



中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Shenzhen Lewa Sports Technology Co., Ltd.

Address: 16th Floor, Building A, Wanhe Science and Technology
Building, Guangming District, Shenzhen, China

FCC ID: 2BVUQ-T1

Product Name: Tennis Ball Machine

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: 2603R48928E-RF-00A

Date Of Issue: 2026/5/25

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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 Room 101 & 201, Building 2, 256 Pingdong Road, Dalang Town, Dongguan City, 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.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

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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	2603R48928E-RF-00A	Original Report	2026/5/25

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General

EUT Name:	Tennis Ball Machine
EUT Model:	Novashot T1
Operation Frequency:	BLE: 2402-2480 MHz
Maximum Peak Output Power (Conducted):	-5.05dBm
Modulation Type:	GFSK
Rated Input Voltage:	DC 29.6V from battery
Sample Number:	3IPJ-5
EUT Received Date:	2026/3/26
EUT Received Status:	Good

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

1.1.3 Antenna Information Detail[▲]

Antenna Type	Input Impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
PCB	50	2400-2500	-0.58

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	Parameters
/	/	/	/

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.			
Equipment Modifications:	No			
EUT Exercise Software:	FCC_assist_1.0.2.2.exe			
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲：				
Test Modes	Power Level Setting			
	Lowest Channel	Middle Channel	Highest Channel	
BLE 1Mbps	Default	Default	Default	
BLE 2Mbps	Default	Default	Default	

1.2.2 Support Equipment List and Details

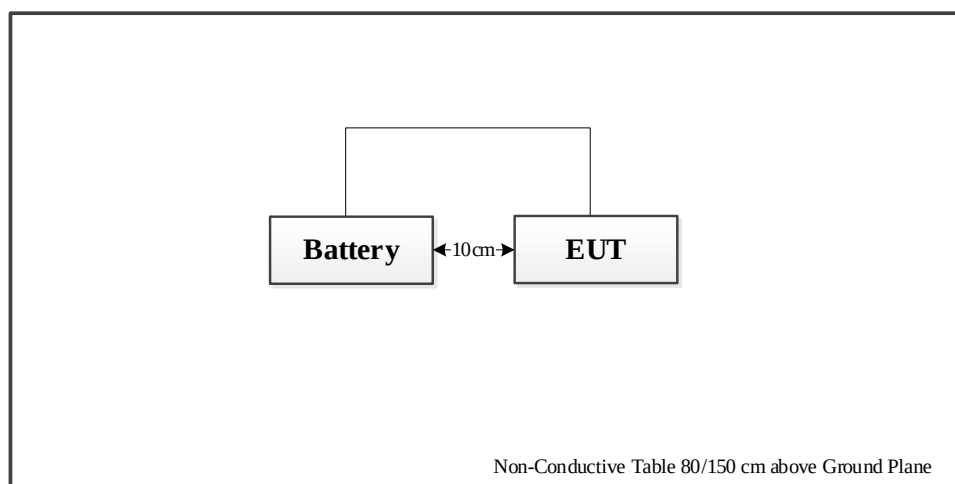
Manufacturer	Description	Model	Serial Number
Unknown	Lithium battery	JH2410TP5	Unknown

1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	No	No	0.2	Battery	EUT

1.2.4 Block Diagram of Test Setup

Radiated 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

Standard(s) Section	Test Items	Result
FCC §15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Not Applicable
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions	Compliant
§15.247 (a)(2)	Minimum 6 dB Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247(d)	Conducted Spurious Emission	Compliant

Note:

Not Applicable: The device powered by External Battery while operating.

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 μ 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 μ 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:

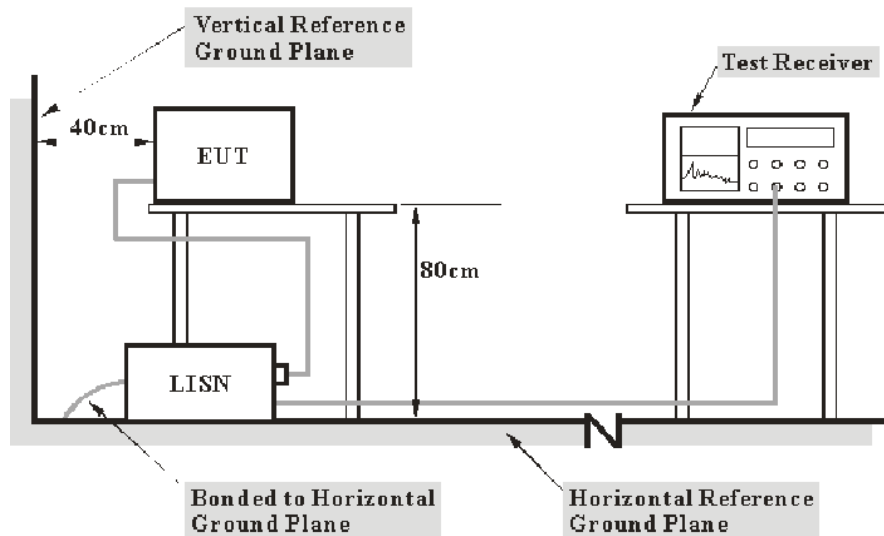
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ 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

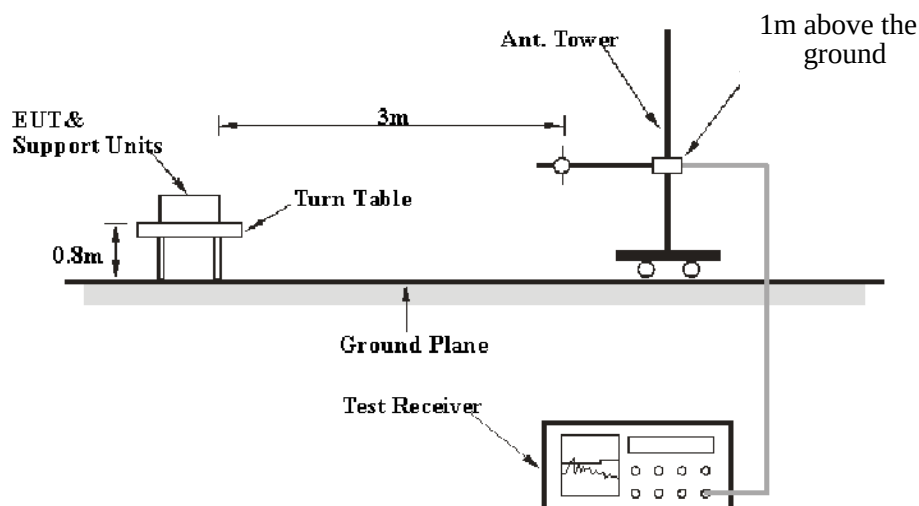
3.2.1 Applicable Standard

FCC §15.247 (d);

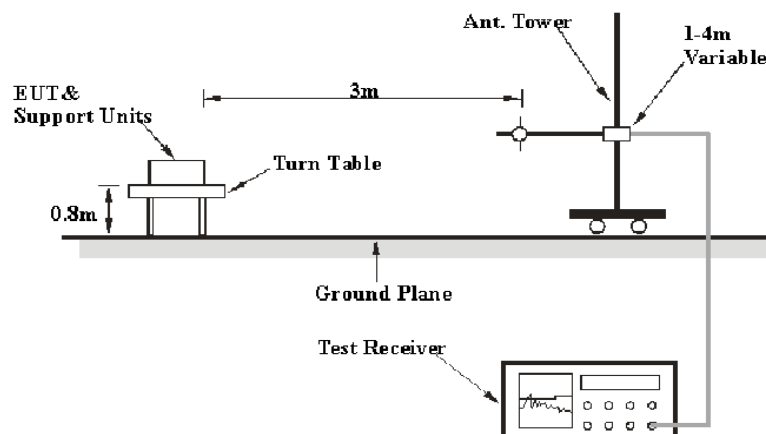
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

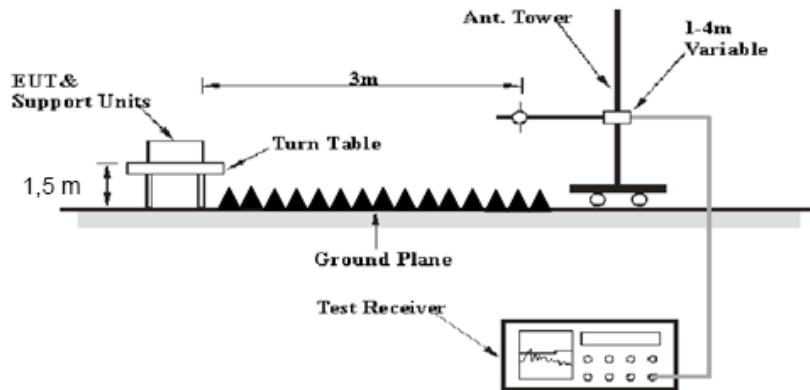
3.2.2 EUT Setup

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.

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	200 Hz	1 kHz	/	Peak	PK
	/	/	200 Hz	Quasi Peak/ Average	QP/AV
150 kHz – 30 MHz	9 kHz	30 kHz	/	Peak	PK
	/	/	9 kHz	Quasi Peak/ Average	QP/AV
30MHz – 1000 MHz	120 kHz	500 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	$\geq 1/T$, 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

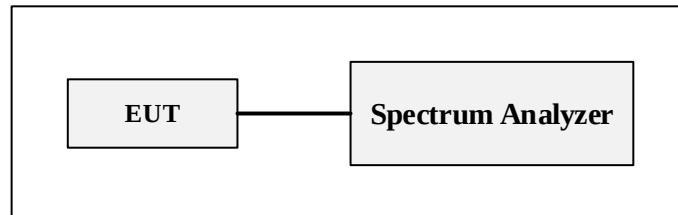
3.3 Minimum 6 dB Bandwidth

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.

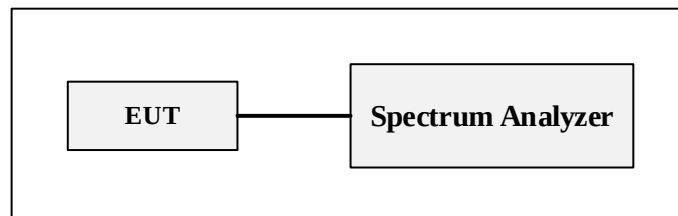
3.4 Maximum Conducted Output Power

3.4.1 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.

3.4.2 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 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.

