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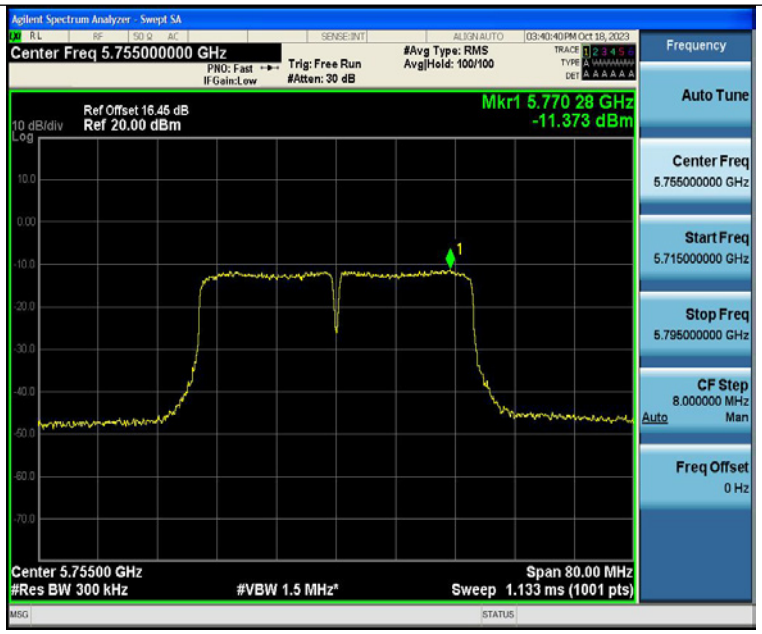

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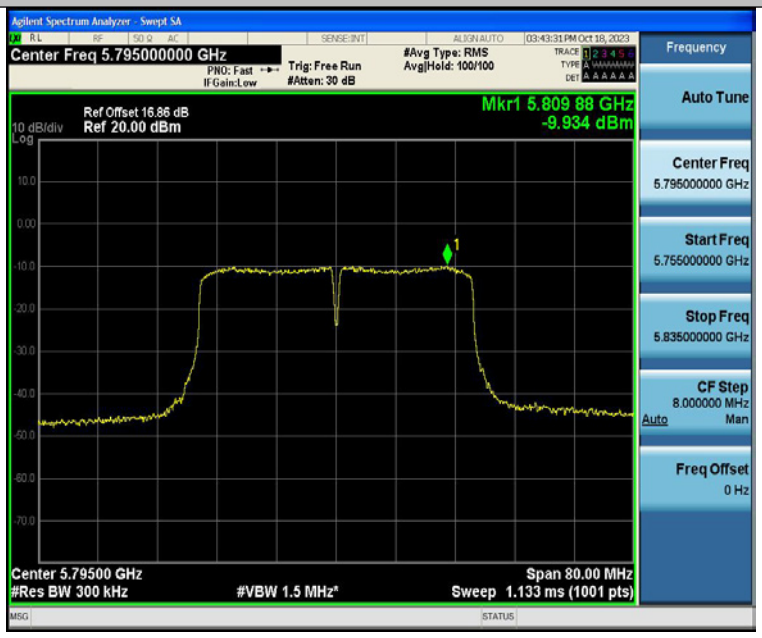

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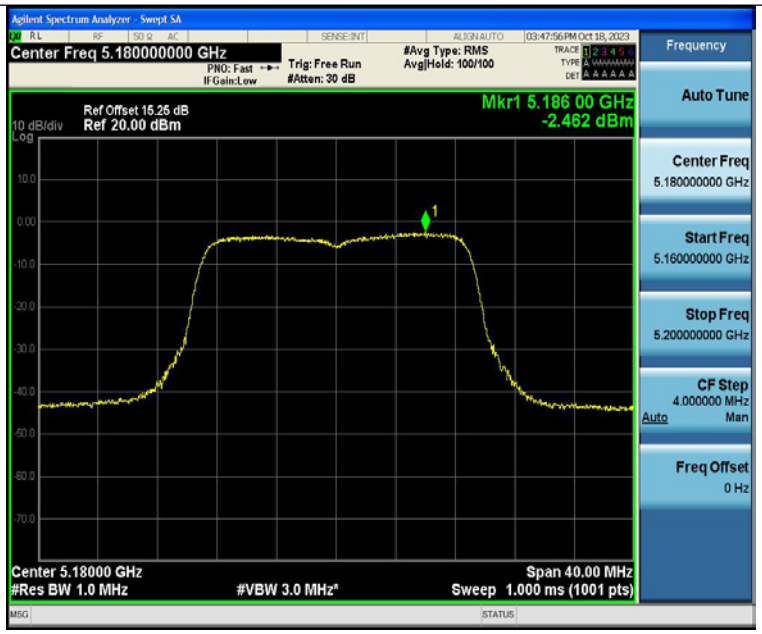

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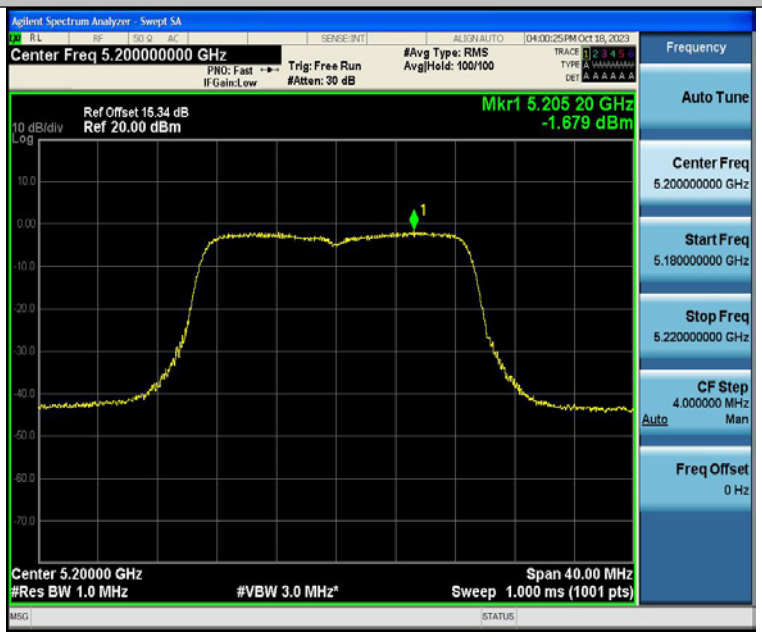

