

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091421\
 Data File : VN068470.D
 Acq On : 14 Sep 2021 14:22
 Operator : JC/MD
 Sample : VN0914WBS01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBS01

Quant Time: Sep 15 05:37:05 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N091321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Sep 14 04:23:31 2021
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/15/2021
 Supervised By : Mahesh Dadoda 09/15/2021

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

Internal Standards						
1) Bromochloromethane	7.659	128	90819	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	491818	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	451223	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	171719	32.016	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.733%			
60) 4-Bromofluorobenzene	12.734	95	200564	31.185	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.933%			
63) Toluene-d8	10.443	98	605065	30.824	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.733%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	92094	22.263	ug/l	98
3) Chloromethane	2.303	50	87163	21.782	ug/l	99
4) Vinyl Chloride	2.443	62	145112	22.881	ug/l	99
5) Bromomethane	2.859	94	145126	23.038	ug/l	96
6) Chloroethane	3.019	64	104682	23.126	ug/l	99
7) Trichlorofluoromethane	3.373	101	170837	21.853	ug/l	100
8) Diethyl Ether	3.827	74	54281	22.014	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.216	101	100765	22.629	ug/l	86
10) 1,1-Dichloroethene	4.186	96	89746	21.685	ug/l	97
11) Methyl Iodide	4.425	142	132435	20.609	ug/l	99
12) Methyl Acetate	4.854	43	91005	21.144	ug/l	96
13) Acrolein	4.047	56	33844	97.756	ug/l	96
14) Acrylonitrile	5.554	53	191492	102.651	ug/l	99
15) Acetone	4.285	58	54731	107.658	ug/l	97
16) Carbon Disulfide	4.535	76	220893	20.681	ug/l	99
17) Allyl chloride	4.841	41	113389m	21.942	ug/l	
18) Methylene Chloride	5.095	84	105124	21.219	ug/l	100
19) trans-1,2-Dichloroethene	5.602	96	100118	21.590	ug/l	97
20) Diisopropyl ether	6.495	45	256447	22.372	ug/l	100
21) 1,1-Dichloroethane	6.388	63	167918	22.041	ug/l	98
22) cis-1,2-Dichloroethene	7.329	96	119272	21.392	ug/l #	85
23) tert-Butyl Alcohol	5.366	59	69012	91.544	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	304638m	21.617	ug/l	
25) Chloroform	7.820	83	202419	22.201	ug/l	100
26) Cyclohexane	8.096	56	142639	22.146	ug/l #	99
29) 1,1-Dichloropropene	8.225	75	139020	21.090	ug/l	99
30) 2-Butanone	7.335	43	248941	98.946	ug/l #	98
31) 2,2-Dichloropropane	7.329	77	163290	21.525	ug/l	99
32) 1,1,1-Trichloroethane	8.016	97	189441	21.163	ug/l	100
33) Carbon Tetrachloride	8.209	117	175097	20.926	ug/l	99
34) Benzene	8.461	78	429345	21.359	ug/l	98
35) Methacrylonitrile	7.646	41	49426	20.370	ug/l	99
36) 1,2-Dichloroethane	8.531	62	145414	21.485	ug/l	99
37) Trichloroethene	9.217	130	132146	20.515	ug/l	98
38) Methylcyclohexane	9.462	83	178533	21.071	ug/l	100
39) 1,2-Dichloropropane	9.491	63	99548	21.041	ug/l	97
40) Dibromomethane	9.577	93	81910	21.072	ug/l	99
41) Bromodichloromethane	9.765	83	155956	20.761	ug/l	98
42) Vinyl Acetate	6.436	43	966151	104.226	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091421\
 Data File : VN068470.D
 Acq On : 14 Sep 2021 14:22
 Operator : JC/MD
 Sample : VN0914WBS01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBS01

Quant Time: Sep 15 05:37:05 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N091321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Sep 14 04:23:31 2021
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/15/2021
 Supervised By : Mahesh Dadoda 09/15/2021

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.413	43	102695	19.352	ug/l #	76
44) Isopropyl Acetate	8.560	43	186883	20.574	ug/l	97
45) 1,4-Dioxane	9.569	88	37239	405.449	ug/l #	88
46) Methyl methacrylate	9.561	41	75062	20.430	ug/l	98
47) n-amyl Acetate	12.390	43	124632	19.541	ug/l	100
48) t-1,3-Dichloropropene	10.722	75	156838	20.621	ug/l	98
49) cis-1,3-Dichloropropene	10.191	75	169966	20.792	ug/l	99
50) 1,1,2-Trichloroethane	10.899	97	115708	20.598	ug/l	99
51) Ethyl methacrylate	10.762	69	145583	20.186	ug/l	97
52) 1,3-Dichloropropane	11.047	76	173981	20.827	ug/l	100
53) Dibromochloromethane	11.240	129	139648	20.218	ug/l	99
54) 1,2-Dibromoethane	11.347	107	124779	20.713	ug/l	97
55) 2-Chloroethyl vinyl ether	10.041	63	89888	73.625	ug/l	99
56) Bromoform	12.460	173	106698	19.233	ug/l #	97
58) 4-Methyl-2-Pentanone	10.331	43	551222	103.776	ug/l	99
59) 2-Hexanone	11.087	43	370486	100.640	ug/l	99
61) Tetrachloroethene	10.980	164	138736	21.384	ug/l	99
62) Toluene	10.508	91	511900	21.555	ug/l	99
64) Chlorobenzene	11.773	112	325883	20.806	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.843	131	134903	21.104	ug/l	99
66) Ethyl Benzene	11.849	91	549209	21.279	ug/l	99
67) m/p-Xylenes	11.956	106	465705	43.774	ug/l	99
68) o-Xylene	12.283	106	226430	21.556	ug/l	98
69) Styrene	12.296	104	355302	21.331	ug/l	100
70) Isopropylbenzene	12.581	105	580368	21.761	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.830	83	154576	21.293	ug/l	99
72) 1,2,3-Trichloropropane	12.881	75	127729m	21.135	ug/l	
73) Bromobenzene	12.862	156	156418	20.660	ug/l	97
74) n-propylbenzene	12.924	91	625350	21.742	ug/l	100
75) 2-Chlorotoluene	13.010	91	379050	21.898	ug/l	99
76) 1,3,5-Trimethylbenzene	13.061	105	488949	21.958	ug/l	100
77) t-1,4-Dichloro-2-butene	12.629	75	39611	19.863	ug/l	96
78) 4-Chlorotoluene	13.106	91	368397	22.177	ug/l	99
79) tert-butylbenzene	13.326	119	440279	21.522	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	469338m	21.787	ug/l	
81) sec-Butylbenzene	13.503	105	588219	21.753	ug/l	100
82) p-Isopropyltoluene	13.619	119	495137	21.348	ug/l	100
83) 1,3-Dichlorobenzene	13.619	146	275059	20.901	ug/l	100
84) 1,4-Dichlorobenzene	13.696	146	259732	20.603	ug/l	99
85) n-Butylbenzene	13.946	91	335383	20.330	ug/l	100
86) Hexachloroethane	14.214	117	89694	21.053	ug/l	98
87) 1,2-Dichlorobenzene	13.989	146	263440	20.832	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.603	75	24062	19.601	ug/l	96
89) 1,2,4-Trichlorobenzene	15.265	180	106462	17.424	ug/l	98
90) Hexachlorobutadiene	15.373	225	76949	19.913	ug/l	98
91) Naphthalene	15.509	128	198426	15.054	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	97986	17.029	ug/l	99

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