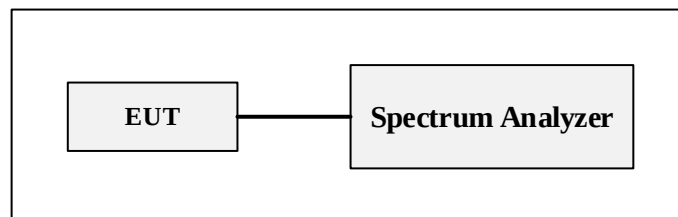
3.5 Maximum Power Spectral Density

3.5.1 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.

3.5.2 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 11.10.2

- 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.

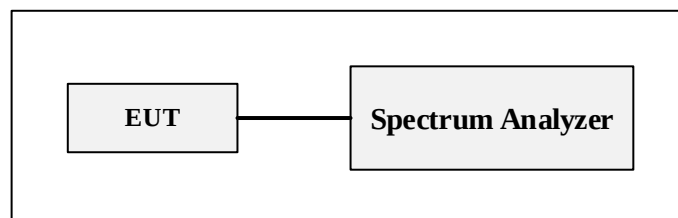
3.6 Conducted Spurious Emission

3.6.1 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)).

3.6.2 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 11.11

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.

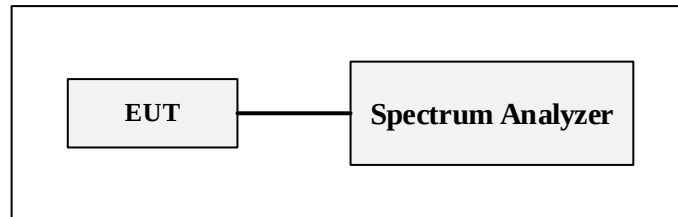
g) Allow trace to fully stabilize.

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.

3.7 Duty Cycle

3.7.1 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.

3.7.2 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 $T \leq 16.7 \mu s$.)

3.8 Antenna Requirement

3.8.1 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.

3.8.2 Judgment

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

4. TEST DATA AND RESULTS

4.1 Radiation Spurious Emissions

4.1.1 9 kHz – 1 GHz

Sample Number:	3IPJ-1	Test Date:	2026/4/9
Test Site:	966-1	Test Mode:	Transmitting (maximum conducted output power mode, BLE 2Mbps high channel)
Tester:	Jin He	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.7	Relative Humidity: (%)	54	ATM Pressure: (kPa)	100.5
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Test Equipment List and Details:

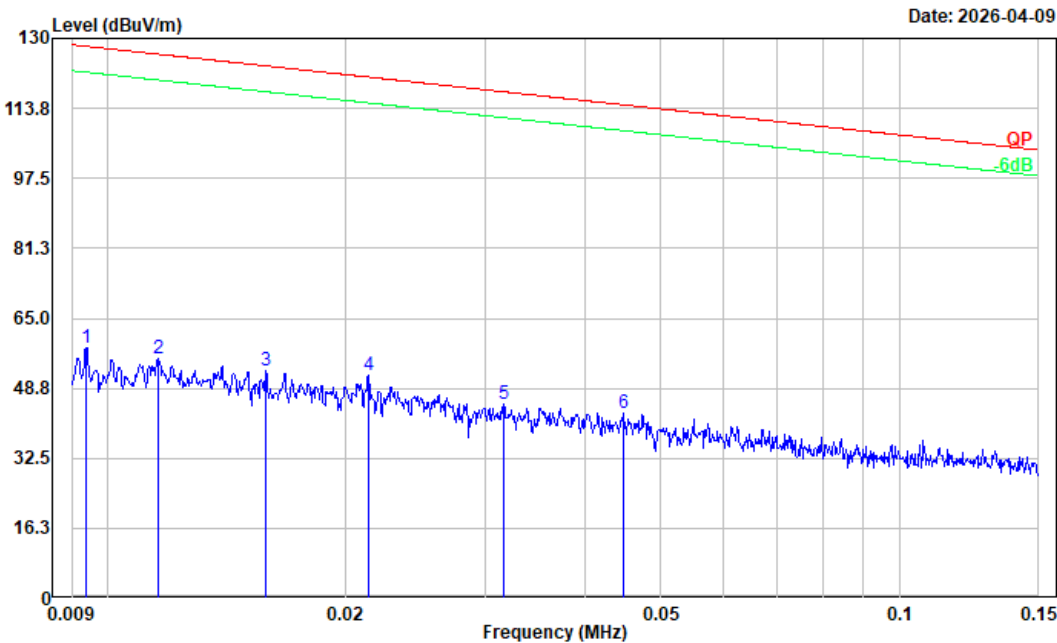
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
GLOBAL	Loop Antenna	1313-1A	3110611	2026/1/29	2029/1/28
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0300-01	2025/11/10	2026/11/9
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0500-01	2025/11/10	2026/11/9
R&S	EMI Test Receiver	ESR3	102724	2026/2/27	2027/2/26
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2025/11/10	2026/11/9
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2025/11/10	2026/11/9
XQY	Coaxial Cable	XQY-CMR400UF-NJ-NJ-7M	24056379	2025/6/4	2026/6/3
Sonoma	Amplifier	310N	186165	2025/11/10	2026/11/9
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:

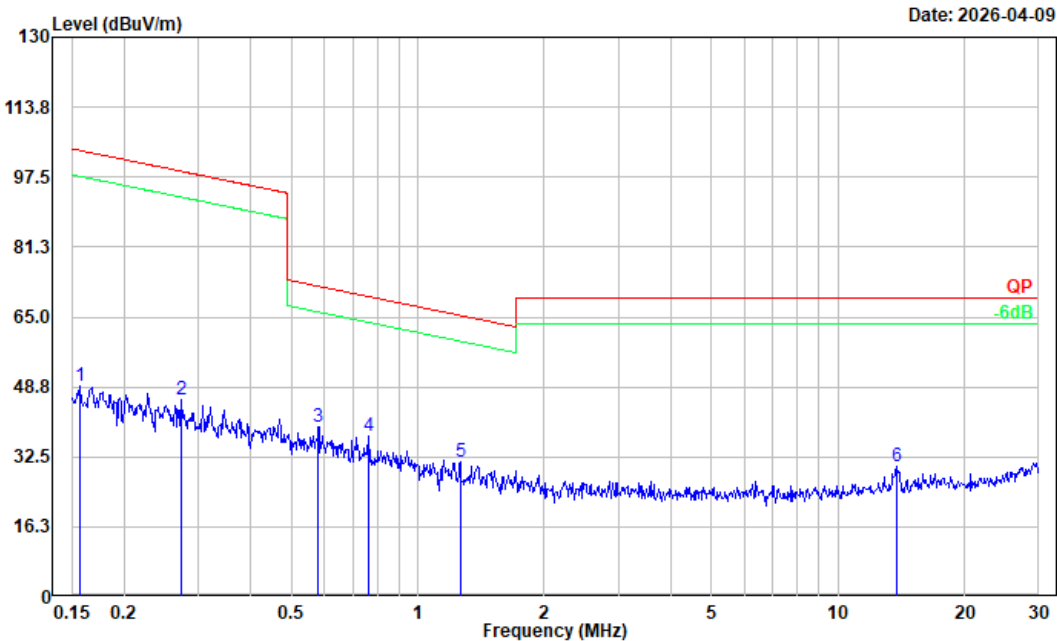
Please refer to the below plots.

Project No.: 2603R48928E-RF
Tester: Jin He
Condition: RBW:0.2 kHz VBW:1 kHz
Polarization: Parallel
Note: Transmitting 15.247_BLE



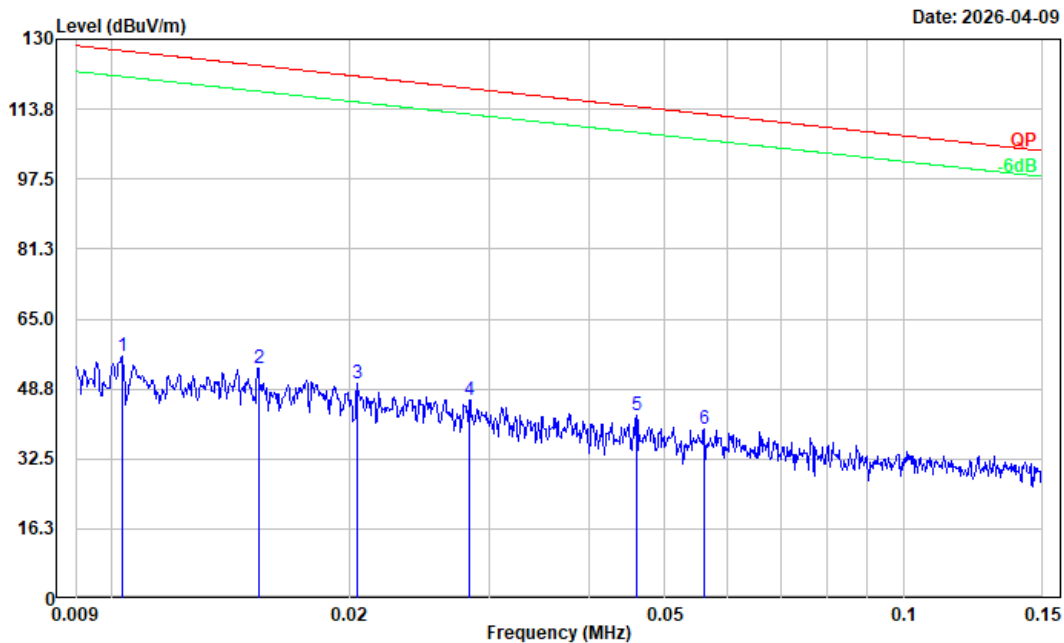
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.009	23.16	35.12	58.28	128.15	69.87	Peak
2	0.012	22.17	33.59	55.76	126.35	70.59	Peak
3	0.016	21.37	31.57	52.94	123.61	70.67	Peak
4	0.021	22.66	29.00	51.66	121.02	69.36	Peak
5	0.032	20.61	24.57	45.18	117.60	72.42	Peak
6	0.045	21.12	21.77	42.89	114.59	71.70	Peak

Project No.: 2603R48928E-RF
Tester: Jin He
Condition: RBW:9 kHz VBW:30 kHz
Polarization: Parallel
Note: Transmitting 15.247_BLE



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.156	37.31	11.71	49.02	103.71	54.69	Peak
2	0.274	39.47	6.23	45.70	98.84	53.14	Peak
3	0.579	39.58	0.00	39.58	72.32	32.74	Peak
4	0.763	39.34	-2.00	37.34	69.87	32.53	Peak
5	1.262	36.72	-5.27	31.45	65.41	33.96	Peak
6	13.768	38.30	-8.00	30.30	69.54	39.24	Peak

