



TEST REPORT

Applicant: Earfun Technology (HK) Limited

FLAT/RM A 9F, SILVERCORP INTERNATIONAL TOWER 707-713

NATHAN ROAD MONGKOK KL, HONG KONG

FCC ID: 2AVIT-SP500

Product Name: Portable Bluetooth Speaker

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: CR240105113-00B

Date Of Issue: 2024/2/26

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Test Facility

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

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

Declarations

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DOCUMENT REVISION HISTORY

Revision Number Report Number		Description of Revision	Date of Revision
1.0 CR240105113-00B		Original Report	2024/2/26

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1 Product Description for Equipment under Test (EOT)			
EUT Name:	Portable Bluetooth Speaker		
Trade Name:	EarFun		
EUT Model:	SP500		
Operation Frequency:	2402-2480 MHz		
Maximum Peak Output Power (Conducted):	7.13dBm		
Modulation Type:	GFSK		
Rated Input Voltage:	DC 20V from USB Charge Input or DC 7.2V from built-in battery		
	2GYZ-1 (for RF Conducted Test)		
Serial Number:	2GYZ-2 (for Radiated Emissions Test)		
	2GYZ-3 (for Conducted Emissions Test)		
EUT Received Date:	2024.1.23		
EUT Received Status:	Good		

Operation Frequency Detail:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	21	2444
•••			
18	2438	38	2478
19	2440	39	2480

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

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

Antenna Information Detail ▲:

Antenna Type	input impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)			
FPC Antenna	50	2400-2483.5	2.85			
The Method of §15.203 Compliance:						
Antenna was permanently attached to the unit.						

Antenna must use a unique type of connector to attach to the EUT.

Unit must be 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
USB-C Cable	/	/	Unshielded without ferrite, 0.6 Meter

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

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

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

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

1.2.2 Support Equipment List and Details

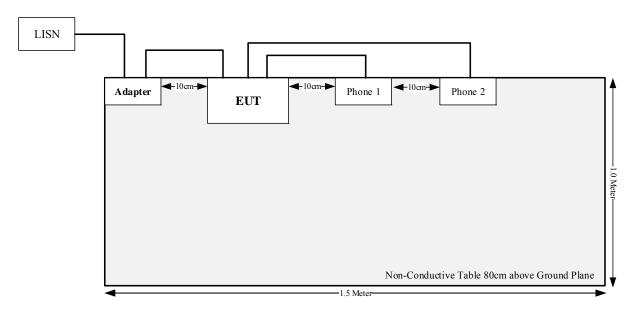
Manufacturer	Description	Model	Serial Number
ZMI	Adapter	HA712	FCHA7122002008197
DongFeng	Phone 1	Р3	UP3_BSGF187E000165
XTOUCH	Phone 2	S40	04069092900015

1.2.3 Support Cable List and Details

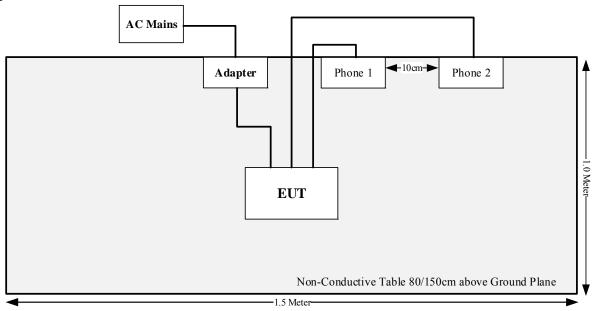
1.2.5 Support Cable List and Details						
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То	
USB-C Cable	No	No	0.6	Adapter	EUT	
USB-C Cable	No	No	0.6	Phone 1	EUT	
AUX Cable	No	No	0.8	Phone 2	EUT	

1.2.4 Block Diagram of Test Setup

AC Line Conducted Emissions:



Spurious Emissions:



1.3 Measurement Uncertainty

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

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

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.203	Antenna Requirement	PASS
FCC §15.207(a)	AC Line Conducted Emissions	PASS
FCC §15.205,§15.209,§15.247(d)	Radiated Spurious Emission	PASS
FCC §15.207(a)(2)	6dB Emission Bandwidth	PASS
FCC §15.247(b)(1)	Maximum Conducted Output Power	PASS
FCC §15.247(d)	100 kHz Bandwidth of Frequency Band Edge	PASS
FCC §15.247(d)	Conducted Spurious Emission	PASS
FCC §15.247(e)	Power Spectral Density	PASS
C63.10 §11.6	Duty Cycle	PASS
FCC §15.247(i) and §1.1310	RF Exposure	PASS

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

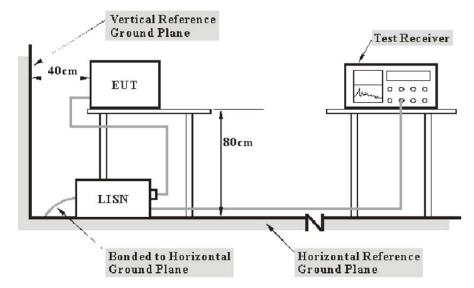
(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a $50 \,\mu\text{H}/50$ 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	

^{*}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: $1000 \,\mu\text{V}$ within the frequency band 535-1705 kHz, as measured using a 50 $\mu\text{H}/50$ 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

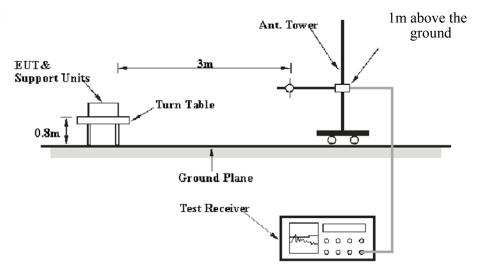
3.2.1 Applicable Standard

FCC §15.247 (d);

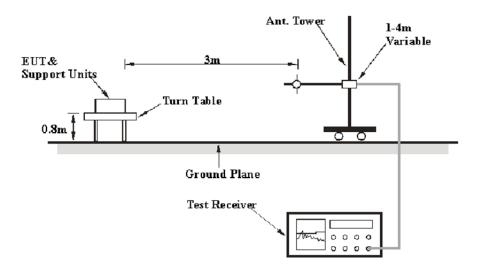
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

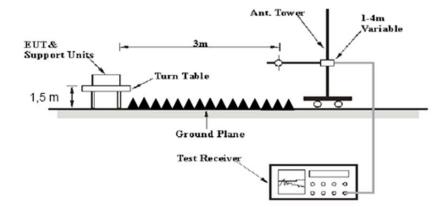
9 kHz-30MHz:



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 9 kHz to 25 GHz.

