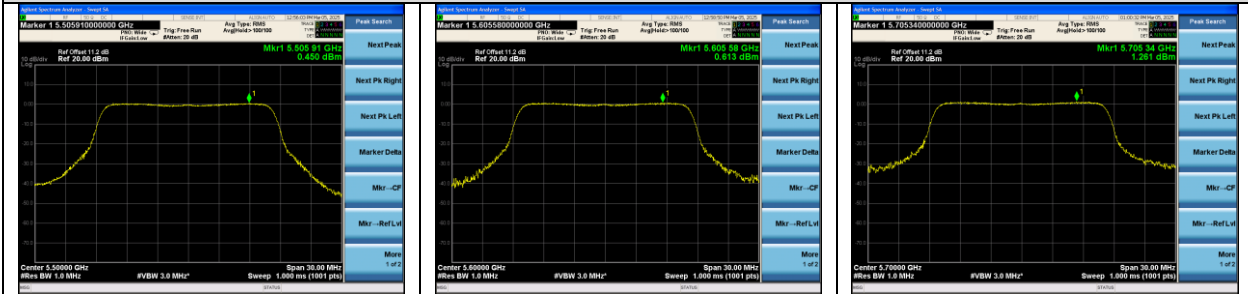
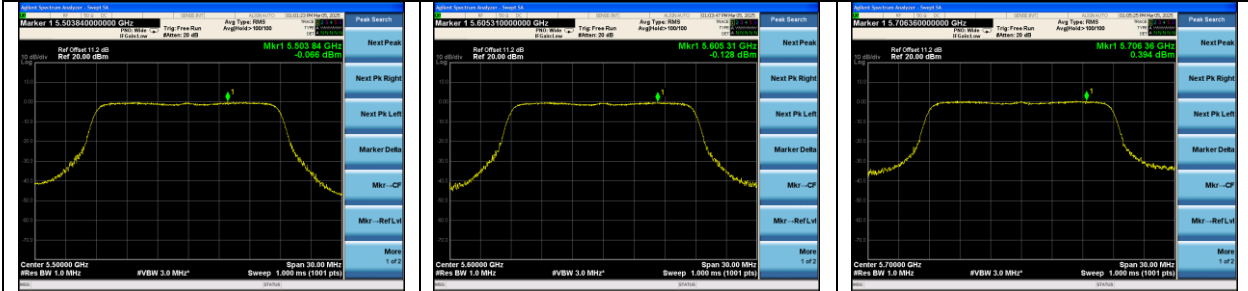


