

# **FCC Test Report**

**Report No.:** 2505P37465EE

Applicant: Huizhou speed wireless technology co.,ltd

Address: No.138 Huize Road, Hi-Tech Industrial Park of East River, Zhongkai

Hi-tech District, Huizhou City, Guangdong Province, China

Product Name: WiFi+BT Module

Product Model: WL00033

Multiple Models: N/A

Trade Mark: N/A

FCC ID: 2BBLK-WL6376B

Standards: FCC CFR Title 47 Part 15C (§15.247)

**Test Date:** 2025-02-07 to 2025-03-05

Test Result: Complied

**Report Date:** 2025-03-05

Reviewed by:

Approved by:

Abel Chen

Abel Chen

**Project Engineer** 

Jacob Kong

Jacob Gong

Manager

#### Prepared by:

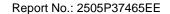
World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China



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## **Revision History**

Version No.	Issued Date	Description
00	2025-03-05	Original

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### 1 General Information

### 1.1 Client Information

Applicant:	Huizhou speed wireless technology co.,ltd
Address:	No.138 Huize Road, Hi-Tech Industrial Park of East River, Zhongkai Hi-tech District, Huizhou City, Guangdong Province, China
Manufacturer:	Huizhou speed wireless technology co.,ltd
Address:	No.138 Huize Road, Hi-Tech Industrial Park of East River, Zhongkai Hi-tech District, Huizhou City, Guangdong Province, China

## 1.2 Product Description of EUT

The EUT is WiFi+BT Module that contains BT, BLE, 2.4G and 5G WLAN radios, this report covers the full testing of the BLE radio.

Sample Serial Number	2XWU-1(BT path 1) for CE test, 2XWU-2(BT path 1), 2XWU-4(BT path 2), 2XWU-5 (BT path 3) for RE test&RF test(assigned by WATC)
Sample Received Date	2025-01-22
Sample Status	Good Condition
Frequency Range	2402MHz - 2480MHz(BLE1M/2M)
Maximum Conducted Peak Output Power	7.24dBm
Modulation Technology	GFSK
Spatial Streams	SISO (1TX, 1RX)
Antenna Gain#	5.85dBi
Power Supply	DC 3.3V
Adapter Information	N/A
Modification	Sample No Modification by the test lab

#### 1.3 Antenna information

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

#### **Device Antenna information:**

The BLE antenna is an external antenna with I-PEX connect, please see product external photos for details.



## 1.4 Related Submittal(s)/Grant(s)

FCC Part 15, Subpart C, Equipment Class: DSS, FCC ID: 2BBLK-WL6376B FCC Part 15, Subpart E, Equipment Class: NII, FCC ID: 2BBLK-WL6376B

1.5 Measurement Uncertainty

Para	meter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Conduc	cted Emissions	±3.14dB
	Below 30MHz	±2.78dB
Emissions, Radiated	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Emissions, Conducted		1.75dB
Conducted Power		0.74dB
Frequency Error		150Hz
Bandwidth		0.34%
Power Spectral Density		0.74dB

**Note:** The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

## 1.6 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

## 1.7 Test Methodology

FCC CFR 47 Part 2

FCC CFR 47 Part 15

KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2013

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method

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## 2 Description of Measurement

### 2.1 Test Configuration

Operating ch	Operating channels:								
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)				
0	2402	19	2440	38	2478				
1	2404	20	2442	39	2480				
				/	/				
18	2438			/	/				

According to ANSI C63.10-2013 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

Lowest channel		Middle channel		Highest channel	
Channel No. Frequency (MHz)		Channel No. Frequency (MHz)		Channel No.	Frequency (MHz)
0	2402	19	2440	39	2480

Test Mode:							
Transmitting mode:	ng with modulation	·					
Exercise software <sup>#</sup> : WCN Combo Tool							
	_	Power Level Setting <sup>#</sup>					
Mode	Data rate	Low Channel	Middle Channel	High Channel			
BLE 1M	1Mbps	Default	Default	Default			
BLE 2M	2Mbps	Default	Default	Default			
		The exercise software and the maximum power setting that provided by manufacturer.					

#### **Worst-Case Configuration:**

For radiated emissions, EUT was investigated in three orthogonal orientation, the worst-case orientation was recorded in report

The device have three antenna path designs, all the path signals is from same input, each path can be selected to activate/deactivate by connect/disconnect a  $0\Omega$  resistance, detail please refer the EUT photo, only one path will be selected to use at a time.

For RF conducted test, three path output power was tested, full test was performed on the path which has maximum output power

For AC power line conducted emission and radiated emission 9kHz-1GHz were performed with the EUT transmits at the channel with highest output power among the three paths as worst-case scenario.

For radiated emission above 18GHz was performed with the EUT transmits at the channel with highest output power of each path as worst-case scenario.

For radiated emissions below 30MHz, three antenna orientations (parallel, perpendicular, gound-parallel) were tested, only record the worse case test data in report.

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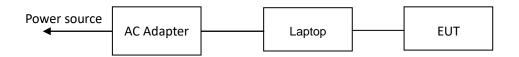
2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number	
Dell	Dell Laptop		unknown	
Dell	Dell AC Adapter		unknown	

2.3 Interconnecting Cables

Manufacturer	Description	Length(m)	From	То	
unknown	USB extension cable	1.0	Laptop	EUT	
Dell	AC Power Cable	AC Power Cable 1.5 Power s		AC Adapter	
Dell	DC Power Cable	1.5	AC Adapter	Laptop	

## 2.4 Block Diagram of Connection between EUT and AE



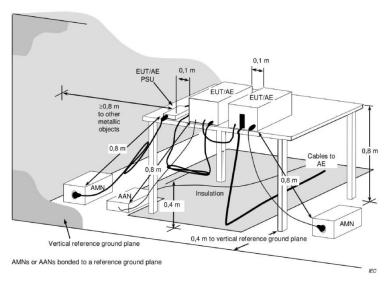
Note: for reference only, the actual connection setup used for testing please refer to the test photos.

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## 2.5 Test Setup

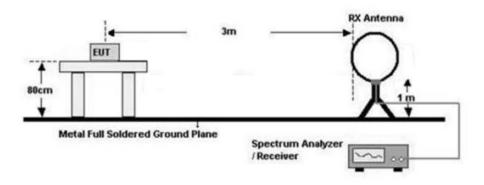
#### 1) Conducted emission measurement:



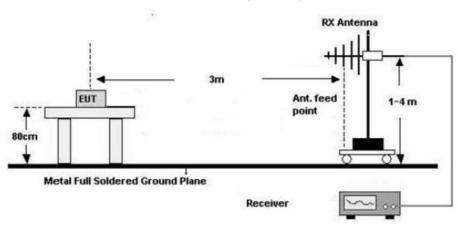
**Note:** The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

#### 2) Radiated emission measurement:

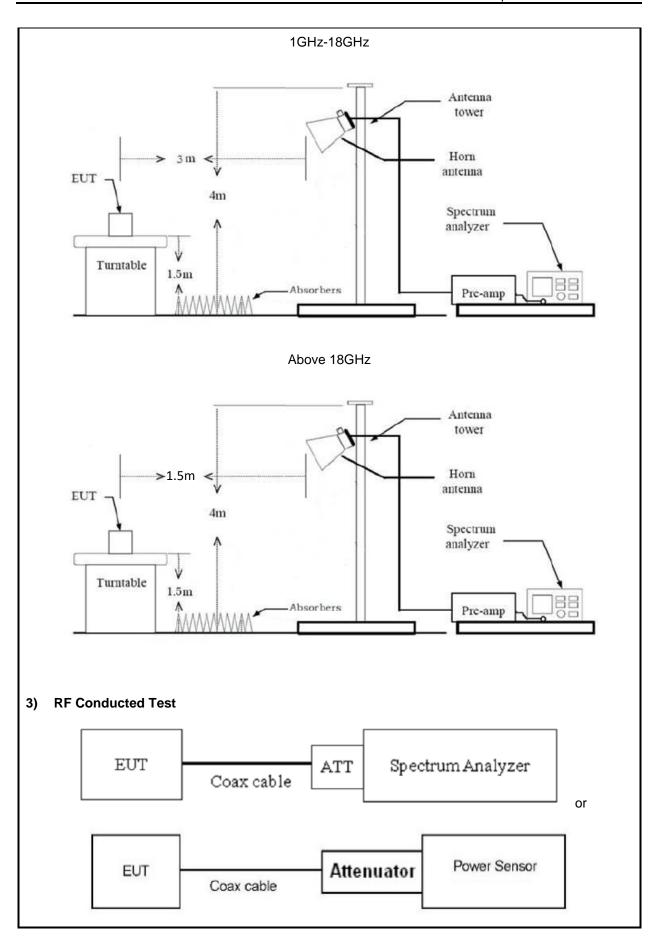
Below 30MHz (3m SAC)



30MHz-1GHz (3m SAC)









### 2.6 Test Procedure

#### Conducted emission:

- 1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
- Both sides of A.C. line are checked for maximum conducted interference. In order to find the
  maximum emission, the relative positions of equipment and all of the interface cables must be
  changed according to ANSI C63.10 on conducted measurement.
- 3. Line conducted data is recorded for both Line and Neutral

#### **Radiated Emission Procedure:**

#### a) For below 30MHz

- 1. All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz- 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40\*Log (test distance / specification distance).
- 2. Loop antenna use, investigation was done on the three antenna orientations (parallel, perpendicular, gound-parallel)
- 3. The RBW/VBW of receiver is set to 200Hz/1kHz for 9kHz to 150kHz range, to 9kHz/30kHz for 150kHz to 30MHz range for scan Peak emission, 200Hz/9kHz IF BW was used for final measurement in the Quasi-peak or average detection mode for frequency range 9~150kHz/150kHz~30MHz respectively.
- 4. If the Peak emission complies with the QP limit, then perform final measurement is optional.

#### b) For 30MHz-1GHz:

- 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
- 2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
- 3. The RBW/VBW of receiver is set to 100kHz/300kHz for scan Peak emission, 120kHz IF BW was used for final measurement in the Quasi-peak detection mode.
- 4. If the Peak emission complies with the QP limit, then perform final measurement is optional.

#### c) For above 1GHz:

- The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room.
   The measurement distance from the EUT to the receiving antenna is 3 m (1-18GHz) and 1.5 m (above 18GHz).
- 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal

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polarizations.

- 3. The RBW/VBW of spectrum analyzer is set to 1MHz/3MHz for scan Peak emission, for measured average emission, reduce the VBW to 10Hz(for duty cycle≥98%), or ≥1/T(for duty cycle<98%). T is minimum transmission duration. (Note: a high VBW (for example 1kHz, not less than 1/T) may used to scan average emissions to avoid long sweep time.)
- 4. If the Peak emission complies with the Average limit, then perform average measurement is optional.
- 5. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
- 6. Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

#### **RF Conducted Test:**

- The antenna port of EUT was connected to the RF port of the test equipment (Power Meter or Spectrum analyzer) through Attenuator and RF cable.
- 2. The cable assembly insertion loss of 8.0dB (including 6.0 dB Attenuator and 2.0dB cable) was entered as an offset in the power meter. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 2.0dB was assumed as worst case. This was later verified to be true by laboratory. ( if the RF cable provided by client, the cable loss declared by client)
- 3. The EUT is keeping in continuous transmission mode and tested in all modulation modes.

#### 2.7 Measurement Method

Description of Test	Measurement Method	
AC Line Conducted Emissions	ANSI C63.10-2013 Section 6.2	
Maximum Conducted Output Power	ANSI C63.10-2013 Section 11.9.1.1	
Power Spectral Density	ANSI C63.10-2013 Section 11.10.2	
6 dB Emission Bandwidth	ANSI C63.10-2013 Section 11.8.1	
99% Occupied Bandwidth	ANSI C63.10-2013 Section 6.9.3	
100kHz Bandwidth of Frequency Band Edge	ANSI C63.10-2013 Section 6.10	
Radiated emission	ANSI C63.10-2013 Section 11.11&11.12.1	
Duty Cycle	ANSI C63.10-2013 Section 11.6	

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## 2.8 Measurement Equipment

