



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



# TEST REPORT

**Applicant: INFINIX MOBILITY LIMITED.**

Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25  
SHAN MEI STREET FOTAN NT HONGKONG

**FCC ID: 2AIZN-X6726B**

**Product Name: Mobile Phone**

**Standard(s): 47 CFR Part 15, Subpart C(15.247)  
ANSI C63.10-2020  
KDB 558074 D01 15.247 Meas Guidance v05r02**

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

**Report Number: 2503S20876E-RF-00A**

**Date Of Issue: 2025-05-20**

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## Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

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. : 442868, the FCC Designation No. : CN1314.

## Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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Each test item follows the test standard(s) without deviation.

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**DOCUMENT REVISION HISTORY**

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2503S20876E-RF-00A	Original Report	2025-05-20

## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment under Test (EUT)

#### 1.1.1 General

<b>EUT Name:</b>	Mobile Phone
<b>EUT Model:</b>	X6726B
<b>Operation Frequency:</b>	2402-2480 MHz(BLE 1Mbps) 2404-2478 MHz(BLE 2Mbps)
<b>Maximum Peak Output Power (Conducted):</b>	2.60dBm
<b>Modulation Type:</b>	GFSK
<b>Rated Input Voltage:</b>	DC 3.91V from battery or DC 5.0V/7.5V from adapter
<b>Serial Number:</b>	CE&RE:30YZ-1 RF: 30YZ-2
<b>EUT Received Date:</b>	2025/4/3
<b>EUT Received Status:</b>	Good

Note: The EUT has two configurations that Type 1 and Type 2 are electrically identical. Please refer to the declaration letter for more detail, which was provided by manufacturer. Per BT report test, conducted emissions test with Type 2 was the worst, and radiated emissions below 1 GHz test with Type 1 was the worst. Other test item only performs on Type 1 configurations.

#### 1.1.2 Operation Frequency Detail

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	...	...
...	...	...	...
...	...	...	...
...	...	38	2478
19	2440	39	2480

Per section 15.31(m), the below frequencies were performed the test as below:

Test Channel	Frequency (MHz)
Lowest	2402
Middle	2440
Highest	2480

#### For BLE 2Mbps:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2404	19	2442
1	2406	...	...
...	...	...	...
...	...	...	...
...	...	36	2476
18	2440	37	2478

Per section 15.31(m), the below frequencies were performed the test as below:

Test Channel	Frequency (MHz)
Lowest	2404
Middle	2440
Highest	2478

**1.1.3 Antenna Information Detail▲**

Antenna	Antenna Type	input impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
ANT12(Chain 0)	FPC	50	2400-2500	-1.15
ANT1(Chain 1)	FPC	50	2400-2500	-5.74

The Method of §15.203 Compliance:

- Antenna was permanently attached to the unit.
- Antenna use a unique type of connector to attach to the EUT.
- Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

**1.1.4 Accessory Information**

Accessory Description	Manufacturer	Model
Adapter	Infinix	U180XSA
Earphone	Infinix	Unknown

## 1.2 Description of Test Configuration

### 1.2.1 EUT Operation Condition:

<b>EUT Operation Mode:</b>	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.
<b>Equipment Modifications:</b>	No
<b>EUT Exercise Software:</b>	Engineer mode

The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲ :

<b>Test Modes</b>	<b>Power Level Setting</b>		
	<b>Lowest Channel</b>	<b>Middle Channel</b>	<b>Highest Channel</b>
1Mbps	<b>default</b>	<b>default</b>	<b>default</b>
2Mbps	<b>default</b>	<b>default</b>	<b>default</b>

Note: The device has two antennas, and only support SISO mode.

### 1.2.2 Support Equipment List and Details

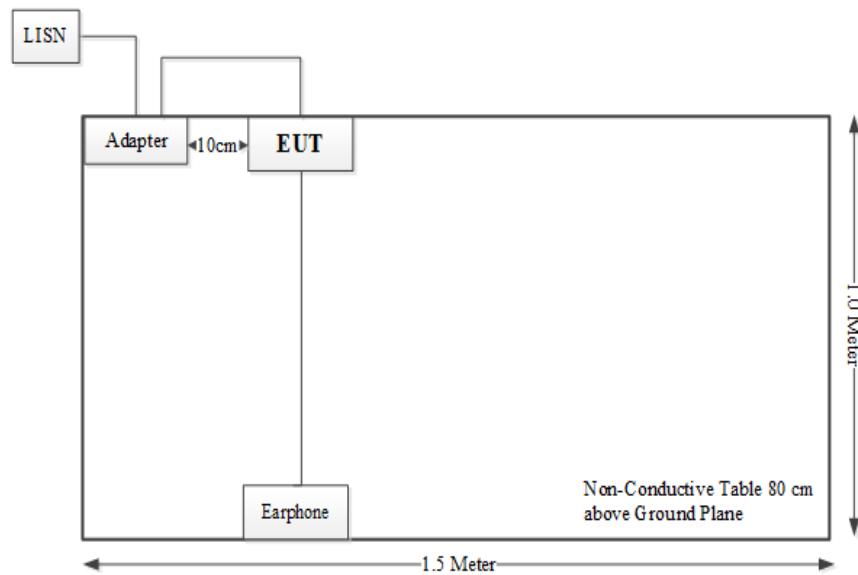
<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>
Infinix	Adapter	U180XSA	CY07018464C13
Infinix	Earphone	Unknown	Unknown

### 1.2.3 Support Cable List and Details

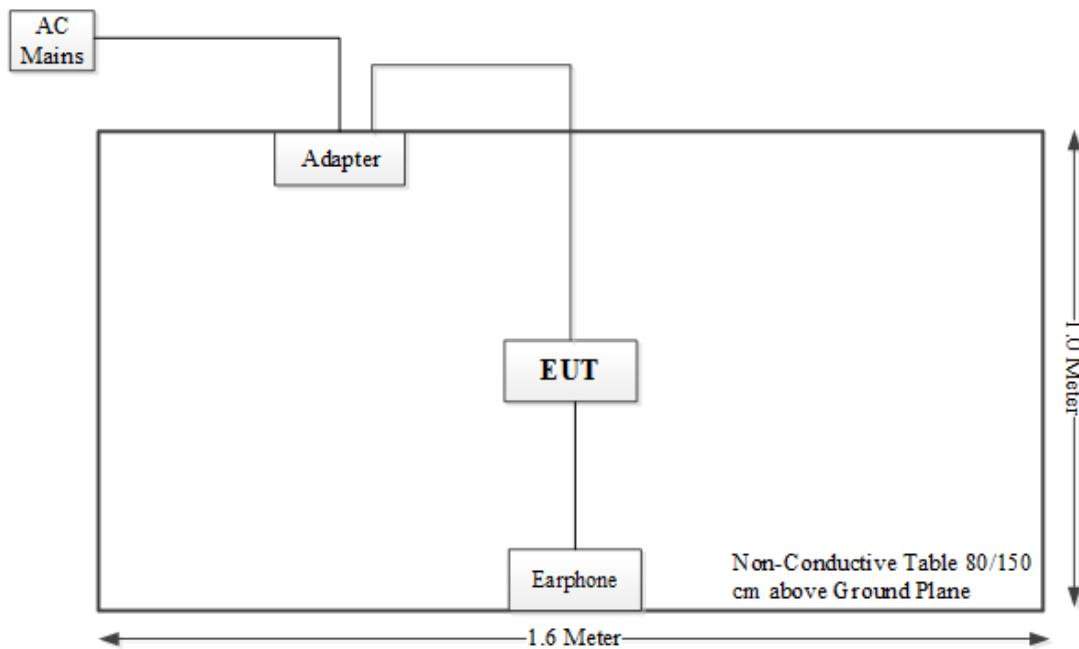
<b>Cable Description</b>	<b>Shielding Type</b>	<b>Ferrite Core</b>	<b>Length (m)</b>	<b>From Port</b>	<b>To</b>
USB Cable	NO	NO	0.8	Adapter	EUT
Earphone Cable	NO	NO	1.2	EUT	Earphone

### 1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



Spurious Emissions:



### 1.3 Measurement Uncertainty

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

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9k~30MHz: 4.12dB, 30M~200MHz: 4.15 dB, 200M~1GHz: 5.61 dB, 1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB, 18G~26.5G:5.47 dB, 26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

## 2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.203	Antenna Requirement	Compliant
FCC §15.207(a)	AC Line Conducted Emissions	Compliant
FCC §15.205,§15.209,§15.247(d)	Radiated Spurious Emission	Compliant
FCC §15.207(a)(2), §C63.10 6.9.3	6dB Emission Bandwidth & 99% Occupied Bandwidth	Compliant
FCC §15.247(b)(1)	Maximum Conducted Output Power	Compliant
FCC §15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
FCC §15.247(e)	Power Spectral Density	Compliant
FCC §1.1307&§2.1093&§15.247 (i)	RF Exposure	Compliant

### **3. REQUIREMENTS AND TEST PROCEDURES**

#### **3.1 AC Line Conducted Emissions**

##### **3.1.1 Applicable Standard**

FCC §15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

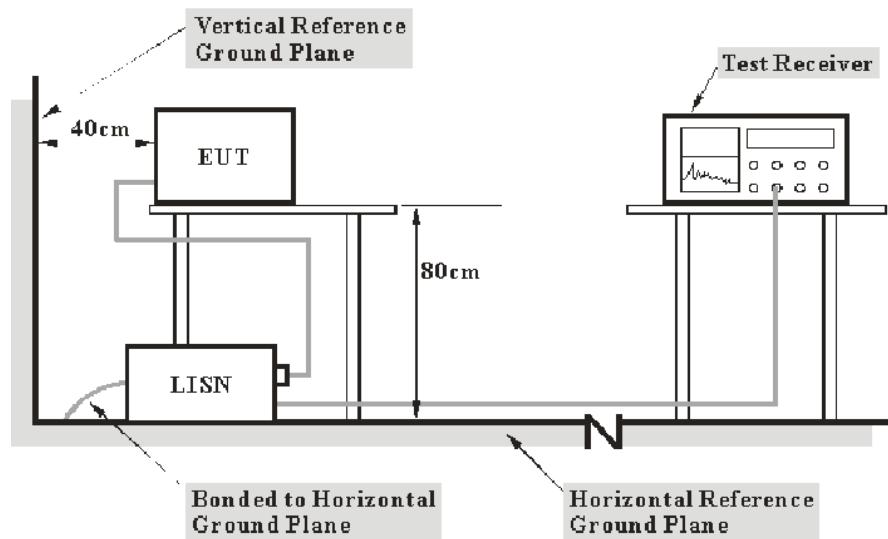
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000  $\mu$ V within the frequency band 535-1705 kHz, as measured using a 50  $\mu$ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

### 3.1.2 EUT Setup



Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

### 3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

### 3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

### 3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

## 3.2 Radiation Spurious Emissions

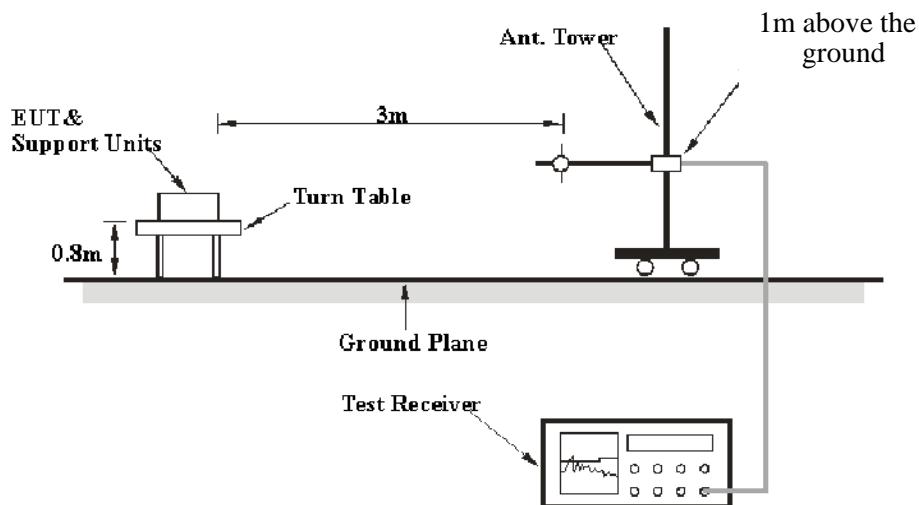
### 3.2.1 Applicable Standard

FCC §15.247 (d);

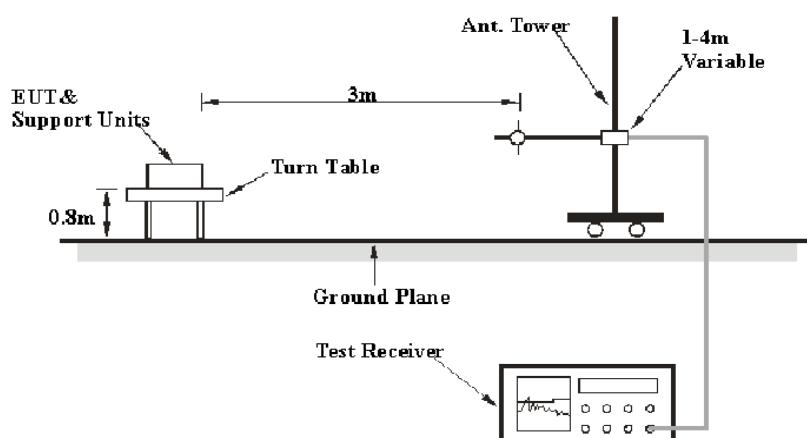
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

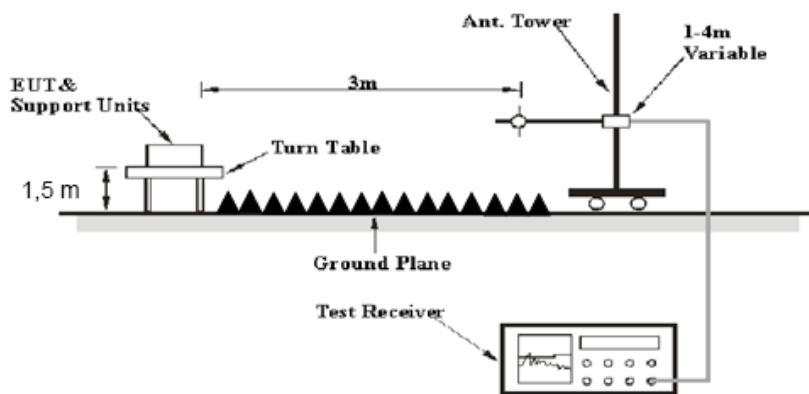
### 3.2.2 EUT Setup

**9kHz - 30MHz:**



**30MHz - 1GHz:**



**Above 1GHz:**

The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

### 3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector	Measurement
9 kHz – 150 kHz	300 Hz	1 kHz	/	Peak	PK
	/	/	200 Hz	Quasi Peak/Average	QP/AV
150 kHz – 30 MHz	10 kHz	30 kHz	/	Peak	PK
	/	/	9 kHz	Quasi Peak/Average	QP/AV
30MHz – 1000 MHz	100 kHz	300 kHz	/	Peak	PK
	/	/	120kHz	Quasi Peak	QP

**1GHz- 25GHz:**

Pre-scan:

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
Ave.	>98%	1MHz	5 kHz	Peak
	<98%	1MHz	>1/T, not less than 5 kHz	Peak

Note: T is minimum transmission duration

Final measurement for emission identified during the pre-scan:

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
Ave.	>98%	1MHz	10 Hz	Peak
	<98%	1MHz	$\geq 1/T$	Peak

Note: T is minimum transmission duration

If the maximized peak measured value is under the QP/Average limit by more than 6dB, then it is unnecessary to perform an QP/Average measurement.

The spurious emissions which below the limit more than 20dB was not be recorded.

### 3.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1 GHz except 9–90 kHz, 110–490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

All emissions under the average limit and under the noise floor have not recorded in the report.

### 3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

The “Margin” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

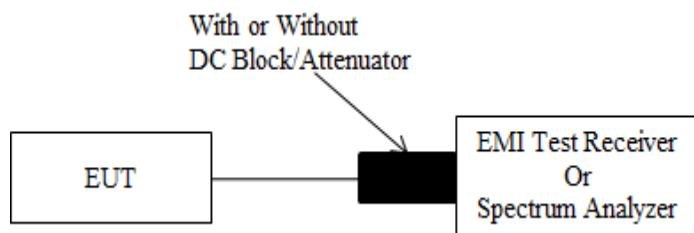
### 3.3 Minimum 6 dB Bandwidth

#### 3.3.1 Applicable Standard

FCC §15.247 (a)(2)

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

#### 3.3.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, the insert loss of this RF cable/attenuator was offset into the setting of test equipment.

#### 3.3.3 Test Procedure

According to ANSI C63.10-2020 Section 11.8

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

### 3.4 99% Occupied Bandwidth

#### 3.4.1 Applicable Standard

#### 3.4.2 EUT Setup

A short RF cable with low cable loss connected to the EUT antenna port, the insert loss of this RF cable/attenuator was offset into the setting of test equipment.

#### 3.4.3 Test Procedure

According to ANSI C63.10-2020 Section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (\text{OBW}/\text{RBW})]$  below the reference level. Specific guidance is given in 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

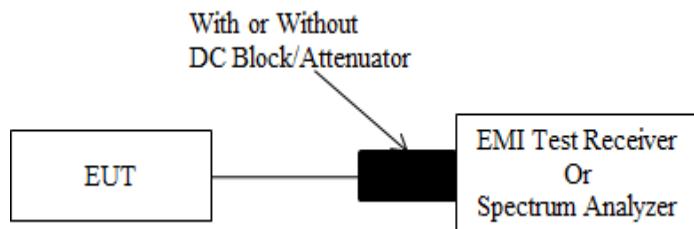
### 3.5 Maximum Conducted Output Power

#### 3.5.1 Applicable Standard

FCC §15.247 (b)(3)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

#### 3.5.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, the insert loss of this RF cable/attenuator was offset into the setting of test equipment.

