



## **TEST REPORT**

**Applicant: Evolve 3 Holdings Pty Ltd** 

Address: PO BOX 6222, NARRAWEENA, NSW, Australia

FCC ID: 2AWLG-T3P116V1

**Product Name: Laptop** 

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: CR231061450-00B** 

**Date Of Issue: 2023/12/7** 

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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.

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The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 442868, the FCC Designation No.: CN1314.

#### **Declarations**

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## **DOCUMENT REVISION HISTORY**

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231061450-00B	Original Report	2023/12/7

#### 1. GENERAL INFORMATION

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

EUT Name:	Laptop
EUT Model:	T3P116V1
Trade Name:	evolve (III)
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	1.65dBm
Modulation Type:	GFSK
Rated Input Voltage:	DC 20V from AC/DC Adapter (Type-C) or DC 20V from AC/DC Adapter (DC IN) or DC 7.6V from Built-in Battery
Serial Number:	2CHV-1 (for Emissions Test) 2CHV-2 (for RF Conducted Test)
<b>EUT Received Date:</b>	2023/10/23
EUT Received Status:	Good

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#### Note:

#### **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 perform	ned to test:		
Test	Channel	Freque	ency (MHz)	
L	owest	2402		
N	1iddle	2440		
Н	ighest	,	2480	
N	liddle	,	2440	

<sup>1.</sup> EUT has two external ports that can support power input, namely DC IN and Type-C. Please refer to the EUT external photos and product manual for details. The manufacturer declares that two input ports cannot input power simultaneously.

<sup>2.</sup> These two power input ports of product were evaluated in the CR231061450-00A report for the AC Line Conducted Emissions Test and Radiation Spurious Emissions Test. The report showed that powered from DC IN had worse emissions in AC Line Conducted Emissions Test and Radiation Spurious Emissions Test. Therefore, only the test results of product equipped with worst case adapter are reflected in this report.

#### **Antenna Information Detail ▲:**

Antenna	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
AUX Antenna	FPC	50	2.4~2.5GHz	2.57dBi
(Support BT+WLAN)	110	30	2.4 ·2.5GHZ	2.57 dD1
The Method of \$15,202 Compliance				

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The Method of §15.203 Compliance:

	Antenna	was 1	permanently	attached	to	the	unit
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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
AC/DC Adapter (Type-C)	Shenzhen Jihongda Power Co., Ltd.	JHD-AP045U-PD- BF502	Input: 100-240V~50/60Hz1.5A Output: 5V 3A/9V 3A/12V 3A /15V 3A/20V 2.25A

#### 1.2 Description of Test Configuration

#### 1.2.1 EUT Operation Condition

#### For BLE:

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

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

Test Modes	Power Level Setting			
Test Wodes	Lowest Channel	Middle Channel	Highest Channel	
BLE 1Mbps	-10	-10	-10	
BLE 2Mbps	-10	-10	-10	

#### 1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
PHILIPS	Monitor	24PFF5595/T3	XM2A2124000343
SanDisk	TF Card	16 GB	1183DRECV11N
Xinspower	AC/DC Adapter (DC IN)	A361-1203000D	Unknown
CLC	Earphone	Whiteview5.0	EP21107125
PHILIPS	Keyboard	SPT6234	K234210510746
PHILIPS	Mouse	SPT6234	C234210506222

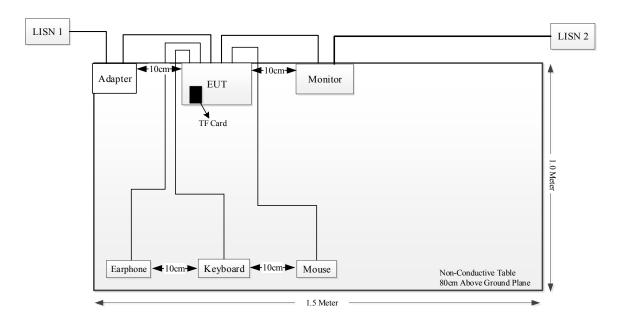
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1.2.3 Support Cable List and Details

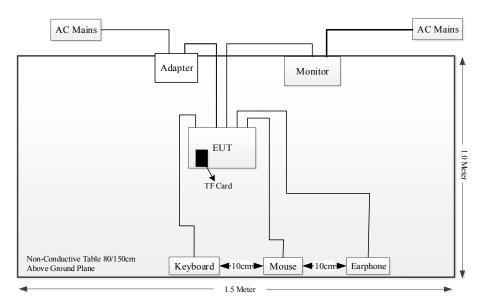
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
Adapter DC Output Power Cable	no	no	2.0	AC/DC Adapter (DC IN)	EUT
AC Power Cable	no	no	1.0	AC/DC Adapter (DC IN)	LISN
Earphone Cable	no	no	1.5	EUT	Earphone
HDMI Cable	no	no	1.0	EUT	Monitor
Keyboard Cable	no	no	1.5	EUT	Keyboard
Mouse Cable	no	no	1.5	EUT	Mouse

#### 1.2.4 Block Diagram of Test Setup

#### AC line conducted emissions:



#### **Radiation Spurious Emissions:**



#### 1.3 Measurement Uncertainty

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

Parameter	Measurement Uncertainty		
Occupied Channel Bandwidth	±5 %		
RF output power, conducted	±0.61dB		
Power Spectral Density, conducted	±0.61 dB		
Unwanted Emissions, radiated	9kHz~30MHz: 4.12dB, 30MHz~200MHz: 4.15 dB, 200MHz~1GHz: 5.61 dB,1GHz~6GHz: 5.14 dB, 6GHz~18GHz: 5.93 dB, 18GHz~26.5GHz:5.47 dB, 26.5GHz~40GHz: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
§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).

