

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090321\
 Data File : VN068402.D
 Acq On : 3 Sep 2021 12:11
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 9/7/2021 4:38:58 PM

Quant Time: Sep 03 13:04:05 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 03 13:01:16 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	129934	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	648856m	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	589648	30.000	ug/l	# 0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	220050	22.700	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	75.667%#		
60) 4-Bromofluorobenzene	12.733	95	251356	27.079	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	90.267%		
63) Toluene-d8	10.446	98	772390	28.679	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.600%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	676490	98.633	ug/l	98
3) Chloromethane	2.306	50	582445	73.115	ug/l	99
4) Vinyl Chloride	2.448	62	869909	71.246	ug/l	95
5) Bromomethane	2.832	94	805996	77.643	ug/l	93
6) Chloroethane	3.006	64	606607	68.510	ug/l	# 89
7) Trichlorofluoromethane	3.373	101	1188573	54.778	ug/l	97
8) Diethyl Ether	3.829	74	386847	88.004	ug/l	76
9) 1,1,2-Trichlorotrifluo...	4.218	101	685242	96.579	ug/l	80
10) 1,1-Dichloroethene	4.189	96	646453	97.378	ug/l	# 76
11) Methyl Iodide	4.430	142	1108093	123.330	ug/l	86
12) Methyl Acetate	4.854	43	643596m	76.291	ug/l	
13) Acrolein	4.046	56	283997	298.285	ug/l	99
14) Acrylonitrile	5.556	53	1339817	371.533	ug/l	98
15) Acetone	4.285	58	373119	367.036	ug/l	69
16) Carbon Disulfide	4.540	76	1682333	95.493	ug/l	99
17) Allyl chloride	4.846	41	820442	76.845	ug/l	90
18) Methylene Chloride	5.101	84	684275	82.155	ug/l	# 81
19) trans-1,2-Dichloroethene	5.602	96	738812	96.158	ug/l	# 74
20) Diisopropyl ether	6.498	45	1707836	68.665	ug/l	# 91
21) 1,1-Dichloroethane	6.391	63	1133277	80.526	ug/l	94
22) cis-1,2-Dichloroethene	7.329	96	858487m	93.204	ug/l	
23) tert-Butyl Alcohol	5.369	59	476702	339.610	ug/l	# 100
24) Methyl tert-Butyl Ether	5.615	73	2157576	84.509	ug/l	# 86
25) Chloroform	7.820	83	1336700	85.065	ug/l	99
26) Cyclohexane	8.099	56	1014969	81.996	ug/l	# 75
29) 1,1-Dichloropropene	8.225	75	961291	94.283	ug/l	90
30) 2-Butanone	7.335	43	1708499	372.049	ug/l	# 86
31) 2,2-Dichloropropane	7.329	77	1096037	93.256	ug/l	# 90
32) 1,1,1-Trichloroethane	8.018	97	1269693	99.636	ug/l	# 92
33) Carbon Tetrachloride	8.209	117	1198551	108.619	ug/l	95
34) Benzene	8.464	78	2822689	92.396	ug/l	# 89
35) Methacrylonitrile	7.638	41	343187	73.229	ug/l	83
36) 1,2-Dichloroethane	8.531	62	937210	85.583	ug/l	# 92
37) Trichloroethene	9.220	130	928182	111.551	ug/l	# 73
38) Methylcyclohexane	9.461	83	1296823	109.904	ug/l	83
39) 1,2-Dichloropropane	9.494	63	662609	87.194	ug/l	99
40) Dibromomethane	9.579	93	537086	94.652	ug/l	69
41) Bromodichloromethane	9.764	83	1036328	94.292	ug/l	# 98
42) Vinyl Acetate	6.436	43	6652495	360.968	ug/l	# 88

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	715366	74.742	ug/l #	66
44) Isopropyl Acetate	8.560	43	1242567	75.326	ug/l #	89
45) 1,4-Dioxane	9.569	88	216572	1663.741	ug/l	86
46) Methyl methacrylate	9.561	41	554321	76.669	ug/l	81
47) n-amyl Acetate	12.387	43	889076	66.172	ug/l	92
48) t-1,3-Dichloropropene	10.719	75	1057002	89.295	ug/l	97
49) cis-1,3-Dichloropropene	10.191	75	1165768	93.423	ug/l #	82
50) 1,1,2-Trichloroethane	10.899	97	750897	93.765	ug/l	94
51) Ethyl methacrylate	10.762	69	1007272	83.286	ug/l	80
52) 1,3-Dichloropropane	11.046	76	1128649	86.862	ug/l	99
53) Dibromochloromethane	11.240	129	954094	108.554	ug/l	99
54) 1,2-Dibromoethane	11.347	107	804136	96.673	ug/l	99
55) 2-Chloroethyl vinyl ether	10.043	63	583721	254.508	ug/l #	91
56) Bromoform	12.460	173	756600	119.987	ug/l #	100
58) 4-Methyl-2-Pentanone	10.333	43	3508316	363.289	ug/l #	86
59) 2-Hexanone	11.087	43	2382605	349.762	ug/l #	86
61) Tetrachloroethene	10.979	164	935315	118.444	ug/l	87
62) Toluene	10.507	91	3288038	94.408	ug/l	100
64) Chlorobenzene	11.771	112	2145673	100.855	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	881833	108.438	ug/l	99
66) Ethyl Benzene	11.846	91	3626937	94.458	ug/l	91
67) m/p-Xylenes	11.956	106	2983379	199.935	ug/l	76
68) o-Xylene	12.283	106	1461538	99.478	ug/l	75
69) Styrene	12.296	104	2344240	98.275	ug/l #	89
70) Isopropylbenzene	12.581	105	3739793	98.727	ug/l	93
71) 1,1,2,2-Tetrachloroethane	12.830	83	924294	87.470	ug/l	98
72) 1,2,3-Trichloropropane	12.884	75	663877m	74.815	ug/l	
73) Bromobenzene	12.862	156	1050328	115.865	ug/l	48
74) n-propylbenzene	12.921	91	4044113	94.947	ug/l	87
75) 2-Chlorotoluene	13.010	91	2354377	92.092	ug/l #	100
76) 1,3,5-Trimethylbenzene	13.061	105	3068947	97.728	ug/l	90
77) t-1,4-Dichloro-2-butene	12.626	75	263429	87.892	ug/l	85
78) 4-Chlorotoluene	13.106	91	2307142	91.702	ug/l	81
79) tert-butylbenzene	13.326	119	2843068	105.441	ug/l	80
80) 1,2,4-Trimethylbenzene	13.369	105	3004934m	97.543	ug/l	
81) sec-Butylbenzene	13.503	105	3821022	103.223	ug/l	89
82) p-Isopropyltoluene	13.616	119	3354434	107.467	ug/l	88
83) 1,3-Dichlorobenzene	13.616	146	1845268	110.054	ug/l	91
84) 1,4-Dichlorobenzene	13.696	146	1781916	110.321	ug/l	91
85) n-Butylbenzene	13.943	91	2517075	100.689	ug/l	94
86) Hexachloroethane	14.211	117	574247	107.136	ug/l #	58
87) 1,2-Dichlorobenzene	13.989	146	1743131	110.020	ug/l	91
88) 1,2-Dibromo-3-Chloropr...	14.605	75	169599	89.885	ug/l #	15
89) 1,2,4-Trichlorobenzene	15.265	180	1003076m	133.108	ug/l	
90) Hexachlorobutadiene	15.370	225	565768	150.475	ug/l	97
91) Naphthalene	15.507	128	2129597	109.313	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	929866	130.127	ug/l	94

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

