

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101222\
 Data File : VN074882.D
 Acq On : 12 Oct 2022 17:57
 Operator : JC\MD
 Sample : VN1012WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1012WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/13/2022
 Supervised By : Mahesh Dadoda 10/14/2022

Quant Time: Oct 13 07:59:49 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 13 07:52:24 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.830	128	84745	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	493276	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	451819	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	252542	31.831	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.100%			
60) 4-Bromofluorobenzene	12.853	95	226200	28.231	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.100%			
63) Toluene-d8	10.571	98	813550	31.198	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 104.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	98715	20.976	ug/l	91
3) Chloromethane	2.383	50	161465	21.215	ug/l	96
4) Vinyl Chloride	2.530	62	232651	20.759	ug/l	99
5) Bromomethane	2.954	94	181575m	20.434	ug/l	
6) Chloroethane	3.130	64	177240	21.087	ug/l	93
7) Trichlorofluoromethane	3.506	101	178632	21.380	ug/l	89
8) Diethyl Ether	3.989	74	80425	20.643	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.395	101	105596	20.084	ug/l	76
10) 1,1-Dichloroethene	4.359	96	112652	21.782	ug/l	92
11) Methyl Iodide	4.612	142	133201	20.632	ug/l	94
12) Methyl Acetate	5.048	43	247094	19.822	ug/l	94
13) Acrolein	4.201	56	186017m	105.613	ug/l	
14) Acrylonitrile	5.747	53	491180	105.647	ug/l	99
15) Acetone	4.448	58	144164	113.137	ug/l	82
16) Carbon Disulfide	4.730	76	265106	19.952	ug/l	96
17) Allyl chloride	5.048	41	208147	20.214	ug/l	89
18) Methylene Chloride	5.300	84	141067	21.035	ug/l #	92
19) trans-1,2-Dichloroethene	5.806	96	117855	20.759	ug/l	92
20) Diisopropyl ether	6.694	45	505445	21.028	ug/l #	94
21) 1,1-Dichloroethane	6.589	63	264079	21.594	ug/l	98
22) cis-1,2-Dichloroethene	7.506	96	152378	21.433	ug/l	97
23) tert-Butyl Alcohol	5.559	59	206558	105.439	ug/l #	100
24) Methyl tert-Butyl Ether	5.818	73	464408	21.501	ug/l	100
25) Chloroform	7.977	83	253865	20.905	ug/l	87
26) Cyclohexane	8.265	56	220829	20.557	ug/l #	96
29) 1,1-Dichloropropene	8.377	75	179821	20.204	ug/l	96
30) 2-Butanone	7.500	43	730410	102.855	ug/l	98
31) 2,2-Dichloropropane	7.500	77	220386	20.229	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	210169	19.691	ug/l	99
33) Carbon Tetrachloride	8.365	117	175630	20.037	ug/l	92
34) Benzene	8.618	78	587813	19.980	ug/l #	92
35) Methacrylonitrile	7.789	41	138199	18.936	ug/l	91
36) 1,2-Dichloroethane	8.683	62	198674	20.279	ug/l #	88
37) Trichloroethene	9.359	130	122588	20.036	ug/l	97
38) Methylcyclohexane	9.606	83	226257	20.926	ug/l	99
39) 1,2-Dichloropropane	9.624	63	160330	21.022	ug/l	96
40) Dibromomethane	9.712	93	100833	19.951	ug/l	97
41) Bromodichloromethane	9.894	83	204199	20.747	ug/l #	98
42) Vinyl Acetate	6.624	43	2222060m	105.044	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	277019	20.064	ug/l	96
44) Isopropyl Acetate	8.694	43	434693	20.359	ug/l	98
45) 1,4-Dioxane	9.700	88	80363	410.470	ug/l #	90
46) Methyl methacrylate	9.688	41	191437	20.703	ug/l	90
47) n-amyl Acetate	12.494	43	362224	19.390	ug/l	96
48) t-1,3-Dichloropropene	10.841	75	219175	19.409	ug/l	97
49) cis-1,3-Dichloropropene	10.318	75	244249	20.397	ug/l	98
50) 1,1,2-Trichloroethane	11.024	97	142852	19.208	ug/l	96
51) Ethyl methacrylate	10.877	69	248312	19.635	ug/l	93
52) 1,3-Dichloropropane	11.165	76	254909	19.858	ug/l	96
53) Dibromochloromethane	11.359	129	144773	19.869	ug/l	95
54) 1,2-Dibromoethane	11.471	107	146549	20.509	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	451851	91.342	ug/l	98
56) Bromoform	12.582	173	95995	18.282	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	1450882	103.254	ug/l	98
59) 2-Hexanone	11.200	43	1107845	102.444	ug/l	98
61) Tetrachloroethene	11.106	164	100087	20.779	ug/l	88
62) Toluene	10.635	91	638573	20.457	ug/l	99
64) Chlorobenzene	11.894	112	359843	20.281	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	134353	20.104	ug/l	99
66) Ethyl Benzene	11.965	91	702193	20.687	ug/l	98
67) m/p-Xylenes	12.076	106	524227	41.110	ug/l	96
68) o-Xylene	12.400	106	261654	20.186	ug/l	99
69) Styrene	12.412	104	419954	19.795	ug/l	99
70) Isopropylbenzene	12.700	105	677488	20.266	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.941	83	255609	20.440	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	217973m	20.748	ug/l	
73) Bromobenzene	12.982	156	140796	20.098	ug/l	94
74) n-propylbenzene	13.035	91	783702	20.107	ug/l	97
75) 2-Chlorotoluene	13.129	91	457120	20.048	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	554860	20.425	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	85601	19.611	ug/l	96
78) 4-Chlorotoluene	13.223	91	422259	19.406	ug/l	99
79) tert-butylbenzene	13.441	119	486420	20.129	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	551962	20.193	ug/l	97
81) sec-Butylbenzene	13.618	105	682715	19.658	ug/l	100
82) p-Isopropyltoluene	13.735	119	547507	19.841	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	268530	19.645	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	259933	19.797	ug/l	100
85) n-Butylbenzene	14.059	91	469650	19.281	ug/l	99
86) Hexachloroethane	14.335	117	106922	19.784	ug/l	92
87) 1,2-Dichlorobenzene	14.106	146	273403	20.144	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.717	75	47475	18.810	ug/l	96
89) 1,2,4-Trichlorobenzene	15.394	180	117121	18.895	ug/l	99
90) Hexachlorobutadiene	15.506	225	59657	19.739	ug/l	99
91) Naphthalene	15.641	128	487742	19.831	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	119337	18.404	ug/l	97

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

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