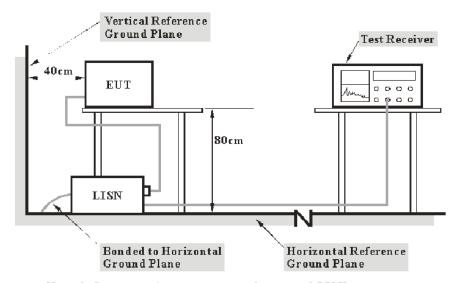
(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz,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

	Conducted limit (dBµV)		
Frequency of emission (MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

<sup>\*</sup>Decreases with the logarithm of the frequency.

- (b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:
- (1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.
- (2) For all other carrier current systems:  $1000~\mu V$  within the frequency band 535-1705~kHz, as measured using a  $50~\mu H/50$  ohms LISN.
- (3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.
- (c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

#### 3.1.2 EUT Setup



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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.

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#### 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

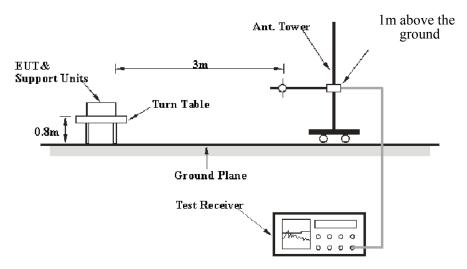
FCC §15.247 (d);

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)).

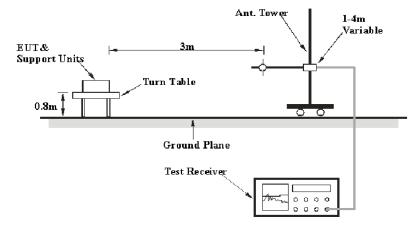
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#### 3.2.2 EUT Setup

#### 9kHz~30MHz:

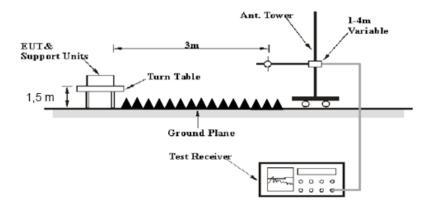


#### 30MHz~1GHz:



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#### **Above 1GHz:**



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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	/	PK
9 KHZ – 130 KHZ	/	/	200 Hz	QP/AV
150 kHz – 30 MHz	10 kHz	30 kHz	/	PK
	/	/	9 kHz	QP/AV
30 MHz – 1000 MHz	100 kHz	300 kHz	/	PK
	/	/	120 kHz	QP

1GHz-25GHz:

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

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Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1 GHz, average detection modes for the frequency bands 9–90 kHz and 110–490 kHz, 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

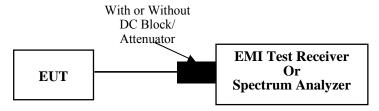
#### 3.3.1 Applicable Standard

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.

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#### **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)  $\geq 3 \times RBW$ .
- 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

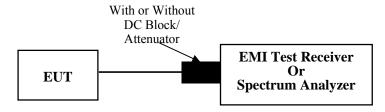
#### 3.4.1 Applicable Standard

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.

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#### **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 × RBW].
- c) Set span  $\geq$  [3 × 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

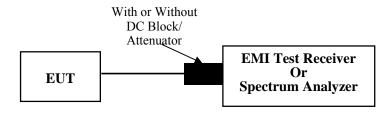
#### 3.5.1 Applicable Standard

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.

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#### **3.5.2 EUT Setup**



#### 3.5.3 Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to 3 kHz  $\leq$  RBW  $\leq$  100 kHz.
- d) Set the VBW  $\geq$  [3 × RBW].
- e) Detector = peak.
- f) Sweep time = auto couple.
- 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.

#### 3.6 100 kHz Bandwidth of Frequency Band Edge

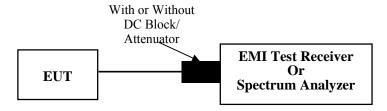
#### 3.6.1 Applicable Standard

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)).

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#### **3.6.2 EUT Setup**



#### 3.6.3 Test Procedure

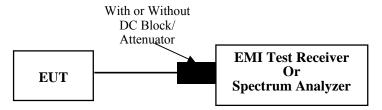
According to ANSI C63.10-2013 Section 11.11

- 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  $\times$  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**



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#### 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  $T \le 16.7 \mu s$ .)

#### 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.

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#### 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:	2CHV-1	Test Date:	2023/11/15
Test Site:	CE	Test Mode:	Transmitting
Tester:	David Huang	Test Result:	Pass

Report No.: CR231061450-00B

#### **Environmental Conditions:**

Temperature: (°C) 26.4	Relative Humidity: (%)	46	ATM Pressure: (kPa)	101.7
------------------------	------------------------	----	---------------------	-------

#### **Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2023/3/31	2024/3/30
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

<sup>\*</sup> 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:**

(Powered from DC IN port was the worst)

Tested at Maximum output power mode: BLE 2Mbps, Highest channel)

Please refer to the below table and plots.

