



Report No.: TW2601030-02E

Applicant: Chongqing Janxin Intelligent Instruments Co., Ltd.

Product: Bluetooth Control Module

Model No.: B113A-015-1

Trademark: PAEDATOR

Test Standards: FCC Part 15.247

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Terry Tang

Manager

Dated: March 11, 2026



Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

ISED —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

FCC Designation Number: CN1251

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: Chongqing Janxin Intelligent Instruments Co., Ltd.
Address: Xianfeng Industrial Zone, Xianfeng Town, Jiangjin District, Chongqing, China

1.3 Description of EUT

Product: Bluetooth Control Module
Manufacturer: Chongqing Janxin Intelligent Instruments Co., Ltd.
Address: Xianfeng Industrial Zone, Xianfeng Town, Jiangjin District, Chongqing, China
Trademark: PAEDATOR
Additional Trademark: N/A
Model Number: B113A-015-1
Additional Model Number: N/A
Hardware Version: V1.2
Software Version: V1.3
Serial No.: 202601230001
Type of Modulation: GFSK (Bluetooth Low Energy)
Frequency range: 2402-2480MHz
Channel Separation: 2MHz
Channel Number: 40
Rating: Input: DC8-60V
Antenna: Dipole Antenna with revers polarity antenna connector. The gain of the antennas is 4.13dBi (Get from the antenna specification provided the manufacturer)

1.4 Submitted Sample: 3 Samples

1.5 Test Duration

2026-01-18 to 2026-03-11

1.6 Test Uncertainty

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Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing



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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100253	2025-07-11	2026-07-10
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2025-07-11	2026-07-10
Loop Antenna	EMCO	6507	00078608	2025-07-17	2028-07-16
Spectrum	R&S	FSIQ26	100292	2025-07-11	2026-07-10
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2025-07-17	2028-07-16
Horn Antenna	R&S	BBHA 9120D	9120D-631	2025-07-17	2028-07-16
Power meter	Anritsu	ML2487A	6K00003613	2025-07-11	2026-07-10
Power sensor	Anritsu	MA2491A	32263	2025-07-11	2026-07-10
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2025-07-17	2028-07-16
9*6*6 Anechoic	--	--	N/A	2025-07-11	2028-07-10
EMI Test Receiver	RS	ESCS 30	834115/006	2025-07-11	2026-07-10
Spectrum	HP/Agilent	E4407B	MY50441392	2025-07-11	2026-07-10
Spectrum	RS	FSP	1164.4391.38	2025-07-11	2026-07-10
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2025-07-11	2026-07-10
RF Cable	Zhengdi	7m	--	2025-07-11	2026-07-10
Pre-Amplifier	Schwarebeck	BBV9743	#218	2025-07-11	2026-07-10
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2025-07-11	2026-07-10
LISN	SCHAFFNER	NNB42	00012	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	Pass	Complies
FCC Part 15, Paragraph 15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	Pass	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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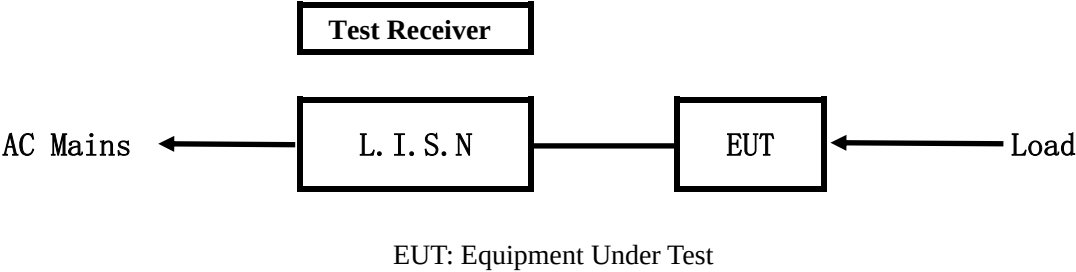
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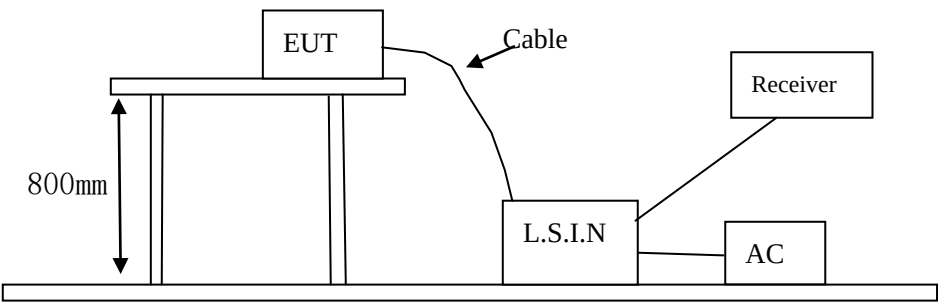
5.0 Power Line Conducted Emission Test

5.1 Schematics of the test



5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
Test Voltage: 120V~, 60Hz
Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
Bluetooth Control Module	Chongqing Janxin Intelligent Instruments Co., Ltd.	B113A-015-1	2BBZS-B113A01501

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	CDQ02ZM	Input: 100-240V~, 50/60Hz, 1.2A; Output: DC5V, 3A; DC9V, 3A; DC12V, 3A; DC15V, 3A; DC20V, 2.25A;

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

- Notes:
1. *Decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

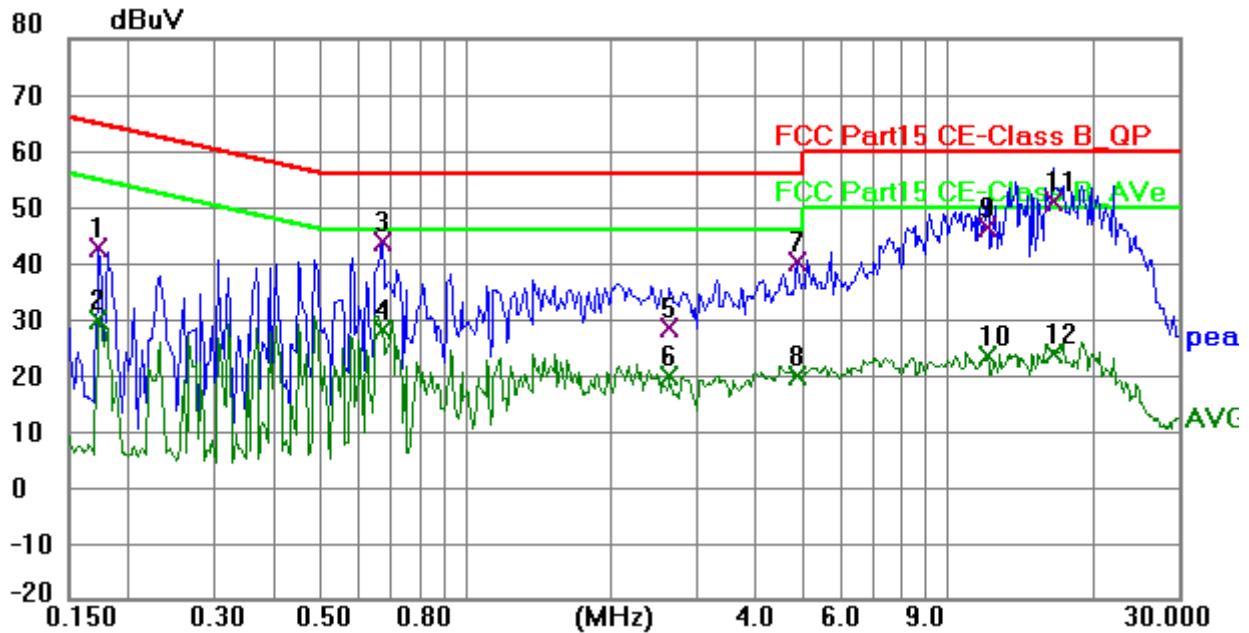
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1734	32.61	10.14	42.75	64.80	-22.05	QP	P
2	0.1734	19.74	10.14	29.88	54.80	-24.92	AVG	P
3	0.6687	33.47	10.38	43.85	56.00	-12.15	QP	P
4	0.6687	17.79	10.38	28.17	46.00	-17.83	AVG	P
5	2.6421	17.98	10.25	28.23	56.00	-27.77	QP	P
6	2.6421	9.45	10.25	19.70	46.00	-26.30	AVG	P
7	4.8603	30.04	10.25	40.29	56.00	-15.71	QP	P
8	4.8603	9.62	10.25	19.87	46.00	-26.13	AVG	P
9	12.0129	35.78	10.39	46.17	60.00	-13.83	QP	P
10	12.0129	12.93	10.39	23.32	50.00	-26.68	AVG	P
11	16.4979	40.54	10.44	50.98	60.00	-9.02	QP	P
12	16.4979	13.29	10.44	23.73	50.00	-26.27	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

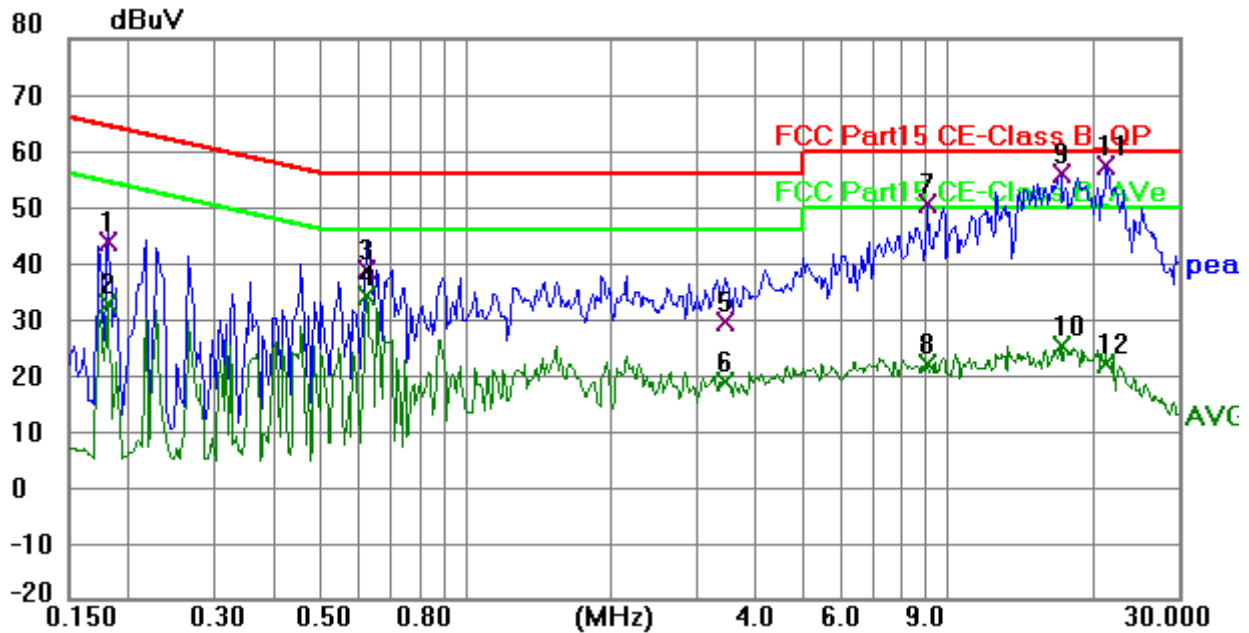
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1812	33.51	10.13	43.64	64.43	-20.79	QP	P
2	0.1812	22.50	10.13	32.63	54.43	-21.80	AVG	P
3	0.6219	28.38	10.38	38.76	56.00	-17.24	QP	P
4	0.6219	23.61	10.38	33.99	46.00	-12.01	AVG	P
5	3.4563	19.04	10.28	29.32	56.00	-26.68	QP	P
6	3.4563	8.60	10.28	18.88	46.00	-27.12	AVG	P
7	9.0996	40.21	10.32	50.53	60.00	-9.47	QP	P
8	9.0996	11.47	10.32	21.79	50.00	-28.21	AVG	P
9	17.1258	45.54	10.45	55.99	60.00	-4.01	QP	P
10	17.1258	14.65	10.45	25.10	50.00	-24.90	AVG	P
11	21.3534	46.74	10.47	57.21	60.00	-2.79	QP	P
12	21.3534	11.53	10.47	22.00	50.00	-28.00	AVG	P

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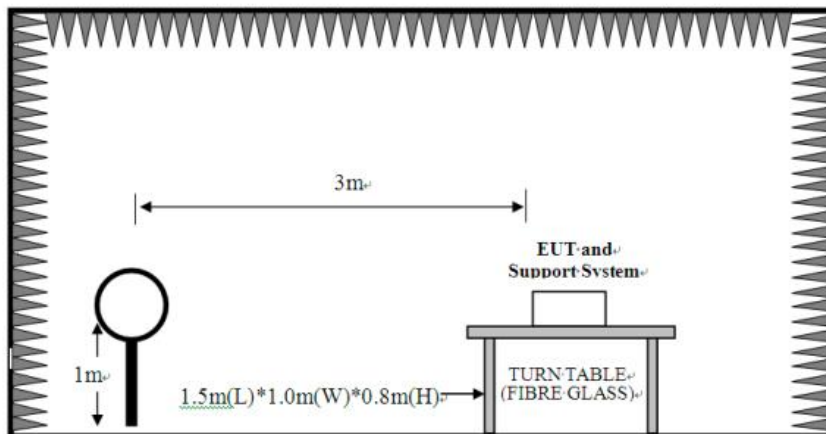
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a “QP” in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



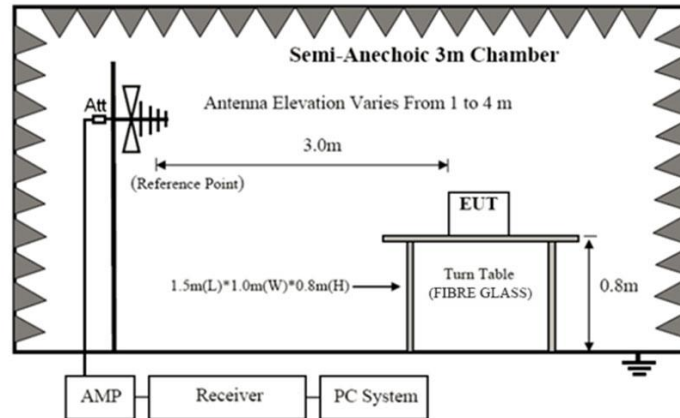
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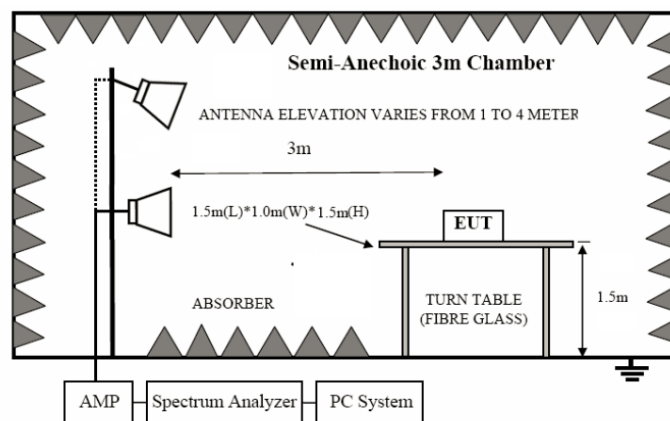
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



6.2 Configuration of the EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (μ V)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
 5. Worse case were recorded in the test report. BLE-1M was the worst case.
 6. For the radiated emissions from 30MHz-1000MHz, only the worst case was recorded and the middle channel (2440MHz) was the worst case.