SCHWARZ   RECEIVER   R&S   LISN   ENV216   101748   2024/6/4   2021	Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date		
SCHWARZ   RECEIVER   ESR   101817   2024/6/4   2021	AC Line Conducted Emission Test							
N/A   Coaxial Cable   NO.12   N/A   2024/6/4   2021   Farad   Test Software   EZ-EMC   Ver.			ESR	101817	2024/6/4	2025/6/3		
Farad	R&S	LISN	ENV216	101748	2024/6/4	2025/6/3		
Farad	N/A	Coaxial Cable	NO.12	N/A	2024/6/4	2025/6/3		
R&S         EMI test receiver         ESR3         102758         2024/6/4         2028/6/4           ROHDE& SCHWARZ         SPECTRUM ANALYZER         FSV40-N         101608         2024/6/4         2028/6/4           SONOMA ILOW frequency INSTRUMENT         amplifier         310         186014         2024/6/4         2028/6/4           A.H. Systems         PREAMPLIFIER         PAM-0118P         531         2024/6/4         2028/6/4           COM-POWER         Amplifier         PAM-840A         461306         2024/8/7         2028/6/4           BACL         Loop Antenna         1313-1A         4010611         2024/2/7         2028/6/4           SCHWARZBECK         Log - periodic wideband antenna         VULB 9163         9163-872         2023/7/7         2026/6/2           Astro Antenna Ltd         Horn antenna         AHA-118S         3015         2023/7/6         2024/6/6         2024/6/6         2024/6/6         2024/6/6         2024/6/4         2026/6/2         2026/6/2         2024/6/4         2026/6/2         2026/6/2         2024/6/4         2026/6/2         2026/6/2         2024/6/4         2026/6/2         2024/6/4         2026/6/2         2026/6/2         2024/6/4         2026/6/2         2026/6/2         2026/6/2         2026/6/2         2026	Farad	Test Software	EZ-EMC		/	/		
ROHDE& SCHWARZ         SPECTRUM ANALYZER         FSV40-N         101608         2024/6/4         2021/6/4           SONOMA INSTRUMENT         Low frequency amplifier         310         186014         2024/6/4         2021/6/4           A.H. Systems         PREAMPLIFIER         PAM-0118P         531         2024/6/4         2021/6/4           COM-POWER         Amplifier         PAM-840A         461306         2024/8/7         2021/7           BACL         Loop Antenna         1313-1A         4010611         2024/2/7         2021/7           SCHWARZBECK         Log - periodic wideband antenna         VULB 9163         9163-872         2023/7/7         2026           Astro Antenna Ltd         Horn antenna         AHA-118S         3015         2023/7/10         2026           Ducommun technologies         Horn Antenna         ARH-4223-02         1007726-03         2023/7/10         2026           Oulitong         Band Reject Filter         OBSF-2400-248         0E02103119         2024/6/4         2025           Unknown         6.7G High Pass Filter         Unknown         6.7G         2024/6/4         2025           Unknown         10dB tenuator         10dB 10-1         2024/6/4         2025           N/A         Coaxial Cab			Radiated Emission	n Test				
SCHWARZ         ANALYZER         FSV40-N         101608         2024/6/4         2023           SONOMA INSTRUMENT         Low frequency amplifier         310         186014         2024/6/4         2024           A.H. Systems         PREAMPLIFIER         PAM-0118P         531         2024/6/4         2023           COM-POWER         Amplifier         PAM-840A         461306         2024/8/7         2023           BACL         Loop Antenna         1313-1A         4010611         2024/2/7         2021           SCHWARZBECK         Log - periodic wideband antenna         VULB 9163         9163-872         2023/7/7         2021           Astro Antenna Ltd         Horn antenna         AHA-118S         3015         2023/7/6         2024           Ducommun technologies         Horn Antenna         ARH-4223-02         1007726-03         2023/7/10         2024           Oulitong         Band Reject Filter         OBSF-2400-248         0E02103119         2024/6/4         2024           Unknown         6.7G High Pass Filter         Unknown         6.7G         2024/6/4         2024           Unknown         10dB 10-1         2024/6/4         2024           N/A         Coaxial Cable         NO.9         N/A         2	R&S	EMI test receiver	ESR3	102758	2024/6/4	2025/6/3		
INSTRUMENT			FSV40-N	101608	2024/6/4	2025/6/3		
COM-POWER         Amplifier         PAM-840A         461306         2024/8/7         2025/8           BACL         Loop Antenna         1313-1A         4010611         2024/2/7         2027/7           SCHWARZBECK         Log - periodic wideband antenna         VULB 9163         9163-872         2023/7/7         2026/7           Astro Antenna Ltd         Horn antenna         AHA-118S         3015         2023/7/6         2026/7           Ducommun technologies         Horn Antenna         ARH-4223-02         1007726-03         2023/7/10         2026/7           Oulitong         Band Reject Filter         OBSF-2400-248/3.5-50N         OE02103119         2024/6/4         2025/7           Unknown         6.7G High Pass Filter         Unknown         6.7G         2024/6/4         2025/7           Unknown         10dB attenuator         10dB         10-1         2024/6/4         2025/7           N/A         Coaxial Cable         NO.9         N/A         2024/6/4         2025/7           N/A         Coaxial Cable         NO.13         N/A         2024/6/4         2025/7           N/A         Coaxial Cable         NO.15         N/A         2024/6/4         2025/7           N/A         Coaxial Cable         NO.16<			310	186014	2024/6/4	2025/6/3		
BACL         Loop Antenna         1313-1A         4010611         2024/2/7         202           SCHWARZBECK         Log - periodic wideband antenna         VULB 9163         9163-872         2023/7/7         202t           Astro Antenna Ltd         Horn antenna         AHA-118S         3015         2023/7/6         202t           Ducommun technologies         Horn Antenna         ARH-4223-02         1007726-03         2023/7/10         202t           Oulitong         Band Reject Filter         OBSF-2400-248 3.5-50N         OE02103119         2024/6/4         202t           Unknown         6.7G High Pass Filter         Unknown         6.7G         2024/6/4         202t           Unknown         10dB attenuator         10dB         10-1         2024/6/4         202t           N/A         Coaxial Cable         NO.9         N/A         2024/6/4         202t           N/A         Coaxial Cable         NO.13         N/A         2024/6/4         202t           N/A         Coaxial Cable         NO.15         N/A         2024/6/4         202t           N/A         Coaxial Cable         NO.16         N/A         2024/6/4         202t           N/A         Coaxial Cable         NO.17         N/A	A.H. Systems	PREAMPLIFIER	PAM-0118P	531	2024/6/4	2025/6/3		
SCHWARZBECK         Log - periodic wideband antenna         VULB 9163         9163-872         2023/7/7         2026/7/7           Astro Antenna Ltd         Horn antenna         AHA-118S         3015         2023/7/6         2021/7/6           Ducommun technologies         Horn Antenna         ARH-4223-02         1007726-03         2023/7/10         2021/7/10           Oulitong         Band Reject Filter         OBSF-2400-248 3.5-50N         OE02103119         2024/6/4         2025/7/10           Unknown         6.7G High Pass Filter         Unknown         6.7G         2024/6/4         2025/7/10           Unknown         10dB attenuator         10dB         10-1         2024/6/4         2025/7/10           N/A         Coaxial Cable         NO.9         N/A         2024/6/4         2025/7/10           N/A         Coaxial Cable         NO.13         N/A         2024/6/4         2025/7/10           N/A         Coaxial Cable         NO.15         N/A         2024/6/4         2025/7/10           N/A         Coaxial Cable         NO.15         N/A         2024/6/4         2025/7/10           N/A         Coaxial Cable         NO.16         N/A         2024/6/4         2025/7/10           N/A         Coaxial Cable	COM-POWER	Amplifier	PAM-840A	461306	2024/8/7	2025/8/6		
Astro Antenna Ltd	BACL	Loop Antenna	1313-1A	4010611	2024/2/7	2027/2/6		
Ducommun technologies         Horn Antenna         ARH-4223-02         1007726-03         2023/7/10         2026           Oulitong         Band Reject Filter         OBSF-2400-248 3.5-50N         OE02103119         2024/6/4         2029           Unknown         6.7G High Pass Filter         Unknown         6.7G         2024/6/4         2029           Unknown         10dB attenuator         10dB         10-1         2024/6/4         2029           N/A         Coaxial Cable         NO.9         N/A         2024/6/4         2029           N/A         Coaxial Cable         NO.13         N/A         2024/6/4         2029           N/A         Coaxial Cable         NO.15         N/A         2024/6/4         2029           N/A         Coaxial Cable         NO.16         N/A         2024/6/4         2029           N/A         Coaxial Cable         NO.16         N/A         2024/6/4         2029           N/A         Coaxial Cable         NO.17         N/A         2024/6/4         2029           Audix         Test Software         E3         191218 V9         /         7	SCHWARZBECK		VULB 9163	9163-872	2023/7/7	2026/7/6		
technologies         Horn Antenna         ARH-4223-02         1007726-03         2023/7/10         2026           Oulitong         Band Reject Filter         OBSF-2400-248 3.5-50N         OE02103119         2024/6/4         2029           Unknown         6.7G High Pass Filter         Unknown         6.7G         2024/6/4         2029           Unknown         10dB attenuator         10dB         10-1         2024/6/4         2029           N/A         Coaxial Cable         NO.9         N/A         2024/6/4         2029           N/A         Coaxial Cable         NO.13         N/A         2024/6/4         2029           N/A         Coaxial Cable         NO.15         N/A         2024/6/4         2029           N/A         Coaxial Cable         NO.16         N/A         2024/6/4         2029           N/A         Coaxial Cable         NO.17         N/A         2024/6/4         2029           N/A         Coaxial Cable         NO.17         N/A         2024/6/4         2029           Audix         Test Software         E3         191218 V9         /	stro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2026/7/5		
Oulitong         Band Reject Filter         3.5-50N         OE02103119         2024/6/4         2028/4           Unknown         6.7G High Pass Filter         Unknown         6.7G         2024/6/4         2028/4           Unknown         10dB attenuator         10dB         10-1         2024/6/4         2028/4           N/A         Coaxial Cable         NO.9         N/A         2024/6/4         2028/4           N/A         Coaxial Cable         NO.13         N/A         2024/6/4         2028/4           N/A         Coaxial Cable         NO.15         N/A         2024/6/4         2028/4           N/A         Coaxial Cable         NO.16         N/A         2024/6/4         2028/4           N/A         Coaxial Cable         NO.17         N/A         2024/6/4         2028/4           Audix         Test Software         E3         191218 V9         /		Horn Antenna	ARH-4223-02	1007726-03	2023/7/10	2026/7/9		
Unknown         Filter         Unknown         6.7G         2024/6/4         2028/4           Unknown         10dB attenuator         10dB         10-1         2024/6/4         2028/4           N/A         Coaxial Cable         NO.9         N/A         2024/6/4         2028/4           N/A         Coaxial Cable         NO.13         N/A         2024/8/7         2028/4           N/A         Coaxial Cable         NO.15         N/A         2024/6/4         2028/4           N/A         Coaxial Cable         NO.16         N/A         2024/6/4         2028/4           N/A         Coaxial Cable         NO.17         N/A         2024/6/4         2028/4           Audix         Test Software         E3         191218 V9         /	Oulitong	Band Reject Filter		OE02103119	2024/6/4	2025/6/3		
N/A         Coaxial Cable         NO.9         N/A         2024/6/4         2025           N/A         Coaxial Cable         NO.13         N/A         2024/8/7         2025           N/A         Coaxial Cable         NO.15         N/A         2024/6/4         2025           N/A         Coaxial Cable         NO.16         N/A         2024/6/4         2025           N/A         Coaxial Cable         NO.17         N/A         2024/6/4         2025           Audix         Test Software         E3         191218 V9         /           RF Conducted Test	Unknown	-	Unknown	6.7G	2024/6/4	2025/6/3		
N/A         Coaxial Cable         NO.13         N/A         2024/8/7         2025           N/A         Coaxial Cable         NO.15         N/A         2024/6/4         2025           N/A         Coaxial Cable         NO.16         N/A         2024/6/4         2025           N/A         Coaxial Cable         NO.17         N/A         2024/6/4         2025           Audix         Test Software         E3         191218 V9         /           RF Conducted Test	Unknown	10dB attenuator	10dB	10-1	2024/6/4	2025/6/3		
N/A         Coaxial Cable         NO.15         N/A         2024/6/4         2025           N/A         Coaxial Cable         NO.16         N/A         2024/6/4         2025           N/A         Coaxial Cable         NO.17         N/A         2024/6/4         2025           Audix         Test Software         E3         191218 V9         /           RF Conducted Test	N/A	Coaxial Cable	NO.9	N/A	2024/6/4	2025/6/3		
N/A         Coaxial Cable         NO.16         N/A         2024/6/4         2025           N/A         Coaxial Cable         NO.17         N/A         2024/6/4         2025           Audix         Test Software         E3         191218 V9         /           RF Conducted Test	N/A	Coaxial Cable	NO.13	N/A	2024/8/7	2025/8/6		
N/A         Coaxial Cable         NO.17         N/A         2024/6/4         2025           Audix         Test Software         E3         191218 V9         /           RF Conducted Test	N/A	Coaxial Cable	NO.15	N/A	2024/6/4	2025/6/3		
Audix Test Software E3 191218 V9 /  RF Conducted Test	N/A	Coaxial Cable	NO.16	N/A	2024/6/4	2025/6/3		
RF Conducted Test	N/A	Coaxial Cable	NO.17	N/A	2024/6/4	2025/6/3		
	Audix	Test Software	E3	191218 V9	/	/		
			RF Conducted	Test				
ROHDE&         SPECTRUM         FSV40         101419         2024/6/4         2025           SCHWARZ         ANALYZER         ANALYZER         ANALYZER         101419         2024/6/4         2025	ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40	101419	2024/6/4	2025/6/3		
narda 6dB attenuator 603-06-1 N/A 2024/6/4 2025	narda	6dB attenuator	603-06-1	N/A	2024/6/4	2025/6/3		

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.



## 3 Test Results

## 3.1 Test Summary

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
-	99% Occupied Bandwidth	Report only
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance
§15.205, §15.209, §15.247(d)	Radiated emission	Compliance
-	Duty Cycle	Report only





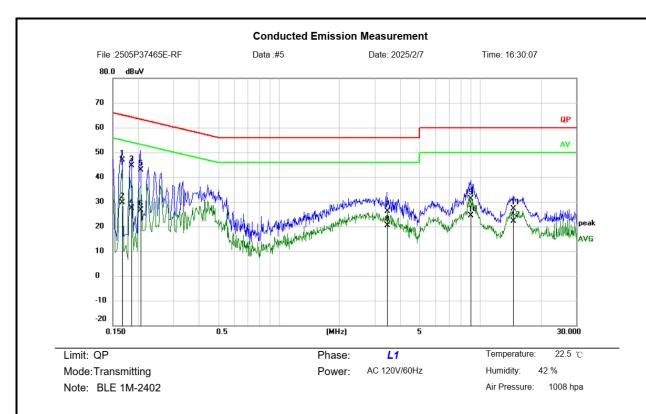
## 3.2 Limit

Test items	Limit
AC Line Conducted Emissions	See details §15.207 (a)
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.
Power Spectral Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
Spurious Emissions, 100kHz Bandwidth of Frequency Band Edge	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).



### 3.3 AC Line Conducted Emissions Test Data

Test Date:	2025-02-07	Test By:	Ryan Zhang
Environment condition:	Temperature: 22.5°C; Relative	Humidity:42%; ATM Pr	essure: 100.8kPa

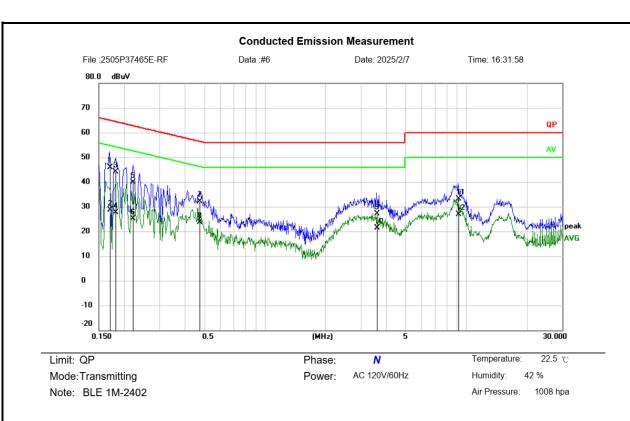


Receiver Setting: 0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1660	36.39	10.58	46.97	65.16	-18.19	QP	
2		0.1660	19.07	10.58	29.65	55.16	-25.51	AVG	
3		0.1860	34.06	10.63	44.69	64.21	-19.52	QP	
4		0.1860	16.84	10.63	27.47	54.21	-26.74	AVG	
5		0.2060	32.30	10.66	42.96	63.37	-20.41	QP	
6		0.2060	16.05	10.66	26.71	53.37	-26.66	AVG	
7		3.4420	15.51	10.55	26.06	56.00	-29.94	QP	
8		3.4420	9.90	10.55	20.45	46.00	-25.55	AVG	
9		8.9940	20.55	10.51	31.06	60.00	-28.94	QP	
10		8.9940	13.95	10.51	24.46	50.00	-25.54	AVG	
11		14.5460	16.64	10.49	27.13	60.00	-32.87	QP	
12		14.5460	11.54	10.49	22.03	50.00	-27.97	AVG	

\*:Maximum data x:Over limit !:over margin Engineer Signature: Ryan





Receiver Setting: 0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1700	35.51	10.45	45.96	64.96	-19.00	QP	
2		0.1700	18.28	10.45	28.73	54.96	-26.23	AVG	
3		0.1819	33.66	10.46	44.12	64.40	-20.28	QP	
4		0.1819	17.15	10.46	27.61	54.40	-26.79	AVG	
5		0.2220	29.27	10.49	39.76	62.74	-22.98	QP	
6		0.2220	14.66	10.49	25.15	52.74	-27.59	AVG	
7		0.4740	21.47	10.76	32.23	56.44	-24.21	QP	
8		0.4740	12.86	10.76	23.62	46.44	-22.82	AVG	
9		3.5940	16.77	10.46	27.23	56.00	-28.77	QP	
10		3.5940	10.93	10.46	21.39	46.00	-24.61	AVG	
11		9.1100	22.50	10.56	33.06	60.00	-26.94	QP	
12		9.1100	16.44	10.56	27.00	50.00	-23.00	AVG	

#### Remark:

Measurement (dBuV)= Reading Level (dBuV) + Correct Factor(dB)

x:Over limit

Correct Factor(dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

!:over margin

Over Limit= Measurement - Limit

\*:Maximum data

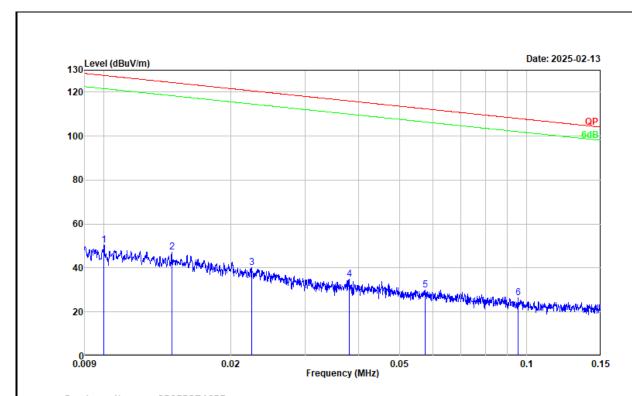
Engineer Signature: Ryan



### 3.4 Radiated emission Test Data

#### 9 kHz-30MHz:

Test Date:	2025-02-13	Test By:	Bard Huang
Environment condition:	Temperature: 21.4°C; Relative	Humidity:45%; ATM Pr	essure: 101.2kPa



Project No. : 2505P37465E Test Mode : Transmitting Test Voltage : AC 120V/60Hz

Environment :  $21.4^{\circ}$ C/45%R.H./101.2kPa

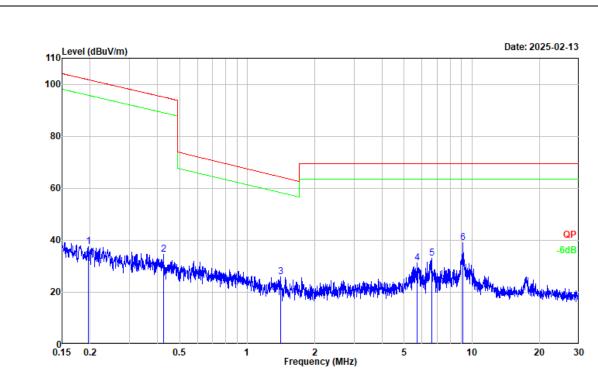
Tested by : Bard Huang Polarization : PARALLEL Remark : BLE 1M 2402

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.010	13.33	37.21	50.54	127.59	-77.05	Peak
2	0.014	12.78	34.37	47.15	124.39	-77.24	Peak
3	0.022	10.82	29.38	40.20	120.62	-80.42	Peak
4	0.038	11.89	22.86	34.75	115.99	-81.24	Peak
5	0.058	10.55	19.37	29.92	112.40	-82.48	Peak
6	0.095	11.22	15.28	26.50	108.02	-81.52	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor

Result = Reading + Factor Over Limit = Result - Limit SA setting: RBW/VBW: 200Hz/1kHz, DET: PK





Project No. : 2505P37465E Test Mode : Transmitting Test Voltage : AC 120V/60Hz

Environment : 21.4℃/45%R.H./101.2kPa

Tested by : Bard Huang Polarization : PARALLEL Remark : BLE 1M 2402

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.196	25.16	12.28	37.44	101.77	-64.33	Peak
2	0.424	27.49	7.02	34.51	95.06	-60.55	Peak
3	1.412	26.73	-0.79	25.94	64.41	-38.47	Peak
4	5.720	35.34	-4.05	31.29	69.54	-38.25	Peak
5	6.624	37.05	-4.03	33.02	69.54	-36.52	Peak
6	9.120	42.83	-3.65	39.18	69.54	-30.36	Peak

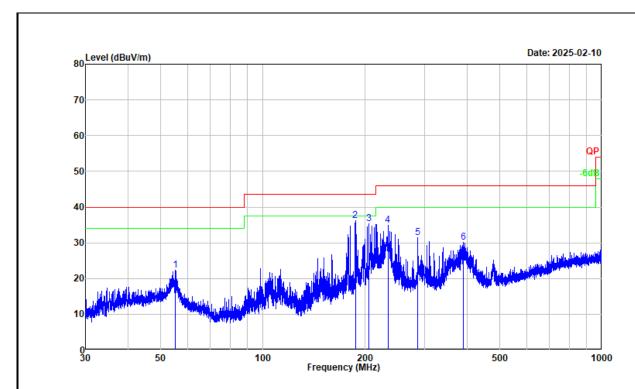
Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor

Over Limit = Result - Limit
SA setting: RBW/VBW: 9kHz/30kHz, DET: PK



#### 30MHz-1GHz:

Test Date:	2025-02-10	Test By:	Luke Li
Environment condition:	Temperature: 20.4°C; Relative	Humidity:36%; ATM Pres	ssure: 101.6kPa



Project No. : 2505P37465E Test Mode : Transmitting Test Voltage : AC 120V/60Hz

Environment :  $20.4^{\circ}\text{C}/36\%\text{R.H.}/101.6\text{kPa}$ 

Tested by : Luke Li Polarization : horizontal Remark : BLE 1M 2402

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	_
1	55.342	35.13	-12.69	22.44	40.00	-17.56	Peak	
2	187.424	51.12	-14.83	36.29	43.50	-7.21	Peak	
3	205.405	49.04	-13.73	35.31	43.50	-8.19	Peak	
4	233.758	47.80	-12.80	35.00	46.00	-11.00	Peak	
5	286.103	43.08	-11.58	31.50	46.00	-14.50	Peak	
6	390.894	39.02	-8.87	30.15	46.00	-15.85	Peak	
6	390.894	39.02	-8.87	30.15	46.00	-15.85	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