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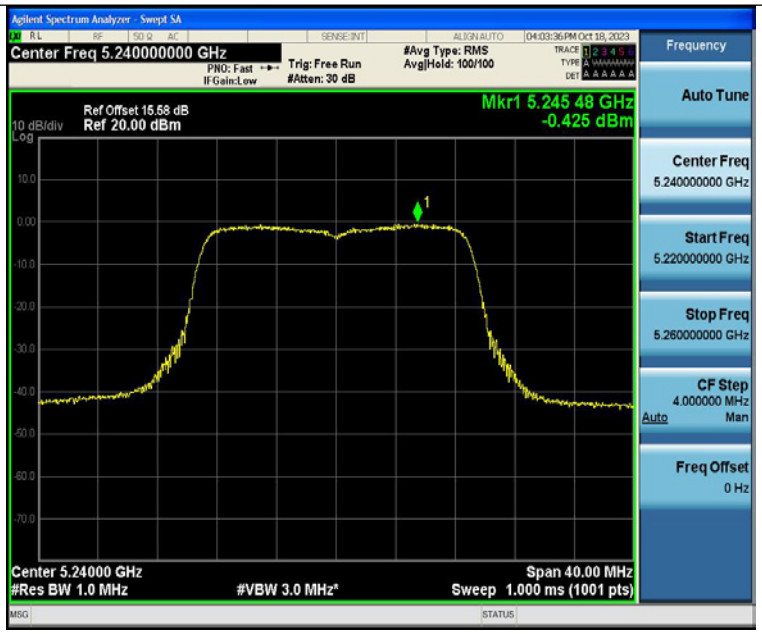

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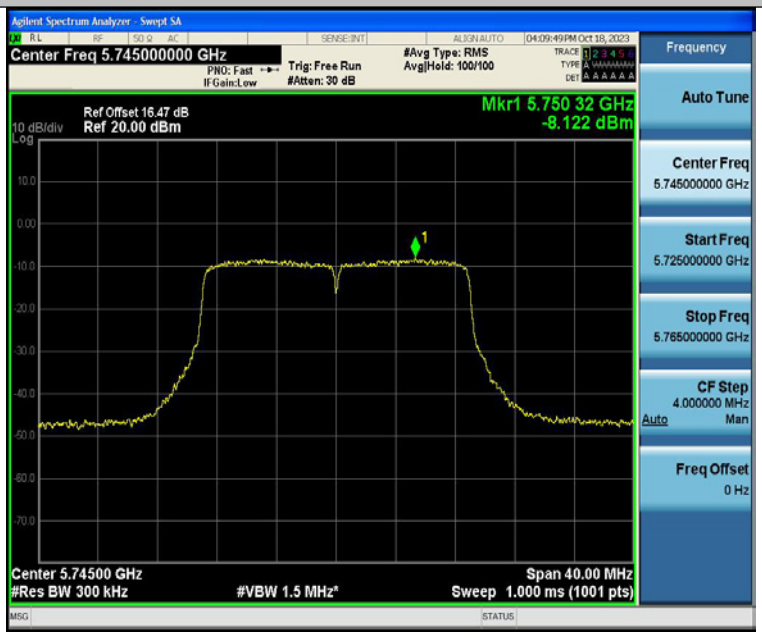

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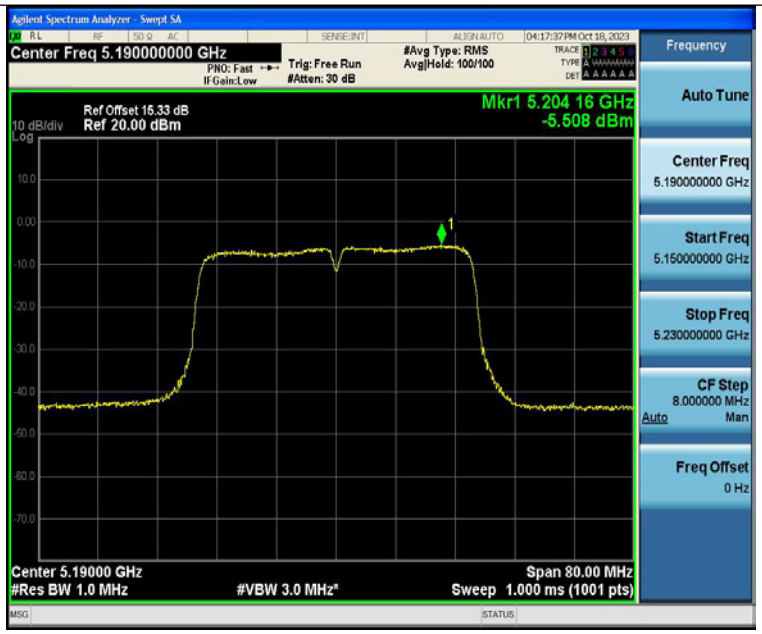
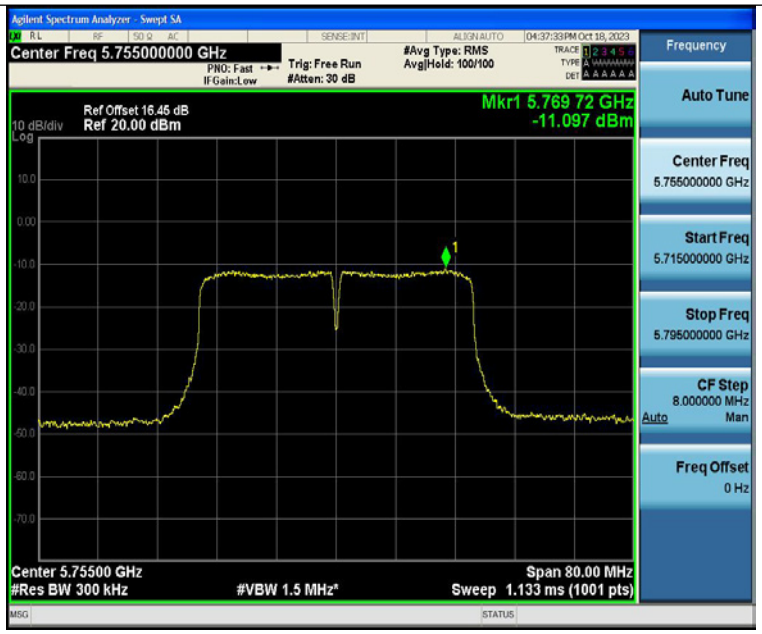
11AC20SISO-Ant1-5785-PASS