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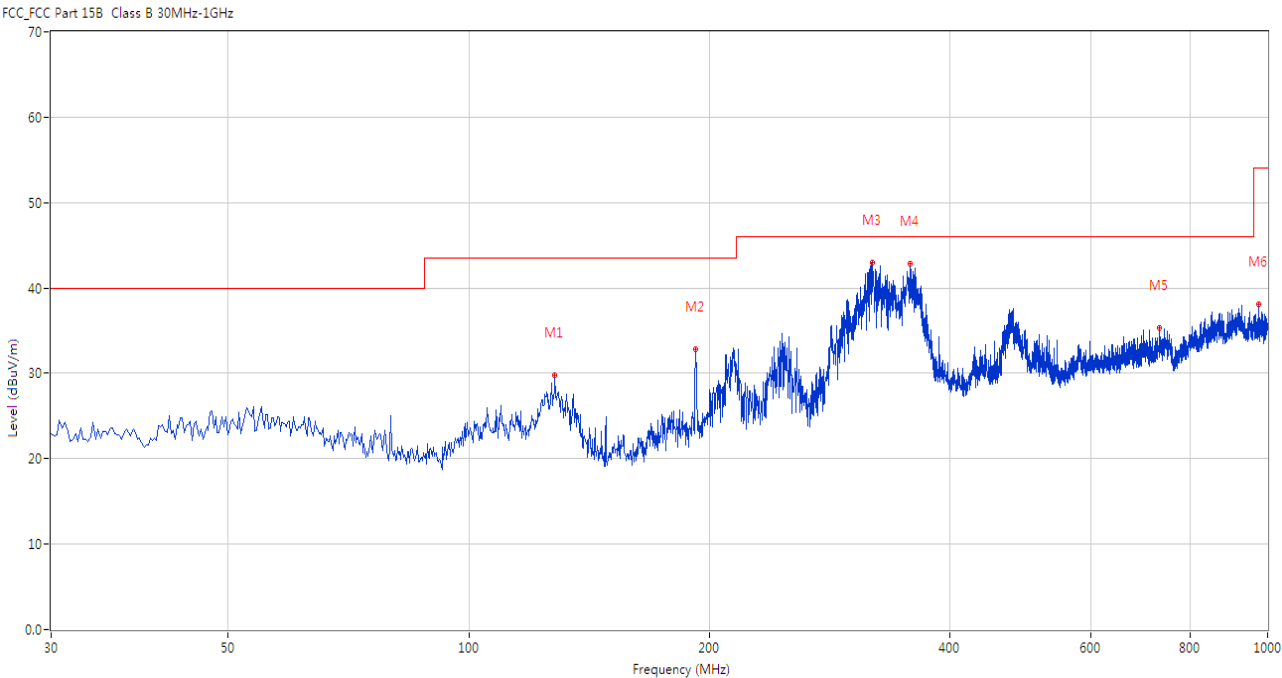


Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting
Test Channel: Middle (2440MHz)
Results: Pass

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	128.188	29.76	-10.82	43.5	13.74	Peak	359.00	100	Horizontal	Pass
2	192.434	32.80	-11.01	43.5	10.70	Peak	89.00	100	Horizontal	Pass
3	319.715	43.00	-7.37	47.0	4.00	Peak	248.00	100	Horizontal	Pass
4	357.051	42.85	-4.91	47.0	4.15	Peak	94.00	100	Horizontal	Pass
5	732.832	35.30	0.18	47.0	11.70	Peak	273.00	100	Horizontal	Pass
6	974.301	38.08	2.41	47.0	8.92	Peak	36.00	100	Horizontal	Pass

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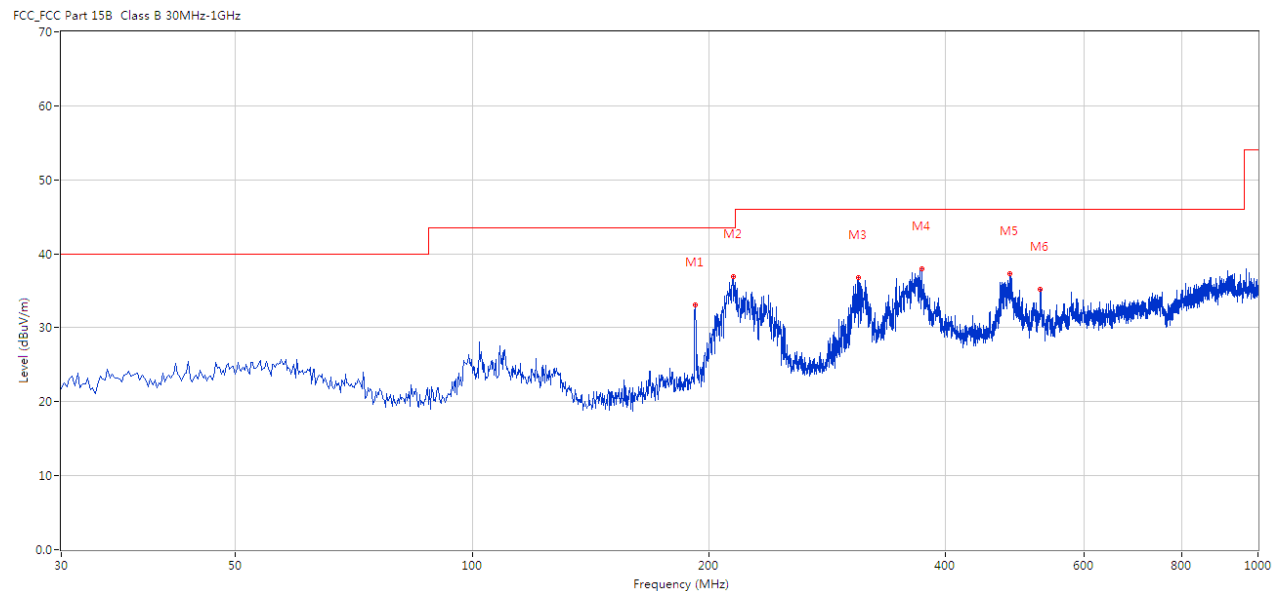


Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**
Test Channel: Middle (2440MHz)
Results: **Pass**

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	192.192	33.09	-11.03	43.5	10.41	Peak	205.00	100	Vertical	Pass
2	214.739	36.85	-9.95	43.5	6.65	Peak	156.00	100	Vertical	Pass
3	310.502	36.84	-7.28	46.0	9.16	Peak	166.00	100	Vertical	Pass
4	373.779	37.94	-5.12	46.0	8.06	Peak	201.00	100	Vertical	Pass
5	483.604	37.30	-4.52	46.0	8.70	Peak	323.00	100	Vertical	Pass
6	528.698	35.24	-3.51	46.0	10.76	Peak	309.00	100	Vertical	Pass

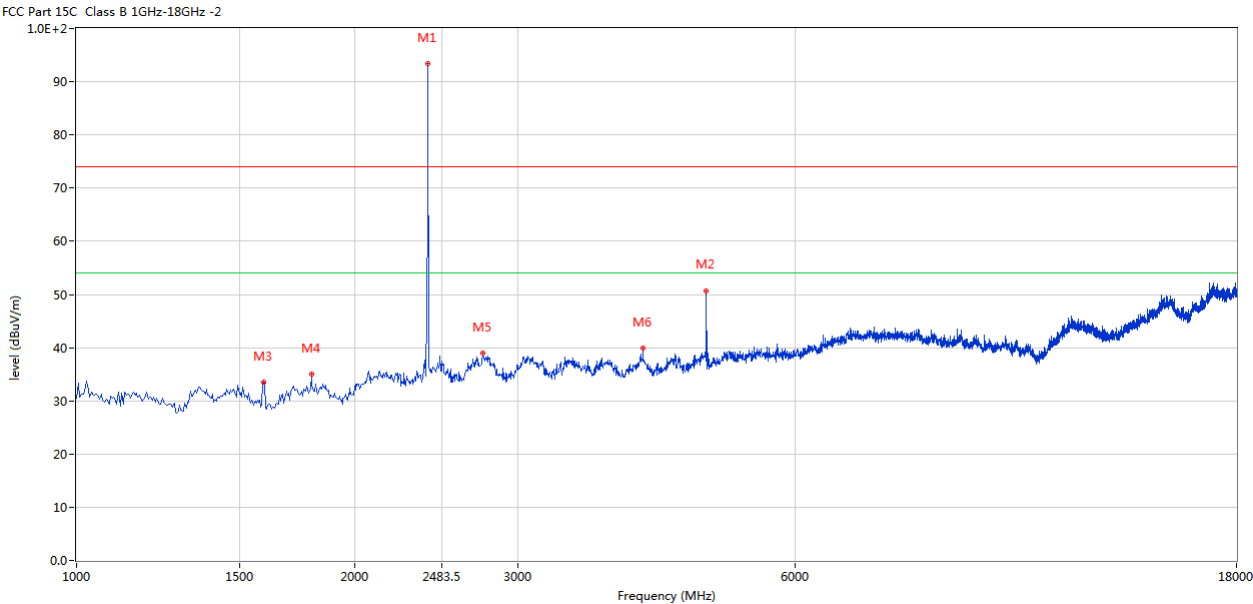
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Test Figures above 1GHz:

Please refer to the following test plots for details:

Low Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	93.35	-3.57	74.0	19.35	Peak	340.00	100	Horizontal	N/A
2	4803.750	50.69	3.13	74.0	-23.31	Peak	301.00	100	Horizontal	Pass
3	1595.000	33.53	-7.98	74.0	-40.47	Peak	233.00	100	Horizontal	Pass
4	1794.750	34.97	-6.86	74.0	-39.03	Peak	243.00	100	Horizontal	Pass
5	2755.250	38.94	-2.81	74.0	-35.06	Peak	258.00	100	Horizontal	Pass
6	4102.500	39.90	1.41	74.0	-34.10	Peak	218.00	100	Horizontal	Pass

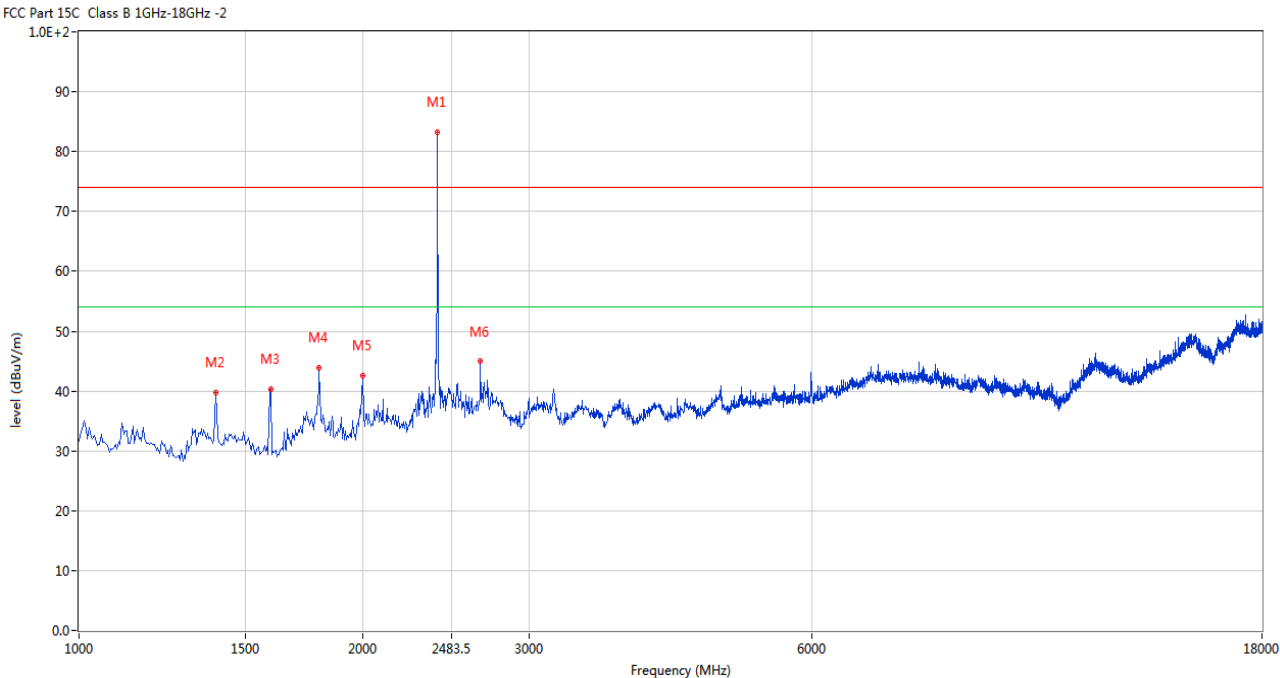
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Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	83.25	-3.57	74.0	9.25	Peak	10.00	100	Vertical	N/A
2	1395.250	39.67	-8.17	74.0	-34.33	Peak	322.00	100	Vertical	Pass
3	1599.250	40.33	-7.97	74.0	-33.67	Peak	52.00	100	Vertical	Pass
4	1799.000	43.93	-6.83	74.0	-30.07	Peak	271.00	100	Vertical	Pass
5	1998.750	42.50	-5.12	74.0	-31.50	Peak	33.00	100	Vertical	Pass
6	2666.000	45.02	-3.08	74.0	-28.98	Peak	332.00	100	Vertical	Pass

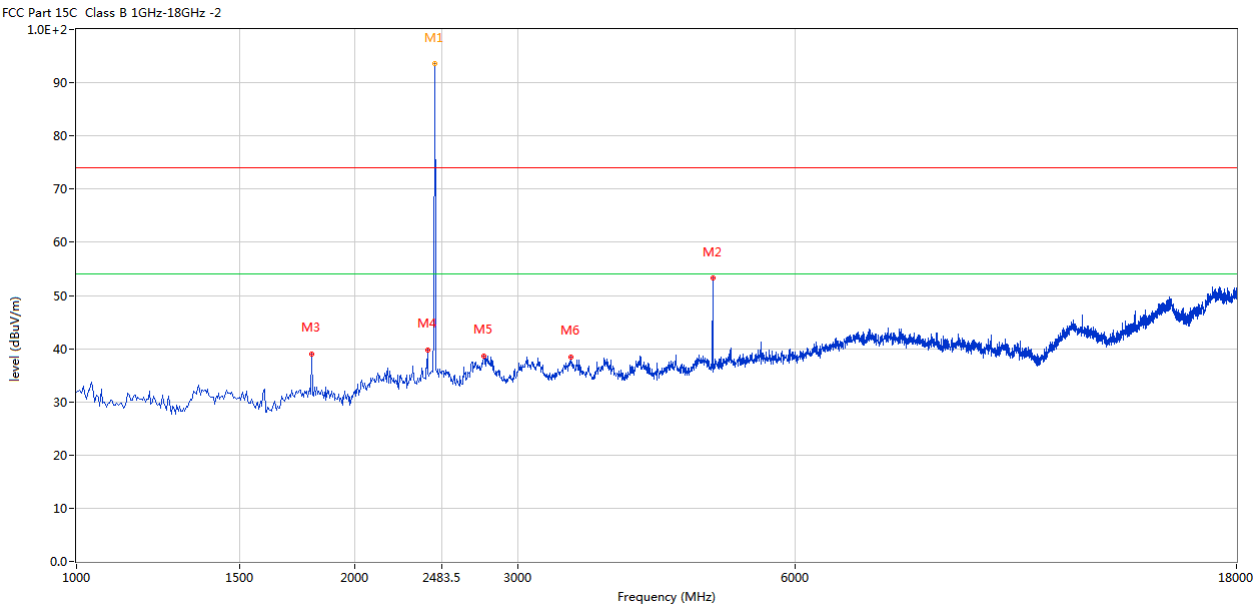
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Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	93.64	-3.57	74.0	19.64	Peak	320.00	100	Horizontal	N/A
2	4880.250	53.23	3.20	74.0	-20.77	Peak	320.00	100	Horizontal	Pass
3	1799.000	38.98	-6.83	74.0	-35.02	Peak	248.00	100	Horizontal	Pass
4	2398.250	39.80	-3.56	74.0	-34.20	Peak	270.00	100	Horizontal	Pass
5	2759.500	38.65	-2.80	74.0	-35.35	Peak	276.00	100	Horizontal	Pass
6	3431.000	38.45	-1.57	74.0	-35.55	Peak	303.00	100	Horizontal	Pass

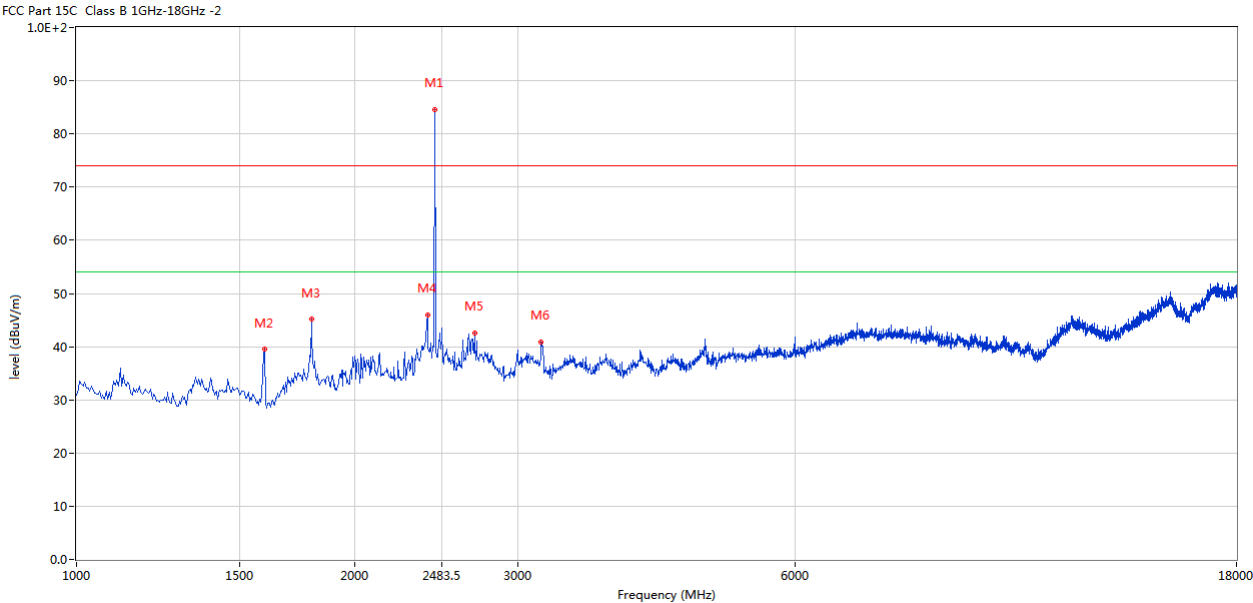
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Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	84.60	-3.57	74.0	10.60	Peak	12.00	100	Vertical	N/A
2	1599.250	39.55	-7.97	74.0	-34.45	Peak	61.00	100	Vertical	Pass
3	1794.750	45.14	-6.86	74.0	-28.86	Peak	310.00	100	Vertical	Pass
4	2398.250	45.93	-3.56	74.0	-28.07	Peak	255.00	100	Vertical	Pass
5	2695.750	42.52	-2.97	74.0	-31.48	Peak	360.00	100	Vertical	Pass
6	3184.500	40.89	-2.00	74.0	-33.11	Peak	239.00	100	Vertical	Pass

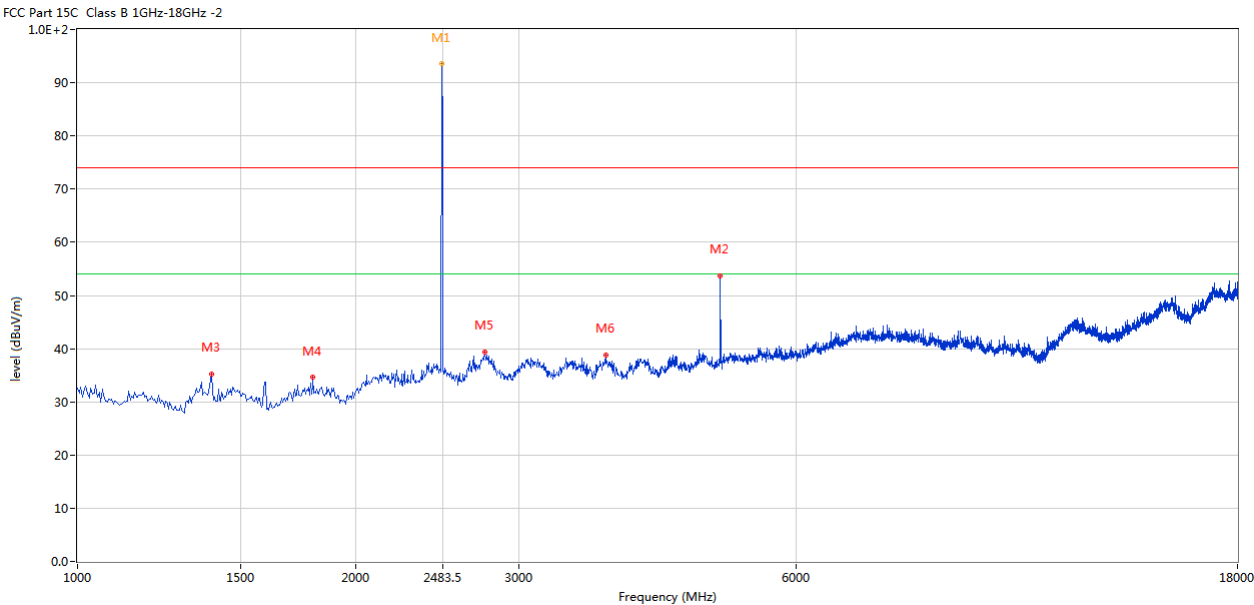
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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	93.68	-3.57	74.0	19.68	Peak	329.00	100	Horizontal	N/A
2	4961.000	53.68	3.36	74.0	-20.32	Peak	329.00	100	Horizontal	Pass
3	1369.750	31.56	-8.19	74.0	-42.44	Peak	249.00	100	Horizontal	Pass
4	1799.000	34.68	-6.83	74.0	-39.32	Peak	249.00	100	Horizontal	Pass
5	2759.500	39.40	-2.80	74.0	-34.60	Peak	312.00	100	Horizontal	Pass
6	3728.500	38.79	-0.07	74.0	-35.21	Peak	254.00	100	Horizontal	Pass

