



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



TEST REPORT

Applicant: TECNO MOBILE LIMITED

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

FCC ID: 2ADYY-CL9

Product Name: Mobile Phone

Standard(s): 47 CFR Part 15, Subpart C(15.247)
ANSI C63.10-2013
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: CR231165634-00A

Date Of Issue: 2023/12/25

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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 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.

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

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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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231165634-00A	Original Report	2023/12/25

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Mobile Phone
Trade Name:	Tecno
EUT Model:	CL9
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	2.45dBm
Modulation Type:	GFSK
Rated Input Voltage:	DC 3.91V from battery or DC 5.0-20.0V from adapter
Serial Number:	AC line conducted emissions and Radiated Spurious Emissions:2BD2-5 RF Conducted:2BD2-1
EUT Received Date:	2023/11/8
EUT Received Status:	Good

Operation Frequency Detail: For BLE 1Mbps:

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)
1	2404	19	2440
2	2406	...	...
...	...	...	...
...	...	...	...
..	...	37	2476
18	2439	38	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

Antenna Information Detail▲:

Antenna	Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
Antenna 8	Shangyuan Technology (China) Co.,Ltd.	LDS	50	2.4~2.5GHz	-8.6 dBi

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.

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
Adapter	Unknown	U700TSA	Input: 100-240Vac 50/60Hz 2.0A Output: 5.0Vdc 3.0A 15.0W or 5.0-10.0Vdc 7.0A MAX or 11.0Vdc 6.4A MAX or 4.0-20.0Vdc 3.5A 70.0W MAX

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

For BLE:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.		
Equipment Modifications:	No		
EUT Exercise Software:	Engineering Mode		
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
1Mbps	6	6	6
2Mbps	6	6	6

1.2.2 Support Equipment List and Details

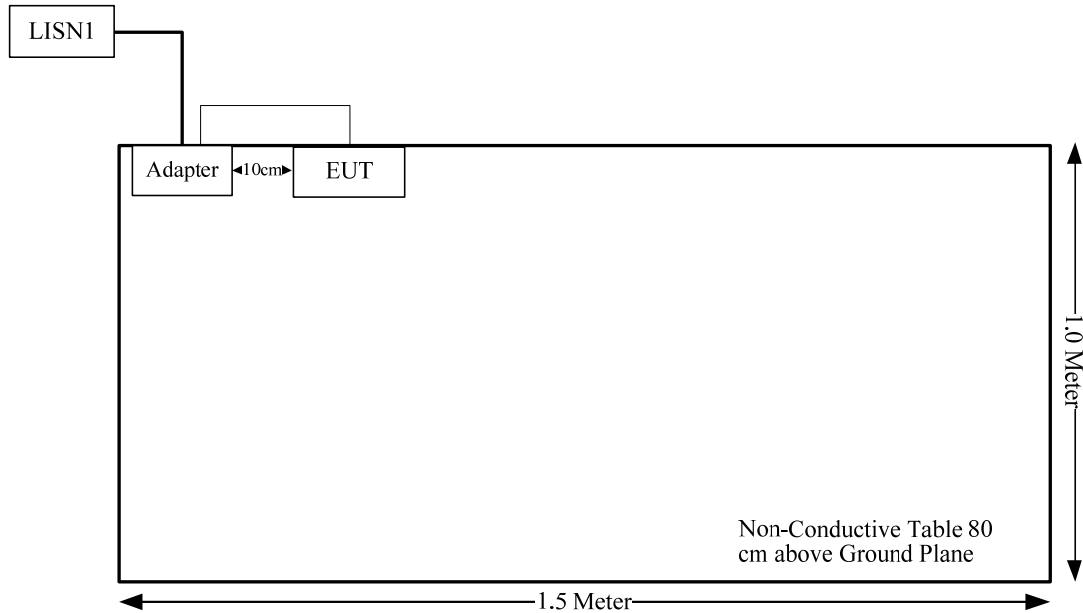
Manufacturer	Description	Model	Serial Number
/	/	/	/

1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	0.8	Adapter	EUT

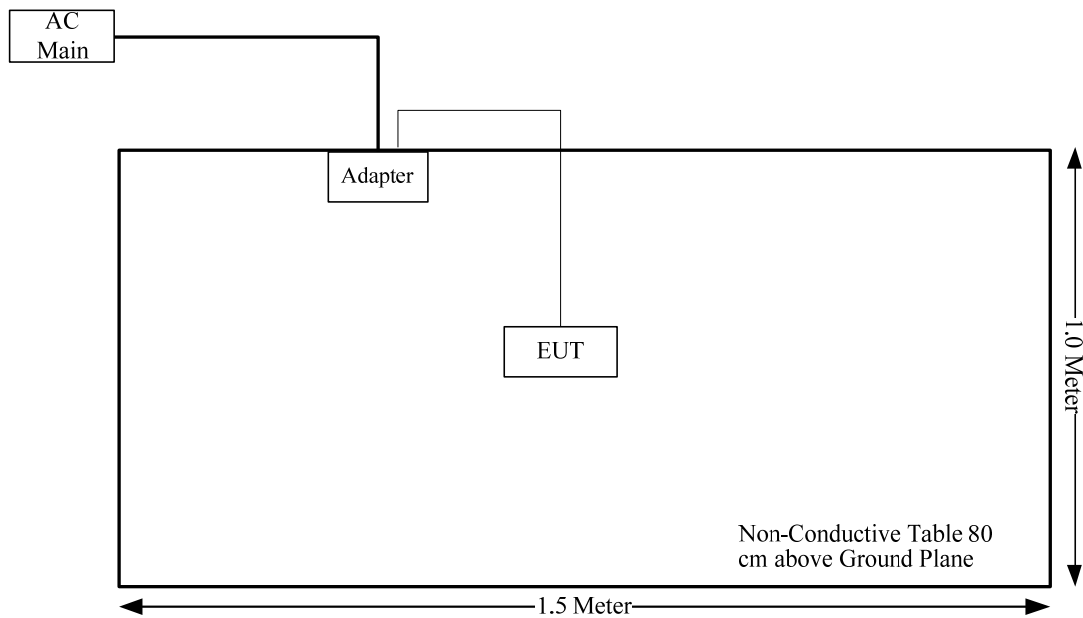
1.2.4 Block Diagram of Test Setup

AC line conducted emissions:

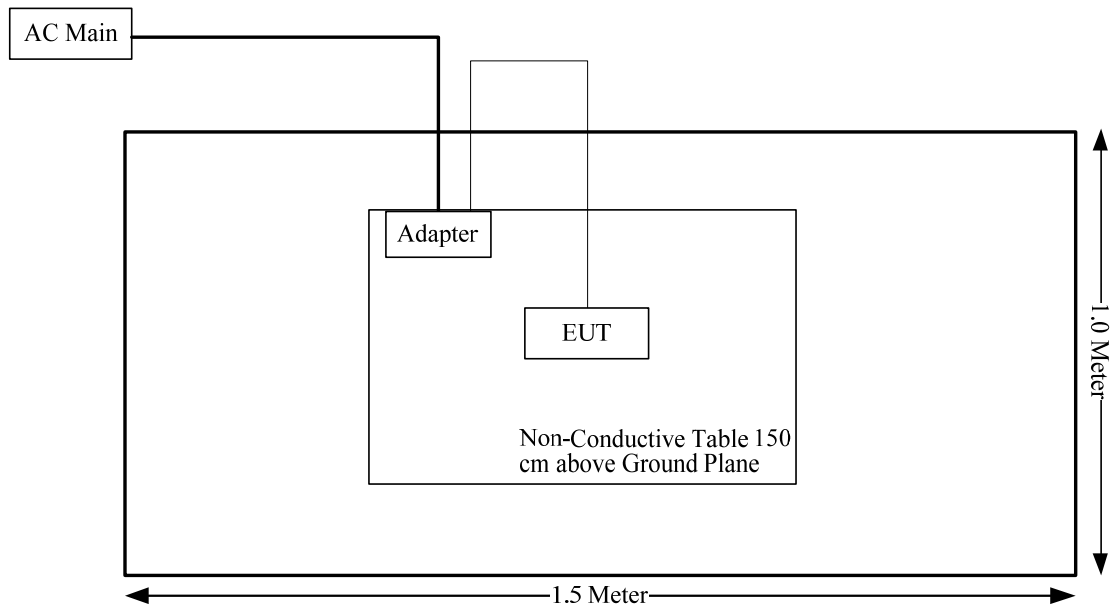


Radiated Spurious Emissions:

Below 1G:



Above 1G:



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	$\pm 5\%$
RF output power, conducted	$\pm 0.61\text{dB}$
Power Spectral Density, conducted	$\pm 0.61\text{ dB}$
Unwanted Emissions, radiated	9kHz~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	$\pm 1.26\text{ dB}$
Temperature	$\pm 1^\circ\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
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
§15.207(a)	AC line conducted emissions	Compliant
§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)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.203	Antenna Requirement	Compliant
§15.247 (i) & §1.1310	RF Exposure Evaluation	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 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 C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