11AC20SISO-Ant1-5825-PASS



11AC40SISO-Ant1-5190-PASS

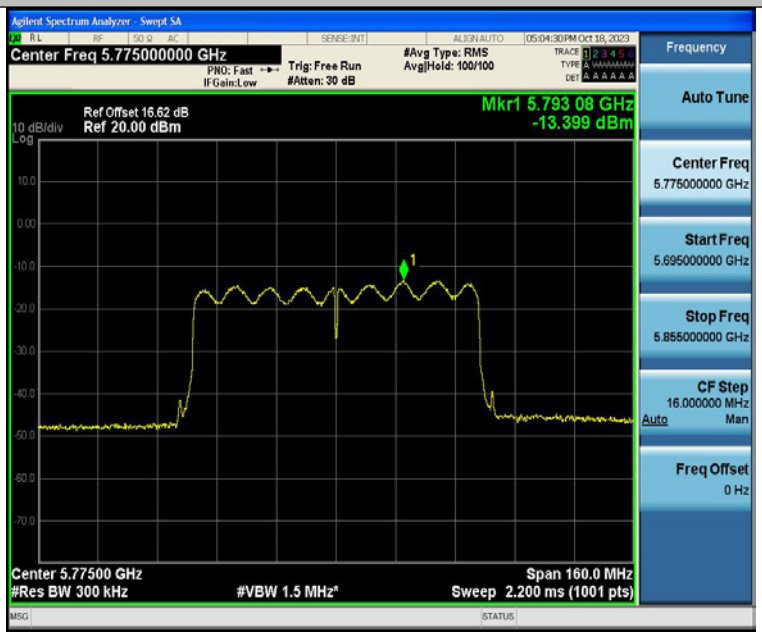
11AC40SISO-Ant1-5230-PASS



11AC40SISO-Ant1-5755-PASS

11AC40SISO-Ant1-5795-PASS

11AC80SISO-Ant1-5210-PASS



11AC80SISO-Ant1-5775-PASS

9.4 Antenna Requirement

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.

9.5 Result

The EUT'S antenna, permanent attached antenna,is PIFA Antenna. The antenna's gain is 3.22 dBi and meets the requirement.

10 Frequency Stability

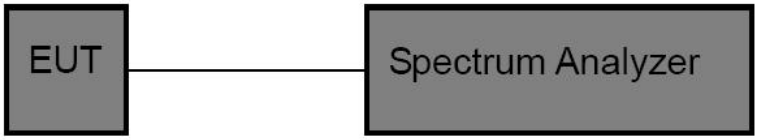
Test Requirement : FCC Part15 E Section 15.407 (g)

Test 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.

10.1 Test Procedure

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.

10.2 Test Setup



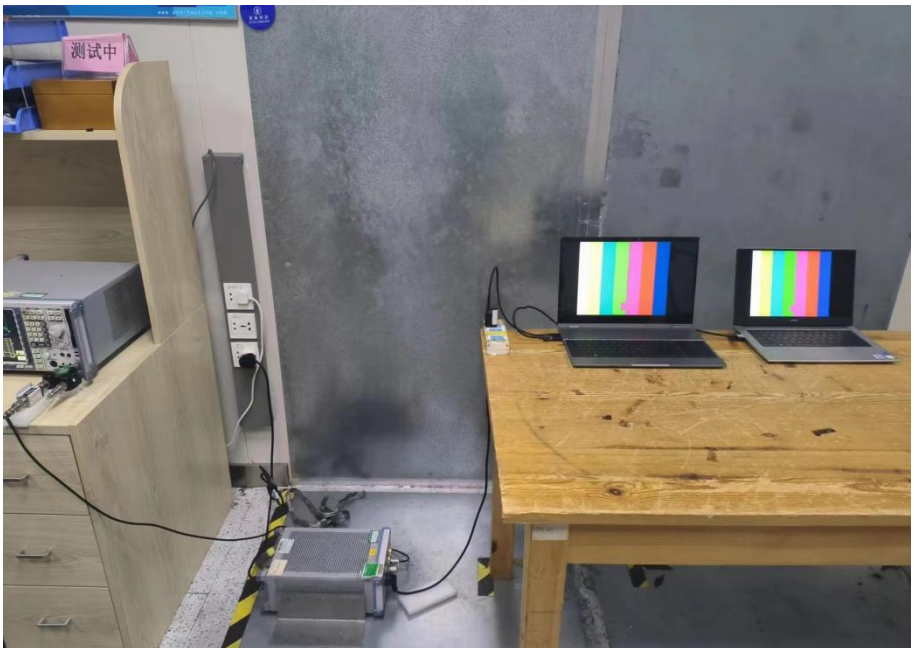
10.3 Test Result

Test Mode	Antenna	Frequency[MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-7000.00	-1.351351	20	PASS
11A	Ant1	5180	LV	NT	-7000.00	-1.351351	20	PASS
11A	Ant1	5180	HV	NT	-7000.00	-1.351351	20	PASS
11N20SISO	Ant1	5180	NV	NT	-6000.00	-1.158301	20	PASS
11N20SISO	Ant1	5180	LV	NT	-7000.00	-1.351351	20	PASS
11N20SISO	Ant1	5180	HV	NT	-7000.00	-1.351351	20	PASS
11AC20SISO	Ant1	5180	NV	NT	-7000.00	-1.351351	20	PASS
11AC20SISO	Ant1	5180	LV	NT	-7000.00	-1.351351	20	PASS
11AC20SISO	Ant1	5180	HV	NT	-7000.00	-1.351351	20	PASS
11A	Ant1	5200	NV	NT	-7000.00	-1.346154	20	PASS
11A	Ant1	5200	LV	NT	-6000.00	-1.153846	20	PASS
11A	Ant1	5200	HV	NT	-6000.00	-1.153846	20	PASS
11N20SISO	Ant1	5200	NV	NT	-6000.00	-1.153846	20	PASS
11N20SISO	Ant1	5200	LV	NT	-6000.00	-1.153846	20	PASS
11N20SISO	Ant1	5200	HV	NT	-6000.00	-1.153846	20	PASS
11AC20SISO	Ant1	5200	NV	NT	-6000.00	-1.153846	20	PASS
11AC20SISO	Ant1	5200	LV	NT	-6000.00	-1.153846	20	PASS
11AC20SISO	Ant1	5200	HV	NT	-6000.00	-1.153846	20	PASS
11A	Ant1	5240	NV	NT	-7000.00	-1.335878	20	PASS
11A	Ant1	5240	LV	NT	-7000.00	-1.335878	20	PASS
11A	Ant1	5240	HV	NT	-7000.00	-1.335878	20	PASS

