

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090723\
 Data File : VN079172.D
 Acq On : 07 Sep 2023 10:20
 Operator : JC\MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Quant Time: Sep 08 04:49:47 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

Manual Integrations
 APPROVED

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

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

Internal Standards						
1) Bromochloromethane	7.818	128	35841	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	170022	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	176057	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	77089	28.586	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.300%		
60) 4-Bromofluorobenzene	12.853	95	81317	31.347	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	104.500%		
63) Toluene-d8	10.570	98	242658	29.493	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.300%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	92859	46.388	ug/l	96
3) Chloromethane	2.365	50	94773	47.215	ug/l	93
4) Vinyl Chloride	2.512	62	96864	48.776	ug/l	98
5) Bromomethane	2.942	94	55552	45.516	ug/l	99
6) Chloroethane	3.112	64	54825	45.078	ug/l #	85
7) Trichlorofluoromethane	3.489	101	116507	49.279	ug/l	97
8) Diethyl Ether	3.959	74	43807	50.531	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	64822	53.884	ug/l	98
10) 1,1-Dichloroethene	4.341	96	64011	50.700	ug/l	97
11) Methyl Iodide	4.588	142	88038	55.360	ug/l	96
12) Methyl Acetate	5.030	43	147791	57.180	ug/l	99
13) Acrolein	4.183	56	63593	237.299	ug/l	99
14) Acrylonitrile	5.724	53	218181	281.613	ug/l	98
15) Acetone	4.430	58	62618	278.097	ug/l	87
16) Carbon Disulfide	4.712	76	183763	49.260	ug/l	98
17) Allyl chloride	5.024	41	111726	65.990	ug/l	96
18) Methylene Chloride	5.277	84	82933	48.978	ug/l	99
19) trans-1,2-Dichloroethene	5.788	96	79836	50.542	ug/l	96
20) Diisopropyl ether	6.677	45	349972	57.769	ug/l	96
21) 1,1-Dichloroethane	6.571	63	197753	55.724	ug/l	99
22) cis-1,2-Dichloroethene	7.488	96	124125	50.244	ug/l	99
23) tert-Butyl Alcohol	5.535	59	79401	239.133	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	259437	52.067	ug/l	99
25) Chloroform	7.971	83	199345	46.595	ug/l	95
26) Cyclohexane	8.265	56	156013	48.491	ug/l #	99
29) 1,1-Dichloropropene	8.376	75	148550	54.495	ug/l	100
30) 2-Butanone	7.488	43	405236	295.552	ug/l	99
31) 2,2-Dichloropropane	7.494	77	161296	59.320	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	170649	53.136	ug/l	99
33) Carbon Tetrachloride	8.365	117	149357	73.811	ug/l	96
34) Benzene	8.612	78	460078	53.121	ug/l	100
35) Methacrylonitrile	7.782	41	82874	56.136	ug/l	95
36) 1,2-Dichloroethane	8.676	62	148254	51.903	ug/l	100
37) Trichloroethene	9.359	130	109972	53.720	ug/l	98
38) Methylcyclohexane	9.606	83	152152	55.831	ug/l	98
39) 1,2-Dichloropropane	9.623	63	119563	53.518	ug/l	93
40) Dibromomethane	9.712	93	76428	51.876	ug/l	97
41) Bromodichloromethane	9.894	83	158006	53.800	ug/l	97
42) Vinyl Acetate	6.612	43	1077640	330.947	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	147831	56.771	ug/l	97
44) Isopropyl Acetate	8.694	43	248514	53.052	ug/l	99
45) 1,4-Dioxane	9.700	88	50358	1080.004	ug/l	94
46) Methyl methacrylate	9.688	41	116546	55.689	ug/l	96
47) n-amyl Acetate	12.500	43	200891	60.980	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	175028	55.085	ug/l	94
49) cis-1,3-Dichloropropene	10.318	75	188538	56.887	ug/l	100
50) 1,1,2-Trichloroethane	11.023	97	102189	49.426	ug/l	99
51) Ethyl methacrylate	10.876	69	182140	57.061	ug/l	97
52) 1,3-Dichloropropane	11.170	76	175990	49.875	ug/l	99
53) Dibromochloromethane	11.365	129	118835	54.819	ug/l	100
54) 1,2-Dibromoethane	11.470	107	113357	54.062	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	327310	288.581	ug/l	99
56) Bromoform	12.582	173	85574	56.704	ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	765419	236.917	ug/l	100
59) 2-Hexanone	11.200	43	521406	229.803	ug/l	100
61) Tetrachloroethene	11.112	164	86711	45.263	ug/l	93
62) Toluene	10.635	91	487619	47.568	ug/l	99
64) Chlorobenzene	11.894	112	288232	48.198	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.964	131	108856	47.546	ug/l	99
66) Ethyl Benzene	11.970	91	526428	51.004	ug/l	99
67) m/p-Xylenes	12.076	106	397065	102.241	ug/l	100
68) o-Xylene	12.406	106	193179	51.556	ug/l	99
69) Styrene	12.417	104	325754	54.530	ug/l	99
70) Isopropylbenzene	12.700	105	486648	51.118	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	167763	47.107	ug/l	97
72) 1,2,3-Trichloropropane	13.000	75	134758m	41.567	ug/l	
73) Bromobenzene	12.982	156	119447	50.228	ug/l	98
74) n-propylbenzene	13.041	91	569342	52.488	ug/l	100
75) 2-Chlorotoluene	13.129	91	351881	50.592	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	406096	51.589	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	55251	52.371	ug/l	96
78) 4-Chlorotoluene	13.229	91	345764	52.647	ug/l	98
79) tert-butylbenzene	13.441	119	341030	52.781	ug/l	100
80) 1,2,4-Trimethylbenzene	13.488	105	402934	53.600	ug/l	99
81) sec-Butylbenzene	13.623	105	460283	52.066	ug/l	99
82) p-Isopropyltoluene	13.735	119	362883	51.967	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	195749	51.831	ug/l	100
84) 1,4-Dichlorobenzene	13.817	146	182085	51.407	ug/l	100
85) n-Butylbenzene	14.058	91	294488	55.371	ug/l	99
86) Hexachloroethane	14.341	117	70361	50.891	ug/l	99
87) 1,2-Dichlorobenzene	14.111	146	187246	50.243	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	30038	49.900	ug/l	95
89) 1,2,4-Trichlorobenzene	15.847	180	94418	59.149	ug/l	99
90) Hexachlorobutadiene	15.505	225	47999	49.634	ug/l	97
91) Naphthalene	15.647	128	272640	65.417	ug/l	100
92) 1,2,3-Trichlorobenzene	15.847	180	94418	59.149	ug/l	99

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

