

Test Report

Applicant	:	PEAG, LLC dba JLab Audio
Address	:	5927 LANDAU CT, Carlsbad, CA 92008, United States
Product Name	:	True Wireless Earbuds
Brand Mark	:	المعادمة المحالي (
Model	:	Epic Open Sport
FCC ID	:	2AHYV-EOPSP
Report Number	:	BLA-EMC-202501-A5504
Date of Receipt	:	Jan. 15, 2025
Date of Test	:	Jan. 15, 2025 to Jan. 24, 2025
Test Standard	:	47 CFR Part 15, Subpart C 15.247
Test Result	:	Pass

Compiled by:

Hugh Review by: Sweet, Approved by: 13/14. Then Issued Date: Jan 24, 2025

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BlueAsia of Technical Services(Shenzhen) Co.,Ltd

Address: Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District elsyania Shenzhen, Guangdong Province, China



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7	Арр	endix A	
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	7.2	Maximum Conducted Output Power	
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		·	-



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7.5	Maximum Power Spectral Density Level		
7.6	Band Edge		
7.7	Conducted RF Spurious Emission		
Appendi	x B: photographs of test setup		
Appendi	x C: photographs of EUT		

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Revise Record

Version No.	Date	Description
01	Jan. 24, 2025	Original

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General information 1

1.1 General information

Applicant	PEAG, LLC dba JLab Audio
Address	5927 LANDAU CT, Carlsbad, CA 92008, United States
Manufacturer	GuangDong Simpreal Intelligent Technology Co., Ltd
	Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13, DongCheng District, DongGuan City, GuangDong Province, P.R. China
Factory	GuangDong Simpreal Intelligent Technology Co., Ltd
	Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13, DongCheng District, DongGuan City, GuangDong Province, P.R. China
1.2 General description	of EUT

1.2 General description of EUT

Product name	True Wireless Earbuds
Model no.	Epic Open Sport
Series model	N/A
Test engineer sample no	BLA-EMC-202501-A55-left
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Rate data:	1Mbps; 2Mbps
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	Internal antenna
Antenna Gain:	-1.86 dBi (Provided by customer)
Power supply or adapter information	Earphone: DC3.7V Base: DC3.7V
Hardware Version	V1.2
Software Version	V2.3
Note: For a more detailed of the applicant and/or manual the second seco	description, please refer to Specification or User's Manual supplied by facturer.

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2 Test summary

No.	Test item	FCC standard	Test Method(Clause)	Result
1	Antenna Requirement	§15.203	N/A	Pass
2	Conducted Emissions at AC Power Line (150kHz-30MHz)	§15.207	ANSI C63.10-2013 Clause 6.2	Pass
3	Conducted Peak Output Power	§15.247(b)(3)	ANSI C63.10-2013 Cluase 7.8.5	Pass
4	Minimum 6dB Bandwidth	§15.247a(2)	ANSI C63.10-2013 Cluase 11.8.1	Pass
5	Power Spectrum Density	§15.247(d)	ANSI C63.10-2013 Cluase 11.10.2	Pass
6	Conducted Band Edges Measurement	§15.247(d)	ANSI C63.10-2013 Cluase 11.13	Pass
7	Conducted Spurious Emissions	§15.247(d)	ANSI C63.10-2013 Cluase 11.11	Pass
8	Radiated Spurious Emissions	§15.209 §15.247(d)	ANSI C63.10-2013 Cluase 6.4,6.5,6.6	Pass
9	Radiated Emissions which fall in the restricted bands	§15.209 §15.247(d)	ANSI C63.10-2013 Cluase 11.12	Pass

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3 Test Configuration

3.1 Test mode

Test Mode Note 1	Description
TX	Keep the EUT in continuously transmitting with modulation mode.
RX	Keep the EUT in receiving mode
TX Low channel	Keep the EUT in continuously transmitting mode in low channel
TX middle channel	Keep the EUT in continuously transmitting mode in middle channel
TX high channel	Keep the EUT in continuously transmitting mode in high channel

Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use; the EUT was operated in the engineering mode ^{Note 2} to fix the TX or Rx frequency that was for the purpose of the measurements.