64.0

56.0

48.0 40.0 32.0

4.939

4.939

11

12

29.79

16.51

9.66

9.66

Project No.: CR231061450-RF
Tester: David Huang
Port: Line
Note: Transmitting(BLE)

39.45

26.17

56.00

46.00

80 Level (dBuV)

72.0 64.0

56.0

48.0 40.0 32.0

24.0

16.0 8.0

1

3

7

8

9

10

11

12

No. Frequency

(MHz)

0.154

0.154

0.263

0.263

1.107

1.107

1.562

1.562

2.735

2.735

5.705

5.705

Project No.: CR231061450-RF Tester: David Huang Port: neutral

Note: Transmitting(BLE)

Reading

(dBµV)

28.25

16.03

31.25

22.44

32.24

22.73

31.57

19.62

30.21

14.42

30.32

17.11

Factor

(dB)

9.61

9.61

9.61

9.61

9.62

9.62

9.63

9.63

9.64

9.64

9.66

9.66

Result

 $(dB\mu V)$ 

37.86

25.64

40.86

32.05

41.86

32.35

41.20

29.25

39.85

24.06

39.98

26.77

### **4.2 Radiation Spurious Emissions**

Serial Number:	2CHV-1	Test Date:	2023/11/15~2023/11/19
Test Site:	966-2,966-1	Test Mode:	Transmitting
Tester:	Jeff Luo, coco Tian	Test Result:	Pass

Report No.: CR231061450-00B

Environmental Conditions:					
Temperature: $(^{\circ}\mathbb{C})$	25.2~25.4	Relative Humidity: (%)	54~57	ATM Pressure: (kPa)	101.7~102

#### **Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
Radiation Spurious Emissions Below 1GHz							
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		
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17		
	Radiatio	on Spurious Emissions	s Above 1GHz				
АН	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		
Audix	Test Software	E3	201021 (V9)	N/A	N/A		
PASTERNACK	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		

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

#### **Test Data:**

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

Please refer to the below table and plots.

#### 1) 9kHz~30MHz

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

Report No.: CR231061450-00B

#### 2) 30MHz-1GHz

Note:

- 1. Powered from DC IN port was the worst.
- 2. Tested at Maximum output power mode: BLE 2Mbps.

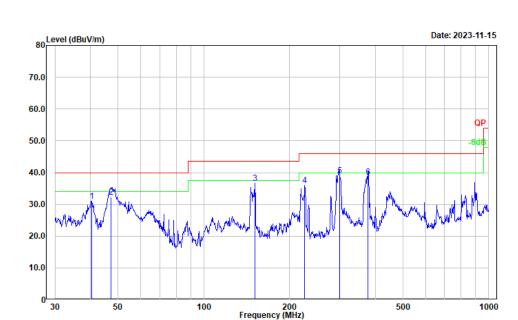
Please refer to the below plots.

#### BLE 2Mbps \_ Low Channel \_ Horizontal Project No.: CR231061450-RF Tester: Jeff Luo Polarization: horizontal Note: Date: 2023-11-15 80 Level (dBuV/m) 70.0 60.0 50.0 40.0 30.0 20.0 10.0 200 Frequency (MHz) 30 50 100 500 1000 Reading No. Result Limit Frequency Factor Margin Detector (MHz) (dBµV) (dB/m) $(dB\mu V/m)$ $(dB\mu V/m)$ (dB) QР 47.160 47.81 -15.48 32.33 40.00 7.67 145.861 45.13 33.26 43.50 10.24 Peak Peak 224.519 49.65 -12.90 36.75 46.00 9.25 -10.95 38.45 7.55 OP 292,058 49.40 46.00 9.77 378.584 45.40 -9.17 36.23 46.00 Peak 893.857 36.74 -1.02 35.72 46.00 10.28 Peak

# BLE 2Mbps \_ Low Channel \_ Vertical

Report No.: CR231061450-00B

Project No.: CR231061450-RF Tester: Jeff Luo Polarization: vertical Note:

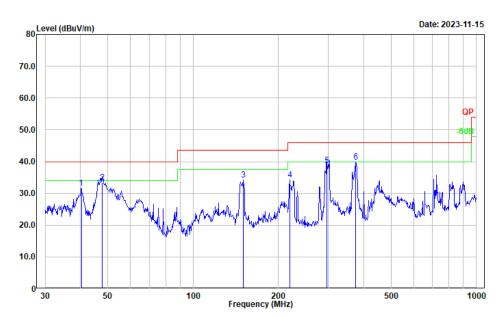


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	
1	40.417	42.76	-11.66	31.10	40.00	8.90	Peak	
2	47.160	47.89	-15.48	32.41	40.00	7.59	QP	
3	151.067	48.54	-11.95	36.59	43.50	6.91	Peak	
4	226.099	48.86	-12.94	35.92	46.00	10.08	Peak	
5	299.316	49.67	-10.65	39.02	46.00	6.98	QP	
6	377.259	47.84	-9.22	38.62	46.00	7.38	<b>OP</b>	

#### **BLE 2Mbps** \_ **Middle Channel** \_ **Vertical**

Report No.: CR231061450-00B

Project No.: CR231061450-RF Tester: Jeff Luo Polarization: vertical Note:



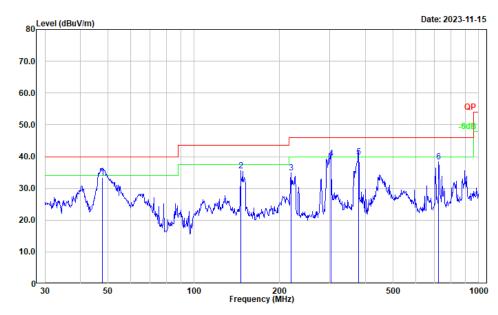
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	
1	40.276	43.15	-11.58	31.57	40.00	8.43	Peak	
2	47.659	49.16	-15.78	33.38	40.00	6.62	QP	
3	150.011	46.21	-11.90	34.31	43.50	9.19	Peak	
4	219.075	47.16	-12.82	34.34	46.00	11.66	Peak	
5	296.184	49.57	-10.74	38.83	46.00	7.17	OP	
6	27/1 622	40.29	0.24	20 04	46 00	6.06	Pook	