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

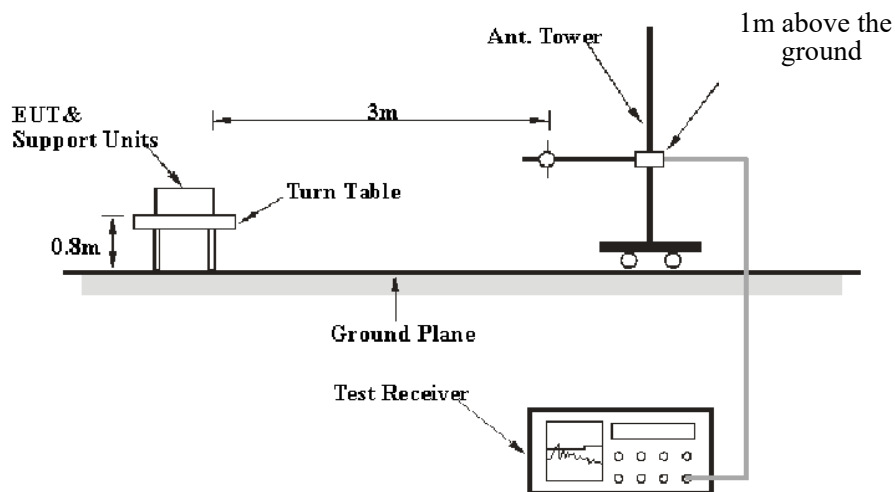
3.2.1 Applicable Standard

FCC §15.247 (d);

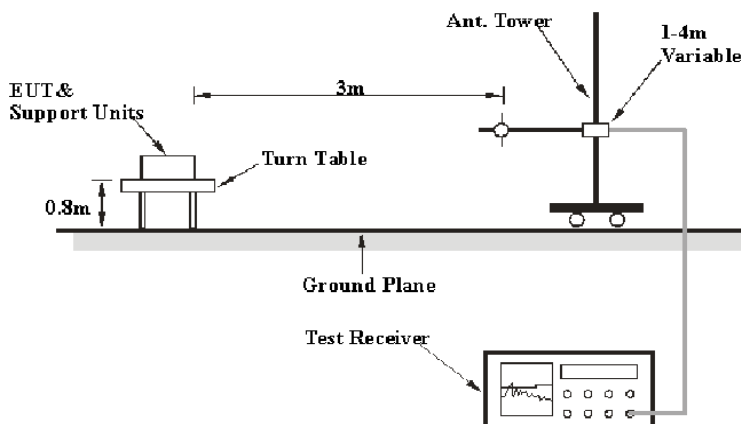
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

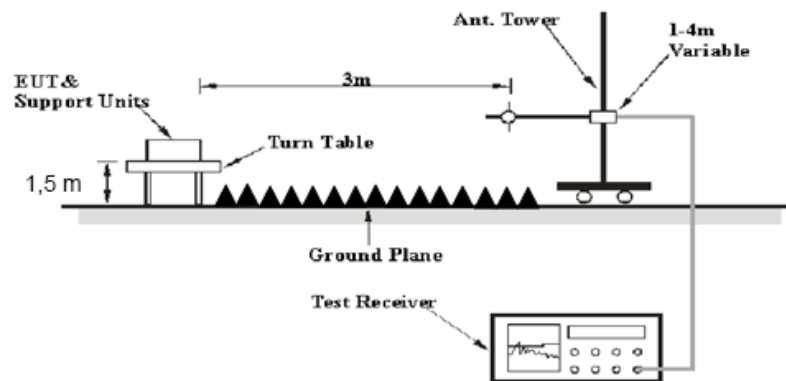
3.2.2 EUT Setup

9kHz~30MHz:



30MHz~1GHz:



Above 1GHz:

The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. 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 9kHz to 25 GHz.

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

9kHz-1000MHz:

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

1GHz- 25GHz:

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

Note: T is minimum transmission duration

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

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.

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

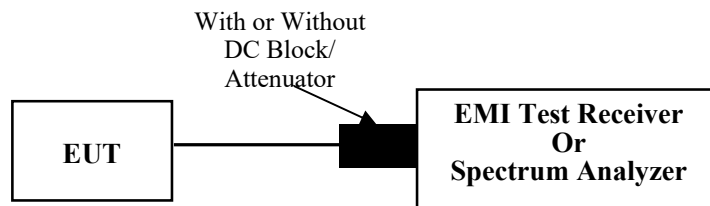
3.3 Minimum 6 dB Bandwidth

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



3.3.3 Test Procedure

According to ANSI C63.10-2013 Section 11.8

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

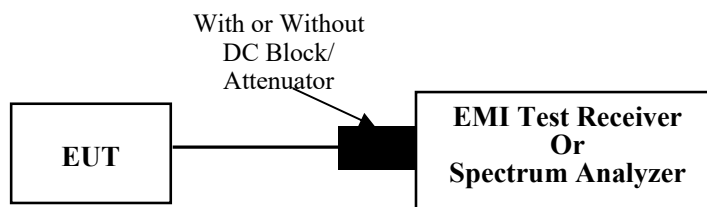
3.4 Maximum Conducted Output Power

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



3.4.3 Test Procedure

According to ANSI C63.10-2013 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 = auto couple.
- 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.

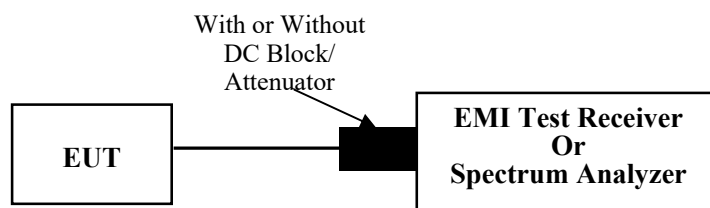
3.5 Maximum power spectral density

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



3.5.3 Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

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

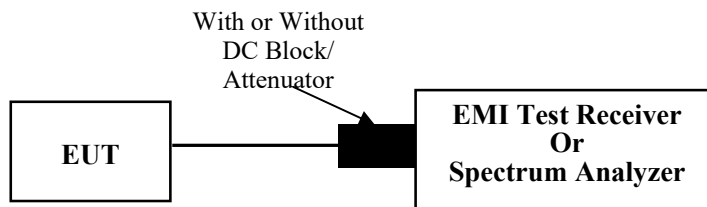
3.6 100 kHz Bandwidth of Frequency Band Edge

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



3.6.3 Test Procedure

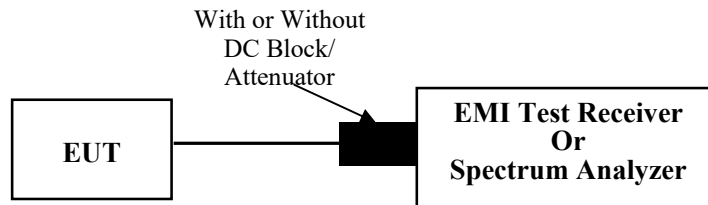
According to ANSI C63.10-2013 Section 11.11

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- 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



3.7.2 Test Procedure

According to ANSI C63.10-2013 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 AC Line Conducted Emissions

Serial Number:	2BD2-5	Test Date:	2023/12/12
Test Site:	CE	Test Mode:	Transmitting (maximum output power mode (BLE1Mbps Middle channel) was tested)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	27.5	Relative Humidity: (%)	59	ATM Pressure: (kPa)	100.8
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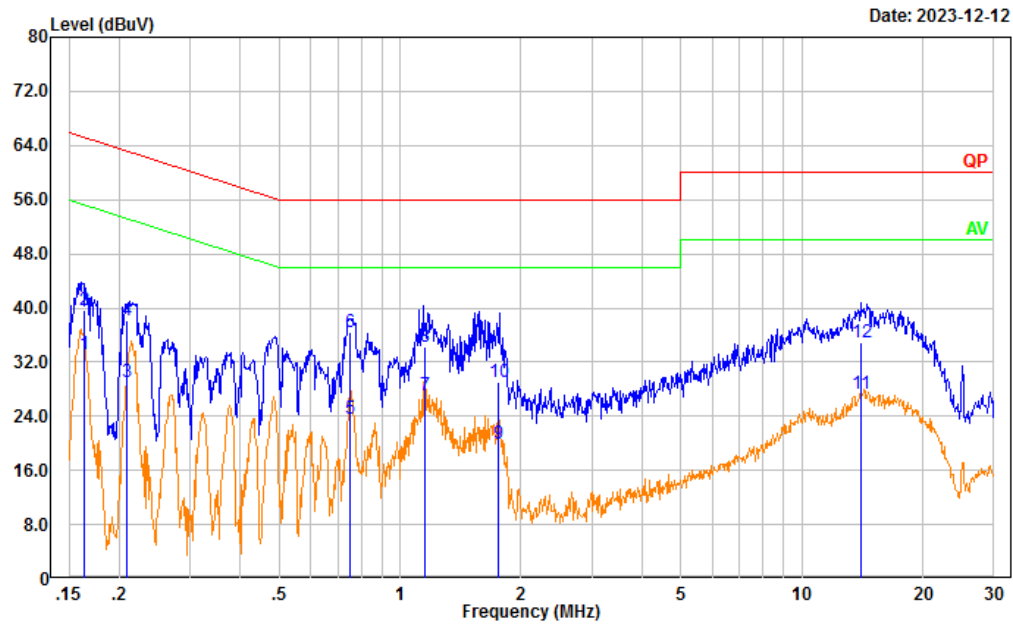
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2023/3/31	2024/3/30
R&S	EMI Test Receiver	ESR3	102726	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2023/8/6	2024/8/5
Audix	Test Software	E3	190306 (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).