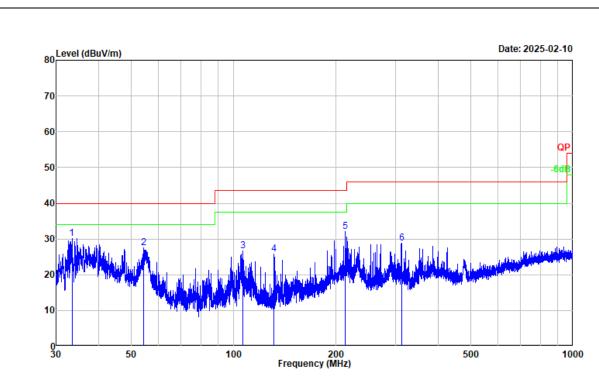
Result = Reading + Factor

Over Limit = Result - Limit

SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK

Final measure: RBW: 120kHz, DET: QP





Project No. : 2505P37465E Test Mode : Transmitting Test Voltage : AC 120V/60Hz

Environment : 20.4℃/36%R.H./101.6kPa

Tested by : Luke Li Polarization : vertical Remark : BLE 1M 2402

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	33.416	45.12	-15.00	30.12	40.00	-9.88	Peak
2	54.309	40.05	-12.47	27.58	40.00	-12.42	Peak
3	106.712	40.45	-13.88	26.57	43.50	-16.93	Peak
4	131.758	42.97	-17.23	25.74	43.50	-17.76	Peak
5	212.829	45.93	-13.77	32.16	43.50	-11.34	Peak
6	312.316	39.93	-11.00	28.93	46.00	-17.07	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor

Result = Reading + Factor

Over Limit = Result - Limit

SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK Final measure: RBW: 120kHz, DET: QP





#### Above 1GHz:

#### Path 1:

Test Date:	2025-02-17	Test By:	Bard Huang
Environment condition:	Temperature: 23°C; Relative H	umidity:62%; ATM Pres	ssure: 101.5kPa

Frequency (MHz)	Reading level (dBµV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark		
			BLE	1M					
Low Channel									
4804.000	47.83	horizontal	-2.42	45.41	74.00	-28.59	Peak		
4804.000	48.32	vertical	-2.42	45.90	74.00	-28.10	Peak		
Middle Channel									
4880.000	47.38	horizontal	-1.88	45.50	74.00	-28.50	Peak		
4880.000	48.36	vertical	-1.88	46.48	74.00	-27.52	Peak		
High Channel									
4960.000	47.58	horizontal	-1.70	45.88	74.00	-28.12	Peak		
4960.000	47.90	vertical	-1.70	46.20	74.00	-27.80	Peak		
			BLE 2	2M					
			Low Cha	annel					
4804.000	47.75	horizontal	-2.42	45.33	74.00	-28.67	Peak		
4804.000	48.63	vertical	-2.42	46.21	74.00	-27.79	Peak		
Middle Channel									
4880.000	47.51	horizontal	-1.88	45.63	74.00	-28.37	Peak		
4880.000	50.34	vertical	-1.88	48.46	74.00	-25.54	Peak		
High Channel									
4960.000	49.12	horizontal	-1.70	47.42	74.00	-26.58	Peak		
4960.000	48.19	vertical	-1.70	46.49	74.00	-27.51	Peak		

#### Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Corrected Amplitude - Limit

For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

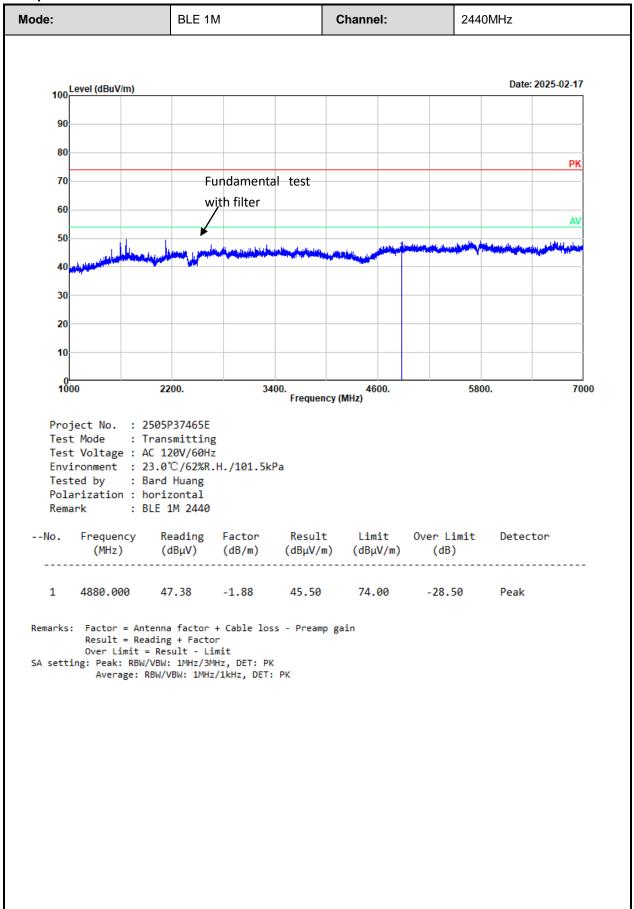
The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

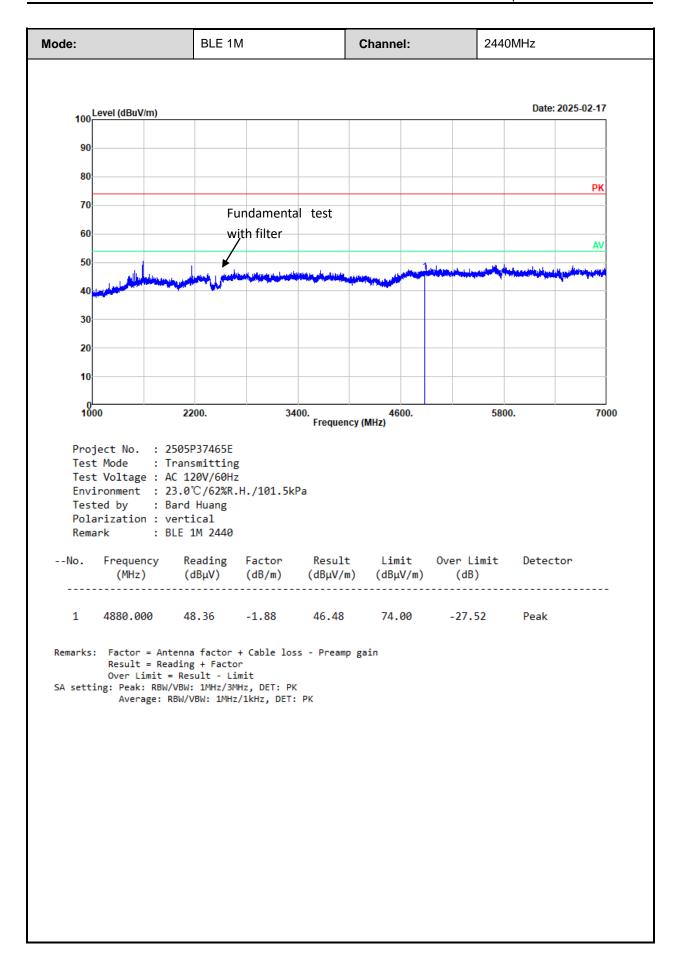
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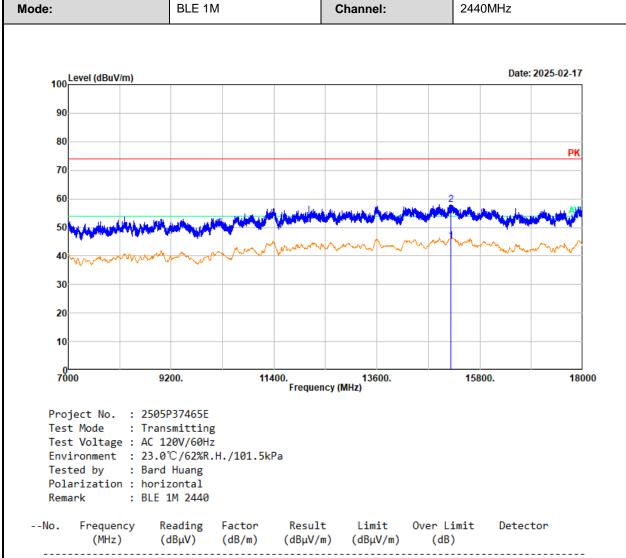
#### Test plot for worst case as below:











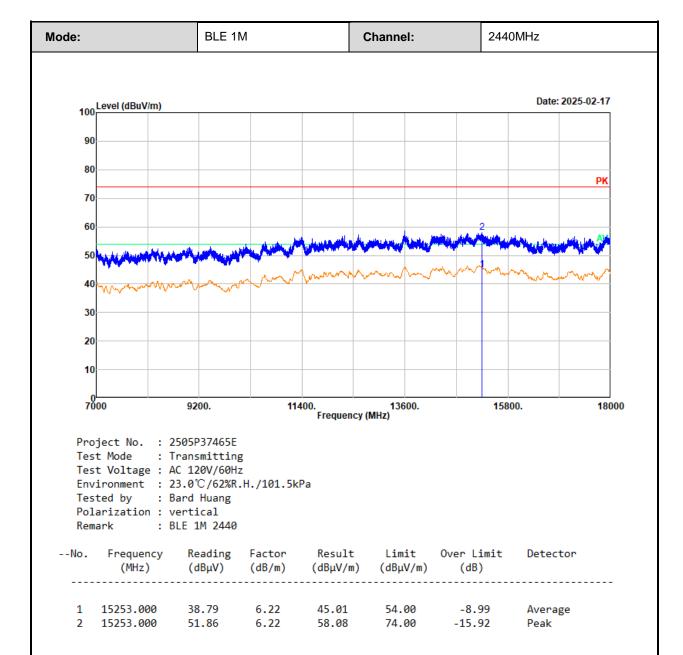
(MHz) (dBµV) (dB/m) (dBµV/m) (dBµV/m) (dB)

1 15177.000 38.98 6.27 45.25 54.00 -8.75 Average
2 15177.000 51.60 6.27 57.87 74.00 -16.13 Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor Over Limit = Result - Limit

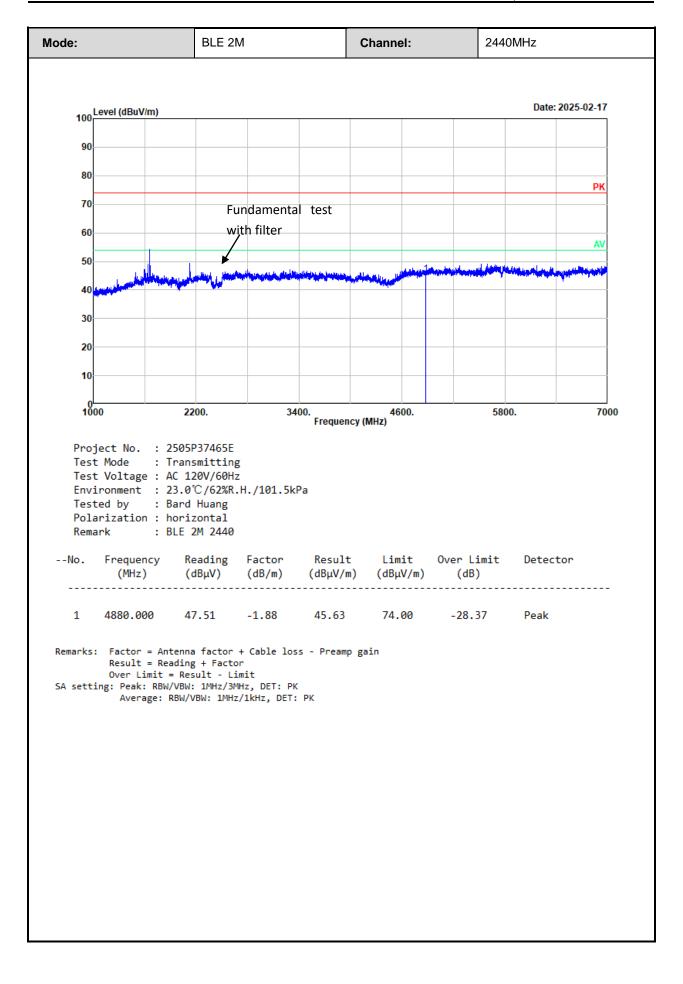




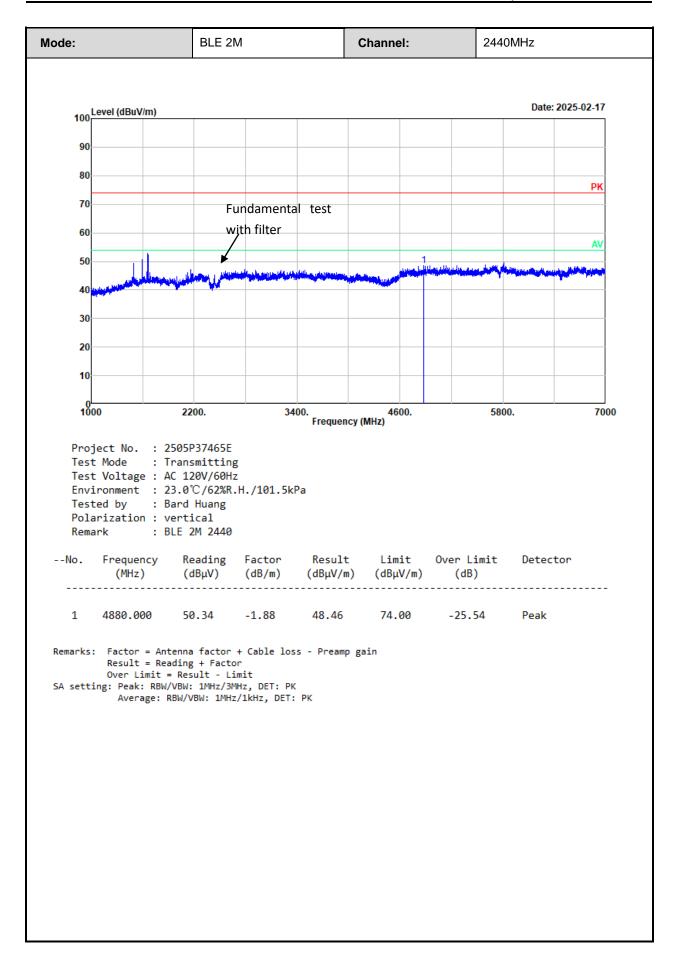
Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor Over Limit = Result - Limit

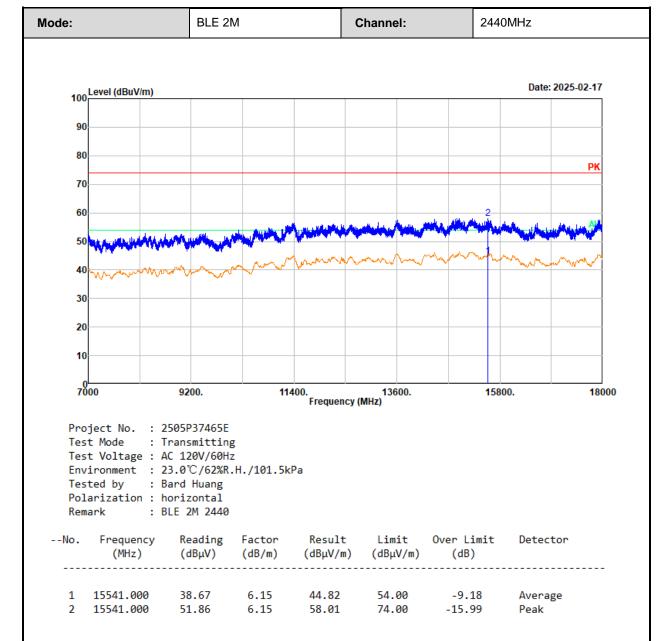








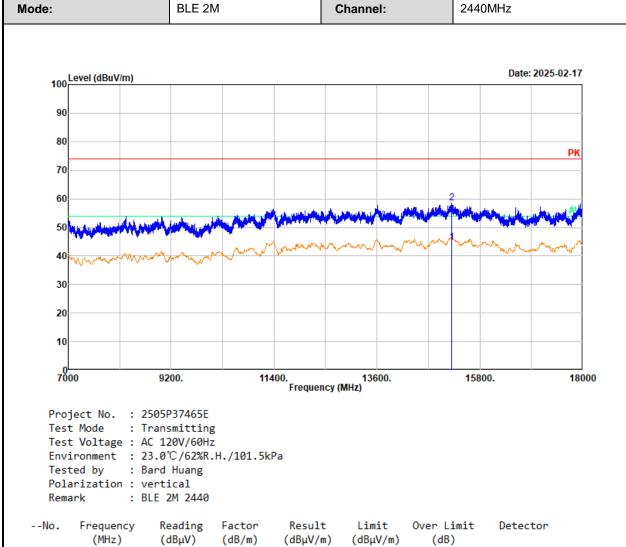




Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor Over Limit = Result - Limit





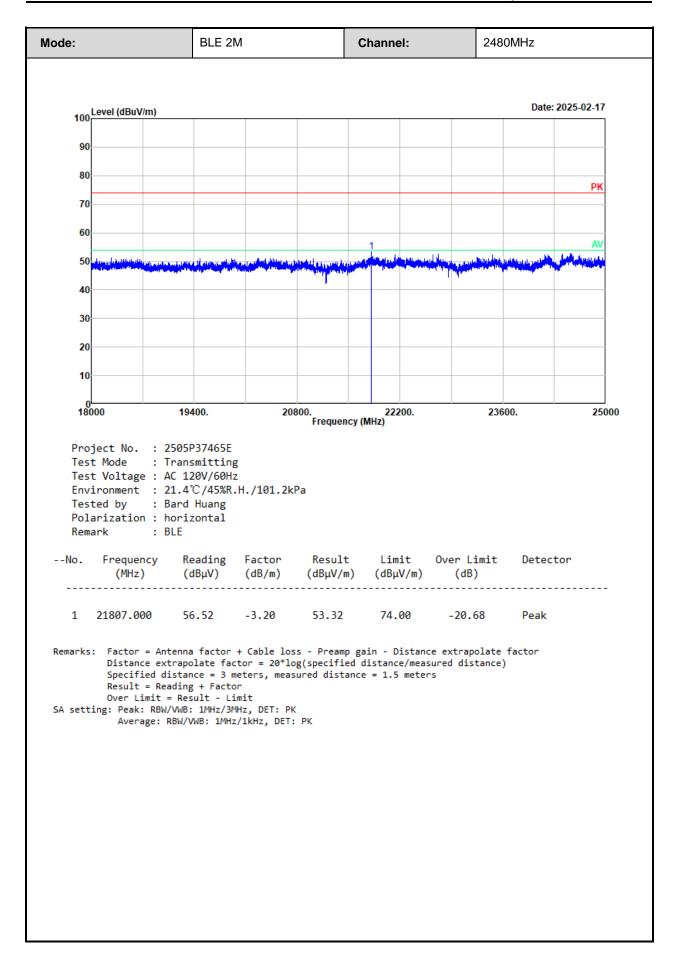
(MHz) (dBμV) (dB/m) (dBμV/m) (dBμV/m) (dB)

