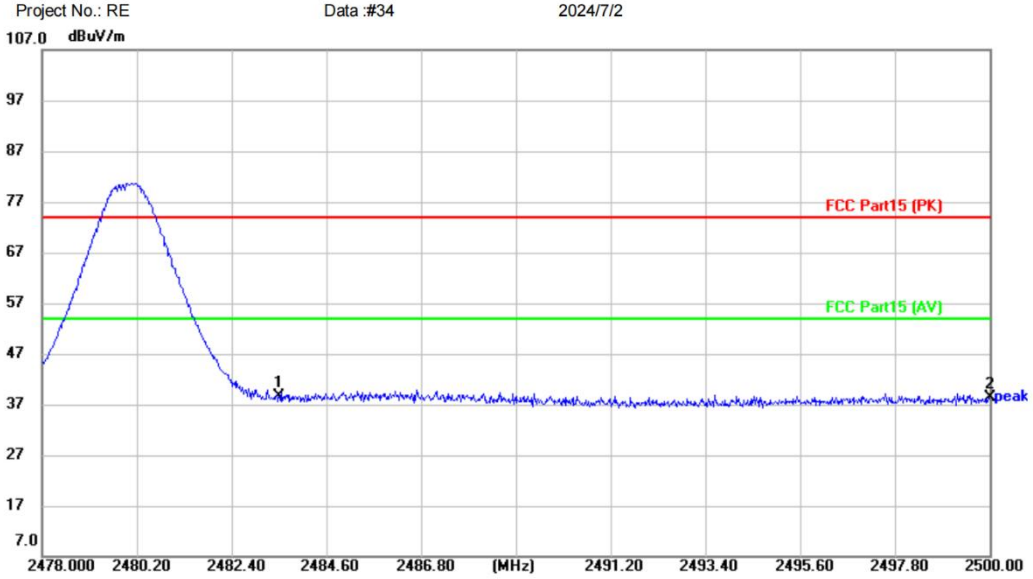
[TestMode: TX high channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: VIZIO MICME MICROPHONE
M/N: SKM210XRL-0805
Mode: 2.4G TX H
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	41.48	-2.91	38.57	74.00	-35.43	peak	
2		2500.000	41.42	-3.00	38.42	74.00	-35.58	peak	

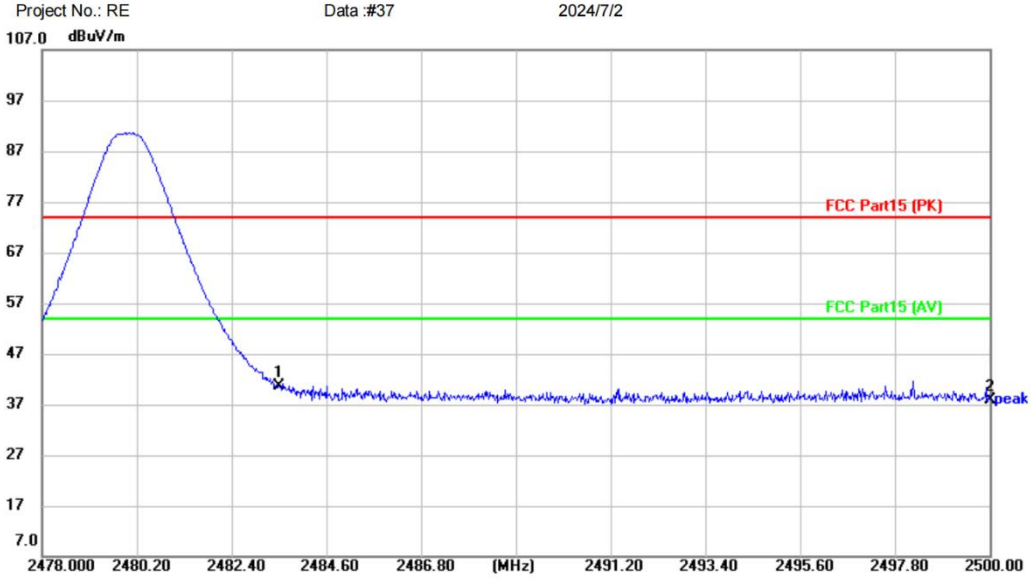
*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass

[TestMode: TX high channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: VIZIO MICME MICROPHONE
M/N: SKM210XRL-0805
Mode: 2.4G TX H
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	43.62	-2.91	40.71	74.00	-33.29	peak	
2		2500.000	40.78	-3.00	37.78	74.00	-36.22	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass

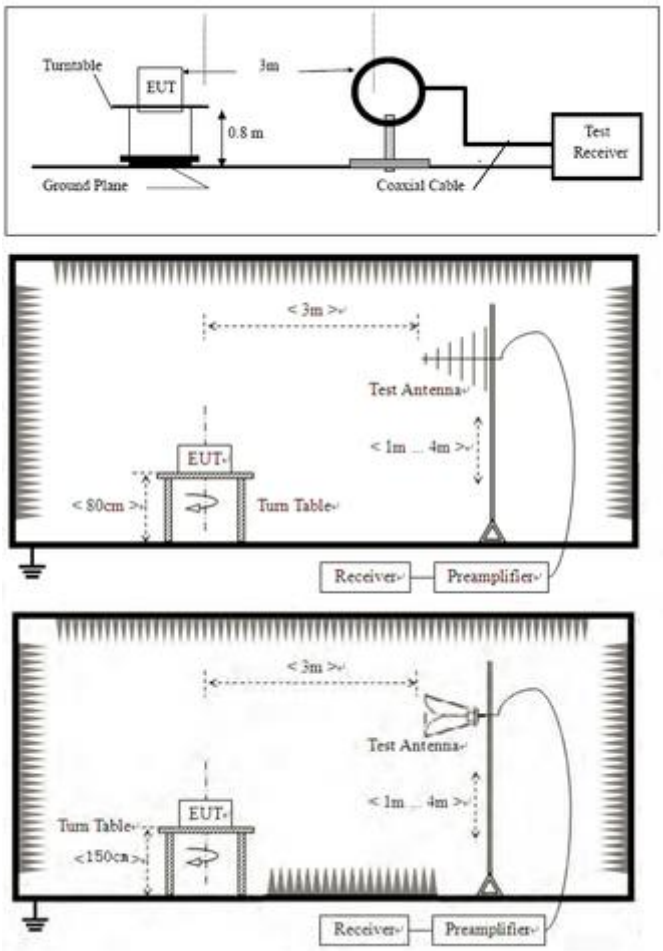
13 FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL (15.249(A))

Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	ANSI C63.10 (2013) Section 6.5&6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

13.1 LIMITS

Frequency	Limit (dBμV/m @3m)	Remark
2400MHz-2483.5MHz	94.0	Average Value
	114.0	Peak Value

13.2 BLOCK DIAGRAM OF TEST SETUP



13.3 PROCEDURE

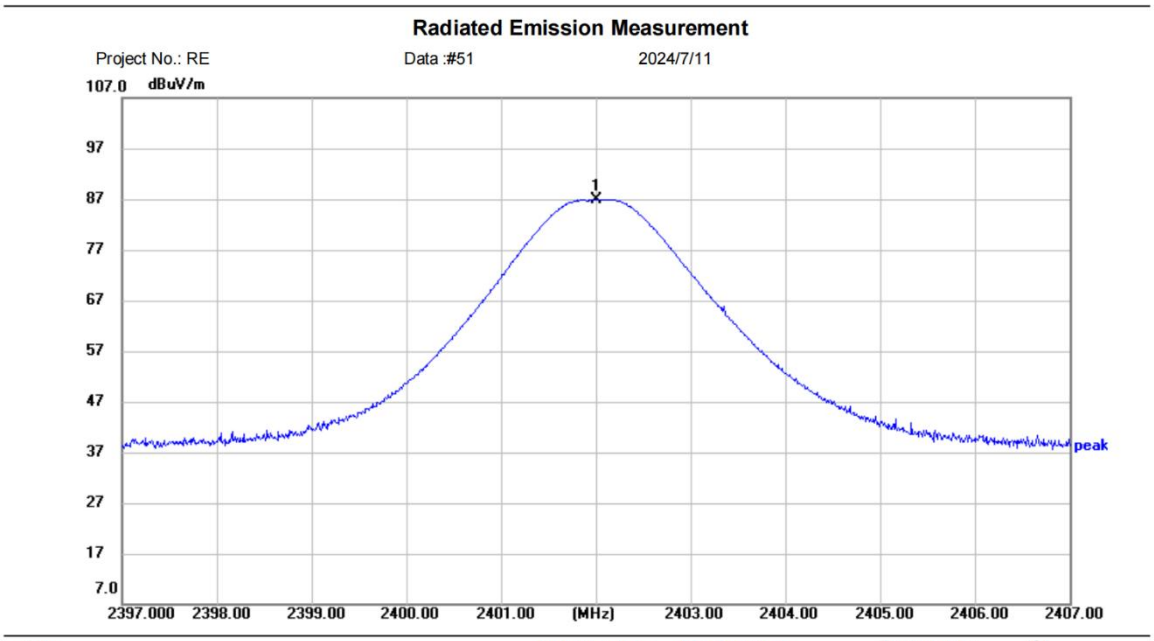
a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not

have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
j. Repeat above procedures until all frequencies measured was complete.
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

13.4 TEST DATA

Peak:

[TestMode: TX low channel]; [Polarity: Horizontal]



Site
Limit:
EUT: VIZIO MICME MICROPHONE
M/N: SKM210XRL-0805
Mode: 2.4G L
Note:

Polarization: *Horizontal*
Power:

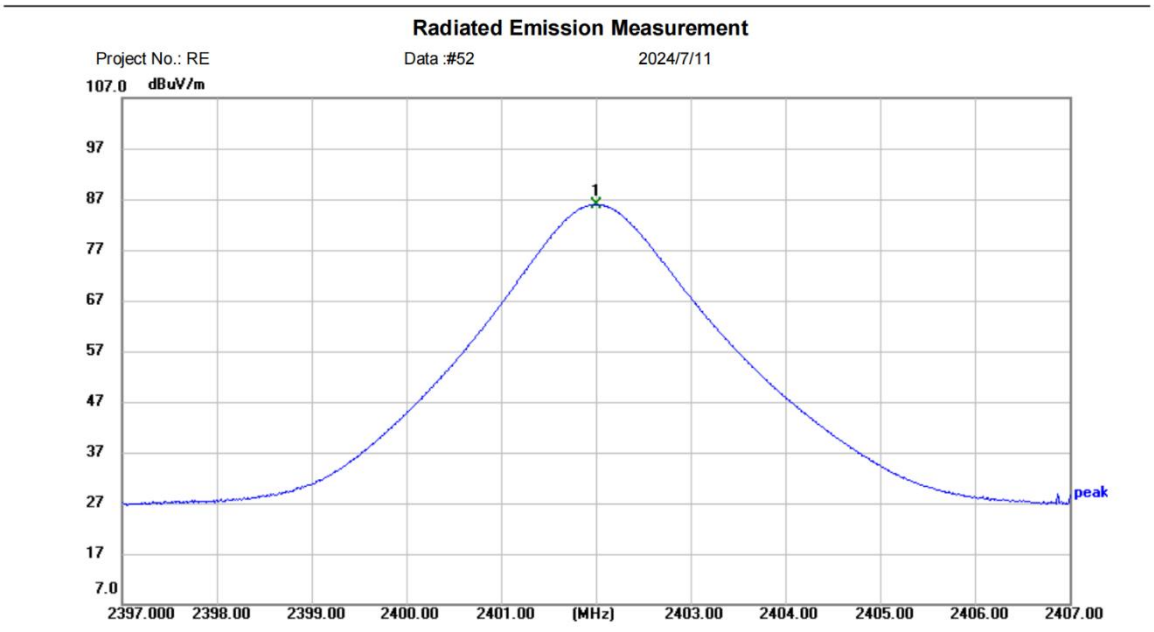
Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2402.010	89.57	-2.68	86.89			peak	

Test Result: Pass, limit=114 dBuV/m

AVG:

[TestMode: TX low channel]; [Polarity: Horizontal]



Site
Limit:
EUT: VIZIO MICME MICROPHONE
M/N: SKM210XRL-0805
Mode: 2.4G L
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2402.010	88.67	-2.68	85.99			AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only

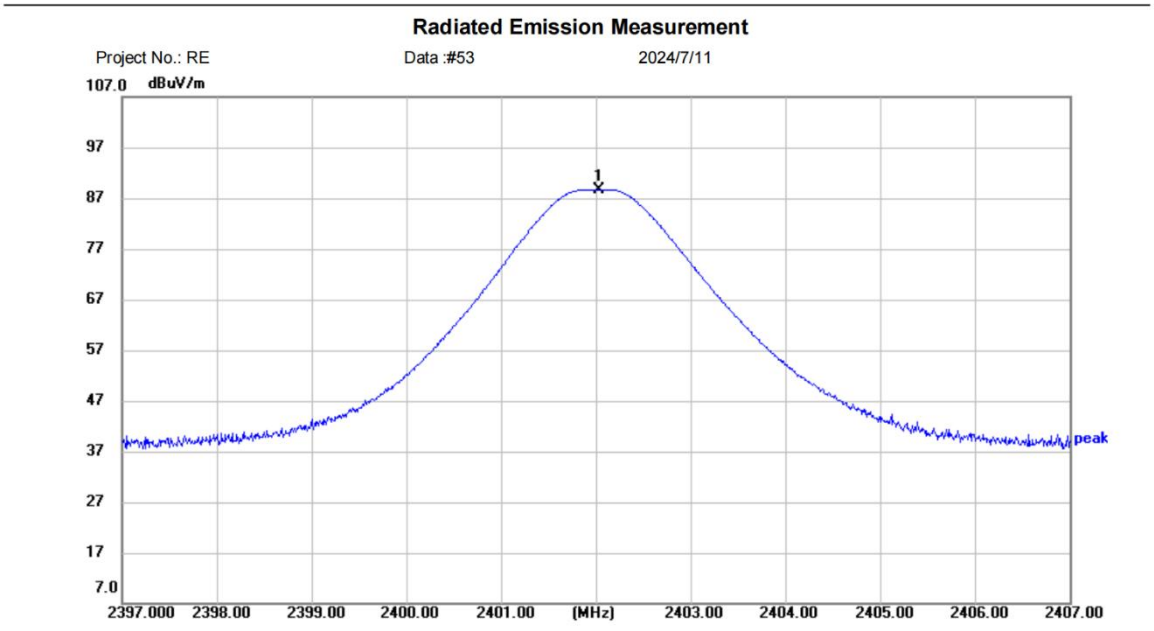
Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass, limit=94 dBuV/m

PEAK:

[TestMode: TX low channel]; [Polarity: Vertical]



Site
Limit:
EUT: VIZIO MICME MICROPHONE
M/N: SKM210XRL-0805
Mode: 2.4G L
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2402.030	91.37	-2.68	88.69			peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

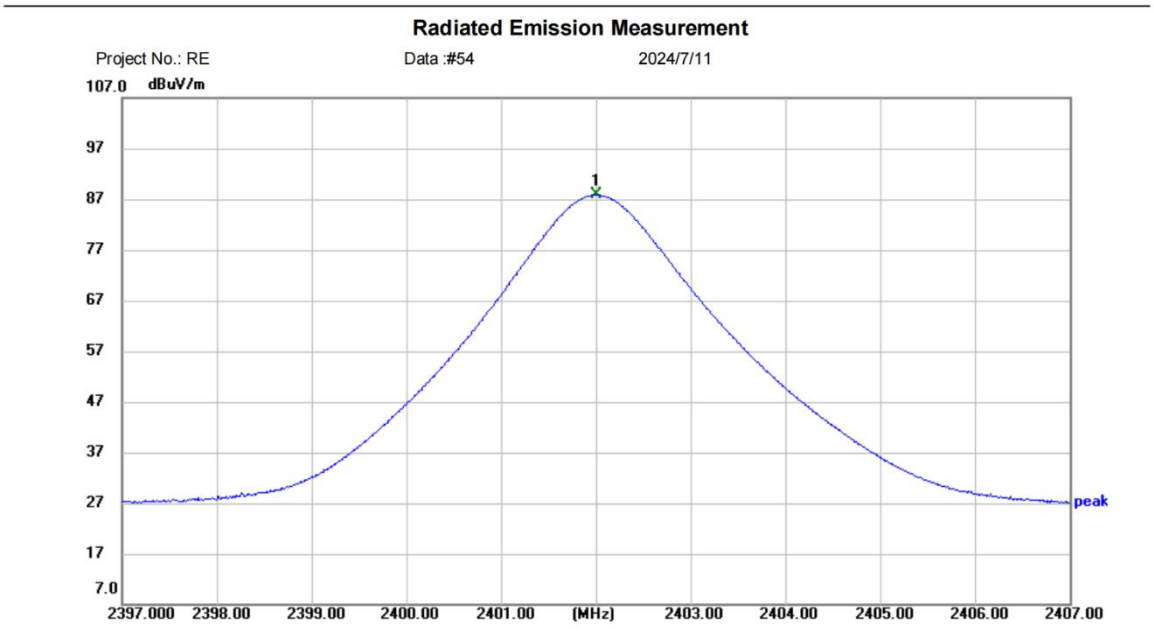
Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass, limit=114 dBuV/m

AVG:

[TestMode: TX low channel]; [Polarity: Vertical]



Site
Limit:
EUT: VIZIO MICME MICROPHONE
M/N: SKM210XRL-0805
Mode: 2.4G L
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2402.010	90.51	-2.68	87.83			AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only

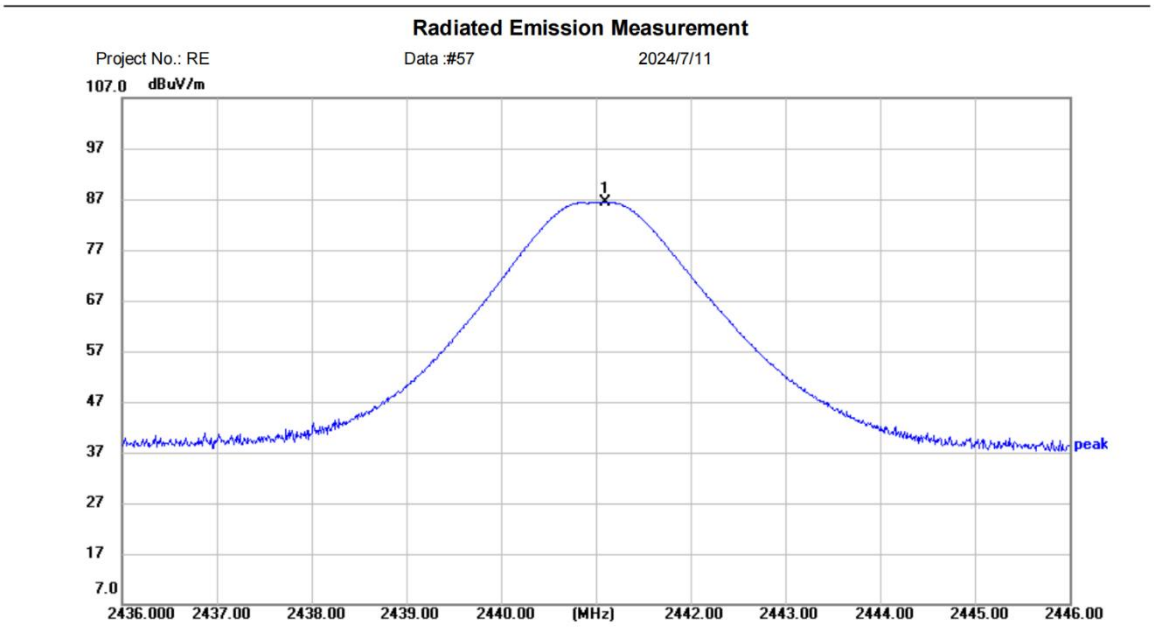
Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass, limit=94 dBuV/m

Peak:

[TestMode: TX mid channel]; [Polarity: Horizontal]



Site
Limit:
EUT: VIZIO MICME MICROPHONE
M/N: SKM210XRL-0805
Mode: 2.4G M
Note:

Polarization: *Horizontal*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2441.100	89.09	-2.72	86.37			peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