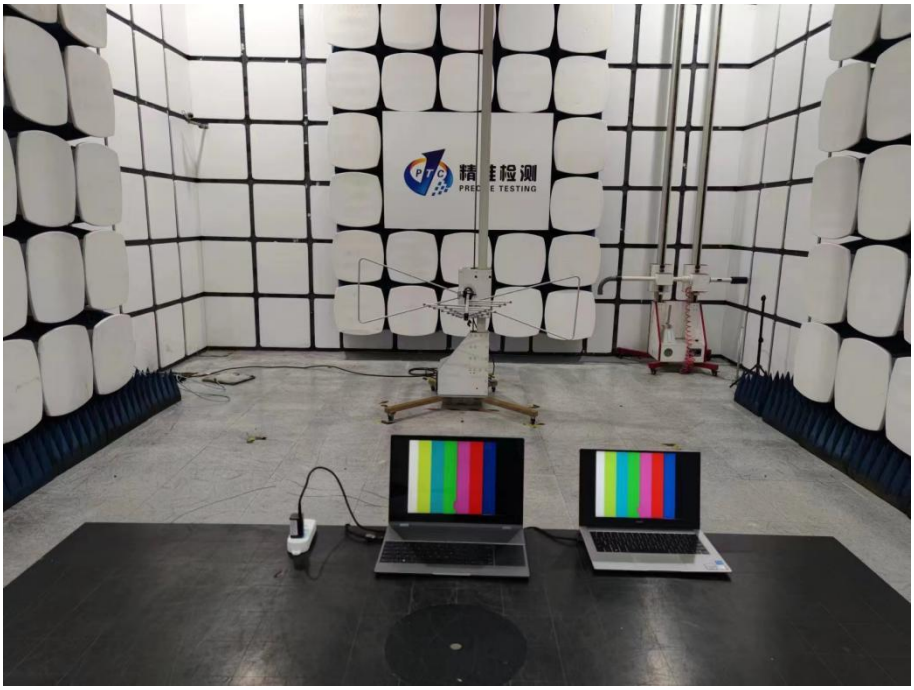
11N20SISO	Ant1	5240	NV	NT	-7000.00	-1.335878	20	PASS
11N20SISO	Ant1	5240	LV	NT	-7000.00	-1.335878	20	PASS
11N20SISO	Ant1	5240	HV	NT	-7000.00	-1.335878	20	PASS
11AC20SISO	Ant1	5240	NV	NT	-7000.00	-1.335878	20	PASS
11AC20SISO	Ant1	5240	LV	NT	-7000.00	-1.335878	20	PASS
11AC20SISO	Ant1	5240	HV	NT	-7000.00	-1.335878	20	PASS
11A	Ant1	5745	NV	NT	-8000.00	-1.392515	20	PASS
11A	Ant1	5745	LV	NT	-8000.00	-1.392515	20	PASS
11A	Ant1	5745	HV	NT	-8000.00	-1.392515	20	PASS
11N20SISO	Ant1	5745	NV	NT	-8000.00	-1.392515	20	PASS
11N20SISO	Ant1	5745	LV	NT	-8000.00	-1.392515	20	PASS
11N20SISO	Ant1	5745	HV	NT	-8000.00	-1.392515	20	PASS
11AC20SISO	Ant1	5745	NV	NT	-8000.00	-1.392515	20	PASS
11AC20SISO	Ant1	5745	LV	NT	-8000.00	-1.392515	20	PASS
11AC20SISO	Ant1	5745	HV	NT	-7000.00	-1.218451	20	PASS

11 Test Setup

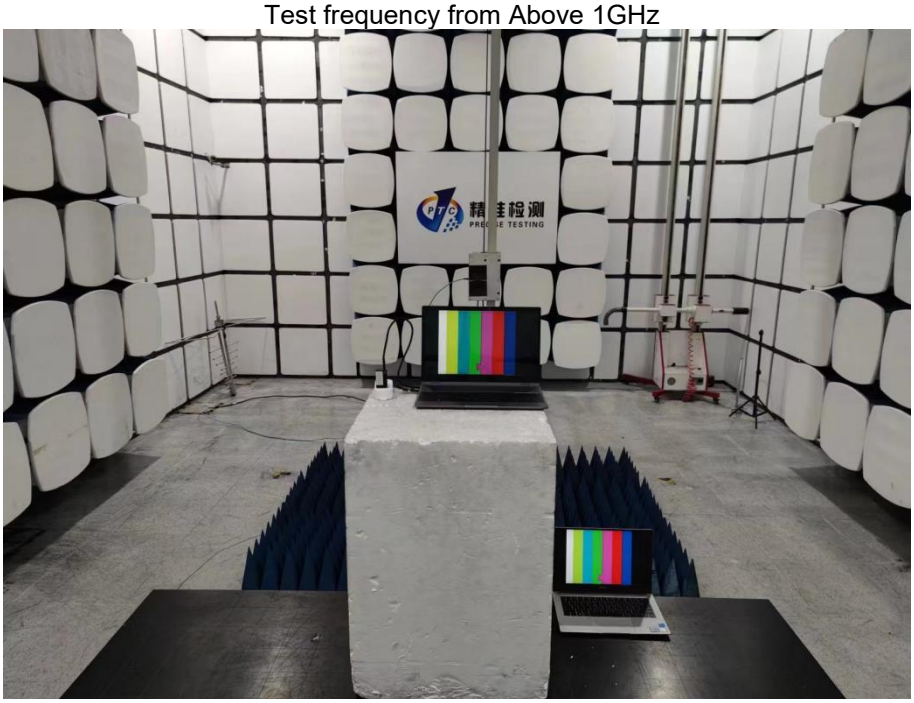
Conducted Emissions



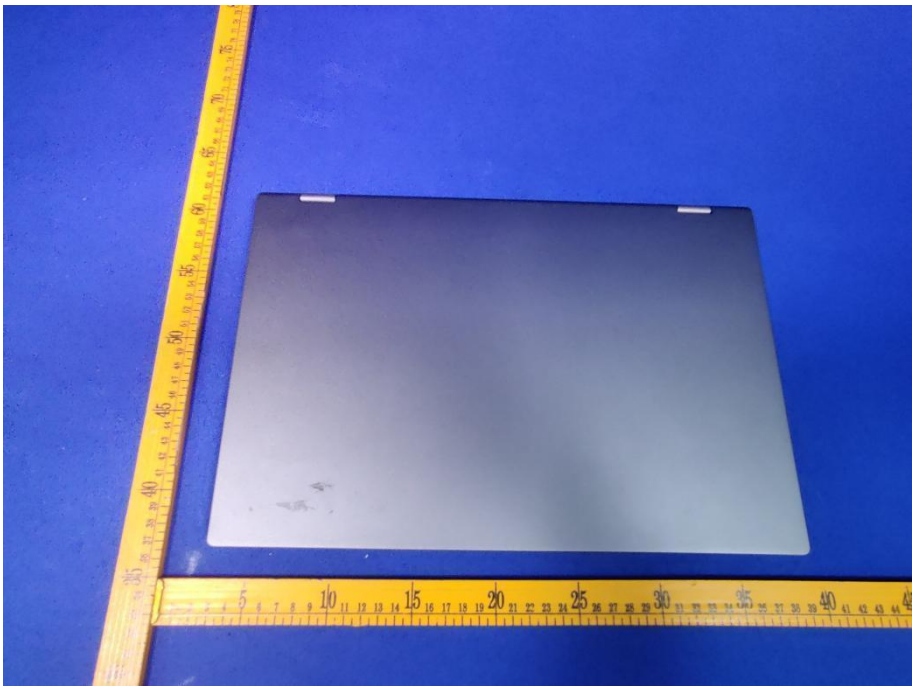
Radiated Spurious Emissions
From 30MHz-1000MHz