Project No.: 2603R48928E-RF
Tester: Jin He
Condition: RBW:0.2 kHz VBW:1 kHz
Polarization: Perpendicular
Note: Transmitting 15.247_BLE



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.010	22.74	33.56	56.30	127.35	71.05	Peak
2	0.015	22.64	30.98	53.62	123.90	70.28	Peak
3	0.020	21.68	28.37	50.05	121.41	71.36	Peak
4	0.028	21.82	24.31	46.13	118.57	72.44	Peak
5	0.046	22.26	20.24	42.50	114.35	71.85	Peak
6	0.056	20.95	18.60	39.55	112.64	73.09	Peak

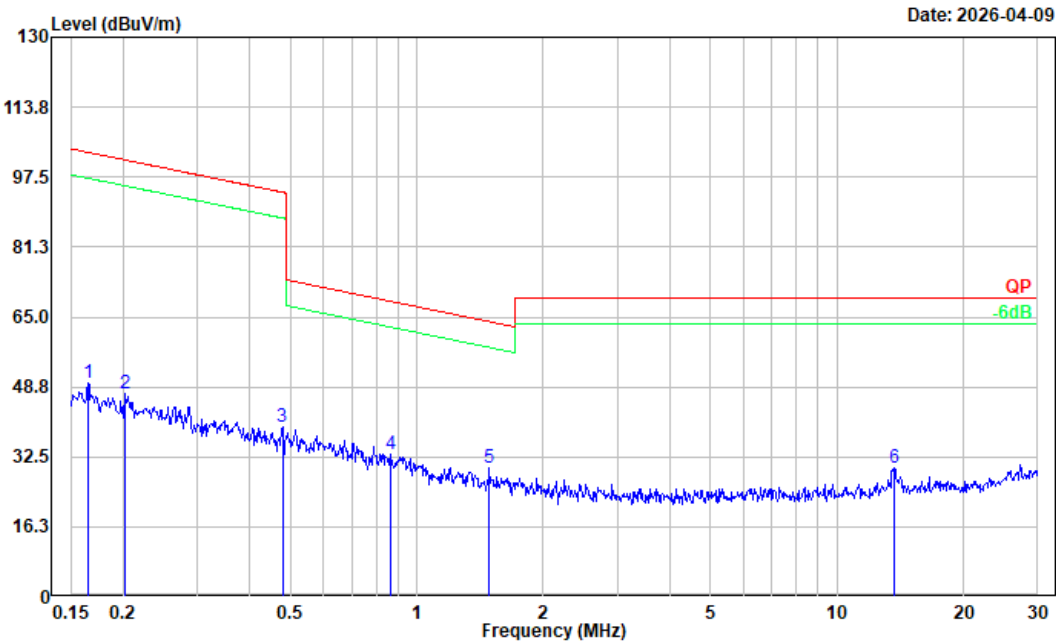
Project No.: 2603R48928E-RF

Tester: Jin He

Condition: RBW:9 kHz VBW:30 kHz

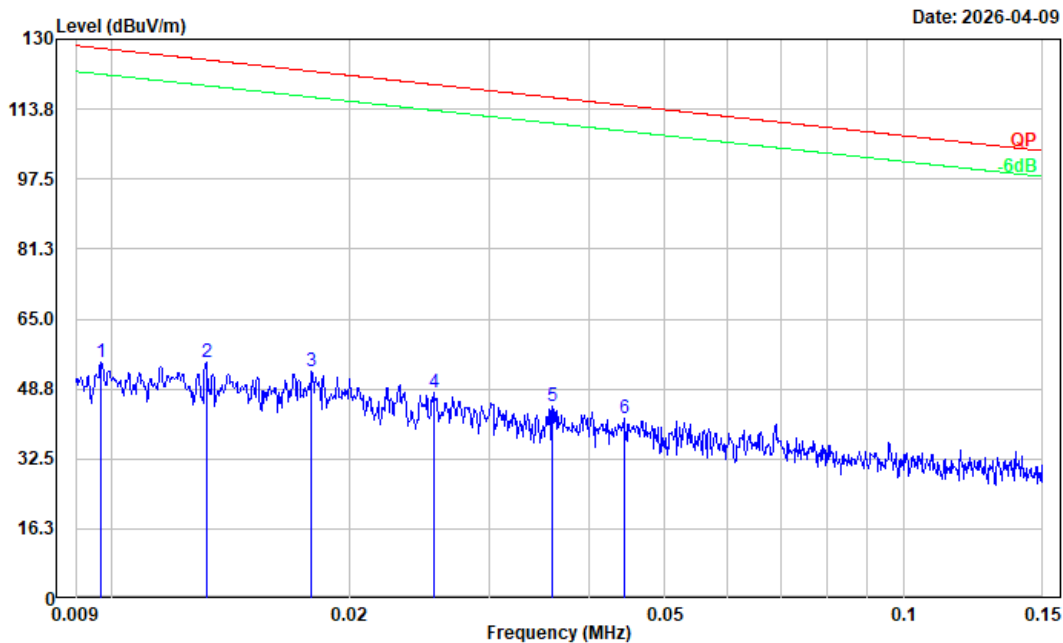
Polarization: Perpendicular

Note: Transmitting 15.247_BLE



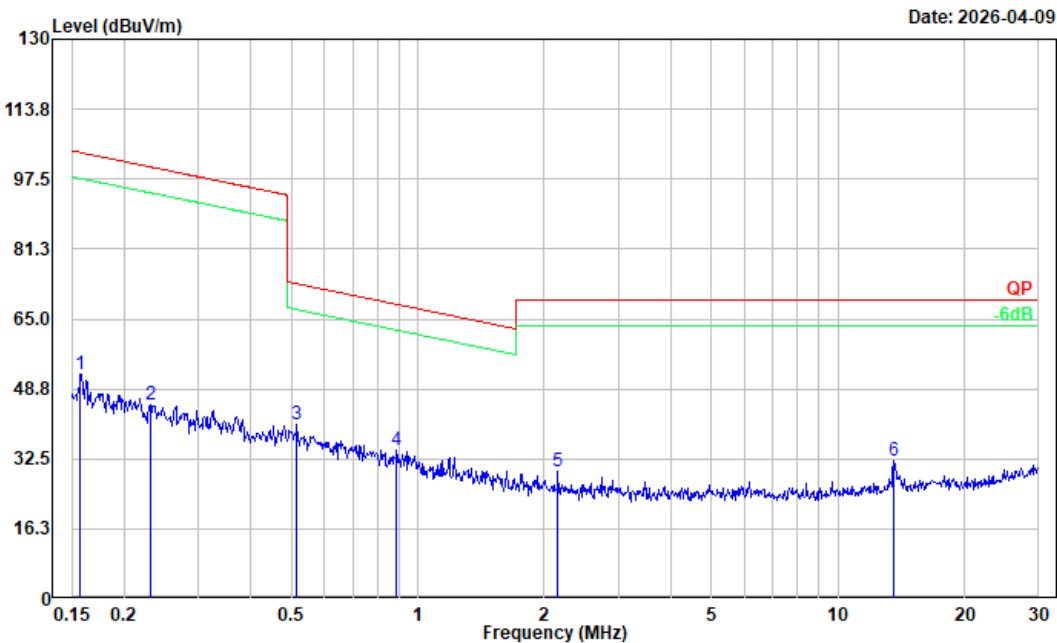
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.165	38.98	10.58	49.56	103.25	53.69	Peak
2	0.203	38.32	8.86	47.18	101.46	54.28	Peak
3	0.479	39.08	0.44	39.52	94.00	54.48	Peak
4	0.866	37.18	-4.16	33.02	68.74	35.72	Peak
5	1.487	36.99	-6.95	30.04	63.95	33.91	Peak
6	13.623	38.51	-8.55	29.96	69.54	39.58	Peak

Project No.: 2603R48928E-RF
Tester: Jin He
Condition: RBW:0.2 kHz VBW:1 kHz
Polarization: Ground-Parallel
Note: Transmitting 15.247_BLE



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.010	20.09	34.73	54.82	127.88	73.06	Peak
2	0.013	21.98	32.84	54.82	125.22	70.40	Peak
3	0.018	22.14	30.63	52.77	122.56	69.79	Peak
4	0.025	20.91	27.05	47.96	119.48	71.52	Peak
5	0.036	20.98	23.63	44.61	116.47	71.86	Peak
6	0.044	19.90	21.85	41.75	114.66	72.91	Peak

Project No.: 2603R48928E-RF
Tester: Jin He
Condition: RBW:9 kHz VBW:30 kHz
Polarization: Ground-Parallel
Note: Transmitting 15.247_BLE



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.157	40.43	11.67	52.10	103.67	51.57	Peak
2	0.230	36.65	8.28	44.93	100.35	55.42	Peak
3	0.516	39.72	0.69	40.41	73.35	32.94	Peak
4	0.890	37.70	-3.33	34.37	68.51	34.14	Peak
5	2.155	37.32	-7.65	29.67	69.54	39.87	Peak
6	13.551	40.06	-7.97	32.09	69.54	37.45	Peak

