

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112423\
 Data File : VN080255.D
 Acq On : 24 Nov 2023 11:57
 Operator : JC\MD
 Sample : VN1124WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1124WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/27/2023
 Supervised By : Mahesh Dadoda 11/27/2023

Quant Time: Nov 27 04:04:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 09 04:02:05 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	37995	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.100	114	215268	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	192109	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	106970	33.539	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 111.800%#			
60) 4-Bromofluorobenzene	12.853	95	100987	32.872	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 109.567%			
63) Toluene-d8	10.571	98	277137	30.446	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.500%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	55749	22.503	ug/l	99
3) Chloromethane	2.360	50	36538	11.708	ug/l	99
4) Vinyl Chloride	2.512	62	42285	16.214	ug/l	96
5) Bromomethane	2.959	94	27557	19.299	ug/l	91
6) Chloroethane	3.130	64	26834	17.715	ug/l	94
7) Trichlorofluoromethane	3.501	101	91061	23.265	ug/l	89
8) Diethyl Ether	3.965	74	24645	17.540	ug/l	83
9) 1,1,2-Trichlorotrifluo...	4.371	101	41258	18.658	ug/l	92
10) 1,1-Dichloroethene	4.342	96	36980	18.904	ug/l	95
11) Methyl Iodide	4.595	142	49975	19.314	ug/l	87
12) Methyl Acetate	5.018	43	64775	12.772	ug/l #	80
13) Acrolein	4.183	56	33278	77.662	ug/l	99
14) Acrylonitrile	5.718	53	83521	69.334	ug/l	99
15) Acetone	4.430	58	26653	65.527	ug/l	96
16) Carbon Disulfide	4.712	76	107894	16.152	ug/l #	94
17) Allyl chloride	5.024	41	45154	13.210	ug/l	87
18) Methylene Chloride	5.277	84	45315	17.274	ug/l #	82
19) trans-1,2-Dichloroethene	5.783	96	41338	17.048	ug/l	95
20) Diisopropyl ether	6.671	45	106998	13.395	ug/l #	91
21) 1,1-Dichloroethane	6.565	63	77682	16.292	ug/l #	93
22) cis-1,2-Dichloroethene	7.483	96	49678	17.655	ug/l	91
23) tert-Butyl Alcohol	5.512	59	28042	86.243	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	134948	18.735	ug/l	99
25) Chloroform	7.965	83	93633	19.024	ug/l	91
26) Cyclohexane	8.259	56	55797	14.875	ug/l #	89
29) 1,1-Dichloropropene	8.371	75	64383	17.426	ug/l	98
30) 2-Butanone	7.483	43	104187	59.049	ug/l #	88
31) 2,2-Dichloropropane	7.495	77	79511	19.912	ug/l	97
32) 1,1,1-Trichloroethane	8.171	97	89111	21.128	ug/l	97
33) Carbon Tetrachloride	8.359	117	82542	22.265	ug/l	99
34) Benzene	8.606	78	179253	16.333	ug/l	94
35) Methacrylonitrile	7.783	41	22935	12.398	ug/l	94
36) 1,2-Dichloroethane	8.671	62	78033	19.646	ug/l	98
37) Trichloroethene	9.353	130	48635	18.427	ug/l	92
38) Methylcyclohexane	9.600	83	56642	16.328	ug/l	97
39) 1,2-Dichloropropane	9.624	63	41379	14.244	ug/l	99
40) Dibromomethane	9.712	93	32515	17.316	ug/l	93
41) Bromodichloromethane	9.888	83	73326	18.855	ug/l	95
42) Vinyl Acetate	6.606	43	338023m	77.128	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	41579m	12.544	ug/l	
44) Isopropyl Acetate	8.689	43	70987	13.144	ug/l #	87
45) 1,4-Dioxane	9.700	88	13892	333.773	ug/l	91
46) Methyl methacrylate	9.683	41	28582	11.009	ug/l	82
47) n-amyl Acetate	12.494	43	54440	12.549	ug/l #	88
48) t-1,3-Dichloropropene	10.835	75	72475	18.248	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	74953	17.071	ug/l #	88
50) 1,1,2-Trichloroethane	11.018	97	44164	17.242	ug/l	93
51) Ethyl methacrylate	10.877	69	58540	15.901	ug/l	80
52) 1,3-Dichloropropane	11.165	76	73985	16.156	ug/l	100
53) Dibromochloromethane	11.359	129	53261	19.437	ug/l	99
54) 1,2-Dibromoethane	11.471	107	43176	16.787	ug/l	96
55) 2-Chloroethyl vinyl ether	10.165	63	91920	54.286	ug/l #	94
56) Bromoform	12.582	173	36831	20.512	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	204262	63.643	ug/l #	87
59) 2-Hexanone	11.200	43	152859	62.522	ug/l #	89
61) Tetrachloroethene	11.106	164	48712	21.628	ug/l	95
62) Toluene	10.630	91	195807	17.623	ug/l	97
64) Chlorobenzene	11.894	112	115960	17.488	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.959	131	50534	20.776	ug/l	93
66) Ethyl Benzene	11.965	91	207754	17.794	ug/l	95
67) m/p-Xylenes	12.071	106	161982	37.264	ug/l	92
68) o-Xylene	12.400	106	76538	18.370	ug/l	91
69) Styrene	12.412	104	129826	18.823	ug/l	96
70) Isopropylbenzene	12.700	105	196976	18.953	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	53507	15.116	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	59442m	18.073	ug/l	
73) Bromobenzene	12.982	156	49148	19.236	ug/l	95
74) n-propylbenzene	13.035	91	224672	18.071	ug/l	99
75) 2-Chlorotoluene	13.129	91	148770	18.825	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	174349	20.282	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	18087	16.795	ug/l	94
78) 4-Chlorotoluene	13.224	91	147344	18.773	ug/l	99
79) tert-butylbenzene	13.441	119	137449	20.417	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	171398	20.334	ug/l	97
81) sec-Butylbenzene	13.618	105	185098	19.478	ug/l	98
82) p-Isopropyltoluene	13.735	119	155663	20.170	ug/l	96
83) 1,3-Dichlorobenzene	13.735	146	88297	18.965	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	88205	19.302	ug/l	95
85) n-Butylbenzene	14.059	91	126785	19.642	ug/l	97
86) Hexachloroethane	14.335	117	29329	19.544	ug/l	81
87) 1,2-Dichlorobenzene	14.112	146	86415	19.428	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	12082	18.664	ug/l	96
89) 1,2,4-Trichlorobenzene	15.841	180	40442	19.626	ug/l	95
90) Hexachlorobutadiene	15.500	225	27288	26.871	ug/l	99
91) Naphthalene	15.641	128	111073	16.797	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	40442	19.626	ug/l	95

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