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

9 kHz -1000 MHz:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
9 kHz – 150 kHz	/	/	200 Hz	QP
9 KHZ – 130 KHZ	300 Hz	1 kHz	/	PK
150 LH 20 MH	/	/	9 kHz	QP
150 kHz – 30 MHz	10 kHz	30 kHz	/	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP
	100 kHz	300 kHz	/	PK

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.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

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

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

```
Result = Reading + Factor
Factor = Antenna Factor + Cable Loss- Amplifier Gain
```

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

Margin = Limit - Result

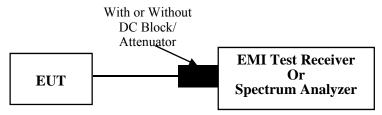
3.3 Minimum 6 dB Bandwidth

3.3.1 Applicable Standard

FCC §15.247 (a)(2)

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

3.3.2 EUT Setup



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.

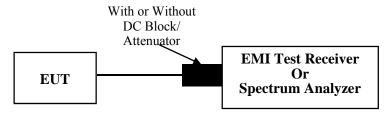
3.4 Maximum Conducted Output Power

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.

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.

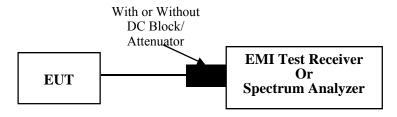
3.5 Maximum Power Spectral Density

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

- 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 $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.
- 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.

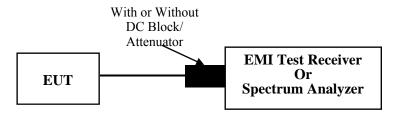
3.6 100 kHz Bandwidth of Frequency Band Edge

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)).

3.6.2 EUT Setup



3.6.3 Test Procedure

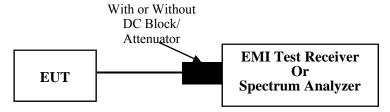
According to ANSI C63.10-2013 Section 11.11

- 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



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 µs.)

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:	2GYZ-3	Test Date:	2024/1/26
Test Site:	CE	Test Mode:	Transmitting
Tester:	David Huang	Test Result:	Pass

Environmental	Conditions:				
Temperature: $(^{\circ}\mathbb{C})$	22.3	Relative Humidity: (%)	31	ATM Pressure: (kPa)	102.2

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).

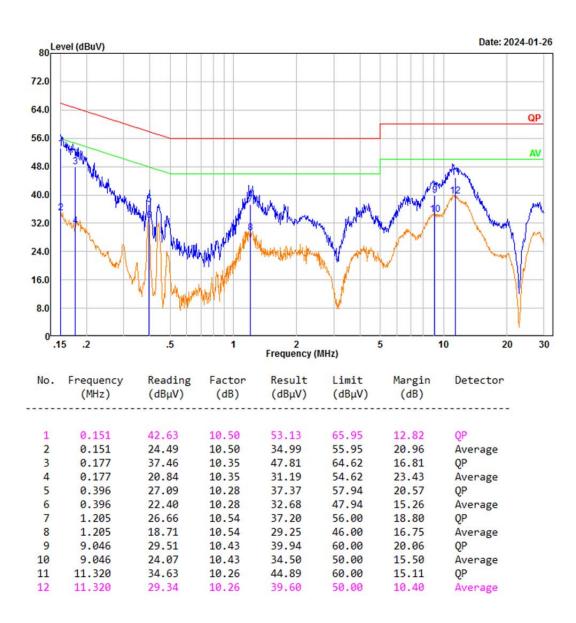
Test Data:

Please refers to following test plots.

Note: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data packets and antenna ports (if EUT with antenna diversity architecture). Tested at maximum output power mode from Pre-Scan: **BLE 1Mbps, Lowest Channel.**

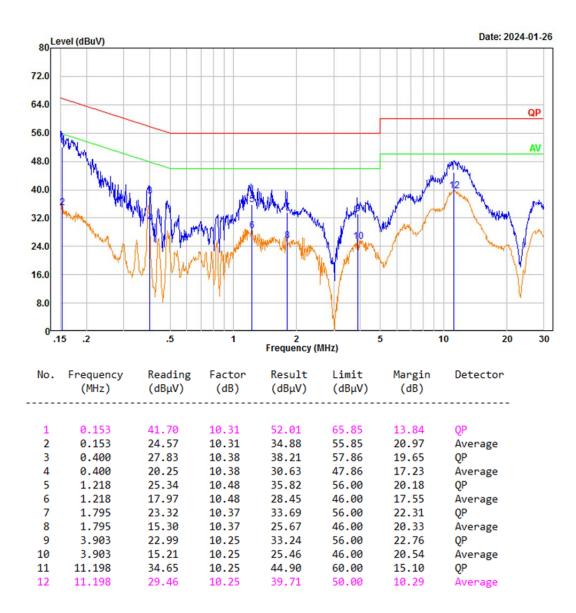
Project No.: CR240105113-RF Tester: David Huang Port: Line

Note: Transmittig(BLE)



Project No.: CR240105113-RF Tester: David Huang Port: neutral

Note: Transmittig(BLE)