#### BLE 2Mbps \_ High Channel \_ Vertical

Report No.: CR231061450-00B

Project No.: CR231061450-RF Tester: Jeff Luo Polarization: vertical

Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	47.659	49.22	-15.78	33.44	40.00	6.56	QP
2	145.861	47.46	-11.87	35.59	43.50	7.91	Peak
3	219.075	47.81	-12.82	34.99	46.00	11.01	Peak
4	302.481	50.02	-10.61	39.41	46.00	6.59	QP
5	378.584	48.97	-9.17	39.80	46.00	6.20	QP
6	724.261	41.55	-3.20	38.35	46.00	7.65	Peak

3) 1-25GHz: Note: Powered from Type-C port mode was performed to  $1\sim\!25\text{GHz}$  Radiated Emission test.

Report No.: CR231061450-00B

#### **BLE 1Mbps:**

Г	Rece	eiver	D.1	Г 4	D 14	T imita	Manain	
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBµV/m)	Margin (dB)	
Low Channel: 2402 MHz								
2390.000	26.79	PK	Н	31.71	58.50	74.00	15.50	
2390.000	26.54	PK	V	31.71	58.25	74.00	15.75	
2390.000	13.48	AV	V	31.71	45.19	54.00	8.81	
4804.000	34.26	PK	Н	11.19	45.45	74.00	28.55	
4804.000	21.37	AV	Н	11.19	32.56	54.00	21.44	
4804.000	34.67	PK	V	11.19	45.86	74.00	28.14	
4804.000	21.62	AV	V	11.19	32.81	54.00	21.19	
7206.000	33.44	PK	Н	15.03	48.47	74.00	25.53	
7206.000	20.53	AV	Н	15.03	35.56	54.00	18.44	
7206.000	33.64	PK	V	15.03	48.67	74.00	25.33	
7206.000	20.37	AV	V	15.03	35.40	54.00	18.60	
		Middle (	Channel:	2440	MHz			
4880.000	34.79	PK	Н	11.48	46.27	74.00	27.73	
4880.000	21.53	AV	Н	11.48	33.01	54.00	20.99	
4880.000	34.68	PK	V	11.48	46.16	74.00	27.84	
4880.000	21.50	AV	V	11.48	32.98	54.00	21.02	
7320.000	33.76	PK	Н	15.58	49.34	74.00	24.66	
7320.000	20.63	AV	Н	15.58	36.21	54.00	17.79	
7320.000	33.37	PK	V	15.58	48.95	74.00	25.05	
7320.000	20.15	AV	V	15.58	35.73	54.00	18.27	
		High (	Channel:	2480	MHz			
2483.500	26.54	PK	Н	32.19	58.73	74.00	15.27	
2483.500	13.94	AV	Н	32.19	46.13	54.00	7.87	
2483.500	26.73	PK	V	32.19	58.92	74.00	15.08	
2483.500	14.02	AV	V	32.19	46.21	54.00	7.79	
4960.000	34.62	PK	Н	11.77	46.39	74.00	27.61	
4960.000	21.37	AV	Н	11.77	33.14	54.00	20.86	
4960.000	34.03	PK	V	11.77	45.80	74.00	28.20	
4960.000	21.11	AV	V	11.77	32.88	54.00	21.12	
7440.000	33.56	PK	Н	15.98	49.54	74.00	24.46	
7440.000	20.91	AV	Н	15.98	36.89	54.00	17.11	
7440.000	33.68	PK	V	15.98	49.66	74.00	24.34	
7440.000	20.65	AV	V	15.98	36.63	54.00	17.37	