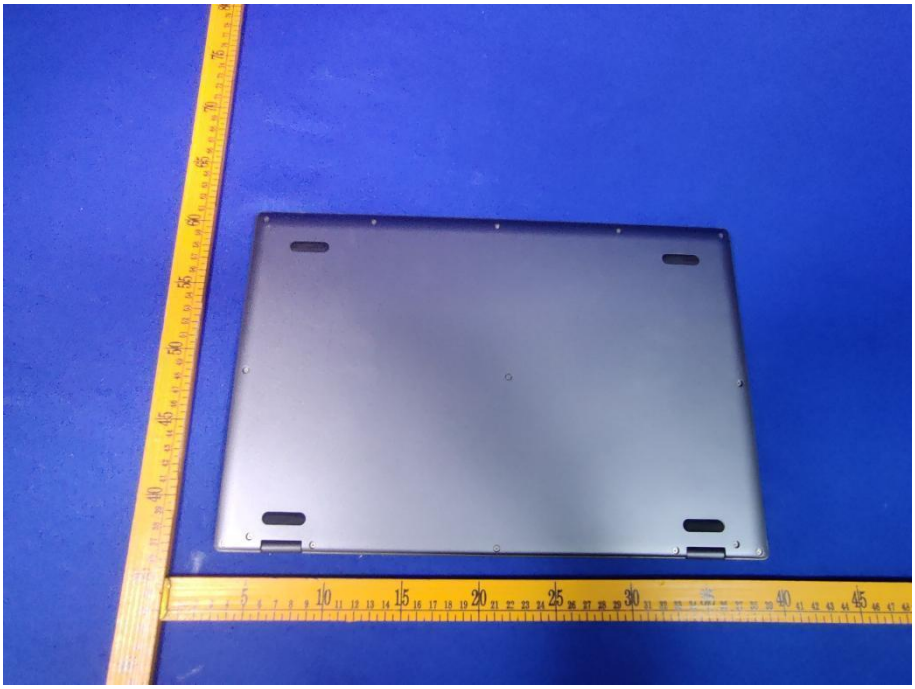


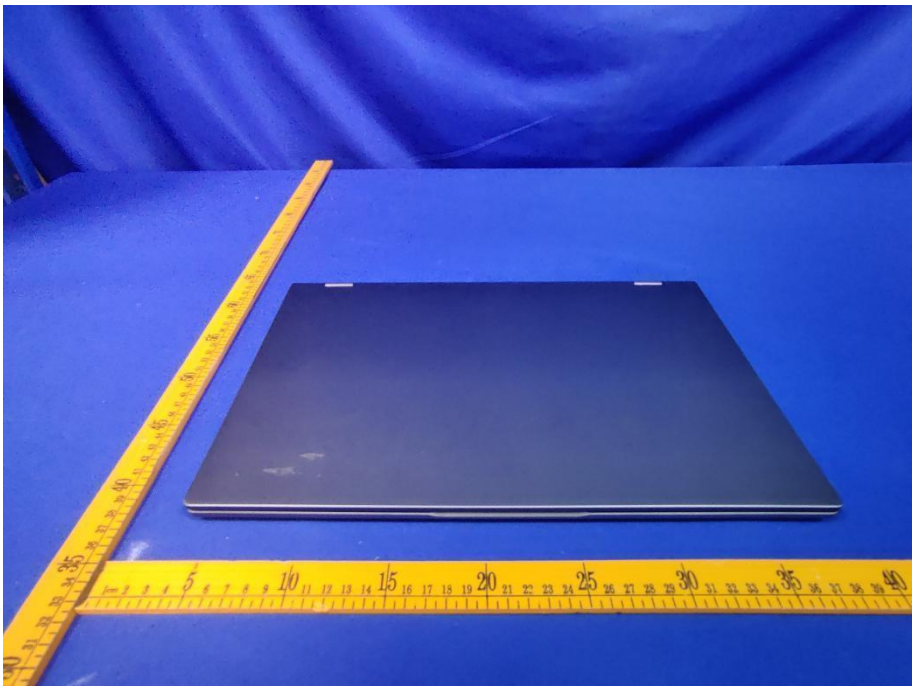
Test frequency from Above 1GHz

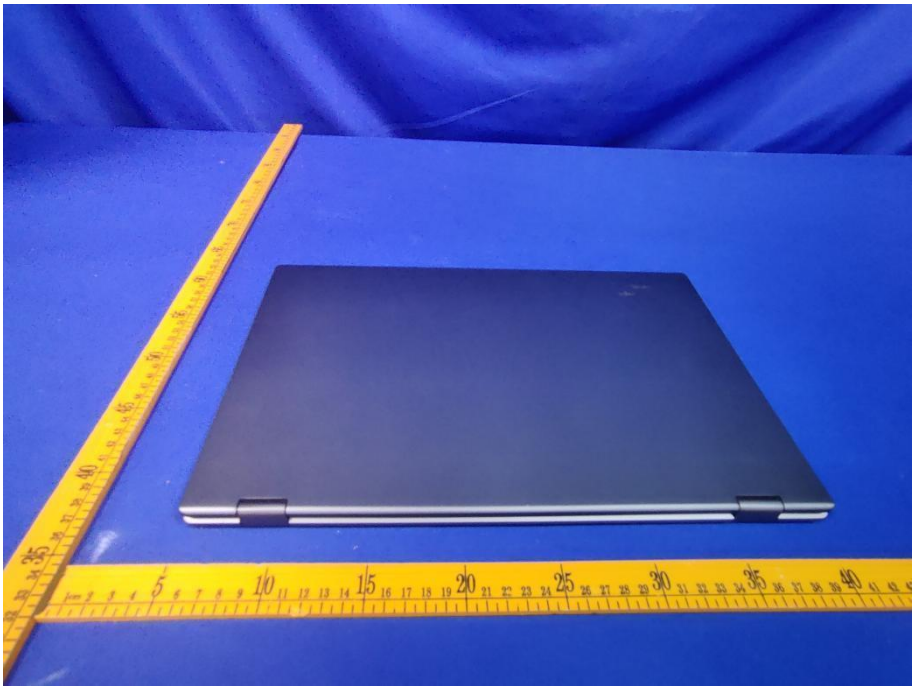


