

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090723\
 Data File : VN079173.D
 Acq On : 07 Sep 2023 10:44
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/08/2023
 Supervised By : Mahesh Dadoda 09/08/2023

Quant Time: Sep 08 04:47:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 04:47:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	33822	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	184800	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	165539	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	73531	28.894	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.300%		
60) 4-Bromofluorobenzene	12.853	95	75544	30.972	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	103.233%		
63) Toluene-d8	10.571	98	231014	29.861	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.533%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	35231	18.650	ug/l	100
3) Chloromethane	2.365	50	35749	18.873	ug/l	100
4) Vinyl Chloride	2.512	62	35072	18.715	ug/l	100
5) Bromomethane	2.948	94	20786	18.048	ug/l	100
6) Chloroethane	3.112	64	21295	18.554	ug/l	100
7) Trichlorofluoromethane	3.495	101	41515	18.608	ug/l	100
8) Diethyl Ether	3.959	74	16086	19.663	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	23600	20.789	ug/l	99
10) 1,1-Dichloroethene	4.336	96	23686	19.880	ug/l	100
11) Methyl Iodide	4.589	142	28635	19.081	ug/l	100
12) Methyl Acetate	5.036	43	51883	21.272	ug/l	100
13) Acrolein	4.189	56	25807	102.048	ug/l	100
14) Acrylonitrile	5.724	53	76896	105.177	ug/l	100
15) Acetone	4.442	58	20802	97.900	ug/l	100
16) Carbon Disulfide	4.706	76	67327	19.125	ug/l	100
17) Allyl chloride	5.018	41	38736m	24.245	ug/l	
18) Methylene Chloride	5.283	84	30122	18.851	ug/l	100
19) trans-1,2-Dichloroethene	5.794	96	29093	19.517	ug/l	100
20) Diisopropyl ether	6.683	45	133398	23.334	ug/l	100
21) 1,1-Dichloroethane	6.577	63	75479	22.538	ug/l	100
22) cis-1,2-Dichloroethene	7.494	96	47287	20.284	ug/l	100
23) tert-Butyl Alcohol	5.530	59	28917	92.288	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	92467	19.665	ug/l	100
25) Chloroform	7.971	83	77543	19.207	ug/l	100
26) Cyclohexane	8.259	56	58863	19.388	ug/l #	100
29) 1,1-Dichloropropene	8.377	75	55673	18.790	ug/l	100
30) 2-Butanone	7.488	43	151033	101.345	ug/l	100
31) 2,2-Dichloropropane	7.494	77	59530	20.143	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	65807	18.852	ug/l	100
33) Carbon Tetrachloride	8.371	117	55956	25.442	ug/l	100
34) Benzene	8.612	78	176696	18.770	ug/l	100
35) Methacrylonitrile	7.788	41	31464	19.608	ug/l	100
36) 1,2-Dichloroethane	8.677	62	56285	18.129	ug/l	100
37) Trichloroethene	9.353	130	39873	17.920	ug/l	100
38) Methylcyclohexane	9.606	83	55614	18.775	ug/l	100
39) 1,2-Dichloropropane	9.630	63	45566	18.765	ug/l	100
40) Dibromomethane	9.712	93	29755	18.581	ug/l	99
41) Bromodichloromethane	9.894	83	59924	18.772	ug/l	100
42) Vinyl Acetate	6.612	43	397132	112.208	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	59935	21.176	ug/l	100
44) Isopropyl Acetate	8.694	43	93921	18.447	ug/l	100
45) 1,4-Dioxane	9.700	88	18307	361.224	ug/l	100
46) Methyl methacrylate	9.688	41	43162	18.975	ug/l	100
47) n-amyl Acetate	12.500	43	64309	17.960	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	63551	18.402	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	65372	18.147	ug/l	100
50) 1,1,2-Trichloroethane	11.024	97	42514	18.918	ug/l	100
51) Ethyl methacrylate	10.882	69	66687	19.221	ug/l	100
52) 1,3-Dichloropropane	11.171	76	74777	19.497	ug/l	100
53) Dibromochloromethane	11.365	129	44010	18.678	ug/l	100
54) 1,2-Dibromoethane	11.476	107	43439	19.060	ug/l	100
55) 2-Chloroethyl vinyl ether	10.165	63	114856	93.168	ug/l	100
56) Bromoform	12.582	173	29304	17.865	ug/l	99
58) 4-Methyl-2-Pentanone	10.453	43	294553	96.965	ug/l	100
59) 2-Hexanone	11.200	43	215962	101.230	ug/l	100
61) Tetrachloroethene	11.106	164	35628	19.780	ug/l	100
62) Toluene	10.635	91	185441	19.240	ug/l	100
64) Chlorobenzene	11.894	112	106721	18.980	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.965	131	40779	18.943	ug/l	100
66) Ethyl Benzene	11.971	91	190303	19.609	ug/l	100
67) m/p-Xylenes	12.076	106	144564	39.589	ug/l	100
68) o-Xylene	12.406	106	63470	18.015	ug/l	100
69) Styrene	12.418	104	104644	18.630	ug/l	100
70) Isopropylbenzene	12.700	105	174558	19.501	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	63732	19.033	ug/l	100
72) 1,2,3-Trichloropropane	13.000	75	51511m	16.898	ug/l	
73) Bromobenzene	12.982	156	43610	19.503	ug/l	100
74) n-propylbenzene	13.041	91	203581	19.961	ug/l	100
75) 2-Chlorotoluene	13.129	91	128889	19.708	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	148890	20.116	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	19604	19.763	ug/l	100
78) 4-Chlorotoluene	13.229	91	121473	19.671	ug/l	100
79) tert-butylbenzene	13.441	119	125651	20.682	ug/l	100
80) 1,2,4-Trimethylbenzene	13.488	105	144193	20.400	ug/l	100
81) sec-Butylbenzene	13.623	105	168376	20.256	ug/l	100
82) p-Isopropyltoluene	13.735	119	134649	20.508	ug/l	100
83) 1,3-Dichlorobenzene	13.741	146	71723	20.198	ug/l	100
84) 1,4-Dichlorobenzene	13.817	146	68091	20.445	ug/l	100
85) n-Butylbenzene	14.065	91	102922	20.581	ug/l	100
86) Hexachloroethane	14.341	117	26568	20.437	ug/l	99
87) 1,2-Dichlorobenzene	14.112	146	71910	20.521	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.723	75	11530	20.371	ug/l	100
89) 1,2,4-Trichlorobenzene	15.847	180	28853	19.224	ug/l	100
90) Hexachlorobutadiene	15.506	225	16837	18.517	ug/l	100
91) Naphthalene	15.647	128	75985	19.390	ug/l	100
92) 1,2,3-Trichlorobenzene	15.847	180	28853	19.224	ug/l	100

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