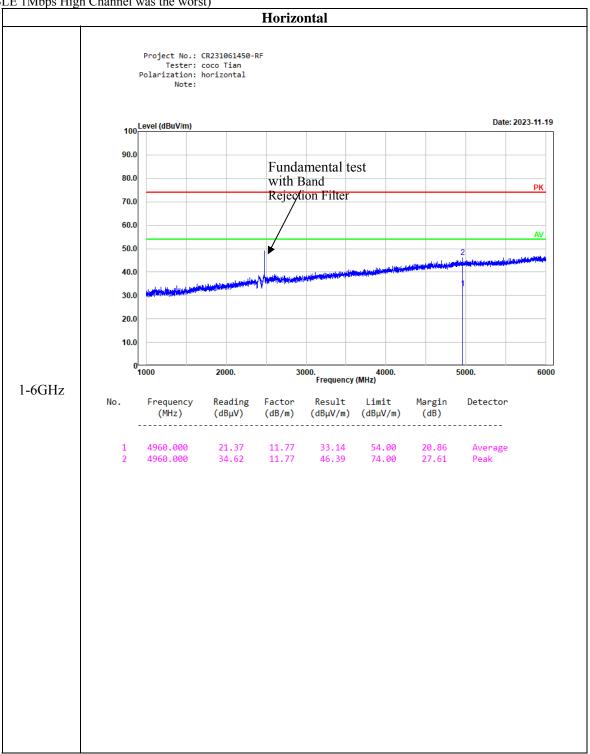
**BLE 2Mbps:** 

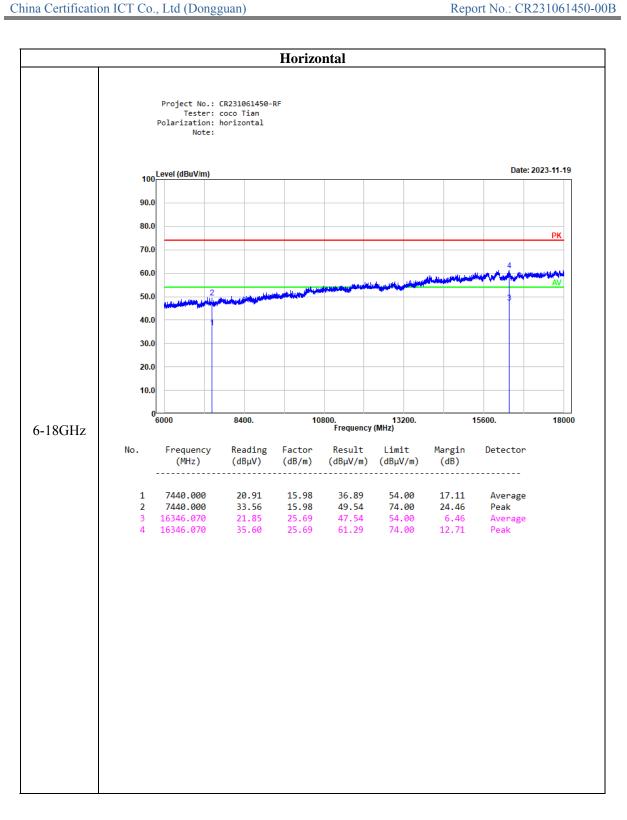
BLE 2Mbps:									
F	Receiver		D. 1	Г	D a 14	T : ',			
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)		
Low Channel: 2402 MHz									
2390.000	26.75	PK	Н	31.71	58.46	74.00	15.54		
2390.000	13.48	AV	Н	31.71	45.19	54.00	8.81		
2390.000	26.58	PK	V	31.71	58.29	74.00	15.71		
2390.000	13.44	AV	V	31.71	45.15	54.00	8.85		
4804.000	34.76	PK	Н	11.19	45.95	74.00	28.05		
4804.000	21.59	AV	Н	11.19	32.78	54.00	21.22		
4804.000	34.35	PK	V	11.19	45.54	74.00	28.46		
4804.000	21.46	AV	V	11.19	32.65	54.00	21.35		
7206.000	33.34	PK	Н	15.03	48.37	74.00	25.63		
7206.000	20.67	AV	Н	15.03	35.70	54.00	18.30		
7206.000	33.49	PK	V	15.03	48.52	74.00	25.48		
7206.000	20.54	AV	V	15.03	35.57	54.00	18.43		
	-1	Middle (	Channel:	2440	MHz				
4880.000	34.79	PK	Н	11.48	46.27	74.00	27.73		
4880.000	21.58	AV	Н	11.48	33.06	54.00	20.94		
4880.000	34.81	PK	V	11.48	46.29	74.00	27.71		
4880.000	21.67	AV	V	11.48	33.15	54.00	20.85		
7320.000	33.46	PK	Н	15.58	49.04	74.00	24.96		
7320.000	20.69	AV	Н	15.58	36.27	54.00	17.73		
7320.000	33.44	PK	V	15.58	49.02	74.00	24.98		
7320.000	20.39	AV	V	15.58	35.97	54.00	18.03		
		High (	Channel:	2480	MHz				
2483.500	26.47	PK	Н	32.19	58.66	74.00	15.34		
2483.500	13.38	AV	Н	32.19	45.57	54.00	8.43		
2483.500	26.41	PK	V	32.19	58.60	74.00	15.40		
2483.500	13.57	AV	V	32.19	45.76	54.00	8.24		
4960.000	34.59	PK	Н	11.77	46.36	74.00	27.64		
4960.000	21.64	AV	Н	11.77	33.41	54.00	20.59		
4960.000	34.39	PK	V	11.77	46.16	74.00	27.84		
4960.000	21.78	AV	V	11.77	33.55	54.00	20.45		
7440.000	33.54	PK	Н	15.98	49.52	74.00	24.48		
7440.000	20.55	AV	Н	15.98	36.53	54.00	17.47		
7440.000	33.73	PK	V	15.98	49.71	74.00	24.29		
7440.000	20.82	AV	V	15.98	36.80	54.00	17.20		
	•				•	*			