Note 2: Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

Power level setup in software					
Test Software Name	Test Software Name FCC Assist 1.0.4				
Mode	Channel Frequency (MHz) Soft Set				
	CH00	2402			
GFSK	CH20	2442	TX level : 10		
	CH39	2480			

Run Software FCC Assist 1.0.4 语言(L) 帮助(H) 串口设置 打开设备(COM3)成功 设备(COM3)关闭 打开设备(COM3)成功 reply data: 04 0E 04 01 01 FC 00 return code: 0x0 配置数据设法成功! 串 口: COM3(USB-SERIAL CH 波特室: 数据位: 校验位: reply data: 04 0E 04 01 01 FC 00 return code: 0x0 停止位: 潇 控: NoFlow 配置数据发送 reply data: 04 0E 04 01 01 FC 00 return code: 0x0 关闭 BR/EDR BLE 計算数据发送成功! reply data: 04 0E 04 01 01 FC 00 return code: 0x0 MODE TX • Channel 78 mit Power 10 . Packet_Type 3-DH5 • Hopping ON • Data_Types Pn9 • Send configuration 清除日志

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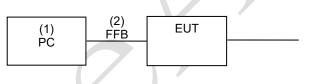
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
3.3 Test channel					•	60	

3.2 Operation Frequency each of channel

3.3 Test channel

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2442MHz
The Highest channel	2480MHz

3.4 Configuration diagram of EUT



Support equipment

(1) PC Lenovo E460C N/A	N/A
(2) Fixed frequency board N/A N/A N/A	N/A

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3.5 Auxiliary equipment

Device Type	Manufacturer	Model Name	Serial No.	Remark		
PC	Lenovo	E460C	N/A	From lab (No.BLA-ZC-BS-2022005)		
Note: "" mean no any auxiliary device during testing.						

3.6 Test environment

Environment	Temperature	Voltage
Normal	25 °C	DC 3.7V

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4 Laboratory information

4.1 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.			
Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District,			
, (441000.	Shenzhen, Guangdong Province, China			
CNAS accredited No.:	L9788			
A2LA Cert. No.:	5071.01			
FCC Designation No.:	CN1252			
ISED CAB identifier No.:	CN0028			
Telephone:	+86-755-28682673			
FAX:	+86-755-28682673			

4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Parameter	Expanded Uncertainty
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30Mz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1.5 dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	±3.0 dB
Temperature	±3 °C
Supply voltages	±3 %
Time	±5 %

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5 Test equipment

RF conducted

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-003-003	Shield room	5*3*3	SKET	N/A	2023/11/16	2025/11/15
BLA-EMC-016	Signal Generator	N5182A	Agilent	MY52420 567	2024/06/28	2025/06/27
BLA-EMC-038	Spectrum	N9020A	Agilent	MY49100 060	2024/08/08	2025/08/07
BLA-EMC-042	Power sensor	RPR3006W	DARE	14I00889 SN042	2024/08/08	2025/08/07
BLA-EMC-044	Radio communication tester	CMW500	R&S	132429	2024/08/08	2025/08/07
BLA-EMC-064	Signal Generator	N5182B	KEYSIGHT	MY58108 892	2024/06/28	2025/06/27
BLA-EMC-079	Spectrum	N9020A	Agilent	MY54420 161	2024/08/08	2025/08/07
BLA-EMC-088	Audio Analyzer	ATS-1	Audio Precision	ATS1410 94	2024/06/28	2025/06/27

Radiated Spurious Emissions (Below 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-002-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-002-02	Control room	966 control room	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2024/08/08	2025/08/07
BLA-EMC-043	Loop antenna	FMZB1519B	Schwarzbeck	00102	2024/06/29	2026/06/28
BLA-EMC-065	Broadband antenna	VULB9168	Schwarzbeck	01065P	2024/06/29	2026/06/27
BLA-XC-01	Coaxial Cable	N/A	BlueAsia	V01	N/A	N/A
BLA-XC-02	Coaxial Cable	N/A	BlueAsia	V02	N/A	N/A