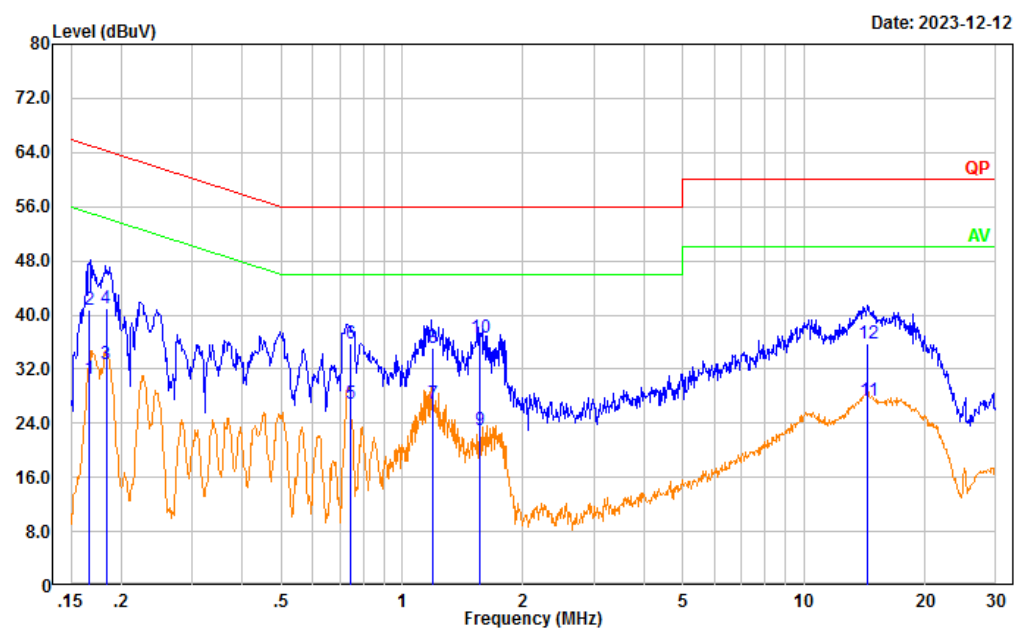
Test Data:

Project No.: CR231165634-RF
 Tester: David Huang
 Port: Line
 Note: Transmitting(BLE)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.163	23.58	9.61	33.19	55.29	22.10	Average
2	0.163	30.09	9.61	39.70	65.29	25.59	QP
3	0.208	19.45	9.61	29.06	53.28	24.22	Average
4	0.208	28.49	9.61	38.10	63.28	25.18	QP
5	0.753	13.95	9.62	23.57	46.00	22.43	Average
6	0.753	26.70	9.62	36.32	56.00	19.68	QP
7	1.156	17.56	9.62	27.18	46.00	18.82	Average
8	1.156	24.60	9.62	34.22	56.00	21.78	QP
9	1.758	10.39	9.63	20.02	46.00	25.98	Average
10	1.758	19.48	9.63	29.11	56.00	26.89	QP
11	14.026	17.67	9.68	27.35	50.00	22.65	Average
12	14.026	25.25	9.68	34.93	60.00	25.07	QP

Project No.: CR231165634-RF
 Tester: David Huang
 Port: neutral
 Note: Transmitting(BLE)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.167	20.87	9.61	30.48	55.13	24.65	Average
2	0.167	31.19	9.61	40.80	65.13	24.33	QP
3	0.183	23.08	9.61	32.69	54.33	21.64	Average
4	0.183	31.45	9.61	41.06	64.33	23.27	QP
5	0.746	17.21	9.62	26.83	46.00	19.17	Average
6	0.746	26.15	9.62	35.77	56.00	20.23	QP
7	1.188	17.24	9.62	26.86	46.00	19.14	Average
8	1.188	25.47	9.62	35.09	56.00	20.91	QP
9	1.564	13.39	9.63	23.02	46.00	22.98	Average
10	1.564	26.98	9.63	36.61	56.00	19.39	QP
11	14.417	17.63	9.68	27.31	50.00	22.69	Average
12	14.417	26.09	9.68	35.77	60.00	24.23	QP

4.2 Radiation Spurious Emissions

Serial Number:	2BD2-5	Test Date:	2023/12/13
Test Site:	966-2,966-1	Test Mode:	Transmitting
Tester:	Jeff Luo, coco Tian	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25~26.2	Relative Humidity: (%)	42~58	ATM Pressure: (kPa)	101.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
BACL	Loop Antenna	1313-1P	3092721	2023/10/20	2026/10/19
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
Audix	Test Software	E3	201021 (V9)	N/A	N/A
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2023/11/8	2024/11/7
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/9/15	2024/9/14
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2023/8/6	2024/8/5
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	2023/8/6	2024/8/5
Mini Circuits	High Pass Filter	VHF-6010+	31119	2023/8/6	2024/8/5

* 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 table and plots.

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

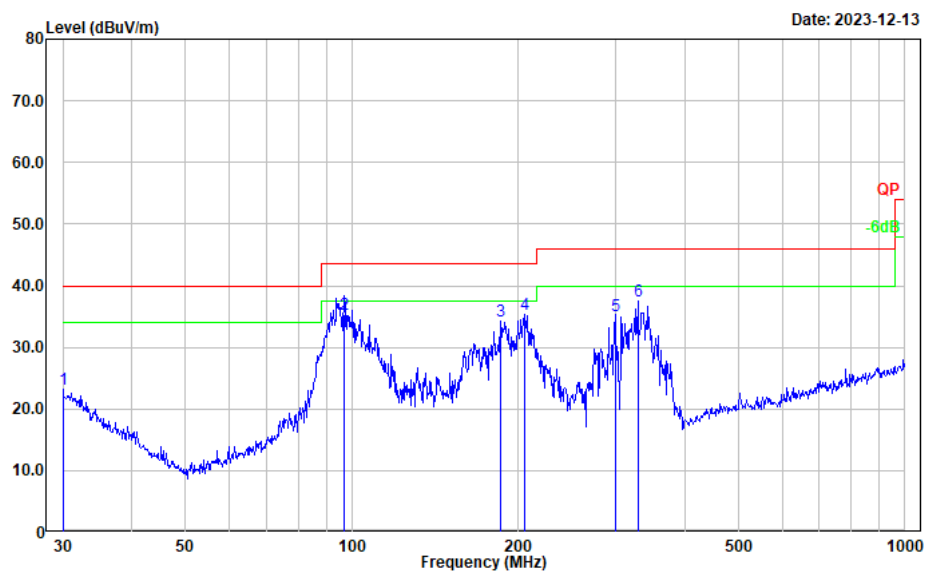
1) 9kHz~30MHz

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

2) 30MHz-1GHz (tested at maximum output power mode BLE 1Mbps)

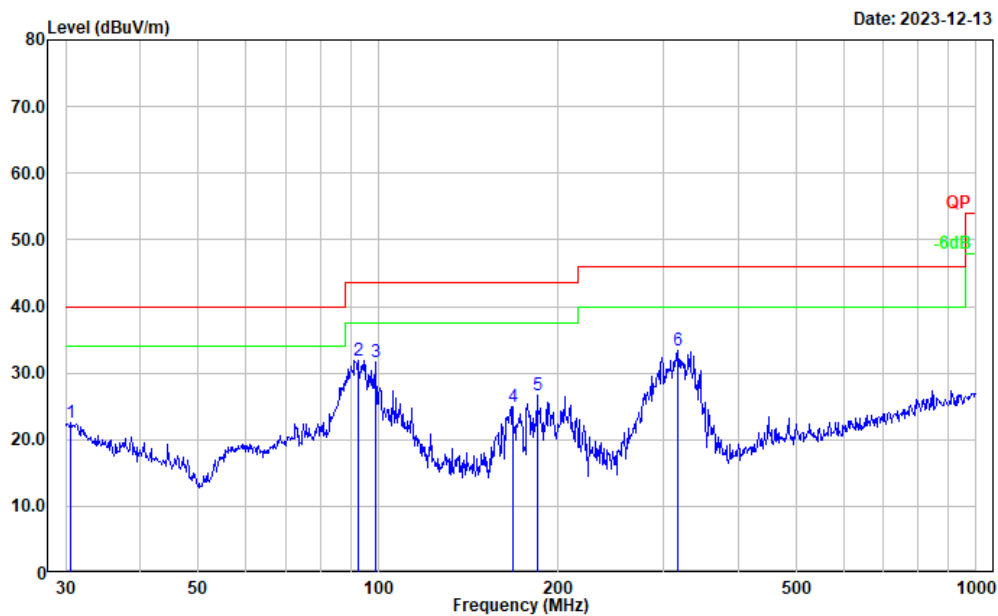
Low Channel:

Project No.: CR231165634-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BLE 1Mbps Mode)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	27.23	-4.12	23.11	40.00	16.89	Peak
2	96.775	50.78	-15.45	35.33	43.50	8.17	QP
3	185.788	48.12	-13.84	34.28	43.50	9.22	Peak
4	205.675	48.16	-12.85	35.31	43.50	8.19	Peak
5	299.316	46.31	-11.08	35.23	46.00	10.77	Peak
6	329.039	48.03	-10.58	37.45	46.00	8.55	Peak