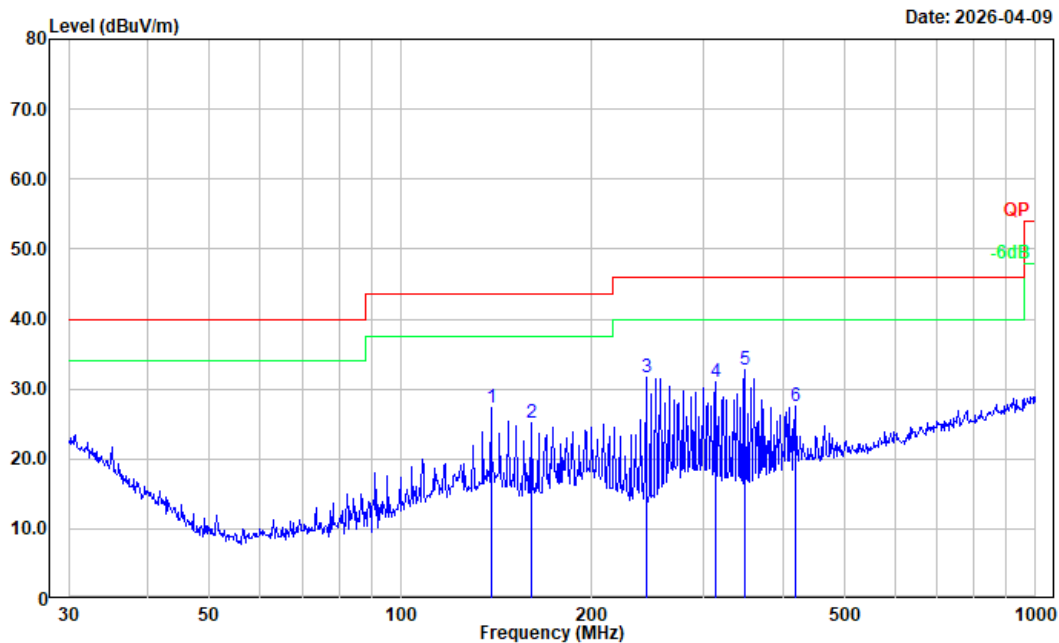
Project No.: 2603R48928E-RF

Tester: Jin He

Condition: RBW:120 kHz VBW:500 kHz

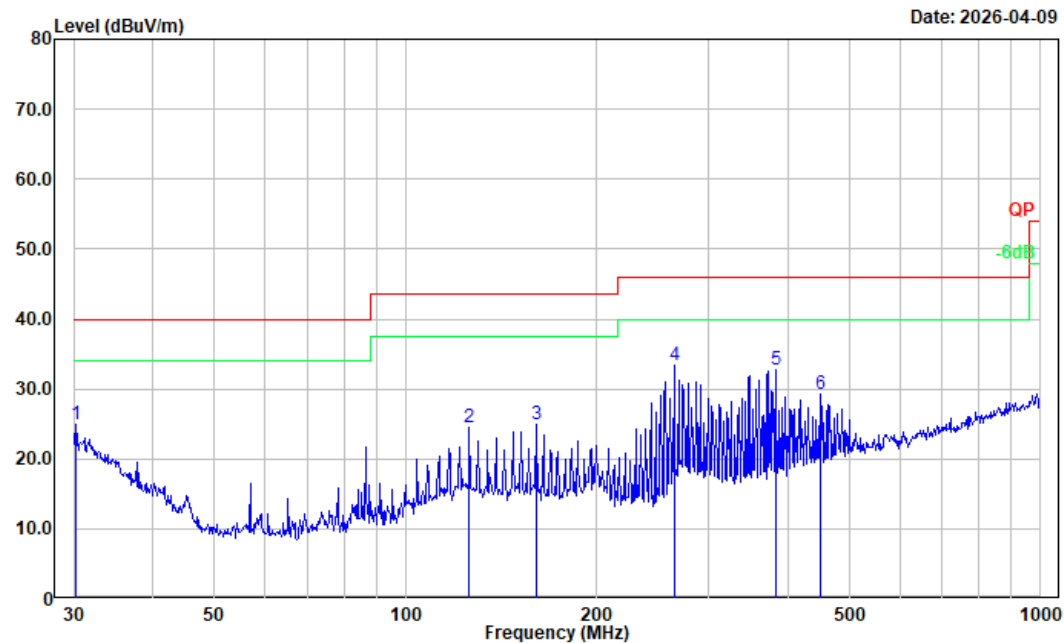
Polarization: horizontal

Note: Transmitting 15.247_BLE



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	138.874	39.06	-11.72	27.34	43.50	16.16	Peak
2	160.346	36.98	-11.84	25.14	43.50	18.36	Peak
3	243.377	44.44	-12.72	31.72	46.00	14.28	Peak
4	313.276	40.93	-9.99	30.94	46.00	15.06	Peak
5	348.027	42.11	-9.47	32.64	46.00	13.36	Peak
6	417.641	35.16	-7.56	27.60	46.00	18.40	Peak

Project No.: 2603R48928E-RF
Tester: Jin He
Condition: RBW:120 kHz VBW:500 kHz
Polarization: vertical
Note: Transmitting 15.247_BLE



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	30.317	28.79	-3.95	24.84	40.00	15.16	Peak
2	125.886	35.54	-11.01	24.53	43.50	18.97	Peak
3	160.346	36.68	-11.84	24.84	43.50	18.66	Peak
4	264.746	44.31	-11.02	33.29	46.00	12.71	Peak
5	382.588	41.24	-8.49	32.75	46.00	13.25	Peak
6	451.135	35.92	-6.73	29.19	46.00	16.81	Peak

4.1.2 1 GHz – 25 GHz

Sample Number	3IPJ-1	Test Date:	2026/4/11
Test Site:	966-2	Test Mode:	Transmitting
Tester:	Peter Rong	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.4	Relative Humidity: (%)	70	ATM Pressure: (kPa)	100.2
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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	2026/2/27	2027/2/26
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2025/11/10	2026/11/9
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2025/11/10	2026/11/9
A.H	Pre-amplifier	PAM-0118P	628	2025/11/10	2026/11/9
Audix	Test Software	E3	191218 (V9)	N/A	N/A
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2024/2/4	2027/2/3
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2025/11/10	2026/11/9
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2025/11/10	2026/11/9
Decentest	Multiplex Switch Test Control Set	DT7220SCU	DQ77925	2025/8/4	2026/8/3
Decentest	Filter Switch Unit	DT7220FSU	DQ77928	2025/8/4	2026/8/3

* 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:

Please refer to the below tables and plots.

BLE 1Mbps:

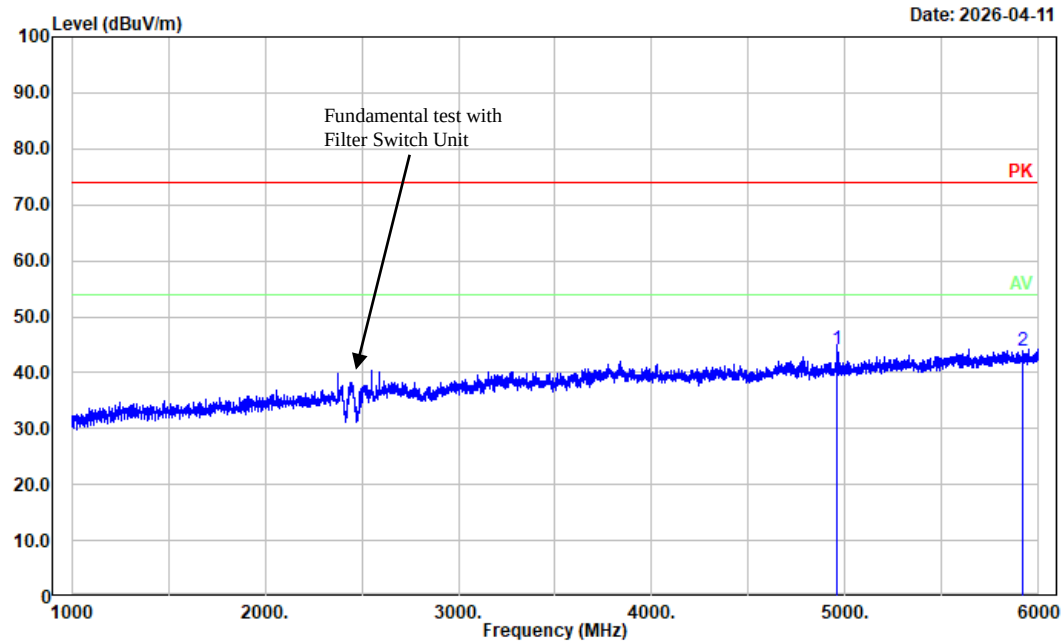
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel:				2402	MHz		
4804.000	38.45	PK	H	4.64	43.09	74.00	30.91
4804.000	37.62	PK	V	4.64	42.26	74.00	31.74
7206.000	36.26	PK	H	9.84	46.10	74.00	27.90
7206.000	25.11	AV	H	9.84	34.95	54.00	19.05
7206.000	36.32	PK	V	9.84	46.16	74.00	27.84
7206.000	24.11	AV	V	9.84	33.95	54.00	20.05
Middle Channel:				2440	MHz		
4880.000	38.94	PK	H	4.88	43.82	74.00	30.18
4880.000	39.65	PK	V	4.88	44.53	74.00	29.47
7320.000	36.53	PK	H	10.58	47.11	74.00	26.89
7320.000	24.53	AV	H	10.58	35.11	54.00	18.89
7320.000	36.59	PK	V	10.58	47.17	74.00	26.83
7320.000	24.15	AV	V	10.58	34.73	54.00	19.27
High Channel:				2480	MHz		
4960.000	39.24	PK	H	4.87	44.11	74.00	29.89
4960.000	40.07	PK	V	4.87	44.94	74.00	29.06
7440.000	36.19	PK	H	10.60	46.79	74.00	27.21
7440.000	24.88	AV	H	10.60	35.48	54.00	18.52
7440.000	36.36	PK	V	10.60	46.96	74.00	27.04
7440.000	25.03	AV	V	10.60	35.63	54.00	18.37

BLE 2Mbps:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel:				2402	MHz		
4804.000	39.54	PK	H	4.64	44.18	74.00	29.82
4804.000	38.63	PK	V	4.64	43.27	74.00	30.73
7206.000	36.74	PK	H	9.84	46.58	74.00	27.42
7206.000	24.53	AV	H	9.84	34.37	54.00	19.63
7206.000	36.63	PK	V	9.84	46.47	74.00	27.53
7206.000	25.01	AV	V	9.84	34.85	54.00	19.15
Middle Channel:				2440	MHz		
4880.000	38.59	PK	H	4.88	43.47	74.00	30.53
4880.000	39.64	PK	V	4.88	44.52	74.00	29.48
7320.000	36.64	PK	H	10.58	47.22	74.00	26.78
7320.000	24.79	AV	H	10.58	35.37	54.00	18.63
7320.000	36.30	PK	V	10.58	46.88	74.00	27.12
7320.000	25.11	AV	V	10.58	35.69	54.00	18.31
High Channel:				2480	MHz		
4960.000	39.31	PK	H	4.87	44.18	74.00	29.82
4960.000	39.70	PK	V	4.87	44.57	74.00	29.43
7440.000	35.49	PK	H	10.60	46.09	74.00	27.91
7440.000	25.51	AV	H	10.60	36.11	54.00	17.89
7440.000	36.55	PK	V	10.60	47.15	74.00	26.85
7440.000	25.60	AV	V	10.60	36.20	54.00	17.80

