EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.000	55.94	0.22	56.16	74	-17.84	peak
4924.000	44.71	0.22	44.93	54	-9.07	AVG
7386.000	51.64	2.64	54.28	74	-19.72	peak
7386.000	41.28	2.64	43.92	54	-10.08	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.000	58.61	0.22	58.83	74	-15.17	peak
4924.000	44.84	0.22	45.06	54	-8.94	AVG
7386.000	53.75	2.64	56.39	74	-17.61	peak
7386.000	41.08	2.64	43.72	54	-10.28	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

12.2. TEST SET-UP

same as 11.2

Note:

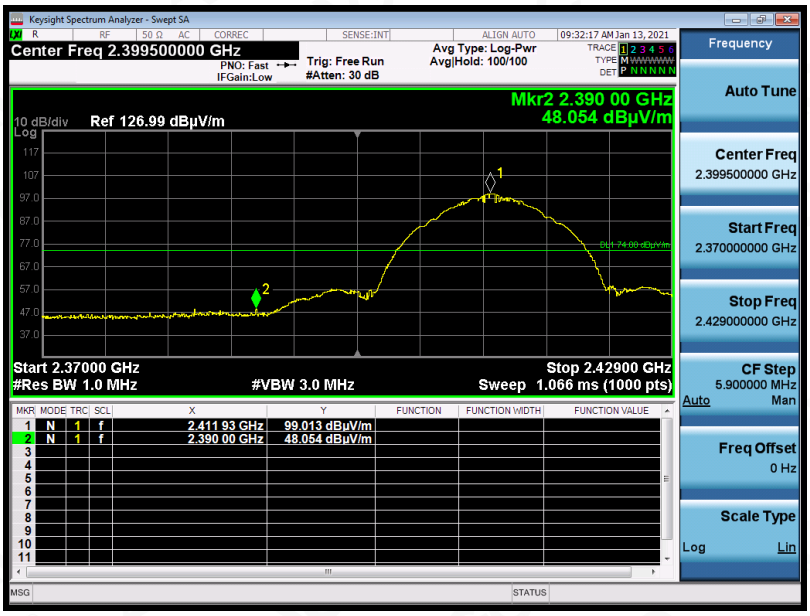
1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level

2. The factor had been edited in the “Input Correction” of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μV) to represent the Amplitude. Use the F dB(μV /m) to represent the Field Strength. So A=F.