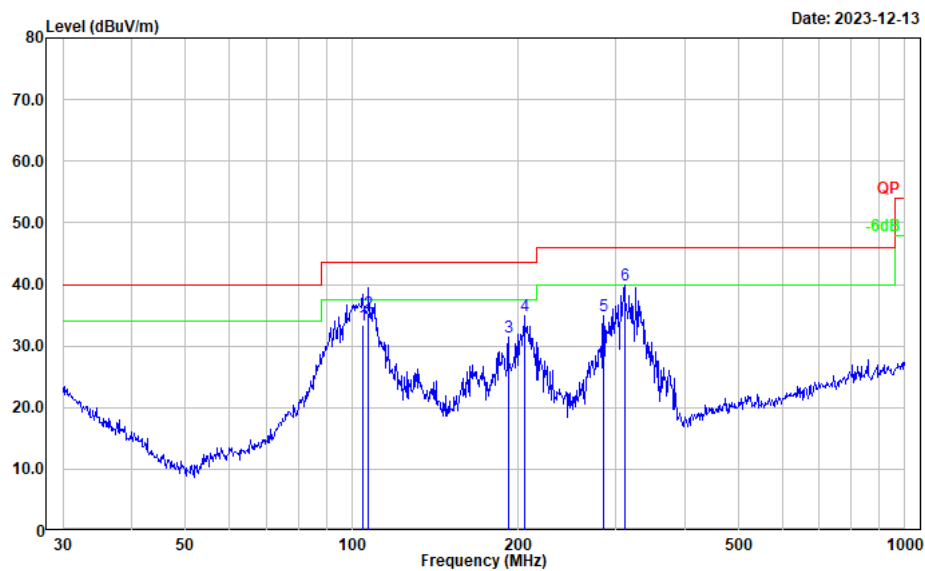
Project No.: CR231165634-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BLE 1Mbps Mode)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.638	27.22	-4.61	22.61	40.00	17.39	Peak
2	92.462	48.58	-16.61	31.97	43.50	11.53	Peak
3	98.833	46.61	-14.89	31.72	43.50	11.78	Peak
4	167.824	37.98	-12.97	25.01	43.50	18.49	Peak
5	184.490	40.53	-13.82	26.71	43.50	16.79	Peak
6	317.701	44.30	-10.83	33.47	46.00	12.53	Peak

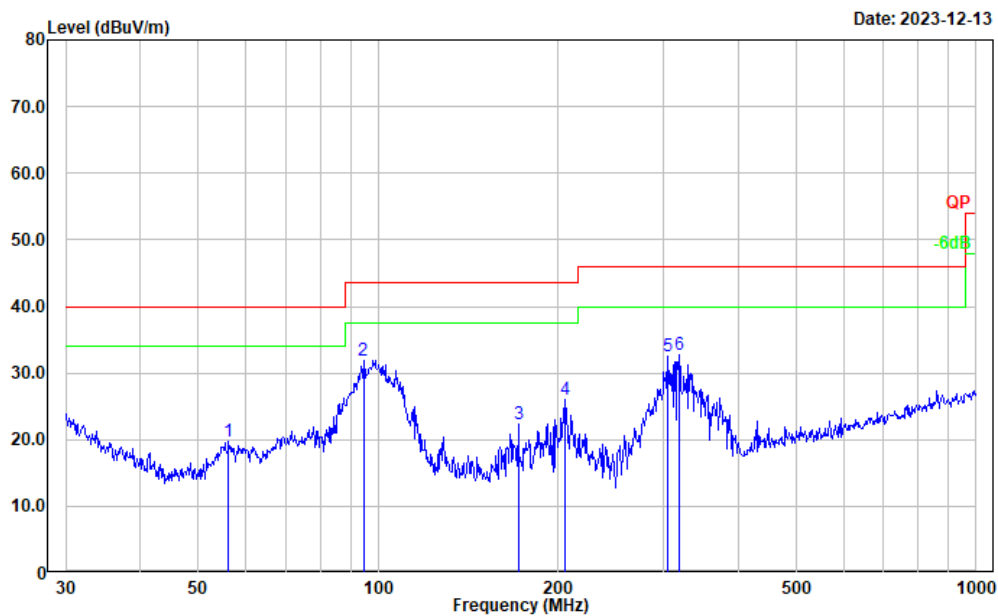
Middle Channel:

Project No.: CR231165634-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BLE 1Mbps Mode)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	104.536	47.20	-13.73	33.47	43.50	10.03	QP
2	107.134	48.58	-13.20	35.38	43.50	8.12	QP
3	191.745	45.01	-13.56	31.45	43.50	12.05	Peak
4	204.955	47.69	-12.84	34.85	43.50	8.65	Peak
5	284.977	46.67	-11.72	34.95	46.00	11.05	Peak
6	311.087	50.77	-10.91	39.86	46.00	6.14	Peak

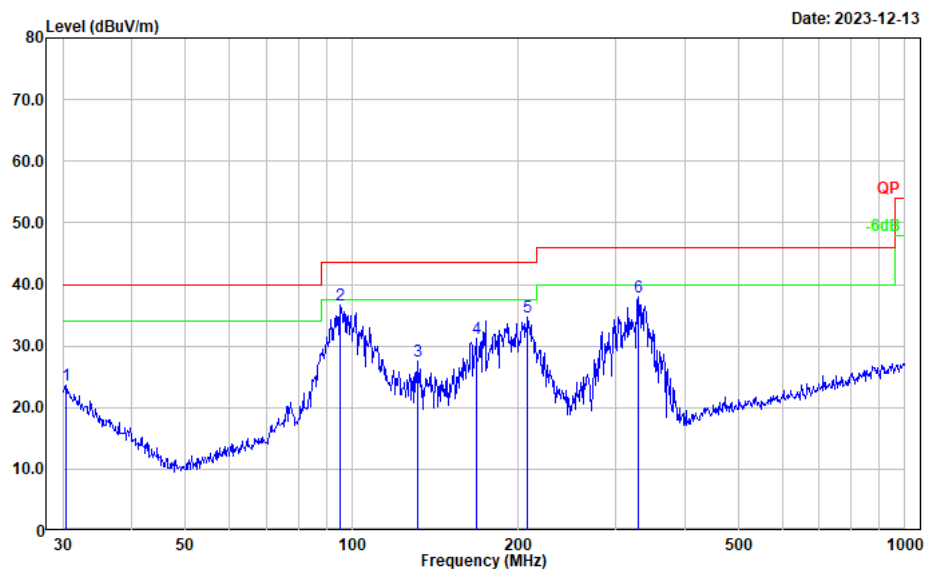
Project No.: CR231165634-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BLE 1Mbps Mode)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	56.197	37.36	-17.55	19.81	40.00	20.19	Peak
2	94.428	47.96	-16.10	31.86	43.50	11.64	Peak
3	171.393	35.57	-13.26	22.31	43.50	21.19	Peak
4	205.675	38.85	-12.85	26.00	43.50	17.50	Peak
5	304.610	43.52	-10.96	32.56	46.00	13.44	Peak
6	318.817	43.49	-10.80	32.69	46.00	13.31	Peak

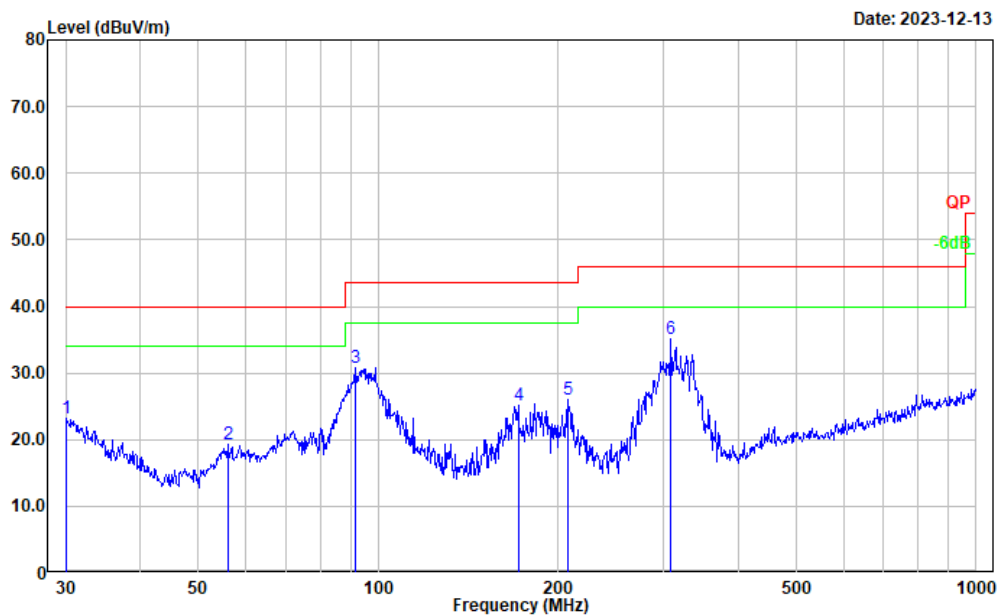
High Channel:

Project No.: CR231165634-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BLE 1Mbps Mode)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.424	28.08	-4.45	23.63	40.00	16.37	Peak
2	95.093	52.57	-15.91	36.66	43.50	6.84	Peak
3	131.297	39.30	-11.66	27.64	43.50	15.86	Peak
4	167.824	44.12	-12.97	31.15	43.50	12.35	Peak
5	207.850	47.53	-12.90	34.63	43.50	8.87	Peak
6	329.039	48.45	-10.58	37.87	46.00	8.13	Peak

