

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101222\
 Data File : VN074881.D
 Acq On : 12 Oct 2022 17:33
 Operator : JC\MD
 Sample : VN1012WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1012WBSD01

Manual Integrations
 APPROVED

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

Quant Time: Oct 13 07:58:40 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	7.824	128	69804	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	411437	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	374188	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	204783	31.336	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.467%			
60) 4-Bromofluorobenzene	12.847	95	178699	26.930	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 89.767%			
63) Toluene-d8	10.571	98	666891	30.880	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.933%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.148	85	85280	22.000	ug/l	90
3) Chloromethane	2.383	50	137997	22.013	ug/l	97
4) Vinyl Chloride	2.530	62	205948	22.309	ug/l	100
5) Bromomethane	2.953	94	158276	21.624	ug/l	98
6) Chloroethane	3.124	64	165108m	23.848	ug/l	
7) Trichlorofluoromethane	3.512	101	159274	23.144	ug/l	84
8) Diethyl Ether	3.989	74	73004	22.749	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.389	101	93492	21.588	ug/l	77
10) 1,1-Dichloroethene	4.365	96	88786m	20.842	ug/l	
11) Methyl Iodide	4.606	142	115561	21.731	ug/l	99
12) Methyl Acetate	5.059	43	208162	20.273	ug/l	97
13) Acrolein	4.200	56	155933	107.482	ug/l	97
14) Acrylonitrile	5.742	53	418492	109.279	ug/l	97
15) Acetone	4.459	58	111417	106.154	ug/l	98
16) Carbon Disulfide	4.736	76	234384	21.416	ug/l #	91
17) Allyl chloride	5.042	41	163830	19.316	ug/l	87
18) Methylene Chloride	5.300	84	122892	22.247	ug/l	96
19) trans-1,2-Dichloroethene	5.800	96	97557	20.862	ug/l	92
20) Diisopropyl ether	6.688	45	415512	20.986	ug/l	98
21) 1,1-Dichloroethane	6.588	63	222126	22.051	ug/l	99
22) cis-1,2-Dichloroethene	7.506	96	130260	22.244	ug/l	97
23) tert-Butyl Alcohol	5.542	59	171786m	106.459	ug/l	
24) Methyl tert-Butyl Ether	5.818	73	390326	21.939	ug/l	97
25) Chloroform	7.983	83	215453	21.539	ug/l	97
26) Cyclohexane	8.271	56	187317	21.170	ug/l #	99
29) 1,1-Dichloropropene	8.383	75	144990	19.531	ug/l	99
30) 2-Butanone	7.500	43	600869	101.443	ug/l	100
31) 2,2-Dichloropropane	7.506	77	170450	18.757	ug/l	97
32) 1,1,1-Trichloroethane	8.183	97	172149	19.337	ug/l	92
33) Carbon Tetrachloride	8.377	117	144617	19.780	ug/l	92
34) Benzene	8.612	78	503855	20.533	ug/l #	91
35) Methacrylonitrile	7.794	41	115692	19.005	ug/l	89
36) 1,2-Dichloroethane	8.682	62	174306	21.330	ug/l	95
37) Trichloroethene	9.353	130	103668	20.314	ug/l	96
38) Methylcyclohexane	9.606	83	178511	19.794	ug/l	97
39) 1,2-Dichloropropane	9.629	63	129510	20.359	ug/l	89
40) Dibromomethane	9.712	93	87541	20.767	ug/l	97
41) Bromodichloromethane	9.894	83	169759	20.678	ug/l #	95
42) Vinyl Acetate	6.624	43	1880603m	106.585	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	244920m	21.267	ug/l	
44) Isopropyl Acetate	8.694	43	365710	20.536	ug/l	97
45) 1,4-Dioxane	9.700	88	67277	411.982	ug/l #	88
46) Methyl methacrylate	9.688	41	162196	21.029	ug/l	90
47) n-amyl Acetate	12.494	43	308821	19.819	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	190556	20.231	ug/l	95
49) cis-1,3-Dichloropropene	10.318	75	197828	19.807	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	121048	19.514	ug/l	97
51) Ethyl methacrylate	10.876	69	214216	20.308	ug/l	99
52) 1,3-Dichloropropane	11.171	76	225334	21.045	ug/l	98
53) Dibromochloromethane	11.359	129	120258	19.787	ug/l	94
54) 1,2-Dibromoethane	11.471	107	120125	20.155	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	382642	92.737	ug/l	99
56) Bromoform	12.582	173	81649	18.643	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	1241916	106.718	ug/l	98
59) 2-Hexanone	11.200	43	938608	104.801	ug/l	96
61) Tetrachloroethene	11.106	164	82074	20.574	ug/l	83
62) Toluene	10.635	91	520983	20.153	ug/l	99
64) Chlorobenzene	11.894	112	305179	20.769	ug/l	89
65) 1,1,1,2-Tetrachloroethane	11.959	131	111586	20.161	ug/l	96
66) Ethyl Benzene	11.965	91	573499	20.401	ug/l	95
67) m/p-Xylenes	12.076	106	435102	41.200	ug/l	96
68) o-Xylene	12.400	106	220653	20.555	ug/l	95
69) Styrene	12.418	104	354438	20.173	ug/l	98
70) Isopropylbenzene	12.700	105	552379	19.952	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	219288	21.174	ug/l	97
72) 1,2,3-Trichloropropane	13.000	75	186117m	21.391	ug/l	
73) Bromobenzene	12.982	156	117977	20.335	ug/l	94
74) n-propylbenzene	13.041	91	623329	19.310	ug/l	98
75) 2-Chlorotoluene	13.129	91	378414	20.039	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	451773	20.080	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	62392	17.260	ug/l	92
78) 4-Chlorotoluene	13.223	91	355504	19.728	ug/l	100
79) tert-butylbenzene	13.441	119	394923	19.733	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	446967	19.744	ug/l	97
81) sec-Butylbenzene	13.617	105	561687	19.528	ug/l	96
82) p-Isopropyltoluene	13.735	119	439490	19.230	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	222493	19.654	ug/l	96
84) 1,4-Dichlorobenzene	13.812	146	212601	19.552	ug/l	99
85) n-Butylbenzene	14.059	91	371094	18.396	ug/l	99
86) Hexachloroethane	14.335	117	84833	18.954	ug/l	96
87) 1,2-Dichlorobenzene	14.106	146	228827	20.358	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	42975	20.560	ug/l	97
89) 1,2,4-Trichlorobenzene	15.394	180	99389	19.361	ug/l	97
90) Hexachlorobutadiene	15.506	225	46756	18.680	ug/l	93
91) Naphthalene	15.641	128	409761	20.116	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	99009	18.437	ug/l	95

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

