

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121321\
 Data File : VN070034.D
 Acq On : 13 Dec 2021 16:04
 Operator : JC/MD
 Sample : VN1213WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/14/2021
 Supervised By : Amit Patel 12/15/2021

Quant Time: Dec 14 05:27:15 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Dec 14 00:59:04 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	165062	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	902008	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.744	117	817914	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	449041	30.698	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.333%			
60) 4-Bromofluorobenzene	12.731	95	393188	29.215	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.367%			
63) Toluene-d8	10.440	98	1161985	30.743	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.467%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	251432	20.990	ug/l	99
3) Chloromethane	2.303	50	280212	20.423	ug/l	98
4) Vinyl Chloride	2.448	62	254010	19.675	ug/l	99
5) Bromomethane	2.864	94	146737	20.793	ug/l	100
6) Chloroethane	3.022	64	146158	19.717	ug/l	100
7) Trichlorofluoromethane	3.379	101	342668	20.331	ug/l	98
8) Diethyl Ether	3.824	74	137440	20.551	ug/l	78
9) 1,1,2-Trichlorotrifluo...	4.210	101	201896	20.394	ug/l #	71
10) 1,1-Dichloroethene	4.181	96	182701	19.402	ug/l #	82
11) Methyl Iodide	4.419	142	253813	19.262	ug/l	98
12) Methyl Acetate	4.857	43	493812	21.289	ug/l #	88
13) Acrolein	4.041	56	177730	94.660	ug/l	100
14) Acrylonitrile	5.557	53	701026	104.673	ug/l	99
15) Acetone	4.288	58	213797	87.975	ug/l	77
16) Carbon Disulfide	4.527	76	549119	19.353	ug/l	98
17) Allyl chloride	4.840	41	418206	19.748	ug/l	86
18) Methylene Chloride	5.093	84	231083	20.358	ug/l #	82
19) trans-1,2-Dichloroethene	5.597	96	197645	19.761	ug/l	85
20) Diisopropyl ether	6.498	45	839269	20.692	ug/l #	94
21) 1,1-Dichloroethane	6.388	63	424863	19.871	ug/l	99
22) cis-1,2-Dichloroethene	7.327	96	238094	20.112	ug/l	90
23) tert-Butyl Alcohol	5.380	59	228744	108.045	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	702109	20.997	ug/l	95
25) Chloroform	7.817	83	426662	20.084	ug/l	99
26) Cyclohexane	8.094	56	388051	19.607	ug/l #	84
29) 1,1-Dichloropropene	8.222	75	307501	19.799	ug/l	97
30) 2-Butanone	7.337	43	1065398	99.704	ug/l #	91
31) 2,2-Dichloropropane	7.324	77	312991	19.271	ug/l	96
32) 1,1,1-Trichloroethane	8.013	97	363101	20.186	ug/l	95
33) Carbon Tetrachloride	8.206	117	316532	19.797	ug/l	99
34) Benzene	8.461	78	931558	20.288	ug/l #	96
35) Methacrylonitrile	7.638	41	210235	21.269	ug/l	89
36) 1,2-Dichloroethane	8.531	62	373893	20.628	ug/l	98
37) Trichloroethene	9.215	130	216746	19.846	ug/l	90
38) Methylcyclohexane	9.462	83	359639	19.480	ug/l	87
39) 1,2-Dichloropropane	9.491	63	251743	20.565	ug/l	98
40) Dibromomethane	9.577	93	168192	20.829	ug/l	95
41) Bromodichloromethane	9.762	83	347416	20.347	ug/l	95
42) Vinyl Acetate	6.436	43	3284640	104.642	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.413	43	382156	20.590	ug/l	96
44) Isopropyl Acetate	8.560	43	632914	21.185	ug/l	96
45) 1,4-Dioxane	9.569	88	94953	449.134	ug/l #	82
46) Methyl methacrylate	9.561	41	293241	20.725	ug/l	80
47) n-amyl Acetate	12.390	43	408219	19.594	ug/l	99
48) t-1,3-Dichloropropene	10.717	75	335825	19.555	ug/l	99
49) cis-1,3-Dichloropropene	10.188	75	368954	19.796	ug/l	93
50) 1,1,2-Trichloroethane	10.899	97	226515	20.638	ug/l	98
51) Ethyl methacrylate	10.760	69	358411	20.431	ug/l	88
52) 1,3-Dichloropropane	11.044	76	401332	20.651	ug/l	99
53) Dibromochloromethane	11.237	129	243717	19.767	ug/l	100
54) 1,2-Dibromoethane	11.347	107	231970	20.743	ug/l	99
55) 2-Chloroethyl vinyl ether	10.041	63	309813	90.089	ug/l	96
56) Bromoform	12.457	173	184746	19.681	ug/l #	100
58) 4-Methyl-2-Pentanone	10.331	43	2054370	109.433	ug/l #	94
59) 2-Hexanone	11.084	43	1468416	105.804	ug/l	94
61) Tetrachloroethene	10.977	164	196226	20.541	ug/l	95
62) Toluene	10.505	91	990655	20.595	ug/l	99
64) Chlorobenzene	11.771	112	577304	20.222	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.840	131	224469	20.876	ug/l	97
66) Ethyl Benzene	11.846	91	1072382	20.053	ug/l	99
67) m/p-Xylenes	11.953	106	803441	41.122	ug/l	96
68) o-Xylene	12.280	106	389314	20.139	ug/l	95
69) Styrene	12.294	104	630141	19.999	ug/l	97
70) Isopropylbenzene	12.578	105	1015629	20.025	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.827	83	355639	21.379	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	335533m	21.676	ug/l	
73) Bromobenzene	12.860	156	239458	20.344	ug/l	91
74) n-propylbenzene	12.921	91	1164939	19.816	ug/l	98
75) 2-Chlorotoluene	13.007	91	720092	20.017	ug/l	96
76) 1,3,5-Trimethylbenzene	13.058	105	845822	20.297	ug/l	100
77) t-1,4-Dichloro-2-butene	12.626	75	95368	19.592	ug/l	89
78) 4-Chlorotoluene	13.106	91	688556	19.959	ug/l	93
79) tert-butylbenzene	13.324	119	718977	19.880	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	811567m	20.140	ug/l	
81) sec-Butylbenzene	13.501	105	991178	19.641	ug/l	99
82) p-Isopropyltoluene	13.616	119	787253	19.581	ug/l	100
83) 1,3-Dichlorobenzene	13.616	146	406369	20.413	ug/l	99
84) 1,4-Dichlorobenzene	13.694	146	380785	19.885	ug/l	98
85) n-Butylbenzene	13.943	91	623247	18.555	ug/l	99
86) Hexachloroethane	14.209	117	152081	18.961	ug/l	89
87) 1,2-Dichlorobenzene	13.989	146	388650	20.322	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.603	75	65696	20.646	ug/l	96
89) 1,2,4-Trichlorobenzene	15.263	180	174812	19.648	ug/l	97
90) Hexachlorobutadiene	15.370	225	110653	20.896	ug/l	98
91) Naphthalene	15.507	128	454758	21.857	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	171849	20.443	ug/l	99

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