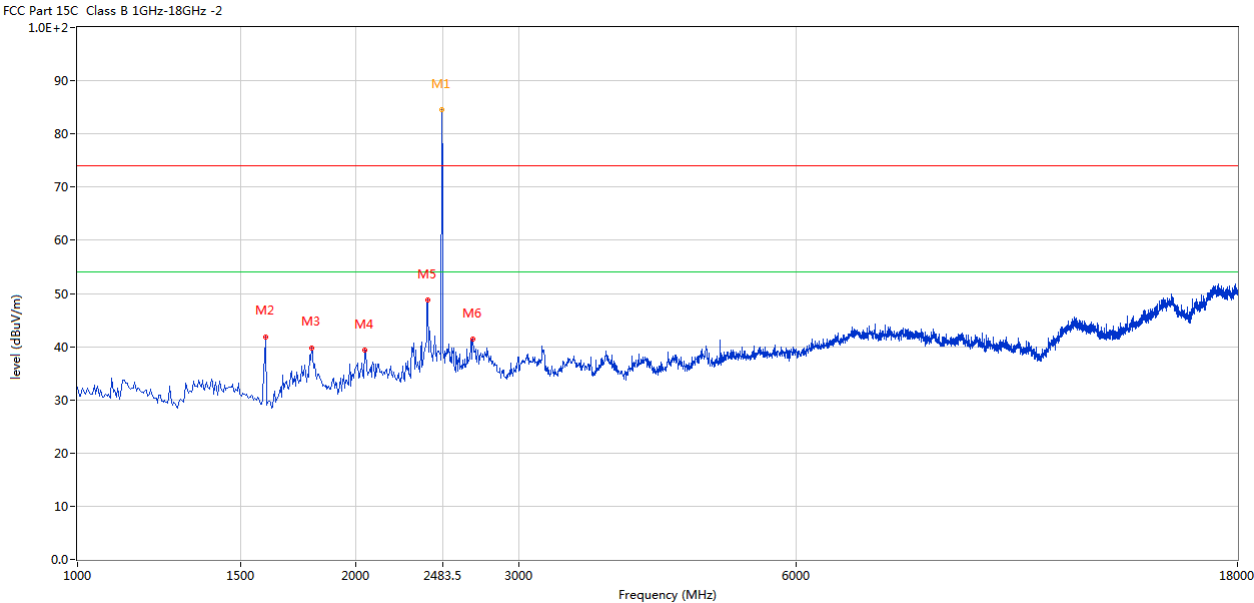
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	84.65	-3.57	74.0	10.65	Peak	294.00	100	Vertical	N/A
2	1599.250	41.82	-7.97	74.0	-32.18	Peak	135.00	100	Vertical	Pass
3	1790.500	39.67	-6.89	74.0	-34.33	Peak	259.00	100	Vertical	Pass
4	2045.500	39.35	-4.72	74.0	-34.65	Peak	16.00	100	Vertical	Pass
5	2394.000	48.72	-3.55	74.0	-25.28	Peak	259.00	100	Vertical	Pass
6	2678.750	41.38	-3.04	74.0	-32.62	Peak	312.00	100	Vertical	Pass

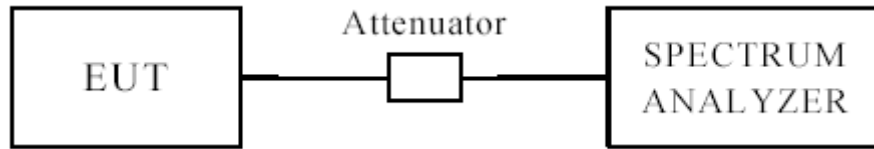
- Note: 1. Level = Reading + AF + Cable - Preamp
2. For the radiated emissions above 18G, it is the floor noise.
3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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LE-1M

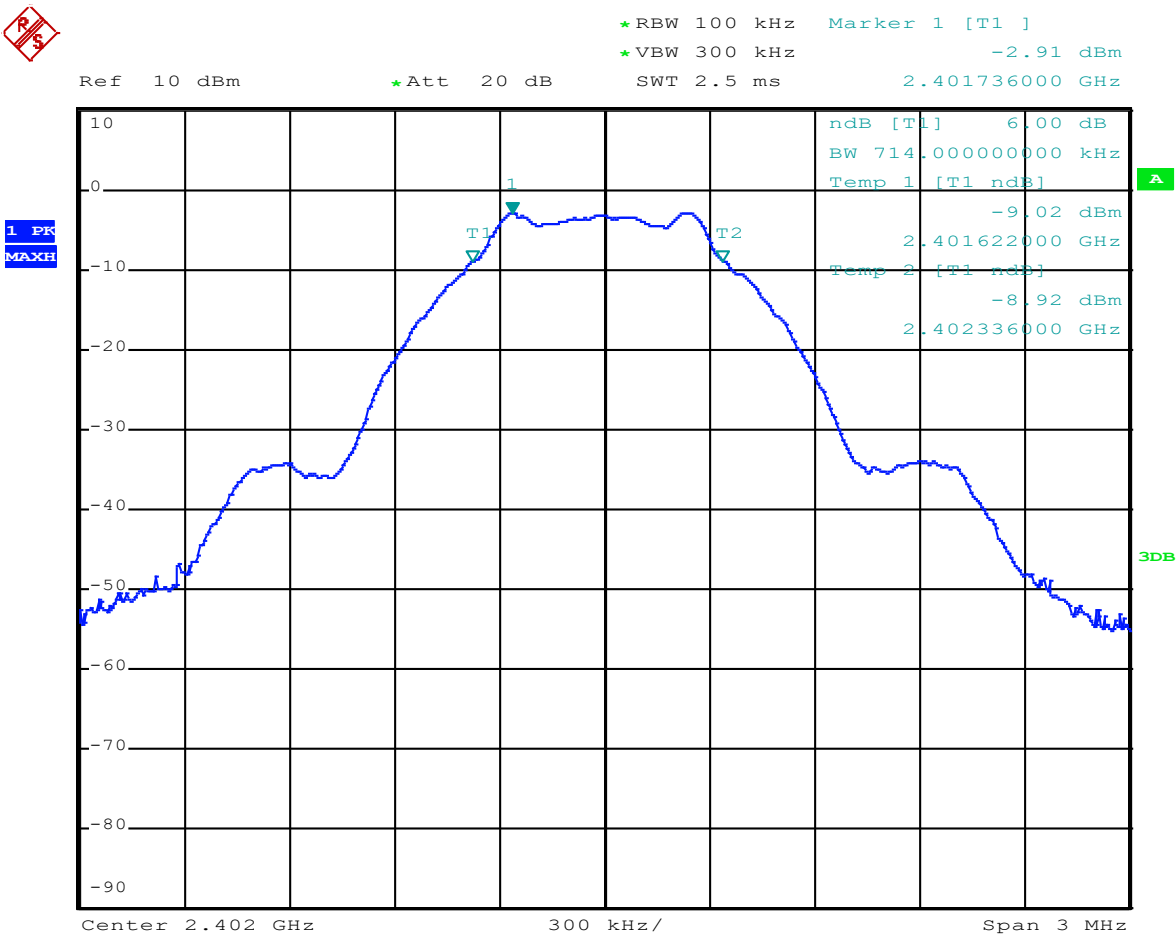
EUT	Bluetooth Control Module		Model	B113A-015-1
Mode	Keep Transmitting		Input Voltage	DC12V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail
Low	2402	714	500	Pass
Middle	2440	714	500	Pass
High	2480	708	500	Pass

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Test Figure:

1. Condition: Low Channel

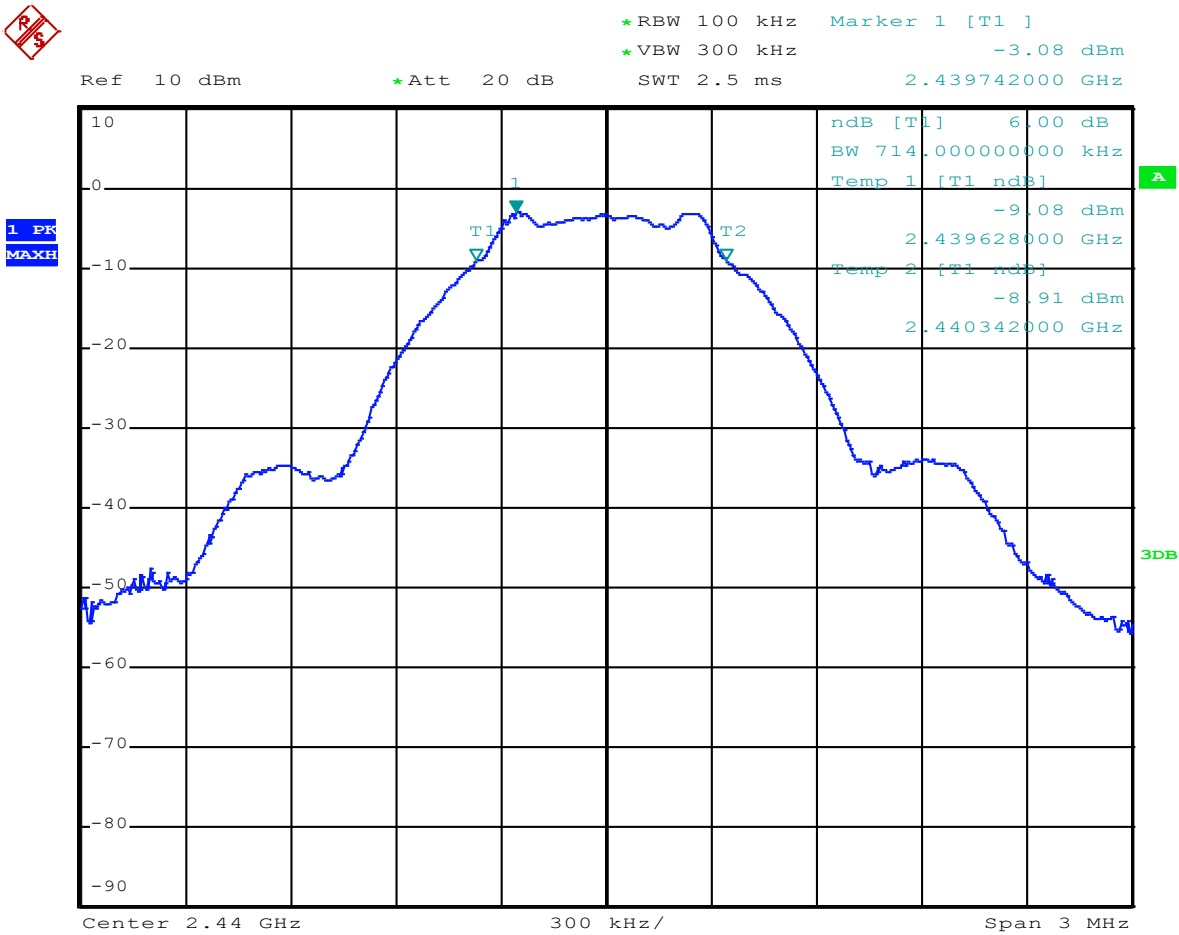


Date: 10.MAR.2026 17:34:17

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2. Condition: Middle Channel

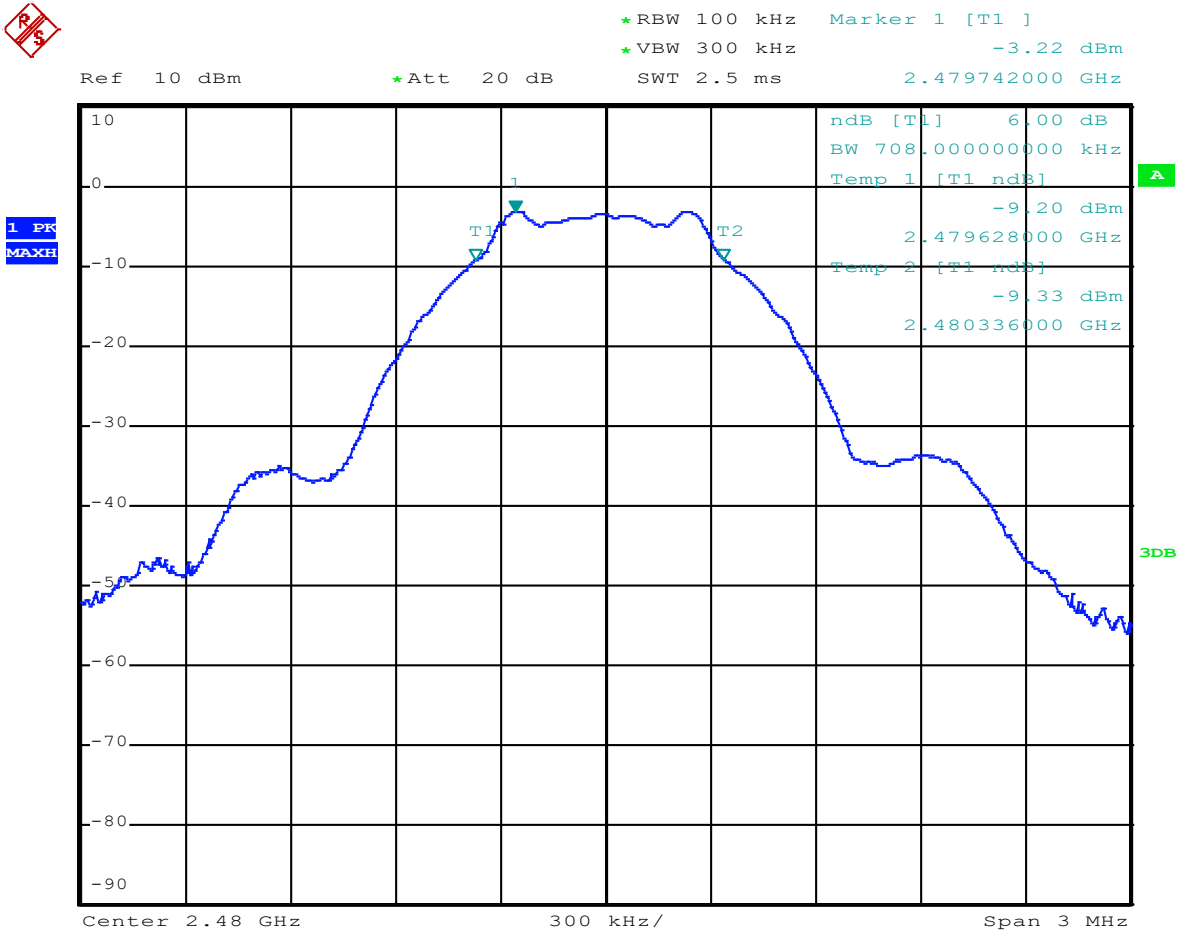


Date: 10.MAR.2026 17:36:44

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3. High Channel



Date: 10.MAR.2026 17:37:15

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LE-2M

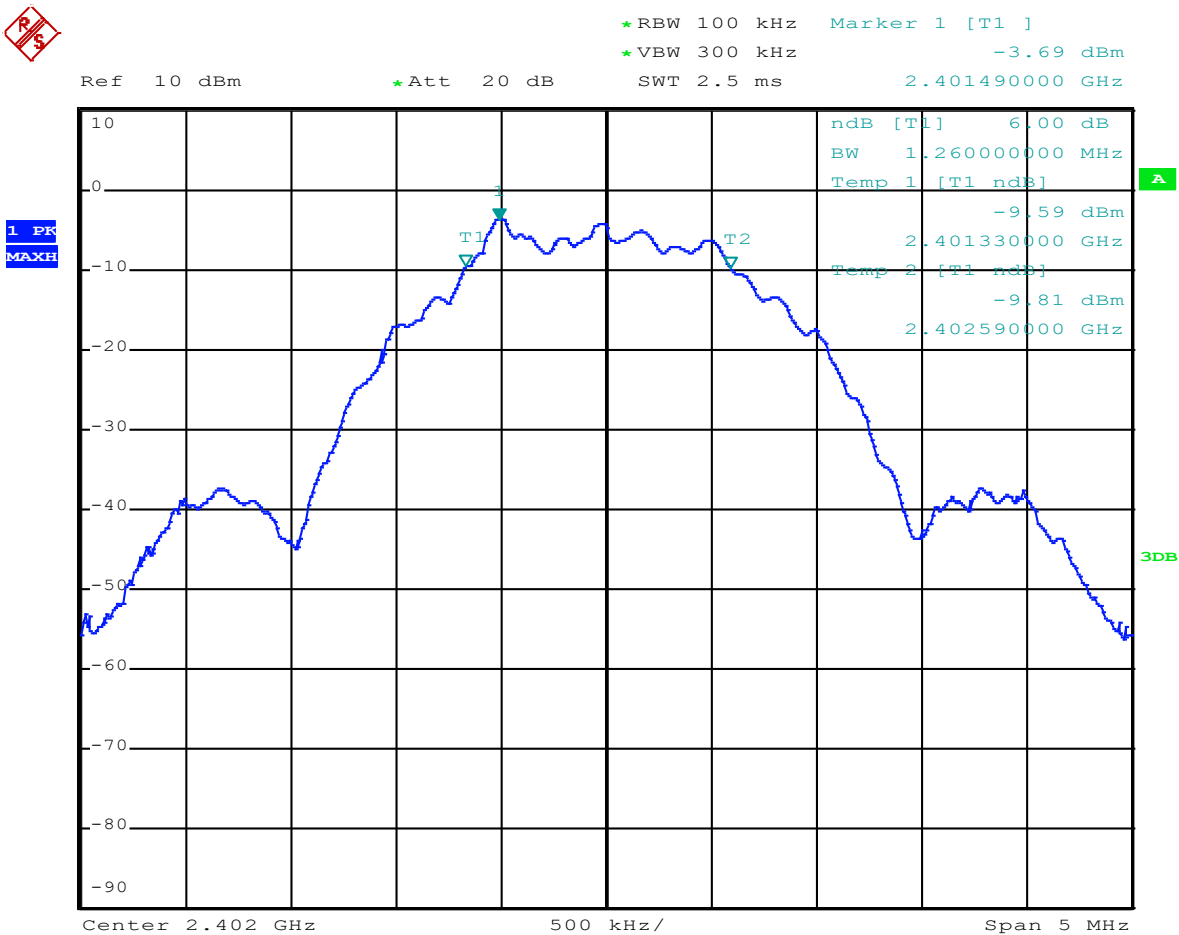
EUT	Bluetooth Control Module		Model	B113A-015-1	
Mode	Keep Transmitting		Input Voltage	DC12V	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail	
Low	2402	1260	500	Pass	
Middle	2440	1260	500	Pass	
High	2480	1260	500	Pass	