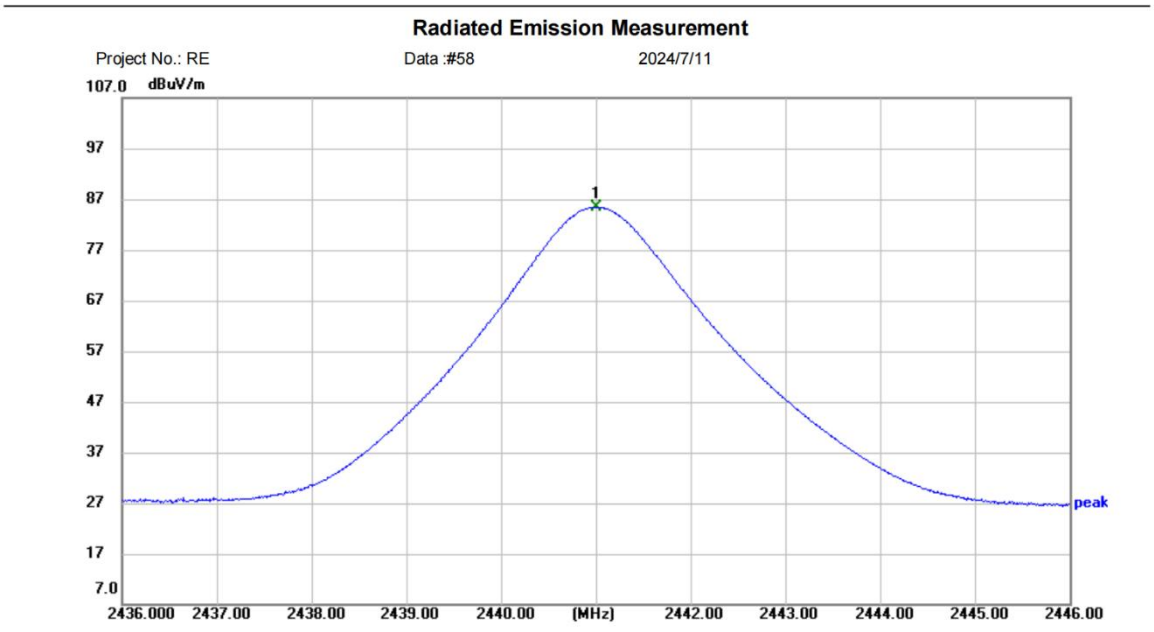
Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass, limit=114 dBuV/m

AVG:

[TestMode: TX mid channel]; [Polarity: Horizontal]



Site
Limit:
EUT: VIZIO MICME MICROPHONE
M/N: SKM210XRL-0805
Mode: 2.4G M
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2441.000	88.22	-2.72	85.50			AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only

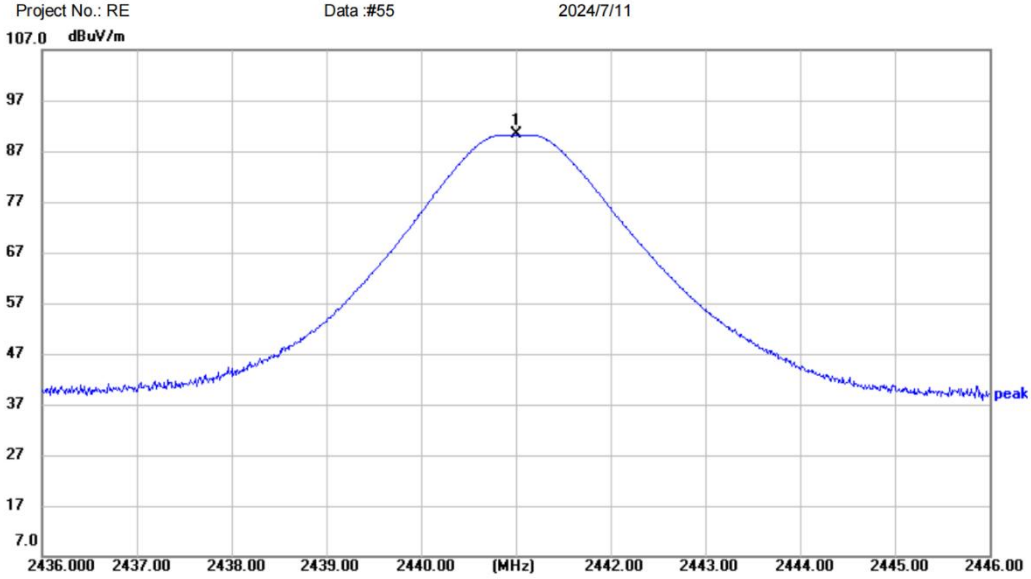
Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass, limit=94 dBuV/m

PEAK:

[TestMode: TX mid channel]; [Polarity: Vertical]



Site
Limit:
EUT: VIZIO MICME MICROPHONE
M/N: SKM210XRL-0805
Mode: 2.4G M
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2441.010	92.98	-2.72	90.26			peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

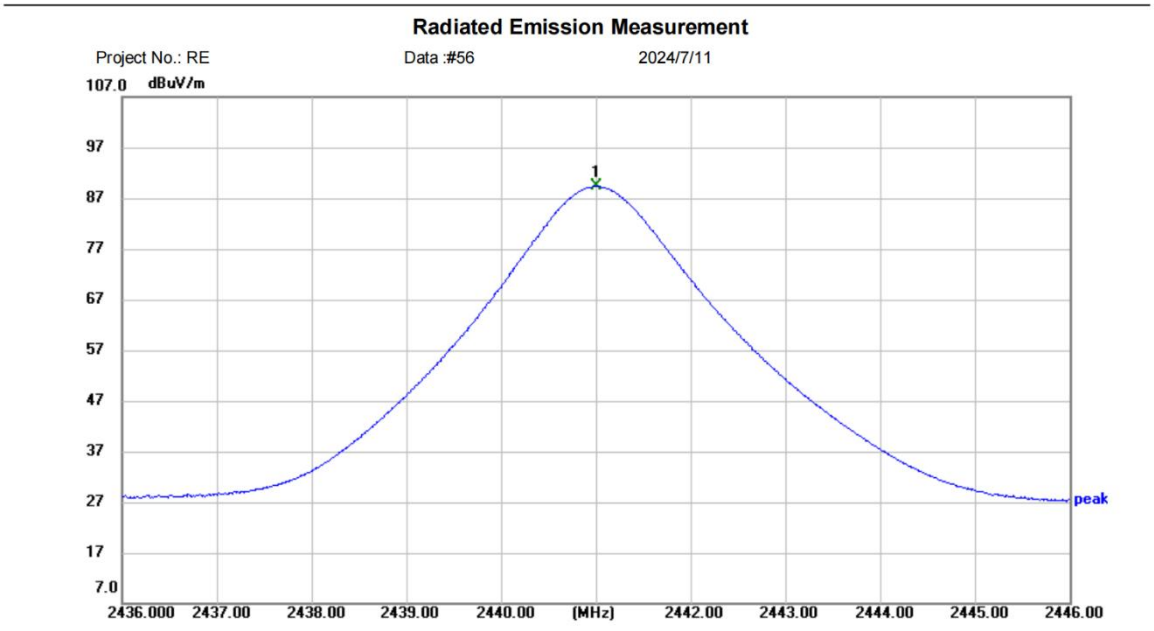
Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass, limit=114 dBuV/m

AVG:

[TestMode: TX mid channel]; [Polarity: Vertical]



Site
Limit:
EUT: VIZIO MICME MICROPHONE
M/N: SKM210XRL-0805
Mode: 2.4G M
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2441.010	92.06	-2.72	89.34			AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only

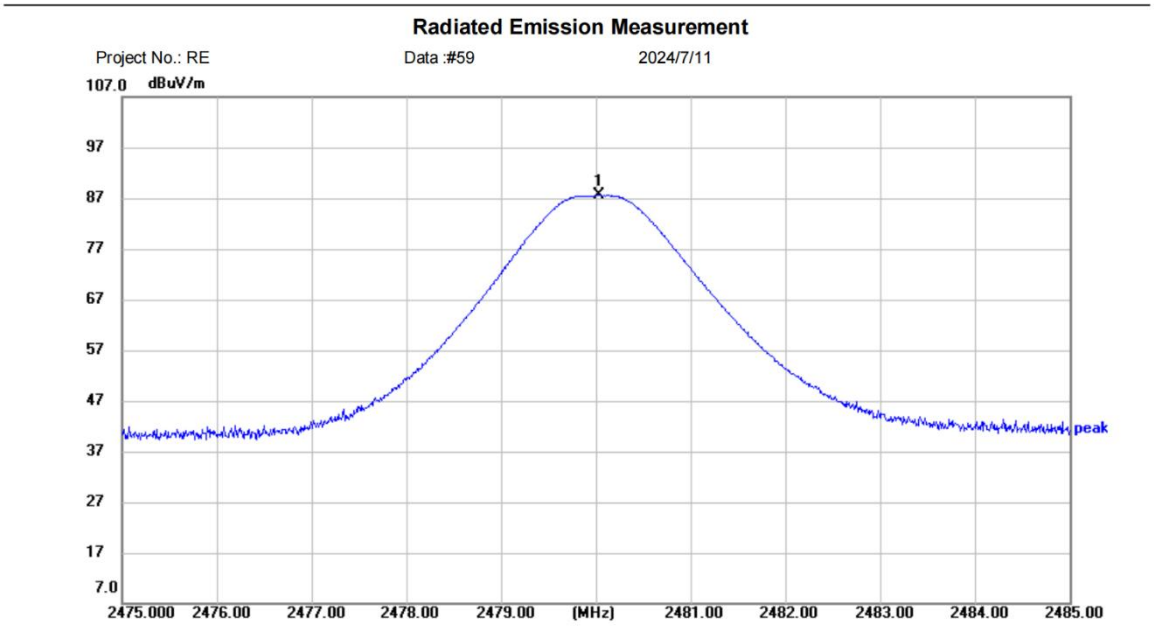
Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass, limit=94 dBuV/m

Peak:

[TestMode: TX high channel]; [Polarity: Horizontal]



Site
Limit:
EUT: VIZIO MICME MICROPHONE
M/N: SKM210XRL-0805
Mode: 2.4G H
Note:

Polarization: *Horizontal*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2480.030	90.47	-2.90	87.57			peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