4.2 Radiation Spurious Emissions

1) 9kHz-1GHz

Serial Number:	2GYZ-2	Test Date:	2024/1/27
Test Site:	966-2	Test Mode:	Transmitting
Tester:	Vic Du	Test Result:	Pass

Environmenta	l Conditions:			
Temperature: $(^{\circ}C)$	23.9	Relative Humidity: (%) 37	ATM Pressure: (kPa)	102.1

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
BACL	Loop Antenna	1313-1A	3110611	2023/12/4	2026/12/3
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0300-01	2024/1/11	2025/1/10
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0500-01	2024/1/11	2025/1/10
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

^{*} 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:

Note: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data packets and antenna ports (if EUT with antenna diversity architecture). Tested at maximum output power mode from Pre-Scan: **BLE 1Mbps, Lowest Channel.**

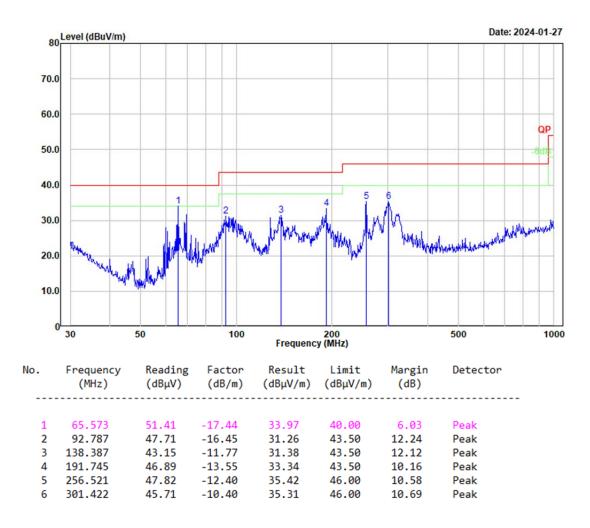
After pre-scan, the worst case is referred to the following test plots.

For Radiation Spurious Emissions from **9kHz to 30MHz**, the amplitude of spurious emissions attenuated more than 20 dB below the limit was not be recorded.

1)30MHz-1GHz:

Project No.: CR240105113-RF Tester: Vic Du Polarization: horizontal

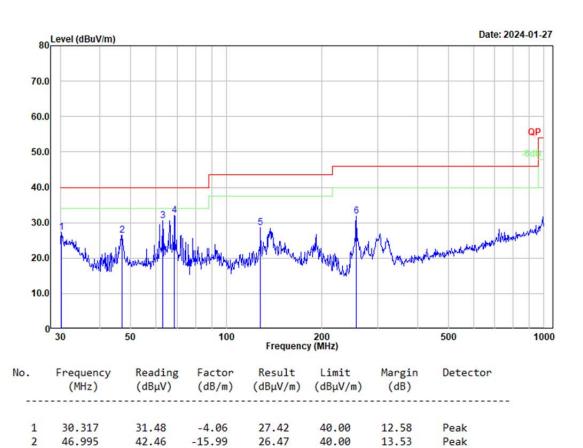
Note: Transmitting BLE



Project No.: CR240105113-RF Tester: Vic Du

Polarization: vertical

Note: Transmitting BLE



30.56

32.10

28.54

31.77

40.00

40.00

46.00

43.50

9.44

7.90

14.96

14.23

Peak

Peak

Peak

Peak

-17.52

-17.20

-11.18

-12.40

48.08

49.30

39.72

44.17

3

5

63.092

68.631

128.113 256.521

2) 1-25GHz:

Serial Number:	2GYZ-2	Test Date:	2024/1/27
Test Site:	966-1	Test Mode:	Transmitting
Tester:	coco Tian	Test Result:	Pass

Environmenta	l Conditions:			
Temperature: $(^{\mathbb{C}})$	26.3	Relative Humidity: (%) 60	ATM Pressure: (kPa)	102.1

Test Equipment List and Details:

Test Equipment List and Details.								
Manufacturer Description		Model	Serial Number	Calibration Date	Calibration Due Date			
ETS-Lindgren	Horn Antenna	3115	9912-5985	2023/12/6	2026/12/5			
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30			
MICRO-COAX	Coaxial Cable	UFA210A-1-1200- 70U300	217423-008	2024/1/15	2025/1/14			
MICRO-COAX	Coaxial Cable	UFA210A-1-2362- 300300	235780-001	2024/1/15	2025/1/14			
A.H	Preamplifier	PAM-0118P	628	2024/1/15	2025/1/14			
Audix	Test Software	E3	191218 (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			

^{*} 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 refers to the following test data and test plots.

BLE 1Mbps:

Engavonor	Receiver		Polar Factor		Result	Limit	Margin
Frequency (MHz)	Reading (dBµV)	Detector	(H/V)	(dB/m)	(dBμV/m)	(dBµV/m)	(dB)
		Low (Channel:	2402	MHz		
4804.000	49.89	PK	Н	-5.70	44.19	74.00	29.81
4804.000	36.78	AV	Н	-5.70	31.08	54.00	22.92
4804.000	50.34	PK	V	-5.70	44.64	74.00	29.36
4804.000	37.45	AV	V	-5.70	31.75	54.00	22.25
7206.000	46.76	PK	Н	-0.32	46.44	74.00	27.56
7206.000	33.59	AV	Н	-0.32	33.27	54.00	20.73
7206.000	46.65	PK	V	-0.32	46.33	74.00	27.67
7206.000	33.52	AV	V	-0.32	33.20	54.00	20.80
	Middle Cha			2440	MHz		
4880.000	48.65	PK	Н	-5.50	43.15	74.00	30.85
4880.000	35.79	AV	Н	-5.50	30.29	54.00	23.71
4880.000	49.21	PK	V	-5.50	43.71	74.00	30.29
4880.000	36.17	AV	V	-5.50	30.67	54.00	23.33
7320.000	46.15	PK	Н	0.47	46.62	74.00	27.38
7320.000	33.54	AV	Н	0.47	34.01	54.00	19.99
7320.000	46.07	PK	V	0.47	46.54	74.00	27.46
7320.000	33.38	AV	V	0.47	33.85	54.00	20.15
		High (Channel:	2480	MHz		
4960.000	49.89	PK	Н	-5.11	44.78	74.00	29.22
4960.000	36.68	AV	Н	-5.11	31.57	54.00	22.43
4960.000	48.97	PK	V	-5.11	43.86	74.00	30.14
4960.000	35.69	AV	V	-5.11	30.58	54.00	23.42
7440.000	46.15	PK	Н	0.63	46.78	74.00	27.22
7440.000	33.08	AV	Н	0.63	33.71	54.00	20.29
7440.000	45.98	PK	V	0.63	46.61	74.00	27.39
7440.000	33.21	AV	V	0.63	33.84	54.00	20.16