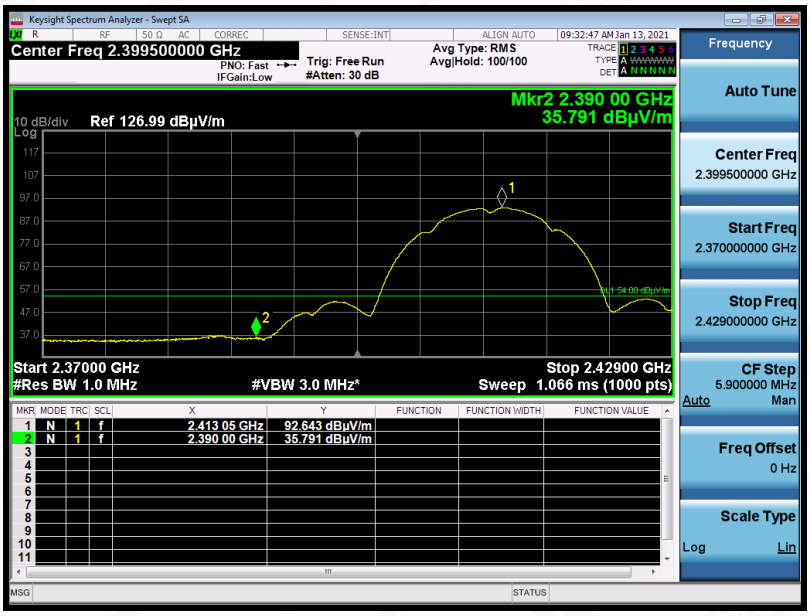
12.3. TEST RESULT

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

PK



AV

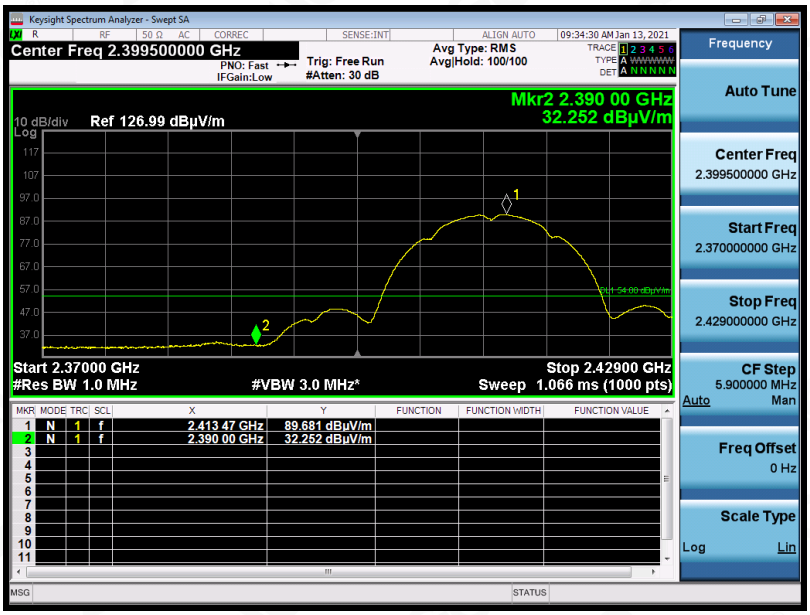


RESULT: PASS

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

PK

AV

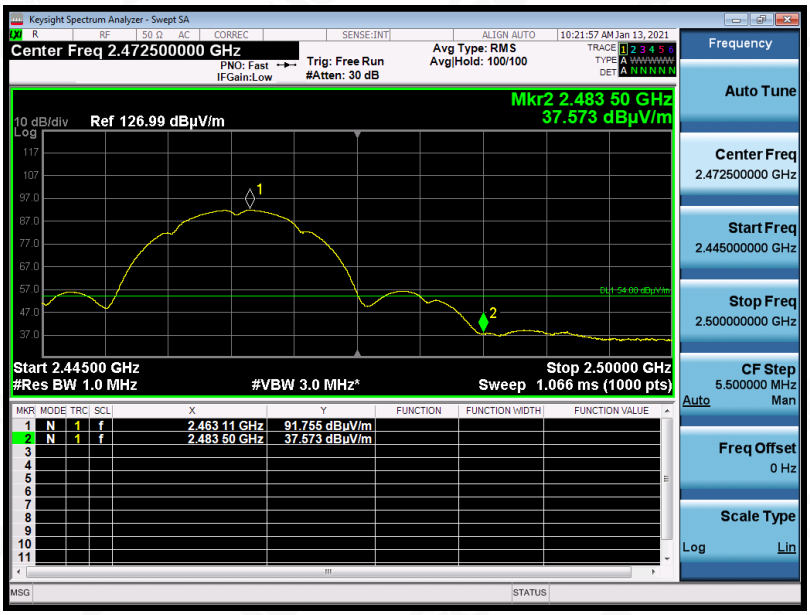


RESULT: PASS

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

PK

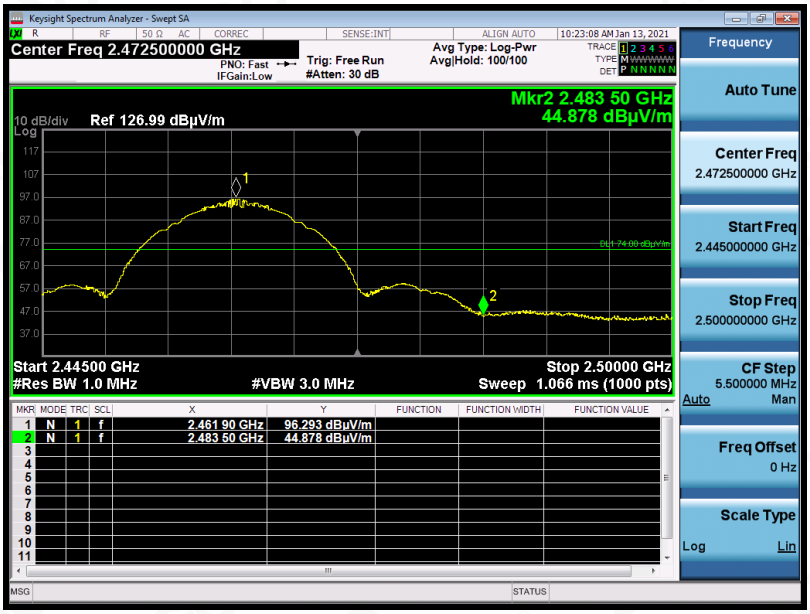
AV



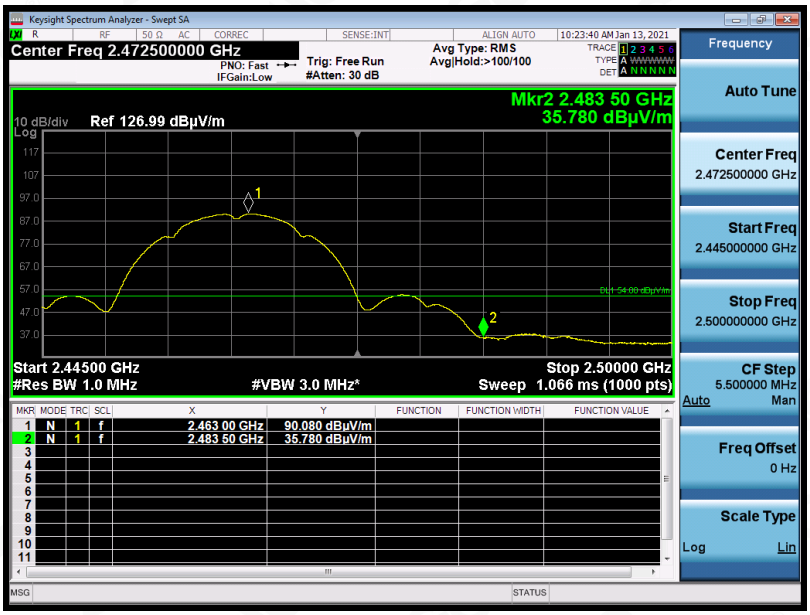
RESULT: PASS

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical

PK



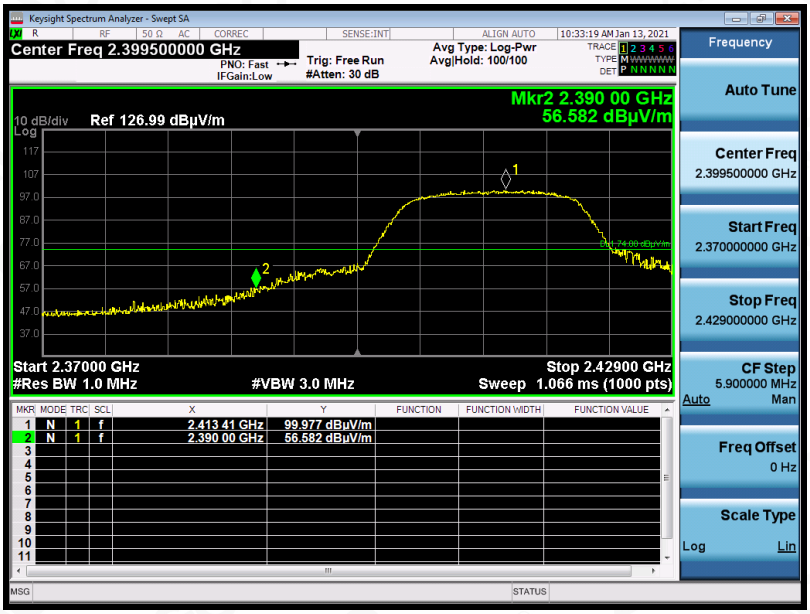
AV



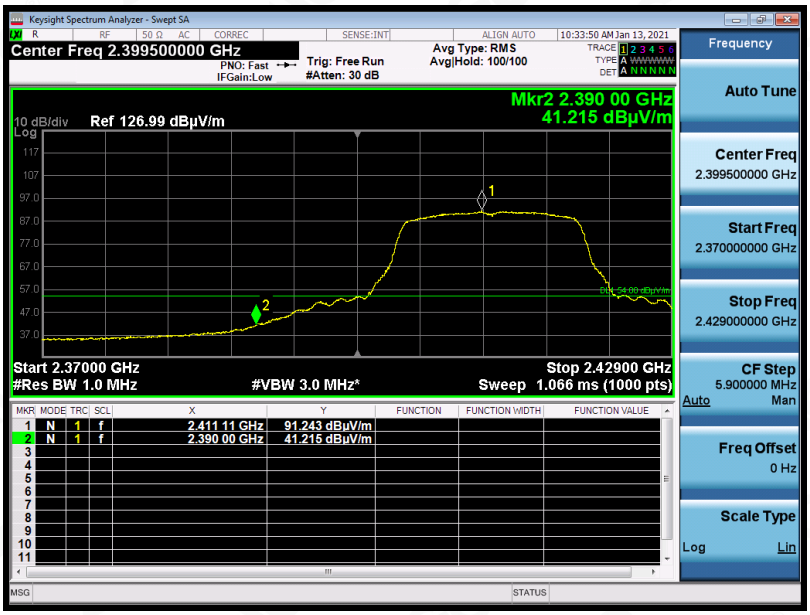
RESULT: PASS

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal

PK



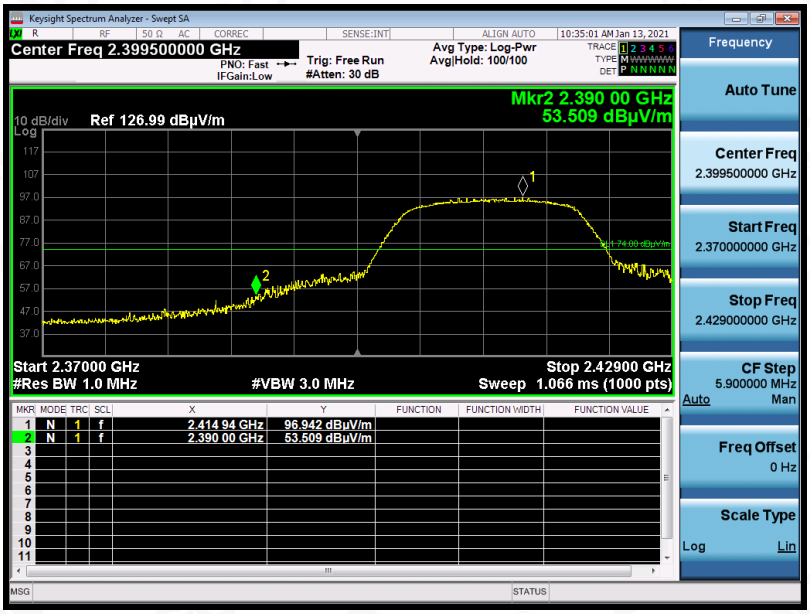
AV



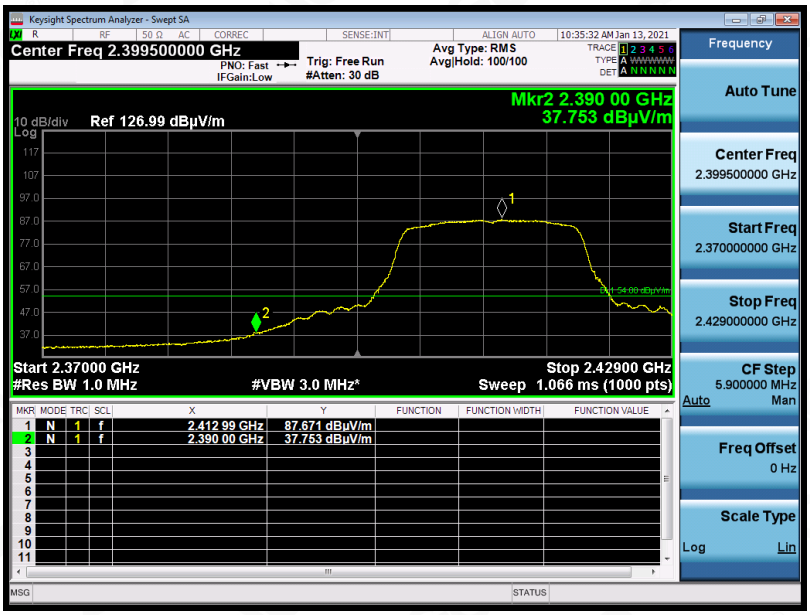
RESULT: PASS