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Test Figure:

1. Condition: Low Channel

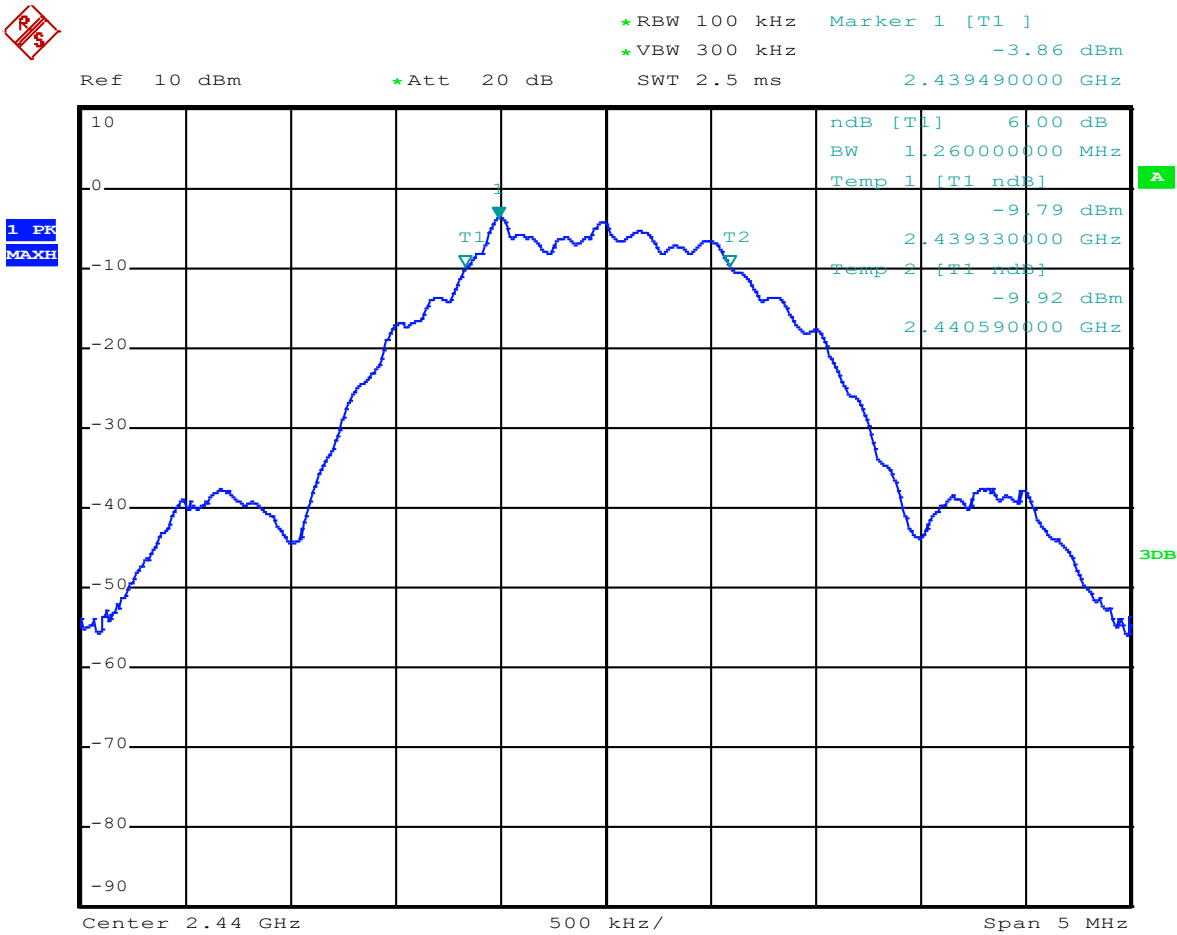


Date: 10.MAR.2026 17:46:25

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2. Condition: Middle Channel

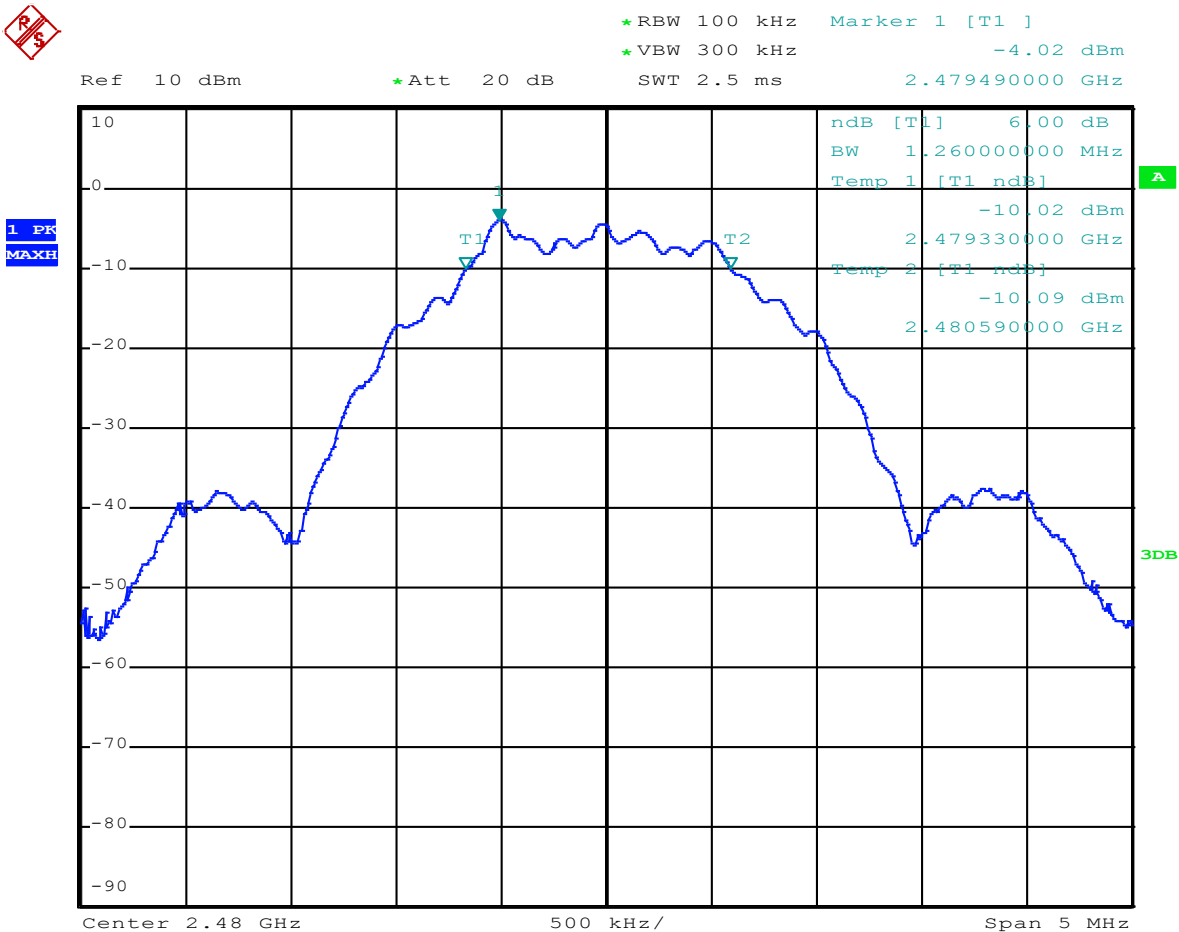


Date: 10.MAR.2026 17:47:06

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3. High Channel



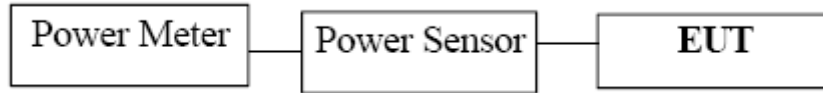
Date: 10.MAR.2026 17:48:15

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8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the Peak power were measured.

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8.4 Test Results

LE-1M

EUT		Bluetooth Control Module		Model		B113A-015-1	
Mode		Keep Transmitting		Input Voltage		DC12V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)			Peak Power Limit (dBm)	Pass/ Fail	
		Peak					
Low	2402	-2.36			30	Pass	
Middle	2440	-2.50			30	Pass	
High	2480	-2.69			30	Pass	

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

LE-2M

EUT		Bluetooth Control Module		Model		B113A-015-1	
Mode		Keep Transmitting		Input Voltage		DC12V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)			Peak Power Limit (dBm)	Pass/ Fail	
		Peak					
Low	2402	-2.57			30	Pass	
Middle	2440	-2.73			30	Pass	
High	2480	-2.92			30	Pass	

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

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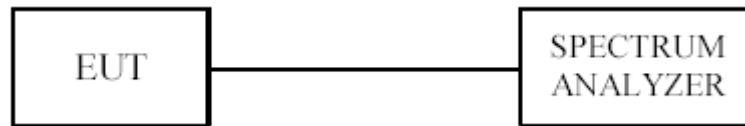
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW $\geq$ 30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be $\leq$ 8 dBm/3kHz.

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9.4 Test Result

LE-1M

EUT	Bluetooth Control Module			Model	B113A-015-1
Mode	Keep Transmitting			Input Voltage	DC12V
Temperature	24 deg. C,			Humidity	56% RH
Channel	Peak Power Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/10kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail
Low	-12.22	0.2	-12.02	8	Pass
Middle	-12.53	0.2	-12.33	8	Pass
High	-12.60	0.2	-12.40	8	Pass

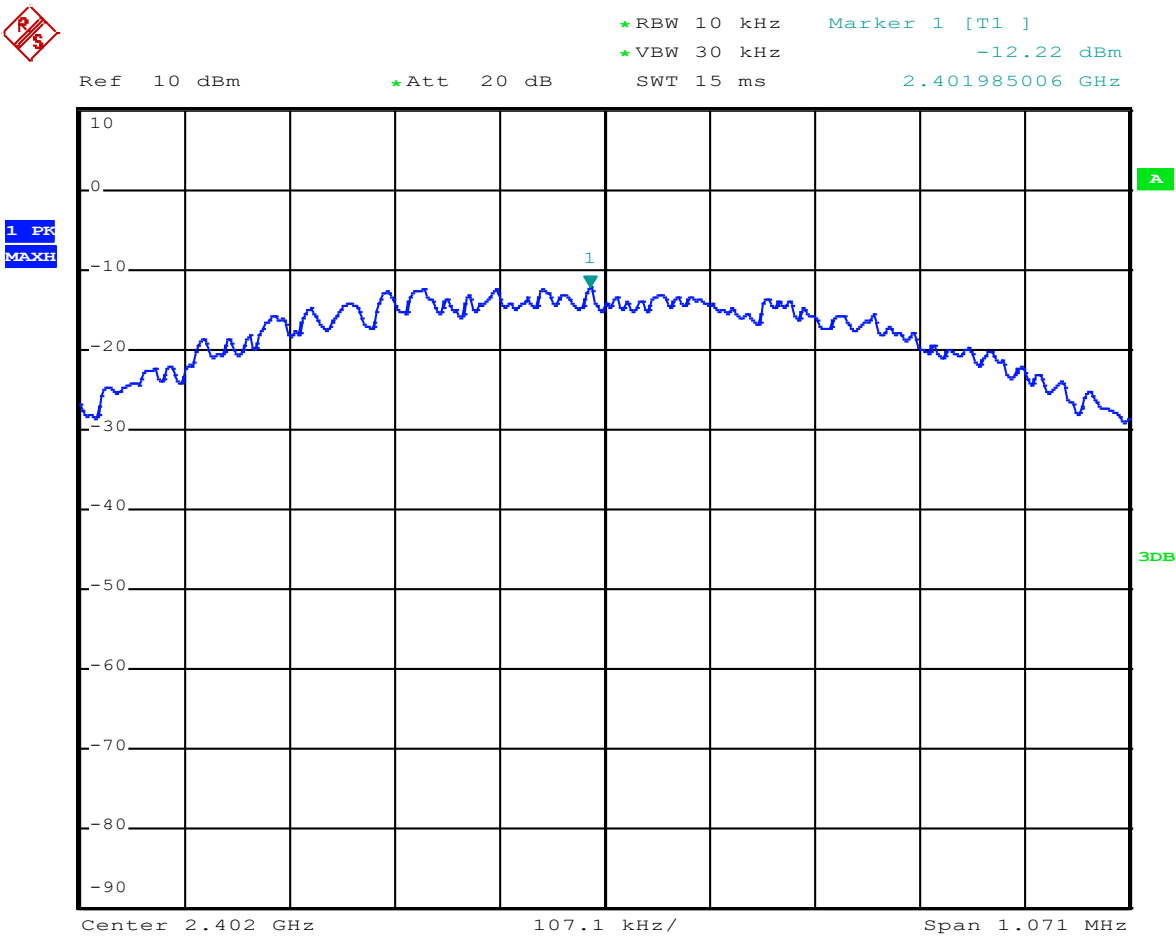
Note: The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss}$$



Test Figure:

1. Condition: Low Channel

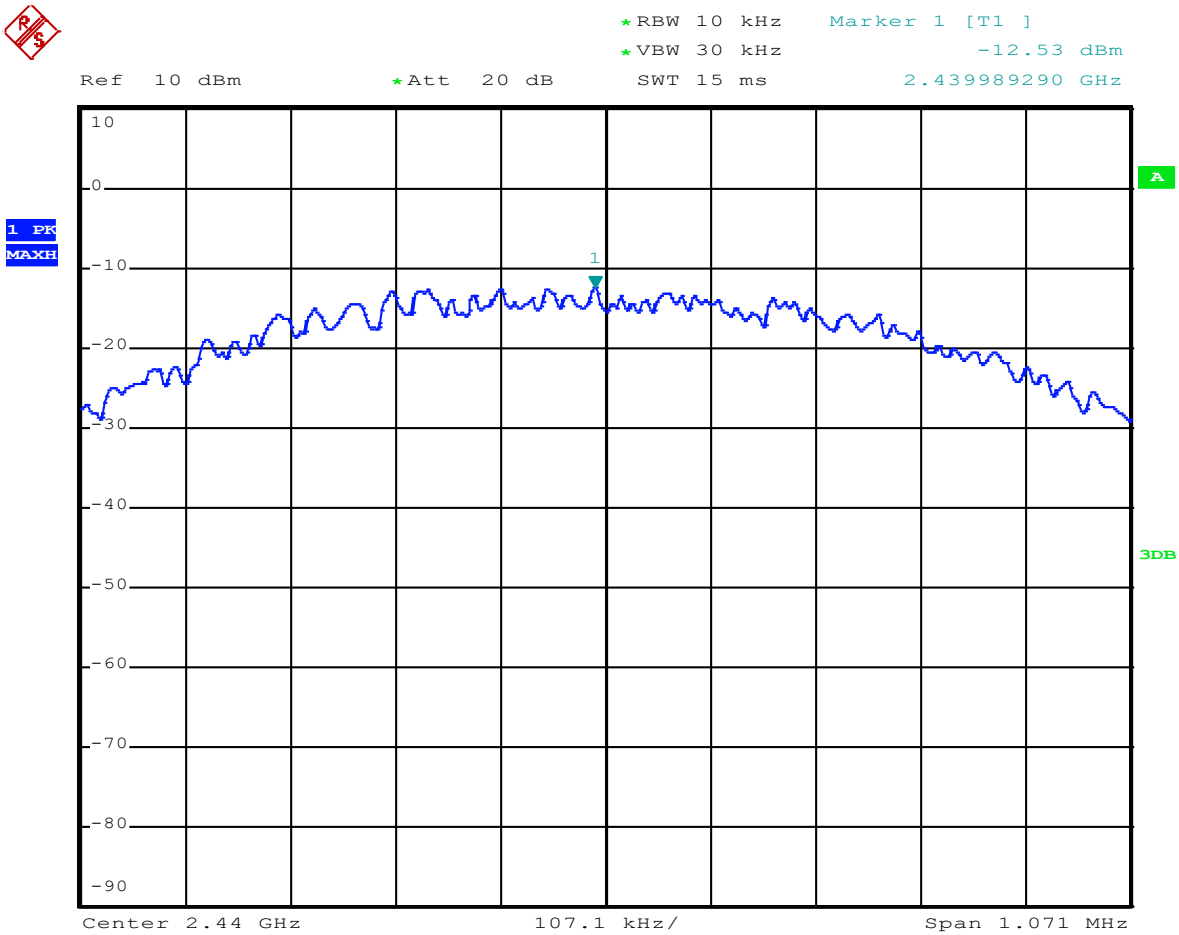


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2. Condition: Middle Channel