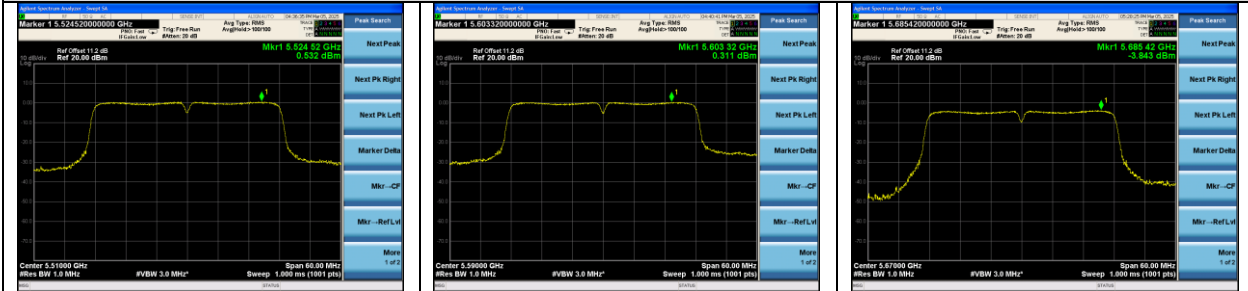
U-NII-2C Band IEEE 802.11a



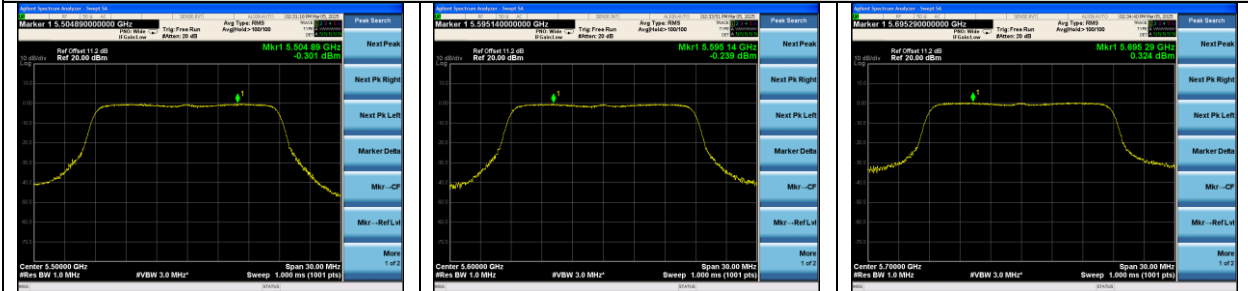
IEEE 802.11n HT20

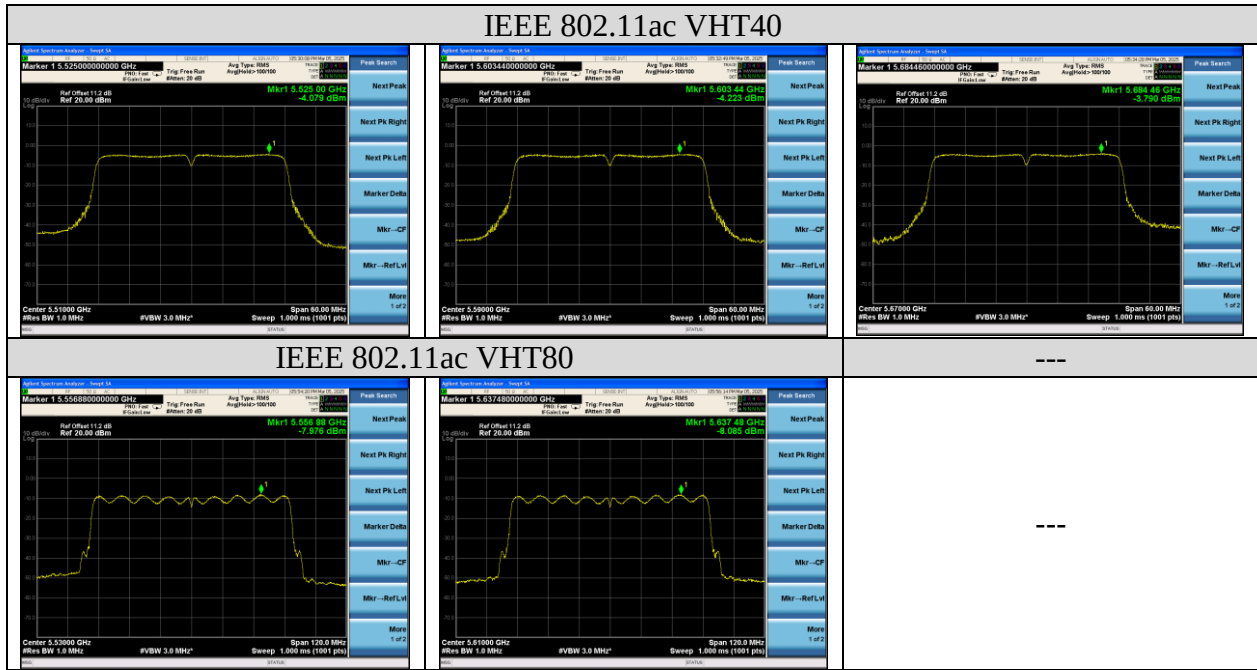


IEEE 802.11n HT40



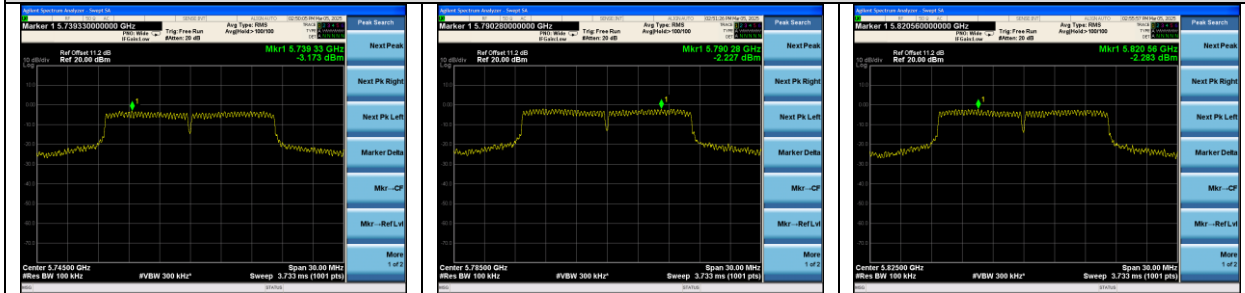
IEEE 802.11ac VHT20



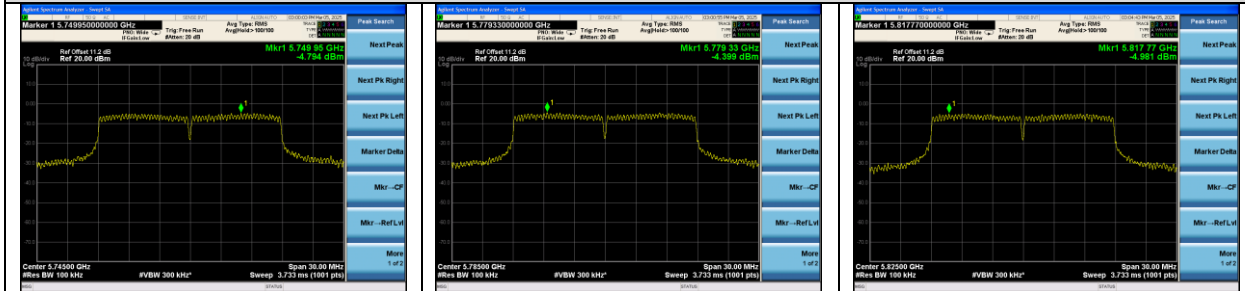


U-NII-3 Band

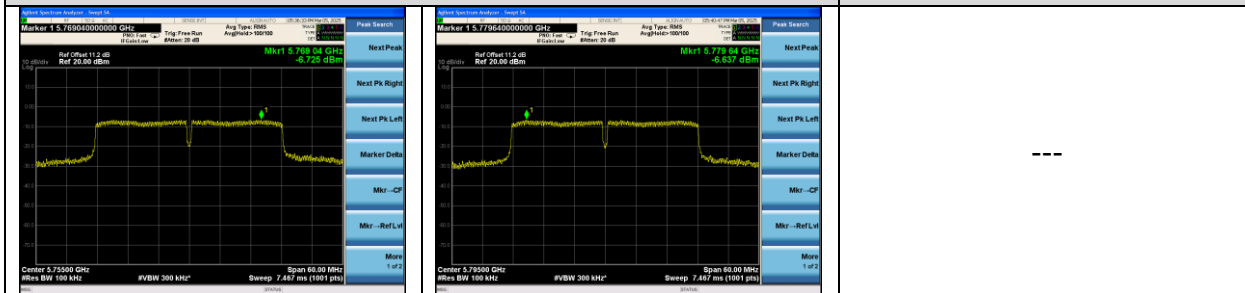
IEEE 802.11a



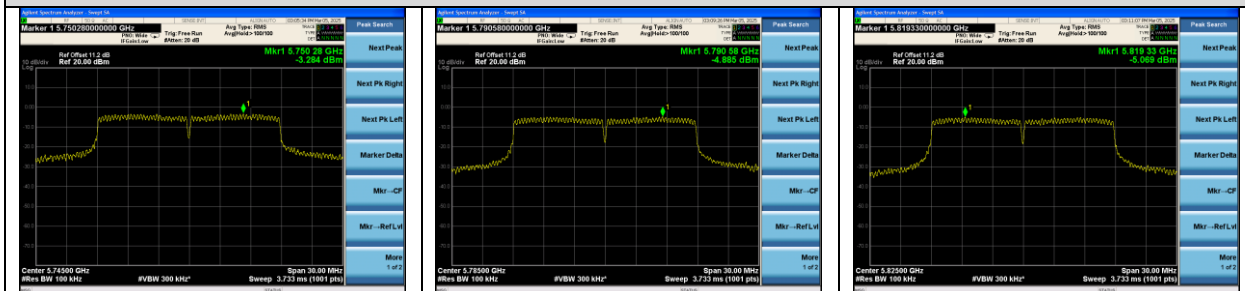
IEEE 802.11n HT20



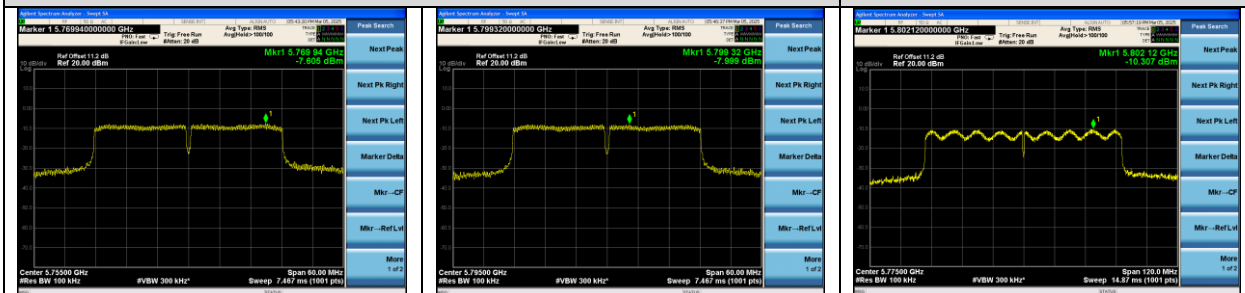
IEEE 802.11n HT40



IEEE 802.11ac VHT20



IEEE 802.11ac VHT40



IEEE 802.11ac VHT80

9. FREQUENCY STABILITY MEASUREMENT

9.1.Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

9.2.Test Procedure

Use the test method described in ANSI C63.10 clause 6.8:

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
EUT have transmitted absence of modulation signal and fixed channelise. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f \times 10^{-6}$ ppm. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
2. Extreme temperature is 5°C~40°C.