Conducted Emissions

Equipment	Name	Model	Manufactu re	S/N	Cal. Date	Due. Date
BLA-EMC-003-001	Shield room	8*3*3	SKET	N/A	2023/11/16	2025/11/15
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2024/08/08	2025/08/07
BLA-EMC-011	LISN	ENV216	R&S	101372	2024/08/08	2025/08/07
BLA-EMC-033	Impedance transformer	DC-2GHz	DFXP	N/A	2024/06/28	2025/06/27
BLA-EMC-041	LISN	AT166-2	ATTEN	AKK180600 0003	2024/08/08	2025/08/07
BLA-EMC-045	Impedance stable network	ISNT8-cat 6	TESEQ	53580	2024/08/08	2025/08/07
BLA-EMC-095	Single-channel vehicle artificial power network	NNBM 8124	Schwarzbe ck	01045	2024/06/28	2025/06/27
BLA-EMC-096	Single-channel vehicle artificial power network	NNBM 8124	Schwarzbe ck	01075	2024/06/28	2025/06/27
BLA-XC-05	Coaxial Cable	N/A	BlueAsia	V05	N/A	N/A

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Radiated Spurious Emissions (Above 1GHz)

•		,				
Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-001-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2023/11/16	2026/11/15
BLA-EMC-001-02	Control Room	966 control room	SKET	N/A	2023/11/16	2025/11/15
BLA-EMC-008	Spectrum	FSP40	R&S	100817	2024/08/08	2025/08/07
BLA-EMC-012	Broadband antenna	VULB9168	Schwarzbeck	00836 P:00227	2022/10/12	2025/10/11
BLA-EMC-013	Horn Antenna	BBHA9120D	Schwarzbeck	01892	2024/06/29	2026/06/28
BLA-EMC-014	Amplifier	PA_000318G- 45	SKET	PA201804 3003	2024/08/08	2025/08/07
BLA-EMC-046	Filter bank	2.4G/5G Filter bank	SKET	N/A	2024/06/28	2025/06/27
BLA-EMC-061	Receiver	ESPI7	R&S	101477	2024/06/28	2025/06/27
BLA-EMC-066	Amplifier	LNPA_30M01 G-30	SKET	SK202106 0801	2024/06/28	2025/06/27
BLA-EMC-086	Amplifier	LNPA_18G40 G-50dB	SKET	SK202207 1301	2024/06/28	2025/06/27
BLA-EMC-087	Horn Antenna	BBHA 9170	Schwarzbeck	1106	2024/06/29	2026/06/28
BLA-XC-03	Coaxial Cable	N/A	BlueAsia	V03	N/A	N/A
BLA-XC-04	Coaxial Cable	N/A	BlueAsia	V04	N/A	N/A

Test Software Record:

Software No.	Software Name	Manufacture	Software version	Test site
BLA-EMC-S001	EZ-EMC	EZ	EEMC-3A1+	RE
BLA-EMC-S002	EZ-EMC	EZ	EEMC-3A1+	RE
BLA-EMC-S003	EZ-EMC	EZ	EEMC-3A1+	CE
BLA-EMC-S010	MTS 8310	MW	2.0.0.0	RF
BLA-EMC-S014	Bluetooth and WiFi Test System	Tonscend	2.5.77.0418	RF

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6 Test result

6.1 Antenna requirement

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

6.1.1 Requirement

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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of a so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -1.86 dBi.

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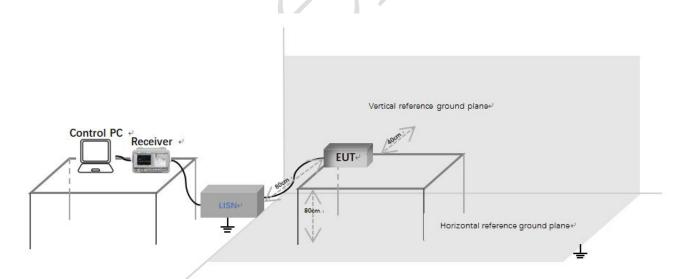
6.2 Conducted emissions at AC power line (150 kHz-30 MHz)

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	TX

6.2.1 Limit

	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.					