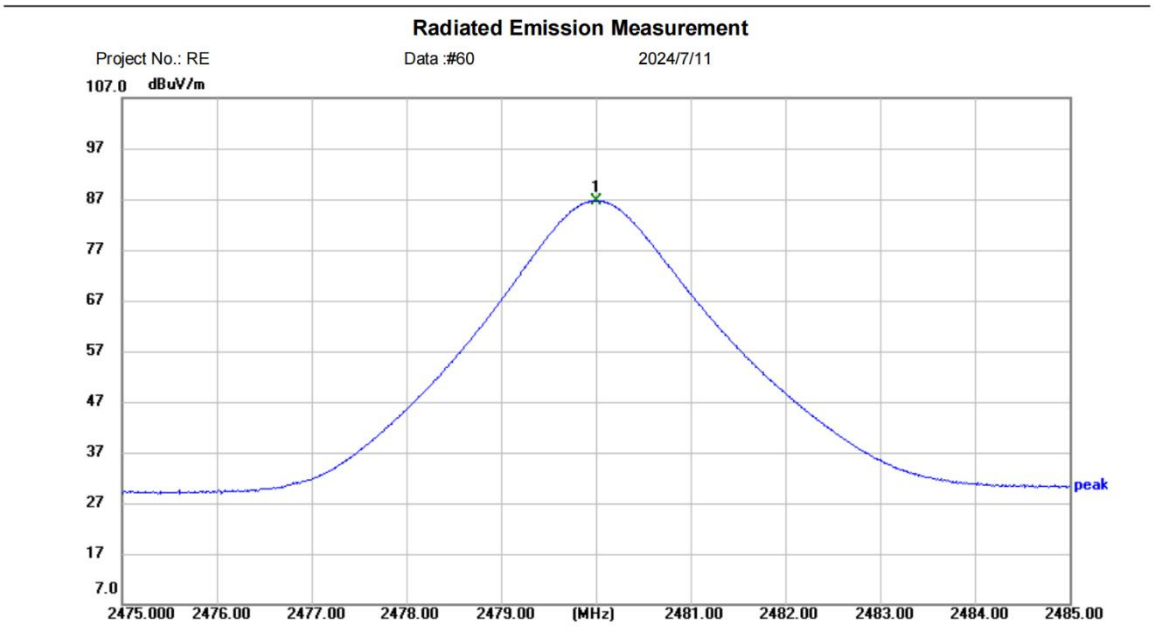
Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass, limit=114 dBuV/m

AVG:

[TestMode: TX high channel]; [Polarity: Horizontal]



Site
Limit:
EUT: VIZIO MICME MICROPHONE
M/N: SKM210XRL-0805
Mode: 2.4G H
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2480.000	89.59	-2.90	86.69			AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only

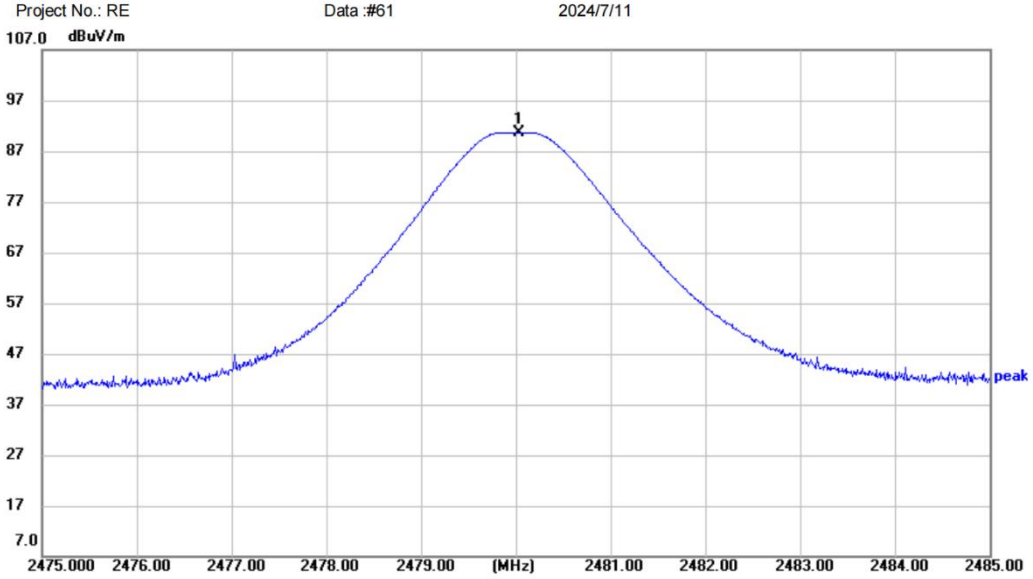
Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass, limit=94 dBuV/m

PEAK:

[TestMode: TX high channel]; [Polarity: Vertical]



Site
Limit:
EUT: VIZIO MICME MICROPHONE
M/N: SKM210XRL-0805
Mode: 2.4G H
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2480.030	93.62	-2.90	90.72			peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

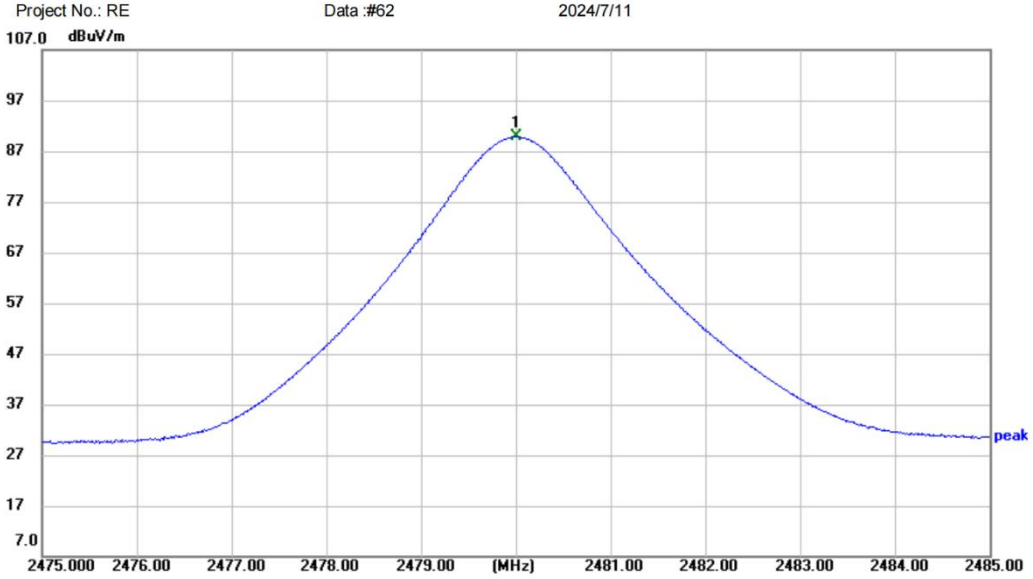
Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass, limit=114 dBuV/m

AVG:

[TestMode: TX high channel]; [Polarity: Vertical]



Site
Limit:
EUT: VIZIO MICME MICROPHONE
M/N: SKM210XRL-0805
Mode: 2.4G H
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2480.010	92.76	-2.90	89.86			AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass, limit=94 dBuV/m

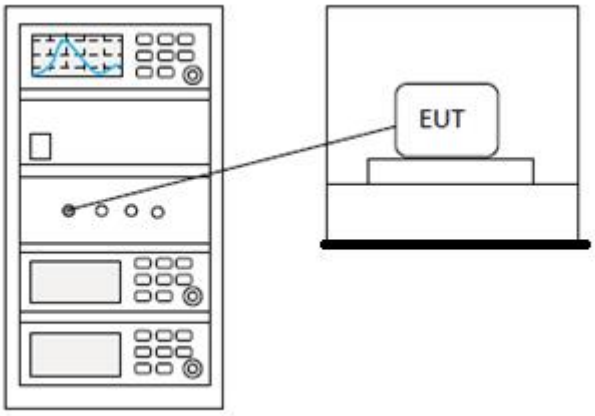
14 20DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	ANSI C63.10 (2013) Section 6.9
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

14.1 LIMITS

Limit:	N/A

14.2 BLOCK DIAGRAM OF TEST SETUP



14.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

15 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	N/A

15.1 CONCLUSION

Standard Requirement:
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. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

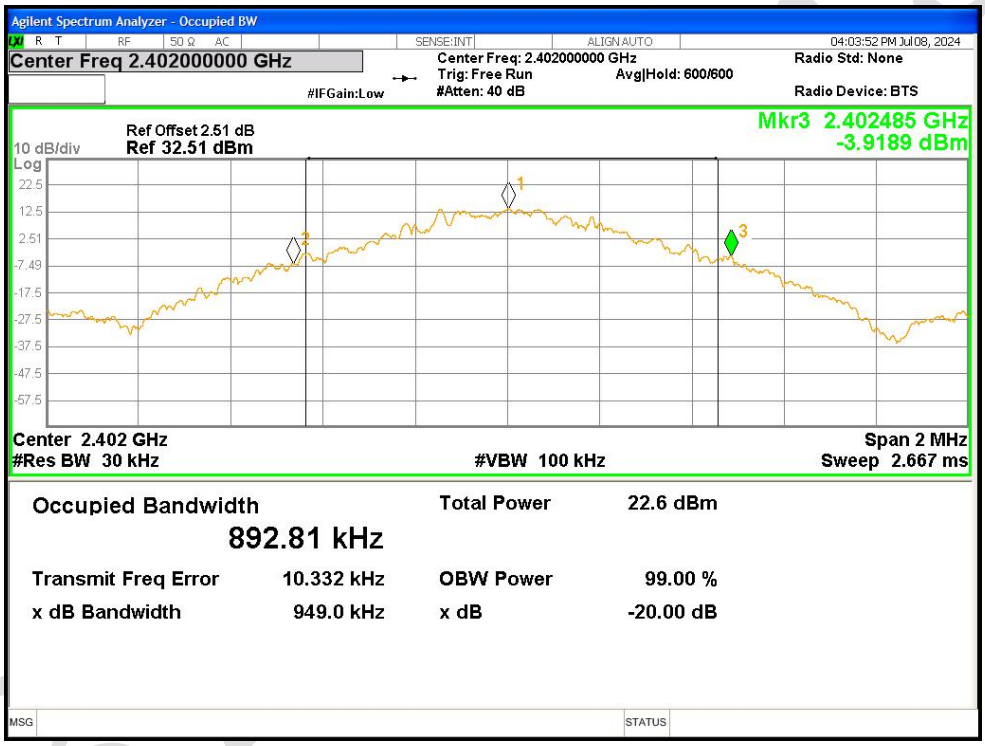
EUT Antenna:
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.09dBi.

