75846	19.795	ug/l	94
12) Methyl Acetate	5.030	43	161951	19.412	ug/l	100
13) Acrolein	4.189	56	62309	90.350	ug/l	99
14) Acrylonitrile	5.724	53	199483	99.847	ug/l	99
15) Acetone	4.430	58	64782	102.358	ug/l	85
16) Carbon Disulfide	4.712	76	195828	18.557	ug/l	100
17) Allyl chloride	5.030	41	104985	19.676	ug/l	93
18) Methylene Chloride	5.277	84	87965	20.651	ug/l	97
19) trans-1,2-Dichloroethene	5.788	96	76796	19.836	ug/l	95
20) Diisopropyl ether	6.677	45	263721	20.845	ug/l	97
21) 1,1-Dichloroethane	6.571	63	163313	21.243	ug/l	96
22) cis-1,2-Dichloroethene	7.494	96	89777	20.133	ug/l	98
23) tert-Butyl Alcohol	5.530	59	55322	82.808	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	231290	19.919	ug/l	98
25) Chloroform	7.971	83	169306	21.795	ug/l	98
26) Cyclohexane	8.265	56	112057	19.282	ug/l #	100
29) 1,1-Dichloropropene	8.377	75	115029	20.994	ug/l	99
30) 2-Butanone	7.488	43	272221	99.115	ug/l	100
31) 2,2-Dichloropropane	7.494	77	130035	21.049	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	144194	22.141	ug/l	98
33) Carbon Tetrachloride	8.371	117	123453	22.289	ug/l	98
34) Benzene	8.612	78	356652	21.424	ug/l	99
35) Methacrylonitrile	7.782	41	59228	20.500	ug/l	94
36) 1,2-Dichloroethane	8.677	62	137309	23.101	ug/l	99
37) Trichloroethene	9.359	130	80552	20.701	ug/l	100
38) Methylcyclohexane	9.606	83	97146	18.415	ug/l	96
39) 1,2-Dichloropropane	9.623	63	92767	21.116	ug/l	92
40) Dibromomethane	9.712	93	63514	22.030	ug/l	98
41) Bromodichloromethane	9.894	83	132715	22.212	ug/l	98
42) Vinyl Acetate	6.606	43	694557	99.691	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	115434	22.351	ug/l #	92
44) Isopropyl Acetate	8.694	43	171577	18.689	ug/l	96
45) 1,4-Dioxane	9.700	88	29076	404.598	ug/l #	94
46) Methyl methacrylate	9.682	41	83500	20.501	ug/l	93
47) n-amyl Acetate	12.500	43	126041	19.023	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	123578	20.459	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	139161	21.070	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	89225	22.308	ug/l	96
51) Ethyl methacrylate	10.876	69	109799	19.897	ug/l	98
52) 1,3-Dichloropropane	11.165	76	153452	21.657	ug/l	99
53) Dibromochloromethane	11.365	129	90169	22.058	ug/l	98
54) 1,2-Dibromoethane	11.470	107	81675	20.699	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	196785	93.467	ug/l	98
56) Bromoform	12.582	173	58457	21.617	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	550613	102.406	ug/l	99
59) 2-Hexanone	11.200	43	394841	100.097	ug/l	98
61) Tetrachloroethene	11.106	164	69396	21.926	ug/l	92
62) Toluene	10.635	91	370932	21.055	ug/l	98
64) Chlorobenzene	11.894	112	213858	20.930	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.965	131	83635	21.487	ug/l	97
66) Ethyl Benzene	11.965	91	371889	20.487	ug/l	98
67) m/p-Xylenes	12.076	106	289010	43.047	ug/l	93
68) o-Xylene	12.400	106	135223	21.068	ug/l	98
69) Styrene	12.417	104	219037	21.497	ug/l	97
70) Isopropylbenzene	12.700	105	341752	20.748	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	124338	21.230	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	112975m	21.241	ug/l	
73) Bromobenzene	12.982	156	81148	20.972	ug/l	97
74) n-propylbenzene	13.041	91	405450	21.143	ug/l	100
75) 2-Chlorotoluene	13.129	91	261590	21.943	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	291481	21.647	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	32331	19.917	ug/l	98
78) 4-Chlorotoluene	13.223	91	244336	21.692	ug/l	98
79) tert-butylbenzene	13.441	119	227275	20.993	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	285263	21.864	ug/l	99
81) sec-Butylbenzene	13.617	105	314995	20.726	ug/l	100
82) p-Isopropyltoluene	13.735	119	252130	20.913	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	135503	21.297	ug/l	100
84) 1,4-Dichlorobenzene	13.817	146	127777	20.948	ug/l	98
85) n-Butylbenzene	14.059	91	178899	18.993	ug/l	99
86) Hexachloroethane	14.335	117	53994	20.717	ug/l	98
87) 1,2-Dichlorobenzene	14.111	146	130920	20.702	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	17107	19.169	ug/l	99
89) 1,2,4-Trichlorobenzene	15.841	180	35186	15.785	ug/l	98
90) Hexachlorobutadiene	15.505	225	32649	20.678	ug/l	99
91) Naphthalene	15.647	128	68362	11.889	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	35186	15.785	ug/l	98

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