Project No.: CR231165634-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BLE 1Mbps Mode)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	27.38	-4.12	23.26	40.00	16.74	Peak
2	56.001	36.87	-17.54	19.33	40.00	20.67	Peak
3	91.495	47.69	-16.87	30.82	43.50	12.68	Peak
4	171.393	38.32	-13.26	25.06	43.50	18.44	Peak
5	207.123	38.86	-12.87	25.99	43.50	17.51	Peak
6	308.913	46.07	-10.92	35.15	46.00	10.85	Peak

3) 1-25GHz:**BLE 1Mbps:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				2402	MHz		
2390.000	26.05	PK	H	31.71	57.76	74.00	16.24
2390.000	14.23	AV	H	31.71	45.94	54.00	8.06
2390.000	23.53	PK	V	31.71	55.24	74.00	18.76
2390.000	12.57	AV	V	31.71	44.28	54.00	9.72
4804.000	35.66	PK	H	11.19	46.85	74.00	27.15
4804.000	21.89	AV	H	11.19	33.08	54.00	20.92
4804.000	34.30	PK	V	11.19	45.49	74.00	28.51
4804.000	22.59	AV	V	11.19	33.78	54.00	20.22
7206.000	35.39	PK	H	15.03	50.42	74.00	23.58
7206.000	22.02	AV	H	15.03	37.05	54.00	16.95
7206.000	33.21	PK	V	15.03	48.24	74.00	25.76
7206.000	22.23	AV	V	15.03	37.26	54.00	16.74
Middle Channel:				2440	MHz		
4880.000	35.09	PK	H	11.48	46.57	74.00	27.43
4880.000	22.03	AV	H	11.48	33.51	54.00	20.49
4880.000	34.91	PK	V	11.48	46.39	74.00	27.61
4880.000	22.46	AV	V	11.48	33.94	54.00	20.06
7320.000	34.31	PK	H	15.58	49.89	74.00	24.11
7320.000	21.71	AV	H	15.58	37.29	54.00	16.71
7320.000	32.85	PK	V	15.58	48.43	74.00	25.57
7320.000	21.56	AV	V	15.58	37.14	54.00	16.86
High Channel:				2480	MHz		
2483.500	25.62	PK	H	32.19	57.81	74.00	16.19
2483.500	14.22	AV	V	32.19	46.41	54.00	7.59
2483.500	24.91	PK	V	32.19	57.10	74.00	16.90
2483.500	12.99	AV	V	32.19	45.18	54.00	8.82
4960.000	34.70	PK	H	11.77	46.47	74.00	27.53
4960.000	21.82	AV	H	11.77	33.59	54.00	20.41
4960.000	34.69	PK	V	11.77	46.46	74.00	27.54
4960.000	21.48	AV	V	11.77	33.25	54.00	20.75
7440.000	34.53	PK	H	15.98	50.51	74.00	23.49
7440.000	21.09	AV	H	15.98	37.07	54.00	16.93
7440.000	33.94	PK	V	15.98	49.92	74.00	24.08
7440.000	21.57	AV	V	15.98	37.55	54.00	16.45

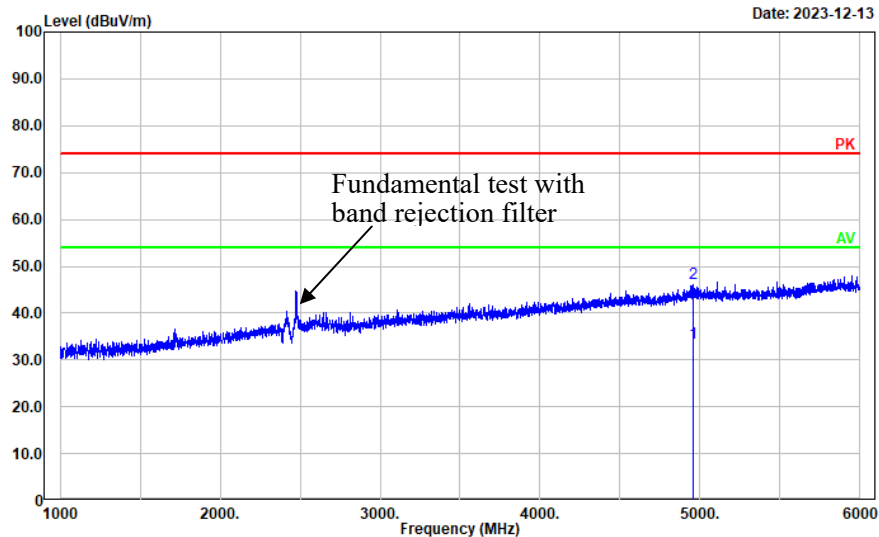
BLE 2Mbps:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				2404	MHz		
2390.000	26.20	PK	H	31.71	57.91	74.00	16.09
2390.000	14.27	AV	H	31.71	45.98	54.00	8.02
2390.000	24.92	PK	V	31.71	56.63	74.00	17.37
2390.000	12.77	AV	V	31.71	44.48	54.00	9.52
4808.000	34.77	PK	H	11.22	45.99	74.00	28.01
4808.000	21.88	AV	H	11.22	33.10	54.00	20.90
4808.000	34.02	PK	V	11.22	45.24	74.00	28.76
4808.000	21.63	AV	V	11.22	32.85	54.00	21.15
7212.000	35.76	PK	H	15.07	50.83	74.00	23.17
7212.000	21.56	AV	H	15.07	36.63	54.00	17.37
7212.000	33.80	PK	V	15.07	48.87	74.00	25.13
7212.000	21.26	AV	V	15.07	36.33	54.00	17.67
Middle Channel:				2440	MHz		
4880.000	35.48	PK	H	11.48	46.96	74.00	27.04
4880.000	21.78	AV	H	11.48	33.26	54.00	20.74
4880.000	34.48	PK	V	11.48	45.96	74.00	28.04
4880.000	21.59	AV	V	11.48	33.07	54.00	20.93
7320.000	35.18	PK	H	15.58	50.76	74.00	23.24
7320.000	21.26	AV	H	15.58	36.84	54.00	17.16
7320.000	33.77	PK	V	15.58	49.35	74.00	24.65
7320.000	21.27	AV	V	15.58	36.85	54.00	17.15
High Channel:				2478	MHz		
2483.500	26.41	PK	H	32.19	58.60	74.00	15.40
2483.500	14.22	AV	V	32.19	46.41	54.00	7.59
2483.500	24.04	PK	V	32.19	56.23	74.00	17.77
2483.500	12.79	AV	V	32.19	44.98	54.00	9.02
4956.000	34.81	PK	H	11.77	46.58	74.00	27.42
4956.000	21.66	AV	H	11.77	33.43	54.00	20.57
4956.000	35.06	PK	V	11.77	46.83	74.00	27.17
4956.000	21.80	AV	V	11.77	33.57	54.00	20.43
7434.000	34.27	PK	H	15.93	50.20	74.00	23.80
7434.000	20.87	AV	H	15.93	36.80	54.00	17.20
7434.000	34.62	PK	V	15.93	50.55	74.00	23.45
7434.000	21.15	AV	V	15.93	37.08	54.00	16.92

Listed with the worst harmonic margin test plot (BLE 1Mbps High Channel)**Horizontal**

Project No.: CR231165634
Tester: coco Tian
Polarization: horizontal
Note: ble

Date: 2023-12-13

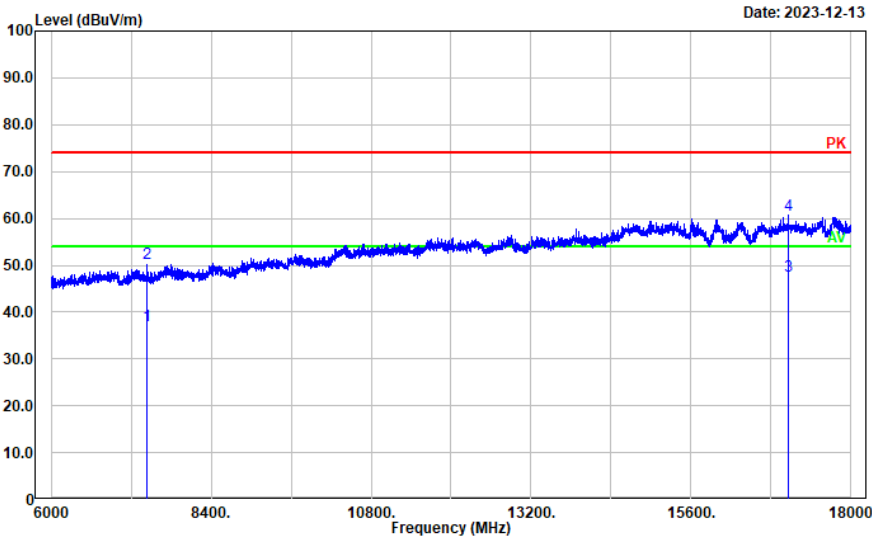


1-6GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4960.000	21.82	11.77	33.59	54.00	20.41	Average
2	4960.000	34.70	11.77	46.47	74.00	27.53	Peak