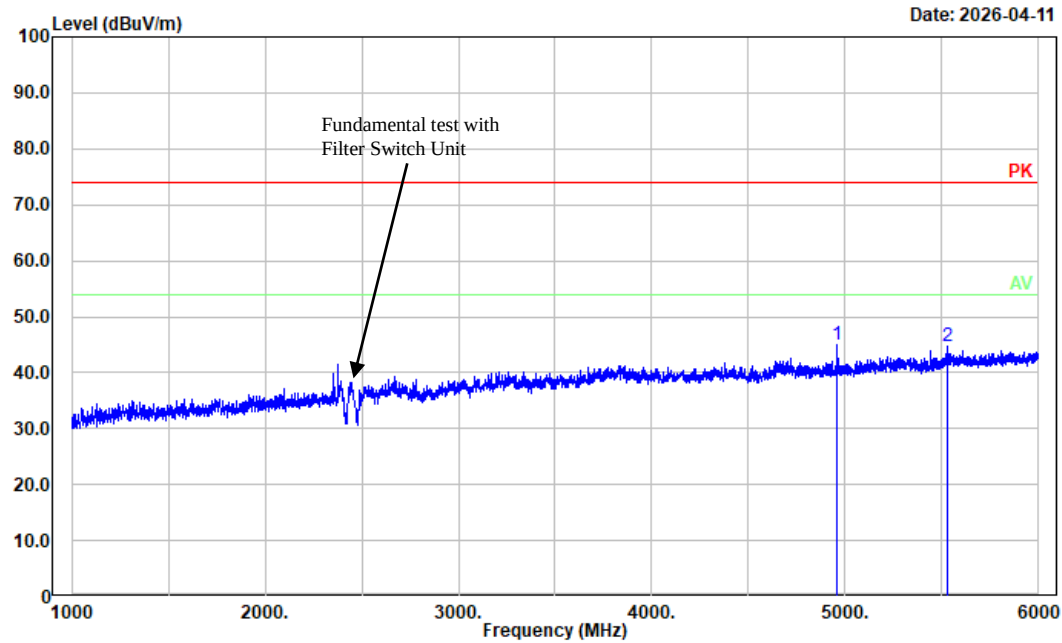
Worst radiation spurious emissions margin test plots for each mode

Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: horizontal
Note: BLE 1Mbps High Channel 2480MHz



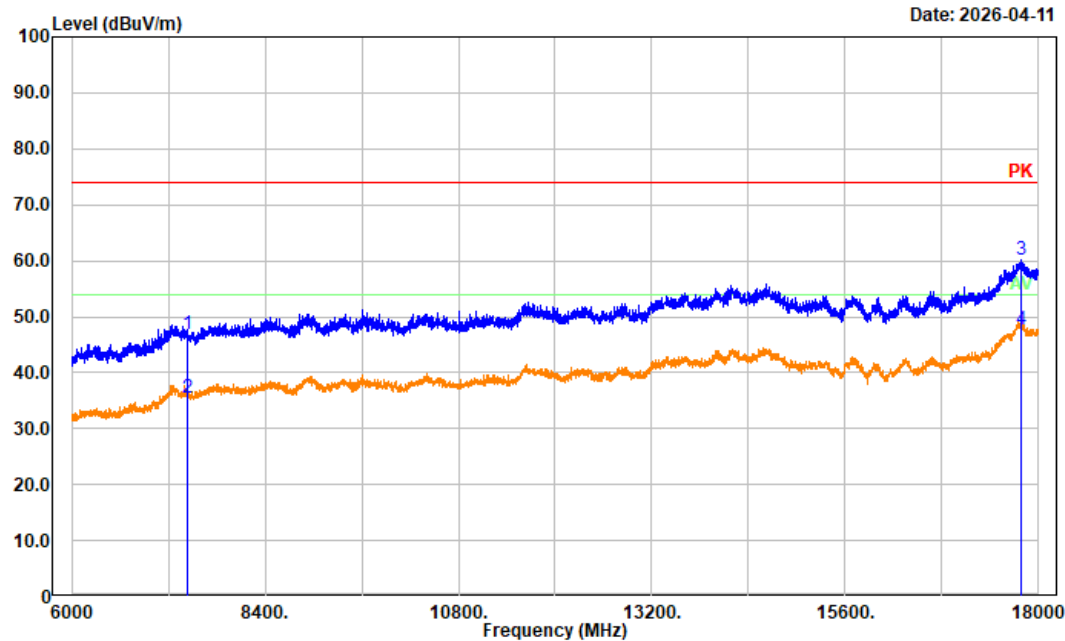
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	4960.000	39.24	4.87	44.11	74.00	29.89	Peak
2	5920.000	36.84	7.17	44.01	74.00	29.99	Peak

Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: vertical
Note: BLE 1Mbps High Channel 2480MHz



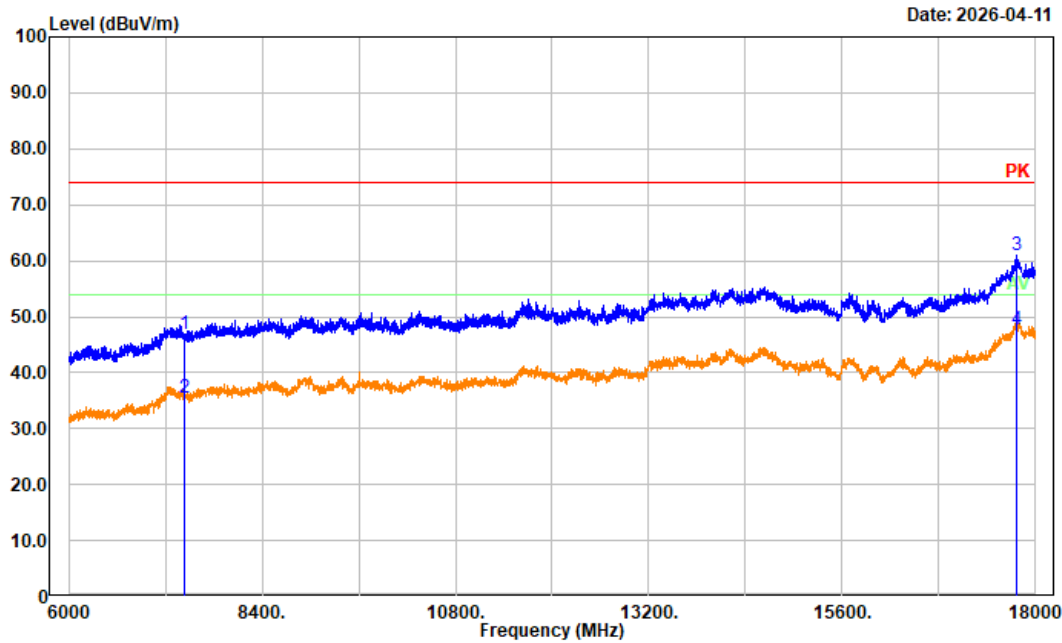
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	4960.000	40.07	4.87	44.94	74.00	29.06	Peak
2	5528.000	37.68	6.91	44.59	74.00	29.41	Peak

Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: horizontal
Note: BLE 1Mbps High Channel 2480MHz



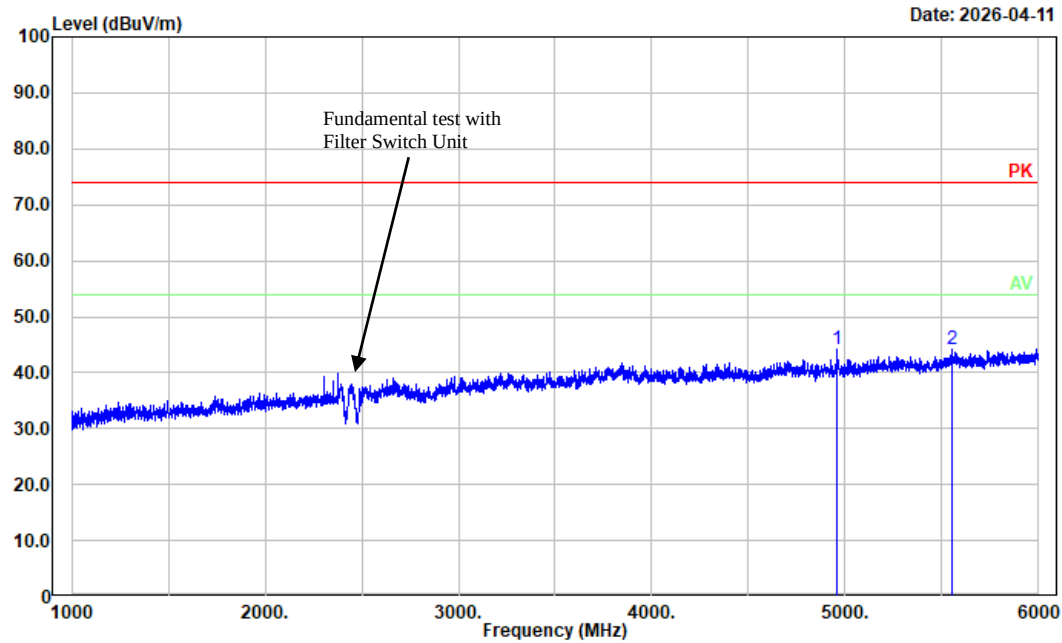
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7440.000	36.19	10.60	46.79	74.00	27.21	Peak
2	7440.000	24.88	10.60	35.48	54.00	18.52	Average
3	17781.600	38.99	21.28	60.27	74.00	13.73	Peak
4	17781.600	26.34	21.28	47.62	54.00	6.38	Average

Project No: 2603R48928E-RF
 Tester: Peter Rong
 Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
 Polarization: vertical
 Note: BLE 1Mbps High Channel 2480MHz



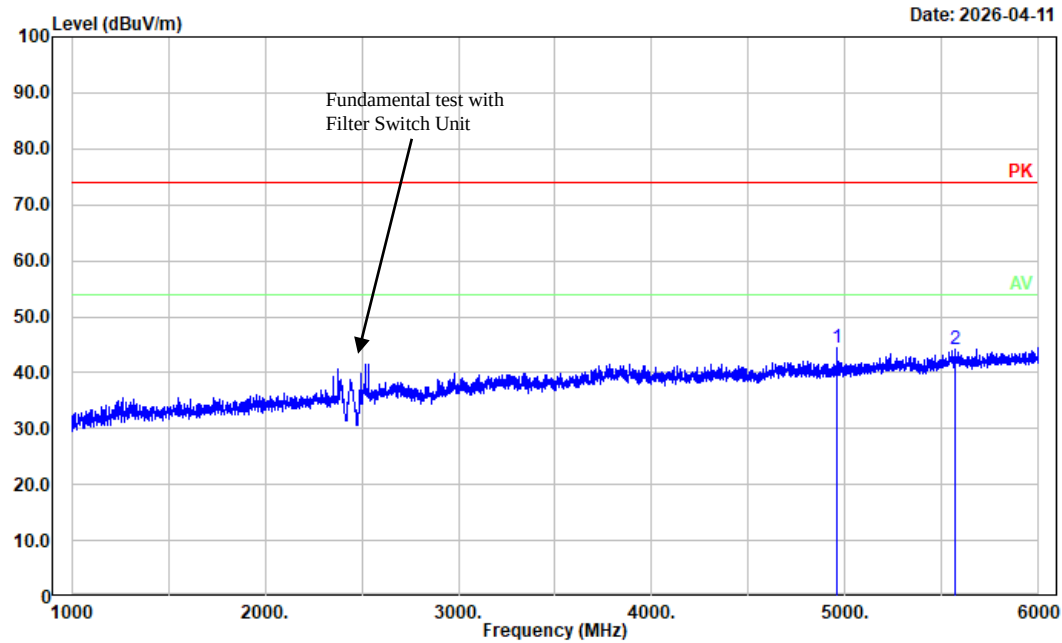
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7440.000	36.36	10.60	46.96	74.00	27.04	Peak
2	7440.000	25.03	10.60	35.63	54.00	18.37	Average
3	17764.800	39.79	21.23	61.02	74.00	12.98	Peak
4	17764.800	26.60	21.23	47.83	54.00	6.17	Average

Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: horizontal
Note: BLE 2Mbps High Channel 2480MHz



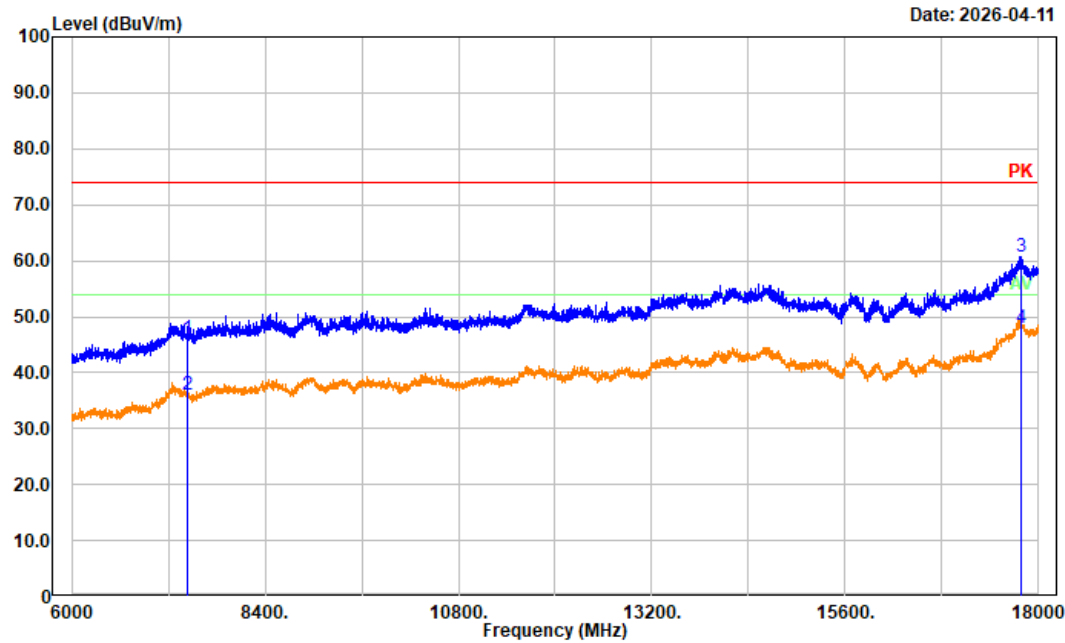
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	4960.000	39.31	4.87	44.18	74.00	29.82	Peak
2	5552.000	37.00	7.05	44.05	74.00	29.95	Peak

Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: vertical
Note: BLE 2Mbps High Channel 2480MHz



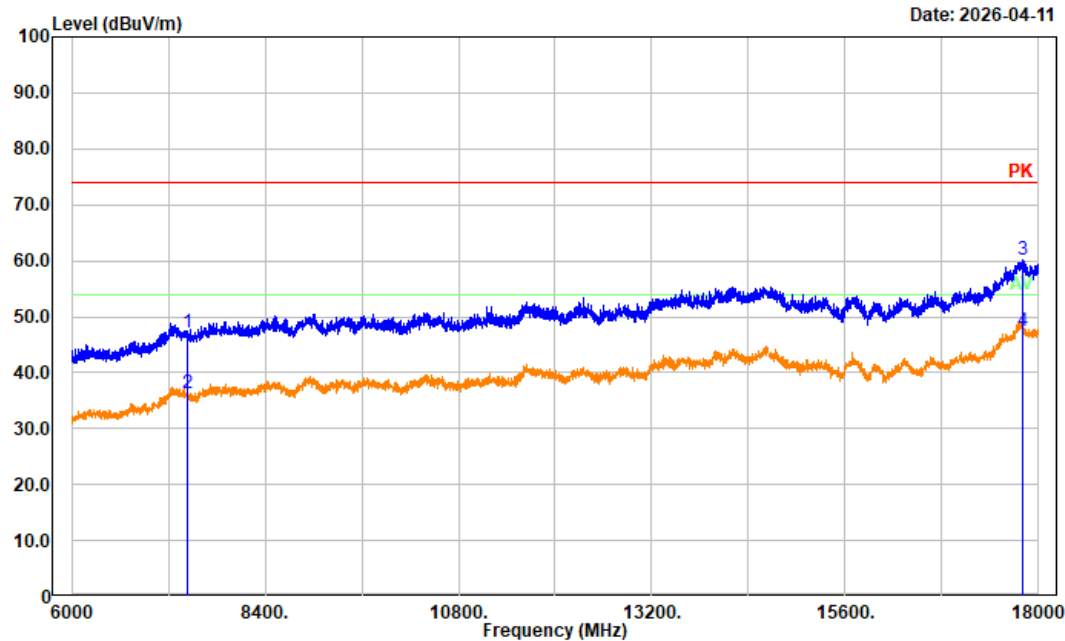
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	4960.000	39.70	4.87	44.57	74.00	29.43	Peak
2	5570.000	37.26	6.96	44.22	74.00	29.78	Peak

Project No: 2603R48928E-RF
 Tester: Peter Rong
 Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
 Polarization: horizontal
 Note: BLE 2Mbps High Channel 2480MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7440.000	35.49	10.60	46.09	74.00	27.91	Peak
2	7440.000	25.51	10.60	36.11	54.00	17.89	Average
3	17791.200	39.39	21.32	60.71	74.00	13.29	Peak
4	17791.200	26.52	21.32	47.84	54.00	6.16	Average

Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: vertical
Note: BLE 2Mbps High Channel 2480MHz

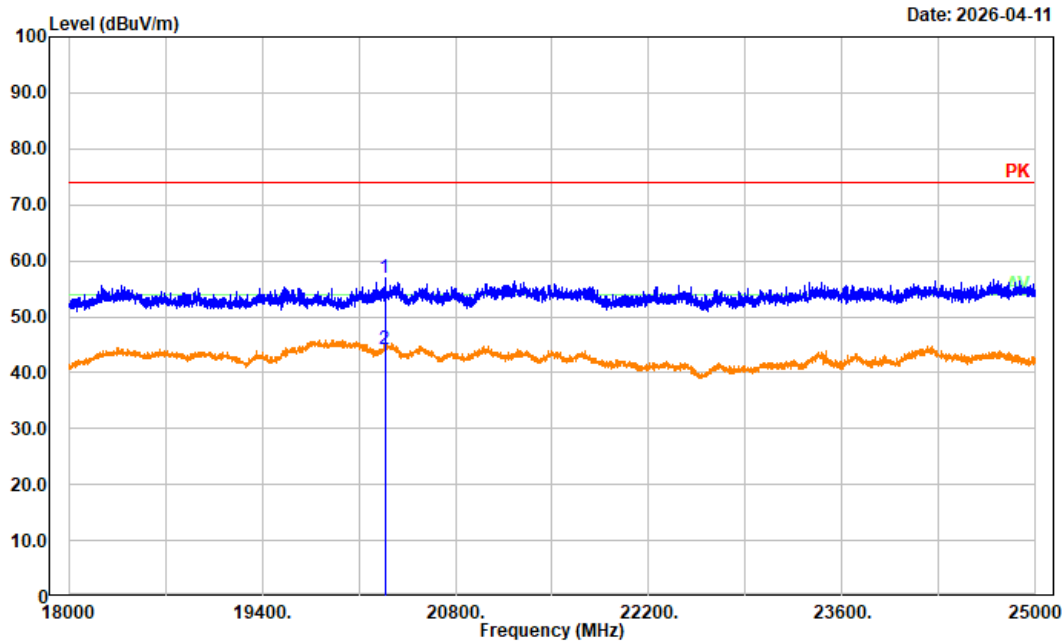


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7440.000	36.55	10.60	47.15	74.00	26.85	Peak
2	7440.000	25.60	10.60	36.20	54.00	17.80	Average
3	17803.200	38.77	21.36	60.13	74.00	13.87	Peak
4	17803.200	26.10	21.36	47.46	54.00	6.54	Average

Test Plots for 18GHz ~ 25GHz:

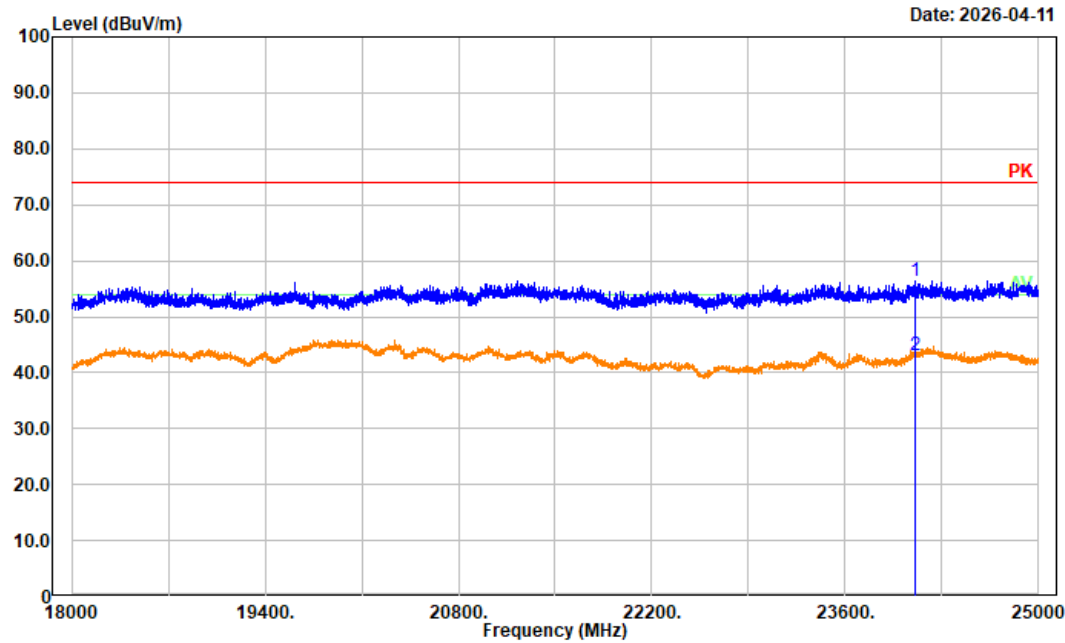
Note: for 18 – 25 GHz range, test was performed on the maximum power mode.

Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: Horizontal
Note: BLE 2Mbps High Channel 2480MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	20289.000	52.14	4.83	56.97	74.00	17.03	Peak
2	20289.000	39.43	4.83	44.26	54.00	9.74	Average

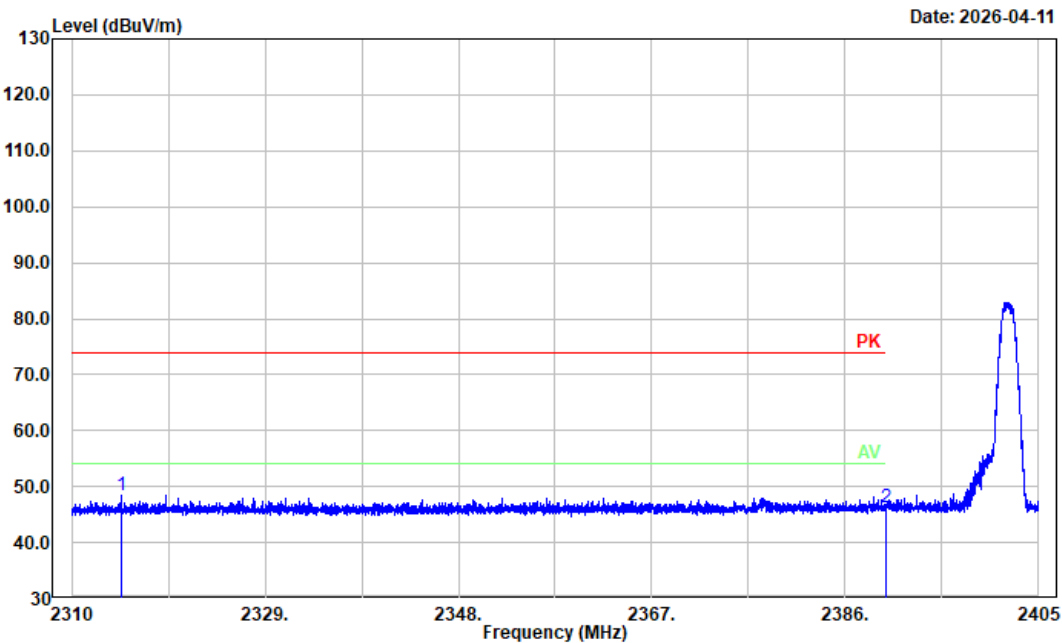
Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: Vertical
Note: BLE 2Mbps High Channel 2480MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	24108.200	49.17	7.29	56.46	74.00	17.54	Peak
2	24108.200	35.72	7.29	43.01	54.00	10.99	Average

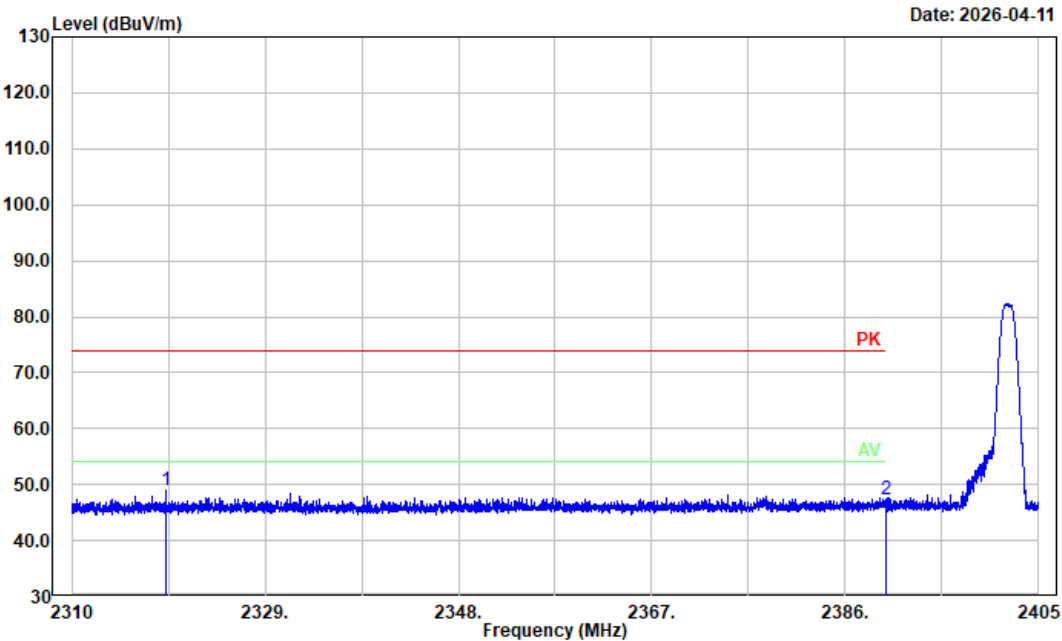
Band Edge Test Plots

Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Horizontal
Note: BLE 1Mbps Low Channel 2402MHz



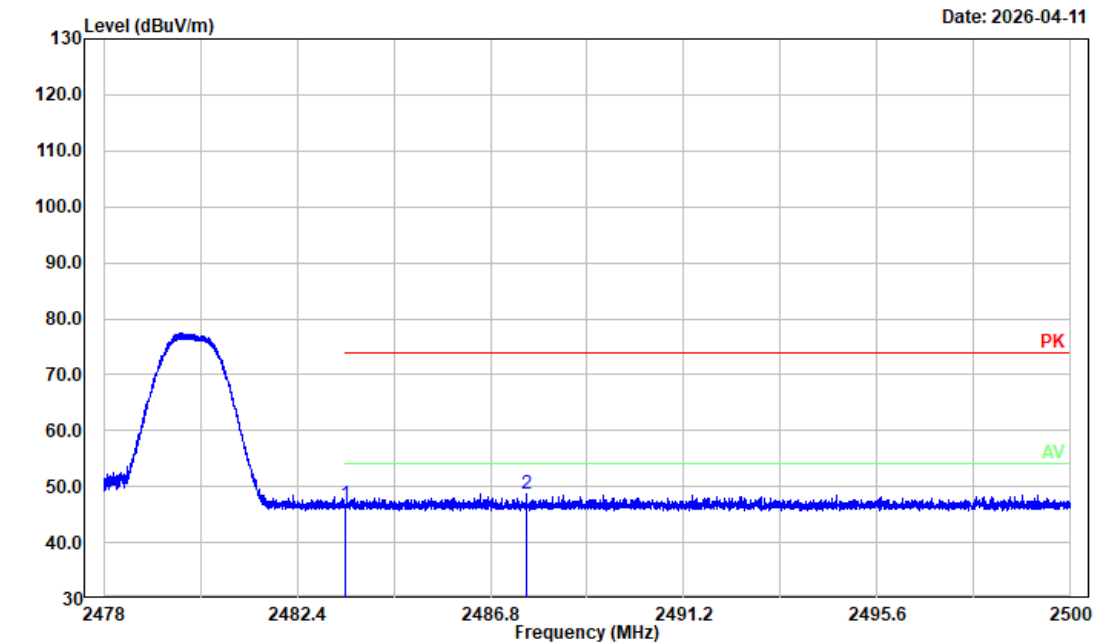
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2314.826	50.99	-2.48	48.51	74.00	25.49	Peak
2	2390.000	48.40	-2.13	46.27	74.00	27.73	Peak

Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: vertical
Note: BLE 1Mbps Low Channel 2402MHz



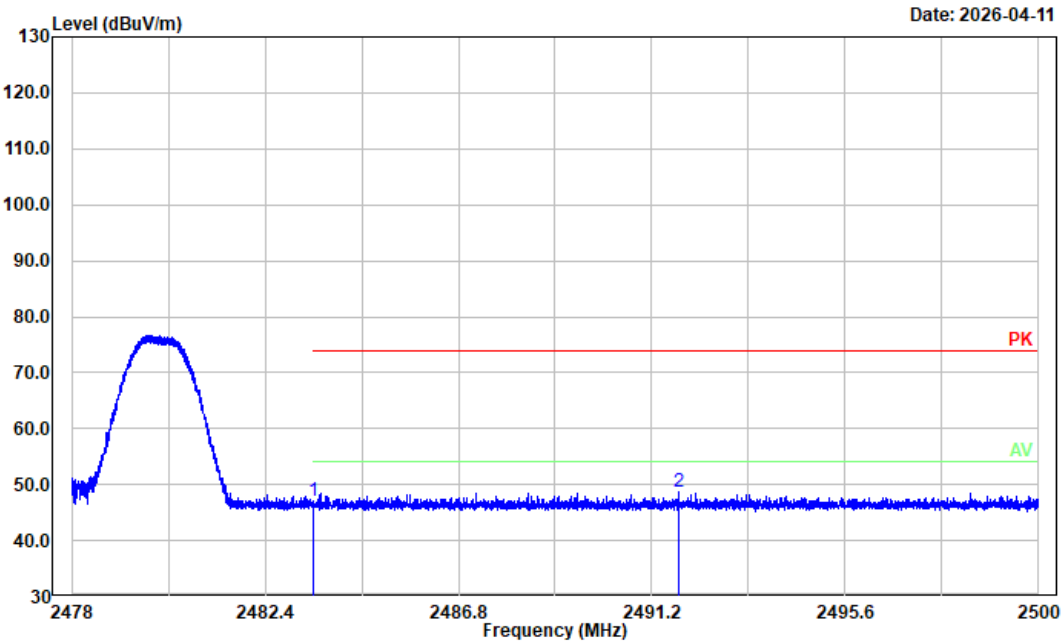
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2319.310	51.41	-2.46	48.95	74.00	25.05	Peak
2	2390.000	49.48	-2.13	47.35	74.00	26.65	Peak

Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Horizontal
Note: BLE 1Mbps High Channel 2480MHz