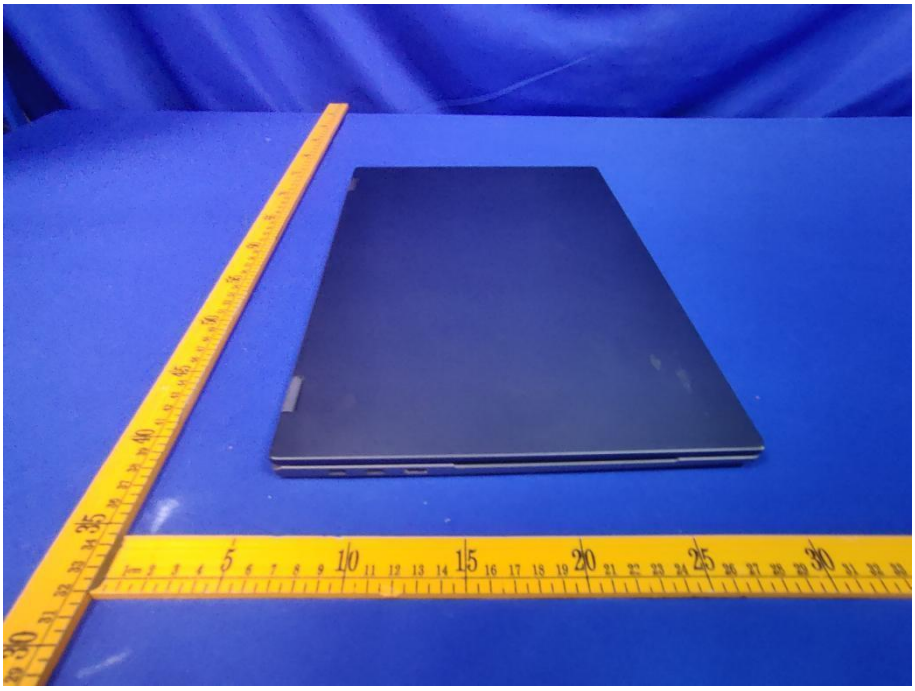
12 EUT PHOTOS

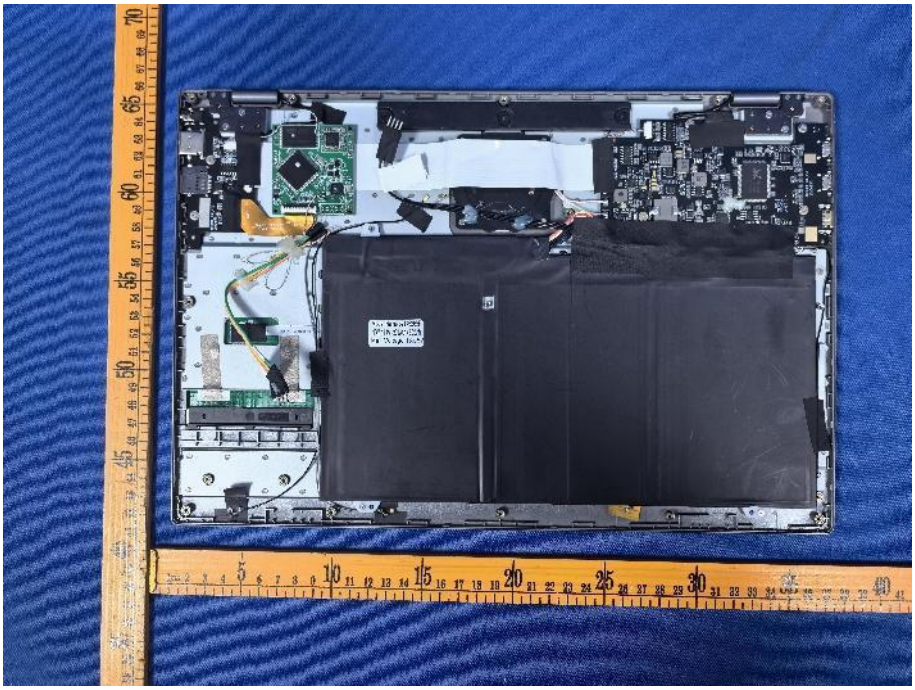


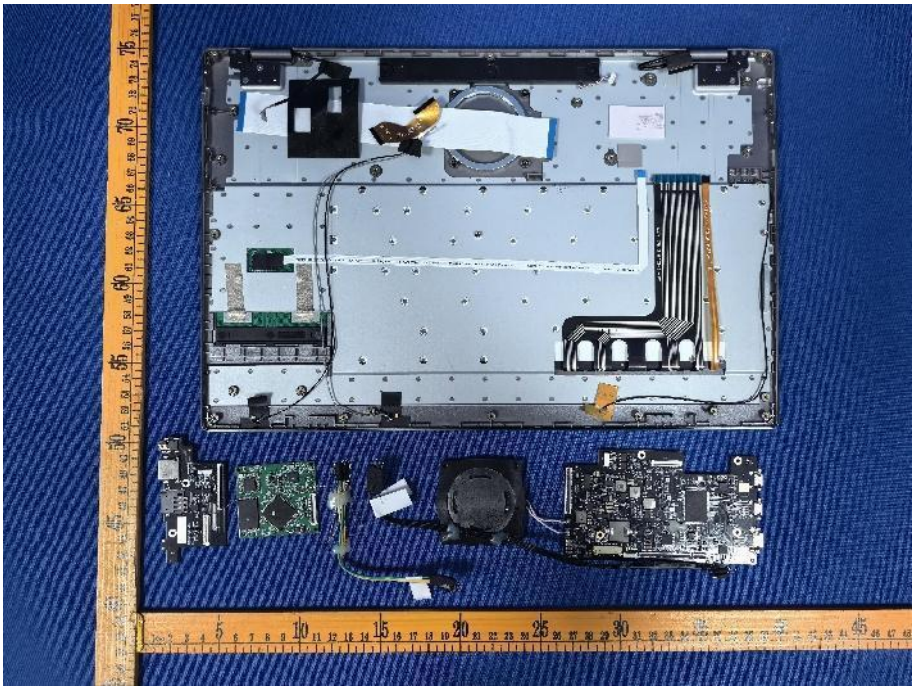


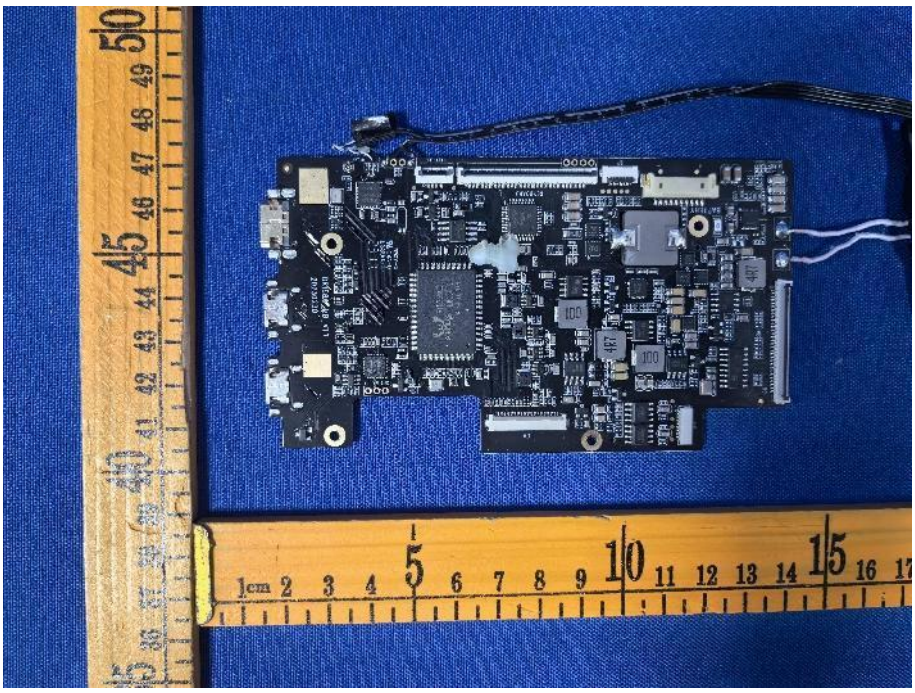