#### 3.5.3 Test Procedure

According to ANSI C63.10-2020 Section 11.9.1.1

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the  $RBW \geq DTS$  bandwidth.
- b) Set  $VBW \geq [3 \times RBW]$ .
- c) Set span  $\geq [3 \times RBW]$ .
- d) Sweep time = No faster than coupled (auto) time.
- e) Detector = peak.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

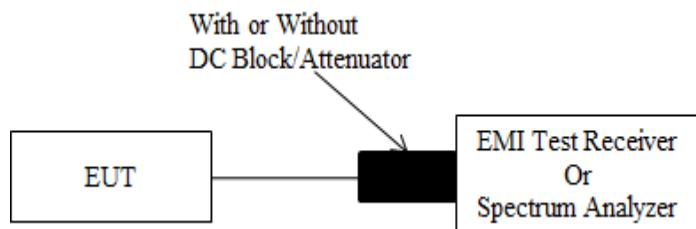
### 3.6 Maximum Power Spectral Density

#### 3.6.1 Applicable Standard

FCC §15.247 (e)

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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

#### 3.6.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, the insert loss of this RF cable/attenuator was offset into the setting of test equipment.

#### 3.6.3 Test Procedure

According to ANSI C63.10-2020 Section 11.10.2

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span  $>1.5$  times the DTS bandwidth.
- c) Set the RBW to  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- d) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- e) Detector = peak.
- f) Sweep time = No faster than coupled (auto) time.
- g) Trace mode = max-hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

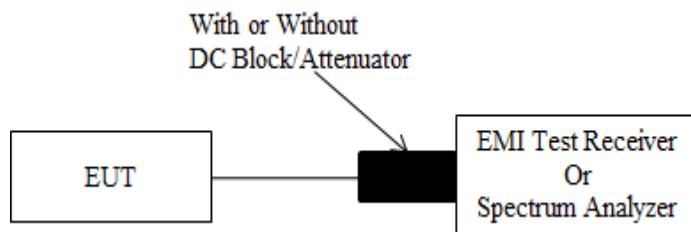
### 3.7 100 kHz Bandwidth of Frequency Band Edge

#### 3.7.1 Applicable Standard

FCC §15.247 (d);

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)).

#### 3.7.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, the insert loss of this RF cable/attenuator was offset into the setting of test equipment.

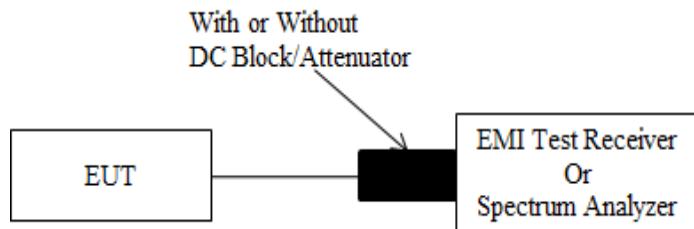
#### 3.7.3 Test Procedure

According to ANSI C63.10-2020 Section 11.11

- a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.  
NOTE—the number of points can also be increased for large spans to retain frequency resolution
- b) Set the RBW = 100 kHz.
- c) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.  
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

### 3.8 Duty Cycle

#### 3.8.1 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, the insert loss of this RF cable/attenuator was offset into the setting of test equipment.

#### 3.8.2 Test Procedure

According to ANSI C63.10-2020 Section 11.6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set  $RBW \geq OBW$  if possible; otherwise, set RBW to the largest available value.
- 3) Set  $VBW \geq RBW$ . Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are  $> 50/T$  and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if  $T \leq 16.7 \mu s$ .)

### **3.9 Antenna Requirement**

#### **3.9.1 Applicable Standard**

FCC §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

#### **3.9.2 Judgment**

**Compliant.** Please refer to the Antenna Information detail in Section 1.

## 4. TEST DATA AND RESULTS

### 4.1 AC Line Conducted Emissions

Sample Number:	30YZ-13	Test Date:	2025/5/7
Test Site:	CE	Test Mode:	Transmitting (maximum conducted output power mode, Chain 0 BLE 1M middle channel)
Tester:	David Huang	Test Result:	Pass

#### Environmental Conditions:

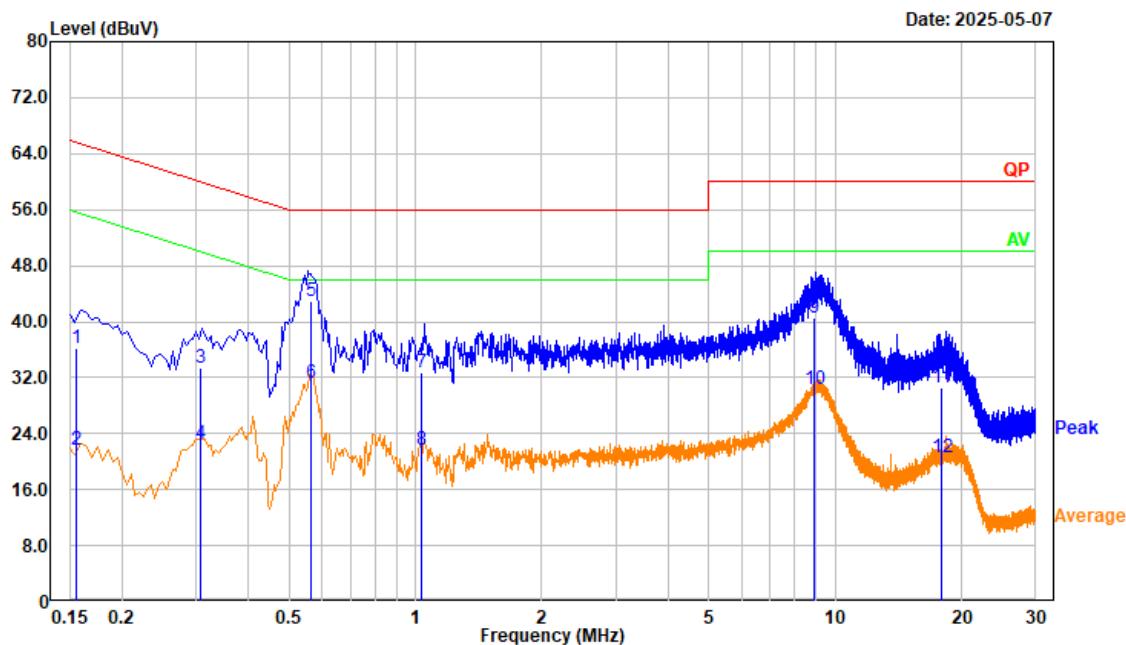
Temperature: (°C)	25.1	Relative Humidity: (%)	44	ATM Pressure: (kPa)	100.4
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#### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2025/3/31	2026/3/30
R&S	EMI Test Receiver	ESR3	103104	2024/5/10	2025/5/9
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2025/1/6	2026/1/5
Audix	Test Software	E3	191218 (V9)	N/A	N/A

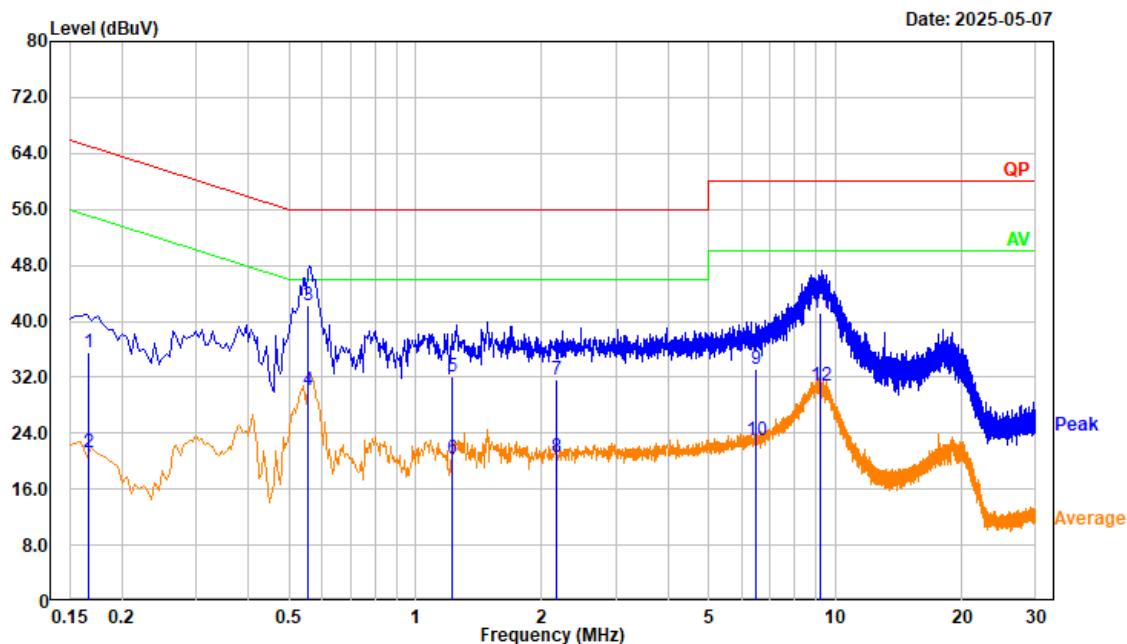
\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Project No.: 2503S20876E-RF  
 Tester: David Huang  
 Condition: IFBW:9 kHz Meas Time:0.025sec  
 Port: Line  
 Note: Transmitting BLE



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector
1	0.156	25.69	10.50	36.19	65.67	29.48	QP
2	0.156	11.22	10.50	21.72	55.67	33.95	Average
3	0.307	22.90	10.41	33.31	60.06	26.75	QP
4	0.307	12.24	10.41	22.65	50.06	27.41	Average
5	0.564	32.43	10.41	42.84	56.00	13.16	QP
6	0.564	20.77	10.41	31.18	46.00	14.82	Average
7	1.033	22.07	10.60	32.67	56.00	23.33	QP
8	1.033	11.09	10.60	21.69	46.00	24.31	Average
9	8.923	30.18	10.29	40.47	60.00	19.53	QP
10	8.923	20.03	10.29	30.32	50.00	19.68	Average
11	17.846	20.77	9.90	30.67	60.00	29.33	QP
12	17.846	10.80	9.90	20.70	50.00	29.30	Average

Project No.: 2503S20876E-RF  
 Tester: David Huang  
 Condition: IFBW:9 kHz Meas Time:0.025sec  
 Port: neutral  
 Note: Transmitting BLE



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector
1	0.166	25.19	10.27	35.46	65.15	29.69	QP
2	0.166	10.93	10.27	21.20	55.15	33.95	Average
3	0.556	31.96	10.33	42.29	56.00	13.71	QP
4	0.556	19.79	10.33	30.12	46.00	15.88	Average
5	1.227	21.70	10.47	32.17	56.00	23.83	QP
6	1.227	9.90	10.47	20.37	46.00	25.63	Average
7	2.173	21.35	10.33	31.68	56.00	24.32	QP
8	2.173	10.35	10.33	20.68	46.00	25.32	Average
9	6.462	22.85	10.29	33.14	60.00	26.86	QP
10	6.462	12.72	10.29	23.01	50.00	26.99	Average
11	9.196	30.92	10.35	41.27	60.00	18.73	QP
12	9.196	20.47	10.35	30.82	50.00	19.18	Average

## 4.2 Radiation Spurious Emissions

### 4.2.1 9 kHz – 1 GHz

Sample Number:	30YZ-1	Test Date:	2025/4/14
Test Site:	966-2	Test Mode:	Transmitting (maximum conducted output power mode, Chain 0 BLE 1M middle channel)
Tester:	Roinin Fu	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.3	Relative Humidity: (%)	54	ATM Pressure: (kPa)	101.4

### Test Equipment List and Details:

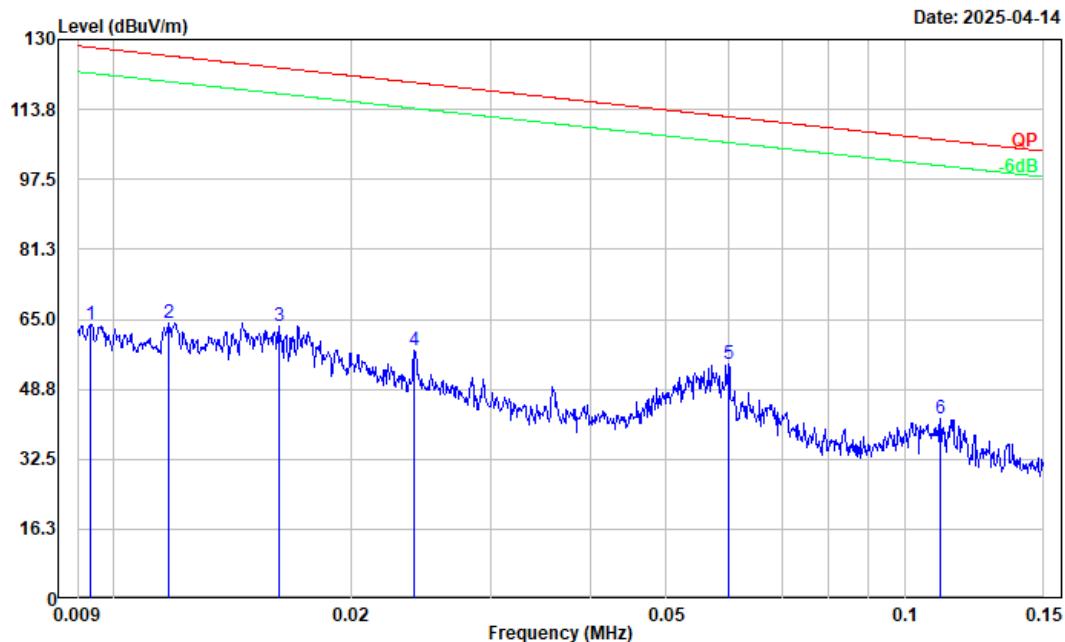
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
BACL	Loop Antenna	1313-1A	3110611	2023/12/4	2026/12/3
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0300-01	2025/1/10	2026/1/9
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0500-01	2025/1/10	2026/1/9
R&S	EMI Test Receiver	ESR3	102724	2025/2/14	2026/2/13
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2024/12/3	2025/12/2
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2024/12/3	2025/12/2
XQY	Coaxial Cable	XQY-CMR400UF-NJ-NJ-7M	24056379	2024/6/11	2025/6/10
Sonoma	Amplifier	310N	186165	2024/12/3	2025/12/2
Audix	Test Software	E3	191218 (V9)	N/A	N/A

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### Test Data:

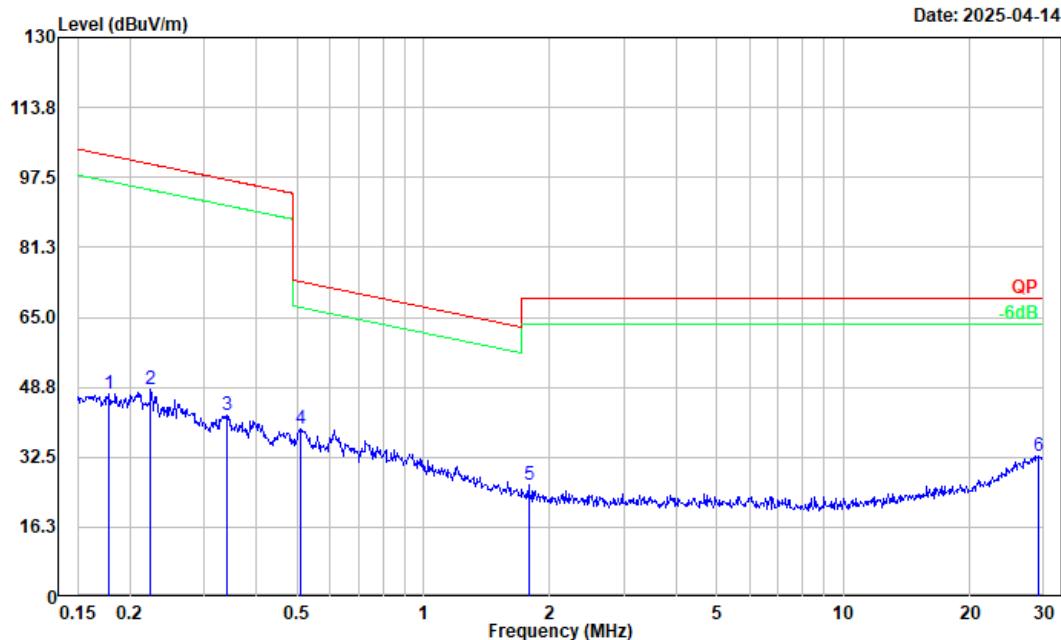
After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to plots.