9.3.Test Result

EUT: Notebook Computer		
M/N: N24G4		
Test date:2025-03-05	Pressure: 102.7±1.0 kpa	Humidity: 53.4±3.0%
Tested by: Epoch	Test site: RF site	Temperature: 23.8±0.6℃

Frequency Stability vs.Voltage:

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
DC 120V	25℃	CH36	5179.9665	5180	-6.4672
		CH38	5189.9655	5190	-6.6474
		CH40	5199.9660	5200	-6.5385
		CH42	5209.9660	5210	-6.5259
		CH46	5229.9660	5230	-6.5010
		CH48	5239.9655	5240	-6.5840
		CH52	5259.9655	5260	-6.5589
		CH54	5269.9655	5270	-6.5465
		CH58	5289.9650	5290	-6.6163
		CH60	5299.9655	5300	-6.5094
		CH62	5309.9645	5310	-6.6855
		CH64	5319.9650	5320	-6.5789
		CH100	5499.9645	5500	-6.4545
		CH102	5509.9640	5510	-6.5336
		CH106	5529.9635	5530	-6.6004
		CH110	5549.9635	5550	-6.5766
		CH116	5579.9630	5580	-6.6308
		CH118	5589.9630	5590	-6.6190
		CH120	5599.9630	5600	-6.6071
		CH122	5609.9620	5610	-6.7736
		CH134	5669.9615	5670	-6.7901
		CH140	5699.9615	5700	-6.7544
		CH149	5744.9615	5745	-6.7015
		CH151	5754.9610	5755	-6.7767
		CH155	5774.9610	5775	-6.7532