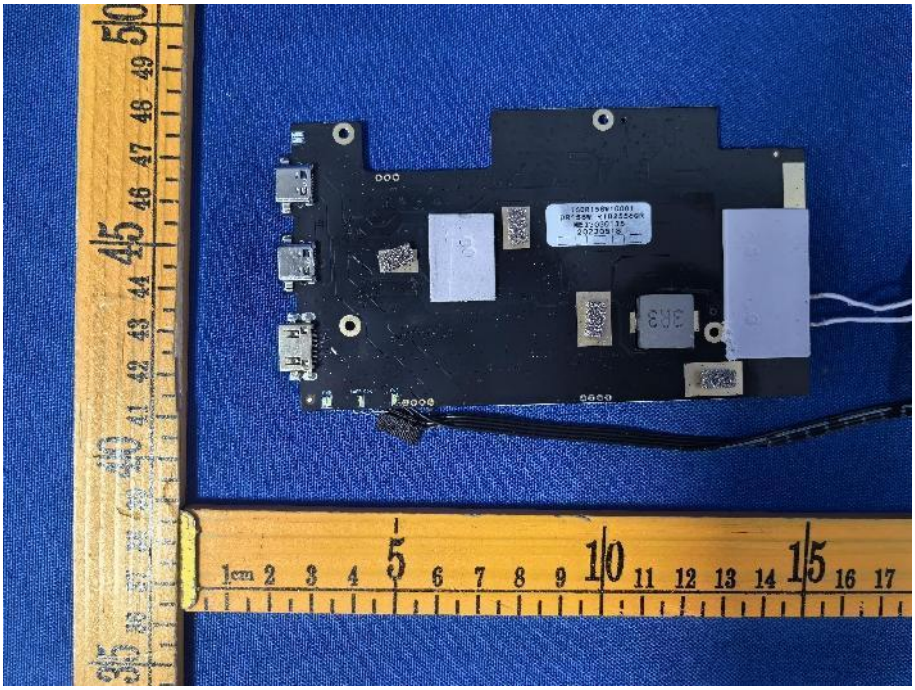


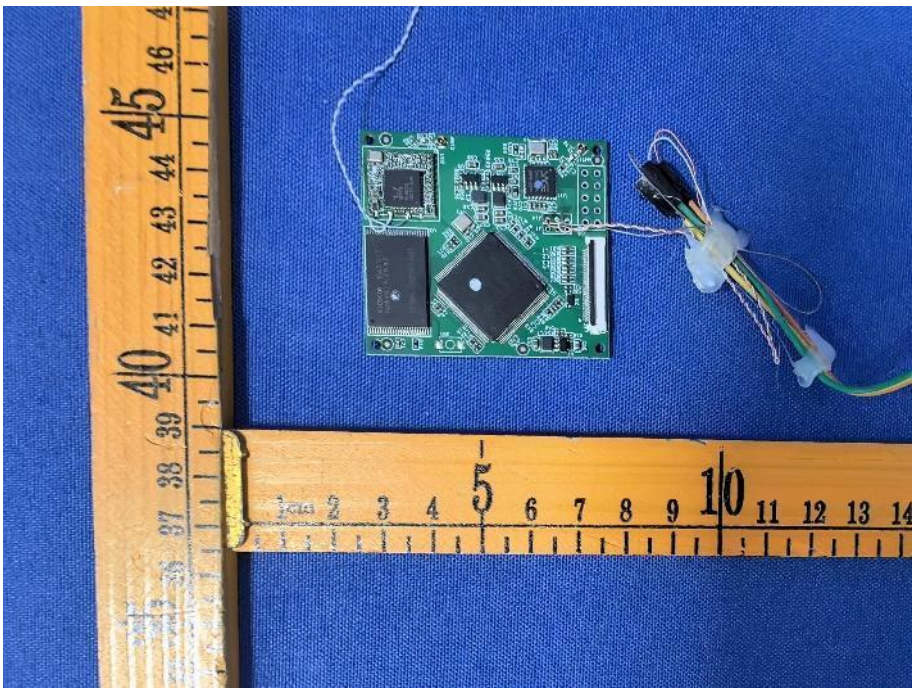


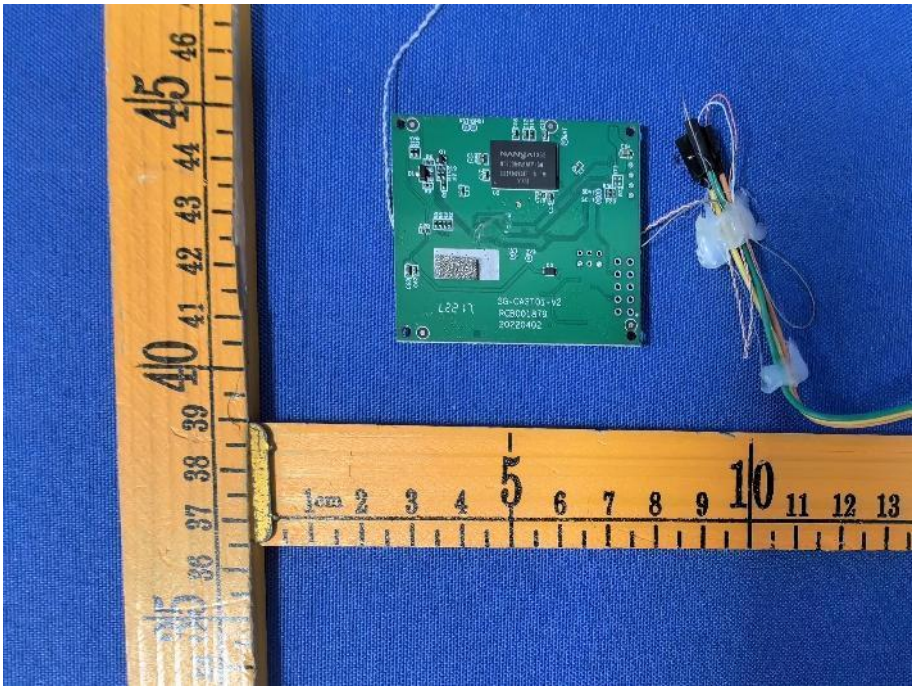


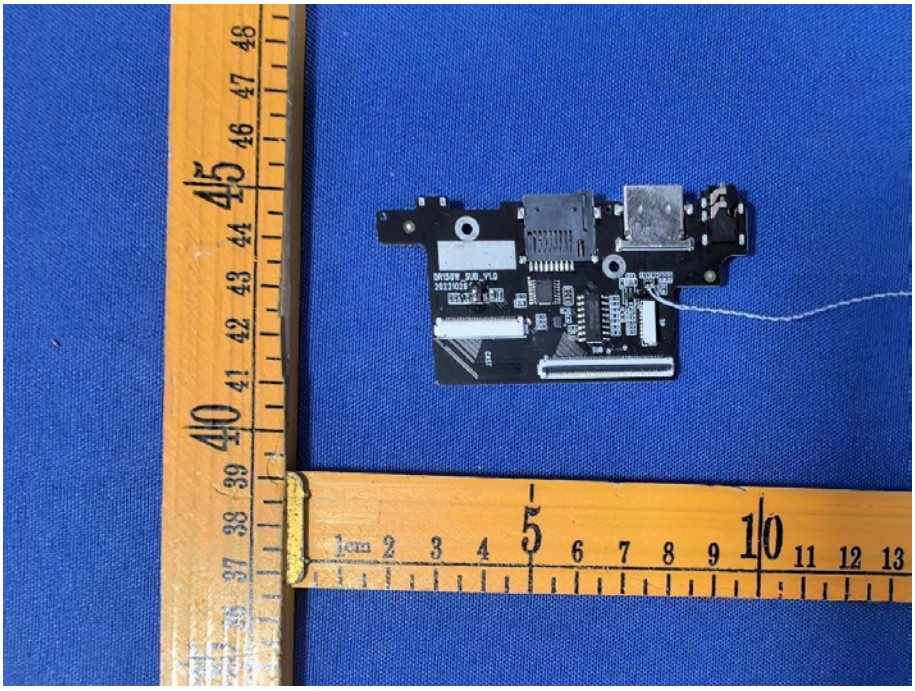