Project No.: 2503S20876E-RF  
Tester: Roinin Fu  
Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec  
Polarization: Parallel  
Note: Transmitting Part 15.247\_BLE



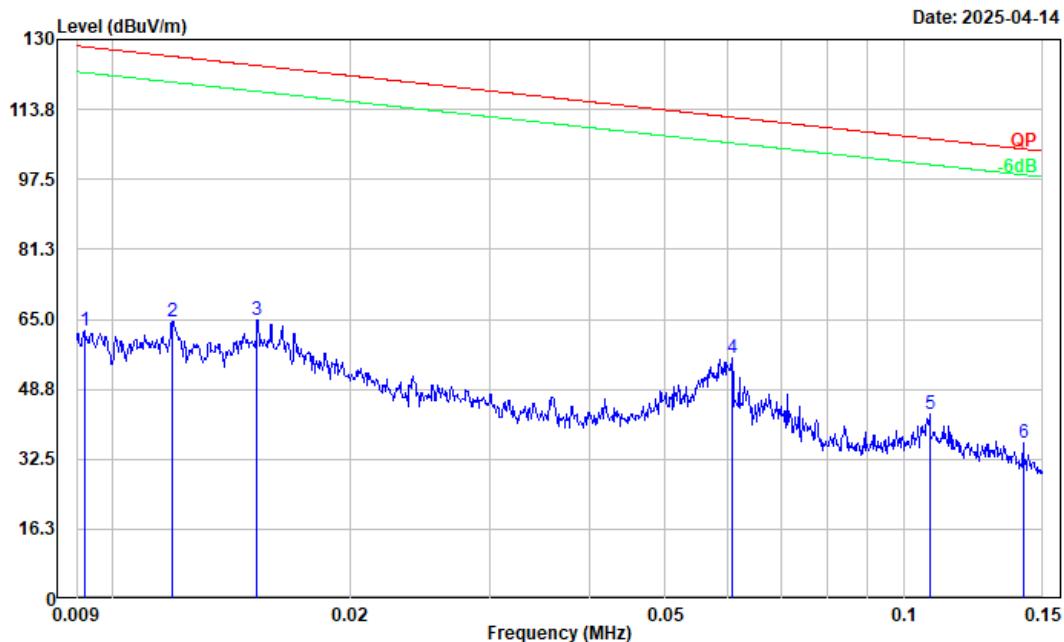
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	0.009	28.51	35.26	63.77	128.18	64.41	Peak
2	0.012	30.60	33.58	64.18	126.20	62.02	Peak
3	0.016	32.11	31.40	63.51	123.41	59.90	Peak
4	0.024	30.35	27.57	57.92	119.99	62.07	Peak
5	0.060	35.65	19.08	54.73	112.05	57.32	Peak
6	0.111	27.76	14.14	41.90	106.70	64.80	Peak

Project No.: 2503S20876E-RF  
Tester: Roinin Fu  
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec  
Polarization: Parallel  
Note: Transmitting Part 15.247\_BLE



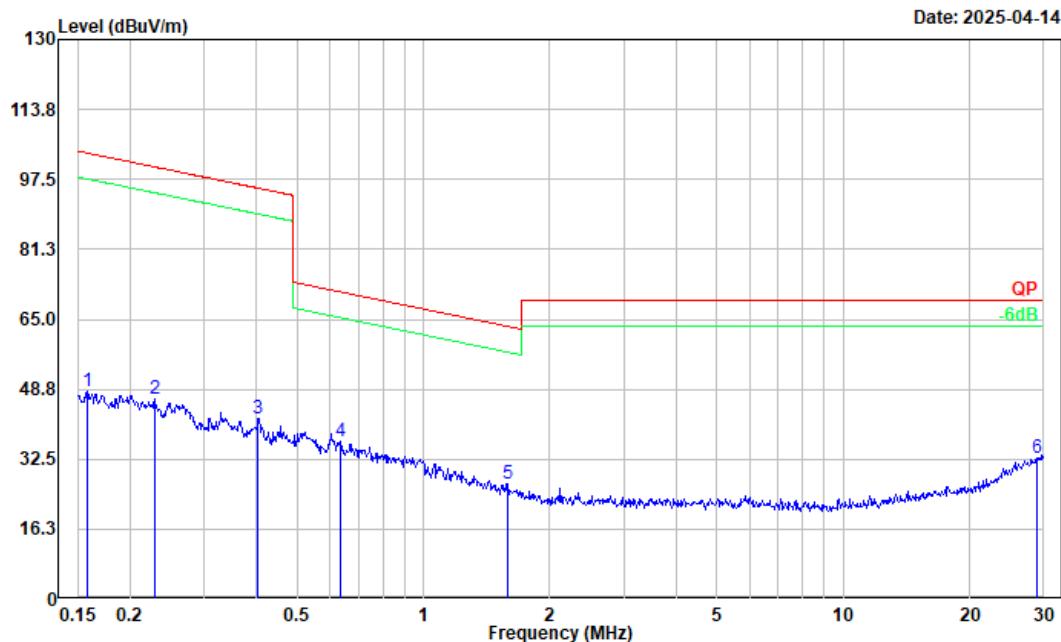
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	0.178	36.15	11.04	47.19	102.61	55.42	Peak
2	0.224	39.44	8.87	48.31	100.58	52.27	Peak
3	0.339	37.88	4.51	42.39	97.00	54.61	Peak
4	0.510	38.15	0.85	39.00	73.44	34.44	Peak
5	1.781	32.93	-6.96	25.97	69.54	43.57	Peak
6	29.061	40.09	-7.22	32.87	69.54	36.67	Peak

Project No.: 2503S20876E-RF  
Tester: Roinin Fu  
Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec  
Polarization: Perpendicular  
Note: Transmitting Part 15.247\_BLE



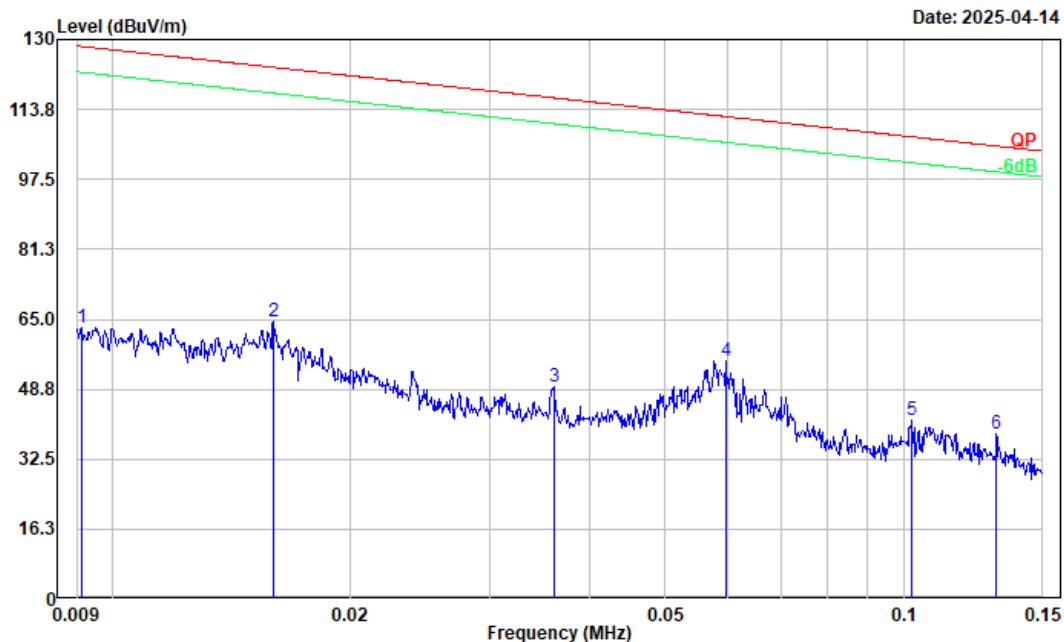
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	0.009	27.05	35.46	62.51	128.32	65.81	Peak
2	0.012	31.05	33.51	64.56	126.10	61.54	Peak
3	0.015	32.99	31.88	64.87	123.95	59.08	Peak
4	0.061	37.08	18.99	56.07	111.95	55.88	Peak
5	0.108	28.85	14.28	43.13	106.94	63.81	Peak
6	0.142	23.70	12.71	36.41	104.57	68.16	Peak

Project No.: 2503S20876E-RF  
Tester: Roinin Fu  
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec  
Polarization: Perpendicular  
Note: Transmitting Part 15.247\_BLE



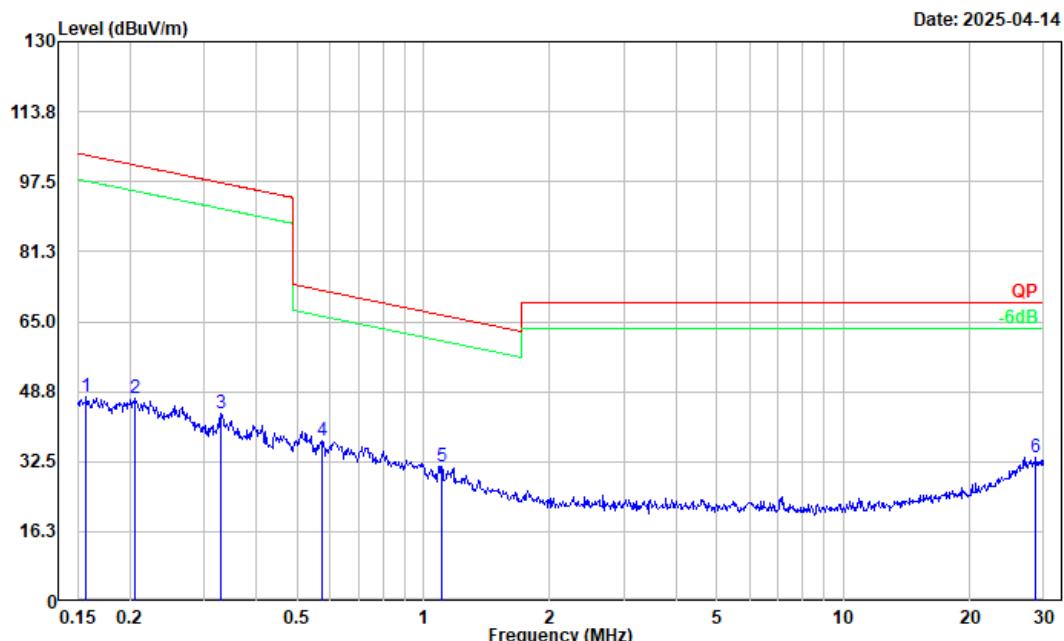
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	0.158	36.35	11.95	48.30	103.62	55.32	Peak
2	0.229	37.74	8.65	46.39	100.40	54.01	Peak
3	0.404	38.89	3.08	41.97	95.48	53.51	Peak
4	0.634	37.39	-0.58	36.81	71.52	34.71	Peak
5	1.593	33.01	-6.30	26.71	63.34	36.63	Peak
6	28.908	40.10	-7.24	32.86	69.54	36.68	Peak

Project No.: 2503S20876E-RF  
Tester: Roinin Fu  
Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec  
Polarization: Ground-parallel  
Note: Transmitting Part 15.247\_BLE



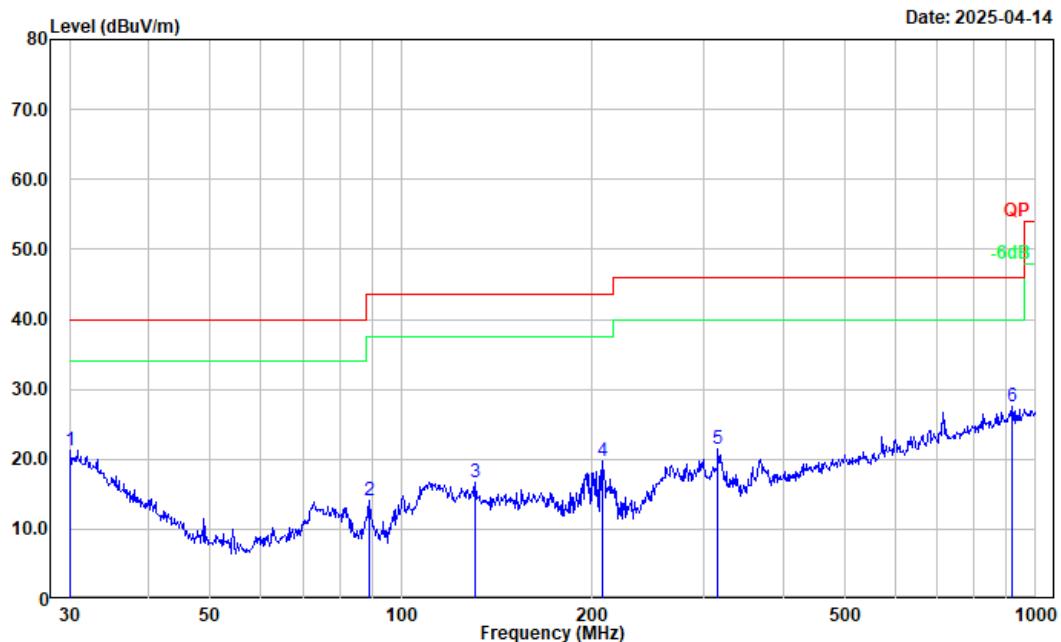
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	0.009	27.49	35.56	63.05	128.40	65.35	Peak
2	0.016	32.79	31.51	64.30	123.53	59.23	Peak
3	0.036	26.08	23.35	49.43	116.45	67.02	Peak
4	0.060	36.11	19.13	55.24	112.10	56.86	Peak
5	0.103	27.10	14.53	41.63	107.38	65.75	Peak
6	0.131	25.04	13.21	38.25	105.26	67.01	Peak

Project No.: 2503S20876E-RF  
Tester: Roinin Fu  
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec  
Polarization: Ground-parallel  
Note: Transmitting Part 15.247\_BLE



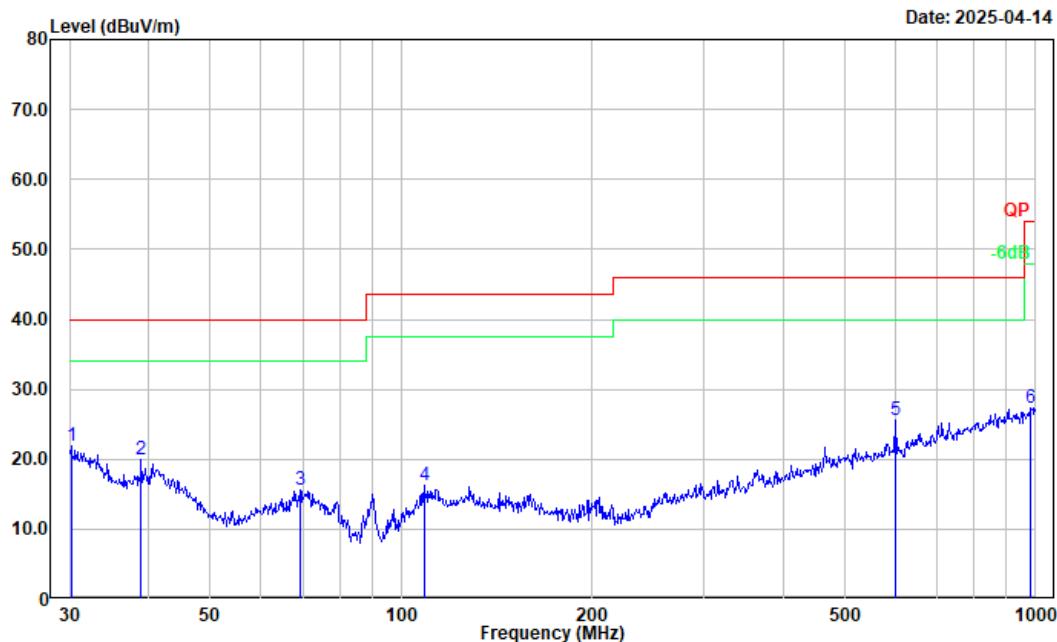
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	0.157	35.45	11.98	47.43	103.67	56.24	Peak
2	0.206	37.38	9.71	47.09	101.32	54.23	Peak
3	0.330	38.88	4.70	43.58	97.23	53.65	Peak
4	0.573	37.05	0.13	37.18	72.41	35.23	Peak
5	1.106	36.02	-4.57	31.45	66.58	35.13	Peak
6	28.755	40.67	-7.27	33.40	69.54	36.14	Peak

Project No.: 2503S20876E-RF  
Tester: Roinin Fu  
Condition: RBW:100 kHz VBW:300 kHz SWT:0.1 sec  
Polarization: horizontal  
Note: Transmitting Part 15.247\_BLE



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	30.000	25.08	-3.80	21.28	40.00	18.72	Peak
2	88.964	31.12	-17.10	14.02	43.50	29.48	Peak
3	130.837	28.10	-11.37	16.73	43.50	26.77	Peak
4	207.850	33.48	-13.75	19.73	43.50	23.77	Peak
5	315.481	31.51	-10.11	21.40	46.00	24.60	Peak
6	919.287	27.26	0.21	27.47	46.00	18.53	Peak

Project No.: 2503S20876E-RF  
Tester: Roinin Fu  
Condition: RBW:100 kHz VBW:300 kHz SWT:0.1 sec  
Polarization: vertical  
Note: Transmitting Part 15.247\_BLE



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	30.211	25.80	-3.93	21.87	40.00	18.13	Peak
2	38.888	30.45	-10.57	19.88	40.00	20.12	Peak
3	69.357	32.73	-17.22	15.51	40.00	24.49	Peak
4	108.647	28.74	-12.51	16.23	43.50	27.27	Peak
5	601.427	30.12	-4.63	25.49	46.00	20.51	Peak
6	982.620	26.02	1.23	27.25	54.00	26.75	Peak

**4.2.2 1 GHz – 25 GHz**

Sample Number	30YZ-1	Test Date:	2025/4/11
Test Site:	966-1	Test Mode:	Transmitting
Tester:	Mack Huang	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	26	Relative Humidity: (%)	68	ATM Pressure: (kPa)	100.8
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	9912-5985	2023/12/6	2026/12/5
R&S	Spectrum Analyzer	FSV40	101591	2025/3/31	2026/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2025/1/10	2026/1/9
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2025/1/10	2026/1/9
A.H	Preamplifier	PAM-0118P	628	2025/2/21	2026/2/20
Audix	Test Software	E3	191218 (V9)	N/A	N/A
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2024/2/4	2027/2/3
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2025/1/6	2026/1/5
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2025/1/6	2026/1/5
JD	Multiplex Switch Test Control Set	DT7220SCU	DQ77925	2024/8/5	2025/8/4
JD	Filter Switch Unit	DT7220FSU	DQ77928	2024/8/5	2025/8/4