16 APPENDIX

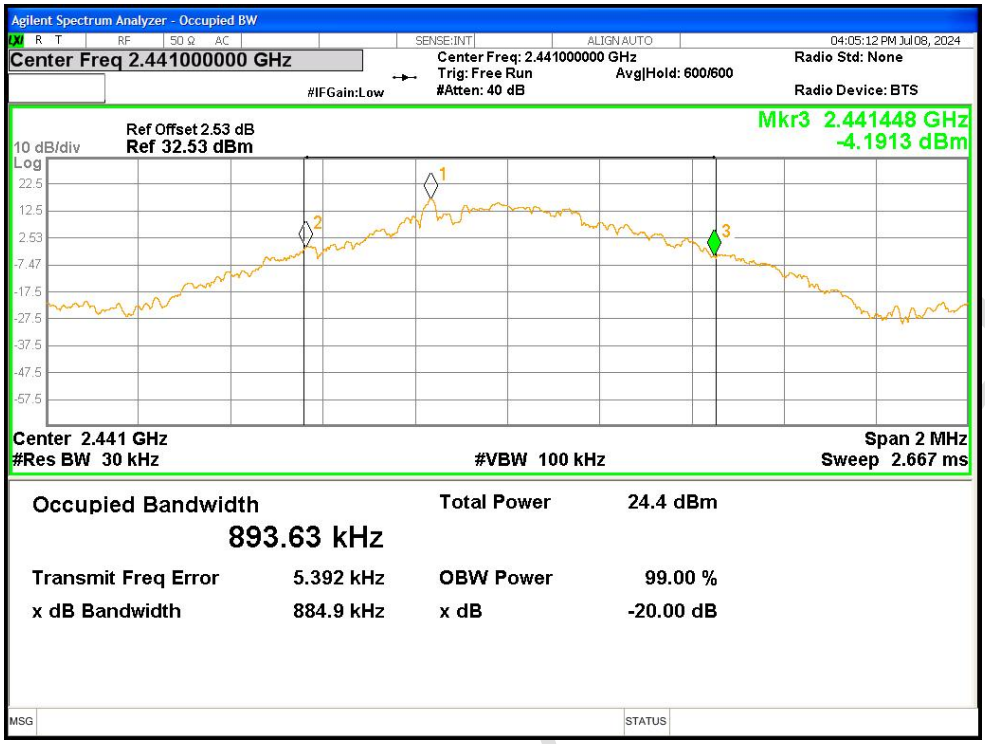
-20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	GFSK	2402	Ant1	0.949	N/A	Pass
NVNT	GFSK	2441	Ant1	0.885	N/A	Pass
NVNT	GFSK	2480	Ant1	1.015	N/A	Pass