		CH157	5784.9615	5785	-6.6551
		CH159	5794.9610	5795	-6.7299
		CH165	5824.9610	5825	-6.6953

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
DC 132V	25℃	CH36	5179.9675	5180	-6.2741
		CH38	5189.9684	5190	-6.0983
		CH40	5199.9684	5200	-6.0769
		CH42	5209.9668	5210	-6.3724
		CH46	5229.9683	5230	-6.0612
		CH48	5239.9703	5240	-5.6679
		CH52	5259.9705	5260	-5.6179
		CH54	5269.9692	5270	-5.8539
		CH58	5289.9689	5290	-5.8790
		CH60	5299.9686	5300	-5.9340
		CH62	5309.9663	5310	-6.3559
		CH64	5319.9668	5320	-6.2406
		CH100	5499.9676	5500	-5.9000
		CH102	5509.9662	5510	-6.1434
		CH106	5529.9654	5530	-6.2568
		CH110	5549.9676	5550	-5.8378
		CH116	5579.9644	5580	-6.3799
		CH118	5589.9665	5590	-5.9928
		CH120	5599.9666	5600	-5.9732
		CH122	5609.9641	5610	-6.3993
		CH134	5669.9641	5670	-6.3404
		CH140	5699.9629	5700	-6.5175
		CH149	5744.9644	5745	-6.1967
		CH151	5754.9650	5755	-6.0904
		CH155	5774.9628	5775	-6.4416
		CH157	5784.9649	5785	-6.0761
		CH159	5794.9630	5795	-6.3848
		CH165	5824.9637	5825	-6.2403