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Vertical

PK



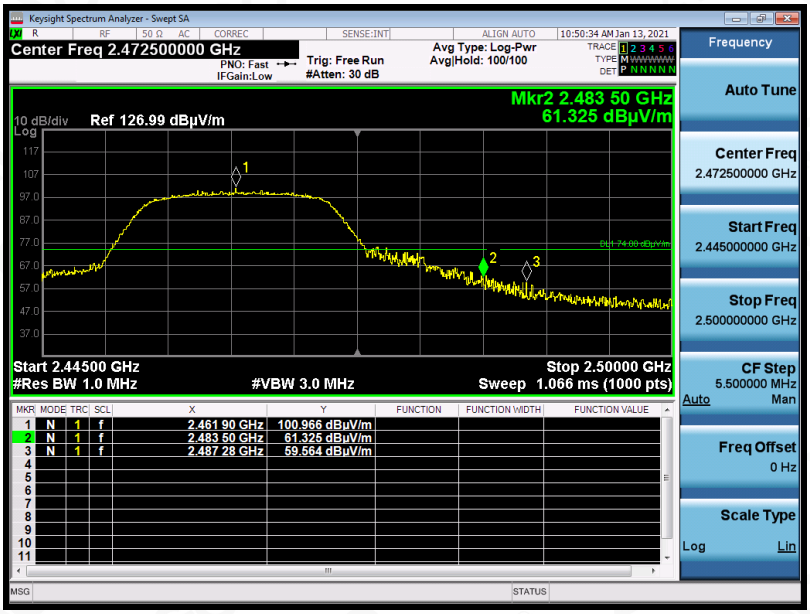
AV



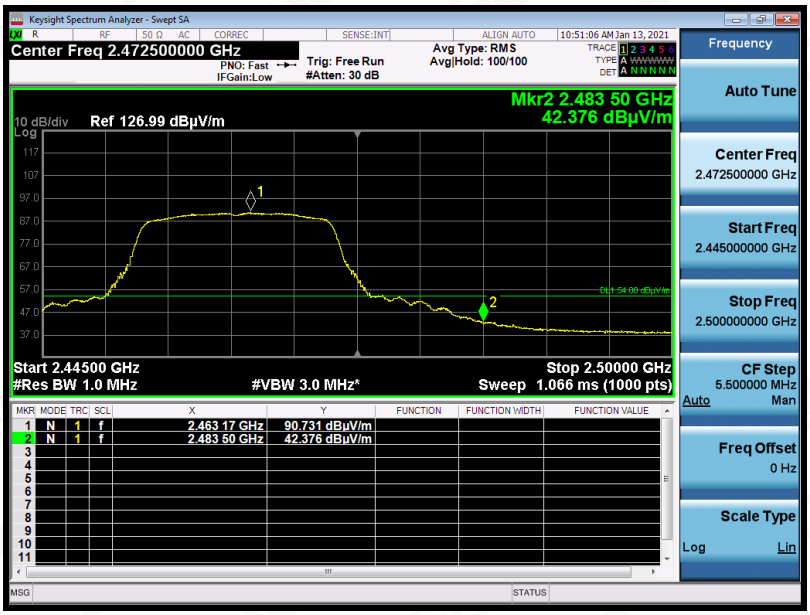
RESULT: PASS

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal

PK



AV

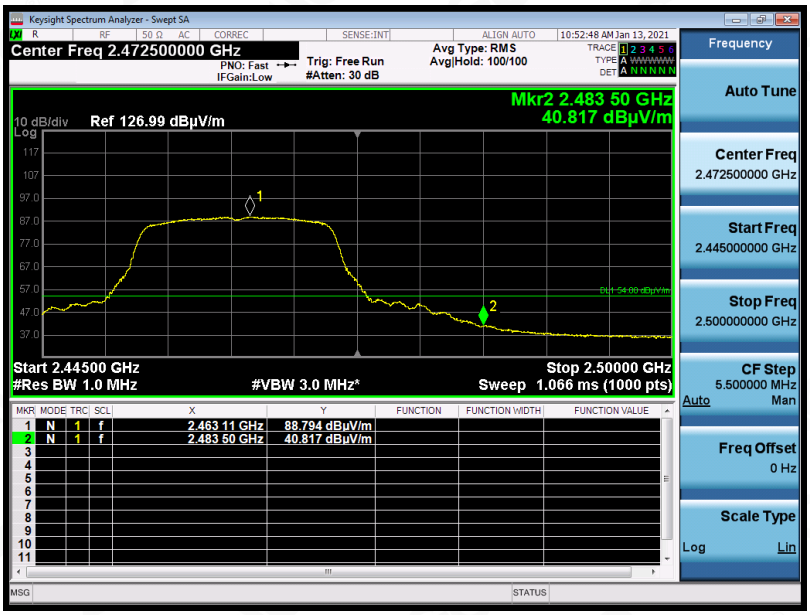


RESULT: PASS

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Vertical

PK

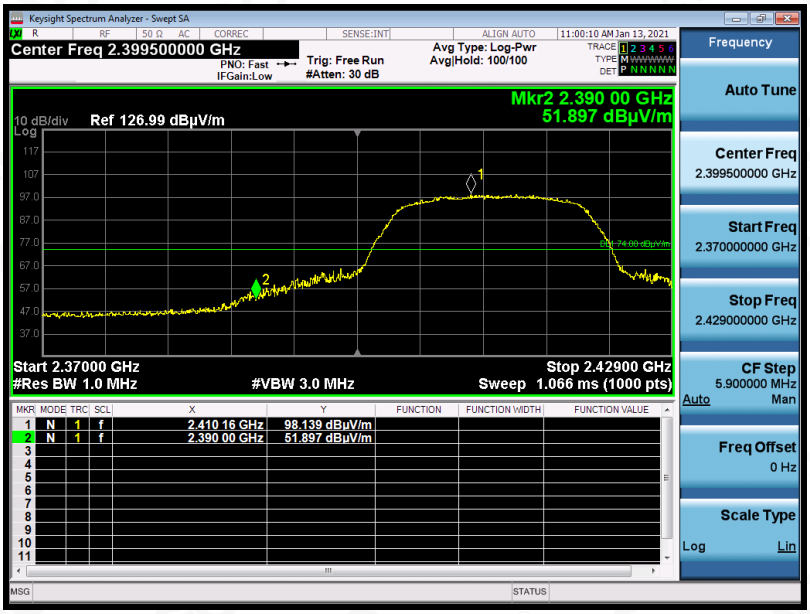
AV



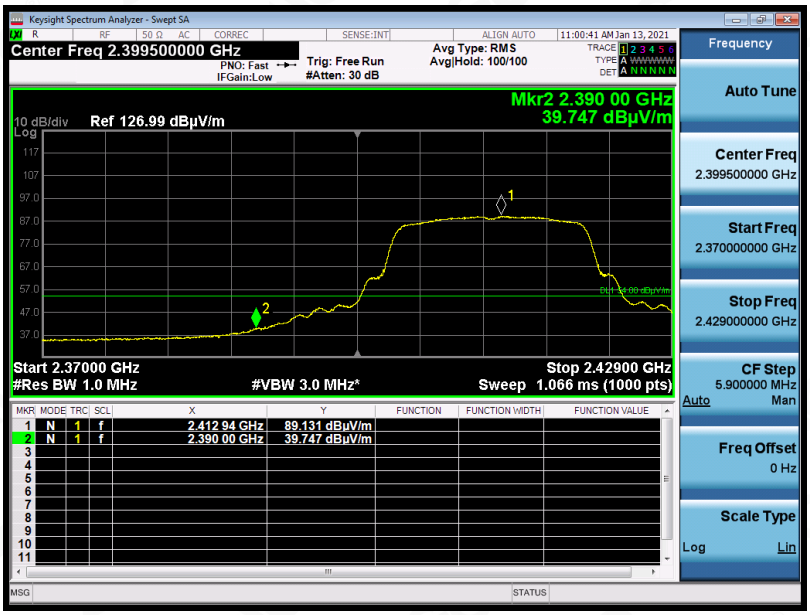
RESULT: PASS

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Horizontal

PK



AV

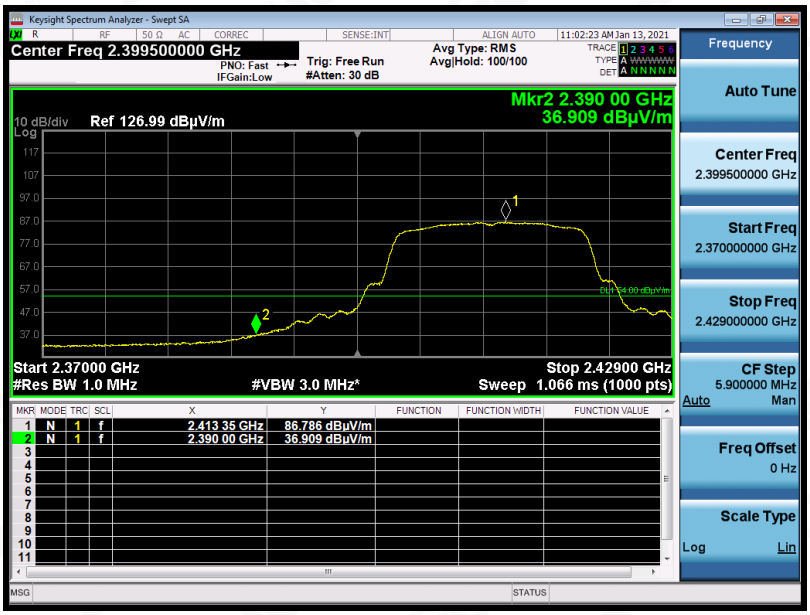


RESULT: PASS

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Vertical

PK

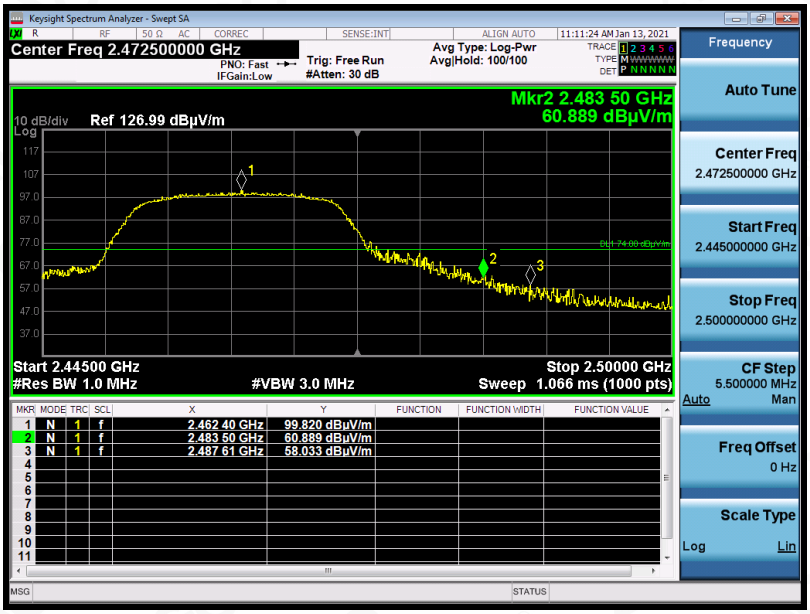
AV



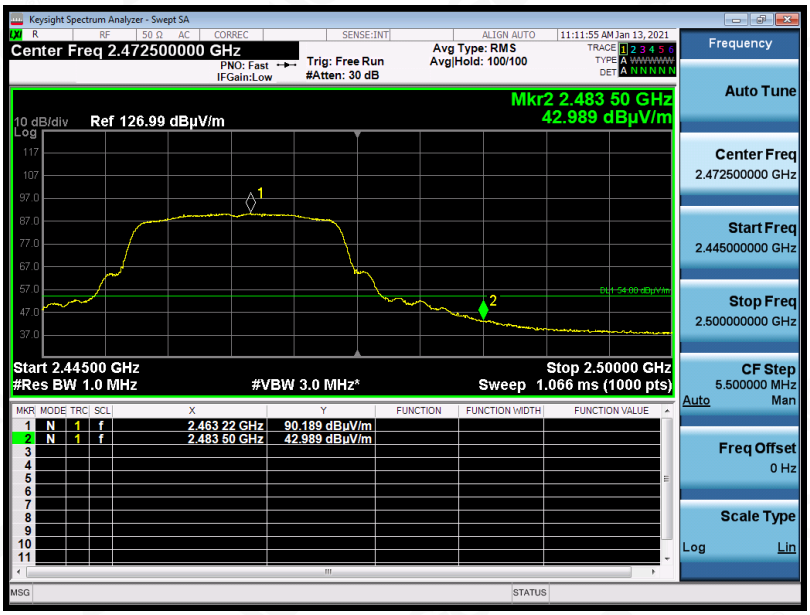
RESULT: PASS

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Horizontal