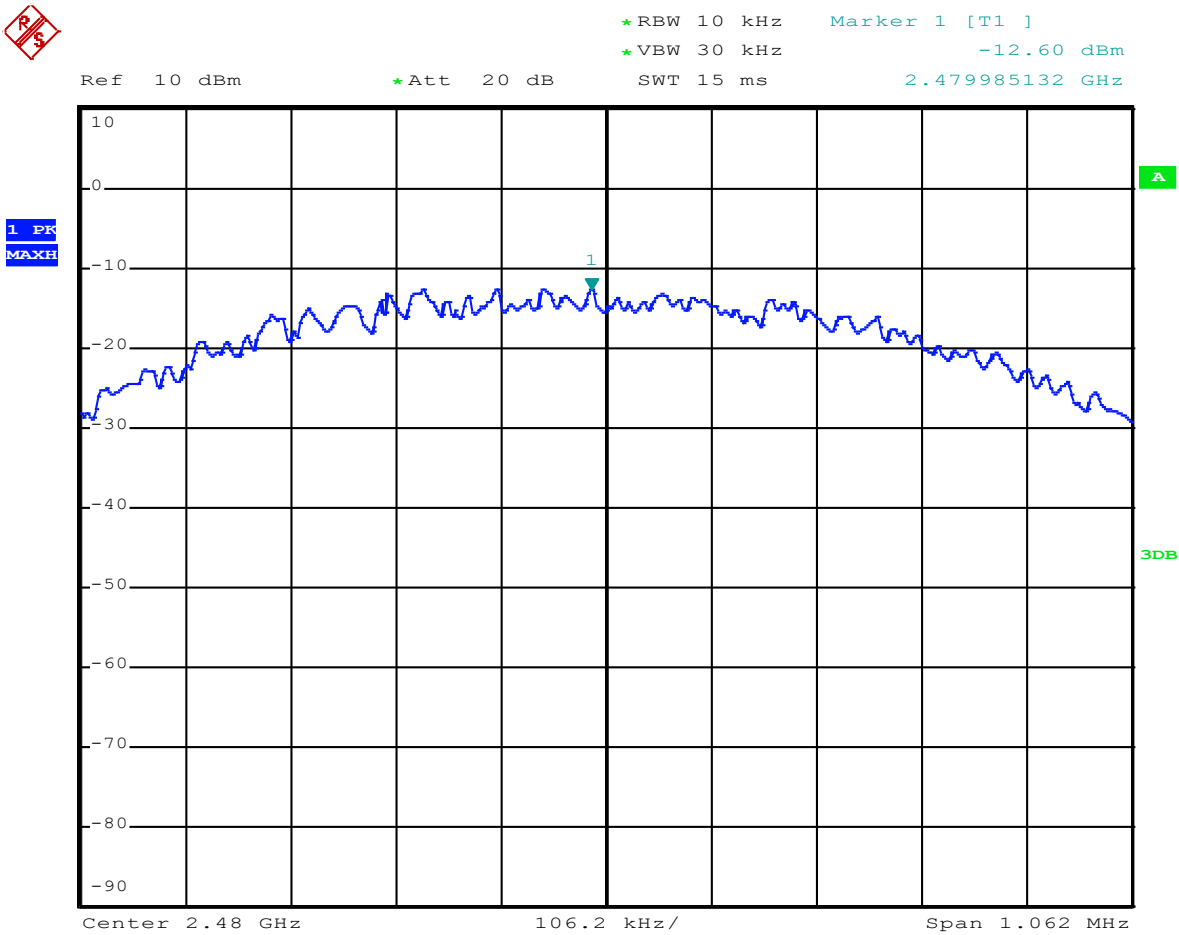


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3. High Channel



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LE-2M

EUT		Bluetooth Control Module		Model	B113A-015-1
Mode		Keep Transmitting		Input Voltage	DC12V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Peak Power Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/10kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail
Low	-15.11	0.2	-14.91	8	Pass
Middle	-15.36	0.2	-15.16	8	Pass
High	-15.35	0.2	-15.15	8	Pass

Note: The result basic equation calculation as follow:

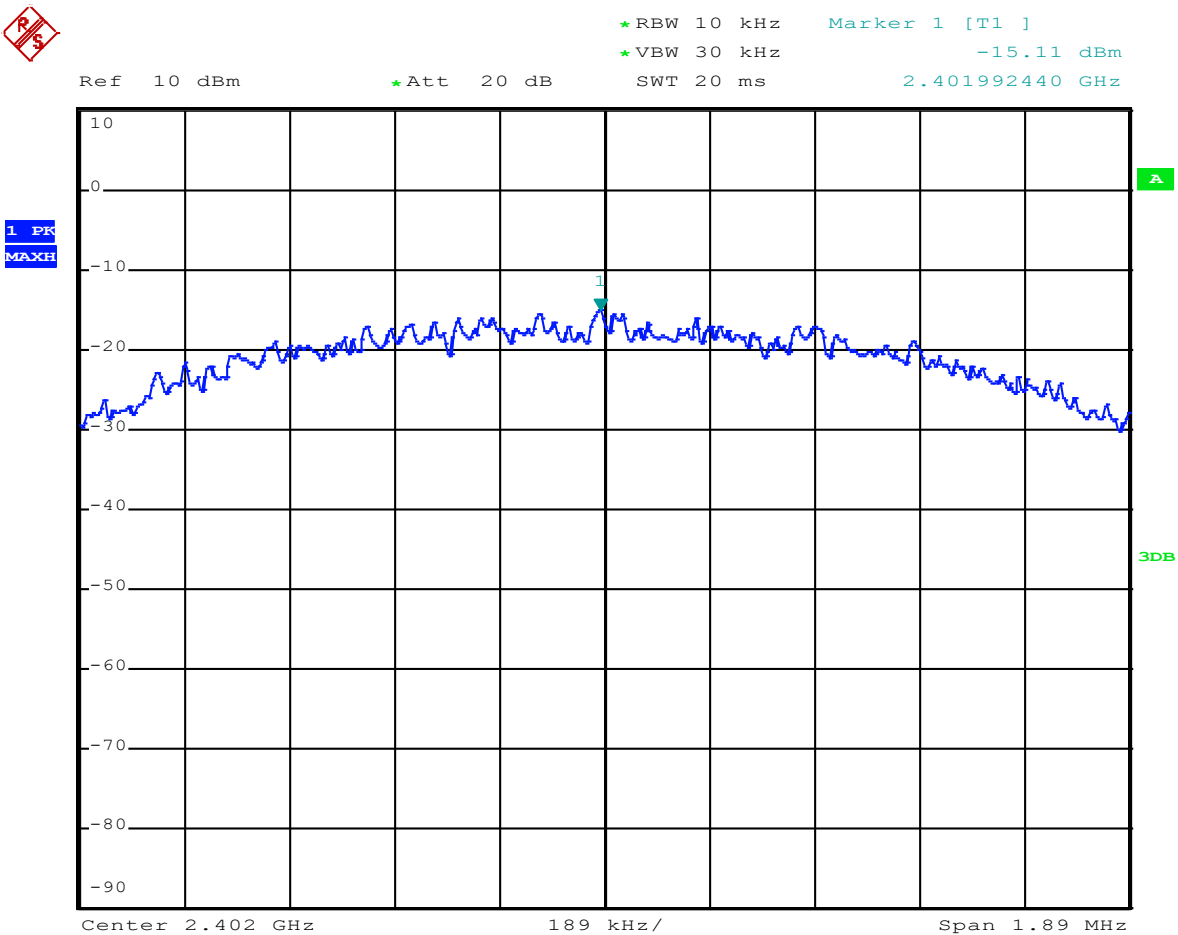
$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss}$$

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Test Figure:

1. Condition: Low Channel

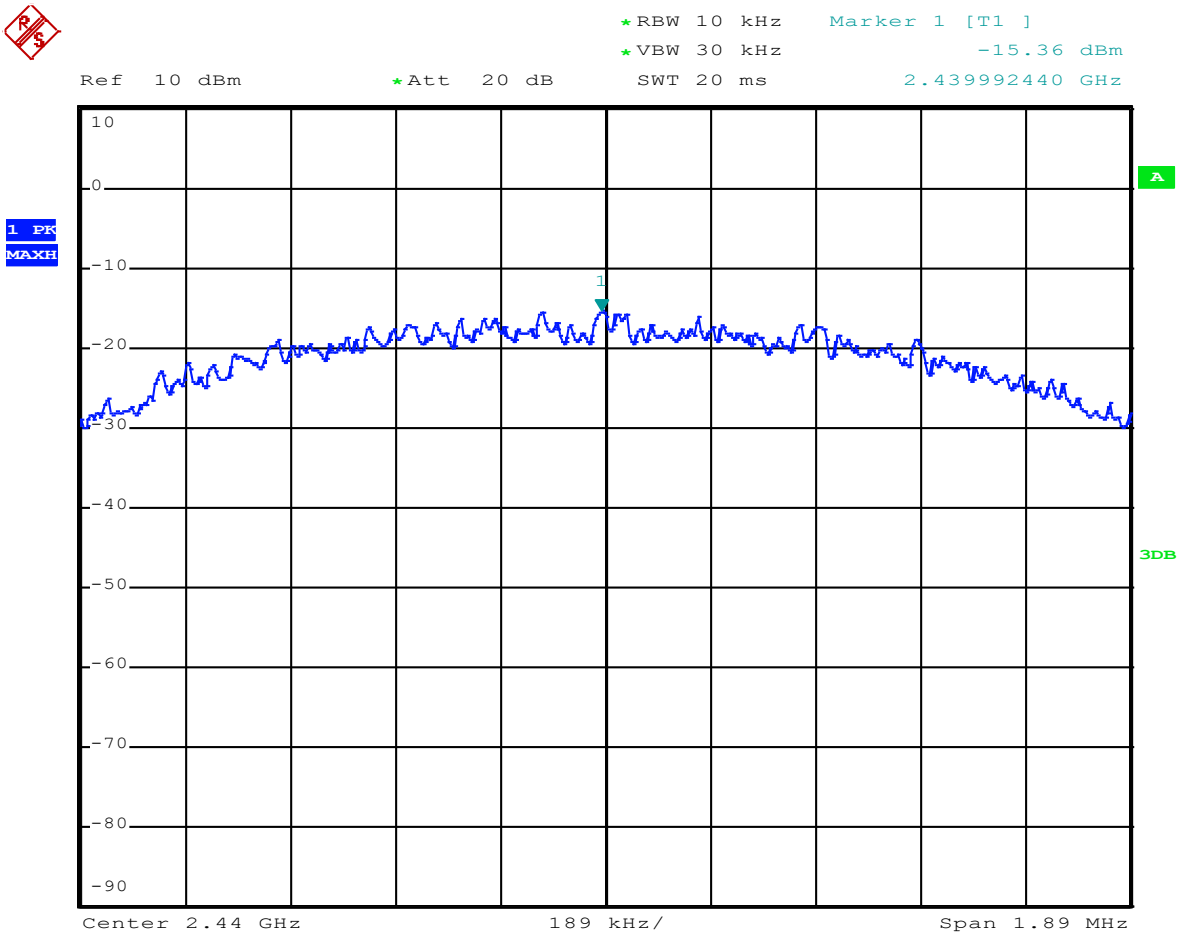


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2. Condition: Middle Channel

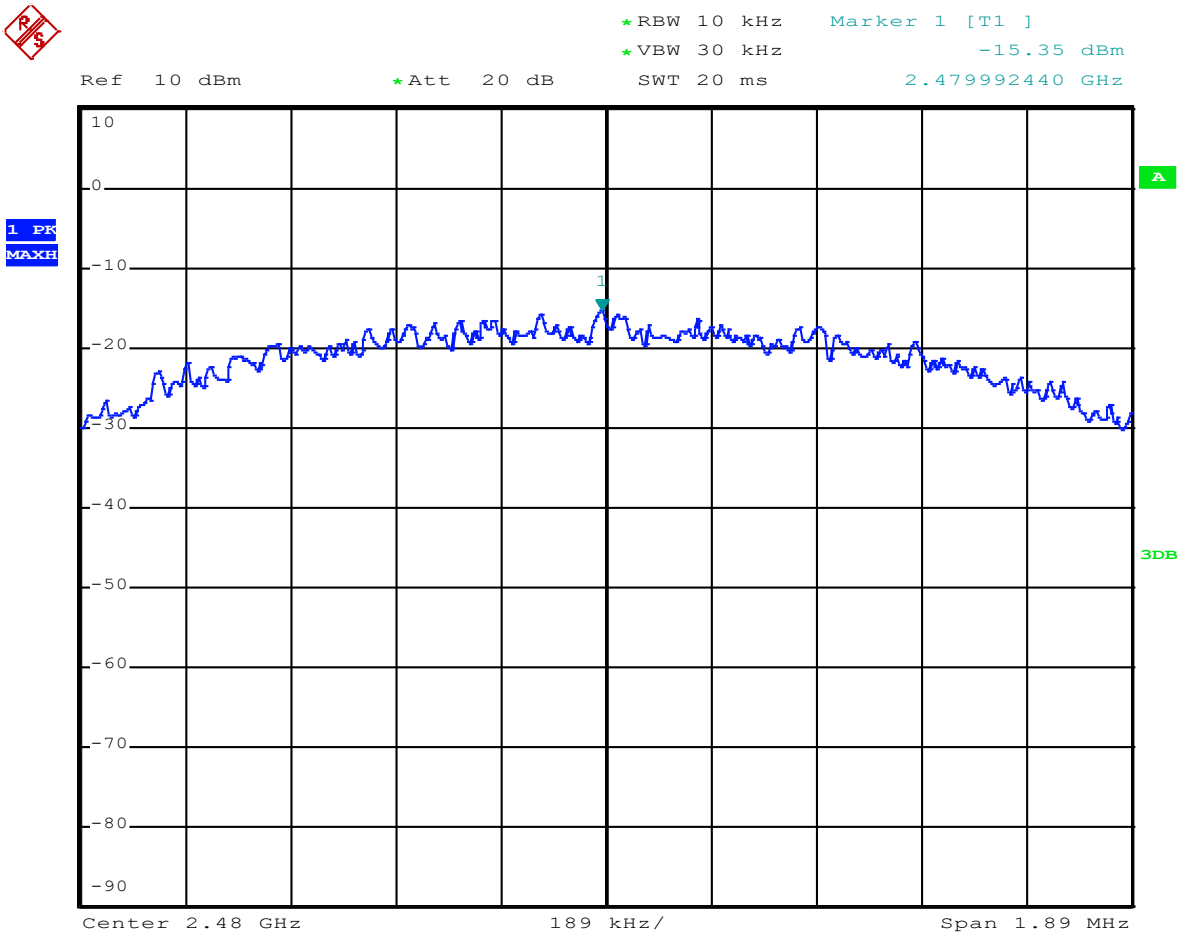


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3. High Channel



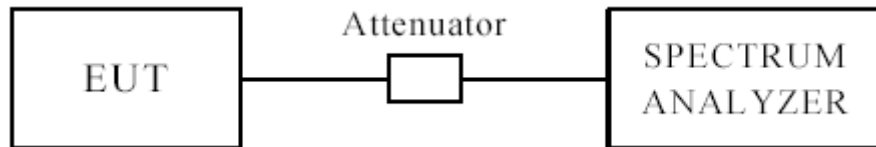
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10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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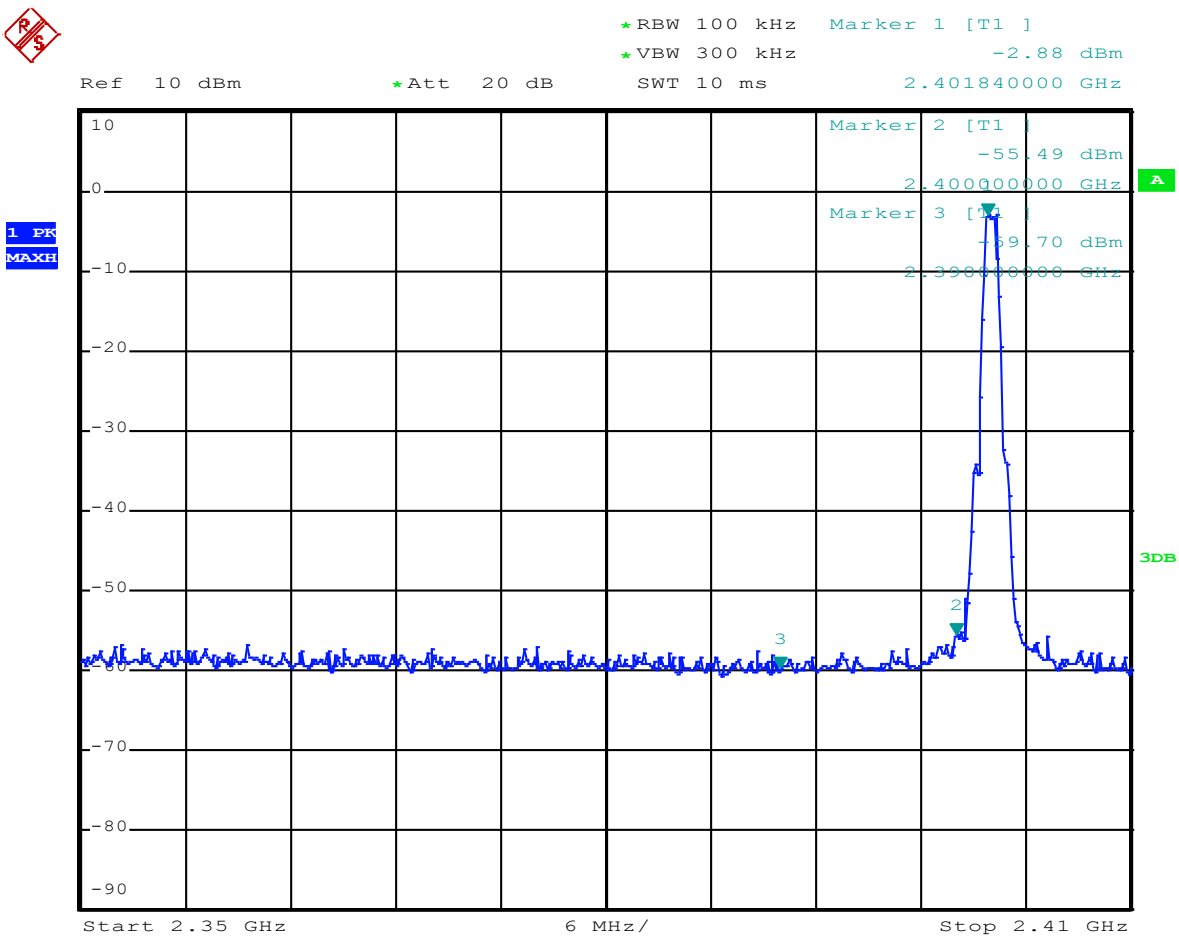