6.2.2 Test setup



Description of test setup connection:

- a) Connect the control PC to the receiver through a USB to GPIB cable;
- b) The receiver is connected to the LISN through a coaxial line;
- c) Connect the power port of LISN to the EUT.

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6.2.3 Procedure

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

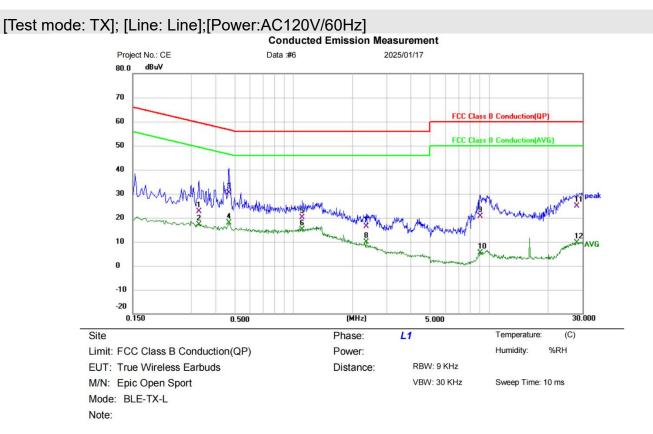
LISN=Read Level+ Cable Loss+ LISN Factor

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6.2.4 Test data



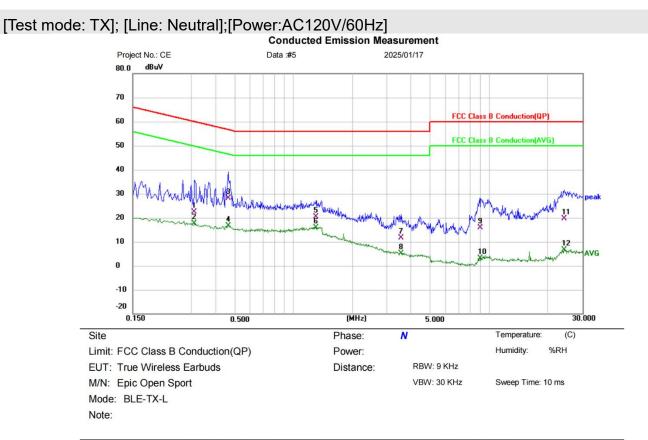
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		0.3260	12.75	9.87	22.62	59.55	-36.93	QP			
2		0.3260	7 <mark>.1</mark> 5	9.87	17.02	49.55	-32.53	AVG			
3	*	0.4660	20.63	9.84	30.47	56.58	-26.11	QP			
4		0.4660	8.14	9.84	17.98	46.58	-28.60	AVG			
5		1.1100	10.26	9.80	20.06	56.00	-35.94	QP			
6		1.1100	5.32	9.80	15.12	46.00	-30.88	AVG			
7		2.3540	6.43	9.97	16.40	56.00	-39.60	QP			
8		2.3540	0.01	9.97	9.98	46.00	-36.02	AVG			
9		9.0020	10.13	10.51	20.64	60.00	-39.36	QP			
10		9.0020	- <mark>5.1</mark> 5	10.51	5.36	50.00	-44.64	AVG			
11		28.0620	11.58	13.20	24.78	60.00	-35.22	QP			
12		28.0620	-3.68	13.20	9.52	50.00	-40.48	AVG			
*:Ma		m data ESPI	x:Over lim	it !:over	margin	Spectrum	Analyzer:	ES	PI		(Reference Only