PK



AV

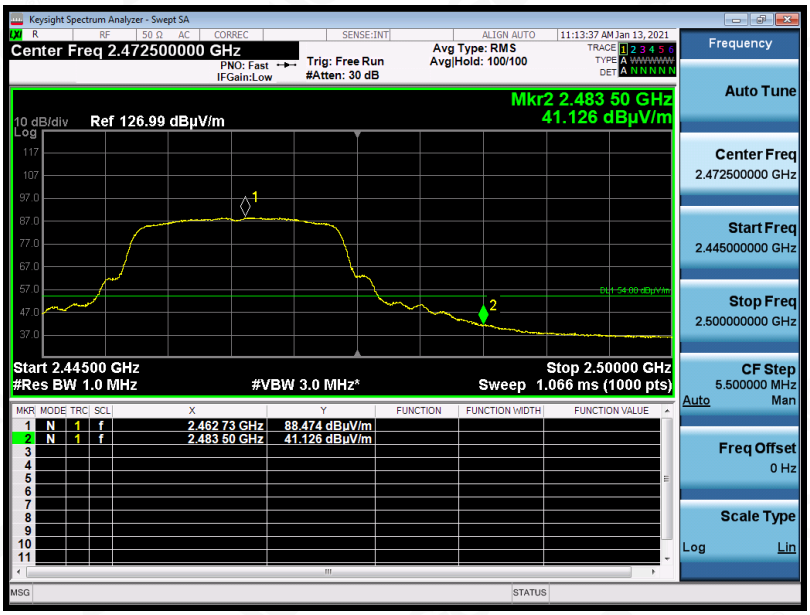


RESULT: PASS

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Vertical

PK

AV

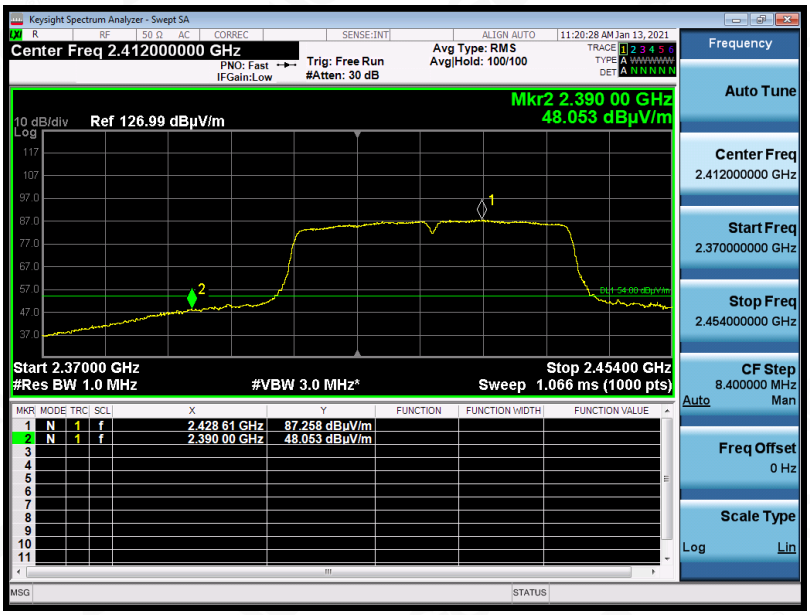


RESULT: PASS

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Horizontal

PK

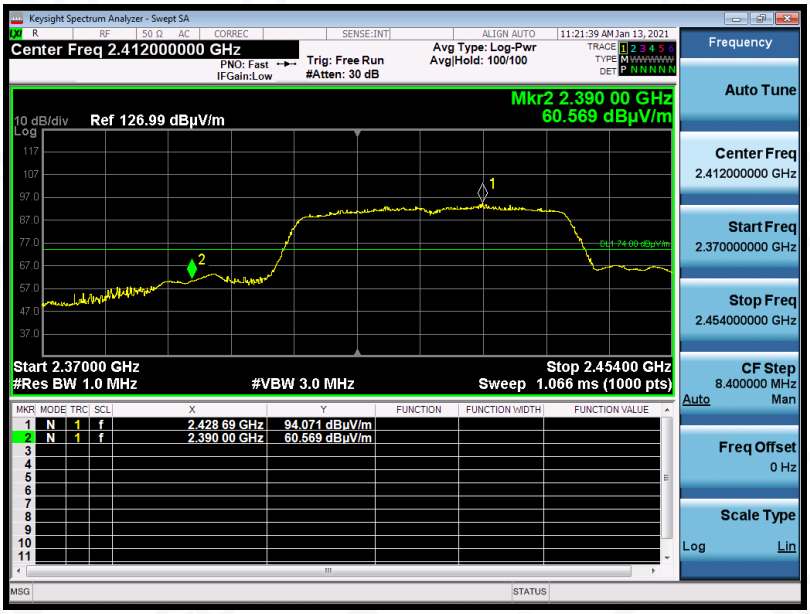
AV



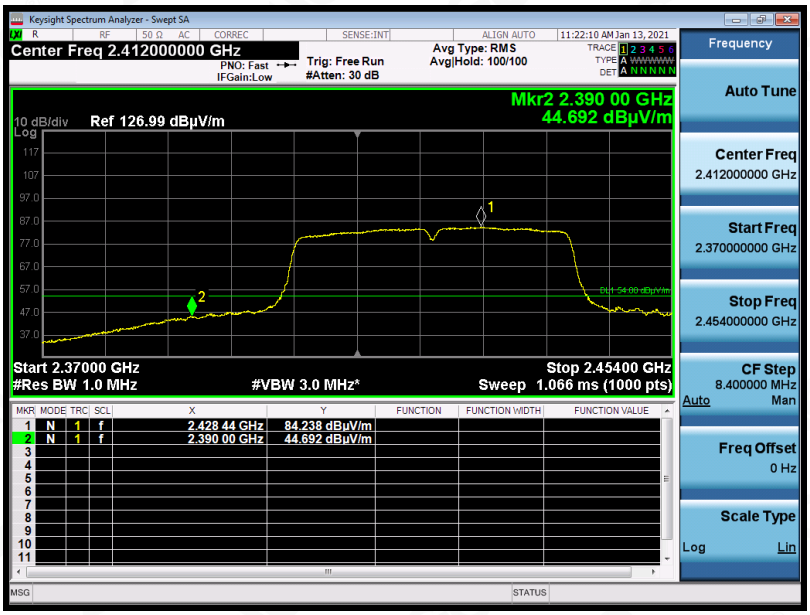
RESULT: PASS

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Vertical

PK



AV

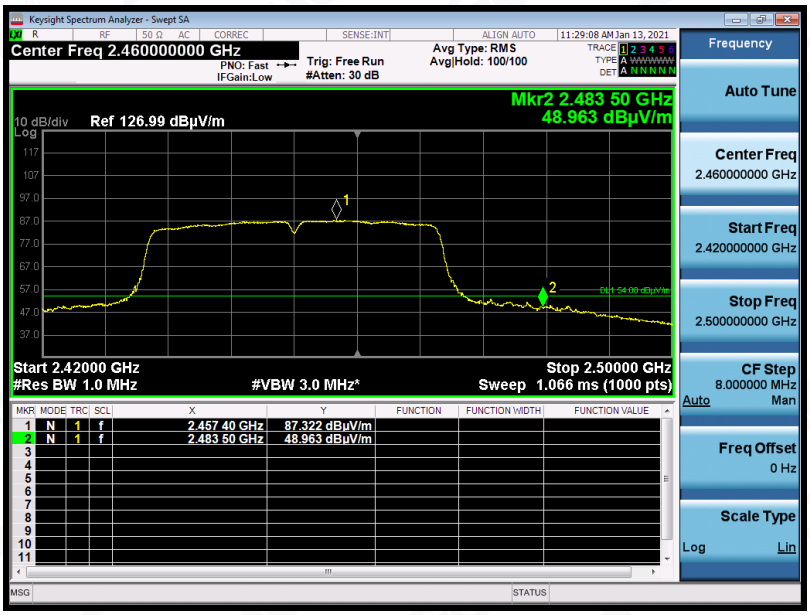


RESULT: PASS

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40with data rate 13.5 2452MHZ	Antenna	Horizontal

PK

AV

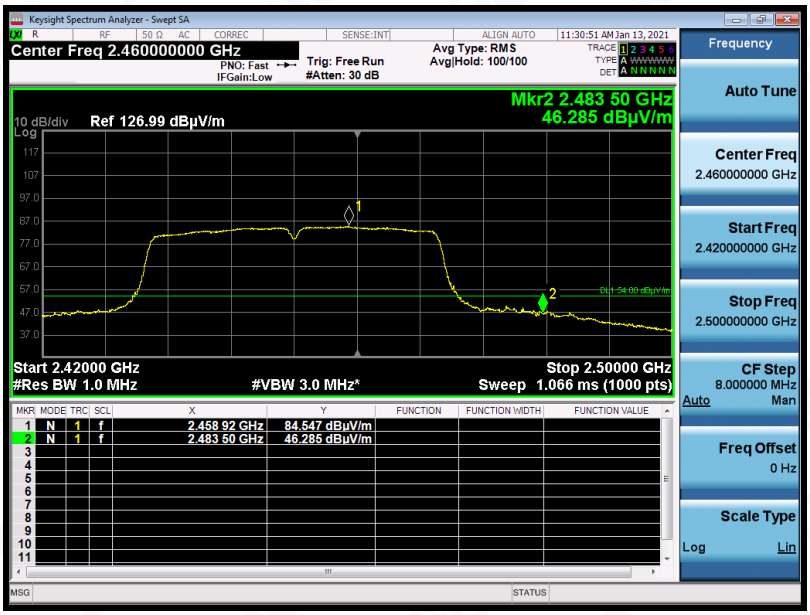


RESULT: PASS

EUT	Smart visual ear-clean Rod	Model Name	bebird Note3
Temperature	21.8℃	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2452MHZ	Antenna	Vertical