BLE 2Mbps:

Γ	Rece	eiver	Polar	Г 4	D14	Limit	M
Frequency (MHz)	Reading (dBµV)	Detector	(H/V)	Factor (dB/m)	Result (dBμV/m)	(dBµV/m)	Margin (dB)
		Low (Channel:	2402	MHz		
4804.000	48.76	PK	Н	-5.70	43.06	74.00	30.94
4804.000	35.79	AV	Н	-5.70	30.09	54.00	23.91
4804.000	49.21	PK	V	-5.70	43.51	74.00	30.49
4804.000	36.05	AV	V	-5.70	30.35	54.00	23.65
7206.000	46.12	PK	Н	-0.32	45.80	74.00	28.20
7206.000	33.03	AV	Н	-0.32	32.71	54.00	21.29
7206.000	46.17	PK	V	-0.32	45.85	74.00	28.15
7206.000	33.09	AV	V	-0.32	32.77	54.00	21.23
	Middle C			2440	MHz		
4880.000	48.21	PK	Н	-5.50	42.71	74.00	31.29
4880.000	35.46	AV	Н	-5.50	29.96	54.00	24.04
4880.000	48.73	PK	V	-5.50	43.23	74.00	30.77
4880.000	35.26	AV	V	-5.50	29.76	54.00	24.24
7320.000	45.73	PK	Н	0.47	46.20	74.00	27.80
7320.000	32.81	AV	Н	0.47	33.28	54.00	20.72
7320.000	45.96	PK	V	0.47	46.43	74.00	27.57
7320.000	32.86	AV	V	0.47	33.33	54.00	20.67
		High (Channel:	2480	MHz		
4960.000	48.76	PK	Н	-5.11	43.65	74.00	30.35
4960.000	35.49	AV	Н	-5.11	30.38	54.00	23.62
4960.000	48.58	PK	V	-5.11	43.47	74.00	30.53
4960.000	35.52	AV	V	-5.11	30.41	54.00	23.59
7440.000	45.67	PK	Н	0.63	46.30	74.00	27.70
7440.000	32.88	AV	Н	0.63	33.51	54.00	20.49
7440.000	46.03	PK	V	0.63	46.66	74.00	27.34
7440.000	33.87	AV	V	0.63	34.50	54.00	19.50

Worst Radiation Spurious Emissions Margin Test Plots

BLE 2Mbps highest channel was the worst:

4960.000

4960.000

2

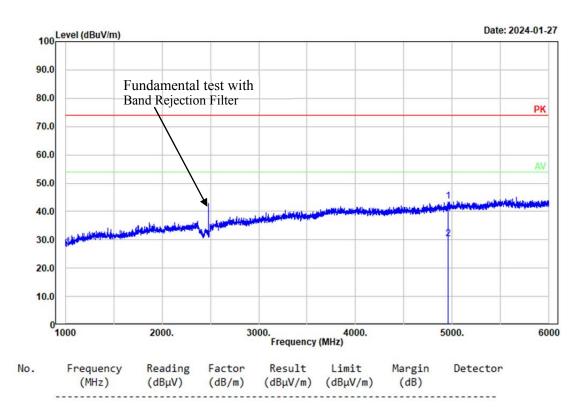
48.76

35.49

-5.11

-5.11

Project No.: CR240105113-RF Tester: coco Tian Polarization: horizontal Note: BLE



43.65

30.38

74.00

54.00

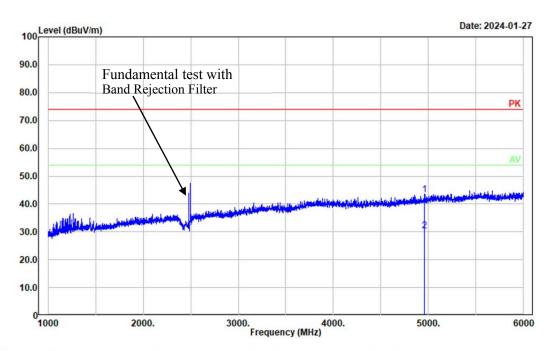
30.35

23.62

Peak

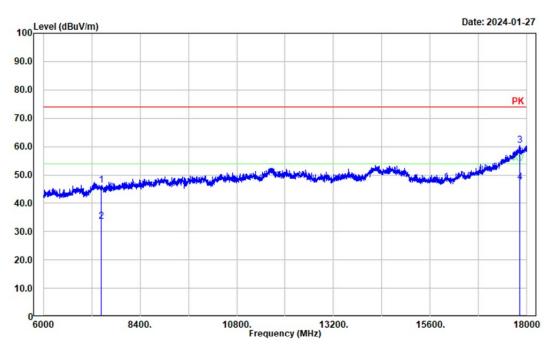
Average

Project No.: CR240105113-RF Tester: coco Tian Polarization: vertical Note: BLE



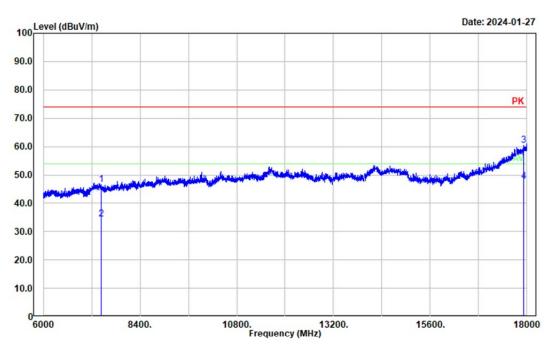
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4960.000	48.58	-5.11	43.47	74.00	30.53	Peak
2	4960.000	35.52	-5.11	30.41	54.00	23.59	Average