1 15195.000 38.45 6.30 44.75 54.00 -9.25 Average
2 15195.000 52.18 6.30 58.48 74.00 -15.52 Peak

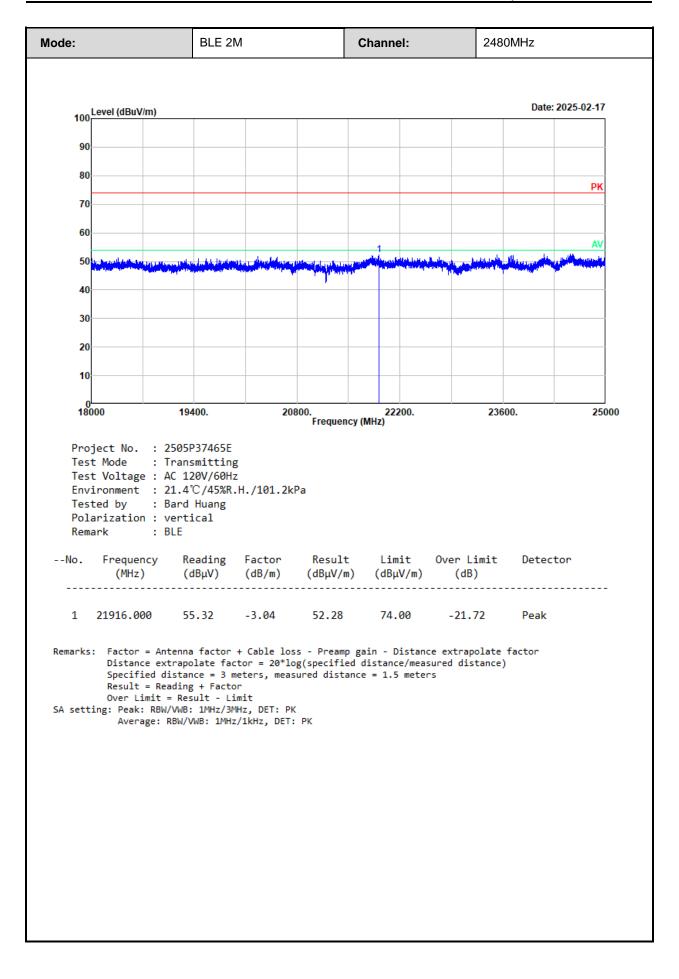
Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor

Result = Reading + Factor
Over Limit = Result - Limit

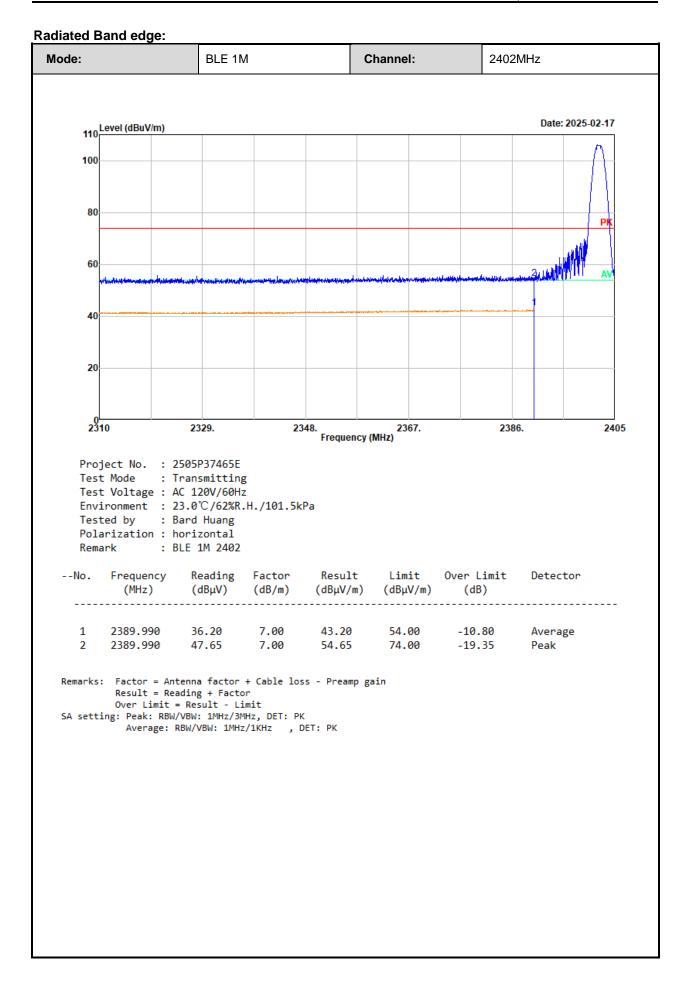






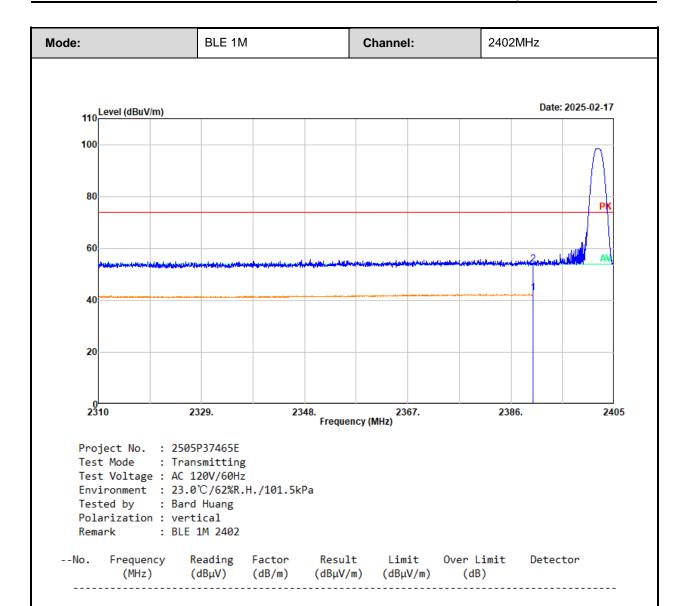






Average Peak





Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor

Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1KHz , DET: PK

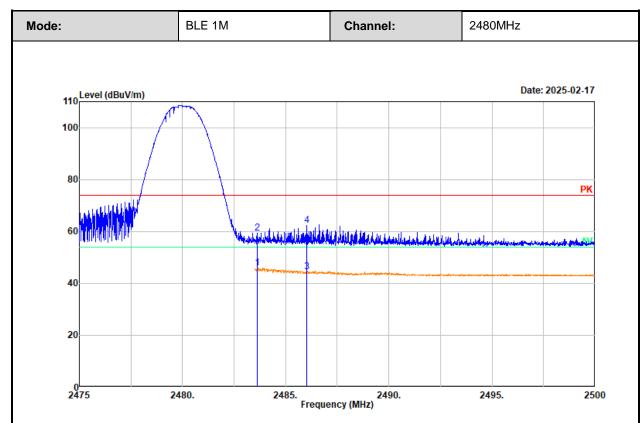
2389.990 36.05 7.00 2389.990 46.97 7.00

1

2

43.05 54.00 -10.95 53.97 74.00 -20.03





Project No. : 2505P37465E Test Mode : Transmitting Test Voltage : AC 120V/60Hz

Environment :  $23.0\,^{\circ}\text{C}/62\%\text{R.H.}/101.5\text{kPa}$ 

Tested by : Bard Huang Polarization : horizontal Remark : BLE 1M 2480

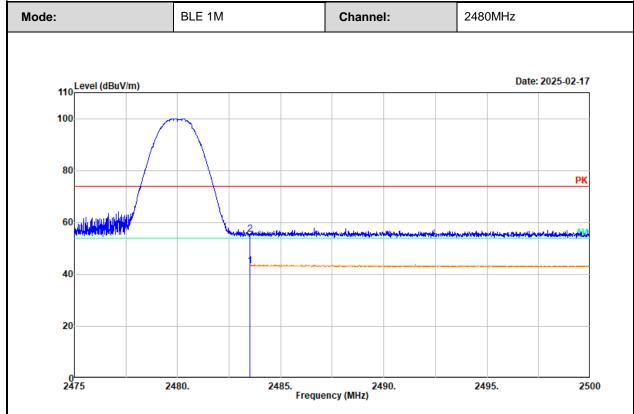
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	2483.613	38.57	7.20	45.77	54.00	-8.23	Average
2	2483.613	52.25	7.20	59.45	74.00	-14.55	Peak
3	2486.038	37.18	7.20	44.38	54.00	-9.62	Average
4	2486.038	55.06	7.20	62.26	74.00	-11.74	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor

Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK Average: RBW/VBW: 1MHz/1KHz , DET: PK





Project No. : 2505P37465E Test Mode : Transmitting Test Voltage : AC 120V/60Hz

Environment : 23.0℃/62%R.H./101.5kPa Tested by : Bard Huang

Polarization : vertical : BLE 1M 2480 Remark

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	2483.500	36.09	7.20	43.29	54.00	-10.71	Average	
2	2483.500	48.11	7.20	55.31	74.00	-18.69	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

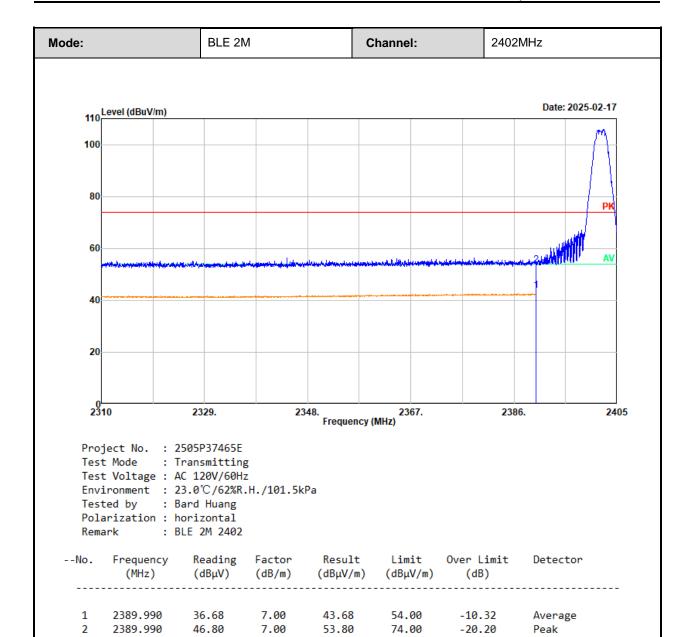
Result = Reading + Factor

Over Limit = Result - Limit

SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK

Average: RBW/VBW: 1MHz/1KHz , DET: PK





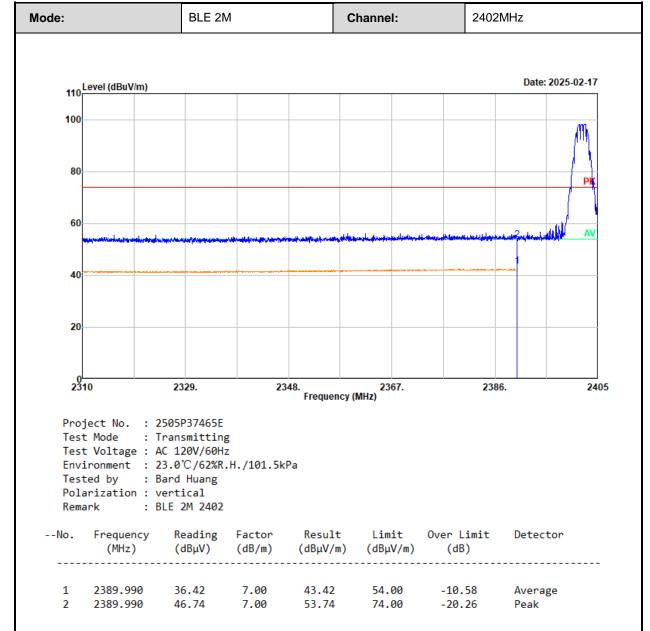
Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor Over Limit = Result - Limit

SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK

Average: RBW/VBW: 1MHz/1KHz , DET: PK



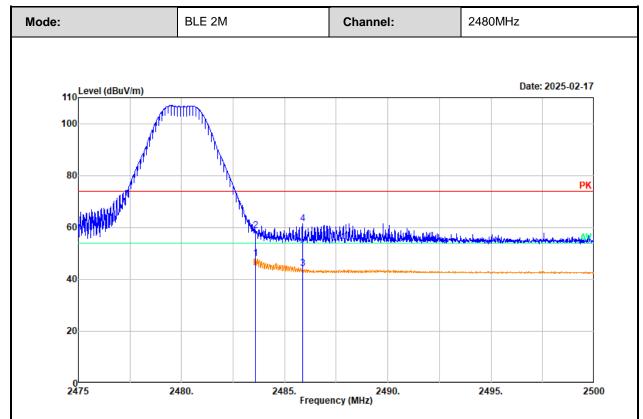


Result = Reading + Factor Over Limit = Result - Limit

SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK

Average: RBW/VBW: 1MHz/1KHz , DET: PK





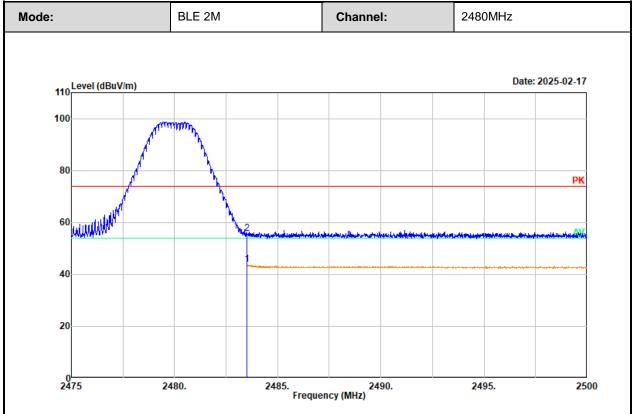
Environment : 23.0℃/62%R.H./101.5kPa Tested by : Bard Huang

Polarization : horizontal : BLE 2M 2480

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	2483.575	40.73	7.20	47.93	54.00	-6.07	Average
2	2483.575	51.61	7.20	58.81	74.00	-15.19	Peak
3	2485.875	36.87	7.20	44.07	54.00	-9.93	Average
4	2485.875	54.15	7.20	61.35	74.00	-12.65	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor





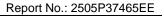
Environment : 23.0℃/62%R.H./101.5kPa Tested by : Bard Huang

Polarization : vertical : BLE 2M 2480 Remark

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	2483.500	36.53	7.20	43.73	54.00	-10.27	Average
2	2483.500	48.45	7.20	55.65	74.00	-18.35	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor





## Path 2

Test Date:	2025-02-13~2025-02-17	Test By:	Bard Huang
Environment condition:	Temperature: 20.9~23°C; Rela 101.2~101.5kPa	tive Humidity:56~62%;	ATM Pressure:

Frequency (MHz)	Reading level (dBµV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark					
BLE 1M												
Low Channel												
4804.000	47.28	horizontal	44.86	74.00	-29.14	Peak						
4804.000	48.94	vertical	-2.42	46.52	74.00	-27.48	Peak					
			Middle C	hannel								
4880.000	48.24	horizontal	-1.88	46.36	74.00	-27.64	Peak					
4880.000	47.88	vertical	-1.88	46.00	74.00	-28.00	Peak					
			High Ch	annel								
4960.000	49.57	horizontal	-1.70	47.87	74.00	-26.13	Peak					
4960.000	50.17	vertical	-1.70	48.47	74.00	-25.53	Peak					
			BLE 2	2M								
			Low Cha	annel								
4804.000	47.96	horizontal	-2.42	45.54	74.00	-28.46	Peak					
4804.000	47.33	vertical	-2.42	44.91	74.00	-29.09	Peak					
			Middle Cl	hannel								
4880.000	47.49	horizontal	-1.88	45.61	74.00	-28.39	Peak					
4880.000	48.91	vertical	-1.88	47.03	74.00	-26.97	Peak					
		<del>,</del>	High Ch	annel								
4960.000	48.03	horizontal	-1.70	46.33	74.00	-27.67	Peak					
4960.000	48.64	vertical	-1.70	46.94	74.00	-27.06	Peak					

### Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Corrected Amplitude - Limit

For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

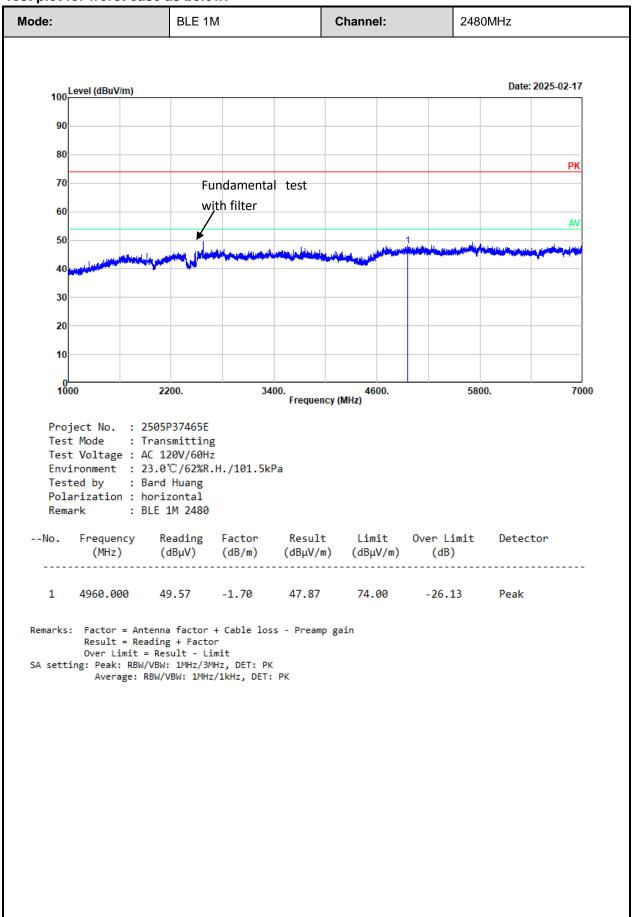
The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