PK

AV



RESULT: PASS

13. FCC LINE CONDUCTED EMISSION TEST

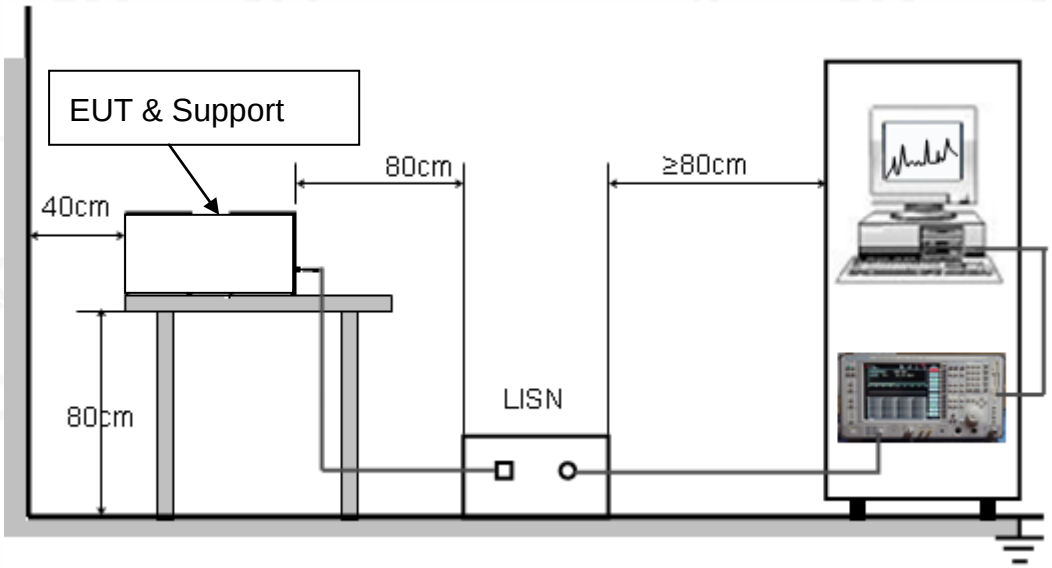
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

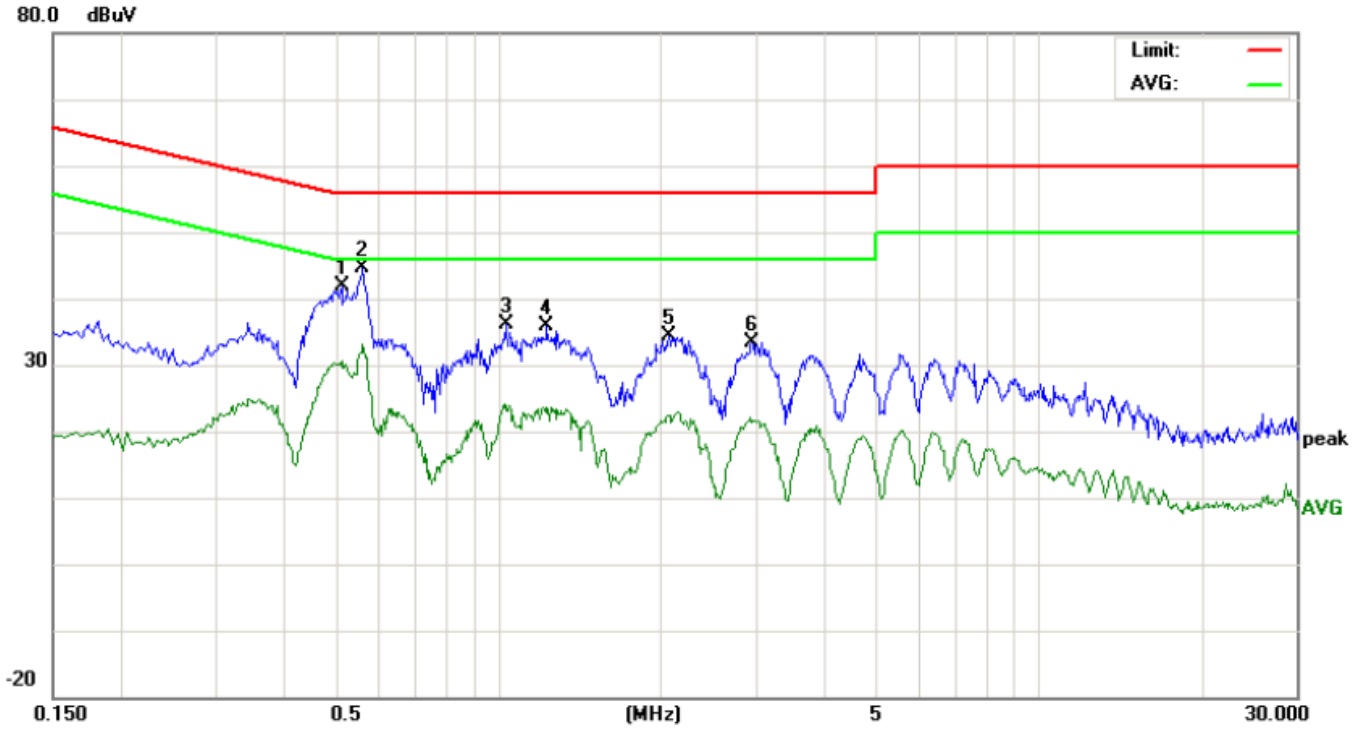
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

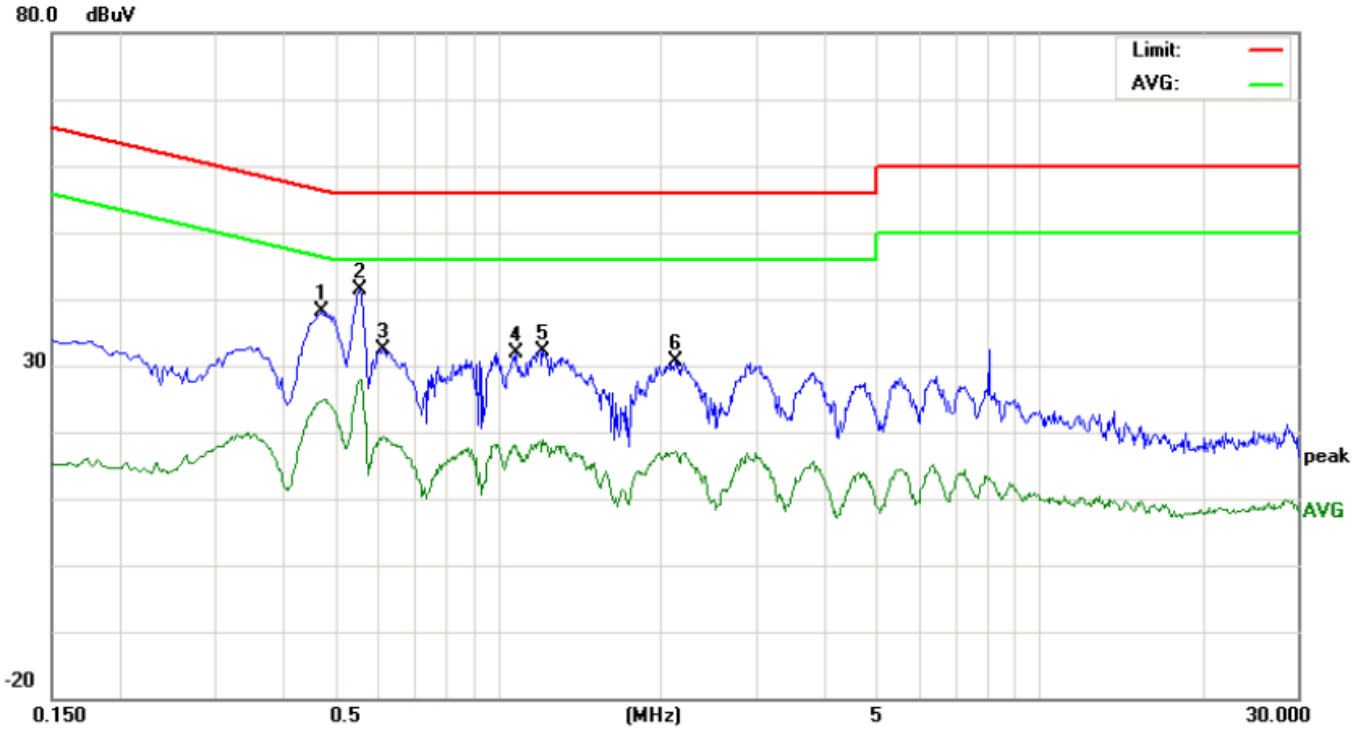
13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F
		Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG	
1	0.5140	28.24	--	16.79	13.75	41.99	--	30.54	56.00	46.00	-14.01	-15.46	P
2	0.5620	30.92	--	19.41	13.79	44.71	--	33.20	56.00	46.00	-11.29	-12.80	P
3	1.0339	22.43	--	9.30	13.81	36.24	--	23.11	56.00	46.00	-19.76	-22.89	P
4	1.2340	21.99	--	9.76	13.78	35.77	--	23.54	56.00	46.00	-20.23	-22.46	P
5	2.0660	20.86	--	8.71	13.64	34.50	--	22.35	56.00	46.00	-21.50	-23.65	P
6	2.9539	20.13	--	8.14	13.31	33.44	--	21.45	56.00	46.00	-22.56	-24.55	P