Test Result: Pass

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		0.3100	12.56	9.84	22.40	59.97	-37.57	QP			
2		0.3100	7.70	9.84	17.54	49.97	- <mark>32.4</mark> 3	AVG			
3	*	0.4620	18.29	9.79	28.08	56.66	-28.58	QP			
4		0.4620	6.77	9.79	16.56	46.66	-30.10	AVG			
5		1.2980	10.54	9.75	20.29	56.00	-35.71	QP			
6		1.2980	6.14	9.75	15.89	46.00	-30.11	AVG			
7		3.5620	1.51	10.00	11.51	56.00	-44.49	QP			
8		3.5620	-4.87	10.00	5.13	46.00	-40.87	AVG			
9		9.0460	5.29	10.55	15.84	60.00	-44.16	QP			
10		9.0460	-7.46	10.55	3.09	50.00	-46.91	AVG			
11		24.2060	6.56	13.04	19.60	60.00	-40.40	QP			
12		24.2060	-6.34	13.04	6.70	50.00	- <mark>4</mark> 3.30	AVG			
*:Ma	ximu	m data	x:Over lim	it !:over	margin						(Reference Onl
Recei	ver:	ESPI_	1			Spectrum	Analyzer:	ES	PI		

Spectrum Analyzer:

Test Result: Pass

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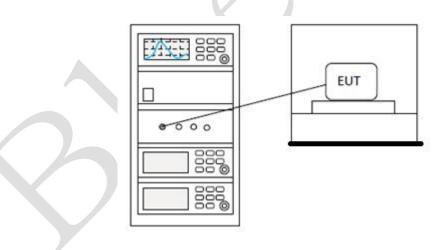
6.3 Conducted peak output Power

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	ТХ

6.3.1 Limit

6.3.1 Limit	
Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

6.3.2 Test setup



6.3.3 Test data

Pass: Please refer to appendix A for details

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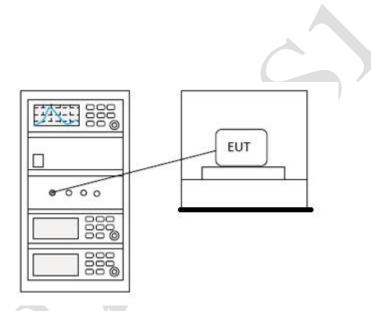
6.4 Minimum 6dB bandwidth

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	ТХ

6.4.1 Limit

≥500 kHz

6.4.2 Test setup



6.4.3 Test data

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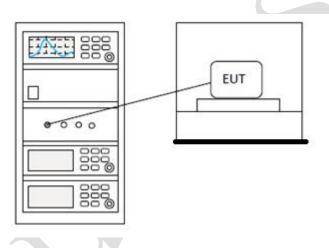
6.5 Power spectrum density

Test Standard	47 CFR Part 15, Subpart C 15.247			
Test Method	ANSI C63.10 (2013) Section 11.10.2			
Test Mode (Pre-Scan)	ТХ			
Test Mode (Final Test)	ТХ			

6.5.1 Limit

≤8dBm in any 3 kHz band during any time interval of continuous transmission

6.5.2 Test setup



6.5.3 Test data

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Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	ТХ

6.6 Conducted Band Edges Measurement

6.6.1 Limit

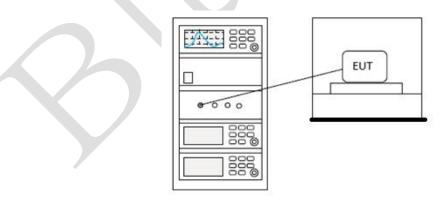
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

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)).

6.6.2 Test setup



6.6.3 Test data

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Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	ТХ

6.7 Conducted spurious emissions

6.7.1 Limit

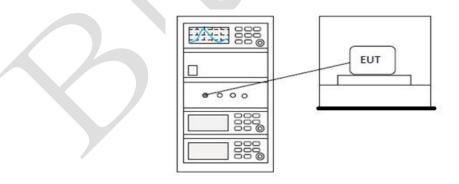
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

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)).