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Data:**

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

**Chain 0****BLE 1Mbps:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Remark					
Low Channel: 2402 MHz							
4804.000	46.35	PK	H	-5.31	41.04	74.00	32.96
4804.000	33.74	AV	H	-5.31	28.43	54.00	25.57
4804.000	47.21	PK	V	-5.31	41.90	74.00	32.10
4804.000	34.29	AV	V	-5.31	28.98	54.00	25.02
7206.000	46.94	PK	H	-2.05	44.89	74.00	29.11
7206.000	33.46	AV	H	-2.05	31.41	54.00	22.59
7206.000	47.11	PK	V	-2.05	45.06	74.00	28.94
7206.000	34.20	AV	V	-2.05	32.15	54.00	21.85
Middle Channel: 2440 MHz							
4880.000	47.21	PK	H	-5.28	41.93	74.00	32.07
4880.000	34.05	AV	H	-5.28	28.77	54.00	25.23
4880.000	46.38	PK	V	-5.28	41.10	74.00	32.90
4880.000	33.96	AV	V	-5.28	28.68	54.00	25.32
7320.000	46.78	PK	H	-1.21	45.57	74.00	28.43
7320.000	33.42	AV	H	-1.21	32.21	54.00	21.79
7320.000	47.14	PK	V	-1.21	45.93	74.00	28.07
7320.000	34.30	AV	V	-1.21	33.09	54.00	20.91
High Channel: 2480 MHz							
4960.000	47.59	PK	H	-5.33	42.26	74.00	31.74
4960.000	34.35	AV	H	-5.33	29.02	54.00	24.98
4960.000	46.86	PK	V	-5.33	41.53	74.00	32.47
4960.000	33.35	AV	V	-5.33	28.02	54.00	25.98
7440.000	46.85	PK	H	-1.21	45.64	74.00	28.36
7440.000	33.63	AV	H	-1.21	32.42	54.00	21.58
7440.000	47.08	PK	V	-1.21	45.87	74.00	28.13
7440.000	34.49	AV	V	-1.21	33.28	54.00	20.72

**BLE 2Mbps:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Remark					
Low Channel:				2404	MHz		
4808.000	46.25	PK	H	-5.29	40.96	74.00	33.04
4808.000	33.39	AV	H	-5.29	28.10	54.00	25.90
4808.000	47.21	PK	V	-5.29	41.92	74.00	32.08
4808.000	35.10	AV	V	-5.29	29.81	54.00	24.19
7212.000	46.02	PK	H	-1.99	44.03	74.00	29.97
7212.000	33.87	AV	H	-1.99	31.88	54.00	22.12
7212.000	45.91	PK	V	-1.99	43.92	74.00	30.08
7212.000	32.64	AV	V	-1.99	30.65	54.00	23.35
Middle Channel:				2440	MHz		
4880.000	46.85	PK	H	-5.28	41.57	74.00	32.43
4880.000	33.21	AV	H	-5.28	27.93	54.00	26.07
4880.000	47.41	PK	V	-5.28	42.13	74.00	31.87
4880.000	34.62	AV	V	-5.28	29.34	54.00	24.66
7320.000	47.30	PK	H	-1.21	46.09	74.00	27.91
7320.000	34.19	AV	H	-1.21	32.98	54.00	21.02
7320.000	46.53	PK	V	-1.21	45.32	74.00	28.68
7320.000	33.20	AV	V	-1.21	31.99	54.00	22.01
High Channel:				2478	MHz		
4956.000	47.23	PK	H	-5.36	41.87	74.00	32.13
4956.000	34.16	AV	H	-5.36	28.80	54.00	25.20
4956.000	46.95	PK	V	-5.36	41.59	74.00	32.41
4956.000	33.64	AV	V	-5.36	28.28	54.00	25.72
7434.000	46.58	PK	H	-1.19	45.39	74.00	28.61
7434.000	33.24	AV	H	-1.19	32.05	54.00	21.95
7434.000	46.28	PK	V	-1.19	45.09	74.00	28.91
7434.000	33.19	AV	V	-1.19	32.00	54.00	22.00

**Chain 1****BLE 1Mbps:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Remark					
Low Channel: 2402 MHz							
4804.000	47.11	PK	H	-5.31	41.80	74.00	32.20
4804.000	34.35	AV	H	-5.31	29.04	54.00	24.96
4804.000	46.96	PK	V	-5.31	41.65	74.00	32.35
4804.000	33.20	AV	V	-5.31	27.89	54.00	26.11
7206.000	47.15	PK	H	-2.05	45.10	74.00	28.90
7206.000	34.55	AV	H	-2.05	32.50	54.00	21.50
7206.000	46.79	PK	V	-2.05	44.74	74.00	29.26
7206.000	33.30	AV	V	-2.05	31.25	54.00	22.75
Middle Channel: 2440 MHz							
4880.000	47.35	PK	H	-5.28	42.07	74.00	31.93
4880.000	34.26	AV	H	-5.28	28.98	54.00	25.02
4880.000	46.68	PK	V	-5.28	41.40	74.00	32.60
4880.000	33.69	AV	V	-5.28	28.41	54.00	25.59
7320.000	46.57	PK	H	-1.21	45.36	74.00	28.64
7320.000	33.14	AV	H	-1.21	31.93	54.00	22.07
7320.000	46.88	PK	V	-1.21	45.67	74.00	28.33
7320.000	33.20	AV	V	-1.21	31.99	54.00	22.01
High Channel: 2480 MHz							
4960.000	47.36	PK	H	-5.33	42.03	74.00	31.97
4960.000	34.61	AV	H	-5.33	29.28	54.00	24.72
4960.000	47.24	PK	V	-5.33	41.91	74.00	32.09
4960.000	34.19	AV	V	-5.33	28.86	54.00	25.14
7440.000	46.85	PK	H	-1.21	45.64	74.00	28.36
7440.000	33.65	AV	H	-1.21	32.44	54.00	21.56
7440.000	47.25	PK	V	-1.21	46.04	74.00	27.96
7440.000	34.33	AV	V	-1.21	33.12	54.00	20.88

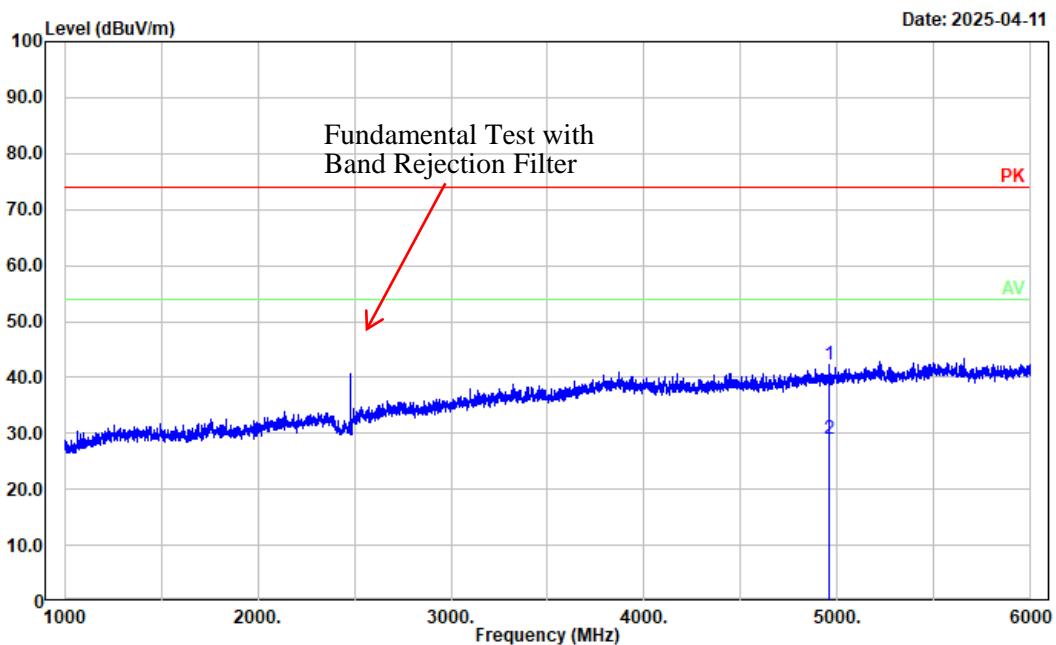
**BLE 2Mbps:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Remark					
Low Channel: 2404 MHz							
4808.000	46.38	PK	H	-5.29	41.09	74.00	32.91
4808.000	33.52	AV	H	-5.29	28.23	54.00	25.77
4808.000	47.12	PK	V	-5.29	41.83	74.00	32.17
4808.000	34.30	AV	V	-5.29	29.01	54.00	24.99
7212.000	46.96	PK	H	-1.99	44.97	74.00	29.03
7212.000	33.75	AV	H	-1.99	31.76	54.00	22.24
7212.000	46.12	PK	V	-1.99	44.13	74.00	29.87
7212.000	33.75	AV	V	-1.99	31.76	54.00	22.24
Middle Channel: 2440 MHz							
4880.000	46.69	PK	H	-5.28	41.41	74.00	32.59
4880.000	33.42	AV	H	-5.28	28.14	54.00	25.86
4880.000	47.31	PK	V	-5.28	42.03	74.00	31.97
4880.000	34.06	AV	V	-5.28	28.78	54.00	25.22
7320.000	46.66	PK	H	-1.21	45.45	74.00	28.55
7320.000	33.84	AV	H	-1.21	32.63	54.00	21.37
7320.000	46.92	PK	V	-1.21	45.71	74.00	28.29
7320.000	33.10	AV	V	-1.21	31.89	54.00	22.11
High Channel: 2478 MHz							
4956.000	47.02	PK	H	-5.36	41.66	74.00	32.34
4956.000	34.36	AV	H	-5.36	29.00	54.00	25.00
4956.000	46.98	PK	V	-5.36	41.62	74.00	32.38
4956.000	33.45	AV	V	-5.36	28.09	54.00	25.91
7434.000	46.26	PK	H	-1.19	45.07	74.00	28.93
7434.000	33.68	AV	H	-1.19	32.49	54.00	21.51
7434.000	45.90	PK	V	-1.19	44.71	74.00	29.29
7434.000	33.30	AV	V	-1.19	32.11	54.00	21.89

**Worst radiation spurious emissions margin test plots for each mode**

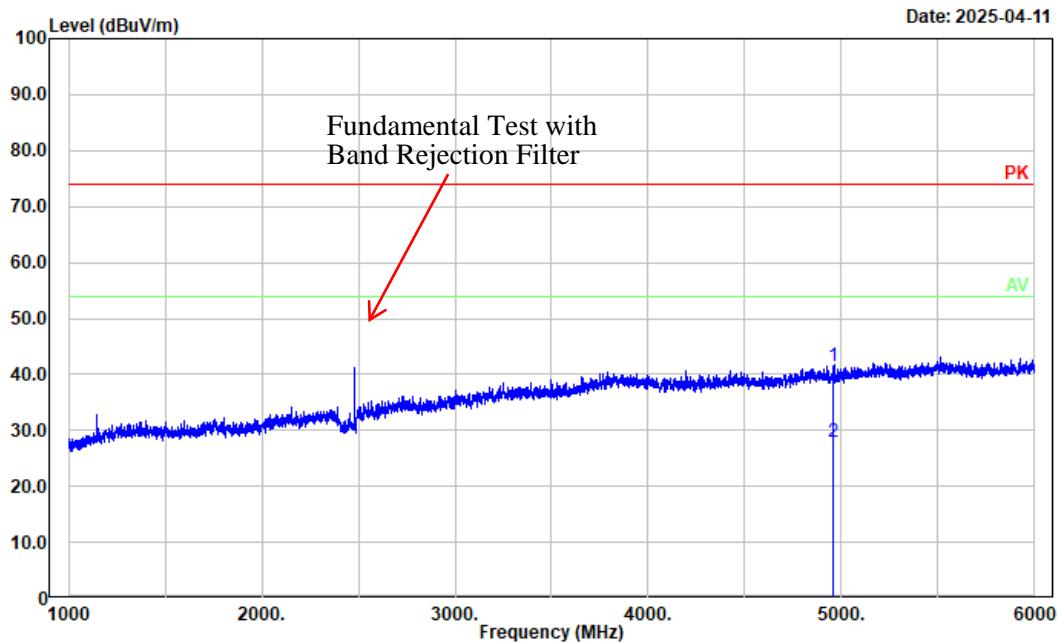
Note: for 18 – 25 GHz range, test was performed on the maximum power mode.

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: horizontal  
Note: BLE 1M High Channel 2480MHz Chain 0



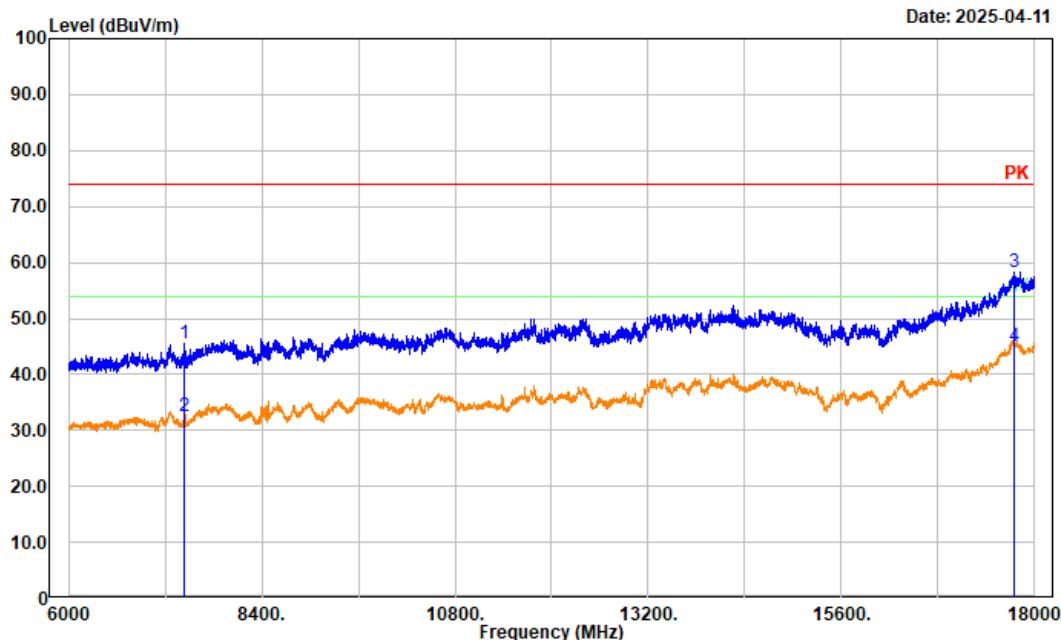
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	4960.000	47.59	-5.33	42.26	74.00	31.74	Peak
2	4960.000	34.35	-5.33	29.02	54.00	24.98	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: vertical  
Note: BLE 1M High Channel 2480MHz Chain 0



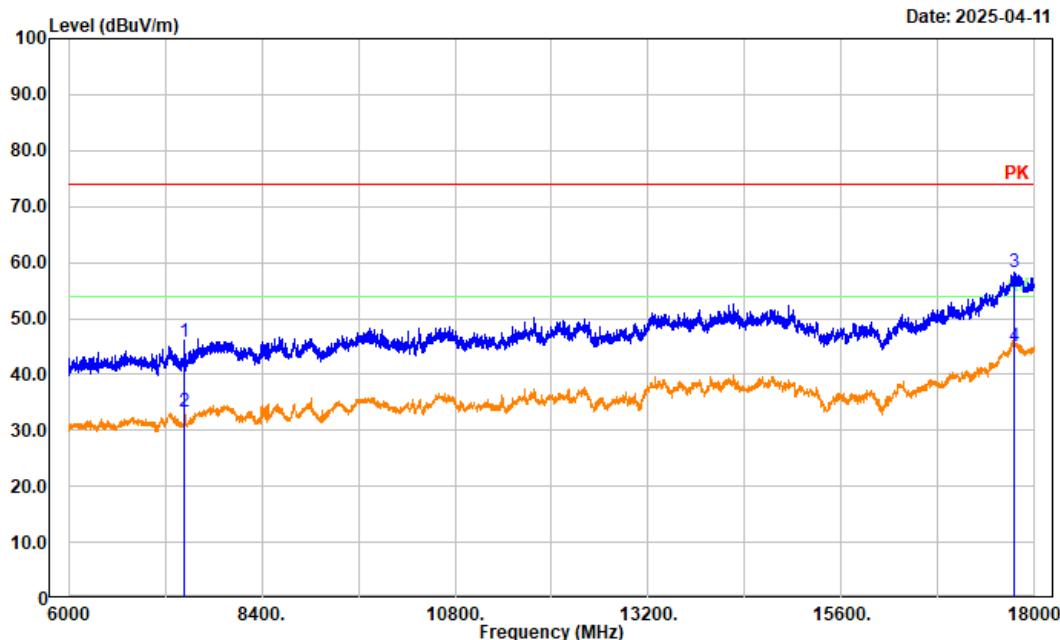
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	4960.000	46.86	-5.33	41.53	74.00	32.47	Peak
2	4960.000	33.35	-5.33	28.02	54.00	25.98	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto  
Polarization: horizontal  
Note: BLE 1M High Channel 2480MHz Chain 0



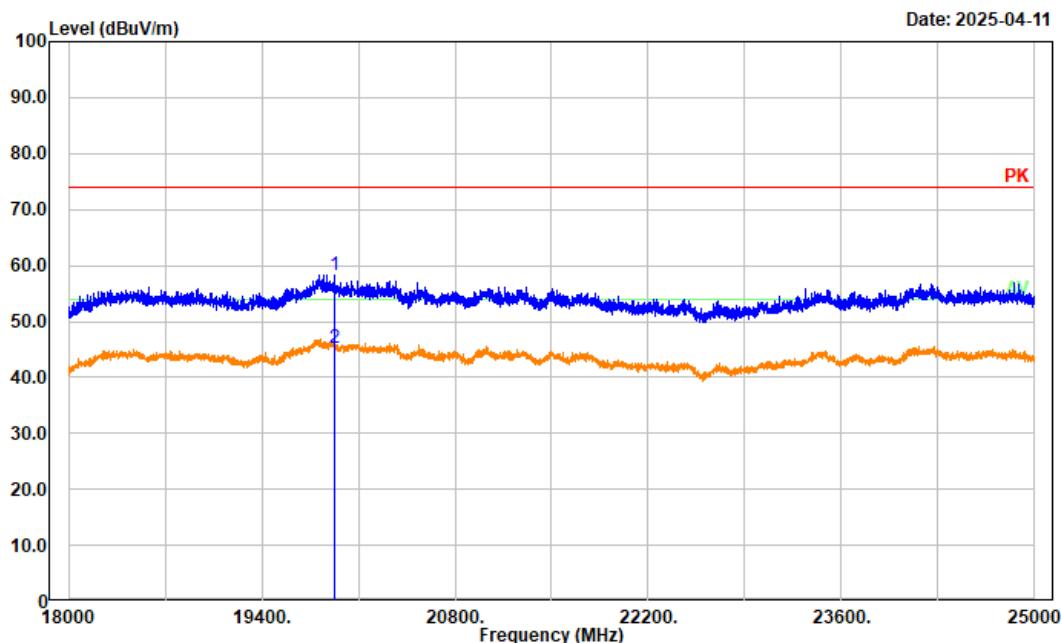
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	7440.000	46.85	-1.21	45.64	74.00	28.36	Peak
2	7440.000	33.63	-1.21	32.42	54.00	21.58	Average
3	17745.600	45.06	13.30	58.36	74.00	15.64	Peak
4	17745.600	31.71	13.30	45.01	54.00	8.99	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto  
Polarization: vertical  
Note: BLE 1M High Channel 2480MHz Chain 0