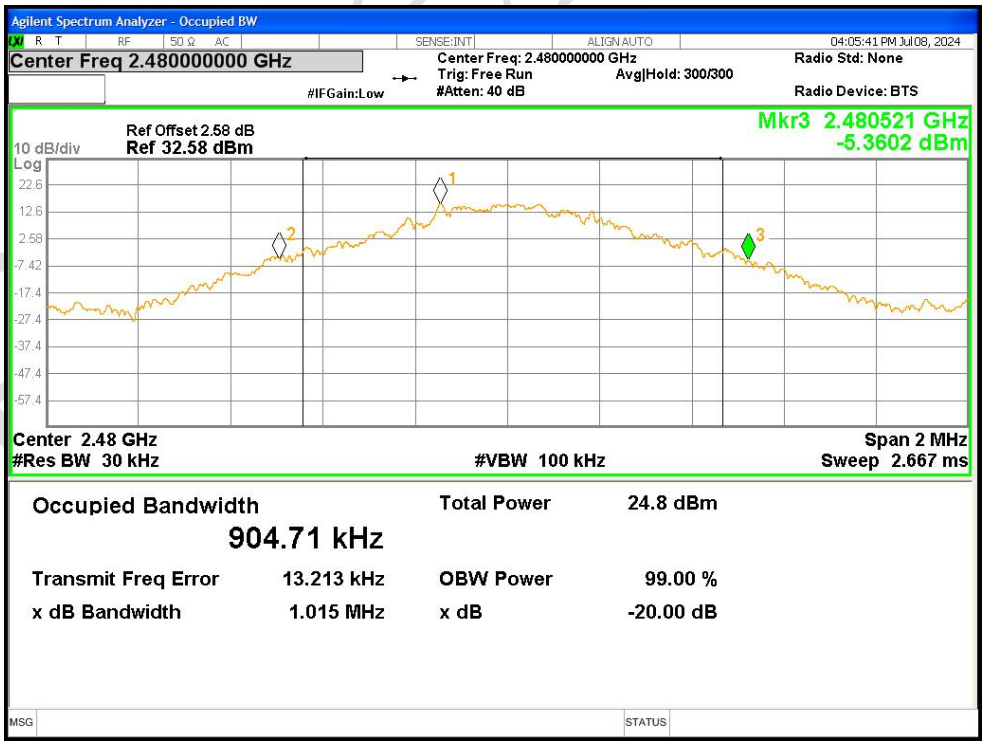
-20dB Bandwidth NVNT GFSK 2402MHz Ant1



-20dB Bandwidth NVNT GFSK 2441MHz Ant1

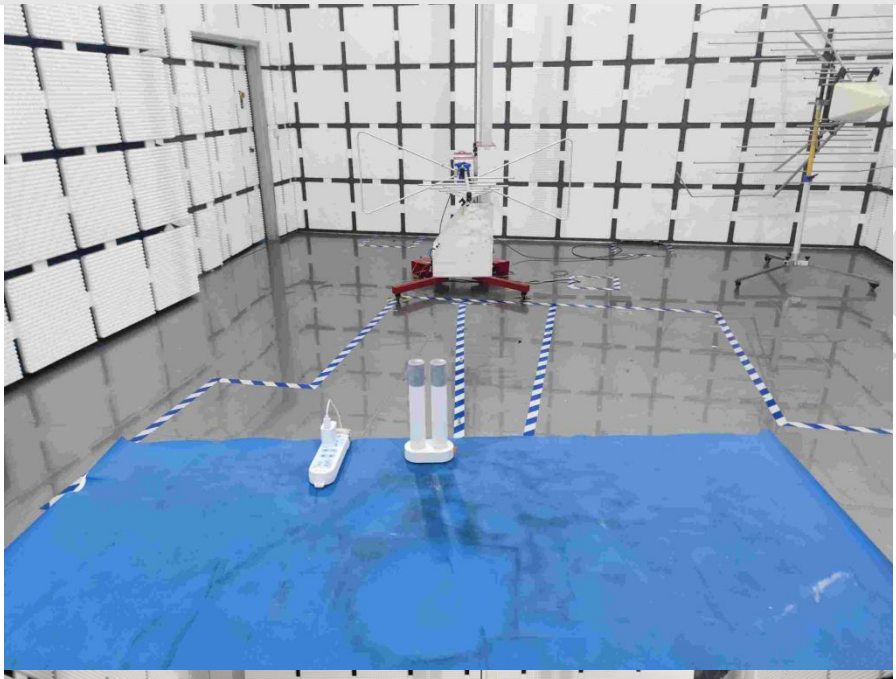


-20dB Bandwidth NVNT GFSK 2480MHz Ant1

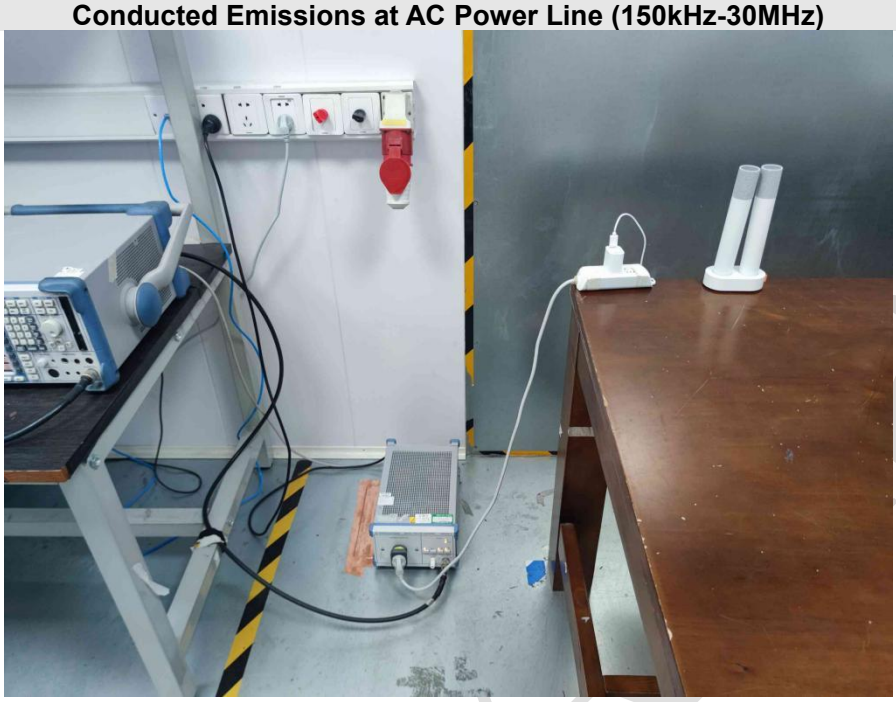


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

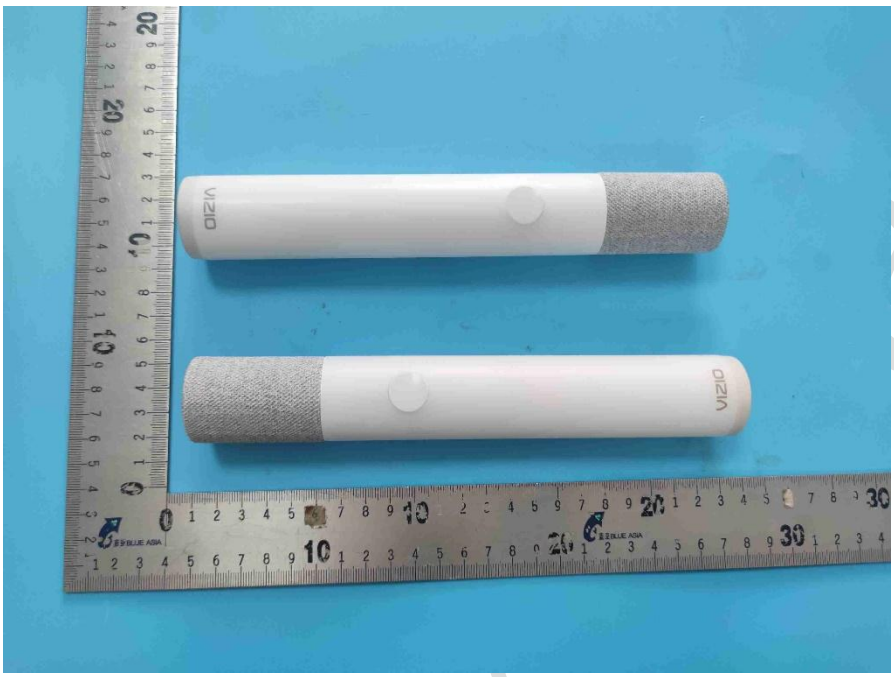
Radiated Emissions

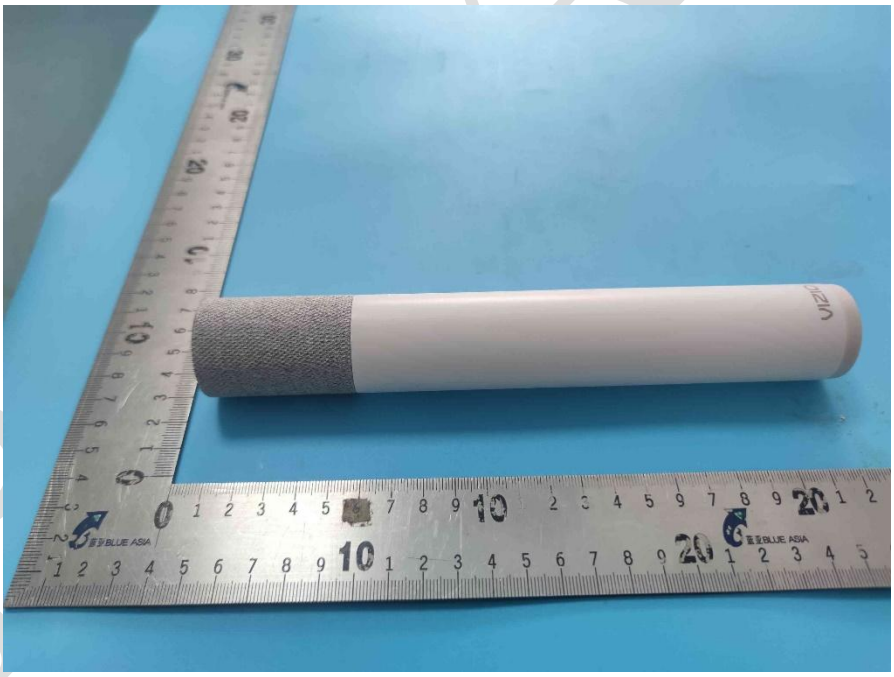


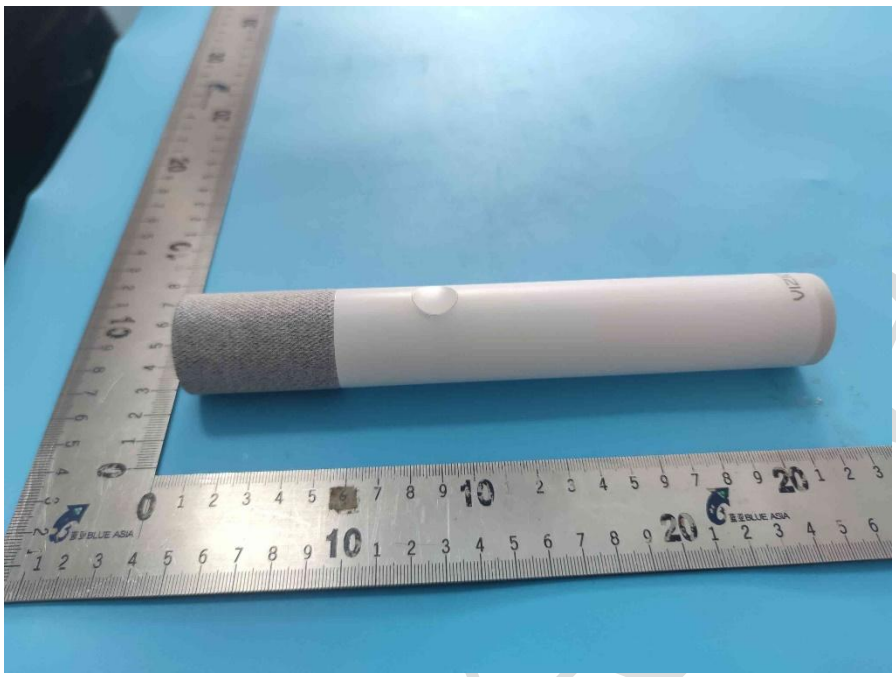
Conducted Emissions at AC Power Line (150kHz-30MHz)