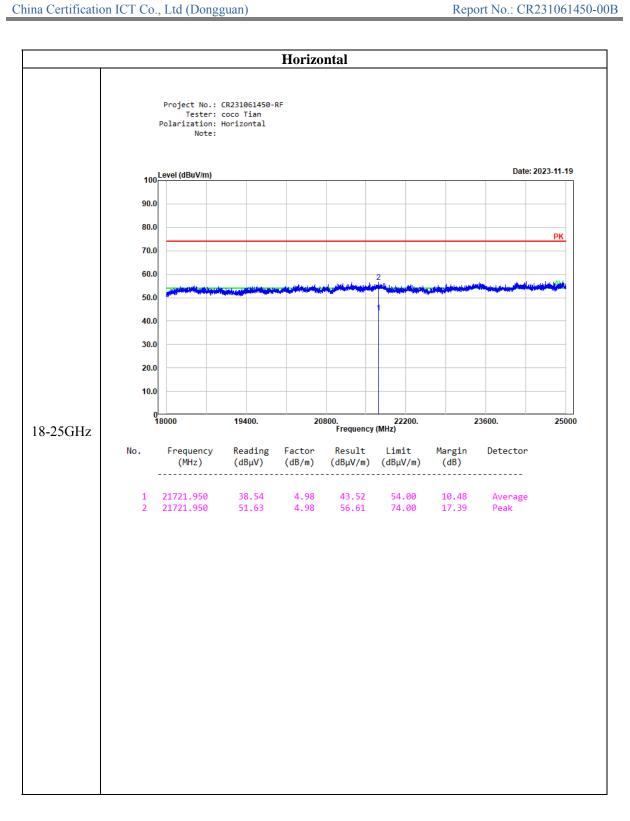
#### Report No.: CR231061450-00B

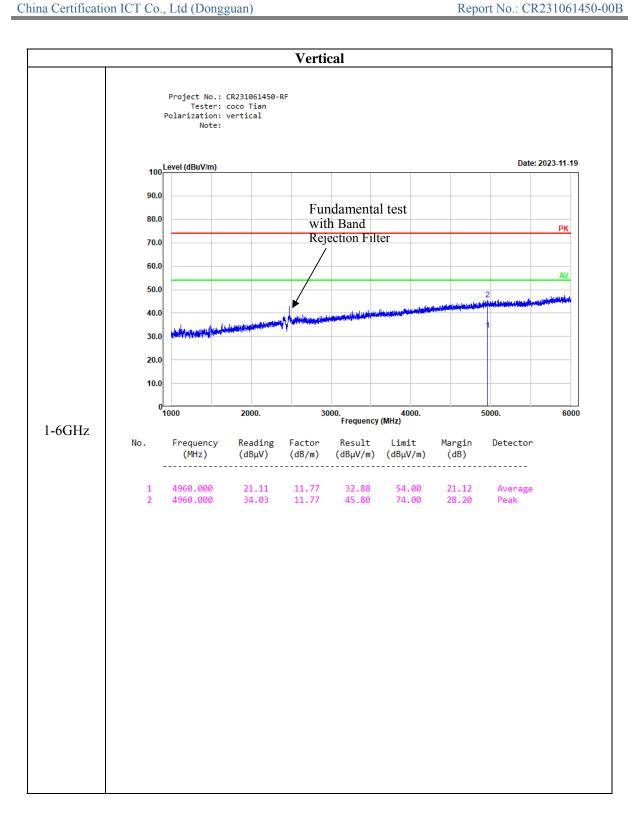
#### **Worst Radiation Spurious Emissions Margin Test plots**

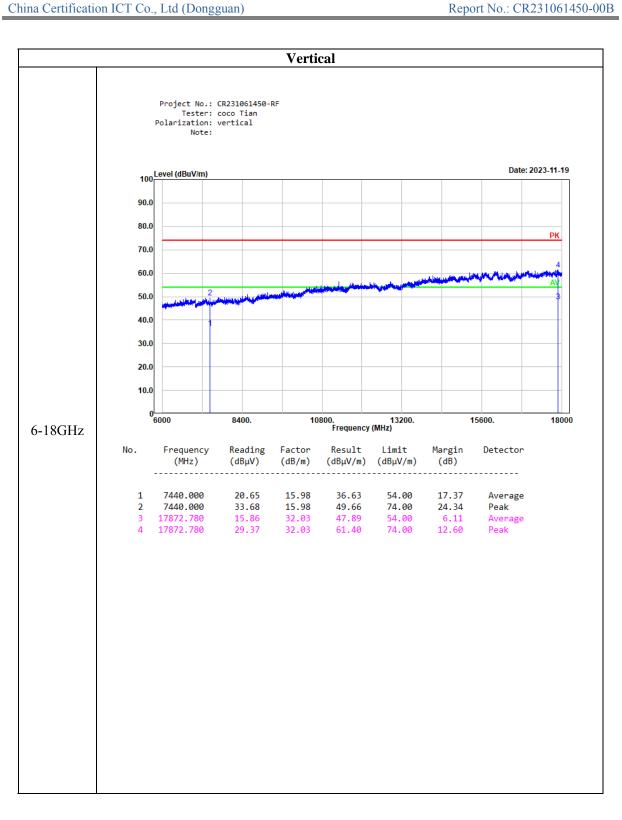
(BLE 1Mbps High Channel was the worst)

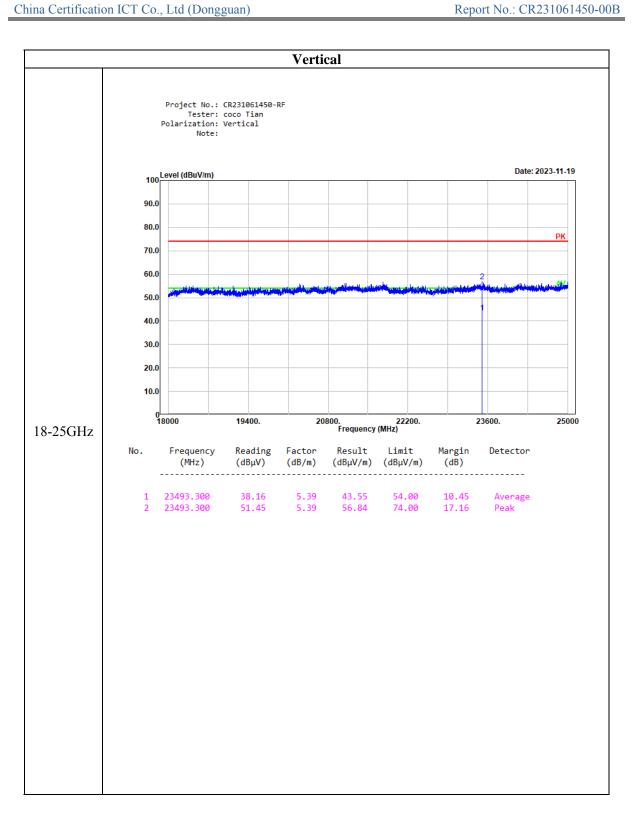












### 4.3 6 dB Emission Bandwidth

Serial Number:	2CHV-2	Test Date:	2023/11/1
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Report No.: CR231061450-00B