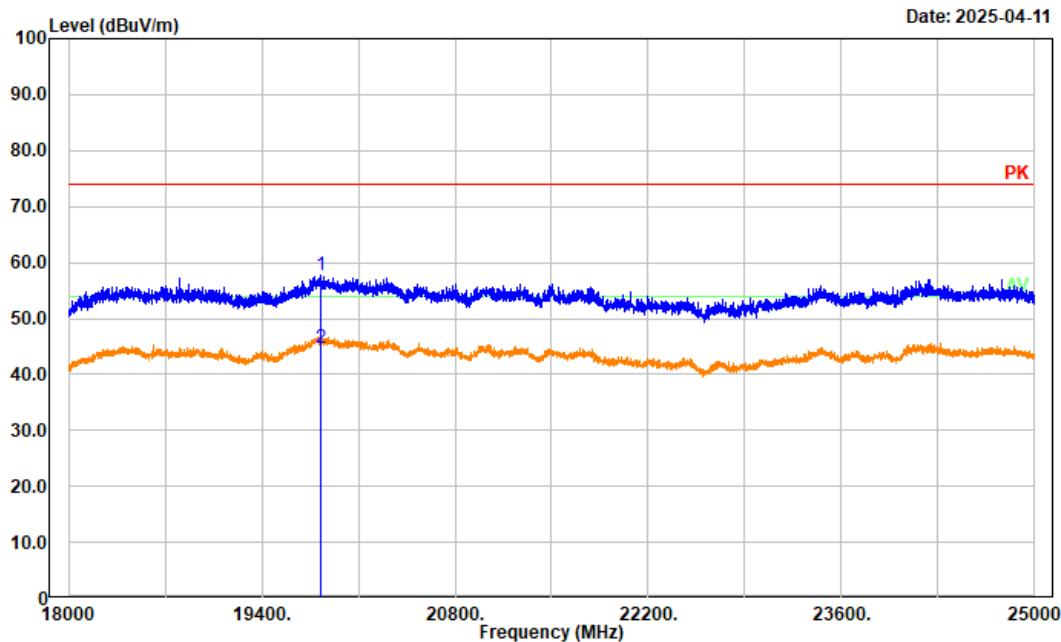
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	7440.000	47.08	-1.21	45.87	74.00	28.13	Peak
2	7440.000	34.49	-1.21	33.28	54.00	20.72	Average
3	17745.600	45.08	13.30	58.38	74.00	15.62	Peak
4	17745.600	31.81	13.30	45.11	54.00	8.89	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto  
Polarization: Horizontal  
Note: BLE 1M High Channel 2480MHz Chain 0



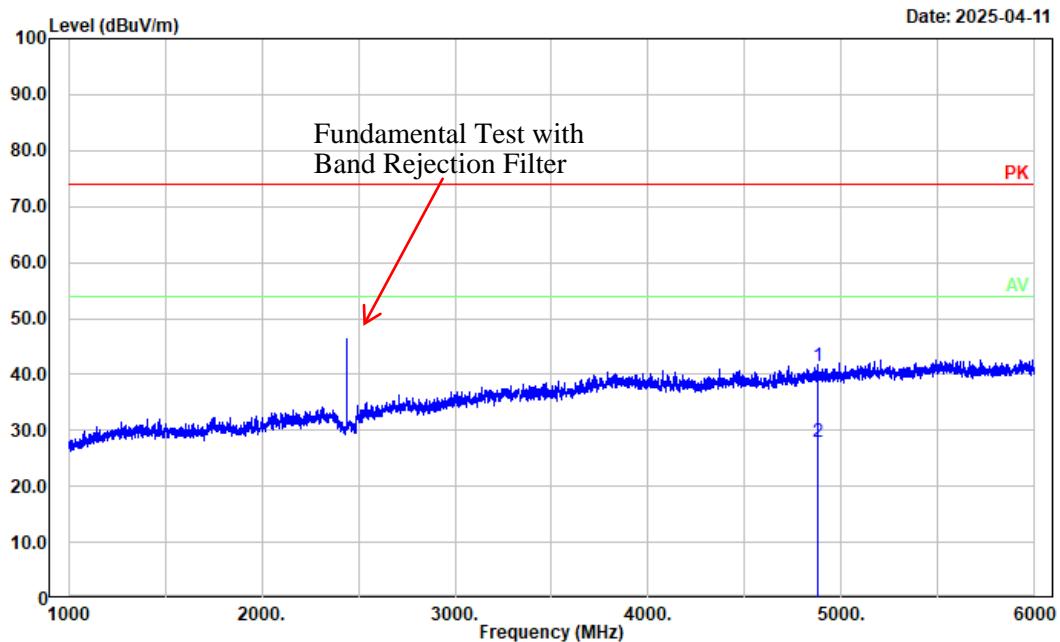
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	19930.600	50.54	7.82	58.36	74.00	15.64	Peak
2	19930.600	37.51	7.82	45.33	54.00	8.67	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto  
Polarization: Vertical  
Note: BLE 1M High Channel 2480MHz Chain 0



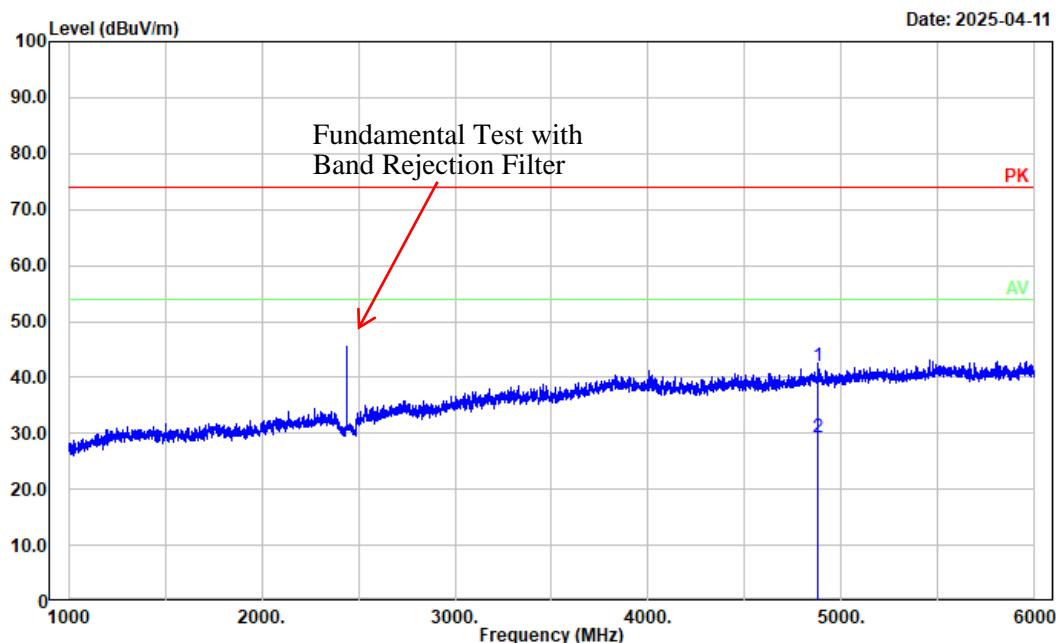
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	19832.600	49.82	7.96	57.78	74.00	16.22	Peak
2	19832.600	36.73	7.96	44.69	54.00	9.31	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: horizontal  
Note: BLE 2M Middle Channel 2440MHz Chain 0



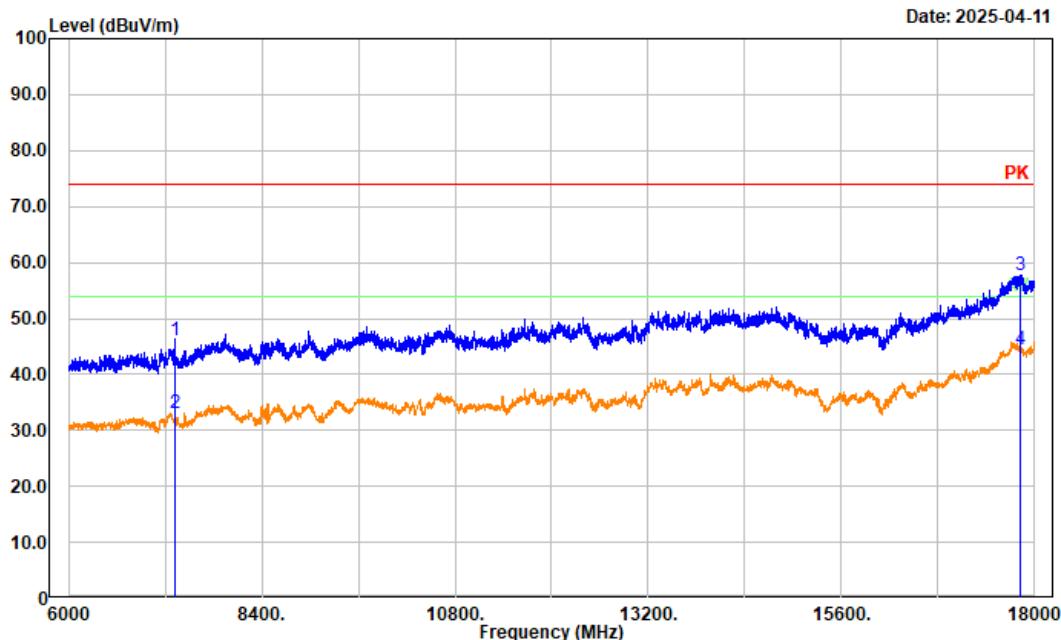
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	4880.000	46.85	-5.28	41.57	74.00	32.43	Peak
2	4880.000	33.21	-5.28	27.93	54.00	26.07	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: vertical  
Note: BLE 2M Middle Channel 2440MHz Chain 0



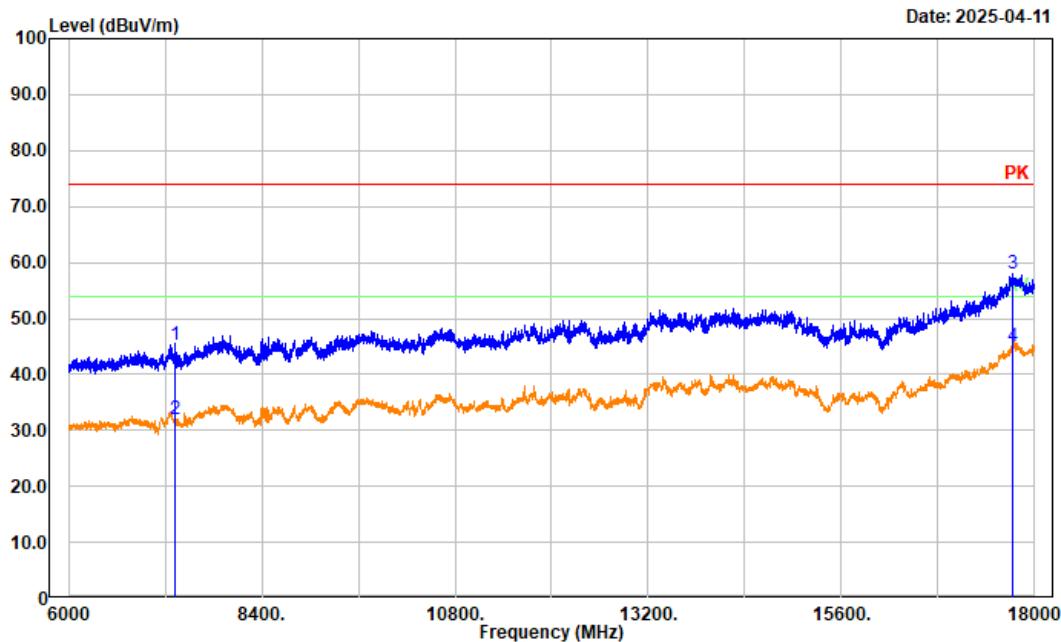
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	4880.000	47.41	-5.28	42.13	74.00	31.87	Peak
2	4880.000	34.62	-5.28	29.34	54.00	24.66	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto  
Polarization: horizontal  
Note: BLE 2M Middle Channel 2440MHz Chain 0



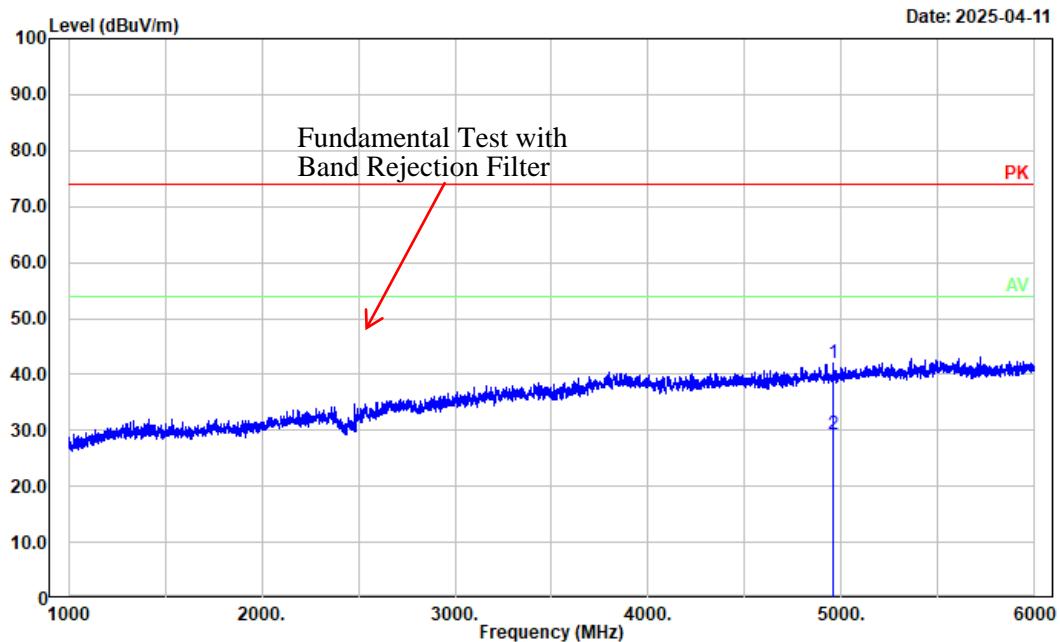
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	7320.000	47.30	-1.21	46.09	74.00	27.91	Peak
2	7320.000	34.19	-1.21	32.98	54.00	21.02	Average
3	17817.600	44.13	13.55	57.68	74.00	16.32	Peak
4	17817.600	30.77	13.55	44.32	54.00	9.68	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto  
Polarization: vertical  
Note: BLE 2M Middle Channel 2440MHz Chain 0



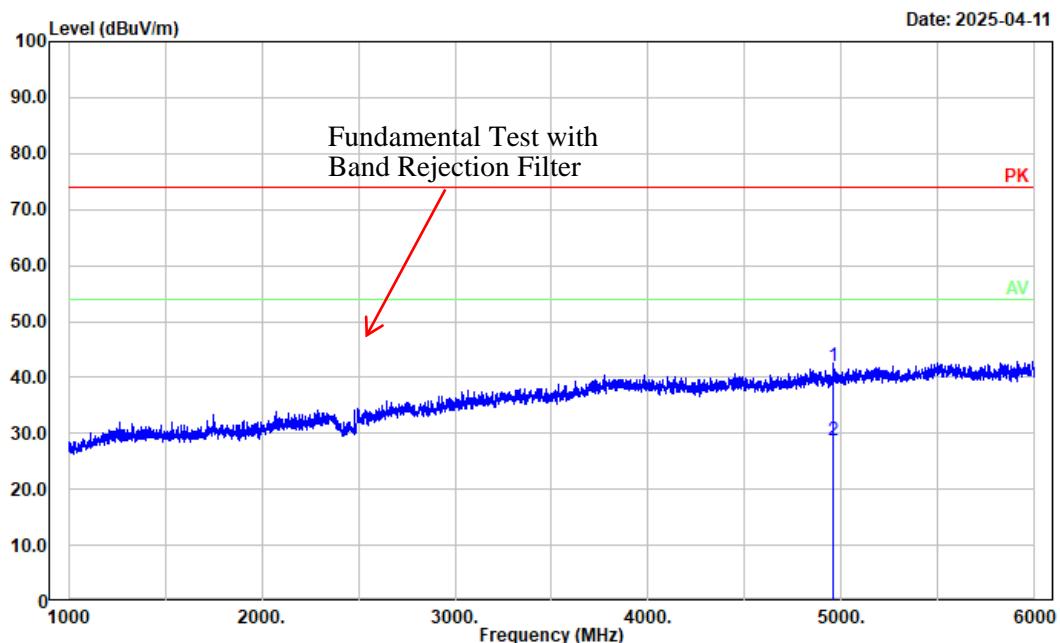
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	7320.000	46.53	-1.21	45.32	74.00	28.68	Peak
2	7320.000	33.20	-1.21	31.99	54.00	22.01	Average
3	17726.400	44.82	13.20	58.02	74.00	15.98	Peak
4	17726.400	31.85	13.20	45.05	54.00	8.95	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: horizontal  
Note: BLE 1M High Channel 2480MHz Chain 1