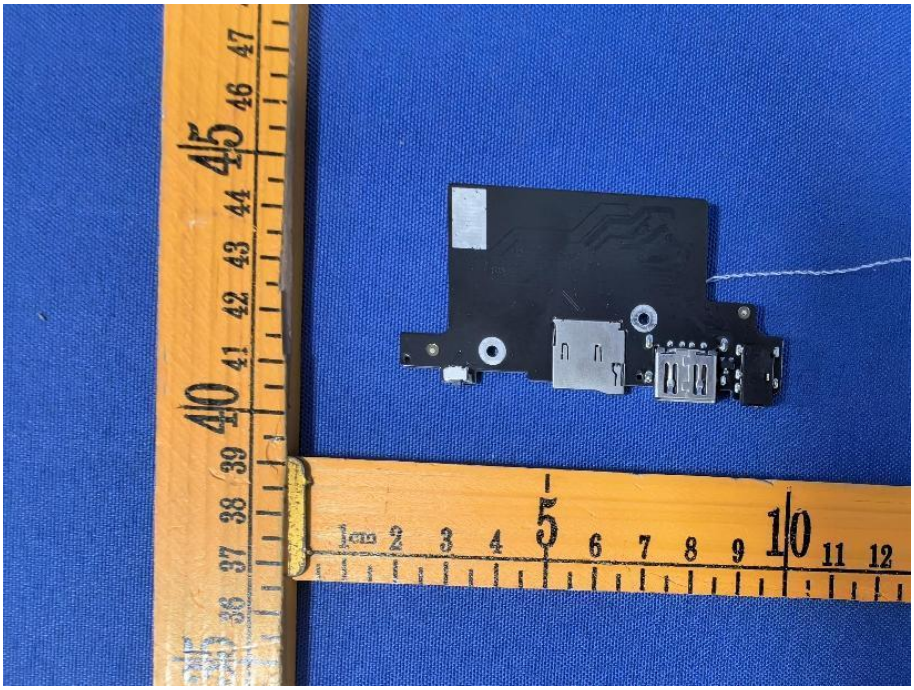


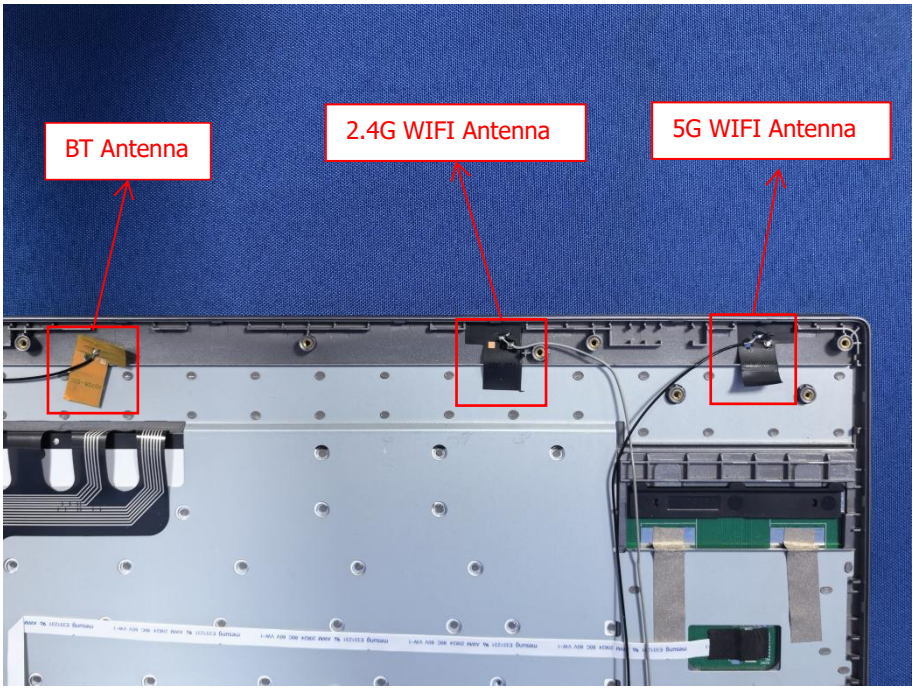











BT Antenna
2.4G WIFI Antenna
5G WIFI Antenna

********THE END REPORT********