

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090321\
 Data File : VN068407.D
 Acq On : 3 Sep 2021 15:02
 Operator : JC/MD
 Sample : VN0903WBS01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0903WBS01

Manual Integrations
 APPROVED

MMDadoda
 9/7/2021 4:39:14 PM

Quant Time: Sep 04 03:10:57 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 03 13:24:01 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	115206	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	621225	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.747	117	549768	30.000	ug/l	# 0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	219381	32.120	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 107.067%	
60) 4-Bromofluorobenzene	12.734	95	237039	30.446	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 101.500%	
63) Toluene-d8	10.443	98	753447	30.775	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.567%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	107246	18.385	ug/l	99
3) Chloromethane	2.309	50	99141	18.784	ug/l	99
4) Vinyl Chloride	2.448	62	155343	19.752	ug/l	94
5) Bromomethane	2.845	94	157570	21.850	ug/l	97
6) Chloroethane	3.019	64	110217	19.645	ug/l	91
7) Trichlorofluoromethane	3.379	101	199843	18.578	ug/l	96
8) Diethyl Ether	3.829	74	63718	18.647	ug/l	76
9) 1,1,2-Trichlorotrifluo...	4.216	101	113187	18.507	ug/l	84
10) 1,1-Dichloroethene	4.189	96	103593	18.027	ug/l	# 74
11) Methyl Iodide	4.433	142	141644	15.321	ug/l	88
12) Methyl Acetate	4.862	43	110022	19.022	ug/l	# 86
13) Acrolein	4.047	56	41739	80.514	ug/l	99
14) Acrylonitrile	5.557	53	218987	93.370	ug/l	100
15) Acetone	4.291	58	73938	107.258	ug/l	74
16) Carbon Disulfide	4.540	76	268343	17.870	ug/l	100
17) Allyl chloride	4.849	41	133651	18.987	ug/l	91
18) Methylene Chloride	5.106	84	120049	19.088	ug/l	# 76
19) trans-1,2-Dichloroethene	5.602	96	113241	17.678	ug/l	# 76
20) Diisopropyl ether	6.498	45	287149	18.666	ug/l	# 92
21) 1,1-Dichloroethane	6.391	63	188896	18.567	ug/l	95
22) cis-1,2-Dichloroethene	7.329	96	132837	17.847	ug/l	# 80
23) tert-Butyl Alcohol	5.361	59	102974	119.619	ug/l	# 100
24) Methyl tert-Butyl Ether	5.616	73	345320	18.496	ug/l	# 88
25) Chloroform	7.820	83	217456	18.198	ug/l	99
26) Cyclohexane	8.096	56	166460	18.678	ug/l	# 79
29) 1,1-Dichloropropene	8.223	75	158411	17.775	ug/l	92
30) 2-Butanone	7.337	43	298196	93.520	ug/l	# 87
31) 2,2-Dichloropropane	7.327	77	179236	17.660	ug/l	91
32) 1,1,1-Trichloroethane	8.019	97	205781	17.580	ug/l	93
33) Carbon Tetrachloride	8.209	117	186425	17.238	ug/l	96
34) Benzene	8.461	78	464488	17.632	ug/l	# 94
35) Methacrylonitrile	7.638	41	55596	17.848	ug/l	86
36) 1,2-Dichloroethane	8.531	62	158944	18.020	ug/l	# 95
37) Trichloroethene	9.220	130	146847	17.439	ug/l	# 75
38) Methylcyclohexane	9.462	83	203945	17.628	ug/l	85
39) 1,2-Dichloropropane	9.491	63	108451	17.366	ug/l	99
40) Dibromomethane	9.580	93	87992	17.805	ug/l	77
41) Bromodichloromethane	9.765	83	167987	17.594	ug/l	# 99
42) Vinyl Acetate	6.436	43	1080899	89.630	ug/l	# 91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.413	43	126967m	20.025	ug/l	
44) Isopropyl Acetate	8.560	43	210035m	18.234	ug/l	
45) 1,4-Dioxane	9.572	88	38822	377.035	ug/l	87
46) Methyl methacrylate	9.561	41	92558	19.005	ug/l	84
47) n-amyl Acetate	12.388	43	136467	17.315	ug/l #	90
48) t-1,3-Dichloropropene	10.719	75	168297	17.910	ug/l	100
49) cis-1,3-Dichloropropene	10.191	75	179983	17.366	ug/l #	84
50) 1,1,2-Trichloroethane	10.899	97	122362	17.551	ug/l	95
51) Ethyl methacrylate	10.762	69	157415	17.562	ug/l	82
52) 1,3-Dichloropropane	11.047	76	188888	17.945	ug/l	99
53) Dibromochloromethane	11.240	129	143208	17.045	ug/l	97
54) 1,2-Dibromoethane	11.350	107	128250	17.600	ug/l	99
55) 2-Chloroethyl vinyl ether	10.044	63	56403	93.562	ug/l #	93
56) Bromoform	12.460	173	105482	16.406	ug/l #	97
58) 4-Methyl-2-Pentanone	10.331	43	605663	94.673	ug/l #	89
59) 2-Hexanone	11.087	43	423427	95.373	ug/l	89
61) Tetrachloroethene	10.980	164	147087	17.304	ug/l	90
62) Toluene	10.508	91	544531	18.052	ug/l	99
64) Chlorobenzene	11.773	112	343840	17.680	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	138183	17.746	ug/l	98
66) Ethyl Benzene	11.846	91	575072	17.711	ug/l	92
67) m/p-Xylenes	11.956	106	479135	35.987	ug/l	78
68) o-Xylene	12.283	106	230682	17.888	ug/l	78
69) Styrene	12.296	104	359876	17.675	ug/l #	90
70) Isopropylbenzene	12.581	105	599802	18.058	ug/l	95
71) 1,1,2,2-Tetrachloroethane	12.830	83	157540	18.546	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	145517m	20.897	ug/l	
73) Bromobenzene	12.862	156	158628	17.257	ug/l	53
74) n-propylbenzene	12.921	91	646886	18.030	ug/l	89
75) 2-Chlorotoluene	13.010	91	386588	18.156	ug/l #	100
76) 1,3,5-Trimethylbenzene	13.061	105	498202	18.129	ug/l	90
77) t-1,4-Dichloro-2-butene	12.626	75	37588	17.804	ug/l	87
78) 4-Chlorotoluene	13.106	91	372959	17.865	ug/l	82
79) tert-butylbenzene	13.326	119	449281	17.883	ug/l	82
80) 1,2,4-Trimethylbenzene	13.369	105	482952m	18.093	ug/l	
81) sec-Butylbenzene	13.503	105	603981	17.908	ug/l	89
82) p-Isopropyltoluene	13.619	119	513045	17.676	ug/l	90
83) 1,3-Dichlorobenzene	13.619	146	283366	17.457	ug/l	90
84) 1,4-Dichlorobenzene	13.696	146	268829	17.178	ug/l	92
85) n-Butylbenzene	13.946	91	355856	16.443	ug/l	95
86) Hexachloroethane	14.211	117	84303	17.170	ug/l	74
87) 1,2-Dichlorobenzene	13.991	146	263256	17.062	ug/l	92
88) 1,2-Dibromo-3-Chloropr...	14.603	75	25886	17.607	ug/l #	34
89) 1,2,4-Trichlorobenzene	15.265	180	121679	14.681	ug/l	96
90) Hexachlorobutadiene	15.373	225	80203	16.466	ug/l	96
91) Naphthalene	15.507	128	241659	13.793	ug/l	99
92) 1,2,3-Trichlorobenzene	15.703	180	113949	14.455	ug/l	95

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