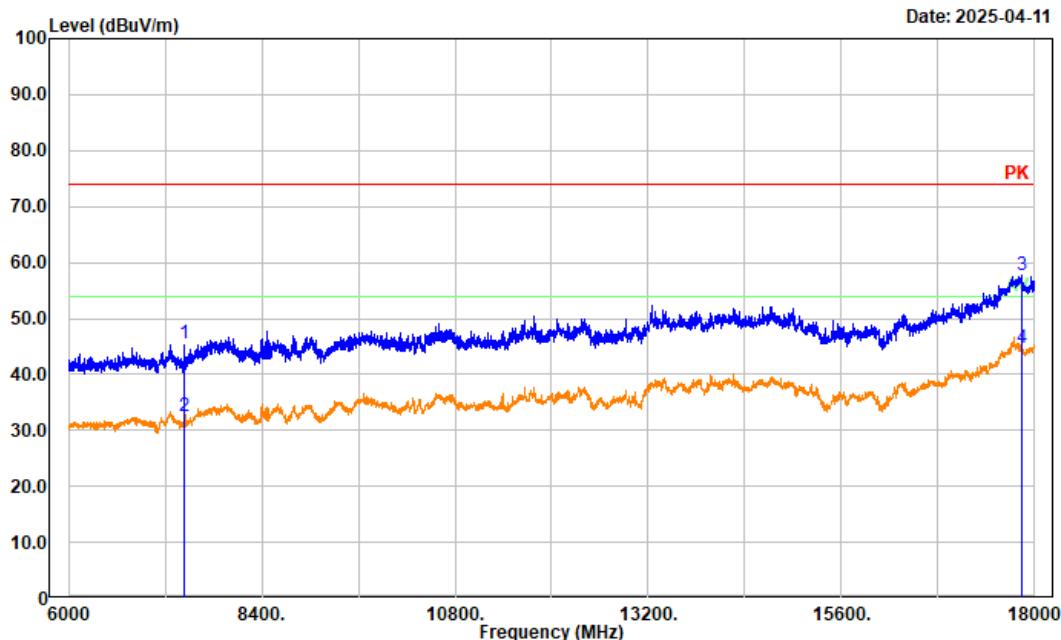
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	4960.000	47.36	-5.33	42.03	74.00	31.97	Peak
2	4960.000	34.61	-5.33	29.28	54.00	24.72	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: vertical  
Note: BLE 1M High Channel 2480MHz Chain 1



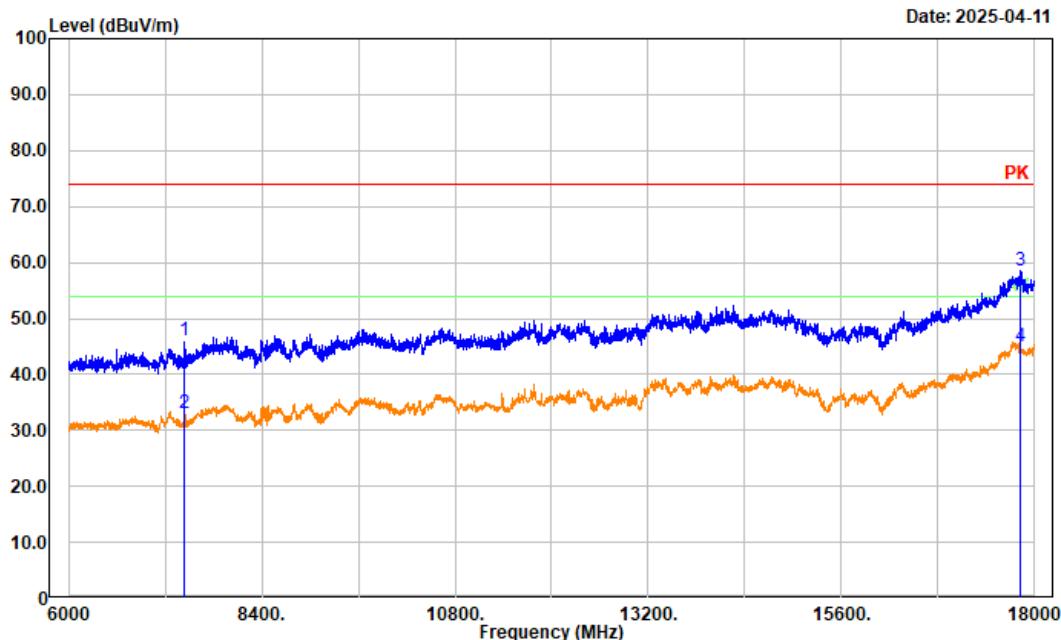
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	4960.000	47.24	-5.33	41.91	74.00	32.09	Peak
2	4960.000	34.19	-5.33	28.86	54.00	25.14	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto  
Polarization: horizontal  
Note: BLE 1M High Channel 2480MHz Chain 1



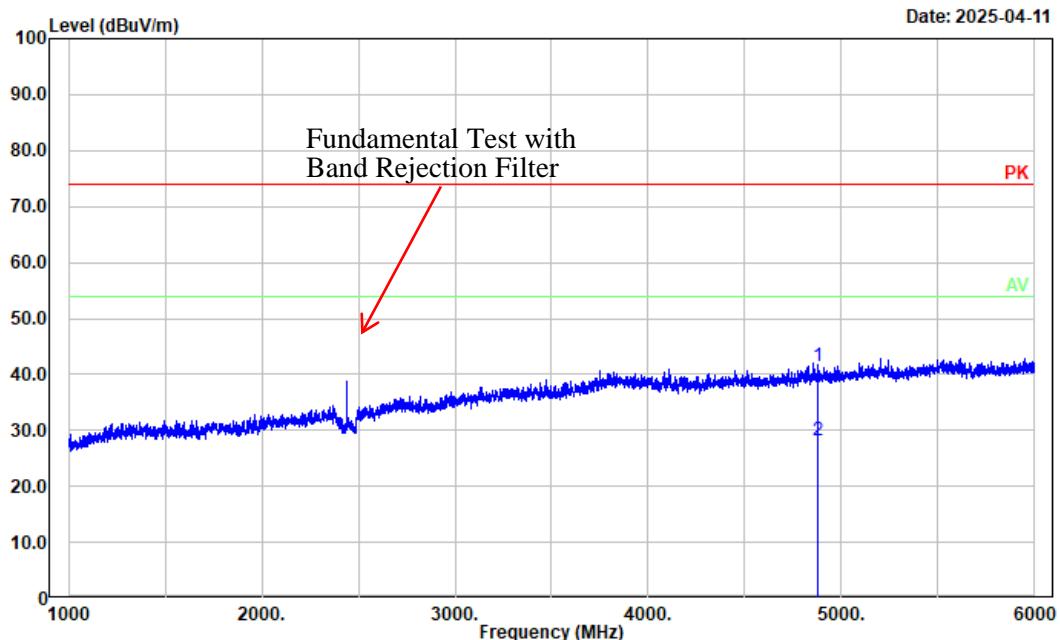
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	7440.000	46.85	-1.21	45.64	74.00	28.36	Peak
2	7440.000	33.65	-1.21	32.44	54.00	21.56	Average
3	17839.200	44.14	13.54	57.68	74.00	16.32	Peak
4	17839.200	31.04	13.54	44.58	54.00	9.42	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto  
Polarization: vertical  
Note: BLE 1M High Channel 2480MHz Chain 1



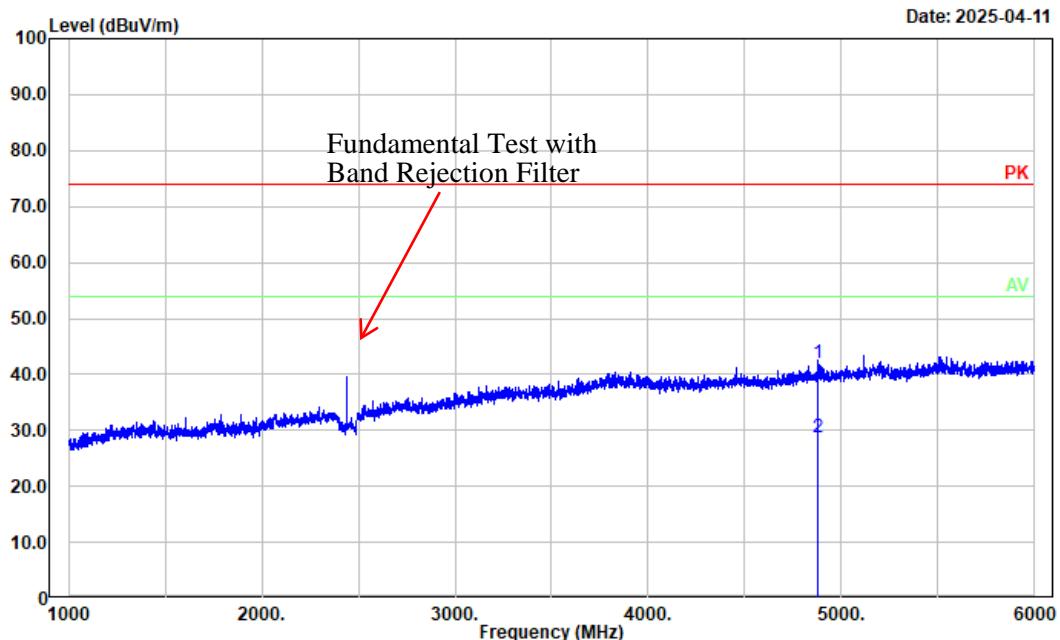
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	7440.000	47.25	-1.21	46.04	74.00	27.96	Peak
2	7440.000	34.33	-1.21	33.12	54.00	20.88	Average
3	17817.600	44.95	13.55	58.50	74.00	15.50	Peak
4	17817.600	31.56	13.55	45.11	54.00	8.89	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: horizontal  
Note: BLE 2M Middle Channel 2440MHz Chain 1



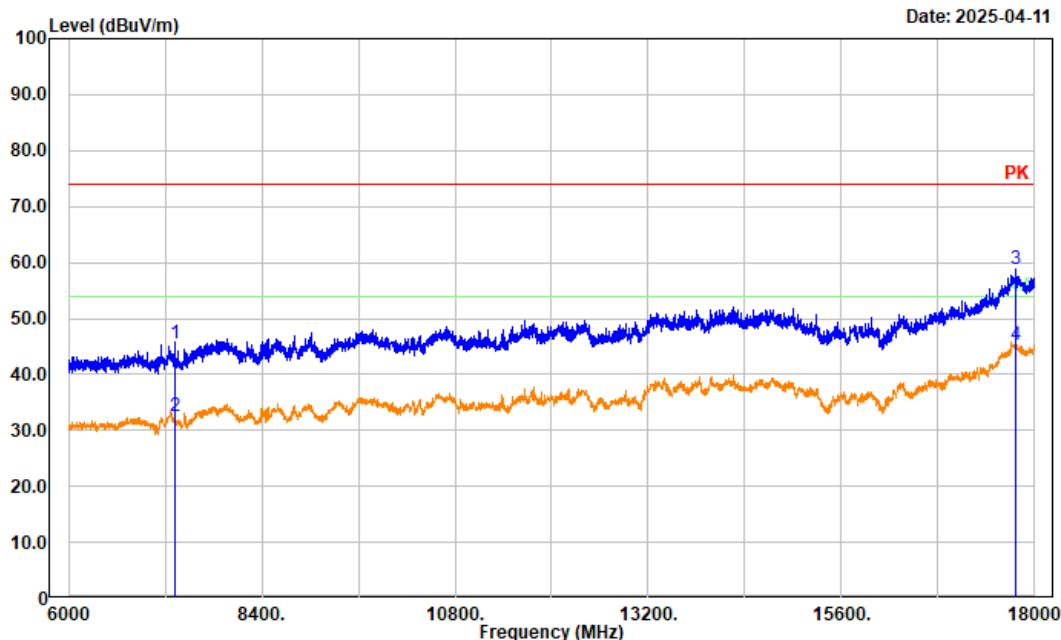
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	4880.000	46.69	-5.28	41.41	74.00	32.59	Peak
2	4880.000	33.42	-5.28	28.14	54.00	25.86	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: vertical  
Note: BLE 2M Middle Channel 2440MHz Chain 1



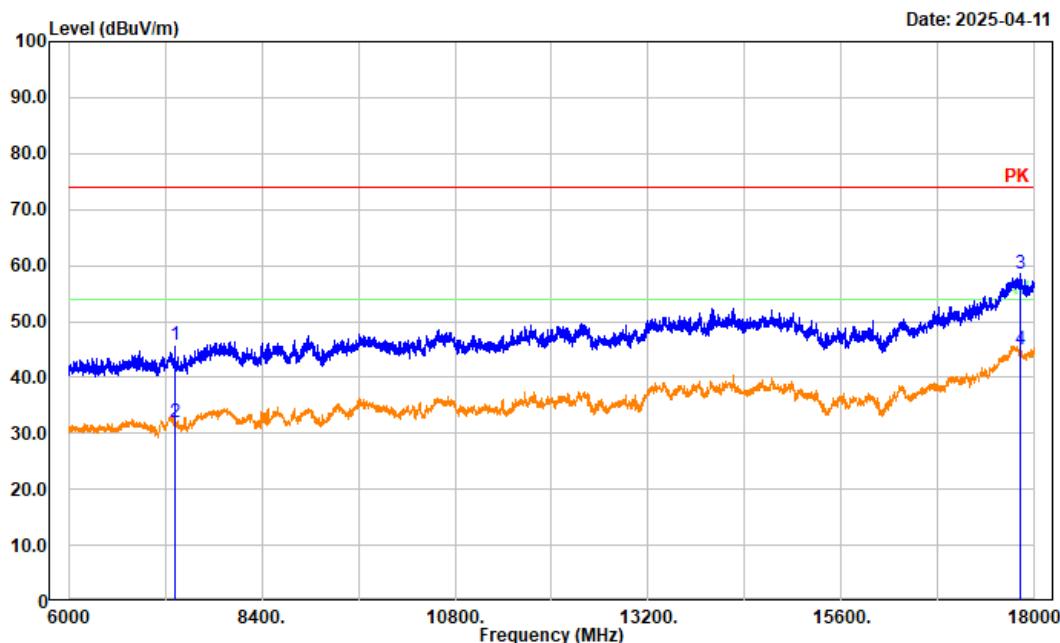
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	4880.000	47.31	-5.28	42.03	74.00	31.97	Peak
2	4880.000	34.06	-5.28	28.78	54.00	25.22	Average

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto  
Polarization: horizontal  
Note: BLE 2M Middle Channel 2440MHz Chain 1



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	7320.000	46.66	-1.21	45.45	74.00	28.55	Peak
2	7320.000	33.84	-1.21	32.63	54.00	21.37	Average
3	17767.200	45.45	13.39	58.84	74.00	15.16	Peak
4	17767.200	31.88	13.39	45.27	54.00	8.73	Average

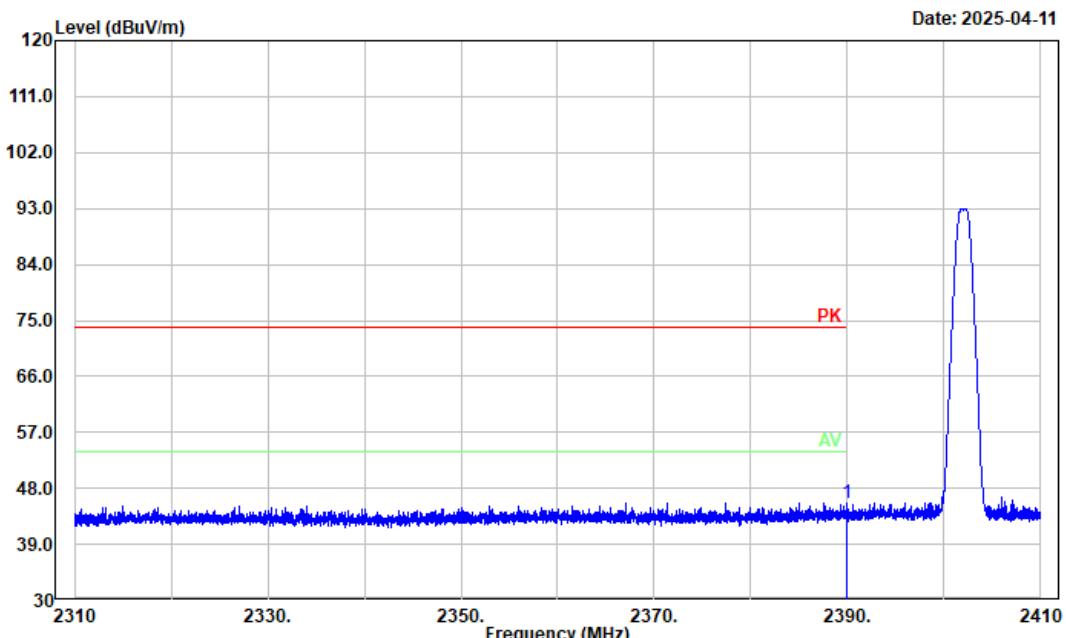
Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto  
Polarization: vertical  
Note: BLE 2M Middle Channel 2440MHz Chain 1



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	7320.000	46.92	-1.21	45.71	74.00	28.29	Peak
2	7320.000	33.10	-1.21	31.89	54.00	22.11	Average
3	17815.200	44.99	13.54	58.53	74.00	15.47	Peak
4	17815.200	31.53	13.54	45.07	54.00	8.93	Average

