

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102023\
 Data File : VN079619.D
 Acq On : 20 Oct 2023 10:54
 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 10/23/2023
 Supervised By : Semsettin Yesilyurt 10/24/2023

Quant Time: Oct 20 23:45:48 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	7.812	128	20416	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.106	114	141502	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	175525	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	87083	30.001	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.000%			
60) 4-Bromofluorobenzene	12.853	95	101383	31.585	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.267%			
63) Toluene-d8	10.570	98	233649	31.065	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.533%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	57437	19.400	ug/l	95
3) Chloromethane	2.365	50	75529	19.683	ug/l	98
4) Vinyl Chloride	2.518	62	81481	19.674	ug/l	96
5) Bromomethane	2.965	94	45522	17.728	ug/l	97
6) Chloroethane	3.130	64	60021	20.591	ug/l	96
7) Trichlorofluoromethane	3.500	101	101416	20.068	ug/l	95
8) Diethyl Ether	3.971	74	35074	19.150	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	58384	20.193	ug/l	98
10) 1,1-Dichloroethene	4.341	96	53585	19.479	ug/l	90
11) Methyl Iodide	4.589	142	58650	19.257	ug/l	92
12) Methyl Acetate	5.030	43	133396	20.115	ug/l	99
13) Acrolein	4.183	56	53971	98.453	ug/l	99
14) Acrylonitrile	5.724	53	160134	100.833	ug/l	98
15) Acetone	4.430	58	51500	102.369	ug/l	78
16) Carbon Disulfide	4.718	76	156626	18.672	ug/l	100
17) Allyl chloride	5.030	41	76677m	18.079	ug/l	
18) Methylene Chloride	5.283	84	70785	20.906	ug/l	92
19) trans-1,2-Dichloroethene	5.794	96	62151	20.195	ug/l	92
20) Diisopropyl ether	6.671	45	206952	20.579	ug/l	92
21) 1,1-Dichloroethane	6.577	63	126777	20.745	ug/l	98
22) cis-1,2-Dichloroethene	7.494	96	69887	19.716	ug/l	98
23) tert-Butyl Alcohol	5.524	59	45847	86.333	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	180203	19.524	ug/l	100
25) Chloroform	7.971	83	130724	21.170	ug/l	89
26) Cyclohexane	8.265	56	85765	18.566	ug/l #	95
29) 1,1-Dichloropropene	8.377	75	87889	21.254	ug/l	98
30) 2-Butanone	7.488	43	222712	107.445	ug/l	100
31) 2,2-Dichloropropane	7.488	77	95184	20.415	ug/l #	78
32) 1,1,1-Trichloroethane	8.171	97	105017	21.367	ug/l	98
33) Carbon Tetrachloride	8.371	117	92024	22.015	ug/l	98
34) Benzene	8.612	78	274891	21.880	ug/l	98
35) Methacrylonitrile	7.788	41	47244	21.667	ug/l	92
36) 1,2-Dichloroethane	8.677	62	99157	22.104	ug/l	98
37) Trichloroethene	9.359	130	61544	20.956	ug/l	98
38) Methylcyclohexane	9.606	83	77199	19.390	ug/l	99
39) 1,2-Dichloropropane	9.623	63	73648	22.213	ug/l	99
40) Dibromomethane	9.712	93	50100	23.025	ug/l	98
41) Bromodichloromethane	9.894	83	101046	22.408	ug/l	98
42) Vinyl Acetate	6.612	43	542617	103.196	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	90480	23.214	ug/l	96
44) Isopropyl Acetate	8.694	43	143497	20.711	ug/l	97
45) 1,4-Dioxane	9.700	88	22384	412.714	ug/l #	95
46) Methyl methacrylate	9.682	41	64027	20.829	ug/l	97
47) n-amyl Acetate	12.500	43	100922	20.182	ug/l	96
48) t-1,3-Dichloropropene	10.841	75	94596	20.751	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	105466	21.158	ug/l	98
50) 1,1,2-Trichloroethane	11.018	97	69874	23.148	ug/l	96
51) Ethyl methacrylate	10.876	69	88168	21.171	ug/l	95
52) 1,3-Dichloropropane	11.165	76	119297	22.309	ug/l	99
53) Dibromochloromethane	11.365	129	70440	22.833	ug/l	99
54) 1,2-Dibromoethane	11.476	107	64408	21.628	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	151665	95.450	ug/l	99
56) Bromoform	12.582	173	44884	21.992	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	449797	109.866	ug/l	100
59) 2-Hexanone	11.200	43	319724	106.450	ug/l	98
61) Tetrachloroethene	11.106	164	51906	21.538	ug/l	97
62) Toluene	10.635	91	290177	21.631	ug/l	100
64) Chlorobenzene	11.894	112	164106	21.093	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.965	131	63744	21.508	ug/l	98
66) Ethyl Benzene	11.970	91	285046	20.623	ug/l	97
67) m/p-Xylenes	12.076	106	220748	43.181	ug/l	97
68) o-Xylene	12.406	106	102984	21.073	ug/l	98
69) Styrene	12.417	104	171248	22.073	ug/l	98
70) Isopropylbenzene	12.700	105	260974	20.808	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	99424	22.295	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	88928m	21.959	ug/l	
73) Bromobenzene	12.982	156	63400	21.519	ug/l	98
74) n-propylbenzene	13.041	91	307836	21.083	ug/l	97
75) 2-Chlorotoluene	13.129	91	192075	21.159	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	218553	21.317	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	25371	20.527	ug/l	93
78) 4-Chlorotoluene	13.223	91	182069	21.228	ug/l	99
79) tert-butylbenzene	13.441	119	171276	20.778	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	214356	21.577	ug/l	99
81) sec-Butylbenzene	13.623	105	246369	21.289	ug/l	100
82) p-Isopropyltoluene	13.735	119	188513	20.536	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	105456	21.767	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	98010	21.102	ug/l	99
85) n-Butylbenzene	14.059	91	136359	19.012	ug/l	98
86) Hexachloroethane	14.341	117	42345	21.337	ug/l	99
87) 1,2-Dichlorobenzene	14.111	146	104568	21.715	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	14714	21.654	ug/l	99
89) 1,2,4-Trichlorobenzene	15.841	180	28841	16.992	ug/l	98
90) Hexachlorobutadiene	15.505	225	24586	20.450	ug/l	94
91) Naphthalene	15.647	128	59929	13.688	ug/l #	95
92) 1,2,3-Trichlorobenzene	15.841	180	28841	16.992	ug/l	98

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

