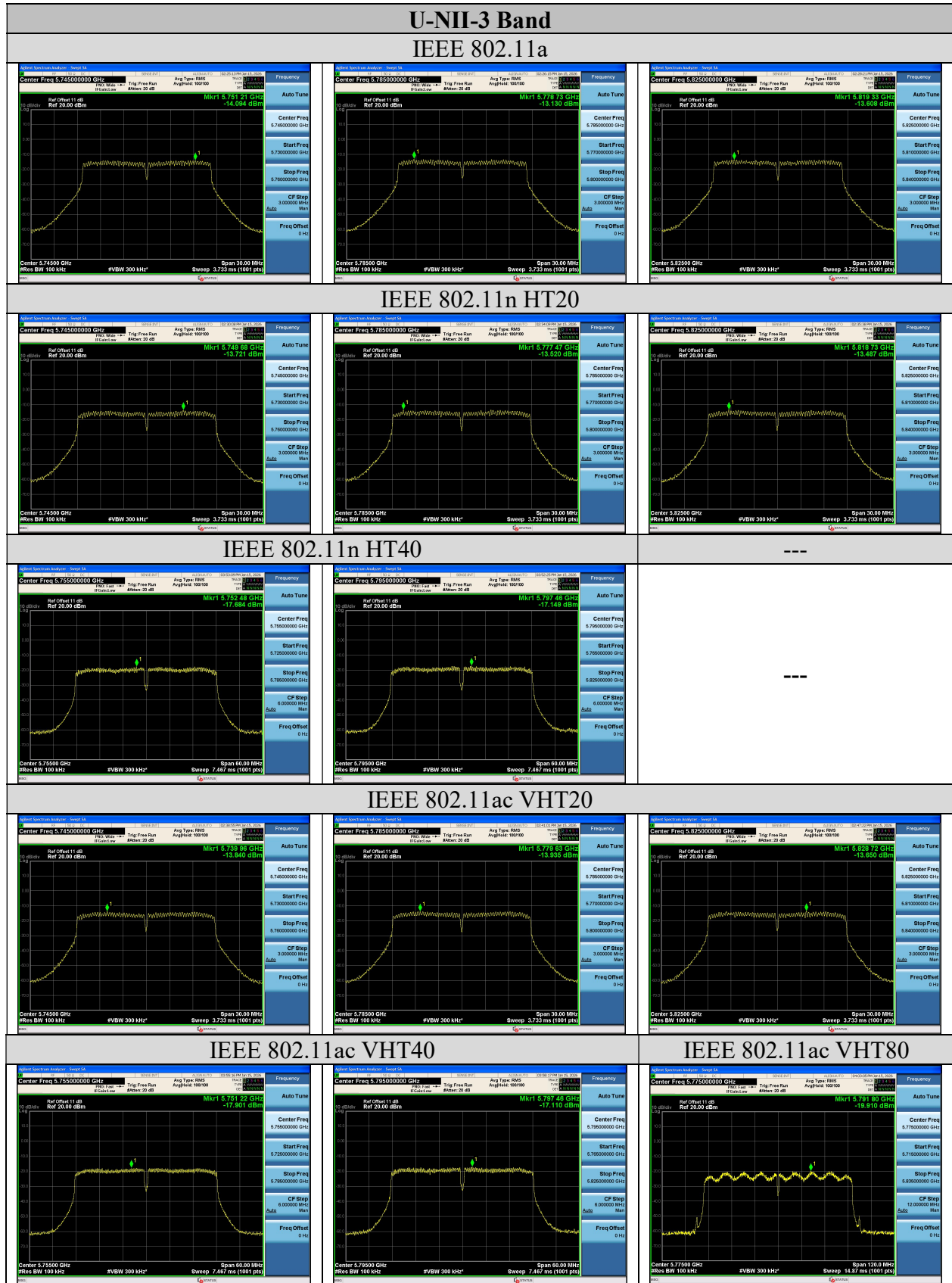




9. FREQUENCY STABILITY MEASUREMENT

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: Desktop 3D Printer		
M/N: Phrozen Sonic LS+ 3D Printer		
Test date: 2026-01-14	Pressure: 102.5±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Carl	Test site: RF site	Temperature: 22.4±0.6℃

Frequency Stability vs. Voltage:

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
AC 230V	25℃	CH36	5179.9925	5180	-1.45
		CH38	5189.9935	5190	-1.25
		CH40	5199.9945	5200	-1.06
		CH42	5209.9955	5210	-0.86
		CH46	5229.9975	5230	-0.48
		CH48	5239.9980	5240	-0.38
		CH149	5744.9925	5745	-1.31
		CH151	5754.9910	5755	-1.56
		CH155	5774.9890	5775	-1.90
		CH157	5784.9895	5785	-1.82
		CH159	5794.9890	5795	-1.90
		CH165	5824.9890	5825	-1.89

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
AC 230V	0℃	CH36	5179.9940	5180	-1.16
		CH38	5189.9945	5190	-1.06
		CH40	5199.9950	5200	-0.96
		CH42	5209.9950	5210	-0.96
		CH46	5229.9960	5230	-0.76
		CH48	5239.9965	5240	-0.67
		CH149	5744.9940	5745	-1.04
		CH151	5754.9905	5755	-1.65
		CH155	5774.9895	5775	-1.82
		CH157	5784.9910	5785	-1.56
		CH159	5794.9880	5795	-2.07
		CH165	5824.9885	5825	-1.97

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
AC 230V	70℃	CH36	5179.9925	5180	-1.45
		CH38	5189.9935	5190	-1.25
		CH40	5199.9945	5200	-1.06
		CH42	5209.9955	5210	-0.86
		CH46	5229.9975	5230	-0.48
		CH48	5239.9980	5240	-0.38
		CH149	5744.9940	5745	-1.04
		CH151	5754.9905	5755	-1.65
		CH155	5774.9890	5775	-1.90
		CH157	5784.9895	5785	-1.82
		CH159	5794.9890	5795	-1.90
		CH165	5824.9890	5825	-1.89

Frequency Stability vs. Temperature:

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
AC 265V	25°C	CH36	5179.9930	5180	-1.35
		CH38	5189.9925	5190	-1.45
		CH40	5199.9930	5200	-1.35
		CH42	5209.9960	5210	-0.77
		CH46	5229.9980	5230	-0.38
		CH48	5239.9990	5240	-0.19
		CH149	5744.9935	5745	-1.13
		CH151	5754.9920	5755	-1.39
		CH155	5774.9875	5775	-2.16
		CH157	5784.9880	5785	-2.07
		CH159	5794.9895	5795	-1.81
		CH165	5824.9885	5825	-1.97

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
AC 265V	0°C	CH36	5179.9910	5180	-1.74
		CH38	5189.9940	5190	-1.16
		CH40	5199.9950	5200	-0.96
		CH42	5209.9960	5210	-0.77
		CH46	5229.9985	5230	-0.29
		CH48	5239.9970	5240	-0.57
		CH149	5744.9940	5745	-1.04
		CH151	5754.9895	5755	-1.82
		CH155	5774.9890	5775	-1.90
		CH157	5784.9910	5785	-1.56
		CH159	5794.9885	5795	-1.98
		CH165	5824.9885	5825	-1.97

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
AC 265V	70℃	CH36	5179.9920	5180	-1.54
		CH38	5189.9920	5190	-1.54
		CH40	5199.9930	5200	-1.35
		CH42	5209.9955	5210	-0.86
		CH46	5229.9985	5230	-0.29
		CH48	5239.9970	5240	-0.57
		CH149	5744.9920	5745	-1.39
		CH151	5754.9910	5755	-1.56
		CH155	5774.9880	5775	-2.08
		CH157	5784.9890	5785	-1.90
		CH159	5794.9880	5795	-2.07
		CH165	5824.9905	5825	-1.63

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
AC 196V	25℃	CH36	5179.9930	5180	-1.35
		CH38	5189.9950	5190	-0.96
		CH40	5199.9950	5200	-0.96
		CH42	5209.9945	5210	-1.06
		CH46	5229.9990	5230	-0.19
		CH48	5239.9990	5240	-0.19
		CH149	5744.9910	5745	-1.57
		CH151	5754.9895	5755	-1.82
		CH155	5774.9895	5775	-1.82
		CH157	5784.9900	5785	-1.73
		CH159	5794.9900	5795	-1.73
		CH165	5824.9885	5825	-1.97