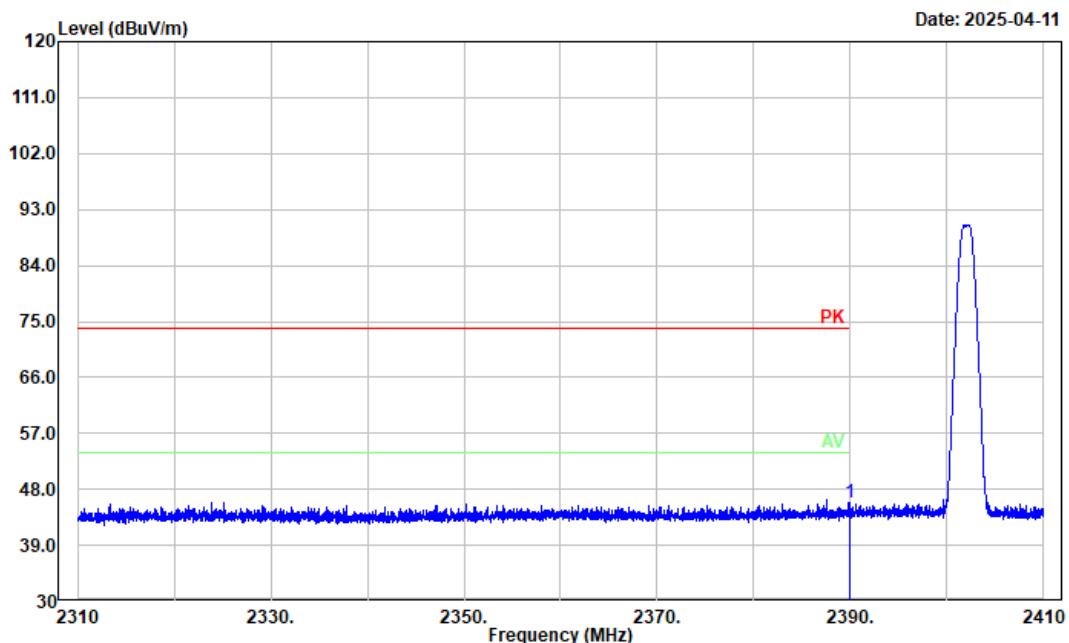
**Band edge test plots**

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Horizontal  
Note: BLE 1M Low Channel 2402MHz Chain 0



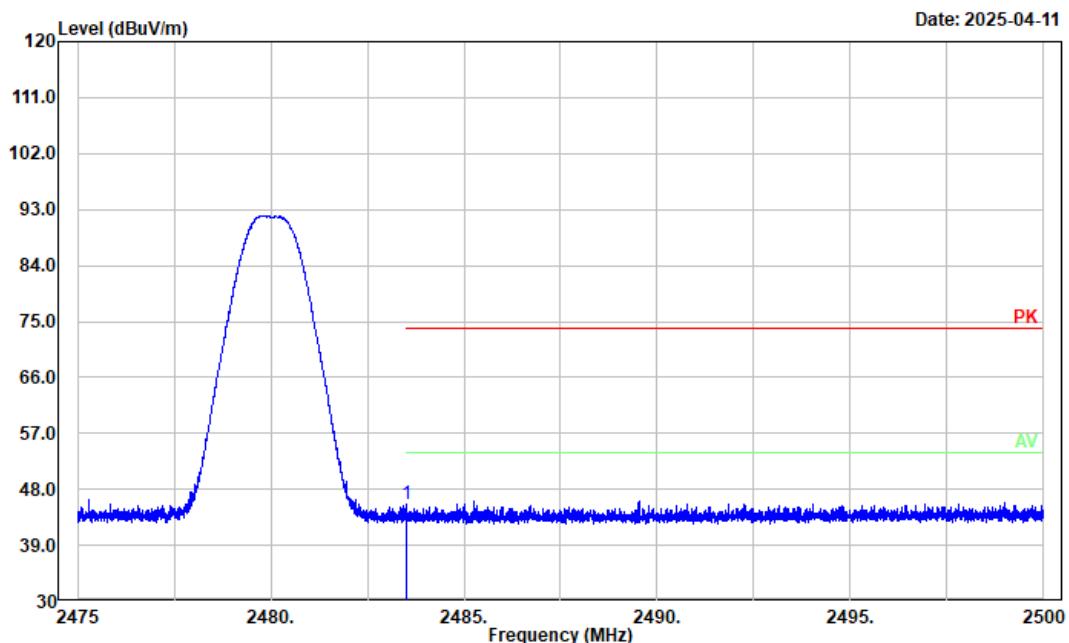
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	2390.000	55.99	-10.30	45.69	74.00	28.31	Peak

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Vertical  
Note: BLE 1M Low Channel 2402MHz Chain 0



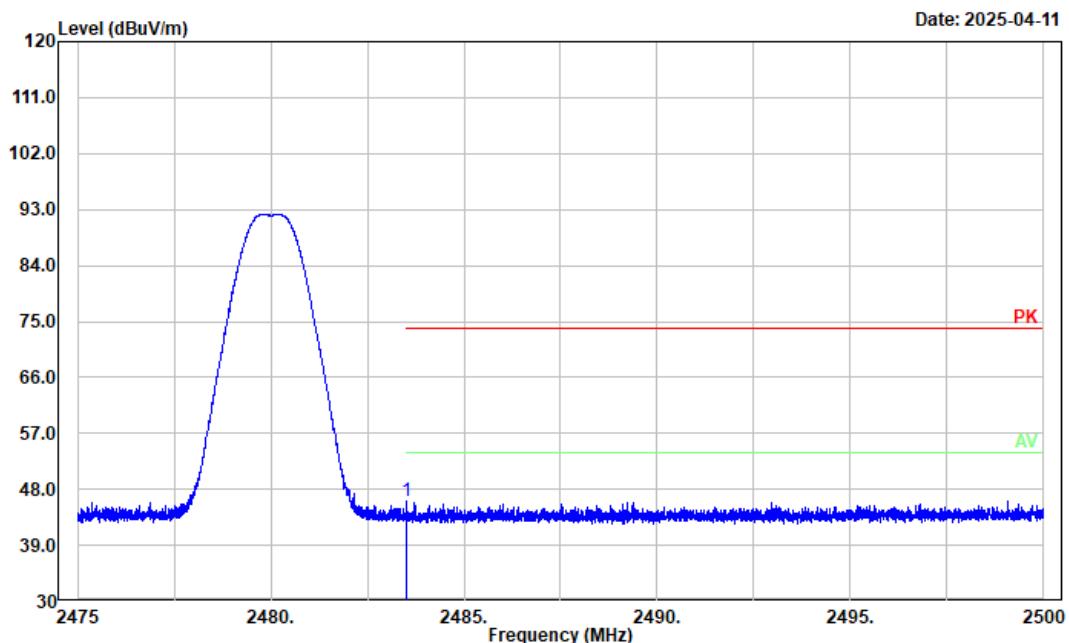
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	2390.000	56.16	-10.30	45.86	74.00	28.14	Peak

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Horizontal  
Note: BLE 1M High Channel 2480MHz Chain 0



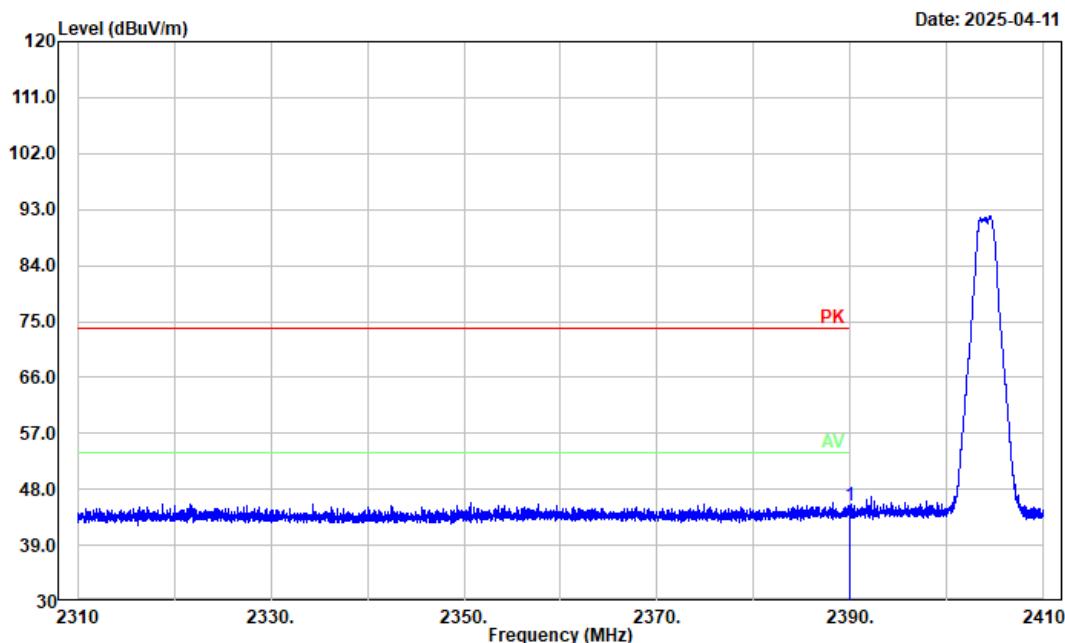
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	2483.500	56.07	-10.40	45.67	74.00	28.33	Peak

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Vertical  
Note: BLE 1M High Channel 2480MHz Chain 0



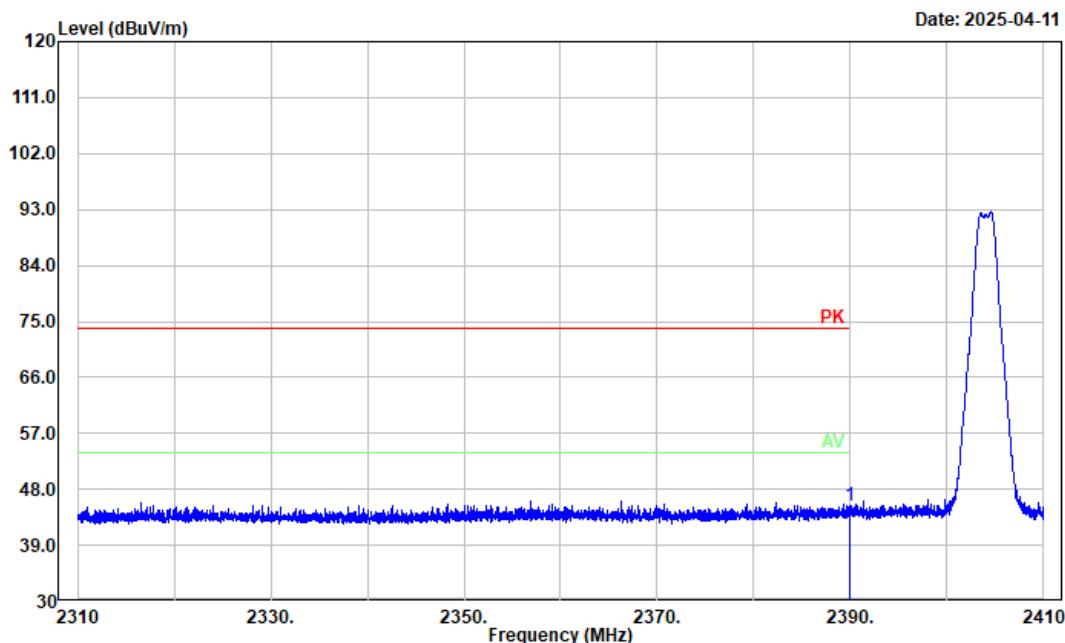
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	2483.500	56.48	-10.40	46.08	74.00	27.92	Peak

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Horizontal  
Note: BLE 2M Low Channel 2404MHz Chain 0



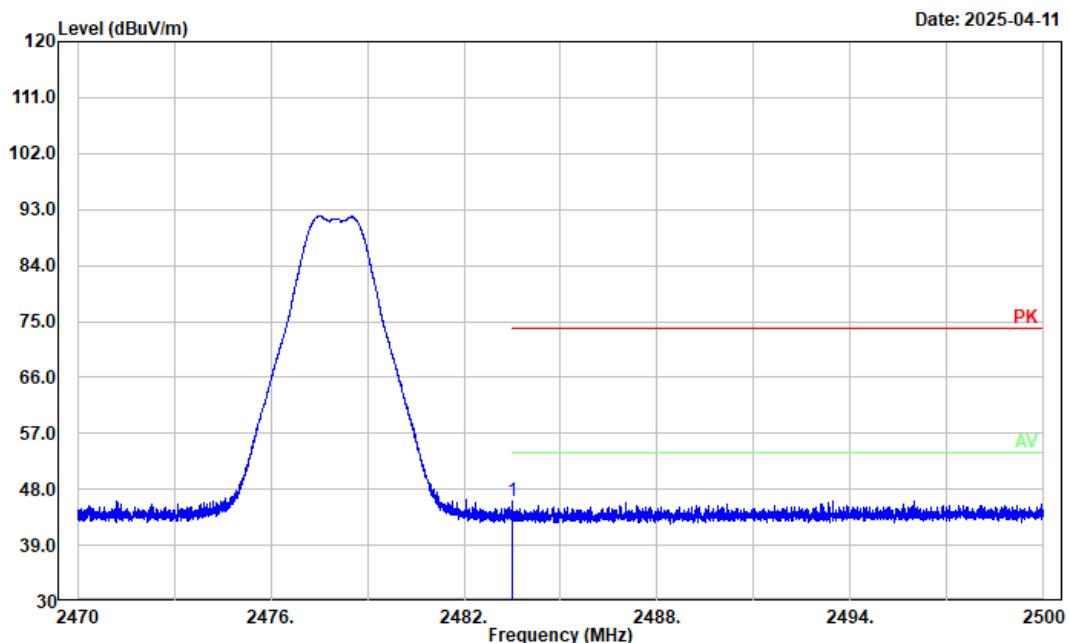
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
<hr/>							
1	2390.000	55.55	-10.30	45.25	74.00	28.75	Peak

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Vertical  
Note: BLE 2M Low Channel 2404MHz Chain 0



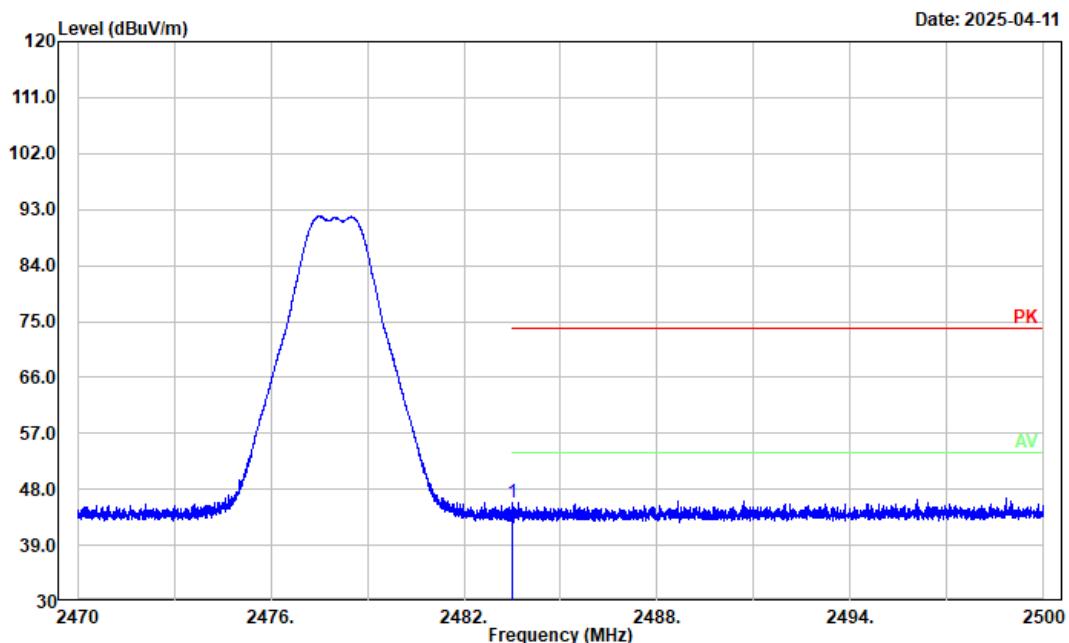
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	2390.000	55.78	-10.30	45.48	74.00	28.52	Peak

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Horizontal  
Note: BLE 2M High Channel 2478MHz Chain 0



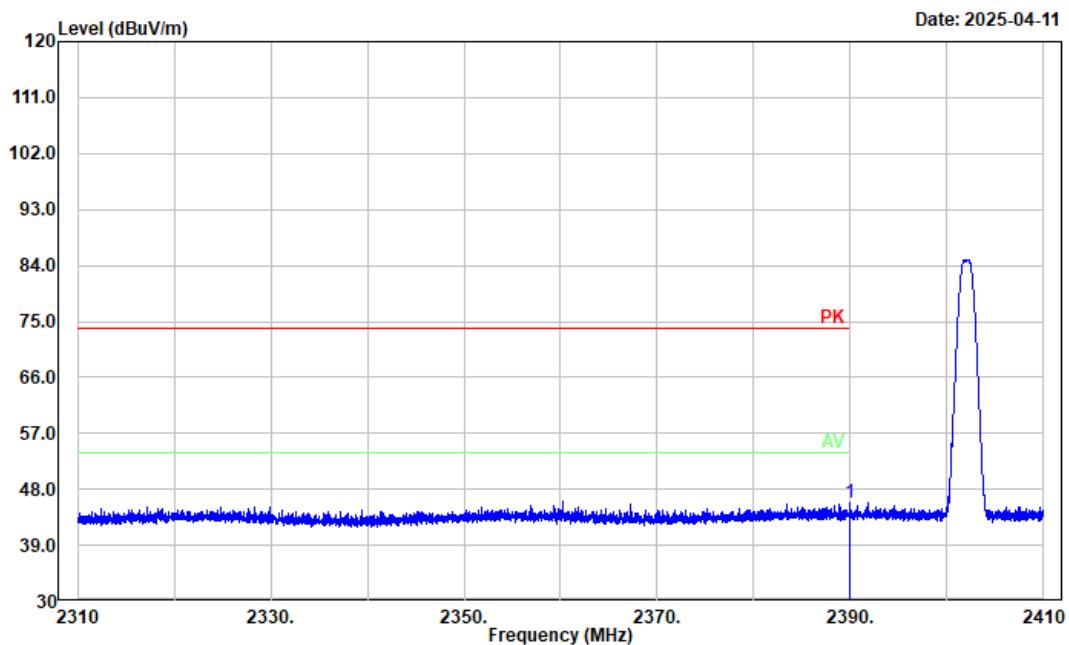
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	2483.500	56.38	-10.40	45.98	74.00	28.02	Peak