LE-1M

10.4 Band-edge Measurement

EUT	Bluetooth Control Module	Model	B113A-015-1
Mode	Keep Transmitting	Input Voltage	DC12V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 10.MAR.2026 17:44:44

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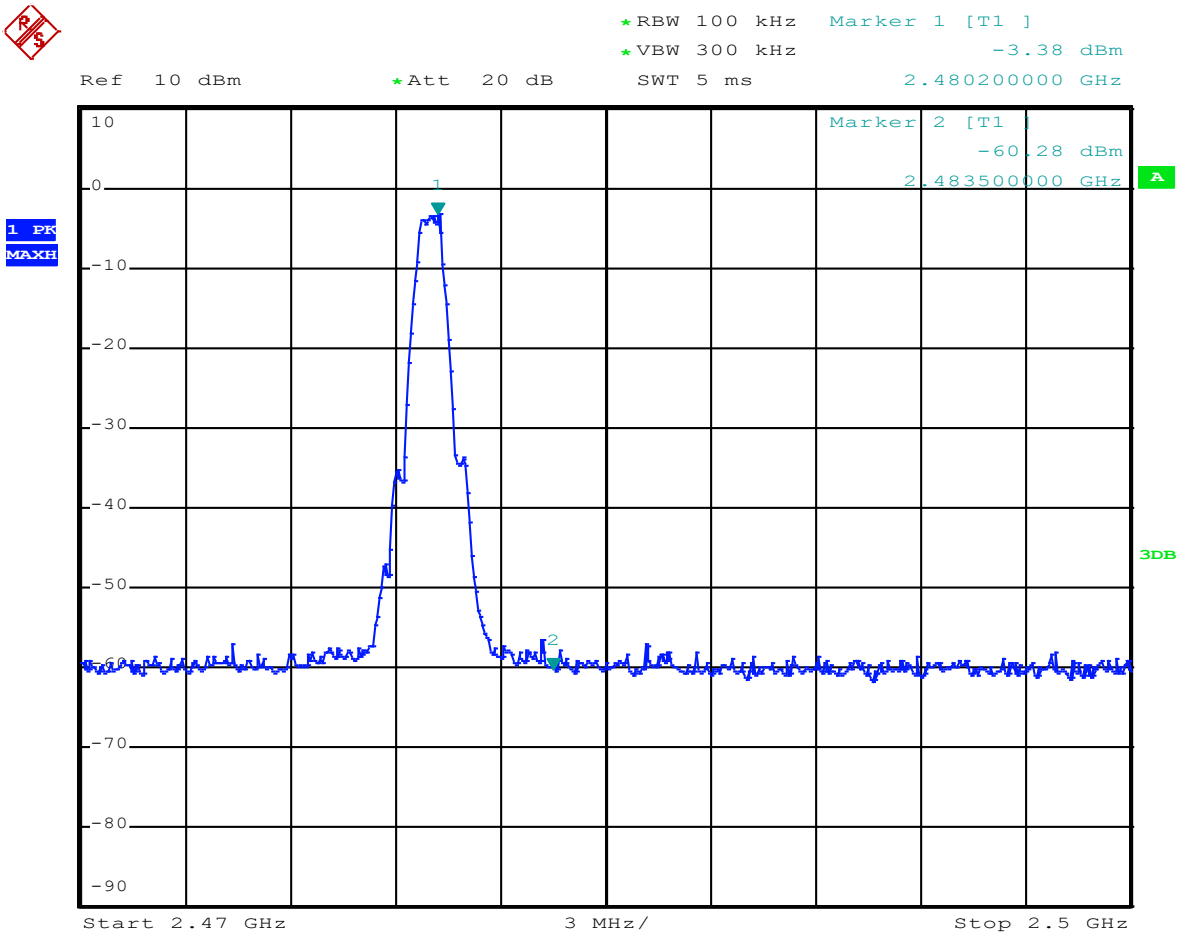


LE-1M

10.4 Band-edge Measurement

EUT	Bluetooth Control Module	Model	B113A-015-1
Mode	Keeping Transmitting	Input Voltage	DC12V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 10.MAR.2026 17:44:03

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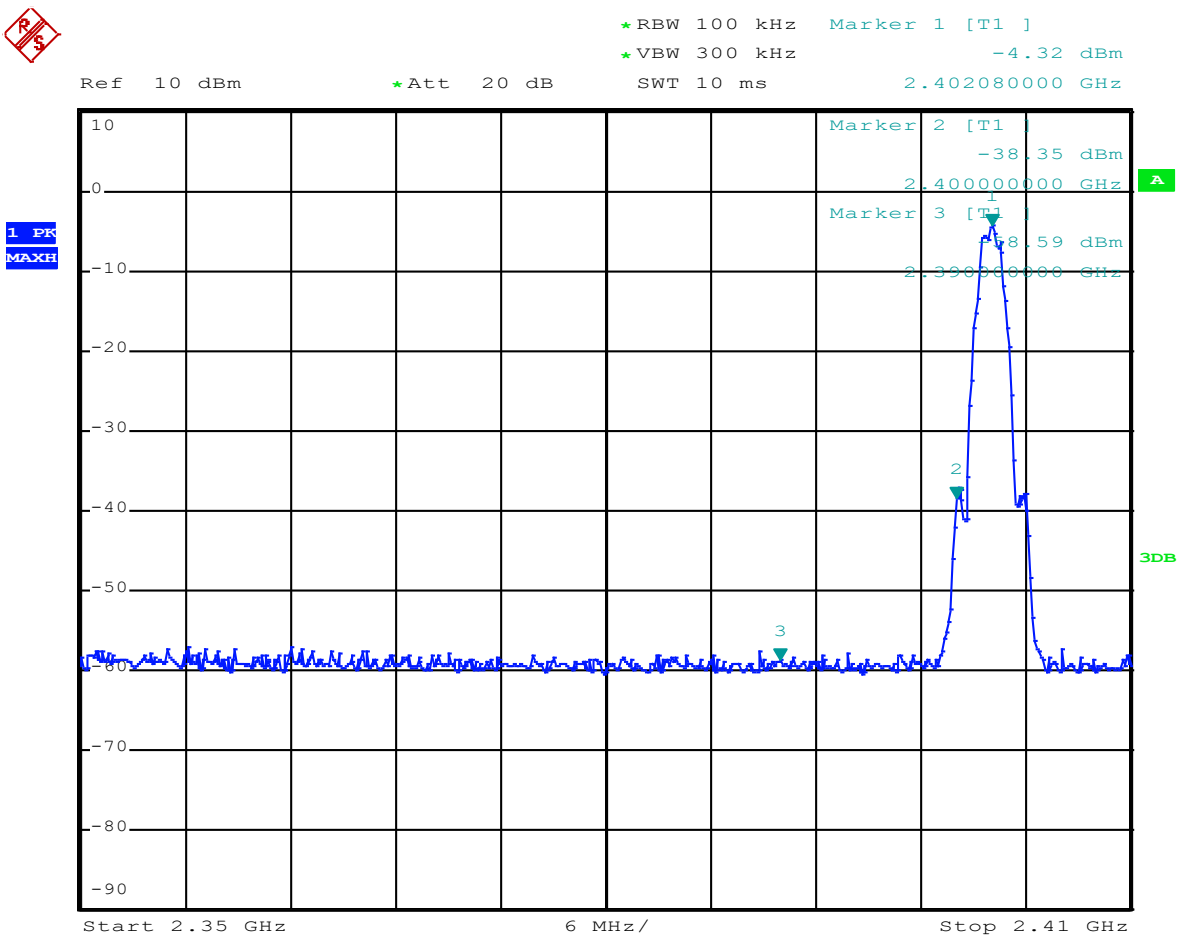


LE-2M

10.4 Band-edge Measurement Mode: 2M

EUT	Bluetooth Control Module	Model	B113A-015-1
Mode	Keep Transmitting	Input Voltage	DC12V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 10.MAR.2026 17:58:40

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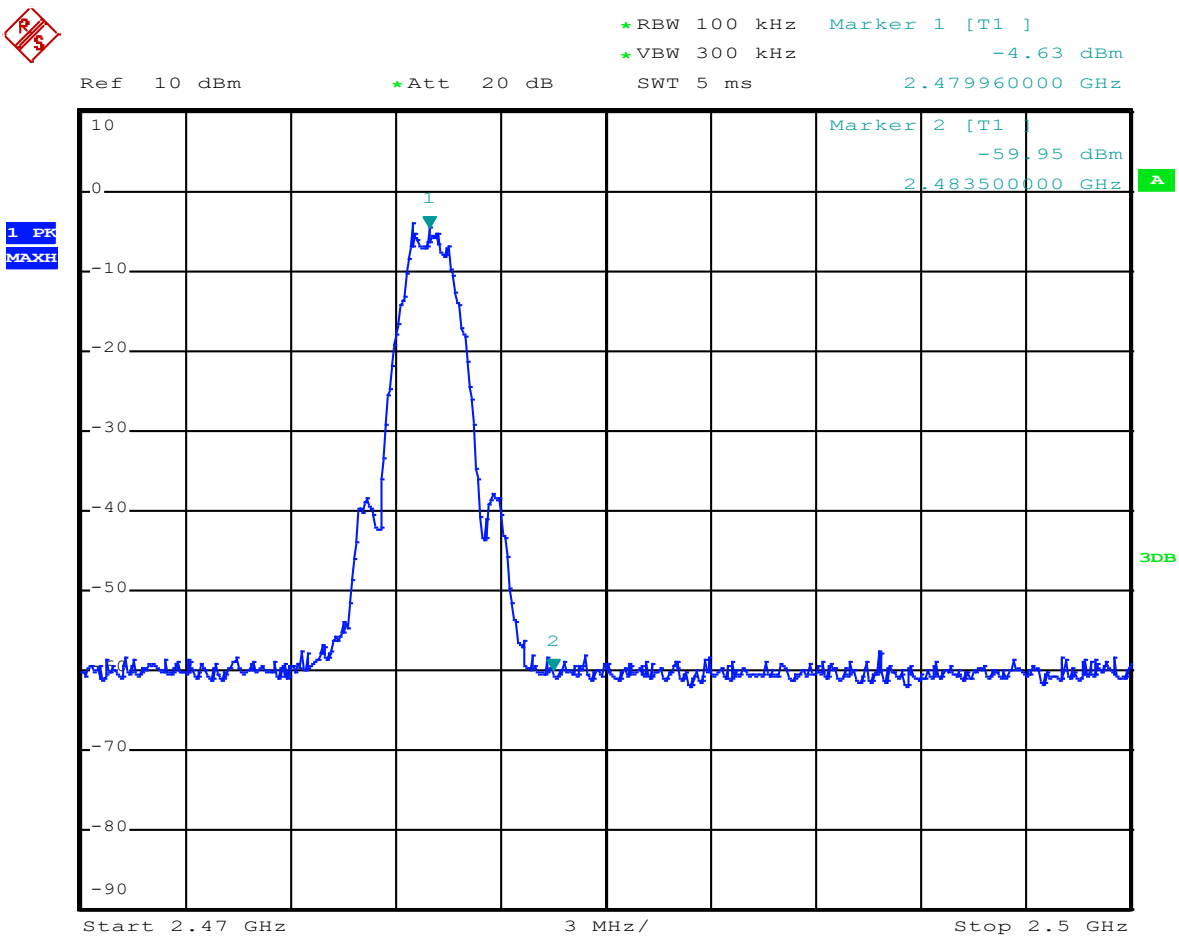


LE-2M

10.4 Band-edge Measurement Mode: 2M

EUT	Bluetooth Control Module	Model	B113A-015-1
Mode	Keeping Transmitting	Input Voltage	DC12V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 10.MAR.2026 17:58:06

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10.4 Restrict Band Measurement

EUT	Bluetooth Control Module			Model	B113A-015-1		
Mode	Keep Transmitting			Input Voltage	DC12V		
Temperature	24 deg. C,			Humidity	56% RH		
Test Result:	Pass						

FCC Part 15C Class B 1GHz-18GHz -2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.200	93.08	-3.57	74.0	19.08	Peak	344.00	100	Horizontal	N/A
2	2400.000	57.87	-3.57	74.0	-16.13	Peak	344.00	100	Horizontal	Pass
3	2390.000	39.81	-3.53	74.0	-34.19	Peak	86.00	100	Horizontal	Pass
4	2390.975	44.59	-3.53	74.0	-29.41	Peak	223.00	100	Horizontal	Pass
5	2399.750	49.04	-3.57	74.0	-24.96	Peak	344.00	100	Horizontal	Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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10.4 Restrict Band Measurement

EUT	Bluetooth Control Module			Model	B113A-015-1		
Mode	Keep Transmitting			Input Voltage	DC12V		
Temperature	24 deg. C,			Humidity	56% RH		
Test Result:	Pass						

FCC Part 15C Class B 1GHz-18GHz -2

1.0E+2

level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.200	83.21	-3.57	74.0	9.21	Peak	3.00	100	Vertical	N/A
2	2400.000	48.36	-3.57	74.0	-25.64	Peak	3.00	100	Vertical	Pass
3	2390.000	45.41	-3.53	74.0	-28.59	Peak	281.00	100	Vertical	Pass
4	2390.575	51.69	-3.54	74.0	-22.31	Peak	281.00	100	Vertical	Pass
5	2396.075	51.47	-3.55	74.0	-22.53	Peak	286.00	100	Vertical	Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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10.4 Restrict Band Measurement

EUT	Bluetooth Control Module			Model	B113A-015-1		
Mode	Keep Transmitting			Input Voltage	DC12V		
Temperature	24 deg. C,			Humidity	56% RH		
Test Result:	Pass						

FCC Part 15C Class B 1GHz-18GHz -2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.222	93.46	-3.57	74.0	19.46	Peak	320.00	100	Horizontal	N/A
2	2483.500	36.95	-3.57	74.0	-37.05	Peak	340.00	100	Horizontal	Pass

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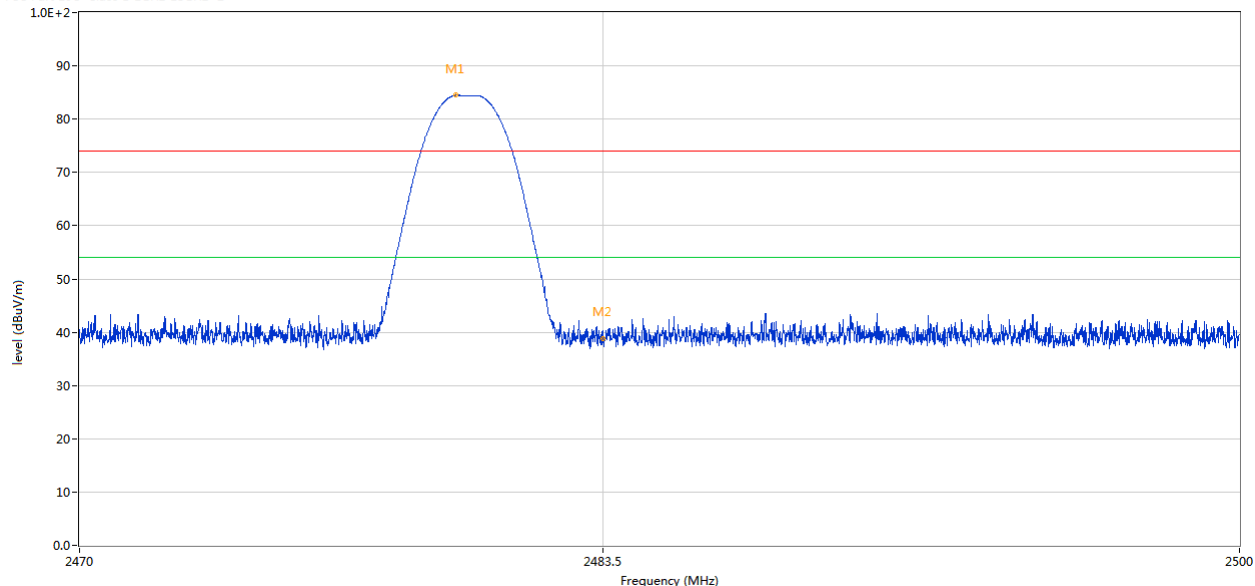
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10.4 Restrict Band Measurement

EUT	Bluetooth Control Module			Model	B113A-015-1		
Mode	Keep Transmitting			Input Voltage	DC12V		
Temperature	24 deg. C,			Humidity	56% RH		
Test Result:	Pass						

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.690	84.48	-3.57	74.0	10.48	Peak	299.00	100	Vertical	N/A
2	2483.500	38.83	-3.57	74.0	-35.17	Peak	342.00	100	Vertical	Pass

Note: For Restricted band test, only the worst case was reported and BLE-2M was the worst case

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11.0 Antenna Requirement

11.1 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 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Dipole Antenna with revers polarity antenna connector. The gain of the antennas is 4.13dBi (Get from the antenna specification provided the manufacturer)