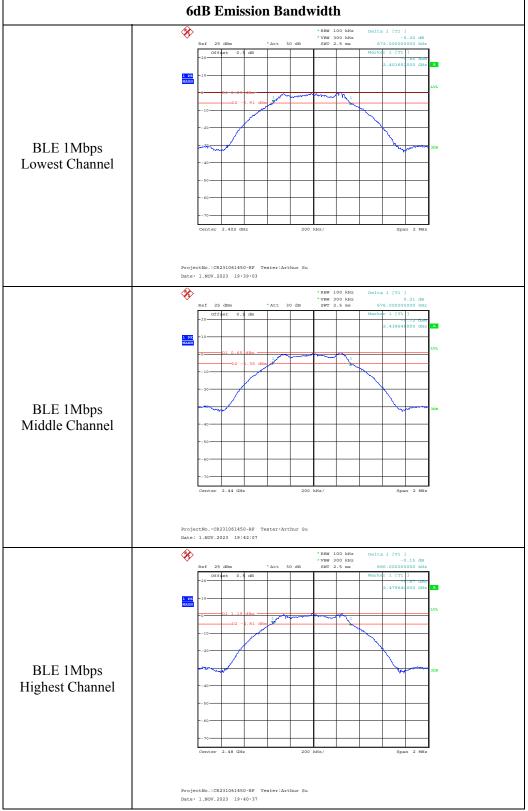
Environmental	Conditions:				
Temperature: $(^{\circ}\mathbb{C})$	25.6	Relative Humidity: (%)	53	ATM Pressure: (kPa)	101.3

### **Test Equipment List and Details:**

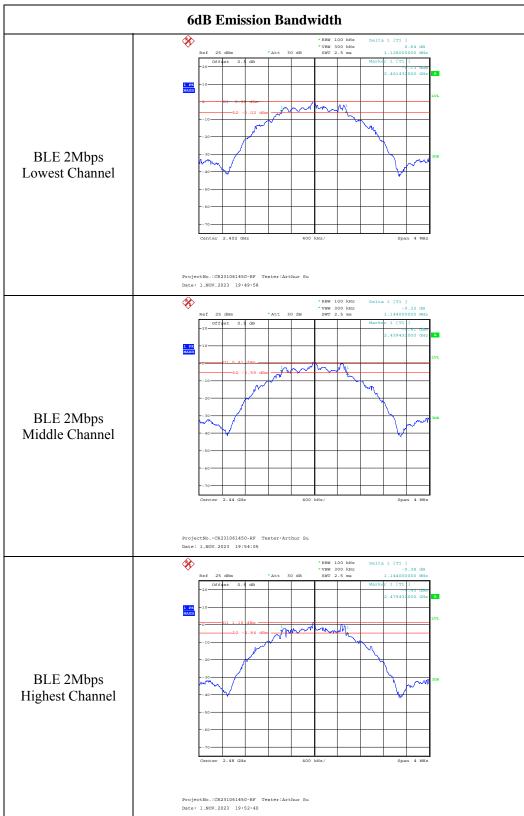
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

<sup>\*</sup> 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 Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
	2402	0.672	≥0.5
BLE 1Mbps	2440	0.676	≥0.5
	2480	0.680	≥0.5
	2402	1.128	≥0.5
BLE 2Mbps	2440	1.144	≥0.5
	2480	1.144	≥0.5



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## 4.4 Maximum Conducted Output Power

Serial Number:	2CHV-2	Test Date:	2023/11/1
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Report No.: CR231061450-00B

Environmental Conditions:					
Temperature: $(^{\circ}\mathbb{C})$	25.6	Relative Humidity: (%)	53	ATM Pressure: (kPa)	101.3

### **Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

<sup>\*</sup> 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 Modes	Test Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)
	2402	0.44	€30
BLE 1Mbps	2440	1.02	€30
	2480	1.61	€30
	2402	0.42	€30
BLE 2Mbps	2440	1.03	€30
	2480	1.65	€30

BLE 1Mbps Lowest Channel

BLE 1Mbps Middle Channel

BLE 1Mbps Highest Channel

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BLE 2Mbps Lowest Channel

BLE 2Mbps Middle Channel

BLE 2Mbps Highest Channel

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## **4.5 Maximum Power Spectral Density**

Serial Number:	2CHV-2	Test Date:	2023/11/1
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Report No.: CR231061450-00B