Project No.: CR240105113-RF Tester: coco Tian Polarization: horizontal Note: BLE



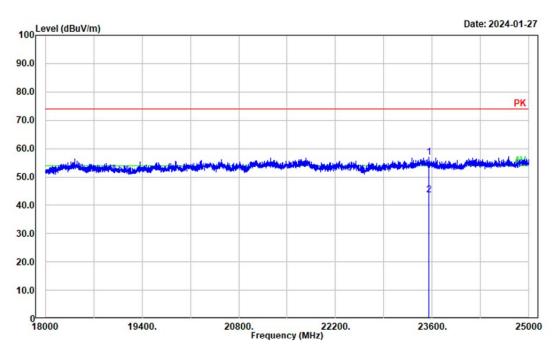
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	7440.000	45.67	0.63	46.30	74.00	27.70	Peak
2	7440.000	32.88	0.63	33.51	54.00	20.49	Average
3	17827.200	44.17	16.14	60.31	74.00	13.69	Peak
4	17827.200	31.39	16.14	47.53	54.00	6.47	Average

Project No.: CR240105113-RF Tester: coco Tian Polarization: vertical Note: BLE



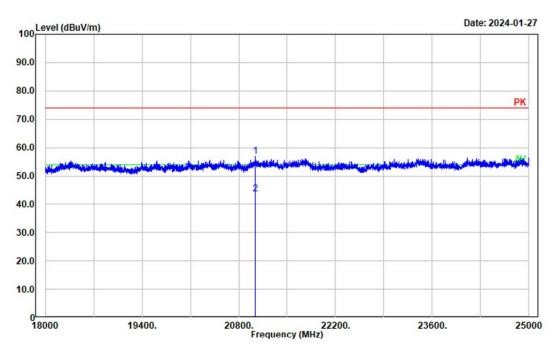
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	7440.000	46.03	0.63	46.66	74.00	27.34	Peak
2	7440.000	33.87	0.63	34.50	54.00	19.50	Average
3	17908.800	44.49	16.03	60.52	74.00	13.48	Peak
4	17908.800	31.61	16.03	47.64	54.00	6.36	Average

Project No.: CR240105113-RF Tester: coco Tian Polarization: Horizontal Note: BLE



No.	Frequency (MHz)	Reading (dBμV)		Result (dBµV/m)		Margin (dB)	Detector
1	23549.600	51.59	5.22	56.81	74.00	17.19	Peak
2	23549.600	38.30	5.22	43.52	54.00	10.48	Average

Project No.: CR240105113-RF Tester: coco Tian Polarization: Vertical Note: BLE

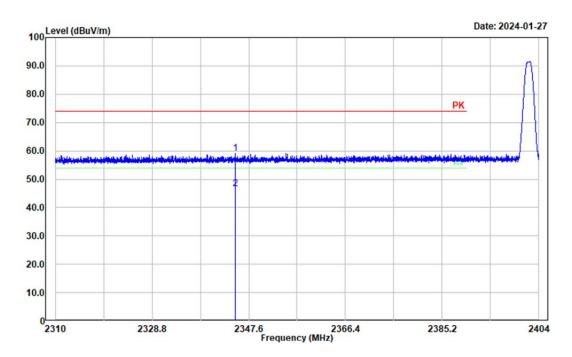


No.	Frequency (MHz)	Reading (dBμV)		Result (dBµV/m)		Margin (dB)	Detector
1	21040.800	52.23	4.63	56.86	74.00	17.14	Peak
2	21040.800	39.00	4.63	43.63	54.00	10.37	Average

Radiated Band Edge Test Plots:

BLE 1Mbps_ Lowest Channel_ Horizontal

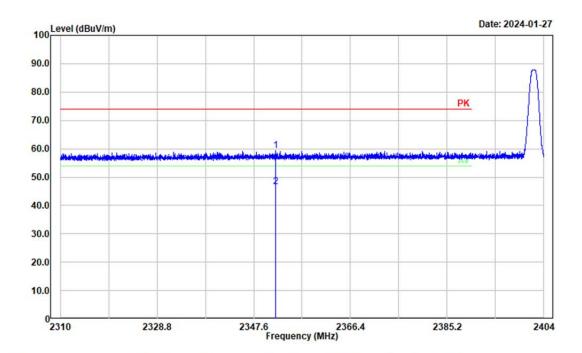
Project No.: CR240105113-RF Tester: coco Tian Polarization: Horizontal Note: BLE



No.	Frequency (MHz)	_		Result (dBµV/m)		Margin (dB)	Detector
1	2344.949	27.77	31.39	59.16	74.00	14.84	Peak
2	2344.949	15.14	31.39	46.53	54.00	7.47	Average

BLE 1Mbps_ Lowest Channel_ Vertical

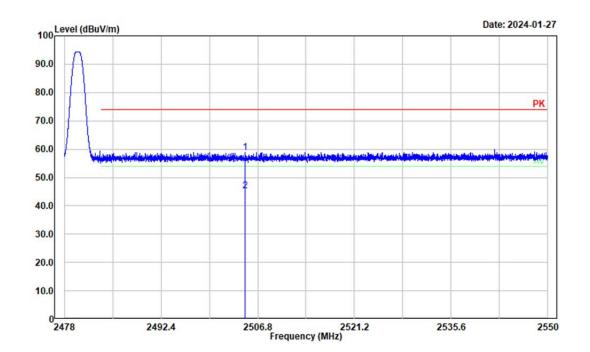
Project No.: CR240105113-RF Tester: coco Tian Polarization: vertical Note: BLE