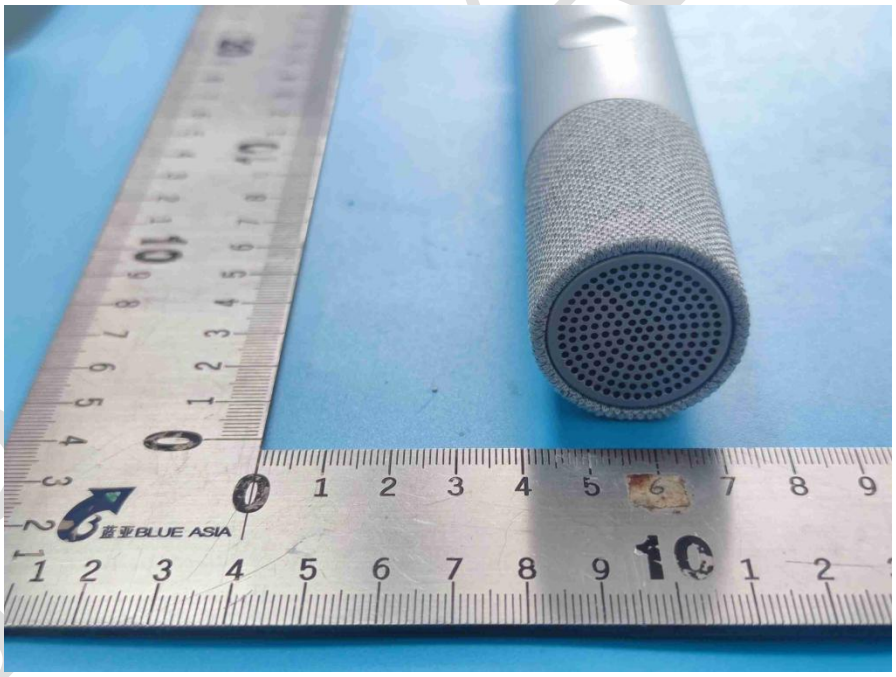


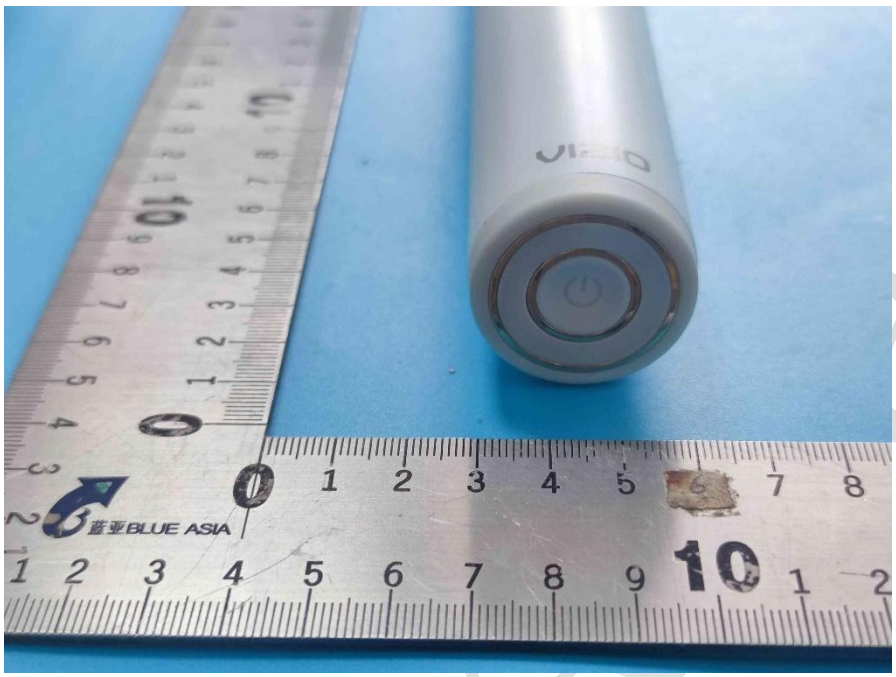
APPENDIX B: PHOTOGRAPHS OF EUT

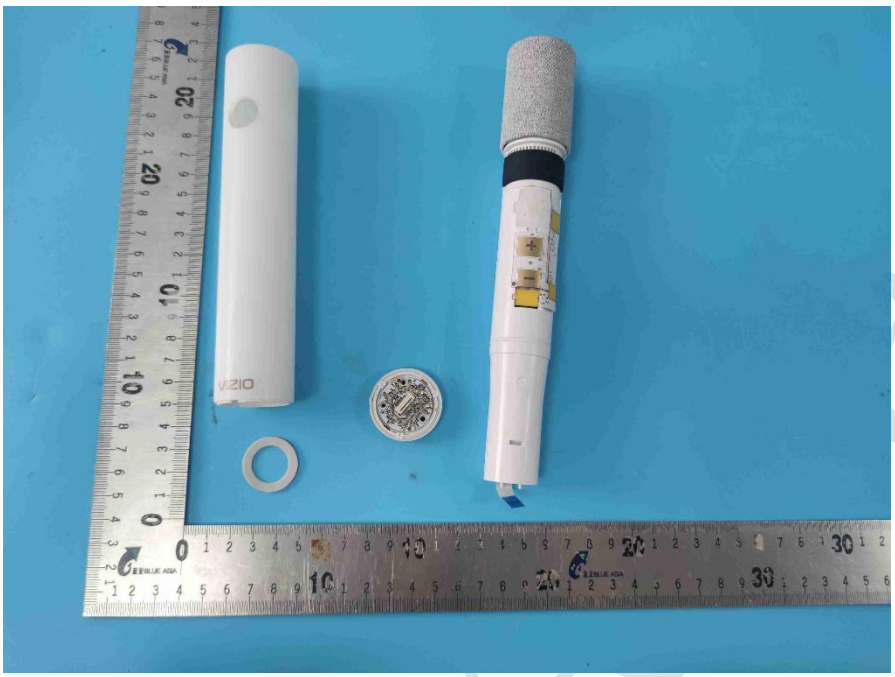


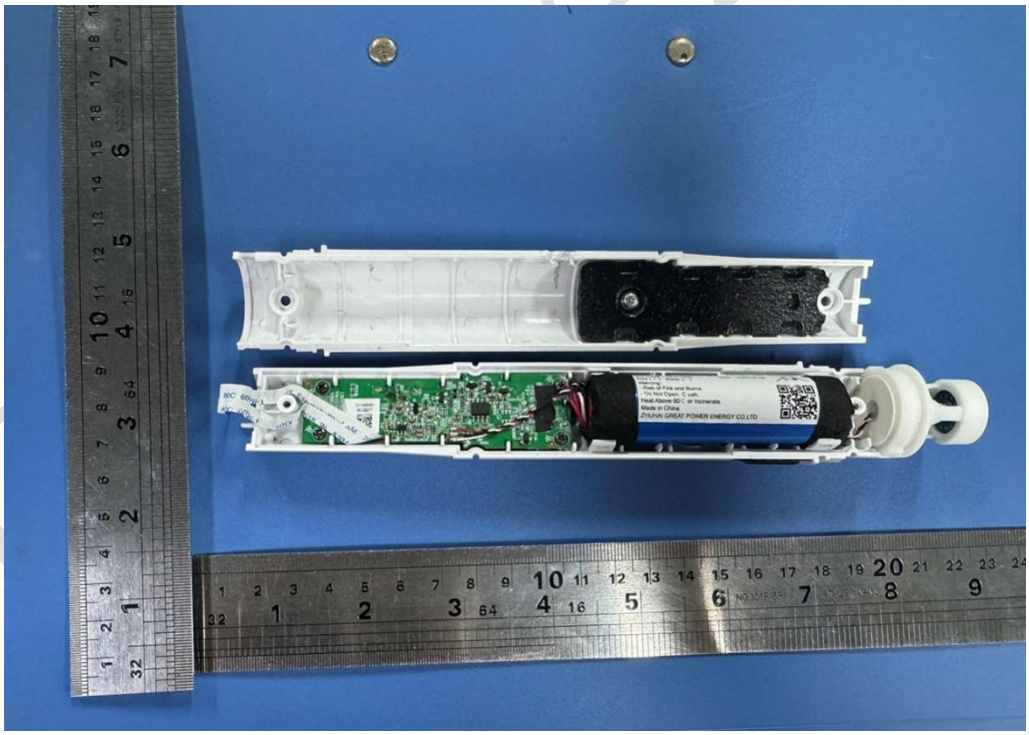


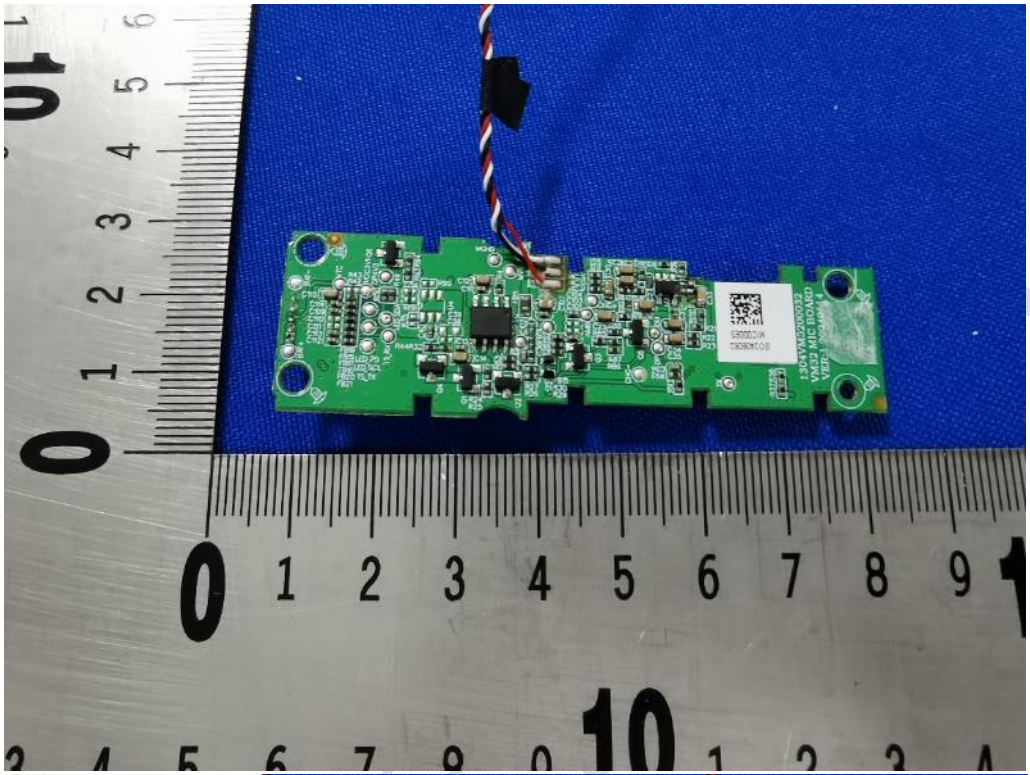


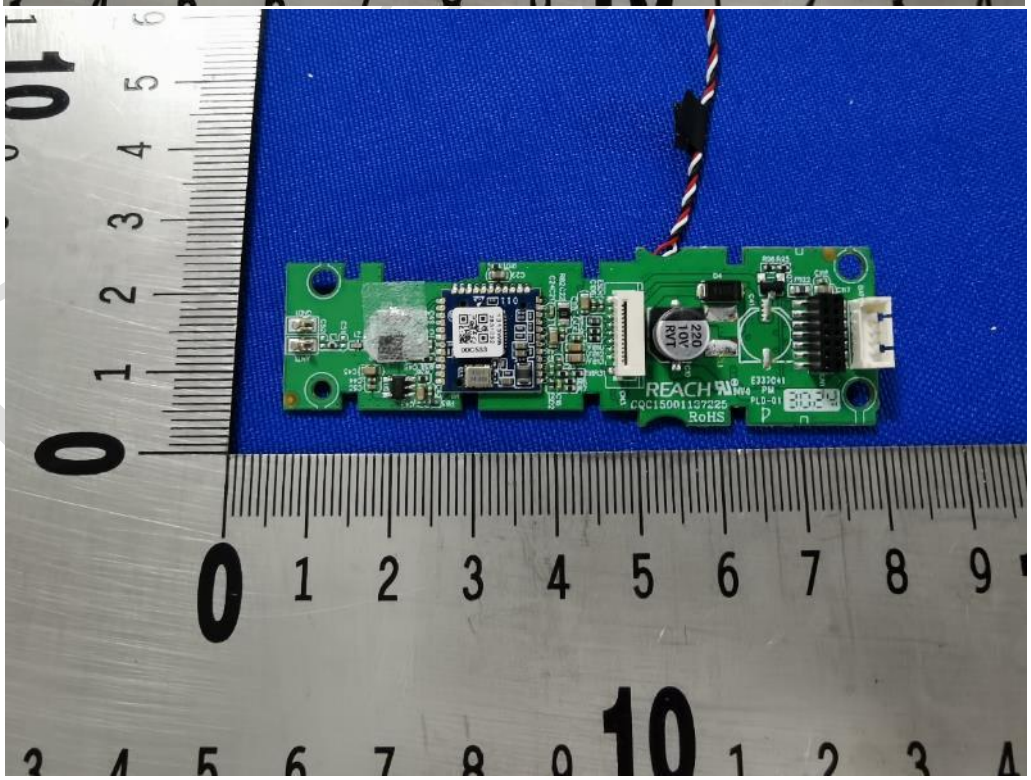


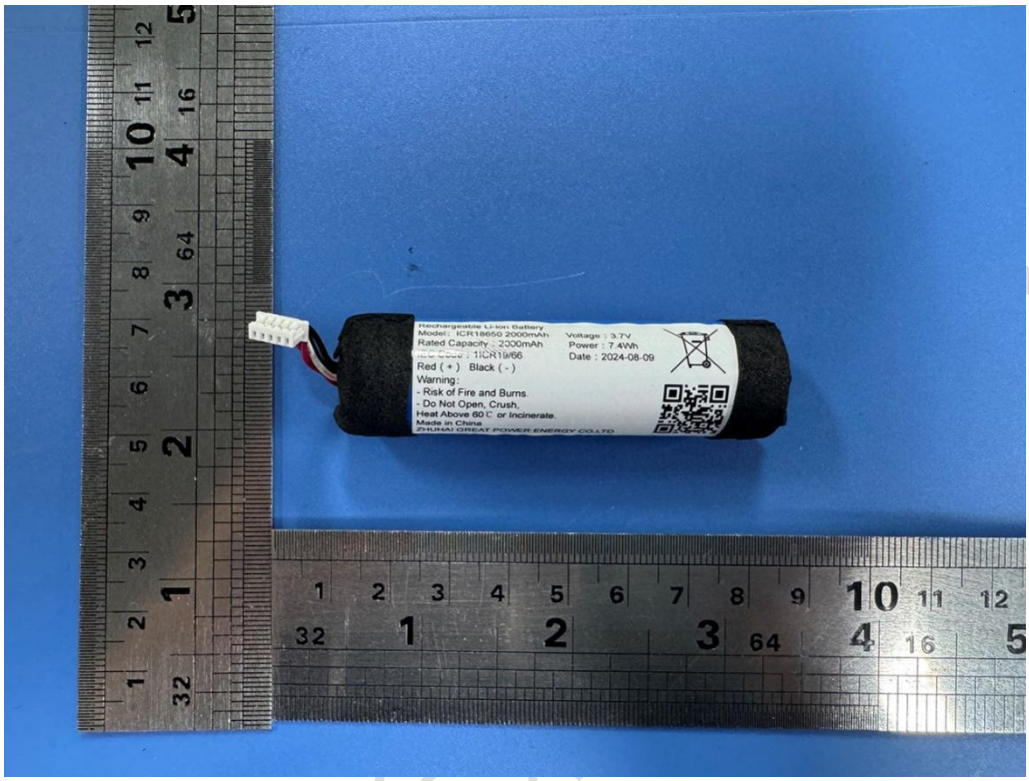




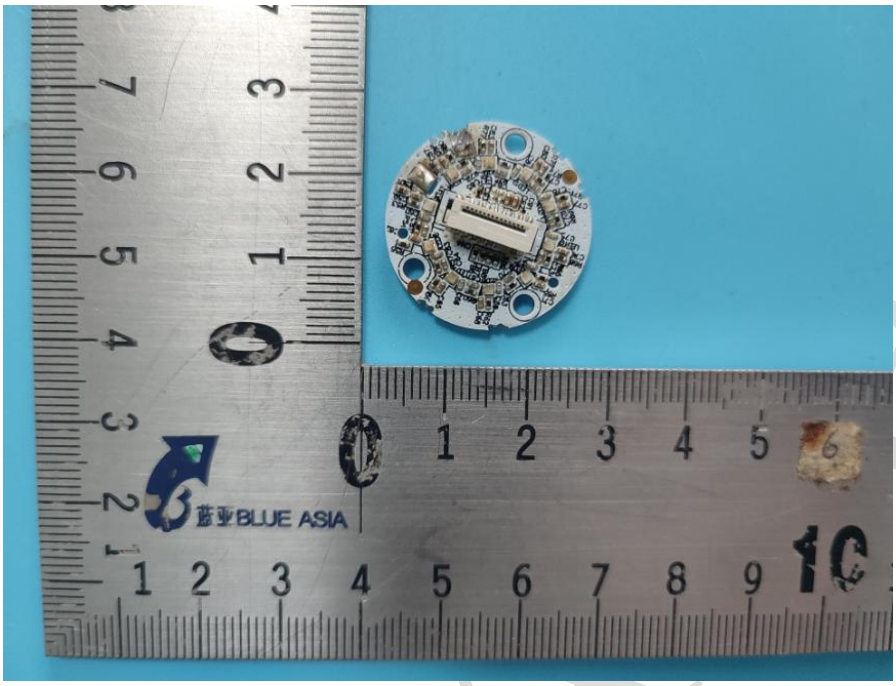


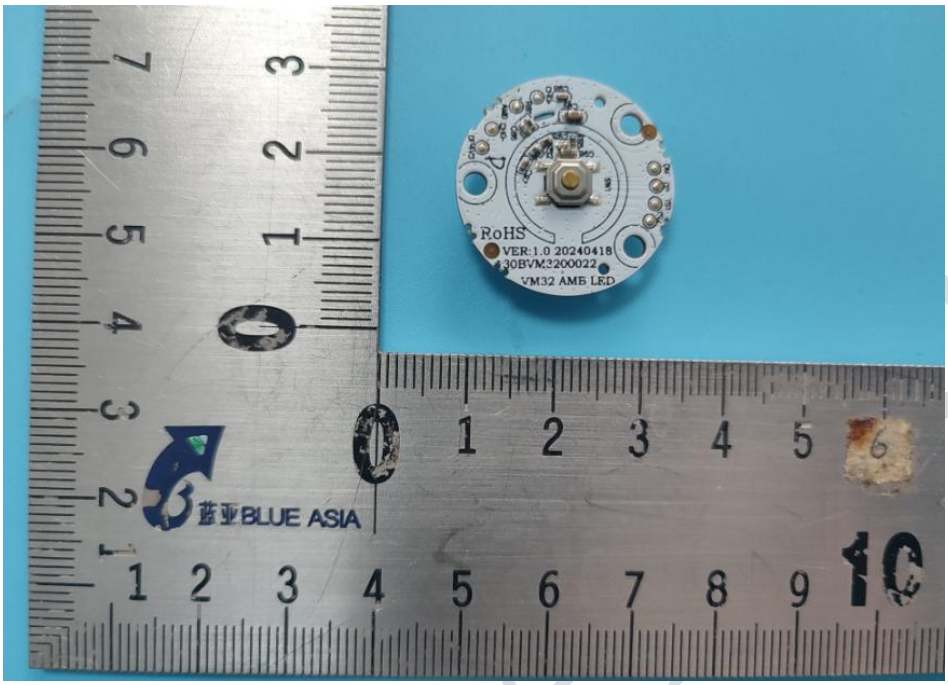


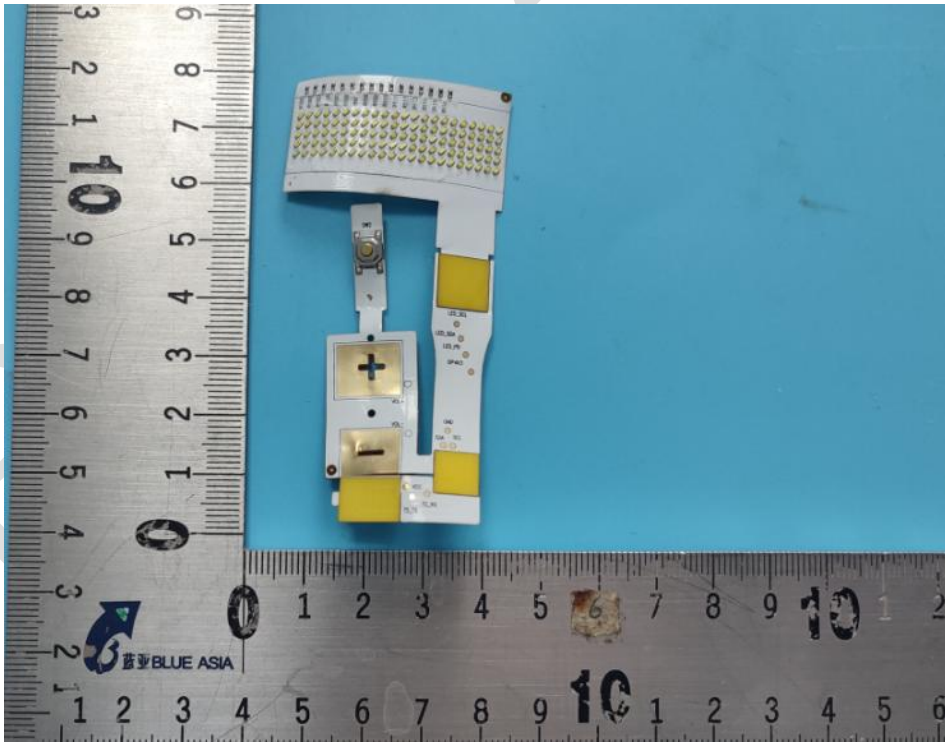



Rechargeable Li-ion Battery