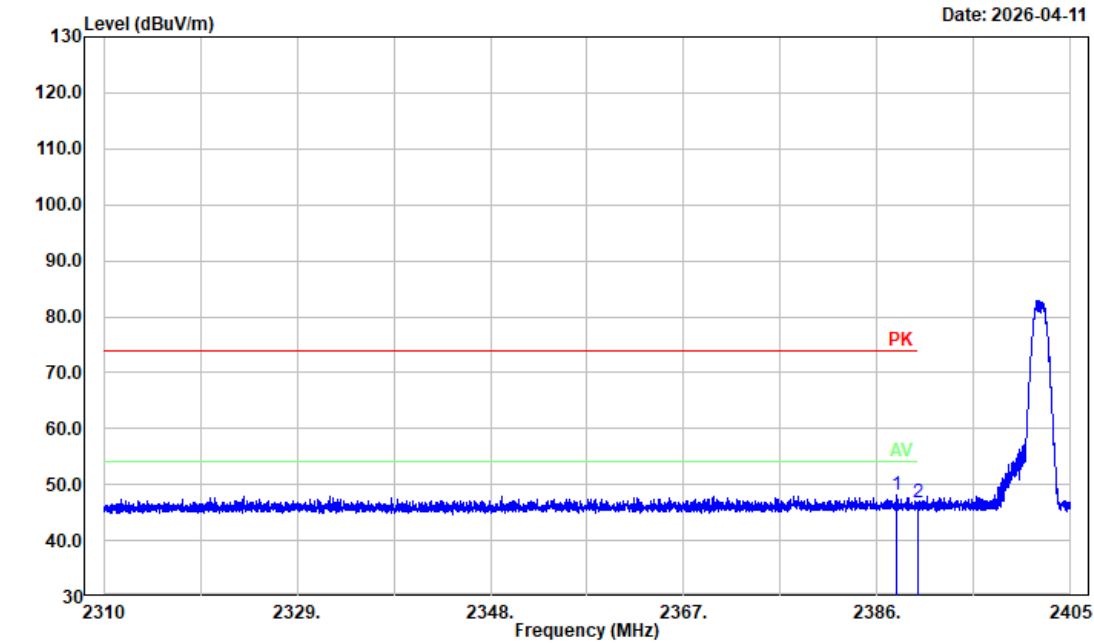
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	48.94	-2.17	46.77	74.00	27.23	Peak
2	2487.610	50.85	-2.14	48.71	74.00	25.29	Peak

Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Vertical
Note: BLE 1Mbps High Channel 2480MHz



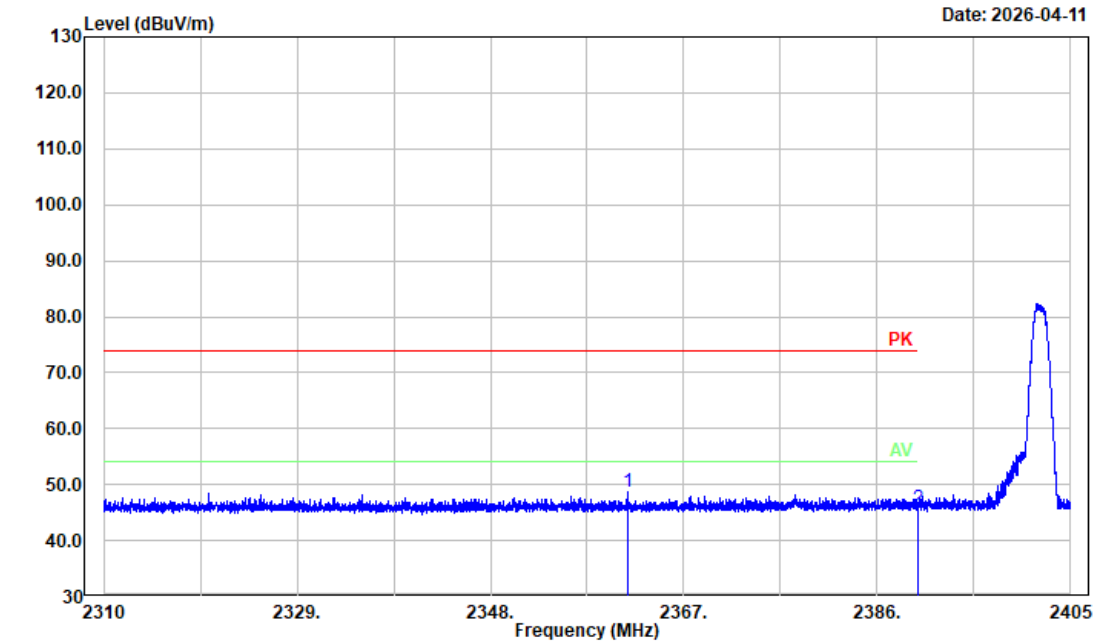
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	49.25	-2.17	47.08	74.00	26.92	Peak
2	2491.798	50.77	-2.14	48.63	74.00	25.37	Peak

Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Horizontal
Note: BLE 2Mbps Low Channel 2402MHz



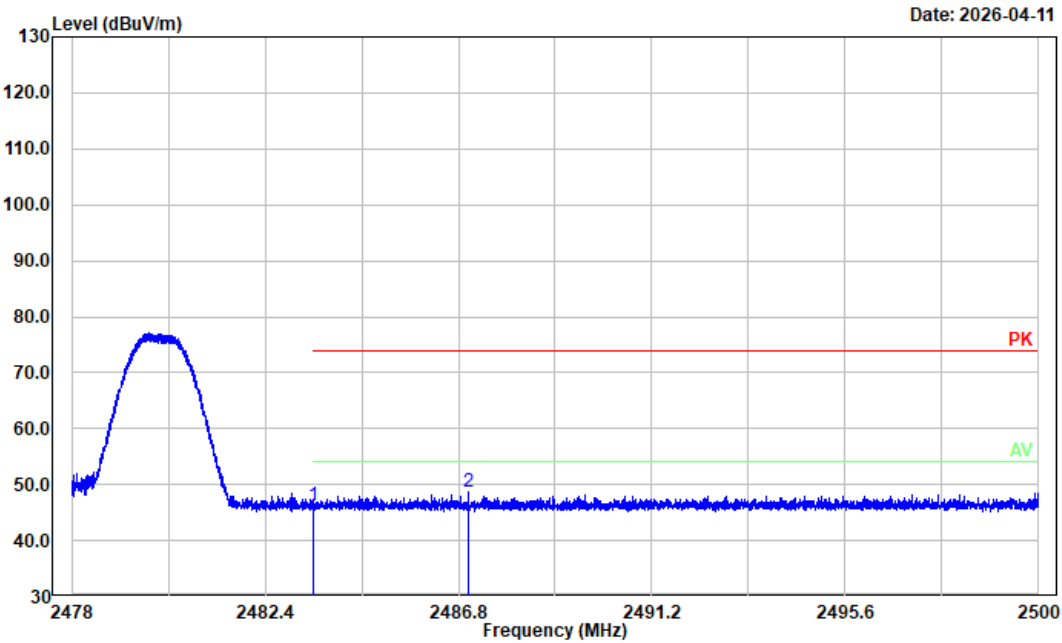
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2387.919	50.19	-2.14	48.05	74.00	25.95	Peak
2	2390.000	48.91	-2.13	46.78	74.00	27.22	Peak

Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Vertical
Note: BLE 2Mbps Low Channel 2402MHz



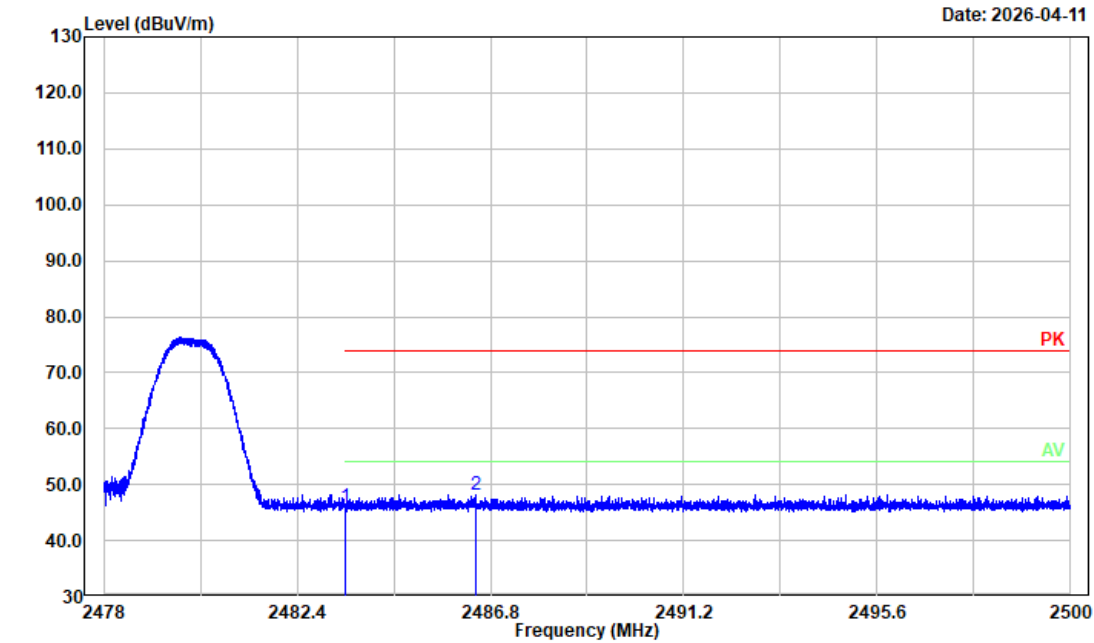
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2361.433	51.10	-2.28	48.82	74.00	25.18	Peak
2	2390.000	47.75	-2.13	45.62	74.00	28.38	Peak

Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Horizontal
Note: BLE 2Mbps High Channel 2480MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	48.39	-2.17	46.22	74.00	27.78	Peak
2	2487.033	50.74	-2.15	48.59	74.00	25.41	Peak

Project No: 2603R48928E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Vertical
Note: BLE 2Mbps High Channel 2480MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	48.10	-2.17	45.93	74.00	28.07	Peak
2	2486.466	50.41	-2.15	48.26	74.00	25.74	Peak

4.2 RF Conducted Data

Please refer to Annex "Appendix A" for detail test data.

5. EUT PHOTOGRAPHS

Please refer to the attachment 2603R48928E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2603R48928E-RF-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2603R48928E-RF-00A-TSP TEST SETUP PHOTOGRAPHS.

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