

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041423\
 Data File : VN077342.D
 Acq On : 14 Apr 2023 10:03
 Operator : JC\MD
 Sample : VN0414WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/17/2023
 Supervised By : Mahesh Dadoda 04/17/2023

Quant Time: Apr 17 05:05:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	49987	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	369284	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.872	117	402446	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	127009	29.959	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.867%		
60) 4-Bromofluorobenzene	12.854	95	206014	29.604	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.667%		
63) Toluene-d8	10.572	98	428752	30.305	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.033%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	89820	18.901	ug/l	98
3) Chloromethane	2.372	50	107222	16.983	ug/l	99
4) Vinyl Chloride	2.525	62	151620	16.767	ug/l	97
5) Bromomethane	2.966	94	110960	16.284	ug/l	99
6) Chloroethane	3.125	64	106395	17.553	ug/l	89
7) Trichlorofluoromethane	3.507	101	148186	17.599	ug/l	96
8) Diethyl Ether	3.972	74	68786	19.166	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.390	101	100724	19.130	ug/l	98
10) 1,1-Dichloroethene	4.354	96	93210	17.696	ug/l	95
11) Methyl Iodide	4.607	142	117651	19.771	ug/l	89
12) Methyl Acetate	5.037	43	143744	18.317	ug/l	97
13) Acrolein	4.190	56	90996	93.417	ug/l	96
14) Acrylonitrile	5.731	53	241234	89.931	ug/l	98
15) Acetone	4.437	58	76392	78.500	ug/l	86
16) Carbon Disulfide	4.725	76	231435	16.647	ug/l	97
17) Allyl chloride	5.031	41	104881	15.468	ug/l	97
18) Methylene Chloride	5.290	84	110816	18.117	ug/l	97
19) trans-1,2-Dichloroethene	5.801	96	101316	17.690	ug/l	92
20) Diisopropyl ether	6.684	45	276338	17.100	ug/l	98
21) 1,1-Dichloroethane	6.584	63	185261	18.086	ug/l #	97
22) cis-1,2-Dichloroethene	7.490	96	126813	18.163	ug/l	98
23) tert-Butyl Alcohol	5.537	59	109277m	91.618	ug/l	
24) Methyl tert-Butyl Ether	5.801	73	350051	18.460	ug/l #	79
25) Chloroform	7.972	83	203009	18.288	ug/l	98
26) Cyclohexane	8.266	56	148888	16.728	ug/l #	97
29) 1,1-Dichloropropene	8.378	75	143338	17.918	ug/l	97
30) 2-Butanone	7.490	43	316068	83.550	ug/l	98
31) 2,2-Dichloropropane	7.495	77	170726	17.385	ug/l	99
32) 1,1,1-Trichloroethane	8.172	97	182416	18.529	ug/l	99
33) Carbon Tetrachloride	8.366	117	158252	18.834	ug/l	97
34) Benzene	8.613	78	456516	18.443	ug/l	97
35) Methacrylonitrile	7.784	41	62112	17.429	ug/l	95
36) 1,2-Dichloroethane	8.678	62	153399	19.767	ug/l	98
37) Trichloroethene	9.354	130	114126	18.850	ug/l	97
38) Methylcyclohexane	9.607	83	192649	17.756	ug/l	99
39) 1,2-Dichloropropane	9.619	63	114676	18.663	ug/l	96
40) Dibromomethane	9.713	93	86618	19.564	ug/l	98
41) Bromodichloromethane	9.889	83	169168	19.162	ug/l	96
42) Vinyl Acetate	6.613	43	1084050m	99.013	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	130469m	18.641	ug/l	
44) Isopropyl Acetate	8.695	43	229996	18.354	ug/l #	100
45) 1,4-Dioxane	9.695	88	49236	372.545	ug/l	97
46) Methyl methacrylate	9.684	41	97845	18.135	ug/l	96
47) n-amyl Acetate	12.495	43	192786	17.604	ug/l	99
48) t-1,3-Dichloropropene	10.836	75	181425	18.363	ug/l	96
49) cis-1,3-Dichloropropene	10.319	75	194633	18.518	ug/l	96
50) 1,1,2-Trichloroethane	11.019	97	123443	19.196	ug/l	96
51) Ethyl methacrylate	10.878	69	187351	18.971	ug/l	94
52) 1,3-Dichloropropane	11.166	76	207017	19.288	ug/l	98
53) Dibromochloromethane	11.366	129	130812	19.300	ug/l	99
54) 1,2-Dibromoethane	11.472	107	121846	18.874	ug/l	98
55) 2-Chloroethyl vinyl ether	10.166	63	299134	98.109	ug/l	96
56) Bromoform	12.583	173	84860	18.639	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	689807	91.545	ug/l	99
59) 2-Hexanone	11.201	43	499682	85.791	ug/l	98
61) Tetrachloroethene	11.107	164	88446	18.477	ug/l	92
62) Toluene	10.636	91	526404	18.747	ug/l	99
64) Chlorobenzene	11.895	112	323767	18.979	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.966	131	121858	19.425	ug/l	98
66) Ethyl Benzene	11.966	91	576261	18.524	ug/l	98
67) m/p-Xylenes	12.077	106	451487	37.027	ug/l	100
68) o-Xylene	12.401	106	225485	18.484	ug/l	99
69) Styrene	12.413	104	356844	18.258	ug/l	98
70) Isopropylbenzene	12.701	105	585564	18.914	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.942	83	184612	19.473	ug/l	98
72) 1,2,3-Trichloropropane	12.995	75	133652m	20.739	ug/l	
73) Bromobenzene	12.983	156	124030	19.719	ug/l	91
74) n-propylbenzene	13.042	91	639898	18.681	ug/l	100
75) 2-Chlorotoluene	13.130	91	378896	18.465	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	465342	18.468	ug/l	98
77) t-1,4-Dichloro-2-butene	12.742	75	56271	17.143	ug/l	93
78) 4-Chlorotoluene	13.224	91	360241	18.580	ug/l	99
79) tert-butylbenzene	13.442	119	406296	18.528	ug/l	99
80) 1,2,4-Trimethylbenzene	13.483	105	445689	18.145	ug/l	98
81) sec-Butylbenzene	13.619	105	586190	18.717	ug/l	100
82) p-Isopropyltoluene	13.736	119	463162	18.459	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	222021	18.617	ug/l	100
84) 1,4-Dichlorobenzene	13.819	146	213012	18.410	ug/l	99
85) n-Butylbenzene	14.060	91	366148	17.659	ug/l	99
86) Hexachloroethane	14.336	117	98208	18.400	ug/l	97
87) 1,2-Dichlorobenzene	14.107	146	219486	18.783	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.730	75	32010	17.620	ug/l	97
89) 1,2,4-Trichlorobenzene	15.371	180	68222	14.842	ug/l	97
90) Hexachlorobutadiene	15.466	225	43630	18.508	ug/l	97
91) Naphthalene	15.589	128	262594	14.955	ug/l	99
92) 1,2,3-Trichlorobenzene	15.760	180	65929	14.700	ug/l	98

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