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
AC 196V	0℃	CH36	5179.9910	5180	-1.74
		CH38	5189.9920	5190	-1.54
		CH40	5199.9945	5200	-1.06
		CH42	5209.9965	5210	-0.67
		CH46	5229.9985	5230	-0.29
		CH48	5239.9995	5240	-0.10
		CH149	5744.9915	5745	-1.48
		CH151	5754.9925	5755	-1.30
		CH155	5774.9895	5775	-1.82
		CH157	5784.9890	5785	-1.90
		CH159	5794.9900	5795	-1.73
		CH165	5824.9895	5825	-1.80

Test Voltage	Temperature	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)
AC 196V	70℃	CH36	5179.9920	5180	-1.54
		CH38	5189.9925	5190	-1.45
		CH40	5199.9935	5200	-1.25
		CH42	5209.9945	5210	-1.06
		CH46	5229.9975	5230	-0.48
		CH48	5239.9995	5240	-0.10
		CH149	5744.9920	5745	-1.39
		CH151	5754.9920	5755	-1.39
		CH155	5774.9875	5775	-2.16
		CH157	5784.9900	5785	-1.73
		CH159	5794.9895	5795	-1.81
		CH165	5824.9890	5825	-1.89

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

Appendix A. Photograph of Test

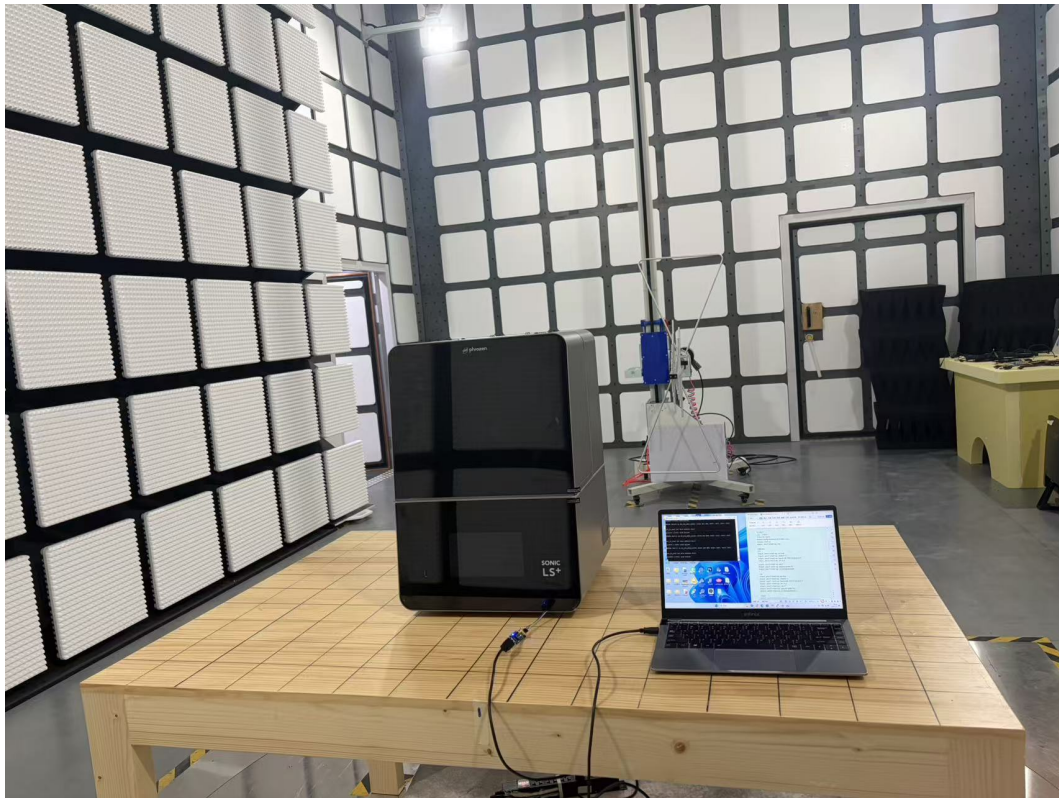
A.1 EUT is Connected and set



A.2 Photos of Power Line Conducted Emission Test



A.3 Photos of Radiated Emission Test



(Above 1000MHz)



..... **THE END**