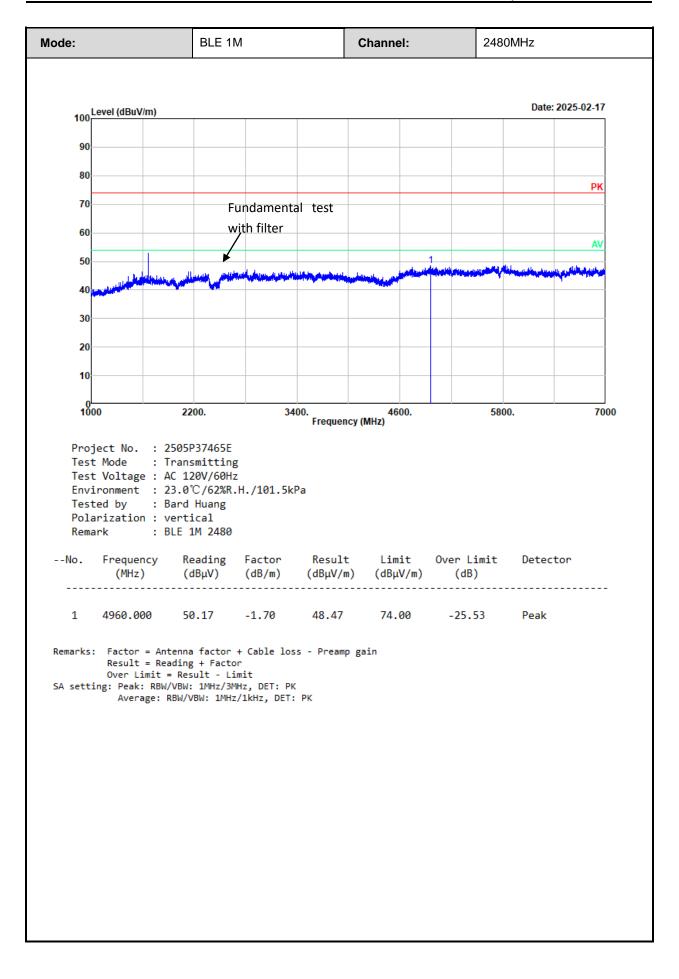
Report Template: TR-4-E-008/V1.2 Page 40 of 90



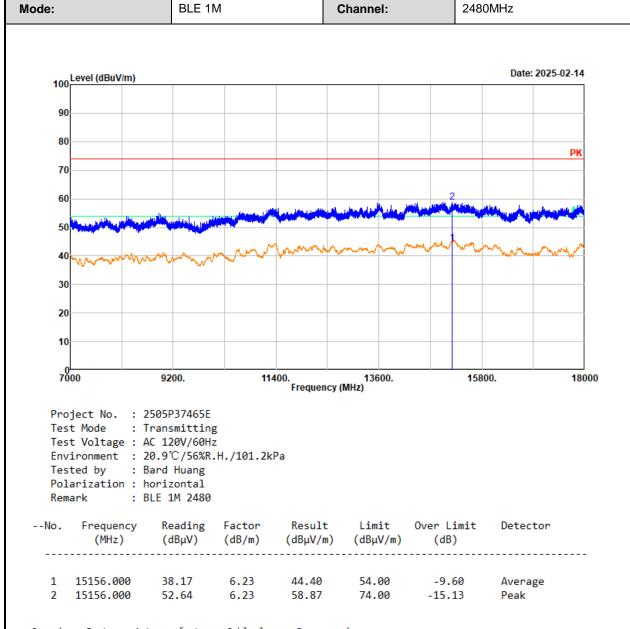
# Test plot for worst case as below:







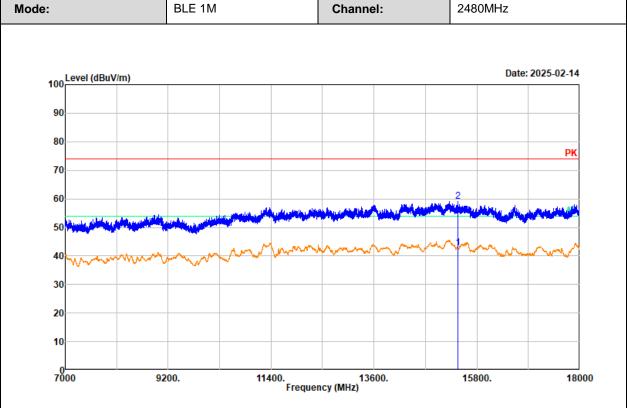




Result = Reading + Factor
Over Limit = Result - Limit

SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK





Environment :  $20.9^{\circ}$ C/56%R.H./101.2kPa

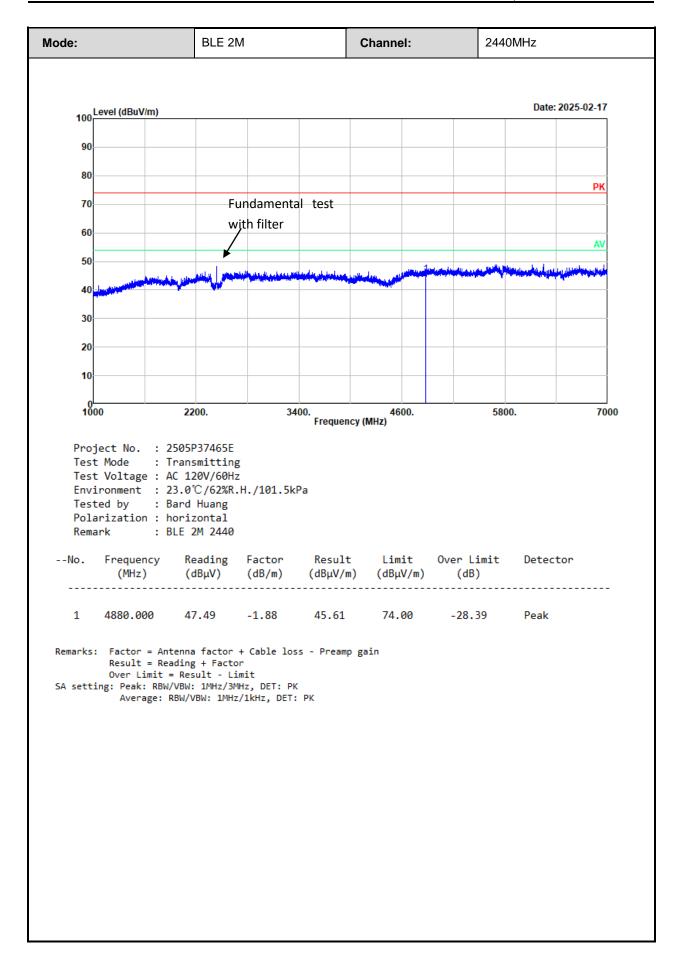
Tested by : Bard Huang Polarization : vertical Remark : BLE 1M 2480

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	15396.000	36.04	6.68	42.72	54.00	-11.28	Average
2	15396.000	52.40	6.68	59.08	74.00	-14.92	Peak

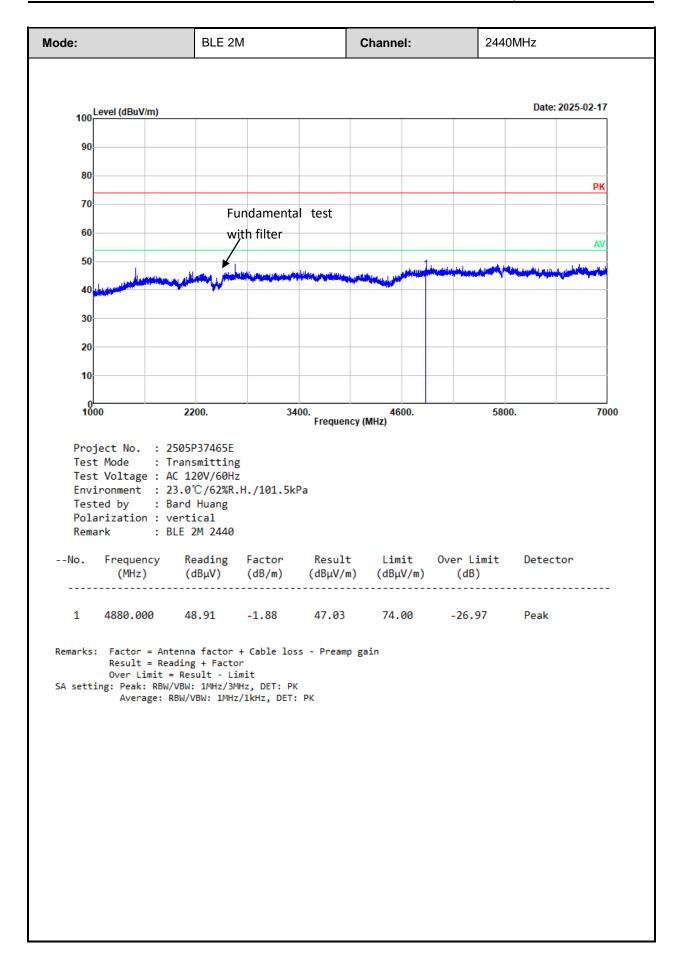
Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor

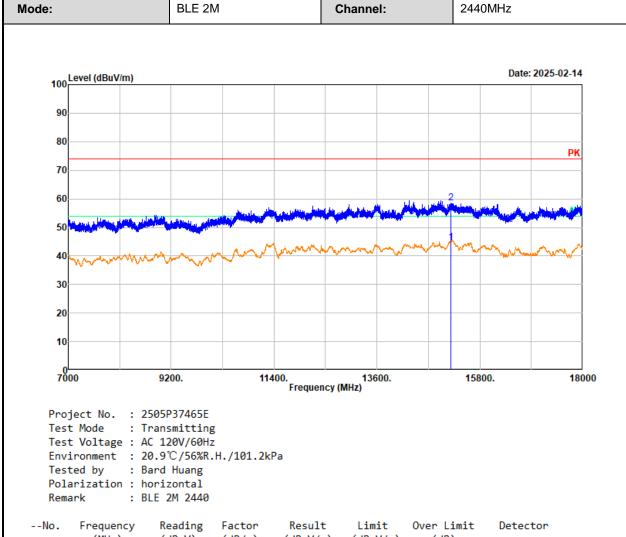








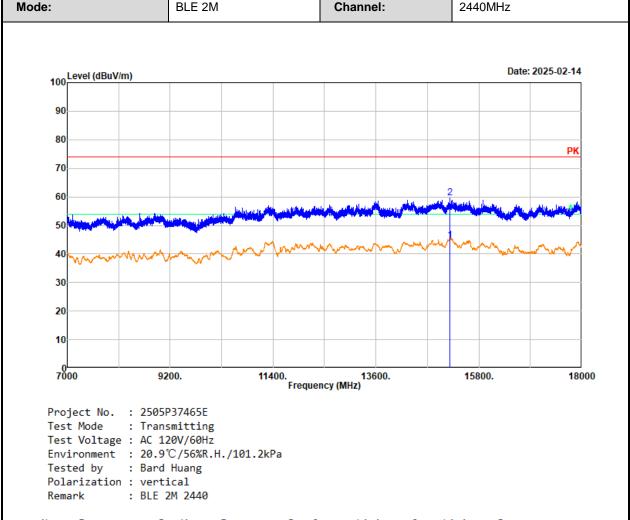




No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1 2	15185.000 15185.000	38.56 52.18	6.28 6.28	44.84 58.46	54.00 74.00	-9.16 -15.54	Average Peak	

Result = Reading + Factor





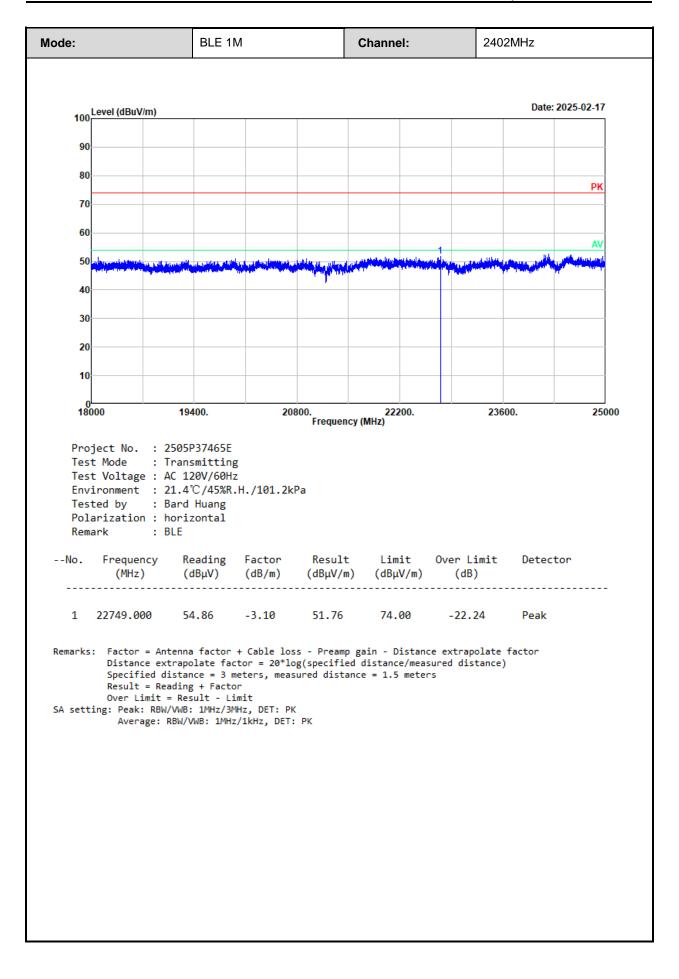
--No. Frequency Reading Factor Result Limit Over Limit Detector
(MHz) (dBμV) (dB/m) (dBμV/m) (dBμV/m) (dB)

1 15187.000 38.51 6.28 44.79 54.00 -9.21 Average
2 15187.000 53.31 6.28 59.59 74.00 -14.41 Peak

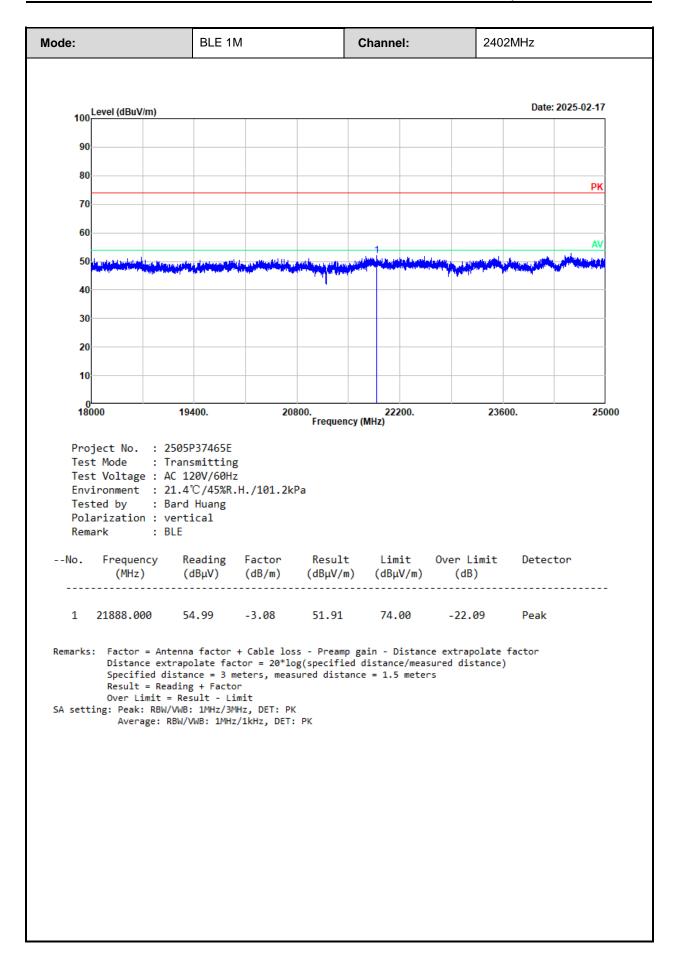
Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor Over Limit = Result - Limit

SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK Average: RBW/VBW: 1MHz/1kHz, DET: PK



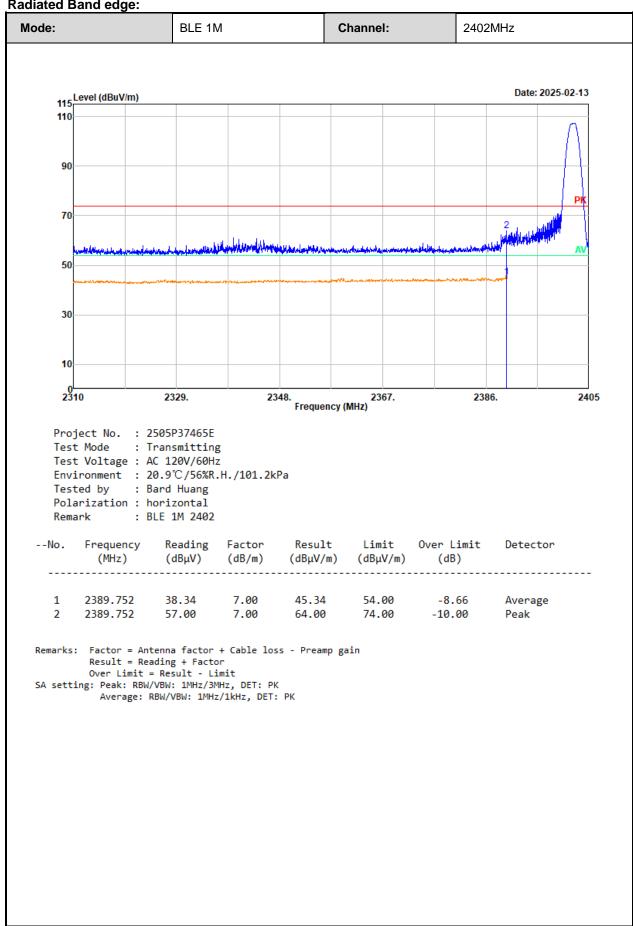




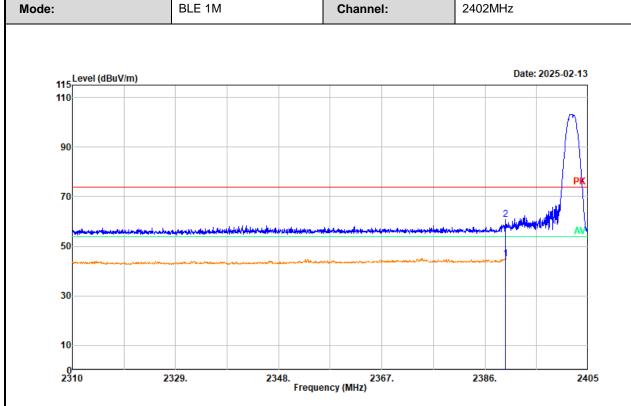




Radiated Band edge:







Environment :  $20.9^{\circ}$ C/56%R.H./101.2kPa

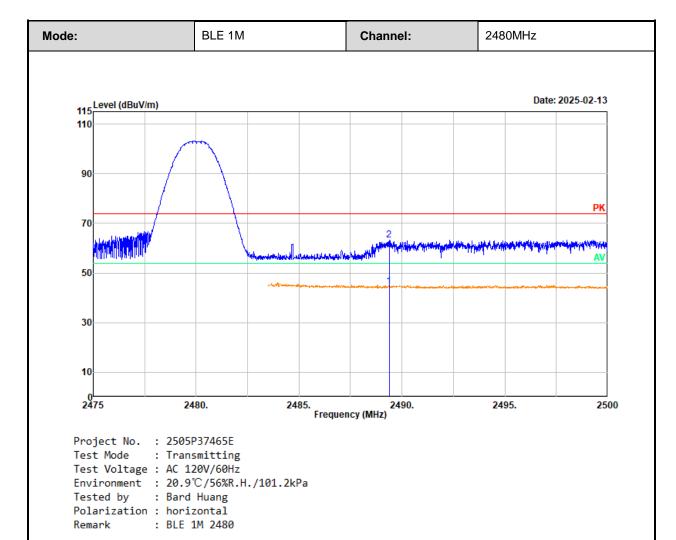
Tested by : Bard Huang Polarization : vertical Remark : BLE 1M 2402

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	2389.705	37.95	7.00	44.95	54.00	-9.05	Average	_
2	2389.705	53.65	7.00	60.65	74.00	-13.35	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor

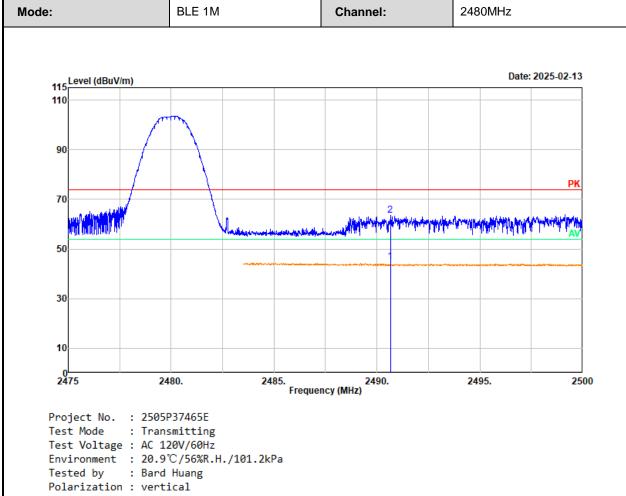




No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1 2	2489.375	37.30	7.21	44.51	54.00	-9.49	Average
	2489.375	56.10	7.21	63.31	74.00	-10.69	Peak

Result = Reading + Factor





Remark : BLE 1M 2480

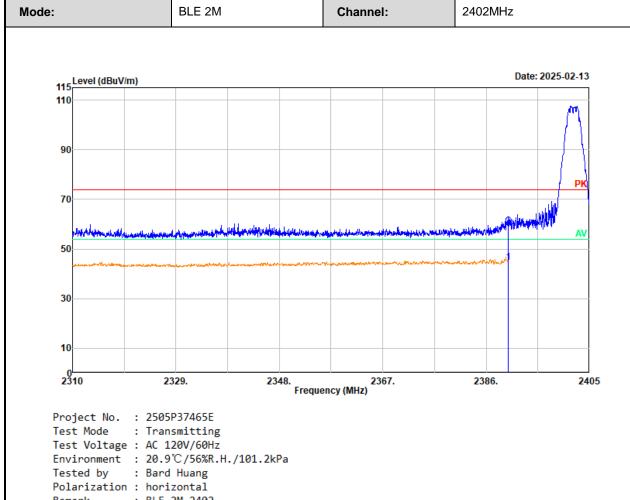
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	2490.650	37.79	7.22	45.01	54.00	-8.99	Average	
2	2490.650	56.23	7.22	63.45	74.00	-10.55	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor

Detector





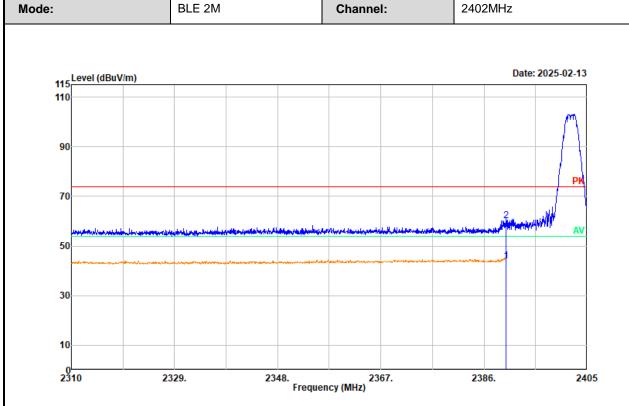
	ark :				
No.	Frequency (MHz)	Reading (dBμV)	Result (dBµV/m)	Over Limit (dB)	

1	2389.990	37.53	7.00	44.53	54.00	-9.47	Average
2	2389.990	52.11	7.00	59.11	74.00	-14.89	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor





Environment :  $20.9^{\circ}$ C/56%R.H./101.2kPa

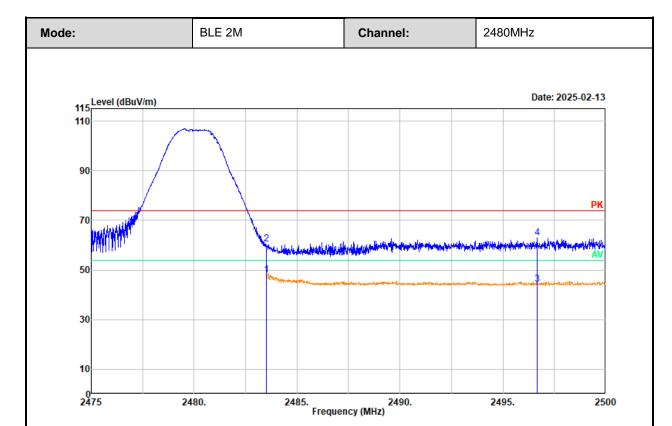
Tested by : Bard Huang Polarization : vertical Remark : BLE 2M 2402

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	2389.990	37.09	7.00	44.09	54.00	-9.91	Average	
2	2389.990	53.15	7.00	60.15	74.00	-13.85	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor





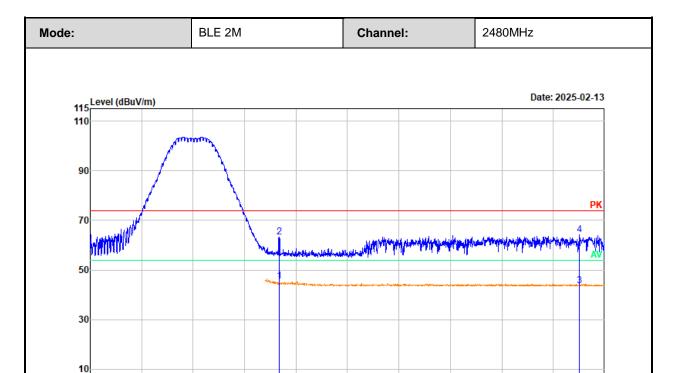
Environment :  $20.9^{\circ}$ C/56%R.H./101.2kPa

Tested by : Bard Huang Polarization : horizontal Remark : BLE 2M 2480

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	2483.500	40.67	7.20	47.87	54.00	-6.13	Average
2	2483.500	53.29	7.20	60.49	74.00	-13.51	Peak
3	2496.650	37.00	7.23	44.23	54.00	-9.77	Average
4	2496.650	55.76	7.23	62.99	74.00	-11.01	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor





2475

Environment :  $20.9^{\circ}$ C/56%R.H./101.2kPa

2480.

Tested by : Bard Huang Polarization : vertical Remark : BLE 2M 2480

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	2484.175	38.43	7.20	45.63	54.00	-8.37	Average
2	2484.175	55.96	7.20	63.16	74.00	-10.84	Peak
3	2498.762	36.30	7.25	43.55	54.00	-10.45	Average
4	2498.762	56.83	7.25	64.08	74.00	-9.92	Peak

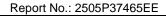
2485. Frequency (MHz)

2490.

2495.

2500

Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor





## Path 3:

Test Date:	2025-02-13~2025-02-17 <b>Test By:</b>		Bard Huang	
Environment condition:	Temperature: 20.9~23°C; Rela 101.2~101.5kPa	tive Humidity:56~62%;	ATM Pressure:	

Frequency (MHz)	Reading level (dBµV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark				
BLE 1M											
Low Channel											
4804.000	47.54	horizontal	-2.42	45.12	74.00	-28.88	Peak				
4804.000	48.59	vertical	-2.42	46.17	74.00	-27.83	Peak				
			Middle C	hannel							
4880.000	47.37	horizontal	-1.88	45.49	74.00	-28.51	Peak				
4880.000	47.18	vertical	-1.88	45.30	74.00	-28.70	Peak				
			High Ch	annel							
4960.000	47.86	horizontal	-1.70	46.16	74.00	-27.84	Peak				
4960.000	47.56	vertical	-1.70	45.86	74.00	-28.14	Peak				
			BLE 2	2M							
			Low Ch	annel							
4804.000	47.90	horizontal	-2.42	45.48	74.00	-28.52	Peak				
4804.000	48.02	vertical	-2.42	45.60	74.00	-28.40	Peak				
			Middle C	hannel							
4880.000	48.27	horizontal	-1.88	46.39	74.00	-27.61	Peak				
4880.000	48.18	vertical	-1.88	46.30	74.00	-27.70	Peak				
High Channel											
4960.000	47.25	horizontal	-1.70	45.55	74.00	-28.45	Peak				
4960.000	48.08	vertical	-1.70	46.38	74.00	-27.62	Peak				

### Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Corrected Amplitude - Limit

For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

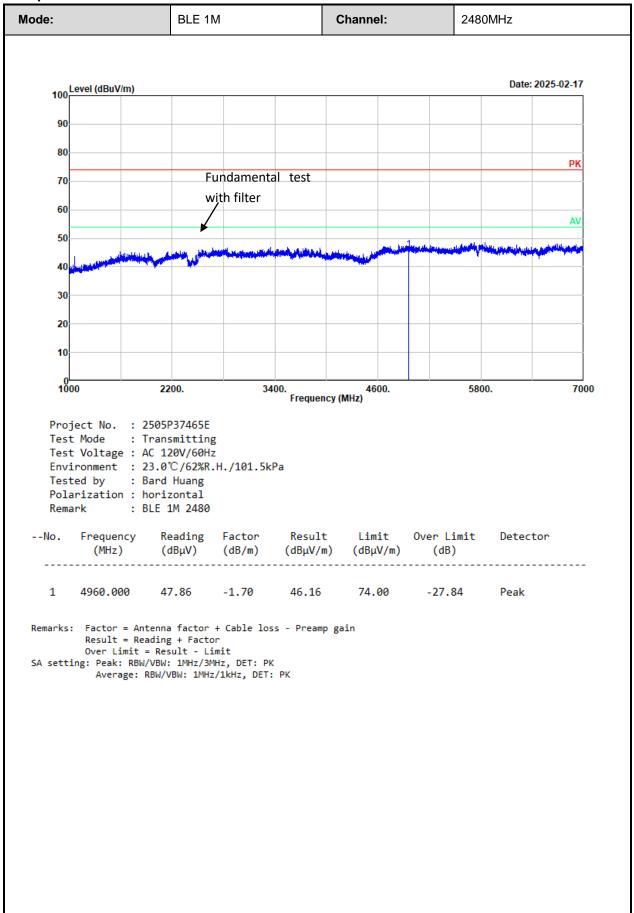
The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

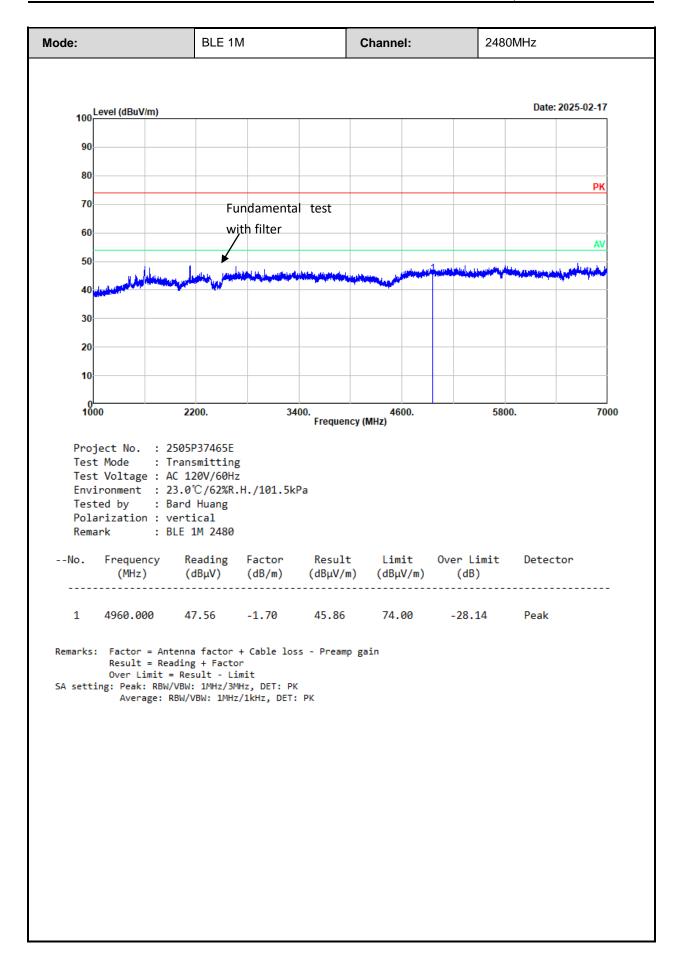
Report Template: TR-4-E-008/V1.2 Page 59 of 90



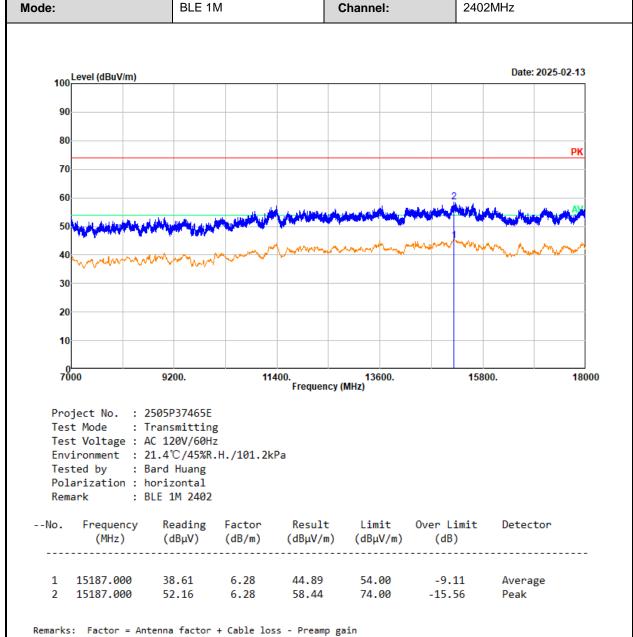
# Test plot for worst case as below:







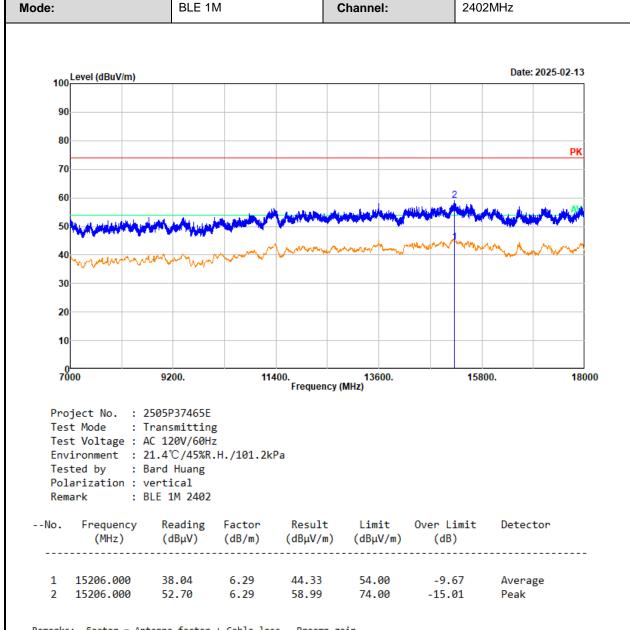




Result = Reading + Factor Over Limit = Result - Limit

SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK Average: RBW/VWB: 1MHz/1kHz, DET: PK