Model: ICR18650 2000mAh
Rated Capacity: 2000mAh
Voltage: 3.7V
Power: 7.4Wh
Date: 2024-08-09
Red (+) Black (-)
Warning:
- Risk of Fire and Burns.
- Do Not Open, Crush,
Heat Above 60℃ or Incinerate.
Made in China
ZHUHAI GREAT POWER ENERGY CO.,LTD


YD VIZIO
TX FPC
A2
ANT




RoHS
VER:1.0 20240418
30BVM2200022
VM32 AMB LED
蓝亚BLUE ASIA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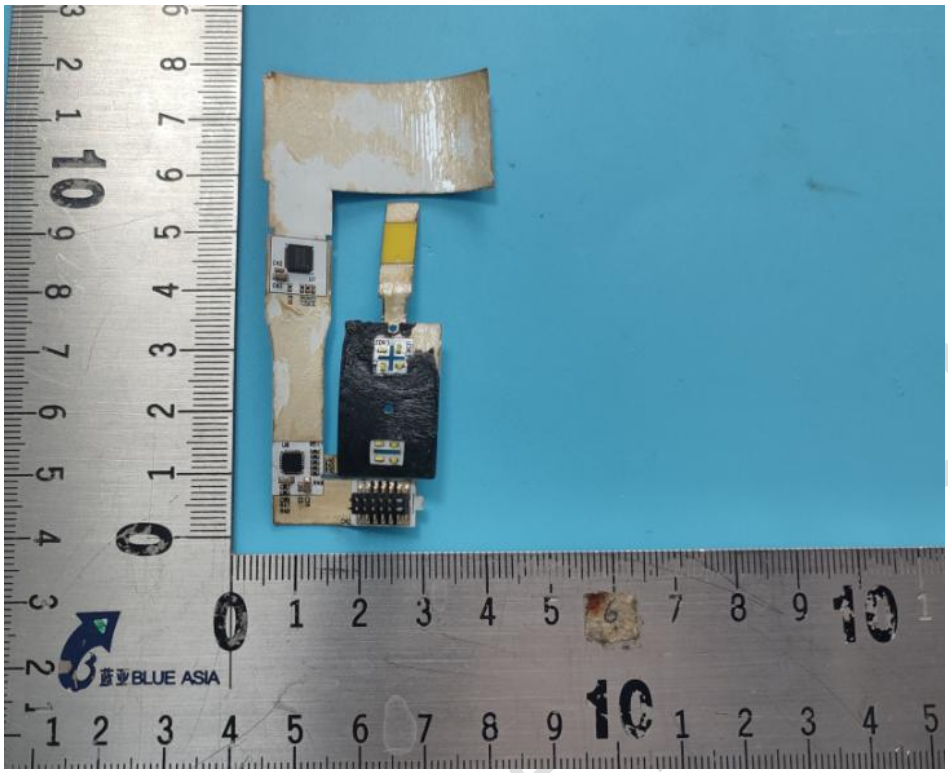

----END OF REPORT----

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