Horizontal

Project No.: CR231165634
Tester: coco Tian
Polarization: horizontal
Note: ble



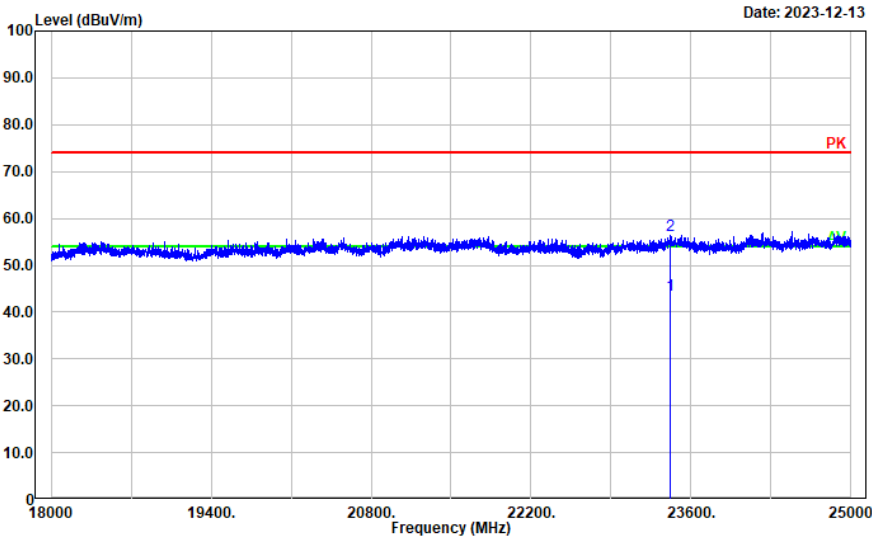
6-18GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	7440.000	21.09	15.98	37.07	54.00	16.93	Average
2	7440.000	34.53	15.98	50.51	74.00	23.49	Peak
3	17051.810	19.33	28.32	47.65	54.00	6.35	Average
4	17051.810	32.51	28.32	60.83	74.00	13.17	Peak

Horizontal

18-25GHz

Project No.: CR231165634
Tester: coco Tian
Polarization: Horizontal
Note: ble

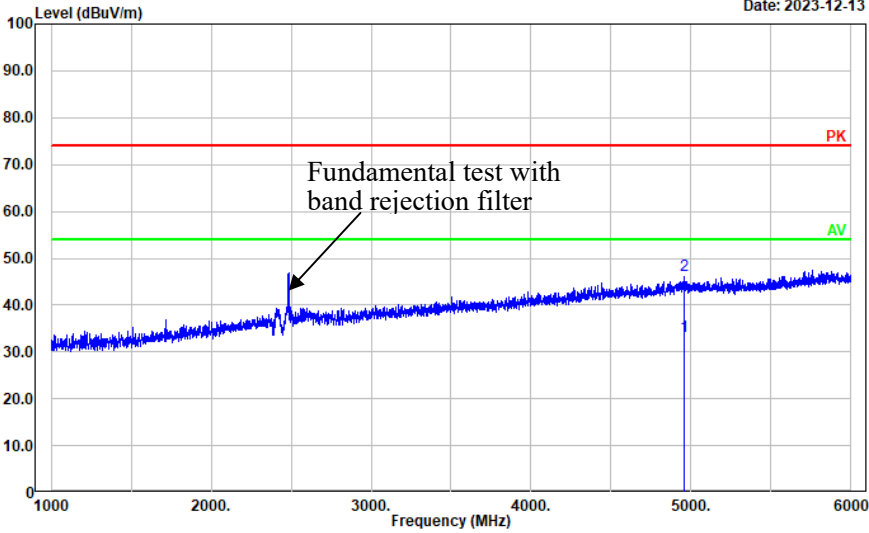


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	23414.880	38.25	5.40	43.65	54.00	10.35	Average
2	23414.880	51.08	5.40	56.48	74.00	17.52	Peak

Vertical

Project No.: CR231165634
Tester: coco Tian
Polarization: vertical
Note: ble

Date: 2023-12-13

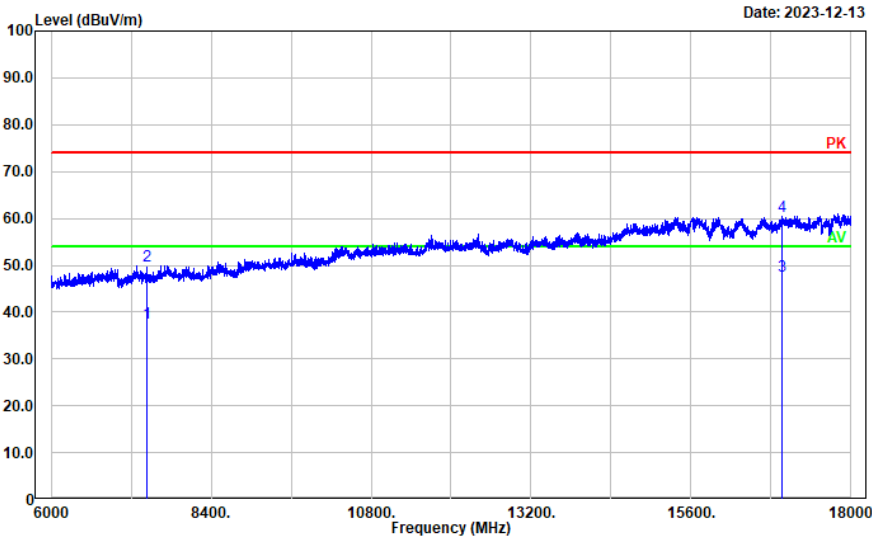


1-6GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4960.000	21.48	11.77	33.25	54.00	20.75	Average
2	4960.000	34.69	11.77	46.46	74.00	27.54	Peak

Vertical

Project No.: CR231165634
Tester: coco Tian
Polarization: vertical
Note: ble



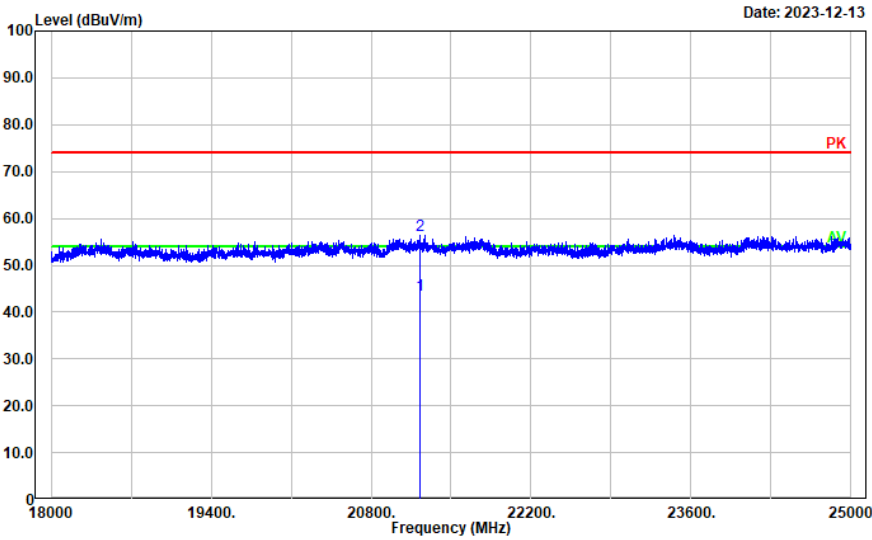
6-18GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	7440.000	21.57	15.98	37.55	54.00	16.45	Average
2	7440.000	33.94	15.98	49.92	74.00	24.08	Peak
3	16972.590	19.68	27.97	47.65	54.00	6.35	Average
4	16972.590	32.55	27.97	60.52	74.00	13.48	Peak

Vertical

18-25GHz

Project No.: CR231165634
Tester: coco Tian
Polarization: Vertical
Note: ble



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	21229.040	38.78	4.85	43.63	54.00	10.37	Average
2	21229.040	51.47	4.85	56.32	74.00	17.68	Peak

4.3 6 dB Emission Bandwidth

Serial Number:	2BD2-1	Test Date:	2023/12/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.4	Relative Humidity: (%)	38	ATM Pressure: (kPa)	101.1
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Test Equipment List and Details:

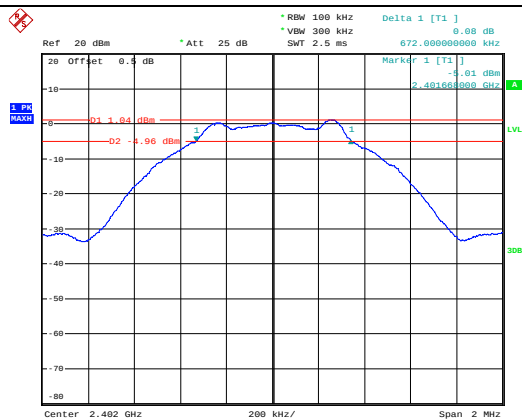
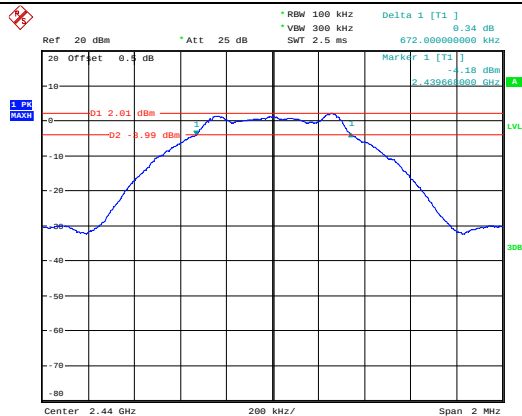
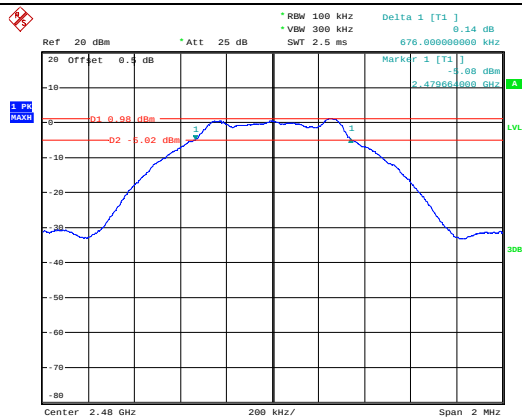
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

* 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).