No.	Frequency (MHz)	Reading (dBµV)	(dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
4	2254 024	27.04	24 .44	FO 25	74.00	44.75	Deal
1	2351.924	27.84	31.41	59.25	74.00	14.75	Peak
2	2351.924	15.18	31.41	46.59	54.00	7.41	Average

BLE 1Mbps_ Highest Channel_ Horizontal

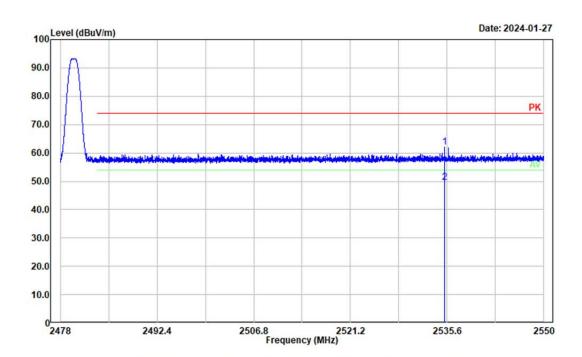
Project No.: CR240105113-RF Tester: coco Tian Polarization: Horizontal Note: BLE



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1 2	2504.914	27.35	31.53	58.88	74.00	15.12	Peak
	2504.914	13.86	31.53	45.39	54.00	8.61	Average

BLE 1Mbps_ Highest Channel_ Vertical

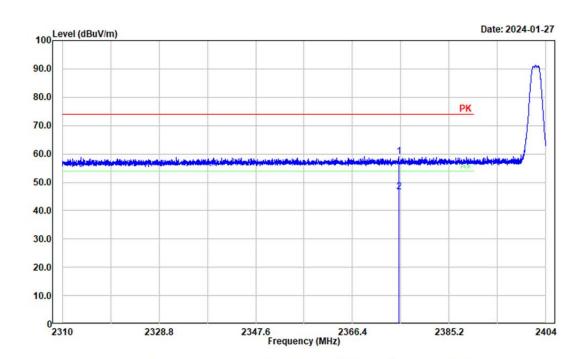
Project No.: CR240105113-RF Tester: coco Tian Polarization: vertical Note: BLE



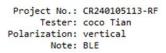
No.	Frequency (MHz)	Reading (dBµV)	(dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2535.197	30.46	31.66	62.12	74.00	11.88	Peak
2	2535.197	17.98	31.66	49.64	54.00	4.36	Average
2	2333.137	17.50	51.00	43.04	34.00	4.30	Average

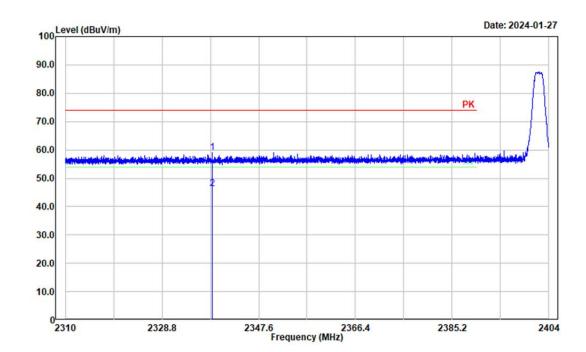
BLE 2Mbps_ Lowest Channel_ Horizontal

Project No.: CR240105113-RF Tester: coco Tian Polarization: Horizontal Note: BLE



No.	(MHz)	(dB _µ V)	(dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2375.443	27.57	31.44	59.01	74.00	14.99	Peak
2	2375.443	15.09	31.44	46.53	54.00	7.47	Average

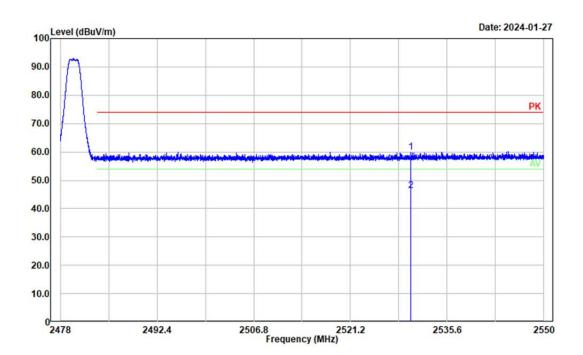




(MHz)	Reading (dBµV)	(dB/m)	Result (dBμV/m)		Margin (dB)	Detector
2338.557	27.81	31.35	59.16	74.00	14.84	Peak
	15.00	31.35	46.35		7.65	Average
	Frequency (MHz) 	(MHz) (dBμV) 2338.557 27.81	(MHz) (dBμV) (dB/m) 2338.557 27.81 31.35	(MHz) (dBμV) (dB/m) (dBμV/m) 2338.557 27.81 31.35 59.16	(MHz) (dBμV) (dB/m) (dBμV/m) (dBμV/m) 2338.557 27.81 31.35 59.16 74.00	(MHz) (dBμV) (dB/m) (dBμV/m) (dBμV/m) (dB) 2338.557 27.81 31.35 59.16 74.00 14.84

BLE 2Mbps_ Highest Channel_ Horizontal

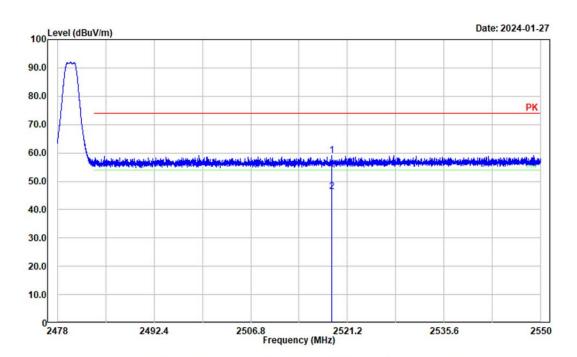
Project No.: CR240105113-RF Tester: coco Tian Polarization: Horizontal Note: BLE



