

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092521\
 Data File : VN068688.D
 Acq On : 26 Sep 2021 1:08
 Operator : JC/MD
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 9/27/2021 11:01:33 AM

Quant Time: Sep 27 06:53:48 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 27 06:50:46 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	139416	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	769156	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	754800	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	323408	36.901	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 123.000%#			
60) 4-Bromofluorobenzene	12.733	95	373211	34.241	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 114.133%#			
63) Toluene-d8	10.443	98	1005942	30.200	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.667%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.070	85	1201637	178.661	ug/l	98
3) Chloromethane	2.298	50	1652587	234.746	ug/l	98
4) Vinyl Chloride	2.440	62	1667058	161.636	ug/l	99
5) Bromomethane	2.815	94	702707	75.256	ug/l	98
6) Chloroethane	2.990	64	883756	121.388	ug/l	99
7) Trichlorofluoromethane	3.360	101	2038758	162.184	ug/l	97
8) Diethyl Ether	3.821	74	801463	197.337	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.207	101	1137067	160.325	ug/l	98
10) 1,1-Dichloroethene	4.178	96	1135484	171.765	ug/l	95
11) Methyl Iodide	4.419	142	1526275	152.636	ug/l	98
12) Methyl Acetate	4.848	43	2470814	290.902	ug/l	99
13) Acrolein	4.038	56	357773	689.518	ug/l #	27
14) Acrylonitrile	5.551	53	3830003	1179.345	ug/l	99
15) Acetone	4.285	58	907923	1058.220	ug/l	95
16) Carbon Disulfide	4.529	76	3450427	195.872	ug/l	99
17) Allyl chloride	4.838	41	2392037	260.182	ug/l	91
18) Methylene Chloride	5.095	84	1341663	168.362	ug/l	96
19) trans-1,2-Dichloroethene	5.597	96	1230157	165.826	ug/l	94
20) Diisopropyl ether	6.495	45	4920163	242.855	ug/l	97
21) 1,1-Dichloroethane	6.388	63	2527303	197.789	ug/l	99
22) cis-1,2-Dichloroethene	7.324	96	1475915	166.434	ug/l	99
23) tert-Butyl Alcohol	5.371	59	1263975	1016.107	ug/l #	100
24) Methyl tert-Butyl Ether	5.613	73	4310711	187.316	ug/l	100
25) Chloroform	7.817	83	2467180	168.628	ug/l	98
26) Cyclohexane	8.096	56	2406278	220.741	ug/l #	96
29) 1,1-Dichloropropene	8.222	75	1940313	179.962	ug/l	99
30) 2-Butanone	7.332	43	5380016	1202.898	ug/l	100
31) 2,2-Dichloropropane	7.327	77	1627129	138.836	ug/l	99
32) 1,1,1-Trichloroethane	8.016	97	2184452	153.521	ug/l	98
33) Carbon Tetrachloride	8.206	117	1942340	146.817	ug/l	100
34) Benzene	8.461	78	5725658	174.619	ug/l	96
35) Methacrylonitrile	7.635	41	1113397	251.545	ug/l	98
36) 1,2-Dichloroethane	8.531	62	2053977	183.399	ug/l	100
37) Trichloroethene	9.217	130	1410762	140.284	ug/l	100
38) Methylcyclohexane	9.461	83	2404710	176.414	ug/l	99
39) 1,2-Dichloropropane	9.491	63	1560563	197.001	ug/l	99
40) Dibromomethane	9.577	93	970037	155.600	ug/l	99
41) Bromodichloromethane	9.764	83	2027185	167.112	ug/l	98
42) Vinyl Acetate	6.431	43	19581237	1190.195	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	2190606	232.833	ug/l	95
44) Isopropyl Acetate	8.560	43	3777919	235.202	ug/l	98
45) 1,4-Dioxane	9.569	88	489245	3316.860	ug/l	96
46) Methyl methacrylate	9.561	41	1746160	265.717	ug/l	93
47) n-amyl Acetate	12.387	43	3271463	286.341	ug/l	97
48) t-1,3-Dichloropropene	10.719	75	2345479	189.159	ug/l	99
49) cis-1,3-Dichloropropene	10.191	75	2430095	183.224	ug/l	96
50) 1,1,2-Trichloroethane	10.899	97	1409444	157.253	ug/l	98
51) Ethyl methacrylate	10.762	69	2549864	212.787	ug/l	94
52) 1,3-Dichloropropane	11.046	76	2496966	182.943	ug/l	99
53) Dibromochloromethane	11.240	129	1599983	148.367	ug/l	99
54) 1,2-Dibromoethane	11.347	107	1496869	157.218	ug/l	98
55) 2-Chloroethyl vinyl ether	10.043	63	3482815	1575.996	ug/l	99
56) Bromoform	12.460	173	1161368	135.673	ug/l #	99
58) 4-Methyl-2-Pentanone	10.333	43	11846358	1163.409	ug/l	98
59) 2-Hexanone	11.087	43	8499130	1196.427	ug/l	98
61) Tetrachloroethene	10.979	164	1230732	116.145	ug/l	97
62) Toluene	10.507	91	6277683	153.577	ug/l	99
64) Chlorobenzene	11.771	112	3987122	150.430	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.843	131	1457875	136.650	ug/l	98
66) Ethyl Benzene	11.846	91	7300333	164.365	ug/l	99
67) m/p-Xylenes	11.956	106	5590007	311.305	ug/l	100
68) o-Xylene	12.283	106	2802056	157.541	ug/l	98
69) Styrene	12.296	104	4629579	164.691	ug/l	98
70) Isopropylbenzene	12.581	105	7186614	159.449	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.830	83	2060120	164.305	ug/l	100
72) 1,2,3-Trichloropropane	12.881	75	2016117m	191.092	ug/l	
73) Bromobenzene	12.862	156	1613472	129.606	ug/l	95
74) n-propylbenzene	12.921	91	8332949	169.670	ug/l	100
75) 2-Chlorotoluene	13.010	91	4907819	166.152	ug/l	98
76) 1,3,5-Trimethylbenzene	13.061	105	5790775	154.101	ug/l	100
77) t-1,4-Dichloro-2-butene	12.626	75	709288	202.887	ug/l	91
78) 4-Chlorotoluene	13.106	91	4807133	169.922	ug/l	98
79) tert-butylbenzene	13.326	119	5175803	151.394	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	5661393m	155.531	ug/l	
81) sec-Butylbenzene	13.503	105	7330369	160.969	ug/l	100
82) p-Isopropyltoluene	13.616	119	5999698	154.353	ug/l	99
83) 1,3-Dichlorobenzene	13.616	146	2854168	132.161	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	2773775	133.723	ug/l	100
85) n-Butylbenzene	13.943	91	5160838	181.897	ug/l	98
86) Hexachloroethane	14.211	117	1159509	160.721	ug/l	98
87) 1,2-Dichlorobenzene	13.989	146	2658515	128.067	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.605	75	414710	189.875	ug/l	98
89) 1,2,4-Trichlorobenzene	15.265	180	1493492	145.314	ug/l	99
90) Hexachlorobutadiene	15.372	225	674150	107.078	ug/l	99
91) Naphthalene	15.507	128	4297127	188.135	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	1412079	145.714	ug/l	100

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