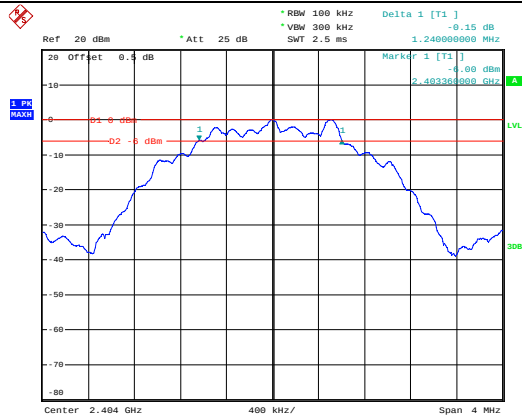
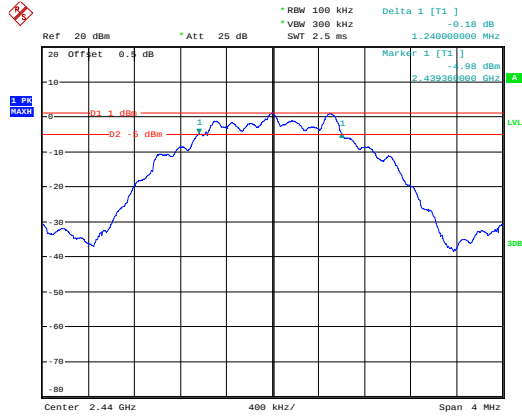
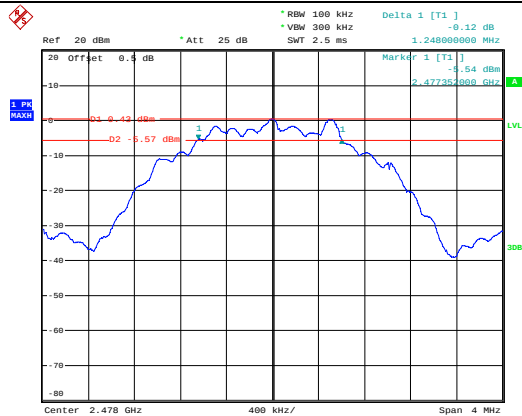
Test Data:

Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
BLE 1Mbps	2402	0.672	≥ 0.5
	2440	0.672	≥ 0.5
	2480	0.676	≥ 0.5
BLE 2Mbps	2404	1.240	≥ 0.5
	2440	1.240	≥ 0.5
	2478	1.248	≥ 0.5

6dB Emission Bandwidth

BLE 1Mbps
Lowest ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 01:55:56BLE 1Mbps
Middle ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 01:57:08BLE 1Mbps
Highest ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 01:58:24

6dB Emission Bandwidth

BLE 2Mbps
Lowest ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 01:59:34BLE 2Mbps
Middle ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:00:44BLE 2Mbps
Highest ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:02:29

4.4 Maximum Conducted Output Power

Serial Number:	2BD2-1	Test Date:	2023/12/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.4	Relative Humidity: (%)	38	ATM Pressure: (kPa)	101.1
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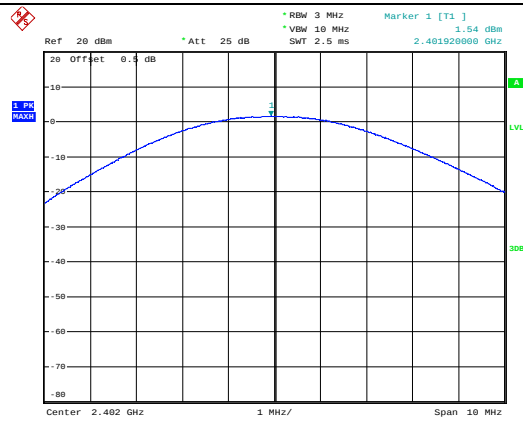
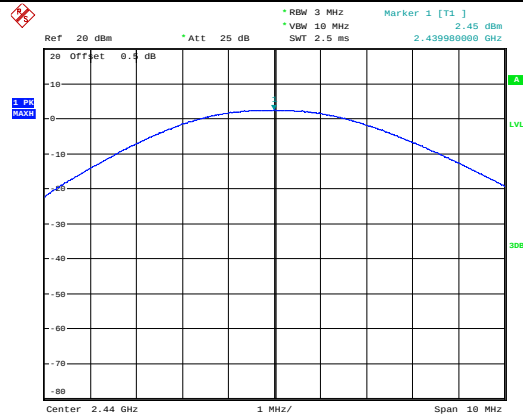
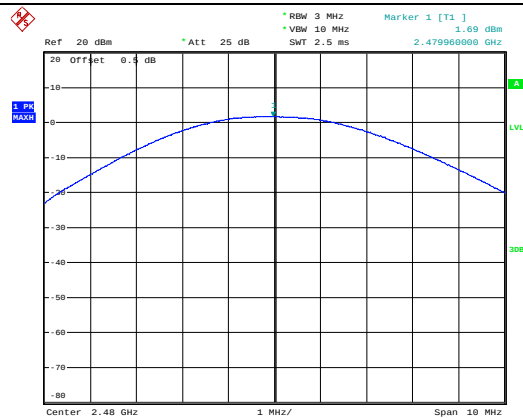
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

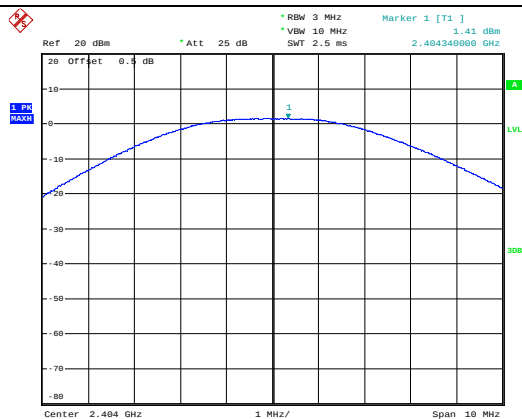
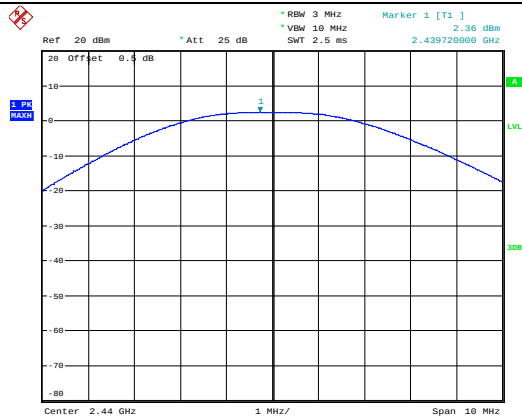
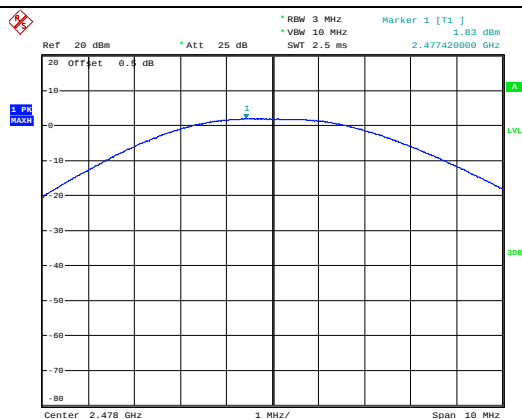
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Modes	Test Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)
BLE 1Mbps	2402	1.54	≤30
	2440	2.45	≤30
	2480	1.69	≤30
BLE 2Mbps	2404	1.41	≤30
	2440	2.36	≤30
	2478	1.83	≤30

Maximum Conducted Peak Output PowerBLE 1Mbps
Lowest ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:25:01BLE 1Mbps
Middle ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:25:28BLE 1Mbps
Highest ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:26:01

Maximum Conducted Peak Output Power

BLE 2Mbps
Lowest ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:26:38BLE 2Mbps
Middle ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:27:09BLE 2Mbps
Highest ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:27:54

4.5 Maximum power spectral density

Serial Number:	2BD2-1	Test Date:	2023/12/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.4	Relative Humidity: (%)	38	ATM Pressure: (kPa)	101.1
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Test Equipment List and Details:

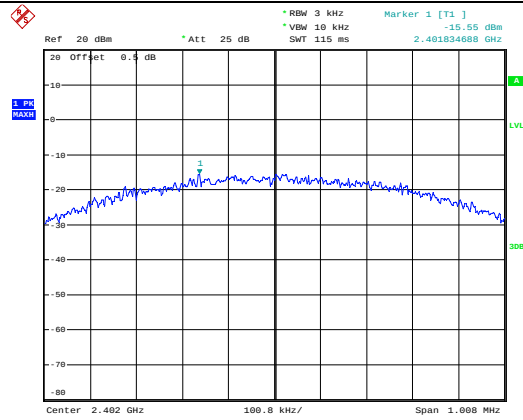
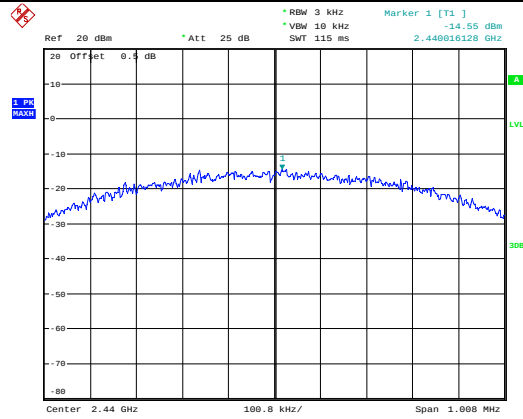
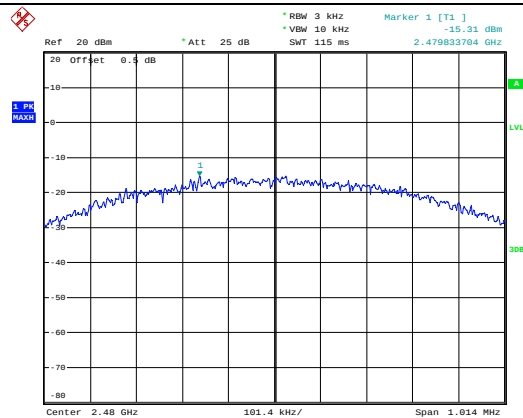
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

* 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).

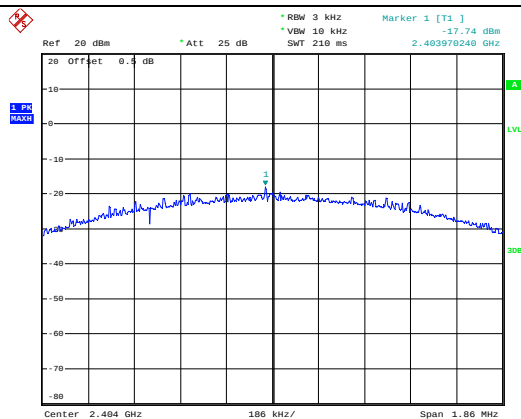
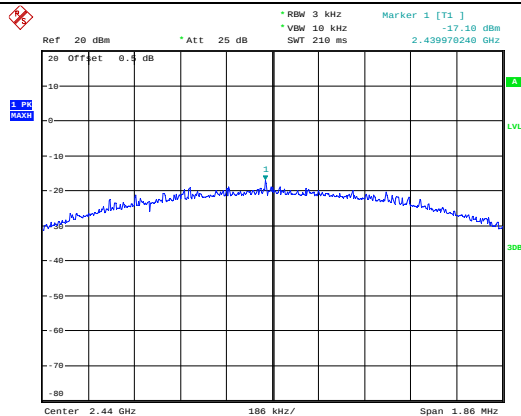
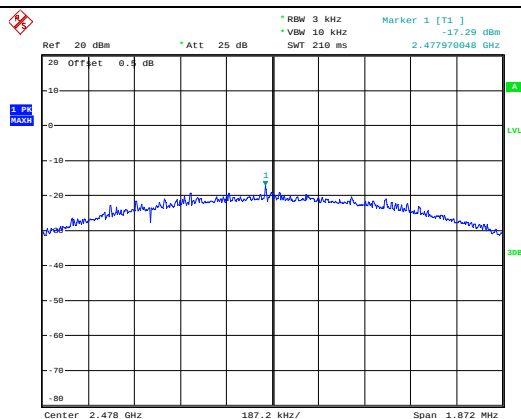
Test Data:

Test Modes	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
BLE 1Mbps	2402	-15.55	≤8.00
	2440	-14.55	≤8.00
	2480	-15.31	≤8.00
BLE 2Mbps	2404	-17.74	≤8.00
	2440	-17.10	≤8.00
	2478	-17.29	≤8.00

Maximum power spectral density

BLE 1Mbps
Lowest ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:15:35BLE 1Mbps
Middle ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:16:38BLE 1Mbps
Highest ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:16:18

Maximum power spectral density

BLE 2Mbps
Lowest ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:17:00BLE 2Mbps
Middle ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:17:18BLE 2Mbps
Highest ChannelProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:17:39

4.6 100 kHz Bandwidth of Frequency Band Edge

Serial Number:	2BD2-1	Test Date:	2023/12/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.4	Relative Humidity: (%)	38	ATM Pressure: (kPa)	101.1
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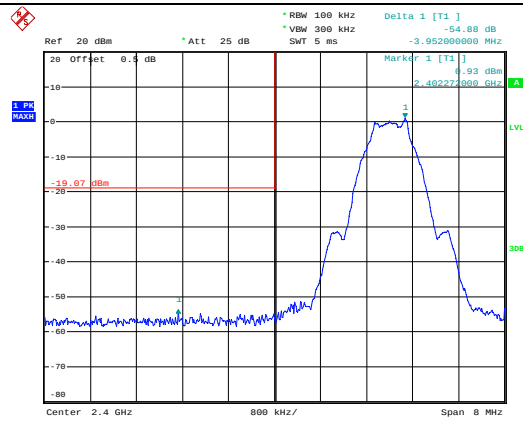
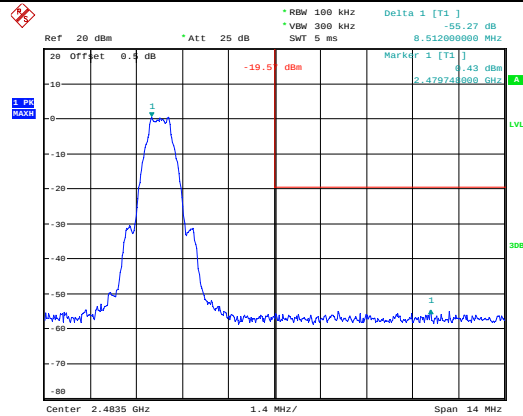
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

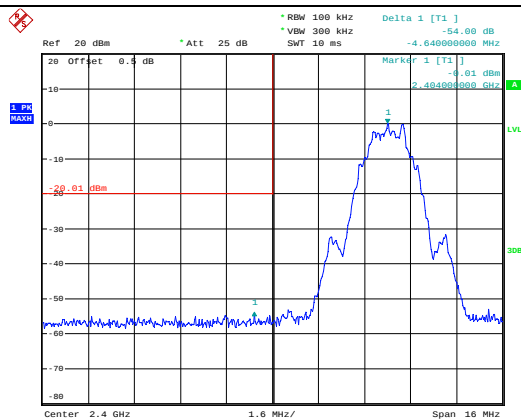
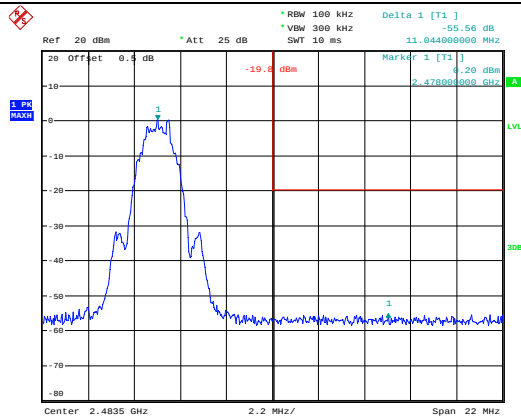
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

100 kHz Bandwidth of Frequency Band Edge

BLE 1Mbps
Lowest Band edgeProjectNo.: CR231165634-RF Tester: Morpheus Shi
Date: 8.DEC.2023 02:11:26BLE 1Mbps
Highest Band edgeProjectNo.: CR231165634-RF Tester: Morpheus Shi
Date: 8.DEC.2023 02:12:10

100 kHz Bandwidth of Frequency Band Edge

BLE 2Mbps
Lowest Band edgeProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:13:14BLE 2Mbps
Highest Band edgeProjectNo.:CR231165634-RF Tester:Morpheus Shi
Date: 8.DEC.2023 02:13:48

4.7 Duty Cycle

Serial Number:	2BD2-1	Test Date:	2023/12/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	23.4	Relative Humidity: (%)	38	ATM Pressure: (kPa)	101.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	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:

Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (Hz)
BLE 1Mbps	2.204	2.513	87.70	454	0.5
BLE 2Mbps	1.160	1.871	62.00	862	1

5. RF EXPOSURE EVALUATION

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 ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 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 ≤ 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 Measurement Result

The max conducted power including tune-up tolerance is 2.5dBm (1.78mW).

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$
 $= 1.78/5 \cdot (\sqrt{2.480}) = 0.6 < 3.0$

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

6. EUT PHOTOGRAPHS

Please refer to the attachment CR231165634-EXP EUT EXTERNAL PHOTOGRAPHS and
CR231165634-INP EUT INTERNAL PHOTOGRAPHS

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231165634-00A-TSP TEST SETUP PHOTOGRAPHS.

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