6.7.2 Test setup



6.7.3 Test data

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6.8 Radiated spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247			
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6			
Test Mode (Pre-Scan)	ТХ			
Test Mode (Final Test)	ТХ			

6.8.1 Limit

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)		
0.009-0.490	2400/F(kHz)	300		
0.490-1.705	24000/F(kHz)	30		
1.705-30.0	30	30		
30-88	100	3		
88-216	150	3		
216-960	200	3		
Above 960	500	3		

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

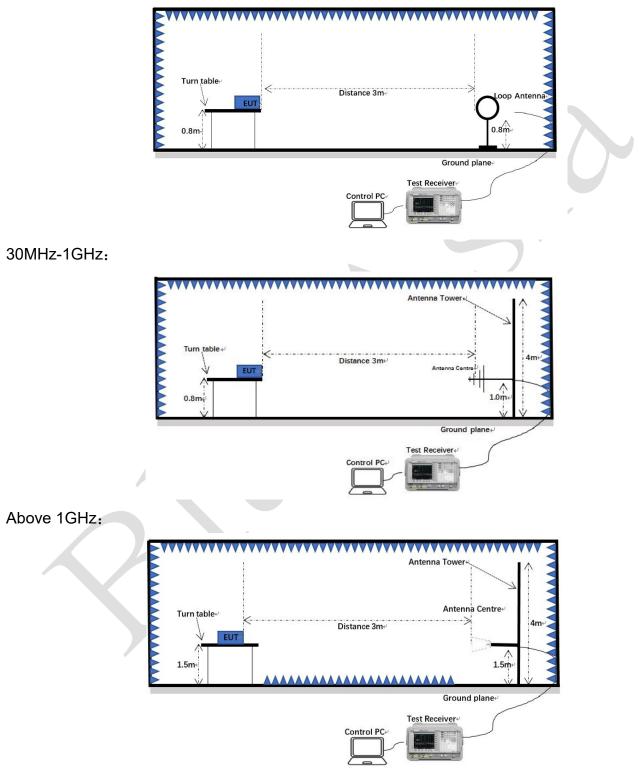
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6.8.2 Test setup

Below 1GHz:



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6.8.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

Note 1: Scan from 9 kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown. Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Level (dBuV) = Reading (dBuV) + Factor (dB/m)

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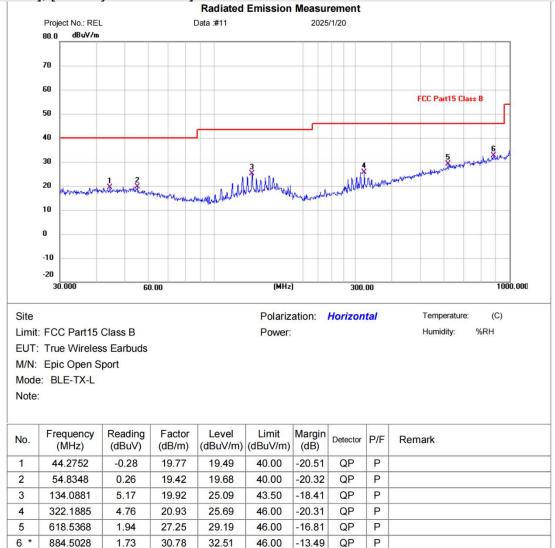
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6.8.4 Test data

Below 1GHz

Remark: During the test, pre-scan the BLE1M/BLE2M mode, and found the BLE1M mode which it is worse case.