No.	Frequency (MHz)	Reading $(dB\mu V)$	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2530.200	28.32	31.64	59.96	74.00	14.04	Peak
2	2530.200	14.71	31.64	46.35	54.00	7.65	Average

BLE 2Mbps_ Highest Channel_ Vertical

Project No.: CR240105113-RF Tester: coco Tian Polarization: vertical Note: BLE



No.	Frequency (MHz)	Reading $(dB\mu V)$	(dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2518.896	27.61	31.59	59.20	74.00	14.80	Peak
2	2518.896	14.76	31.59	46.35	54.00	7.65	Average

4.3 6dB Emission Bandwidth

Test Information:

Serial No.:	2GYZ-1	Test Date:	2024/02/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature:	26.7	Relative Humidity:	61	ATM Pressure:	101
(° C)	20.7	(%)	01	(kPa)	101

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
R&S	Spectrum Analyzer	FSU26	100147	2023/03/31	2024/03/30	
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A	

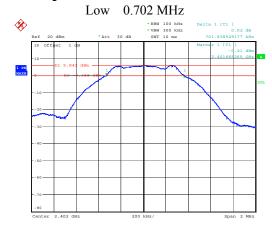
^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

BLE 1Mbps

Mode	Value (MHz)	Limit (MHz)	Result
Low	0.702	0.5	Pass
Middle	0.699	0.5	Pass
High	0.711	0.5	Pass

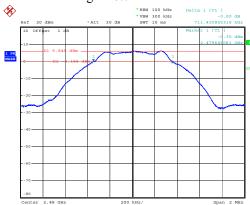
Mode	Value (MHz)	Limit (MHz)	Result
Low	1.173	0.5	Pass
Middle	1.170	0.5	Pass
High	1.167	0.5	Pass



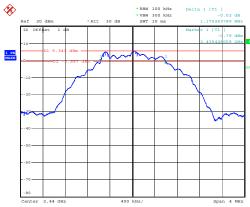
Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:04:16

BLE 1Mbps

High 0.711 MHz



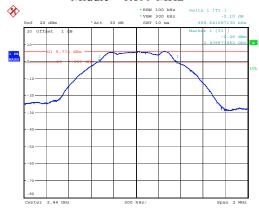
Middle 1.170 MHz



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:28:52

BLE 1Mbps

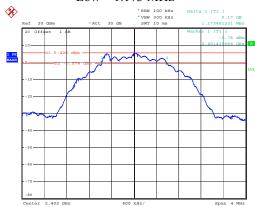
Middle 0.699 MHz



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:05:52

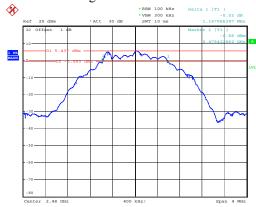
BLE 2Mbps

Low 1.173 MHz



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FR8.2024 11:25:35 BLE 2Mbps

High 1.167 MHz



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:32:02

4.4 Maximum Conducted Output Power

Test Information:

Serial No.:	2GYZ-1	Test Date:	2024/02/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature:	26.7	Relative Humidity:	61	ATM Pressure:	101
(°C)		(%)		(kPa)	

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2023/03/31	2024/03/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

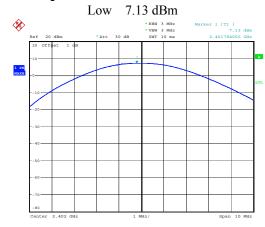
^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

BLE 1Mbps

Mode	Value (dBm)	Limit (dBm)	Result
Low	7.13	30.00	Pass
Middle	7.04	30.00	Pass
High	7.12	30.00	Pass

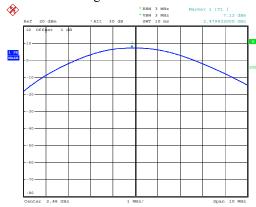
Mode	Value (dBm)	Limit (dBm)	Result
Low	7.01	30.00	Pass
Middle	6.92	30.00	Pass
High	6.98	30.00	Pass



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:02:42

BLE 1Mbps

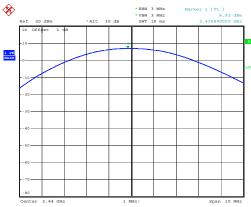
High 7.12 dBm



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:11:49

BLE 2Mbps

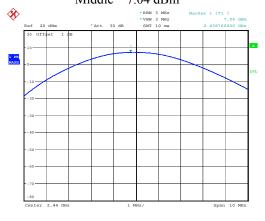
Middle 6.92 dBm



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li
Date: 4.FEB.2024 11:28:26

BLE 1Mbps

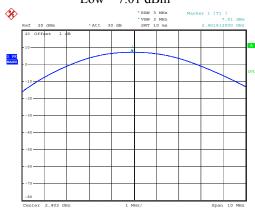
Middle 7.04 dBm



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:05:30

BLE 2Mbps

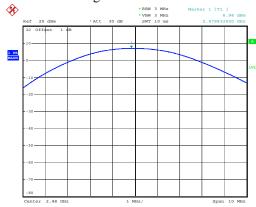
Low 7.01 dBm



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:24:07

BLE 2Mbps

High 6.98 dBm



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li
Date: 4.FEB.2024 11:30:23

4.5 100 kHz Bandwidth of Frequency Band Edge

Test Information:

Serial No.:	2GYZ-1	Test Date:	2024/02/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature:	26.7	Relative Humidity:	61	ATM Pressure:	101
(°C)	20.7	(%)	01	(kPa)	101

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2023/03/31	2024/03/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

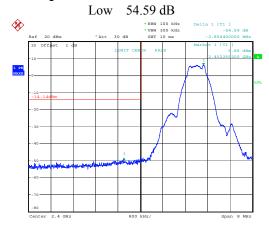
^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