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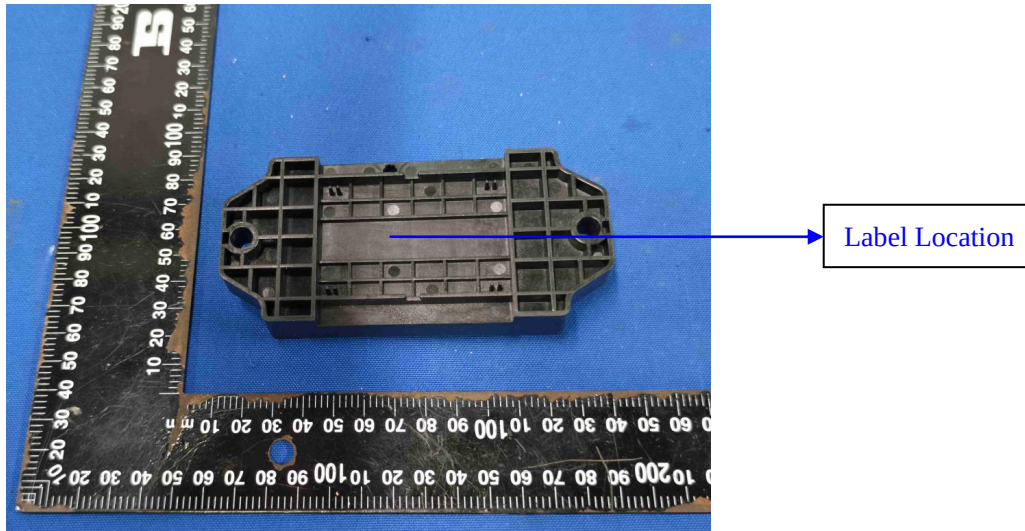


12.0 FCC ID Label

FCC ID: 2BBZS-B113A01501

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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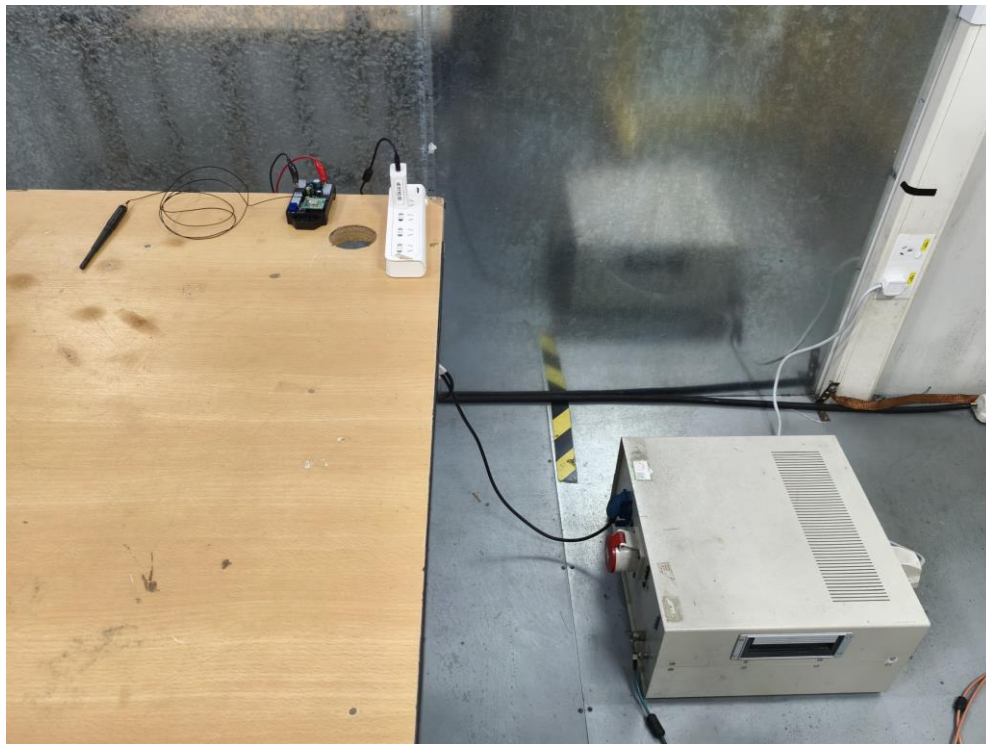
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13.0 Photo of testing

Conducted Emission Test Setup:



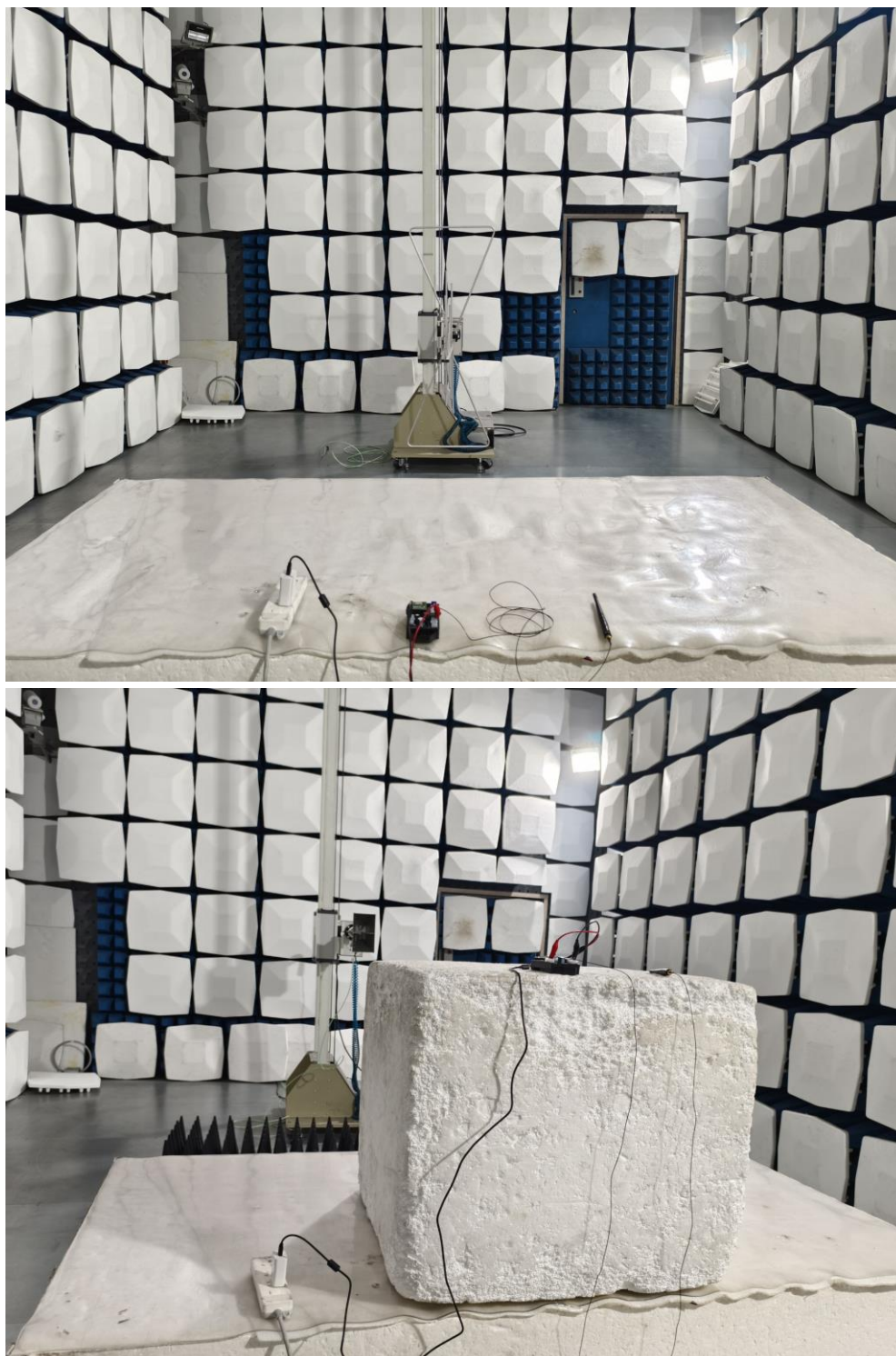
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Radiated Emission Test Setup:



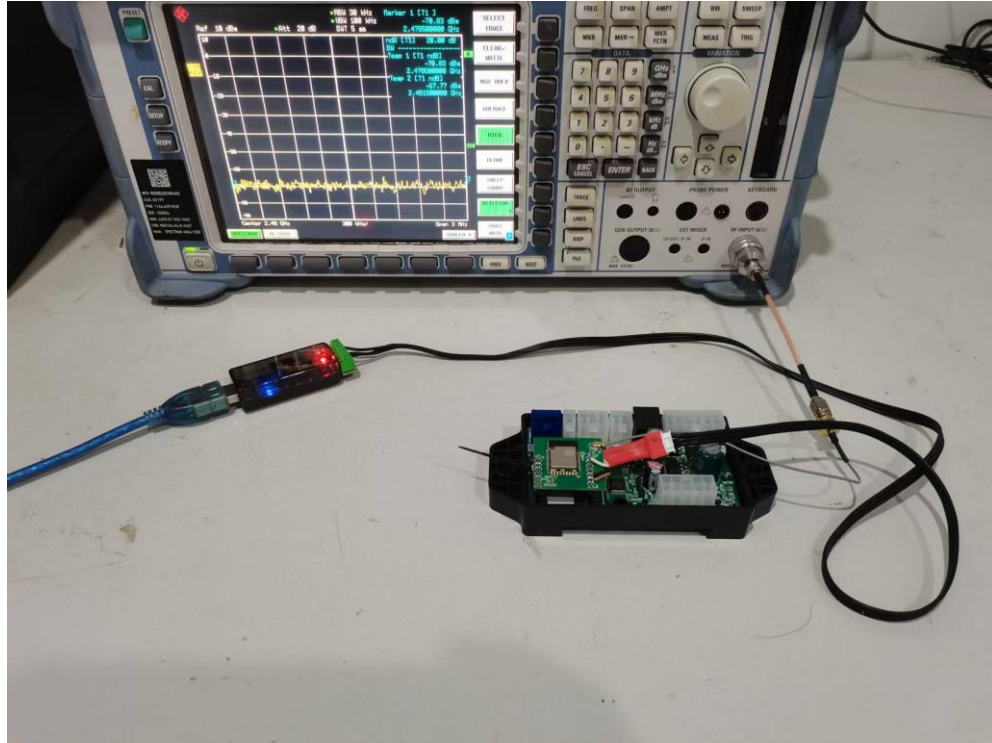
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RF test view

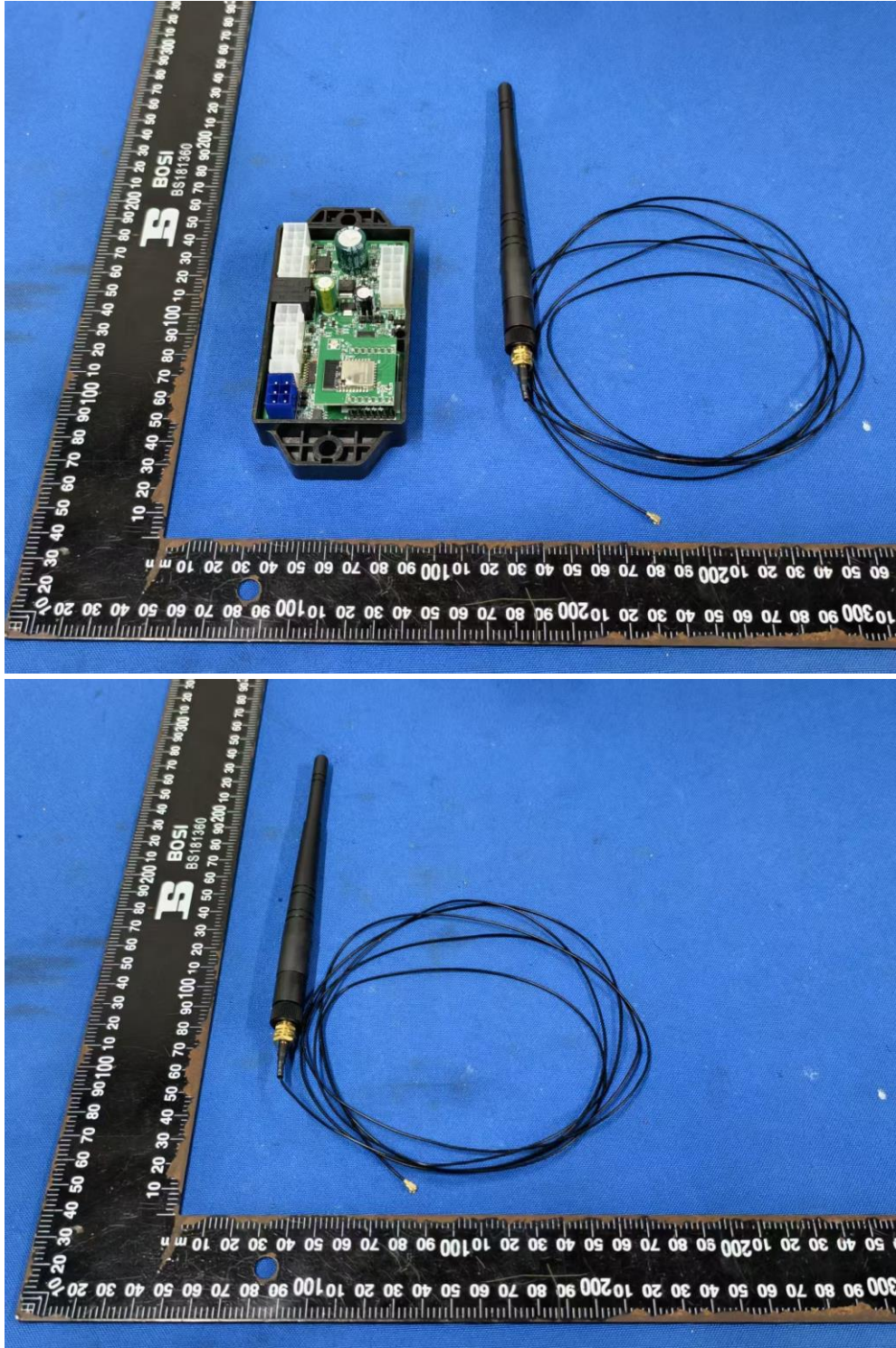


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Photographs – EUT

Outside View



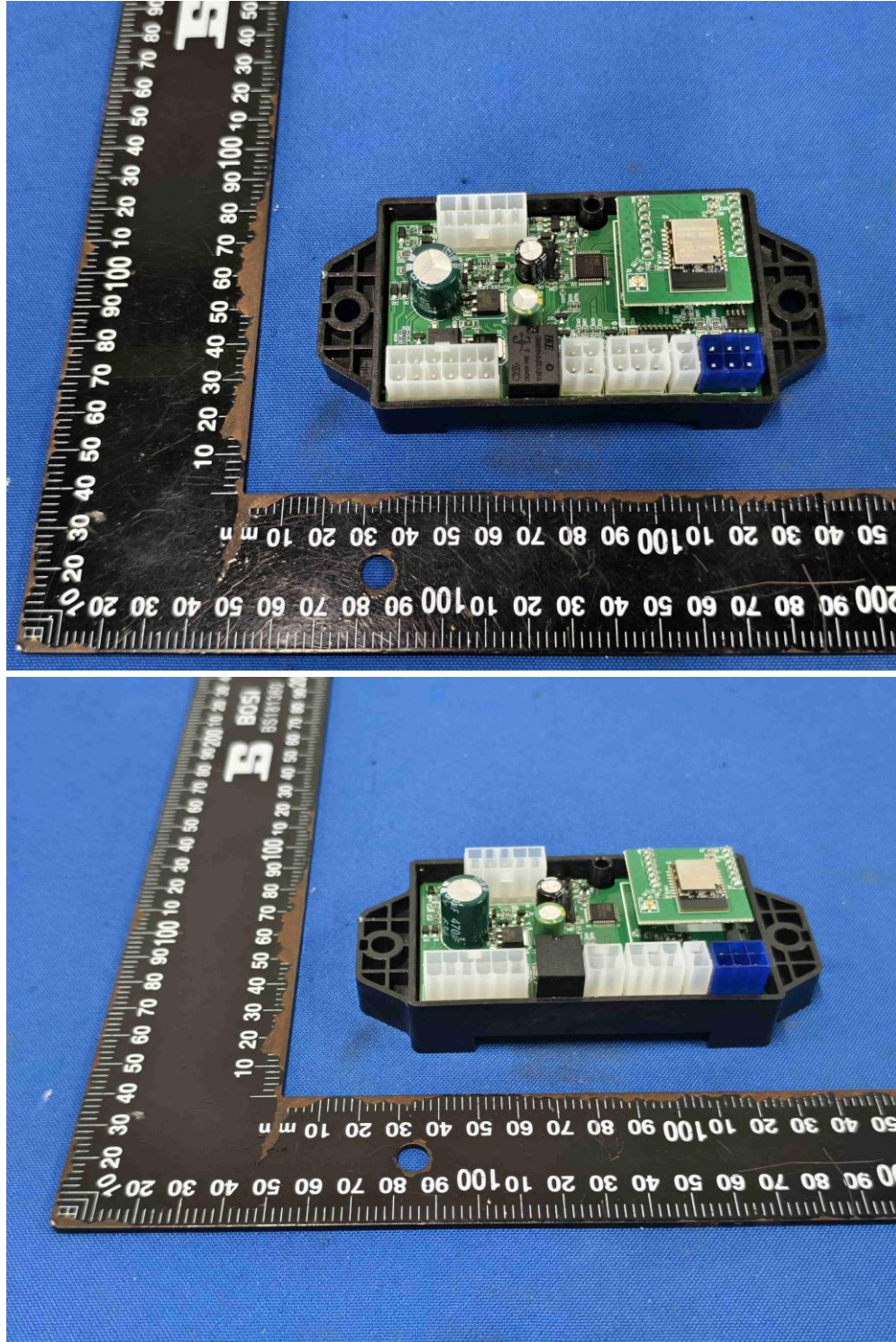
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Outside View