Line Conducted Emission Test Line 2-N



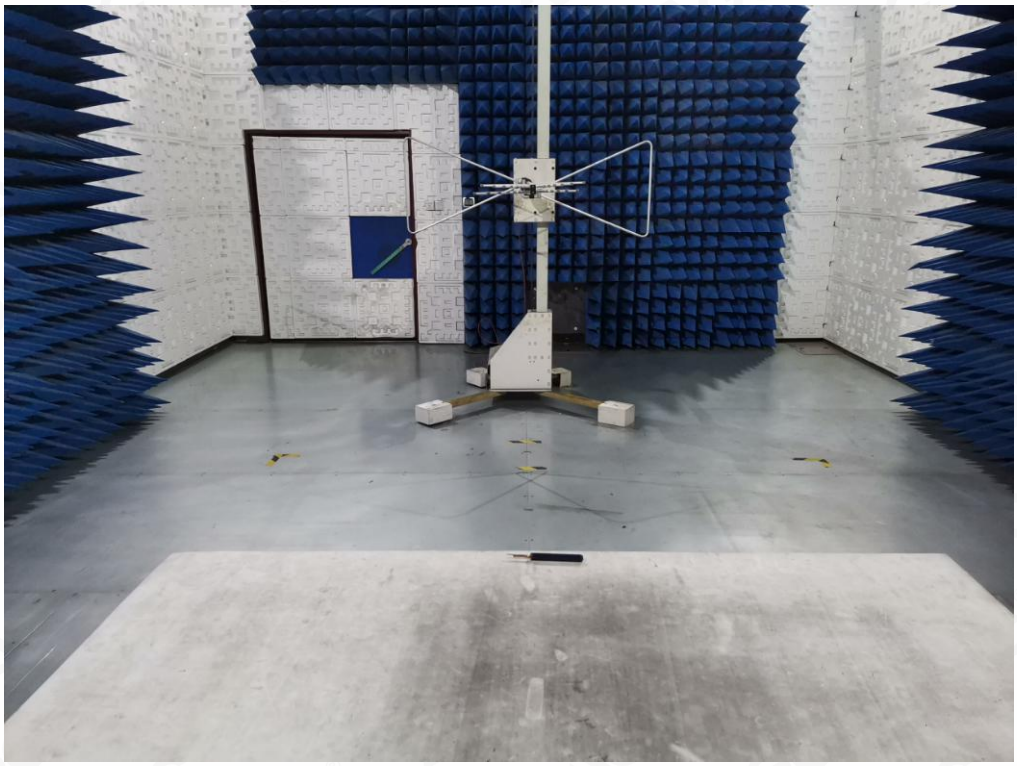
No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F
		Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG	
1	0.4740	24.51	--	10.95	13.68	38.19	--	24.63	56.44	46.44	-18.25	-21.81	P
2	0.5580	27.52	--	14.19	13.79	41.31	--	27.98	56.00	46.00	-14.69	-18.02	P
3	0.6140	18.67	--	5.52	13.82	32.49	--	19.34	56.00	46.00	-23.51	-26.66	P
4	1.0780	18.07	--	3.86	13.80	31.87	--	17.66	56.00	46.00	-24.13	-28.34	P
5	1.2100	18.46	--	5.11	13.78	32.24	--	18.89	56.00	46.00	-23.76	-27.11	P
6	2.1380	16.93	--	3.62	13.62	30.55	--	17.24	56.00	46.00	-25.45	-28.76	P

RESULT: PASS

Note: All the test modes had been tested, the 802.11b at low channel was the worst case. Only the data of the worst case would be record in this test report.

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

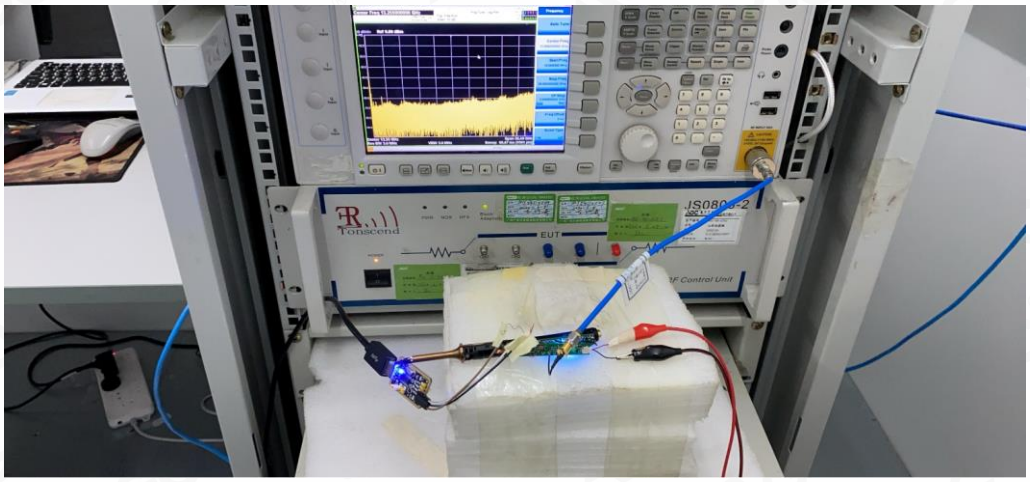
FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ

CONDUCTED EMISSION TEST SETUP

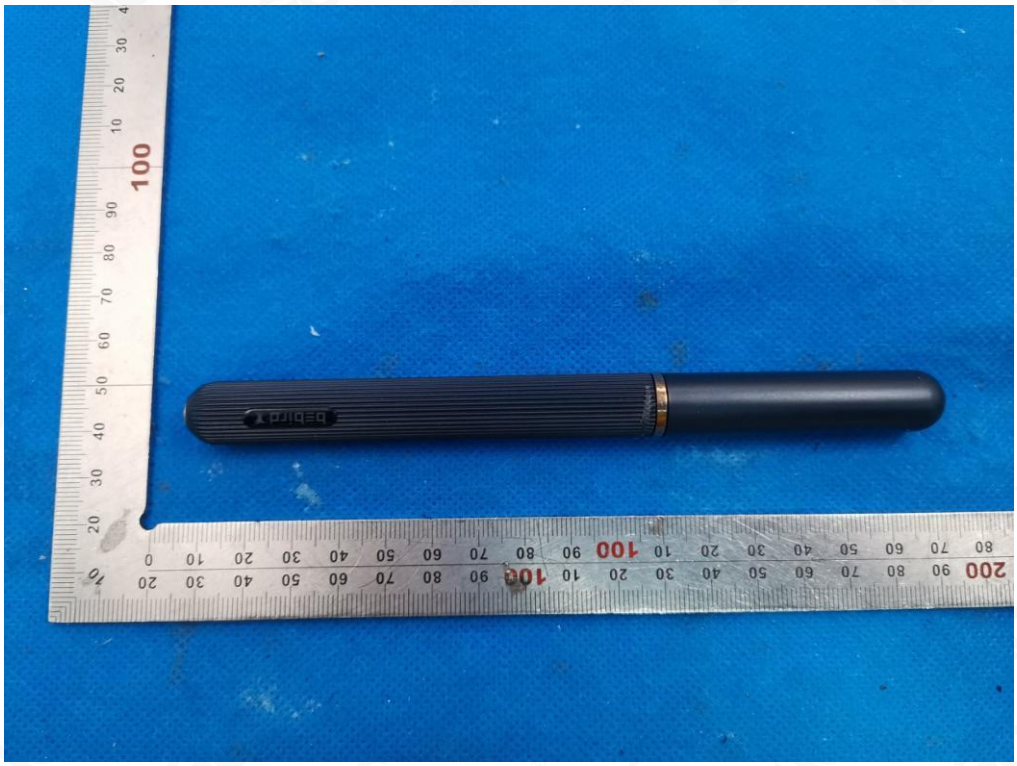
CONDUCTED TEST SETUP



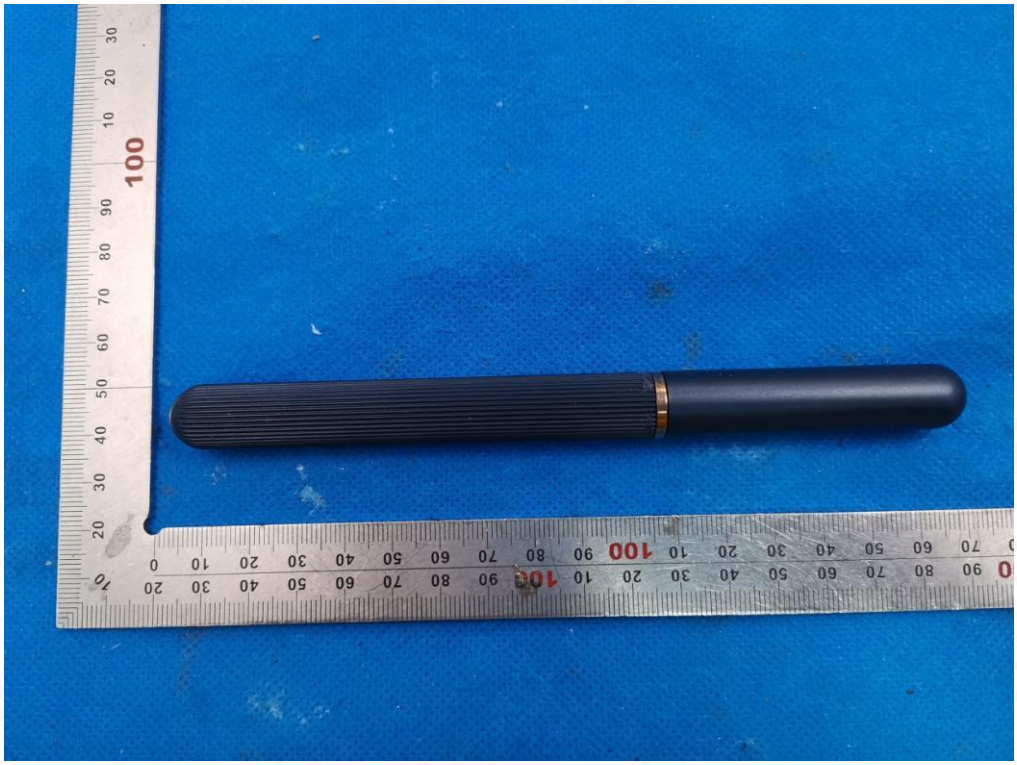
APPENDIX B: PHOTOGRAPHS OF EUT

WHOLE VIEW OF EUT

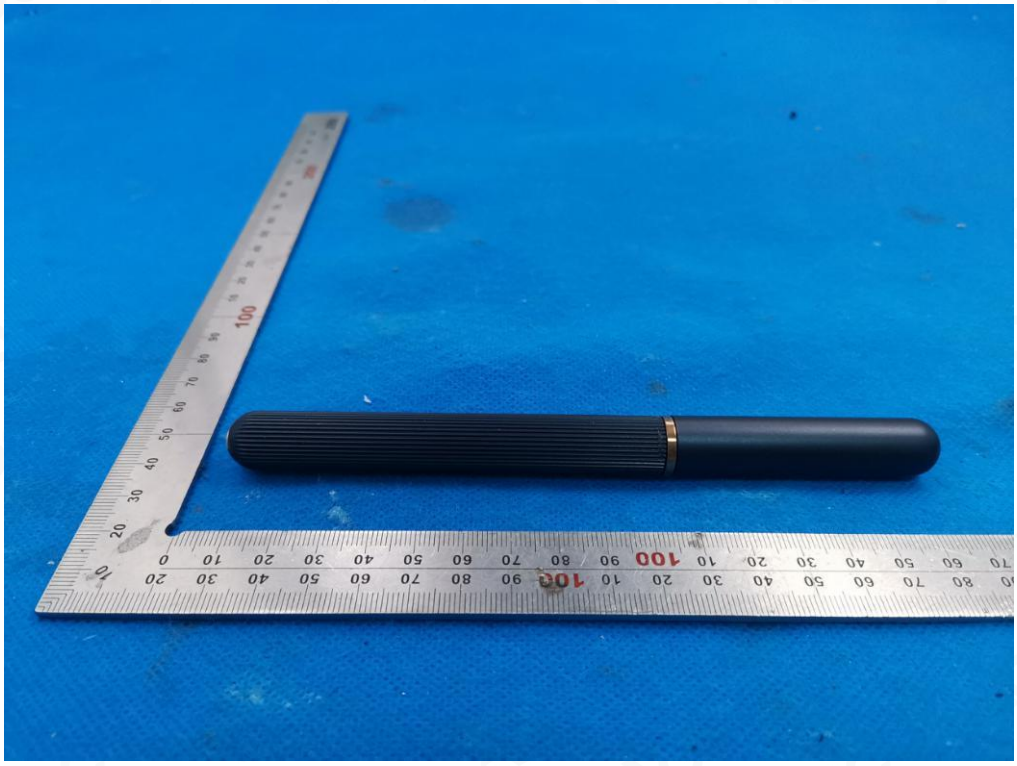
TOP VIEW OF EUT



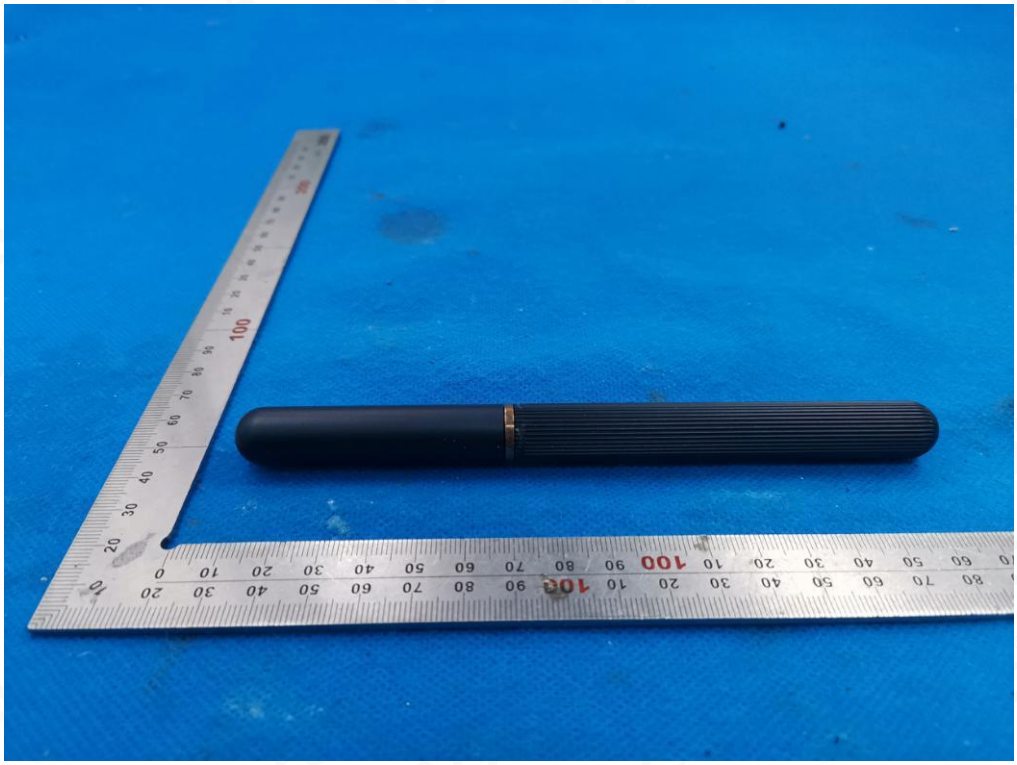
BOTTOM VIEW OF EUT



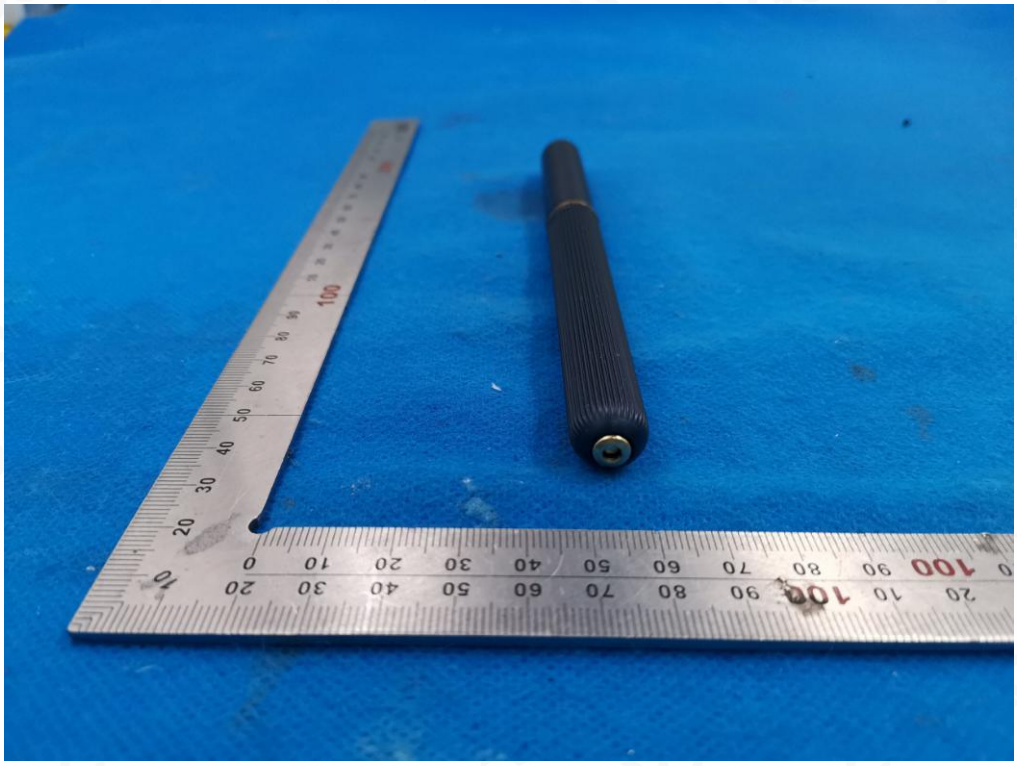