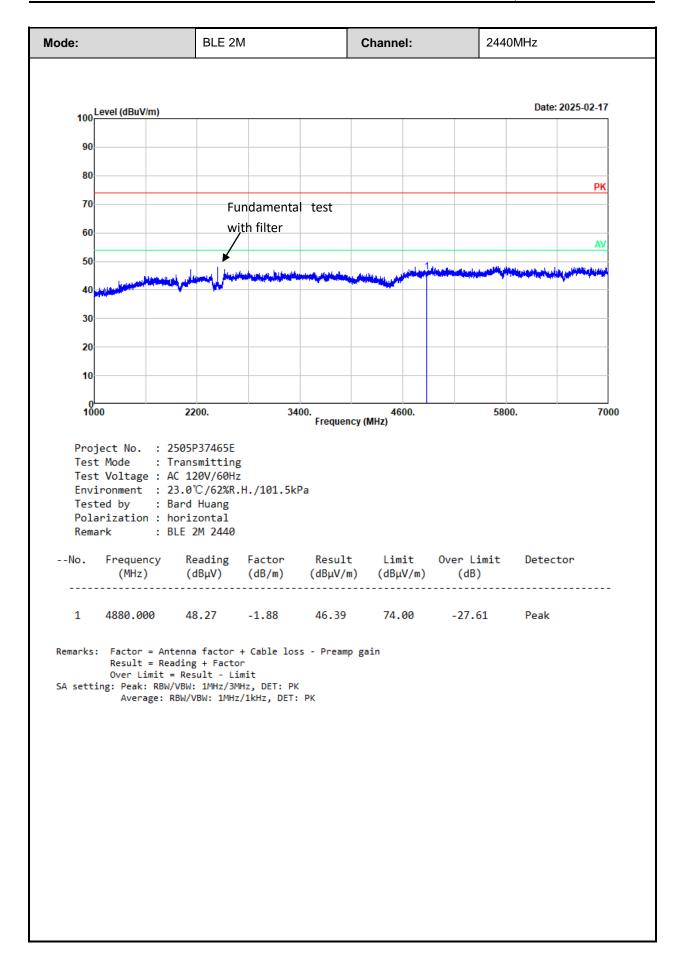




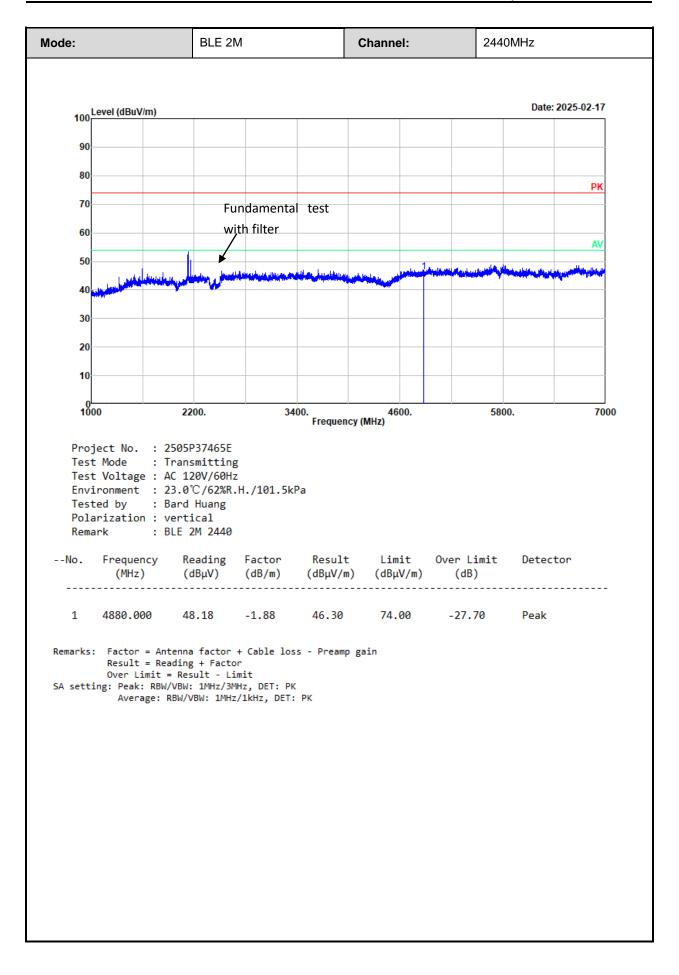
Result = Reading + Factor Over Limit = Result - Limit

SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

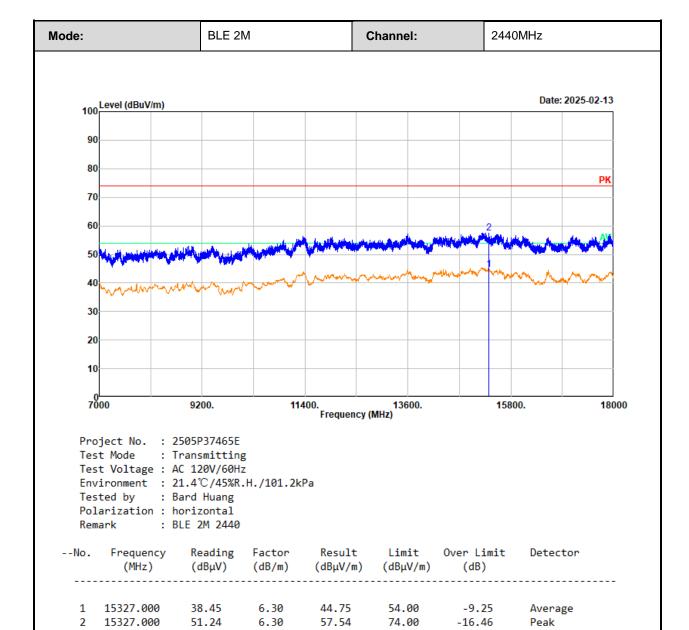








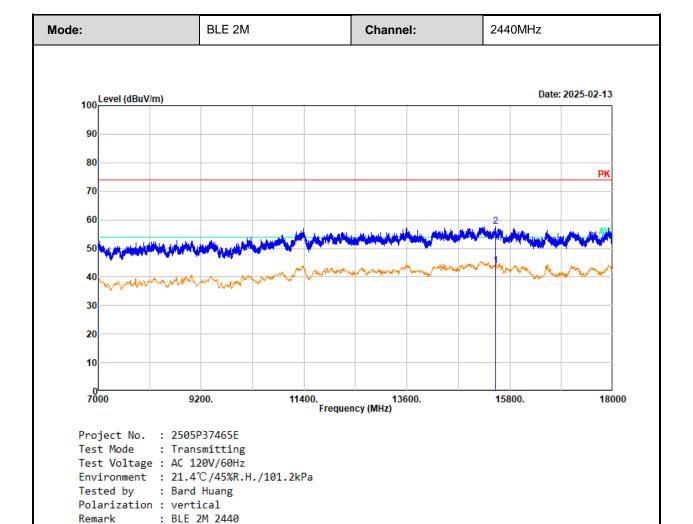




Result = Reading + Factor Over Limit = Result - Limit

SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

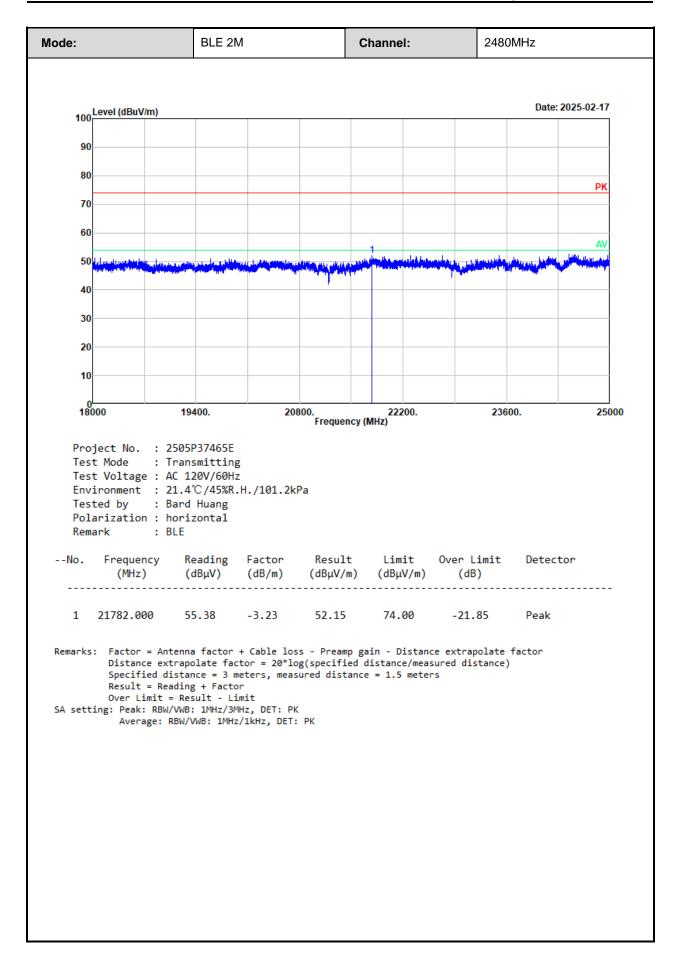




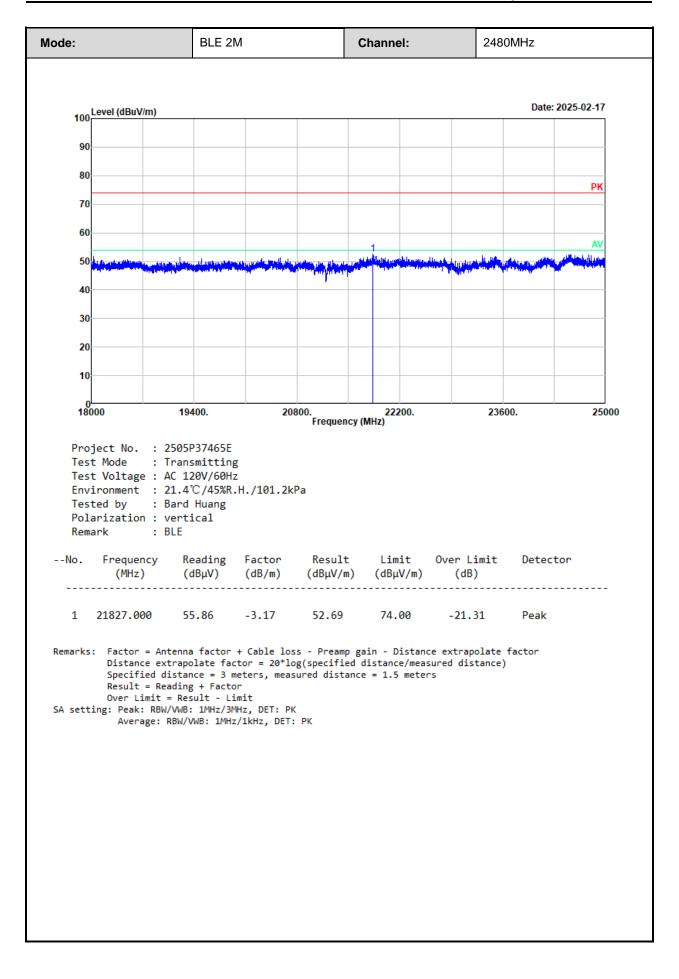
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1 2	15492.000	37.65	6.25	43.90	54.00	-10.10	Average
	15492.000	51.40	6.25	57.65	74.00	-16.35	Peak

Result = Reading + Factor



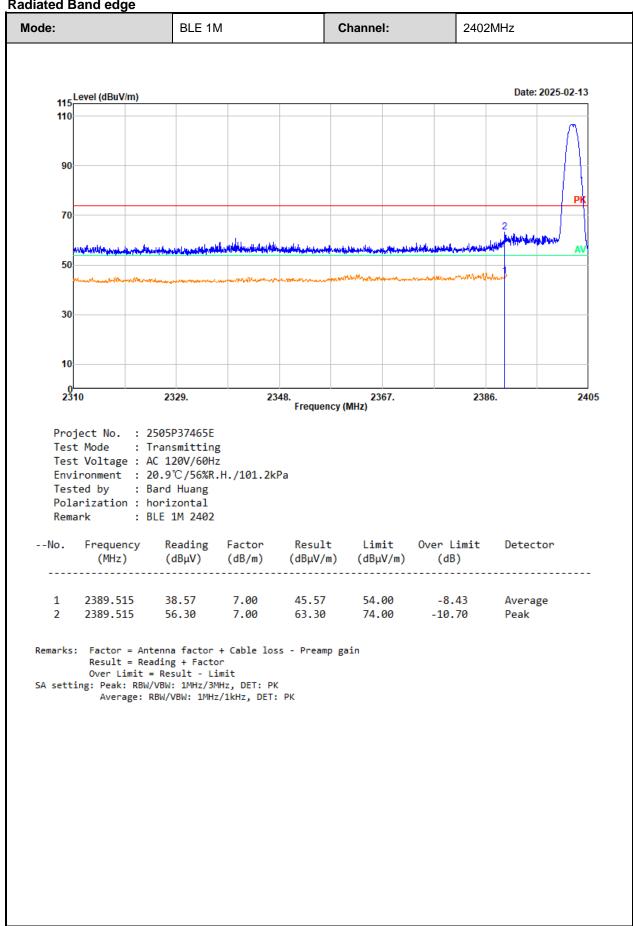




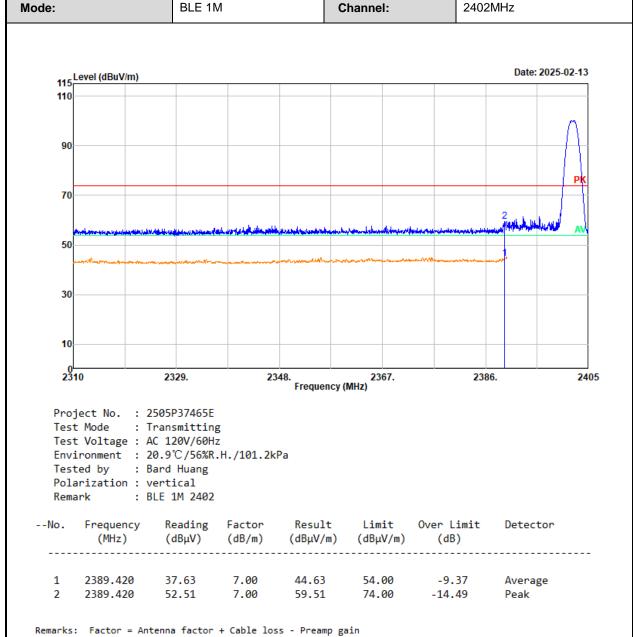




Radiated Band edge



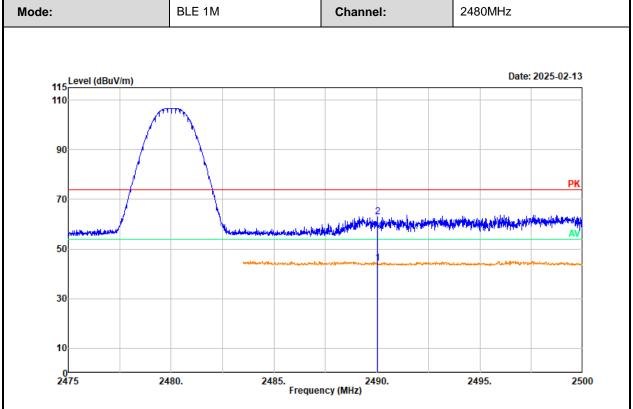




Result = Reading + Factor Over Limit = Result - Limit

SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK Average: RBW/VBW: 1MHz/1kHz, DET: PK





Environment :  $20.9^{\circ}$ C/56%R.H./101.2kPa

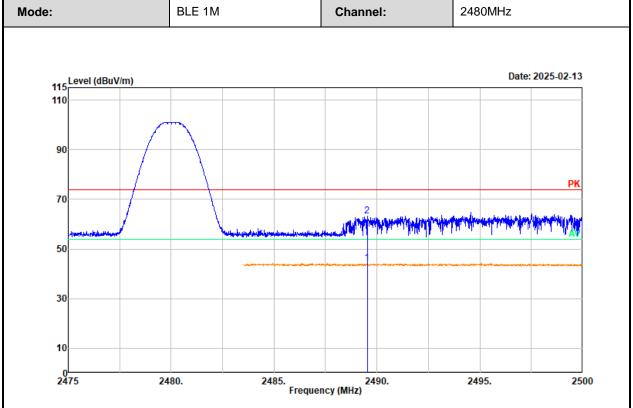
Tested by : Bard Huang Polarization : horizontal Remark : BLE 1M 2480

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	2490.025	37.13	7.22	44.35	54.00	-9.65	Average	
2	2490.025	55.63	7.22	62.85	74.00	-11.15	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor





Project No. : 2505P37465E Test Mode : Transmitting Test Voltage : AC 120V/60Hz

Environment :  $20.9^{\circ}$ C/56%R.H./101.2kPa

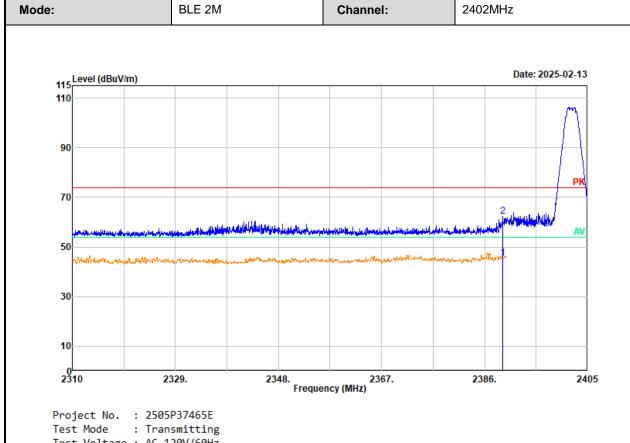
Tested by : Bard Huang Polarization : vertical Remark : BLE 1M 2480

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	2489.525	37.06	7.21	44.27	54.00	-9.73	Average
2	2489.525	56.02	7.21	63.23	74.00	-10.77	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor





Test Voltage : AC 120V/60Hz

Environment :  $20.9^{\circ}/56\%R.H./101.2kPa$ 

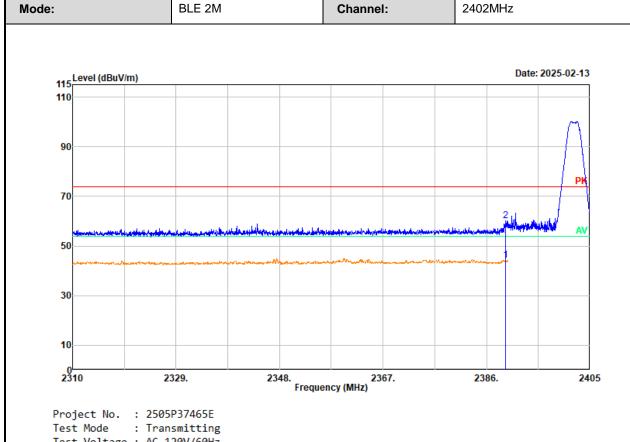
Tested by : Bard Huang Polarization : horizontal Remark : BLE 2M 2402

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	2389.325	38.54	7.00	45.54	54.00	-8.46	Average	
2	2389.325	55.40	7.00	62.40	74.00	-11.60	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor





Test Voltage : AC 120V/60Hz

Environment :  $20.9^{\circ}$ C/56%R.H./101.2kPa

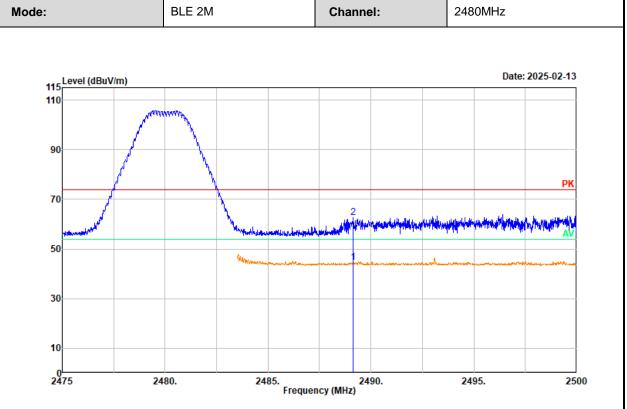
Tested by : Bard Huang Polarization : vertical : BLE 2M 2402 Remark