BLE 1Mbps

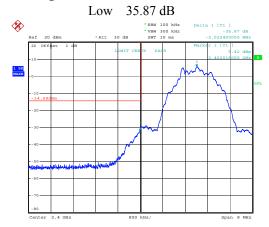
Mode	Value (dB)	Limit (dB)	Result
Low	54.59	20.00	Pass
High	57.40	20.00	Pass

Mode	Value (dB)	Limit (dB)	Result
Low	35.87	20.00	Pass
High	57.13	20.00	Pass



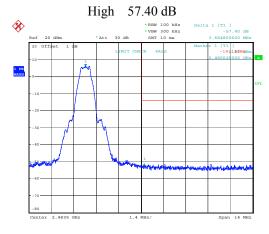
Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:03:57

BLE 2Mbps



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:25:11

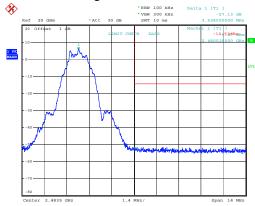
BLE 1Mbps



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:13:01

BLE 2Mbps





Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:31:33

4.6 Power Spectral Density

Test Information:

Serial No.:	2GYZ-1	Test Date:	2024/02/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature:	26.7	Relative Humidity:	61	ATM Pressure:	101
(°C)	20.7	(%)	61	(kPa)	101

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2023/03/31	2024/03/30
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).

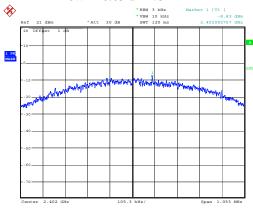
Test Data:

BLE 1Mbps

=== 11.12 ps			
Mode	Value Limit (dBm/3kHz) (dBm/3kHz)		Result
Low	-8.83	8.00	Pass
Middle	-8.94	8.00	Pass
High	-8.78	8.00	Pass

Mode	Value (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low	-12.46	8.00	Pass
Middle	-12.65	8.00	Pass
High	-12.40	8.00	Pass

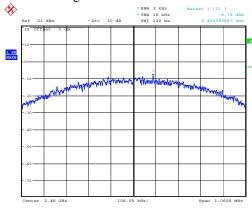
Low -8.83 dBm/3kHz



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:05:02

BLE 1Mbps

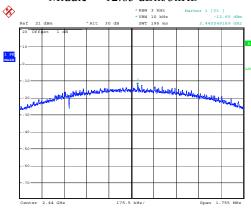
High -8.78 dBm/3kHz



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:09:31

BLE 2Mbps

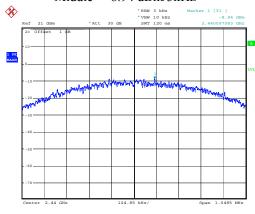
Middle -12.65 dBm/3kHz



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:29:57

BLE 1Mbps

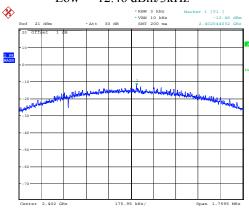
Middle -8.94 dBm/3kHz



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:06:41

BLE 2Mbps

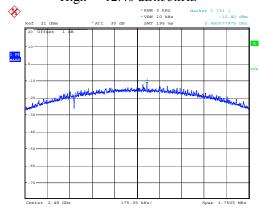
Low -12.46 dBm/3kHz



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:26:19

BLE 2Mbps

High -12.40 dBm/3kHz



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 11:32:54

4.7 Duty Cycle

Test Information:

Serial No.:	2GYZ-1	Test Date:	2024/02/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature:	26.7	Relative Humidity:	61	ATM Pressure:	101
(°C)	20.7	(%)	01	(kPa)	101

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2023/03/31	2024/03/30
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:

BLE 1Mbps

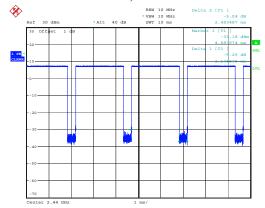
Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	1/Ton (Hz)	VBW Setting (kHz)
Middle	2.147	2.483	86.47	466	0.50

BLE 2Mbps

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	1/Ton (Hz)	VBW Setting (kHz)
Middle	1.122	1.267	88.56	891	1

Duty Cycle = Ton/(Ton+Toff)*100%

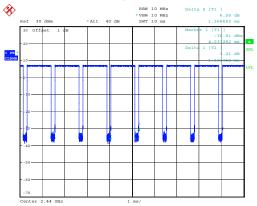
Middle 2.147 ms,2.483ms



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 10:51:27

BLE 2Mbps

Middle 1.122 ms,1.267ms



Comment: ProjectNo.:CR240105113-RF Tester:Lingling Li Date: 4.FEB.2024 10:53:50

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 \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 ≤ 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 ≤ 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

FCC ID: 2AVIT-SP500

For BT:

The max conducted power including tune-up tolerance is 7.5dBm (5.62 mW). [(max. power of channel, mW)/(min. test separation distance, mm)][$\sqrt{f(GHz)}$] =5.62/5*($\sqrt{2}$.480) = 1.8< 3.0

For BLE:

The max conducted power including tune-up tolerance is 7.5dBm (5.62 mW). [(max. power of channel, mW)/(min. test separation distance, mm)][$\sqrt{f(GHz)}$] =5.62/5*($\sqrt{2}$.480) = 1.8< 3.0

Note: 1. The max conducted power including tune-up tolerance was provided by manufacturer.
2. BT can't transmit simultaneously with BLE.

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

6. EUT PHOTOGRAPHS

Please refer to the attachment CR240105113-EXP EUT EXTERNAL PHOTOGRAPHS and CR240105113-INP EUT INTERNAL PHOTOGRAPHS

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR240105113-00B-TSP TEST SETUP PHOTOGRAPHS.

==== END OF REPORT ====