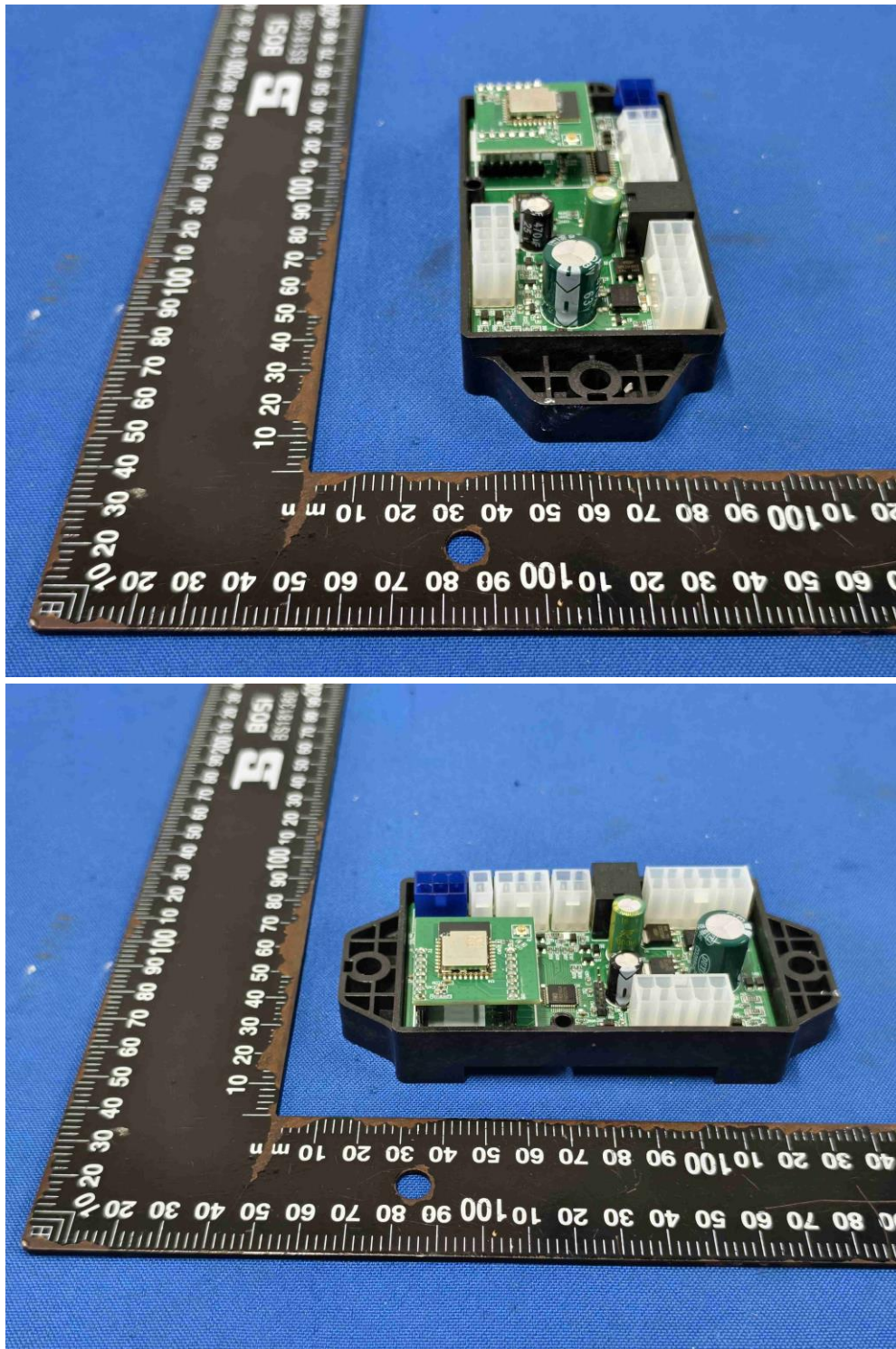
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Outside View



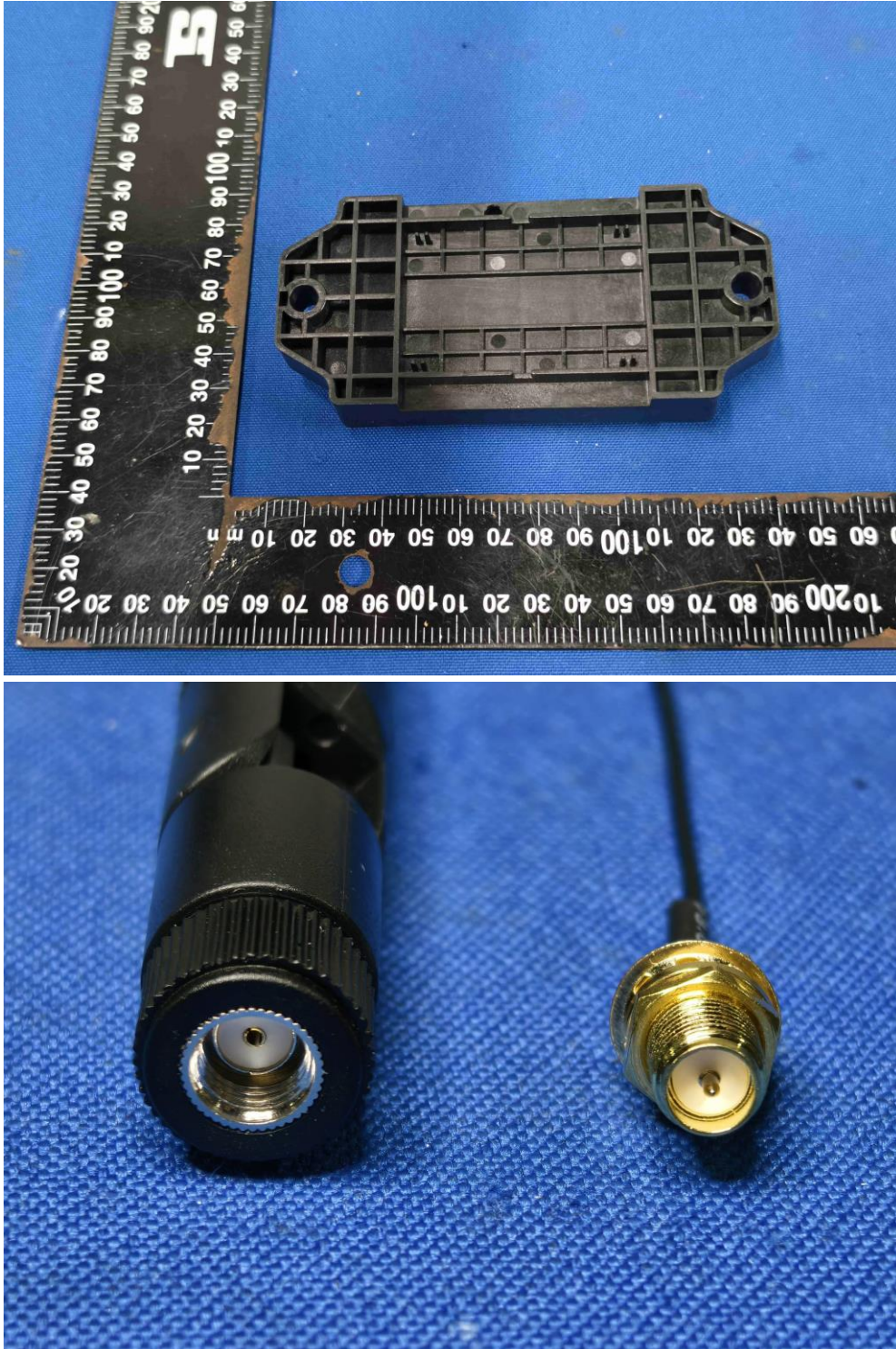
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Outside View



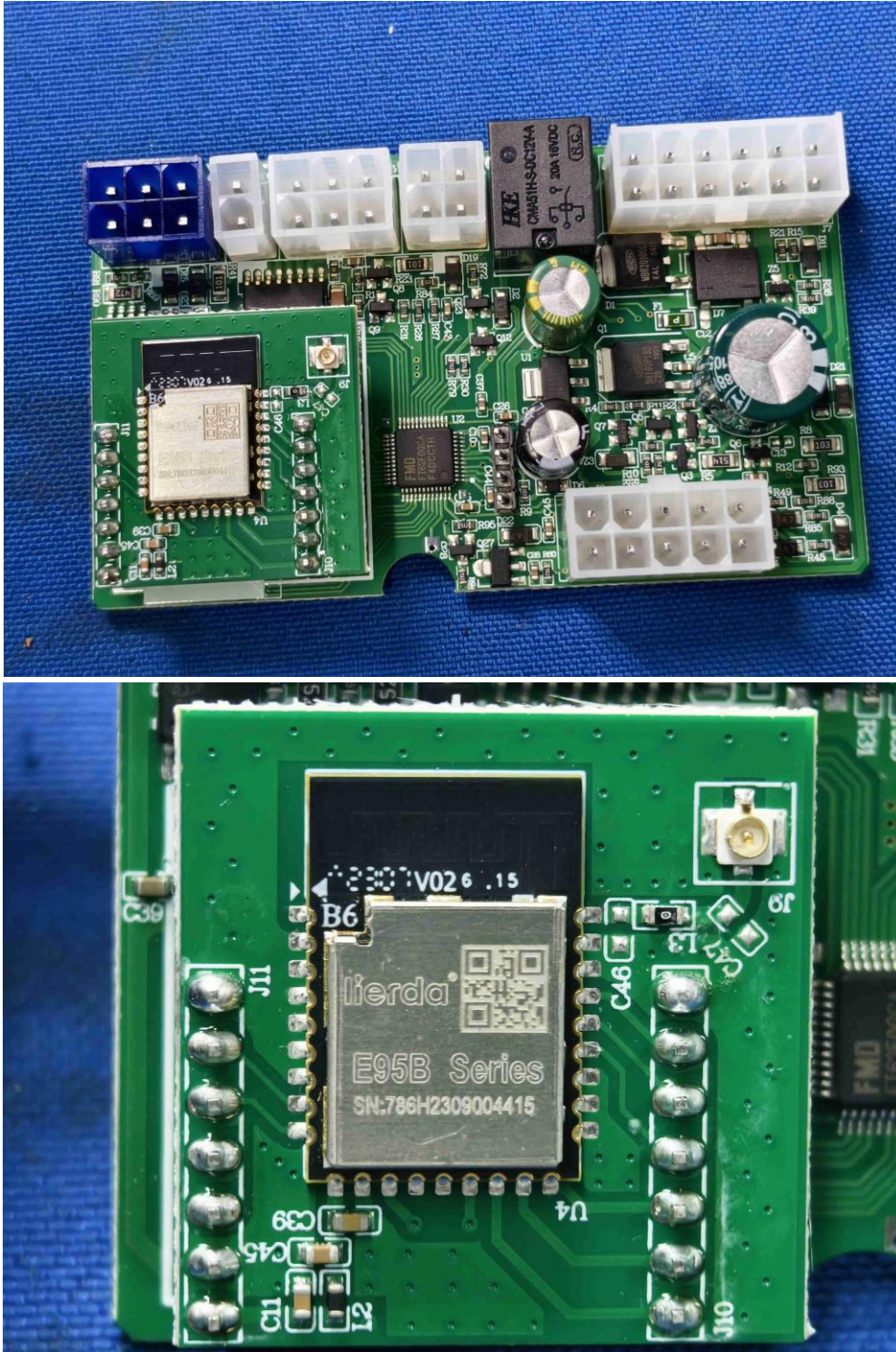
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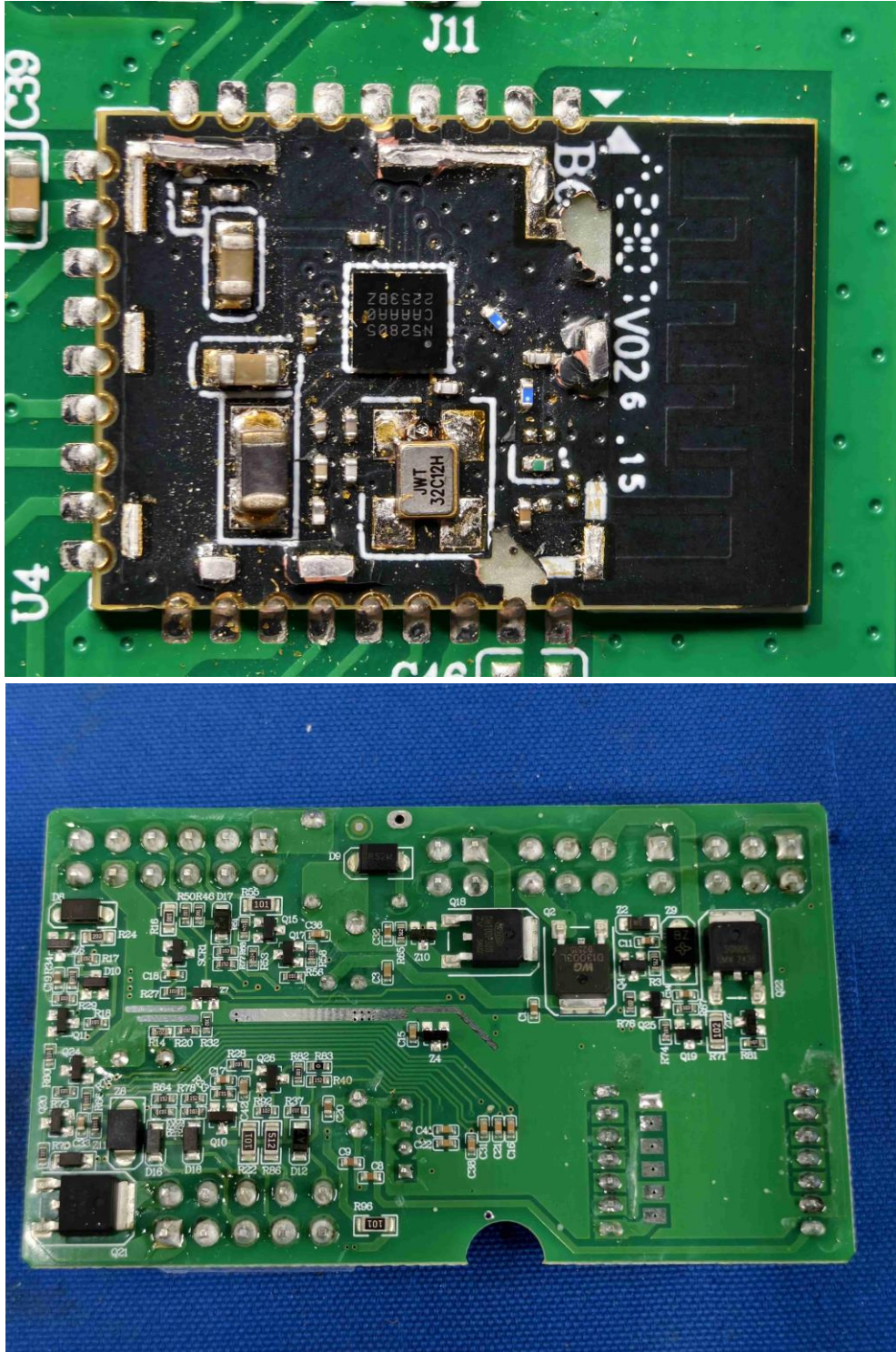
Inside View



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Inside View



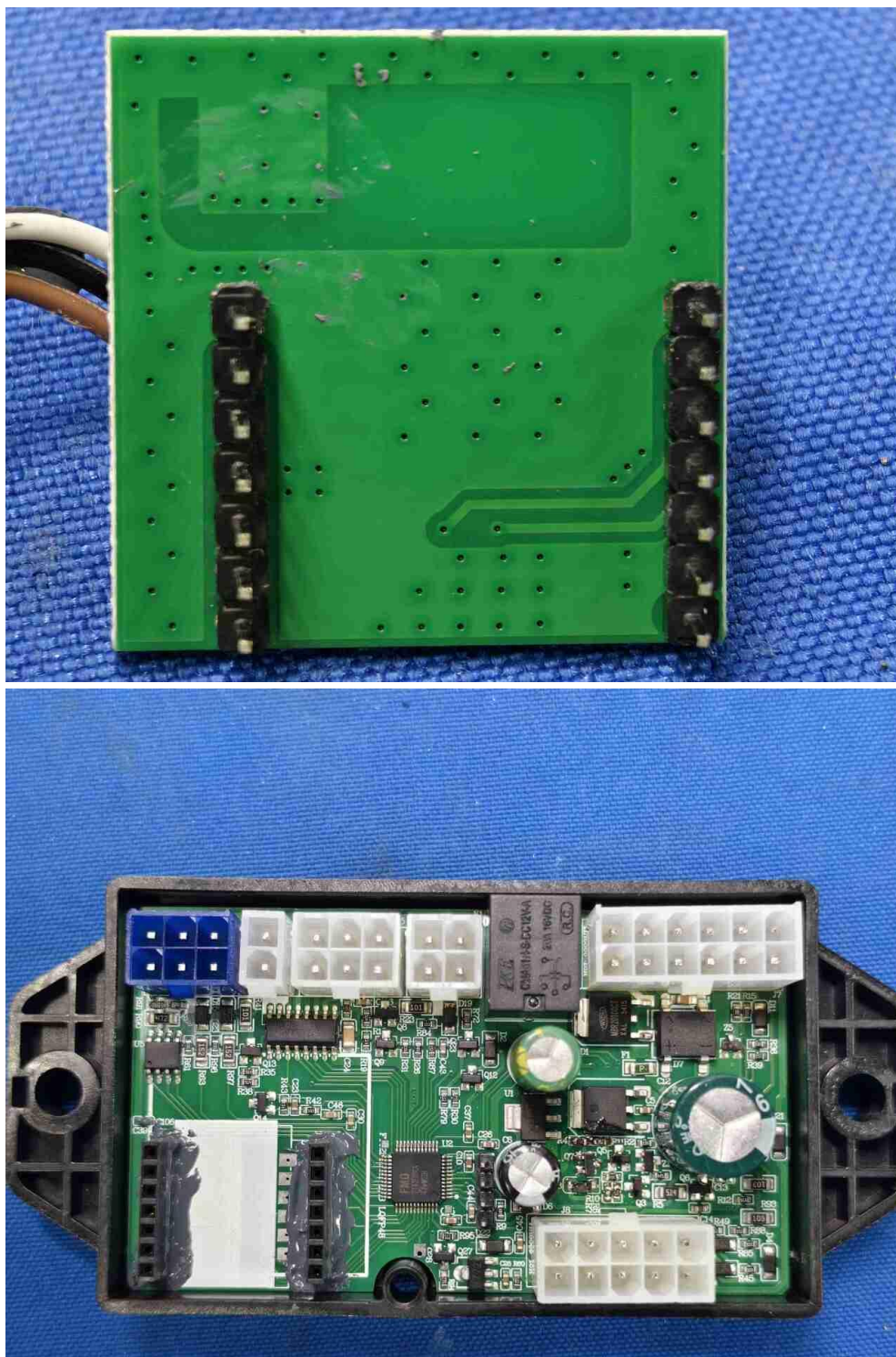
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Inside View



End of the report

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