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	2389.468	37.22	7.00	44.22	54.00	-9.78	Average
2	2389.468	53.03	7.00	60.03	74.00	-13.97	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor





Project No. : 2505P37465E Test Mode : Transmitting Test Voltage : AC 120V/60Hz

Environment :  $20.9^{\circ}$ C/56%R.H./101.2kPa

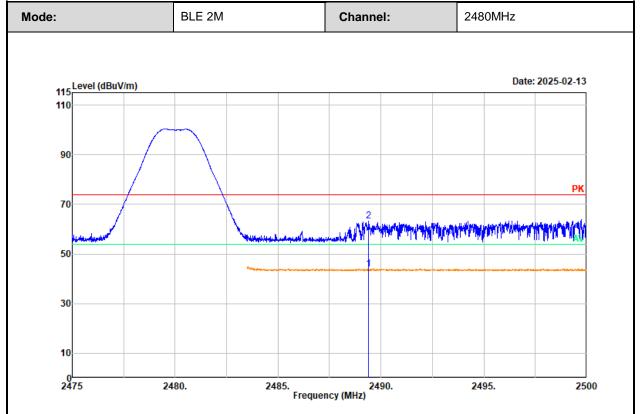
Tested by : Bard Huang Polarization : horizontal Remark : BLE 2M 2480

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	2489.137	37.27	7.21	44.48	54.00	-9.52	Average	
2	2489.137	55.39	7.21	62.60	74.00	-11.40	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor





Project No. : 2505P37465E Test Mode : Transmitting Test Voltage : AC 120V/60Hz

Environment :  $20.9^{\circ}$ C/56%R.H./101.2kPa

Tested by : Bard Huang Polarization : vertical Remark : BLE 2M 2480

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	2489.400	36.68	7.21	43.89	54.00	-10.11	Average	
2	2489.400	55.92	7.21	63.13	74.00	-10.87	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor



# 3.5 RF Conducted Test Data

Test Date:	2025-02-25~2025-03-05 <b>Test By:</b> Ryan Zhang			
Environment condition:	Temperature: 23.7~23.9°C;Rel 100.4~101.3kPa	ativeHumidity:51~57%; /	ATM Pressure:	

# 3.5.1 6 dB Emission Bandwidth

#### **BLE 1M**

Channel	Result (MHz)	Limit (MHz)	Verdict
Low	0.689	≥0.5	Pass
Middle	0.677	≥0.5	Pass
High	0.681	≥0.5	Pass

## BLE 2M

Channel	Result (MHz)	Limit (MHz)	Verdict
Low	1.249	≥0.5	Pass
Middle	1.261	≥0.5	Pass
High	1.267	≥0.5	Pass

# 3.5.2 99% Occupied Bandwidth

#### **BLE 1M**

Channel	99% OBW (MHz)
Low	1.036
Middle	1.040
High	1.052

## BLE 2M

Channel	99% OBW (MHz)
Low	2.088
Middle	2.088
High	2.070

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# 3.5.3 Maximum Conducted Peak Output Power

## **BLE 1M**

Channel		(dBm)	Limit		
	Path 1	Path 2	Path 3	(dBm)	Verdict
Low	6.65	7.24	5.51	30.00	Pass
Middle	6.87	6.77	5.65	30.00	Pass
High	6.57	6.60	5.54	30.00	Pass

## BLE 2M

Channel		(dBm)	Limit		
	Path 1	Path 2	Path 3	(dBm)	Verdict
Low	6.65	6.89	5.43	30.00	Pass
Middle	7.01	6.79	5.66	30.00	Pass
High	7.06	6.64	5.89	30.00	Pass

# 3.5.4 Power Spectral Density

## BLE 1M

Channel	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict	
Low	-10.44	8	Pass	
Middle	-10.34	8	Pass	
High	-10.47	8	Pass	

#### BLE 2M

Channel	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict	
Low	-12.99	8	Pass	
Middle	-13.11	8	Pass	
High	-12.52	8	Pass	

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# 3.5.5 100 kHz Bandwidth of Frequency Band Edge

## **BLE 1M**

Channel	Result (dB)	Limit (dB)	Verdict
Low	52.21	20	Pass
High	56.66	20	Pass

## BLE 2M

Channel	Result (dB)	Limit (dB)	Verdict
Low	31.98	20	Pass
High	54.78	20	Pass

# 3.5.6 Duty Cycle

## BLE 1M

Channel	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
Middle	2.122	2.502	84.81	0.72	471	0.500

# BLE 2M

Channel	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
Middle	1.064	1.875	56.75	2.46	940	1

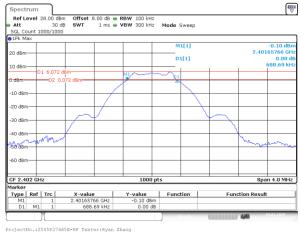


#### **Test Plots:**

#### 6 dB Emission Bandwidth:

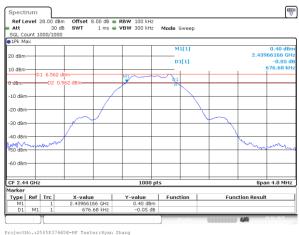
#### BLE 1M

BLE\_1M\_Low\_Channel

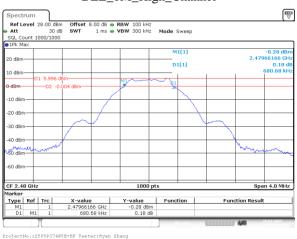


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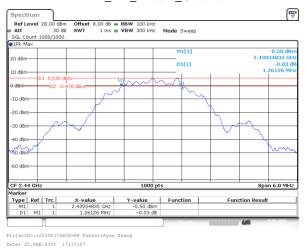
# BLE\_1M\_Middle\_Channel



## BLE\_1M\_High\_Channel



BLE\_2M\_Middle\_Channel

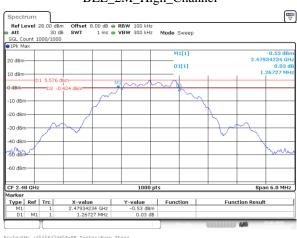


BLE 2M

#### BLE\_2M\_Low\_Channel



BLE\_2M\_High\_Channel



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang

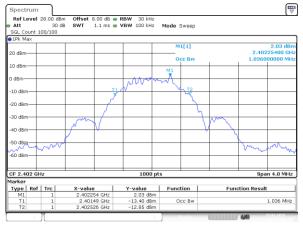
Date: 25.FEB.2025 17:39:55



#### 99% Occupied Bandwidth:

#### BLE 1M

BLE\_1M\_Low\_Channel



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang

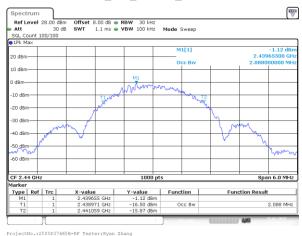
Date: 25.FEB.2025 17:27:40

#### BLE\_1M\_High\_Channel



Date: 25.FEB.2025 17:32:00

#### BLE\_2M\_Middle\_Channel



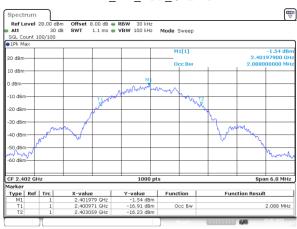
#### BLE\_1M\_Middle\_Channel



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang

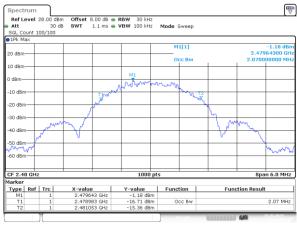
#### BLE 2M

#### BLE\_2M\_Low\_Channel



Date: 25.FEB.2025 17:34:54

BLE\_2M\_High\_Channel



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang

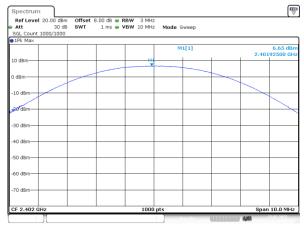




#### **Maximum Conducted Peak Output Power:**

# Path 1: **BLE 1M**

BLE\_1M\_Low\_Channel



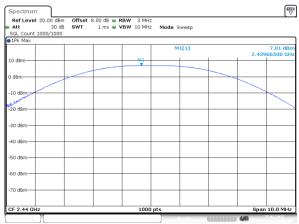
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## BLE\_1M\_High\_Channel



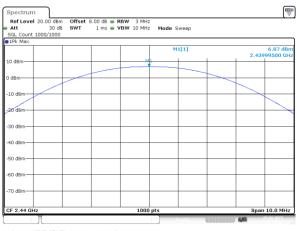
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang Date: 25.FEB.2025 17:32:17

### BLE\_2M\_Middle\_Channel



Date: 25.FEB.2025 17:37:32

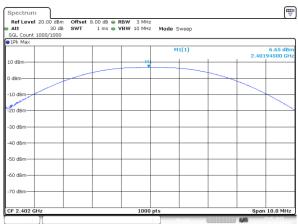
BLE\_1M\_Middle\_Channel



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang Date: 25.FEB.2025 17:29:54

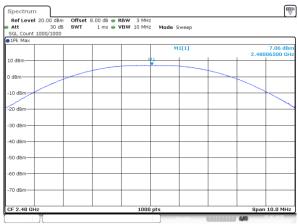
#### BLE 2M

#### BLE\_2M\_Low\_Channel

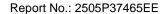


ProjectNo.:2505F37465E-RF Tester:Ryan Zhang Date: 25.FEB.2025 17:35:10

#### BLE\_2M\_High\_Channel



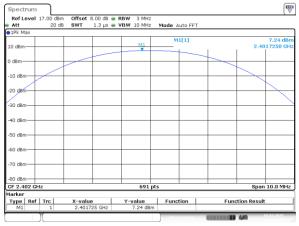
Date: 25.FEB.2025 17:40:21





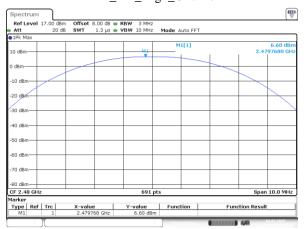
# Path 2: BLE 1M

BLE\_1M\_Low\_Channel

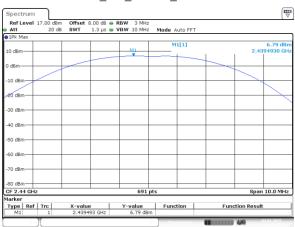


ProjectNo.: 2505P37465E-RF Tester: Rvan Zhang

#### BLE\_1M\_High\_Channel

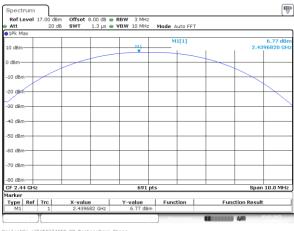


#### BLE\_2M\_Middle\_Channel



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang

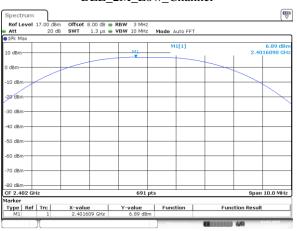
BLE\_1M\_Middle\_Channel



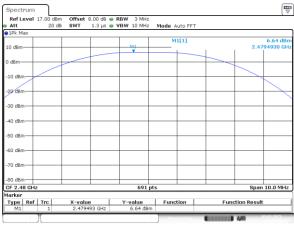
ProjectNo.: 2505P37465E-RF Tester: Rvan Zhang

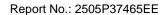
#### BLE 2M

#### BLE\_2M\_Low\_Channel



#### BLE\_2M\_High\_Channel

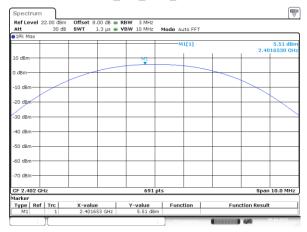






# Path 3: BLE 1M

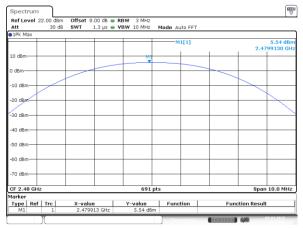
BLE\_1M\_Low\_Channel



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang

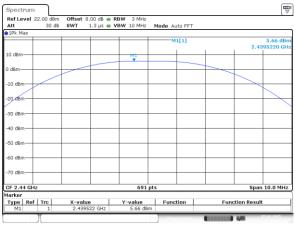
Date: 5.MAR.2025 13:27:43

### BLE\_1M\_High\_Channel



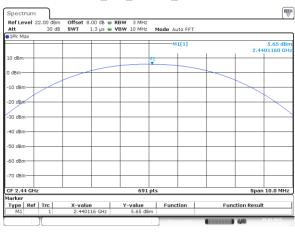
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang

#### BLE\_2M\_Middle\_Channel



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang

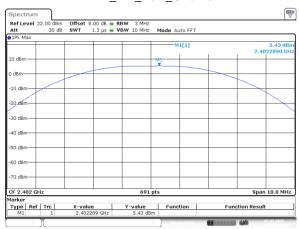
BLE\_1M\_Middle\_Channel



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang

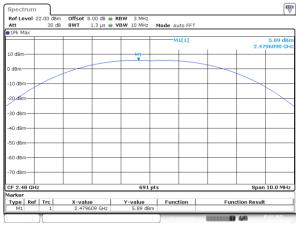
#### BLE 2M

#### BLE\_2M\_Low\_Channel



ProjectNo.:2505P37465E-RF Tester:Ryan Zhane Data: 5.Mag.2025 13:28:23

#### BLE\_2M\_High\_Channel



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang

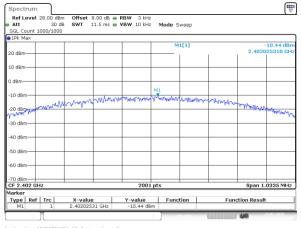
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#### **Power Spectral Density:**

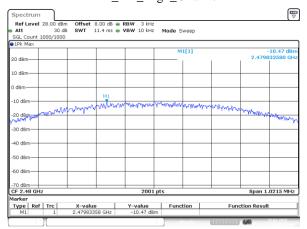
#### BLE 1M

BLE\_1M\_Low\_Channel



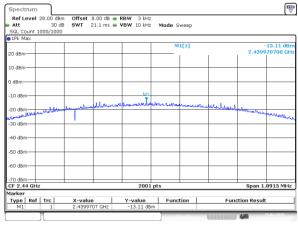
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#### BLE\_1M\_High\_Channel



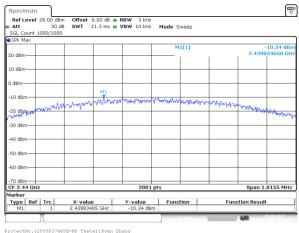
Date: 25.FEB.2025 17:33:14

#### BLE\_2M\_Middle\_Channel



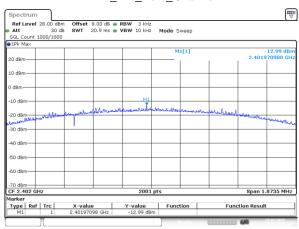
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang Date: 25.FEB.2025 17:38:42

#### BLE\_1M\_Middle\_Channel



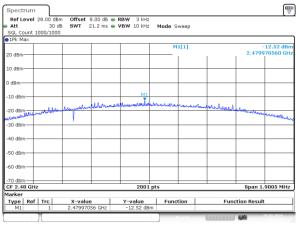
## BLE 2M

#### BLE\_2M\_Low\_Channel



Date: 25.FEB.2025 17:36:20

#### BLE\_2M\_High\_Channel



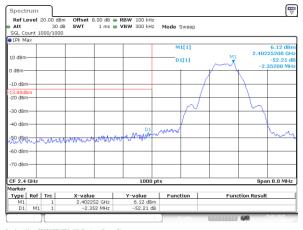
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang

Date: 25.FEB.2025 17:41:32



# 100kHz Bandwidth of Frequency Band Edge: BLE 1M

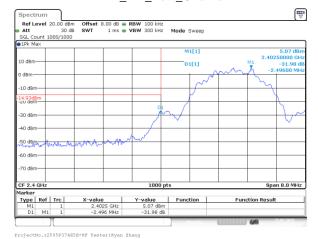
BLE\_1M\_Low\_Channel



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang

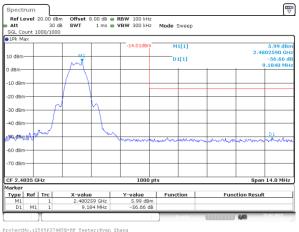
#### BLE 2M

BLE\_2M\_Low\_Channel



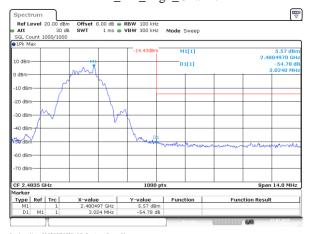
Date: 25.FEB.2025 17:34:24

#### BLE\_1M\_High\_Channel

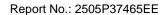


Date: 25.FEB.2025 17:31:31

#### BLE\_2M\_High\_Channel



Date: 25.FEB.2025 17:39:36

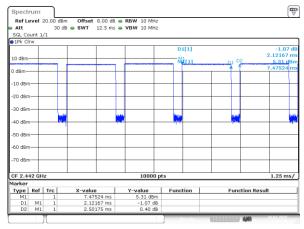




## **Duty cycle:**

## BLE 1M

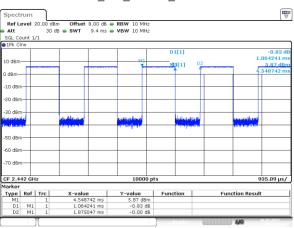
#### BLE\_1M\_Middle\_Channel



ProjectNo.:2505p37465E-RF Tester:Ryan Zhang Date: 26.FEB.2025 17:00:59

#### BLE 2M

#### $BLE\_2M\_Middle\_Channel$



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang

Doto: 26 FFB 2025 17:01:55



# 4 Test Setup Photo

Please refer to the attachment 2505P37465EC Test Setup photo.



# 5 E.U.T Photo

Please refer to the attachment 2505P37465E External photo and 2505P37465E Internal photo.

---End of Report---