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
DC 109V	25℃	CH36	5179.9710	5180	-5.5985
		CH38	5189.9699	5190	-5.8092
		CH40	5199.9680	5200	-6.1538
		CH42	5209.9705	5210	-5.6622
		CH46	5229.9668	5230	-6.3480
		CH48	5239.9662	5240	-6.4599
		CH52	5259.9695	5260	-5.8080
		CH54	5269.9734	5270	-5.0569
		CH58	5289.9722	5290	-5.2552
		CH60	5299.9704	5300	-5.5943
		CH62	5309.9697	5310	-5.7062
		CH64	5319.9670	5320	-6.2030
		CH100	5499.9700	5500	-5.4545
		CH102	5509.9692	5510	-5.5989
		CH106	5529.9670	5530	-5.9675
		CH110	5549.9721	5550	-5.0270
		CH116	5579.9706	5580	-5.2688
		CH118	5589.9690	5590	-5.5456
		CH120	5599.9655	5600	-6.1607
		CH122	5609.9676	5610	-5.7843
		CH134	5669.9672	5670	-5.7937
		CH140	5699.9682	5700	-5.5789
		CH149	5744.9691	5745	-5.3873
		CH151	5754.9674	5755	-5.6646
		CH155	5774.9685	5775	-5.4632
		CH157	5784.9674	5785	-5.6353
		CH159	5794.9659	5795	-5.8930
		CH165	5824.9685	5825	-5.4077

Frequency Stability vs. Temperature:

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
DC 120V	5℃	CH36	5179.9740	5180	-5.0193
		CH38	5189.9767	5190	-4.4894
		CH40	5199.9704	5200	-5.6923
		CH42	5209.9768	5210	-4.4530
		CH46	5229.9688	5230	-5.9751
		CH48	5239.9722	5240	-5.3149
		CH52	5259.9732	5260	-5.1046
		CH54	5269.9735	5270	-5.0285
		CH58	5289.9712	5290	-5.4537
		CH60	5299.9717	5300	-5.3491
		CH62	5309.9749	5310	-4.7363
		CH64	5319.9759	5320	-4.5395
		CH100	5499.9721	5500	-5.0727
		CH102	5509.9697	5510	-5.4991
		CH106	5529.9710	5530	-5.2532
		CH110	5549.9735	5550	-4.7838
		CH116	5579.9680	5580	-5.7348
		CH118	5589.9698	5590	-5.4114
		CH120	5599.9691	5600	-5.5179
		CH122	5609.9698	5610	-5.3922
		CH134	5669.9747	5670	-4.4709
		CH140	5699.9682	5700	-5.5877
		CH149	5744.9705	5745	-5.1349
		CH151	5754.9708	5755	-5.0738
		CH155	5774.9707	5775	-5.0736
		CH157	5784.9649	5785	-6.0761
		CH159	5794.9713	5795	-4.9525
		CH165	5824.9731	5825	-4.6180

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
DC 120V	10℃	CH36	5179.9615	5180	-7.4324
		CH38	5189.9694	5190	-5.9056
		CH40	5199.9678	5200	-6.2019
		CH42	5209.9686	5210	-6.0269
		CH46	5229.9702	5230	-5.7075
		CH48	5239.9664	5240	-6.4122
		CH52	5259.9686	5260	-5.9791
		CH54	5269.9671	5270	-6.2429
		CH58	5289.9650	5290	-6.6163
		CH60	5299.9658	5300	-6.4623
		CH62	5309.9674	5310	-6.1488
		CH64	5319.9698	5320	-5.6767
		CH100	5499.9657	5500	-6.2364
		CH102	5509.9690	5510	-5.6352
		CH106	5529.9657	5530	-6.2116
		CH110	5549.9640	5550	-6.4865
		CH116	5579.9668	5580	-5.9498
		CH118	5589.9650	5590	-6.2612
		CH120	5599.9639	5600	-6.4554
		CH122	5609.9655	5610	-6.1586
		CH134	5669.9622	5670	-6.6755
		CH140	5699.9662	5700	-5.9386
		CH149	5744.9623	5745	-6.5709
		CH151	5754.9645	5755	-6.1772
		CH155	5774.9619	5775	-6.5974
		CH157	5784.9649	5785	-6.0761
		CH159	5794.9658	5795	-5.9103
		CH165	5824.9652	5825	-5.9742