FRONT VIEW OF EUT



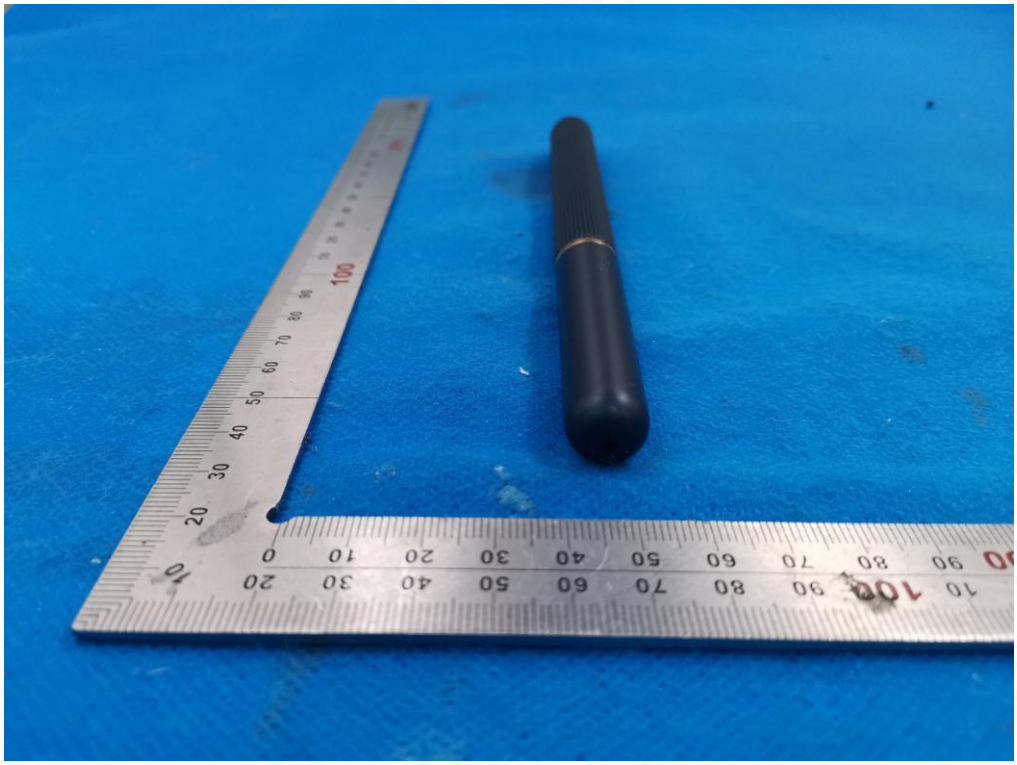
BACK VIEW OF EUT



LEFT VIEW OF EUT

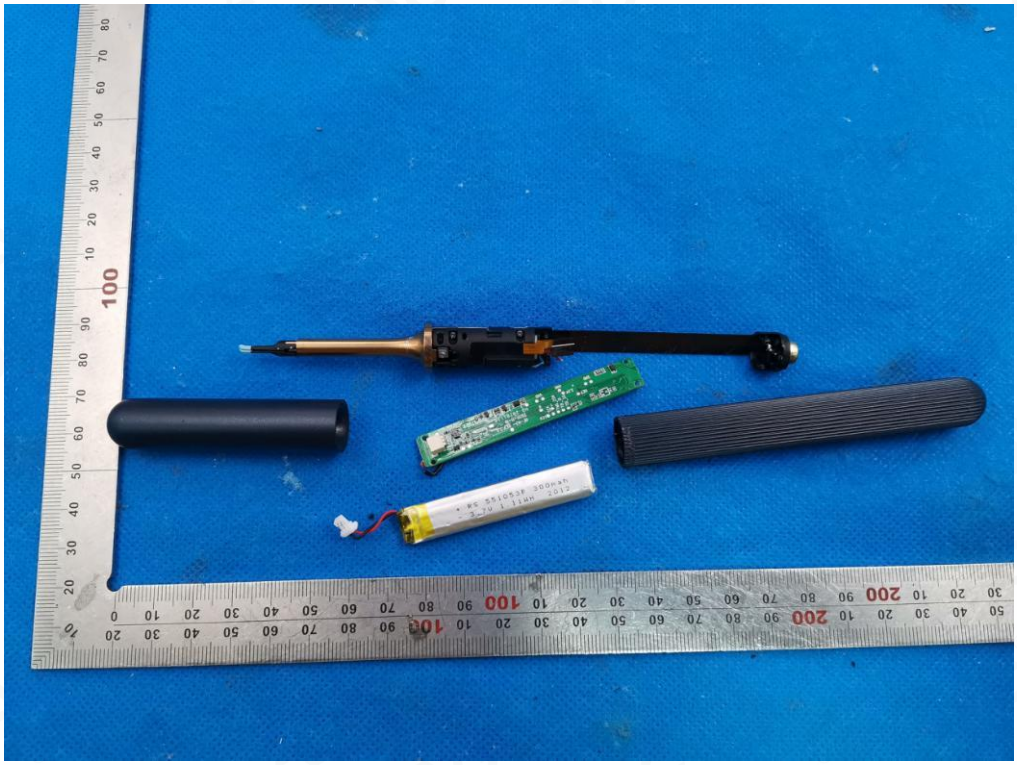


RIGHT VIEW OF EUT

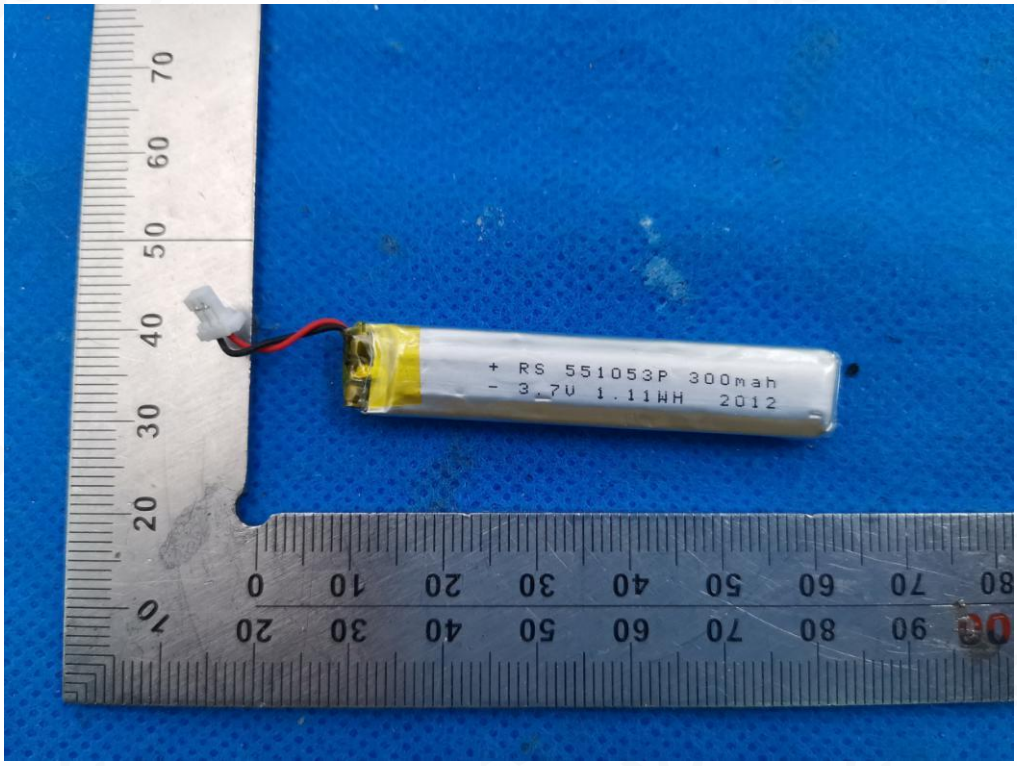


VIEW OF EUT(PORT)

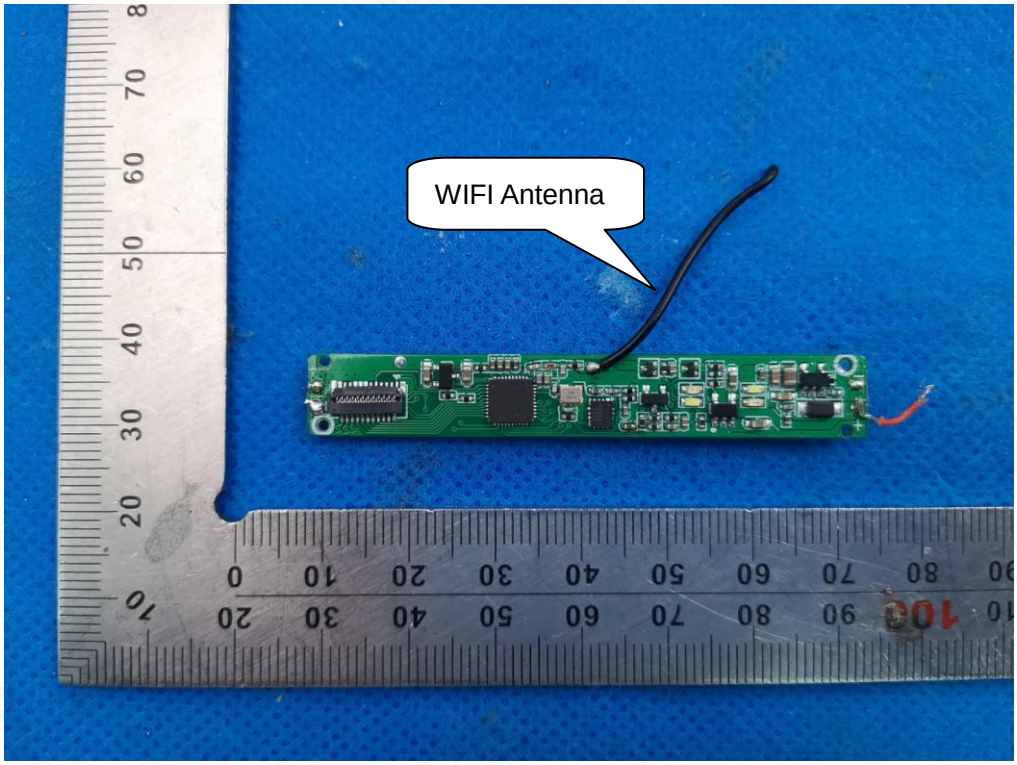
OPEN VIEW OF EUT



VIEW OF BATTERY



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2