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Vertical  
Note: BLE 2M High Channel 2478MHz Chain 0



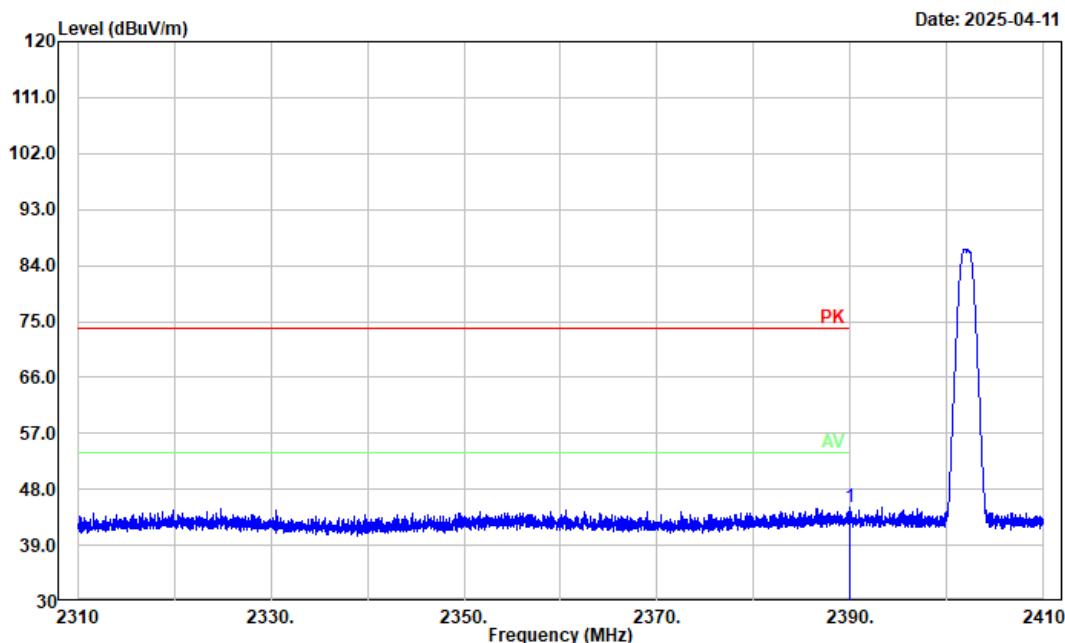
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	2483.500	56.30	-10.40	45.90	74.00	28.10	Peak

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Horizontal  
Note: BLE 1M Low Channel 2402MHz Chain 1



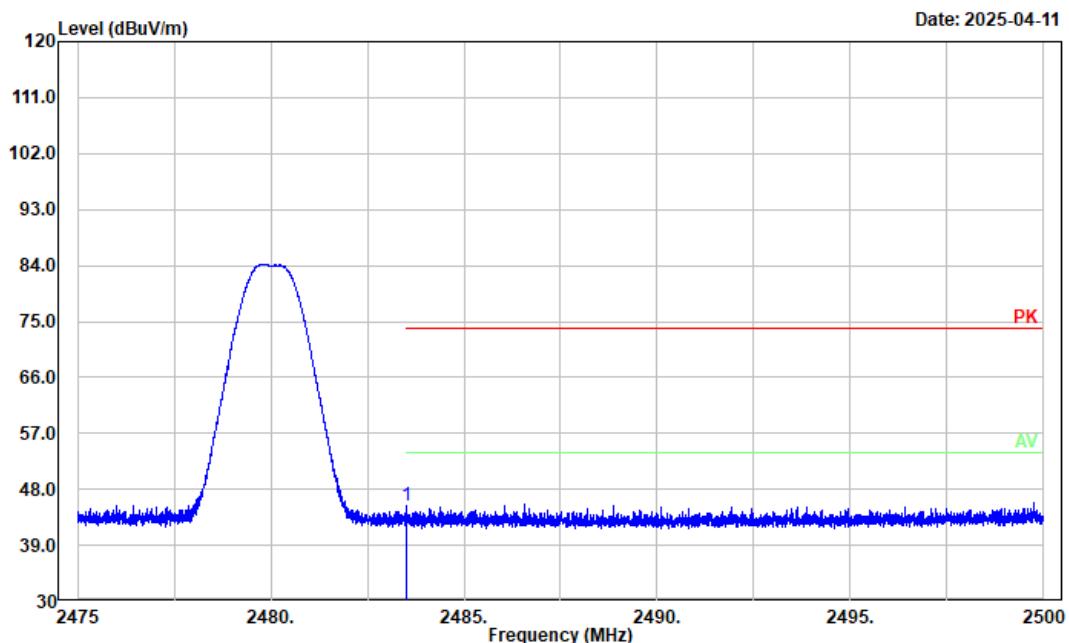
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	2390.000	56.09	-10.30	45.79	74.00	28.21	Peak

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Vertical  
Note: BLE 1M Low Channel 2402MHz Chain 1



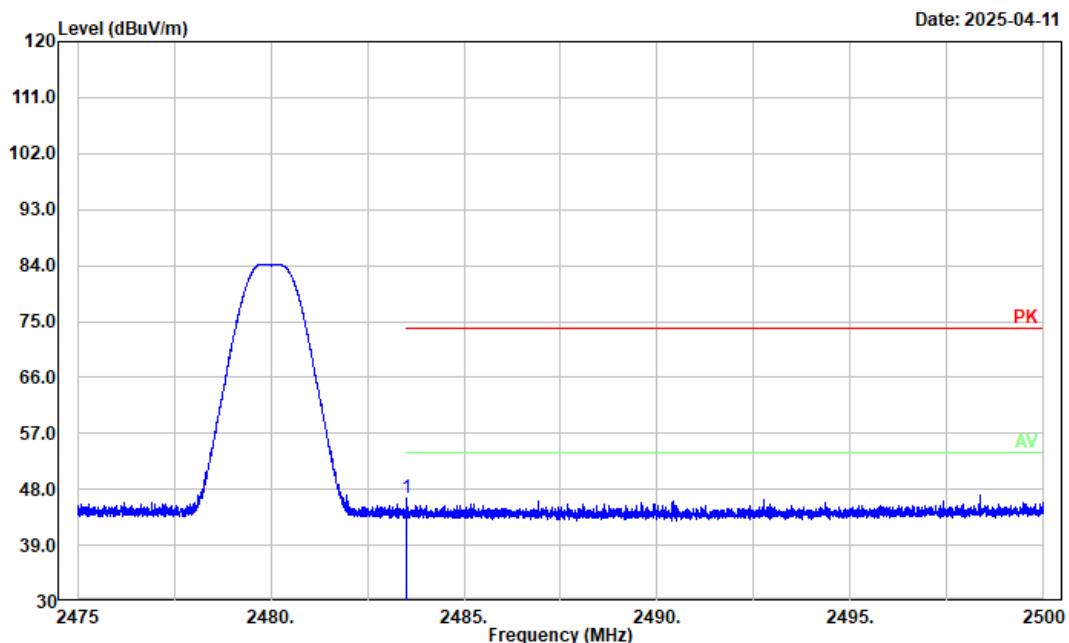
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	2390.000	55.41	-10.30	45.11	74.00	28.89	Peak

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Horizontal  
Note: BLE 1M High Channel 2480MHz Chain 1



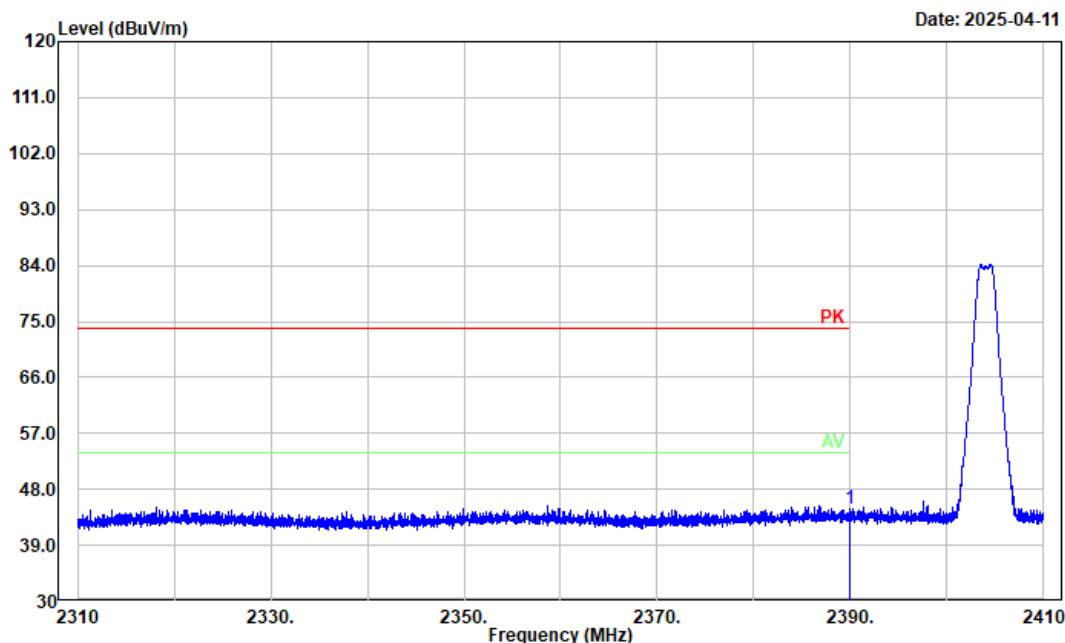
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	2483.500	55.77	-10.40	45.37	74.00	28.63	Peak

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Vertical  
Note: BLE 1M High Channel 2480MHz Chain 1



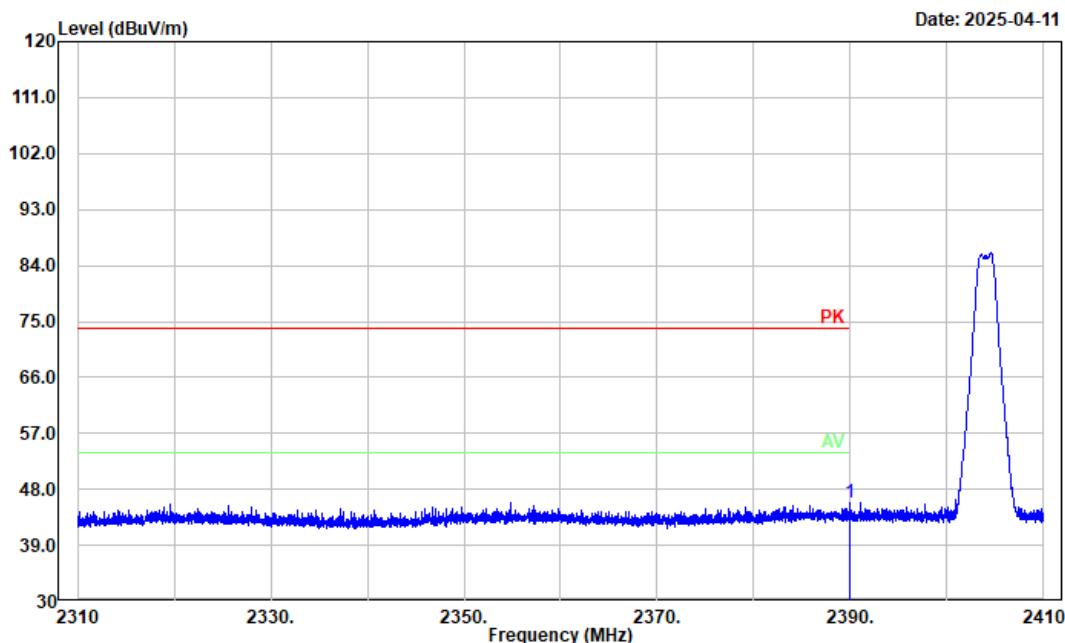
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	2483.500	56.92	-10.40	46.52	74.00	27.48	Peak

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Horizontal  
Note: BLE 2M Low Channel 2404MHz Chain 1



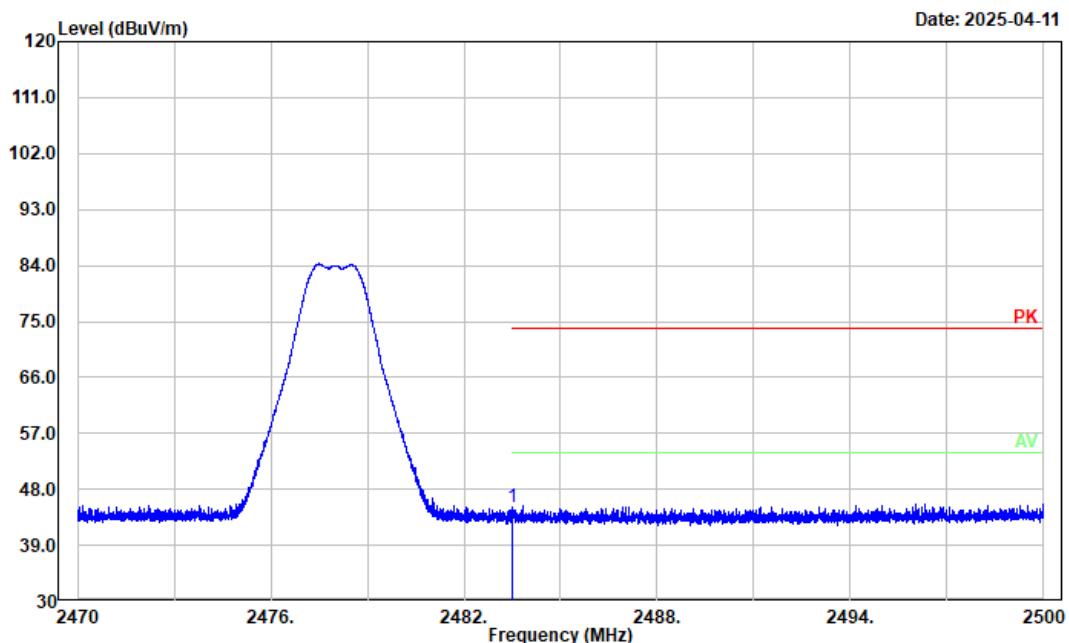
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	2390.000	55.10	-10.30	44.80	74.00	29.20	Peak

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Vertical  
Note: BLE 2M Low Channel 2404MHz Chain 1



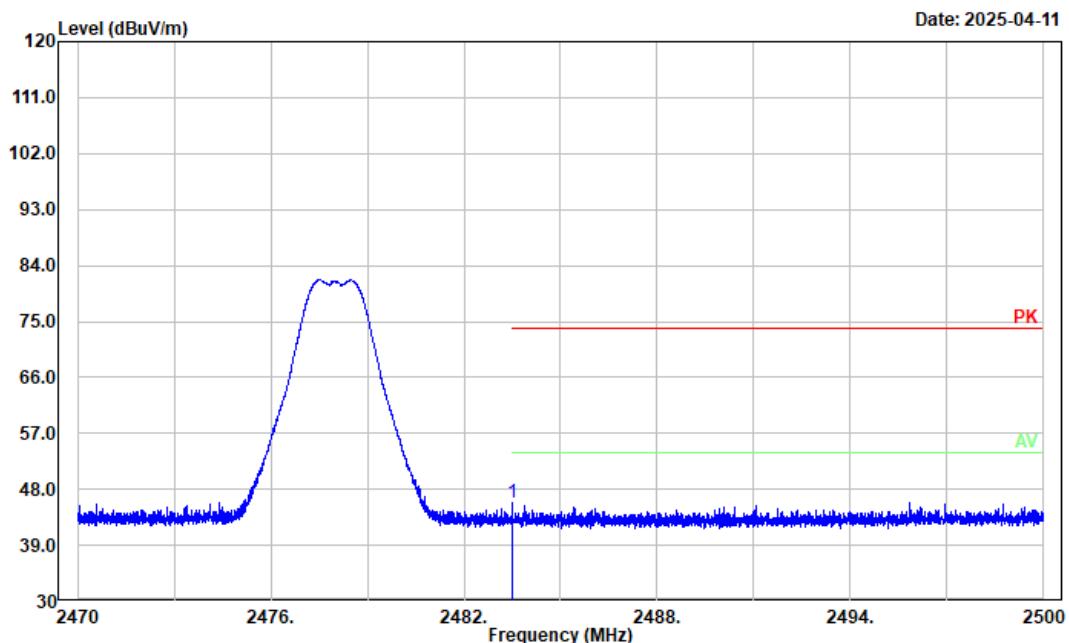
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	2390.000	56.10	-10.30	45.80	74.00	28.20	Peak

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Horizontal  
Note: BLE 2M High Channel 2478MHz Chain 1



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	2483.500	55.43	-10.40	45.03	74.00	28.97	Peak

Project No.: 2503S20876E-RF  
Tester: Mack Huang  
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec  
Polarization: Vertical  
Note: BLE 2M High Channel 2478MHz Chain 1



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Remark
1	2483.500	56.26	-10.40	45.86	74.00	28.14	Peak

#### **4.3 RF Conducted Data**

Please refer to Annex " 2503S20876E-RF-00A \_Appendix A Chain 1" for detail test data.

Please refer to Annex " 2503S20876E-RF-00A \_Appendix A Chain 0" for detail test data.

## 5. RF EXPOSURE EVALUATION

### 5.1 5.1 Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

- $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \bullet [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$
- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
  - Power and distance are rounded to the nearest mW and mm before calculation
  - The result is rounded to one decimal place for comparison
  - 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $<$  5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

### 5.2 5.2 Measurement Result

Frequency (MHz)	Conducted Output Power Including Tolerance		Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
	(dBm)	(mW)				
2402-2480	3	2	5	0.6	3	Yes

Note: The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

Result: Compliant. The stand-alone SAR test is not necessary.

## **6. EUT PHOTOGRAPHS**

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Please refer to the attachment 2503S20876E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2503S20876E-RF-INP EUT INTERNAL PHOTOGRAPHS

## **7. TEST SETUP PHOTOGRAPHS**

Please refer to the attachment 2503S20876E-RF-00A-TSP TEST SETUP PHOTOGRAPHS.

**===== END OF REPORT =====**