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
DC 120V	20℃	CH36	5179.9635	5180	-7.0463
		CH38	5189.9667	5190	-6.4258
		CH40	5199.9679	5200	-6.1827
		CH42	5209.9677	5210	-6.2092
		CH46	5229.9692	5230	-5.8987
		CH48	5239.9673	5240	-6.2500
		CH52	5259.9704	5260	-5.6369
		CH54	5269.9657	5270	-6.5180
		CH58	5289.9682	5290	-6.0208
		CH60	5299.9662	5300	-6.3868
		CH62	5309.9675	5310	-6.1299
		CH64	5319.9695	5320	-5.7425
		CH100	5499.9651	5500	-6.3455
		CH102	5509.9662	5510	-6.1343
		CH106	5529.9669	5530	-5.9855
		CH110	5549.9654	5550	-6.2342
		CH116	5579.9643	5580	-6.3978
		CH118	5589.9636	5590	-6.5206
		CH120	5599.9651	5600	-6.2411
		CH122	5609.9659	5610	-6.0784
		CH134	5669.9635	5670	-6.4374
		CH140	5699.9631	5700	-6.4825
		CH149	5744.9656	5745	-5.9965
		CH151	5754.9614	5755	-6.7159
		CH155	5774.9644	5775	-6.1732
		CH157	5784.9624	5785	-6.4996
		CH159	5794.9624	5795	-6.4970
		CH165	5824.9627	5825	-6.4034

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
DC 120V	30℃	CH36	5179.9630	5180	-7.1429
		CH38	5189.9697	5190	-5.8478
		CH40	5199.9700	5200	-5.7692
		CH42	5209.9691	5210	-5.9405
		CH46	5229.9692	5230	-5.8891
		CH48	5239.9701	5240	-5.7061
		CH52	5259.9690	5260	-5.8935
		CH54	5269.9656	5270	-6.5275
		CH58	5289.9680	5290	-6.0586
		CH60	5299.9662	5300	-6.3868
		CH62	5309.9682	5310	-5.9981
		CH64	5319.9660	5320	-6.4004
		CH100	5499.9647	5500	-6.4182
		CH102	5509.9675	5510	-5.9074
		CH106	5529.9638	5530	-6.5552
		CH110	5549.9644	5550	-6.4144
		CH116	5579.9637	5580	-6.5054
		CH118	5589.9656	5590	-6.1628
		CH120	5599.9637	5600	-6.4821
		CH122	5609.9621	5610	-6.7558
		CH134	5669.9629	5670	-6.5520
		CH140	5699.9634	5700	-6.4211
		CH149	5744.9636	5745	-6.3446
		CH151	5754.9626	5755	-6.5074
		CH155	5774.9627	5775	-6.4589
		CH157	5784.9649	5785	-6.0674
		CH159	5794.9630	5795	-6.3848
		CH165	5824.9655	5825	-5.9313

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
DC 120V	40℃	CH36	5179.9645	5180	-6.8533
		CH38	5189.9681	5190	-6.1464
		CH40	5199.9675	5200	-6.2500
		CH42	5209.9674	5210	-6.2572
		CH46	5229.9684	5230	-6.0516
		CH48	5239.9687	5240	-5.9733
		CH52	5259.9694	5260	-5.8175
		CH54	5269.9658	5270	-6.4896
		CH58	5289.9691	5290	-5.8412
		CH60	5299.9664	5300	-6.3396
		CH62	5309.9675	5310	-6.1205
		CH64	5319.9650	5320	-6.5789
		CH100	5499.9694	5500	-5.5636
		CH102	5509.9661	5510	-6.1615
		CH106	5529.9656	5530	-6.2297
		CH110	5549.9639	5550	-6.5135
		CH116	5579.9661	5580	-6.0753
		CH118	5589.9661	5590	-6.0733
		CH120	5599.9666	5600	-5.9732
		CH122	5609.9656	5610	-6.1408
		CH134	5669.9663	5670	-5.9524
		CH140	5699.9637	5700	-6.3772
		CH149	5744.9620	5745	-6.6144
		CH151	5754.9646	5755	-6.1512
		CH155	5774.9630	5775	-6.4156
		CH157	5784.9635	5785	-6.3094
		CH159	5794.9615	5795	-6.6523
		CH165	5824.9646	5825	-6.0858

10. ANTENNA REQUIREMENT

10.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2. Antenna Connected Construction

The antennas used for this product are PIFA Antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is U-NII Band Peak Gain: 2.38dBi

11. DEVIATION TO TEST SPECIFICATIONS

[NONE]

THE END