

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090723\
 Data File : VN079177.D
 Acq On : 07 Sep 2023 16:08
 Operator : JC\MD
 Sample : VN0907WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907WBS01

Manual Integrations
 APPROVED

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

Quant Time: Sep 08 05:41:56 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	40787	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	227188	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	203347	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	88945	29.025	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	96.767%	
60) 4-Bromofluorobenzene	12.853	95	94958	31.693	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	105.633%	
63) Toluene-d8	10.571	98	284429	29.930	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.767%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	46555	20.466	ug/l	100
3) Chloromethane	2.365	50	35023	15.354	ug/l	96
4) Vinyl Chloride	2.512	62	39693	17.589	ug/l	92
5) Bromomethane	2.942	94	24635	17.786	ug/l	94
6) Chloroethane	3.112	64	26135	18.910	ug/l	93
7) Trichlorofluoromethane	3.495	101	54840	20.412	ug/l	100
8) Diethyl Ether	3.965	74	20020	20.323	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	30871	20.850	ug/l	98
10) 1,1-Dichloroethene	4.342	96	29363	20.468	ug/l	98
11) Methyl Iodide	4.589	142	39079	21.625	ug/l	98
12) Methyl Acetate	5.036	43	67137	20.081	ug/l	100
13) Acrolein	4.183	56	26130	85.815	ug/l	98
14) Acrylonitrile	5.724	53	90043	91.801	ug/l	98
15) Acetone	4.442	58	27622	107.954	ug/l	98
16) Carbon Disulfide	4.706	76	81913	19.323	ug/l	99
17) Allyl chloride	5.024	41	45542	19.756	ug/l	97
18) Methylene Chloride	5.277	84	36872	19.163	ug/l	95
19) trans-1,2-Dichloroethene	5.794	96	34336	19.130	ug/l	99
20) Diisopropyl ether	6.683	45	113196	16.448	ug/l	93
21) 1,1-Dichloroethane	6.577	63	65957	16.360	ug/l	99
22) cis-1,2-Dichloroethene	7.494	96	60092	21.408	ug/l	98
23) tert-Butyl Alcohol	5.542	59	35203	93.296	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	109271	19.299	ug/l	98
25) Chloroform	7.971	83	99516	20.470	ug/l	98
26) Cyclohexane	8.259	56	72698	19.885	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	71572	19.649	ug/l	100
30) 2-Butanone	7.494	43	193707	105.728	ug/l	99
31) 2,2-Dichloropropane	7.494	77	79154	21.786	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	83317	19.415	ug/l	99
33) Carbon Tetrachloride	8.365	117	72546	19.680	ug/l	98
34) Benzene	8.612	78	224083	19.363	ug/l	98
35) Methacrylonitrile	7.788	41	40495	20.528	ug/l	95
36) 1,2-Dichloroethane	8.677	62	72965	19.117	ug/l	100
37) Trichloroethene	9.359	130	53724	19.640	ug/l	97
38) Methylcyclohexane	9.606	83	70356	19.321	ug/l	99
39) 1,2-Dichloropropane	9.629	63	58804	19.698	ug/l	99
40) Dibromomethane	9.718	93	37649	19.124	ug/l	96
41) Bromodichloromethane	9.894	83	77350	19.710	ug/l #	94
42) Vinyl Acetate	6.612	43	344283	79.126	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	78883	22.671	ug/l	100
44) Isopropyl Acetate	8.694	43	119093	19.027	ug/l	98
45) 1,4-Dioxane	9.700	88	24591	394.687	ug/l	92
46) Methyl methacrylate	9.688	41	56999	20.382	ug/l	98
47) n-amyl Acetate	12.500	43	92562	21.027	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	82301	19.384	ug/l #	88
49) cis-1,3-Dichloropropene	10.318	75	91297	20.615	ug/l	96
50) 1,1,2-Trichloroethane	11.024	97	48736	17.646	ug/l	98
51) Ethyl methacrylate	10.882	69	83659	19.614	ug/l	96
52) 1,3-Dichloropropane	11.171	76	95619	20.280	ug/l	99
53) Dibromochloromethane	11.365	129	57662	19.906	ug/l	100
54) 1,2-Dibromoethane	11.476	107	54881	19.569	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	167378	110.440	ug/l	99
56) Bromoform	12.582	173	40645	20.137	ug/l	98
58) 4-Methyl-2-Pentanone	10.453	43	379282	101.642	ug/l	99
59) 2-Hexanone	11.200	43	280417	107.004	ug/l	98
61) Tetrachloroethene	11.106	164	45819	20.708	ug/l	95
62) Toluene	10.635	91	236767	19.997	ug/l	99
64) Chlorobenzene	11.900	112	137436	19.898	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	52802	19.968	ug/l	99
66) Ethyl Benzene	11.970	91	250092	20.979	ug/l	97
67) m/p-Xylenes	12.076	106	189212	42.182	ug/l	99
68) o-Xylene	12.406	106	90532	20.928	ug/l	97
69) Styrene	12.418	104	153194	22.203	ug/l	99
70) Isopropylbenzene	12.700	105	228420	20.773	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	79440	19.313	ug/l	97
72) 1,2,3-Trichloropropane	13.000	75	67683m	19.556	ug/l	
73) Bromobenzene	12.988	156	55076	20.052	ug/l	98
74) n-propylbenzene	13.041	91	264172	21.086	ug/l	99
75) 2-Chlorotoluene	13.129	91	166208	20.689	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	190056	20.904	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	26220	21.518	ug/l	97
78) 4-Chlorotoluene	13.229	91	161142	21.243	ug/l	97
79) tert-butylbenzene	13.447	119	153494	20.568	ug/l	100
80) 1,2,4-Trimethylbenzene	13.488	105	184937	21.299	ug/l	100
81) sec-Butylbenzene	13.623	105	213462	20.906	ug/l	98
82) p-Isopropyltoluene	13.735	119	171607	21.277	ug/l	99
83) 1,3-Dichlorobenzene	13.741	146	92733	21.259	ug/l	100
84) 1,4-Dichlorobenzene	13.817	146	88131	21.542	ug/l	100
85) n-Butylbenzene	14.064	91	135831	22.112	ug/l	100
86) Hexachloroethane	14.341	117	28217	17.670	ug/l	100
87) 1,2-Dichlorobenzene	14.112	146	91382	21.228	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	13305	19.136	ug/l	96
89) 1,2,4-Trichlorobenzene	15.847	180	36625	19.882	ug/l	99
90) Hexachlorobutadiene	15.506	225	22924	20.488	ug/l	97
91) Naphthalene	15.647	128	93679	19.461	ug/l	100
92) 1,2,3-Trichlorobenzene	15.847	180	36625	19.882	ug/l	99

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