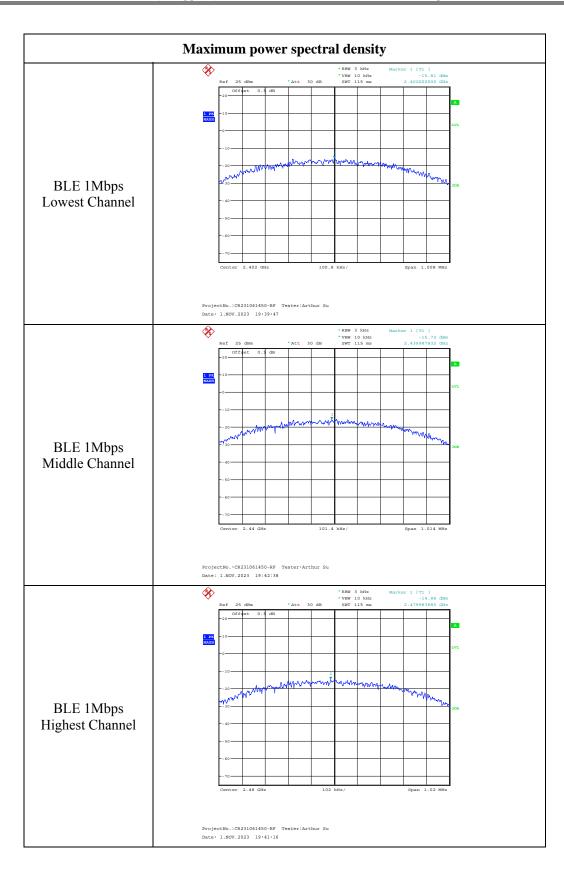
Environmental Conditions:					
Temperature: $(^{\circ}\mathbb{C})$	25.6	Relative Humidity: (%)	53	ATM Pressure: (kPa)	101.3

### **Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

<sup>\*</sup> 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 Modes	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
	2402	-15.81	≤8.00
BLE 1Mbps	2440	-15.72	≤8.00
	2480	-14.88	≤8.00
	2402	-17.71	≤8.00
BLE 2Mbps	2440	-17.16	≤8.00
	2480	-15.70	≤8.00



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## 4.6 100 kHz Bandwidth of Frequency Band Edge

Serial Number:	2CHV-2	Test Date:	2023/11/1
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

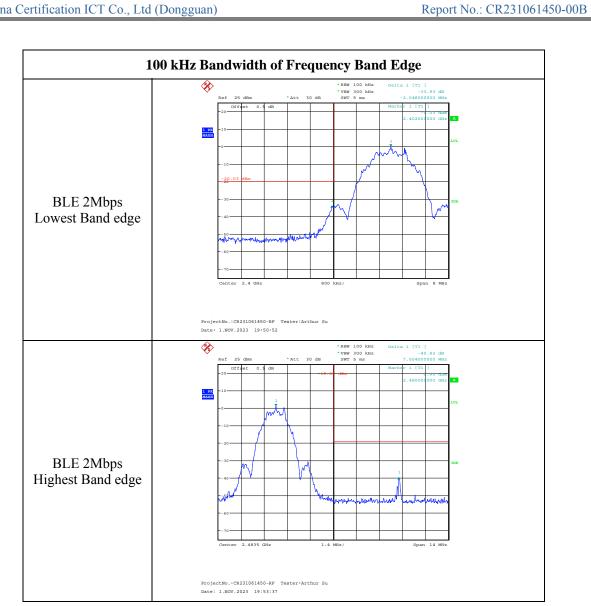
Report No.: CR231061450-00B

<b>Environmental</b>	Conditions:				
Temperature: $(^{\circ}\mathbb{C})$	25.6	Relative Humidity: (%)	53	ATM Pressure: (kPa)	101.3

**Test Equipment List and Details:** 

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

<sup>\*</sup> 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).



## 4.7 Duty Cycle

Serial Number:	2CHV-2	Test Date:	2023/11/1
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	N/A

Report No.: CR231061450-00B

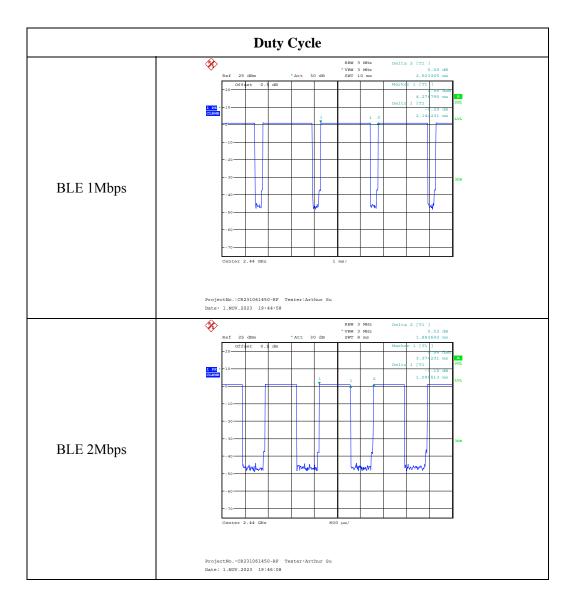
Environmental	Conditions:				
Temperature: $(^{\circ}\mathbb{C})$	25.6	Relative Humidity: (%)	53	ATM Pressure: (kPa)	101.3

### **Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

<sup>\*</sup> 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 Channel	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (kHz)
Middle	2.144	2.503	85.66	466	0.5
Middle	1.096	1.883	58.20	912	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.

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According to KDB447498 D01 General RF Exposure Guidance v06:

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $\leq 5$  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 2.0 dBm (1.58mW). [(max. power of channel, mW)/(min. test separation distance, mm)][ $\sqrt{f(GHz)}$ ] =1.58/5\*( $\sqrt{2.480}$ ) = 0.5< 3.0

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

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6. EUT PHOTOGRAPHS				
Please refer to the attachment CR231061450-EXP EUT EXTERNAL PHOTOGRAPHS and				
CR231061450-INP EUT INTERNAL PHOTOGRAPHS	AL PHOTOGRAPHS and			

# 7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231061450-00A-TSP TEST SETUP PHOTOGRAPHS.

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