Test Result: Pass

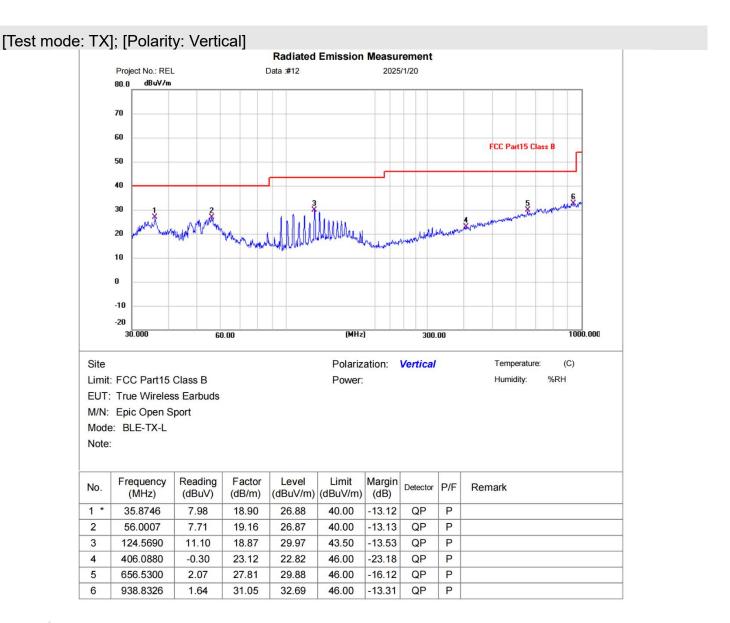
*•Movimum data

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v: Ouar limit Leaver margin



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Test Result: Pass

*·Movimum data

v. Over limit

Louise margin

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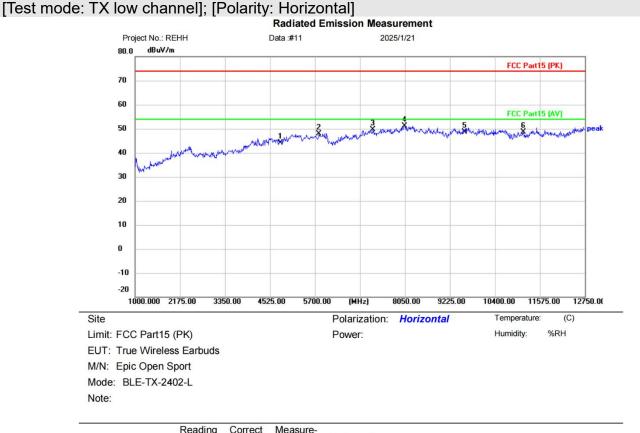
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Above 1GHz:

Remark: During the test, pre-scan the BLE1M/BLE2M mode, and found the BLE1M mode which it is worse case.



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	37.73	6.31	44.04	74.00	-29.96	peak	
2		5805.750	38.92	9.00	47.92	74.00	-26.08	peak	
3		7206.000	39.13	10.39	49.52	74.00	-24.48	peak	
4	*	8038.250	39.42	11.68	51.10	74.00	-22.90	peak	
5		9608.000	35.60	13.01	48.61	74.00	-25.39	peak	
6		11140.25	35.36	13.27	48.63	74.00	-25.37	peak	

*:Maximum data		x:Over limit	!:over margin			Reference Only
Receiver:	ESR	_1		Spectrum Analyzer:	FSP40	

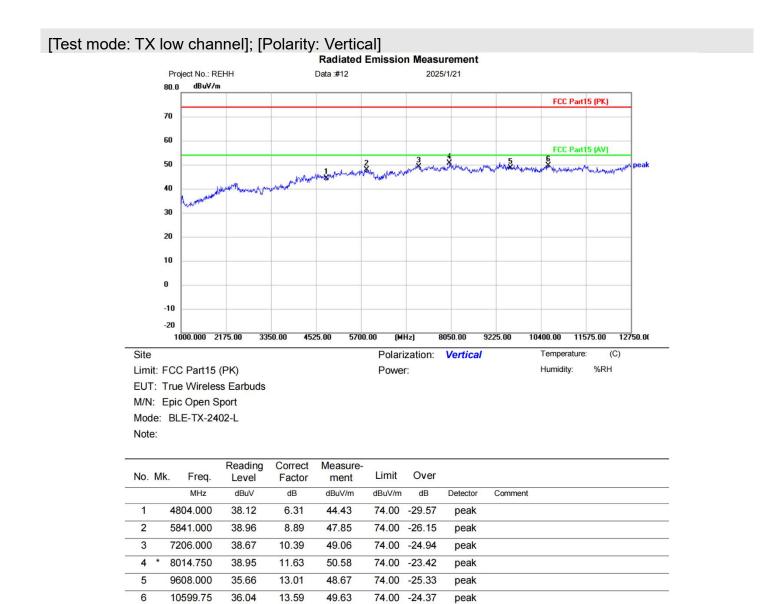
Test Result: Pass

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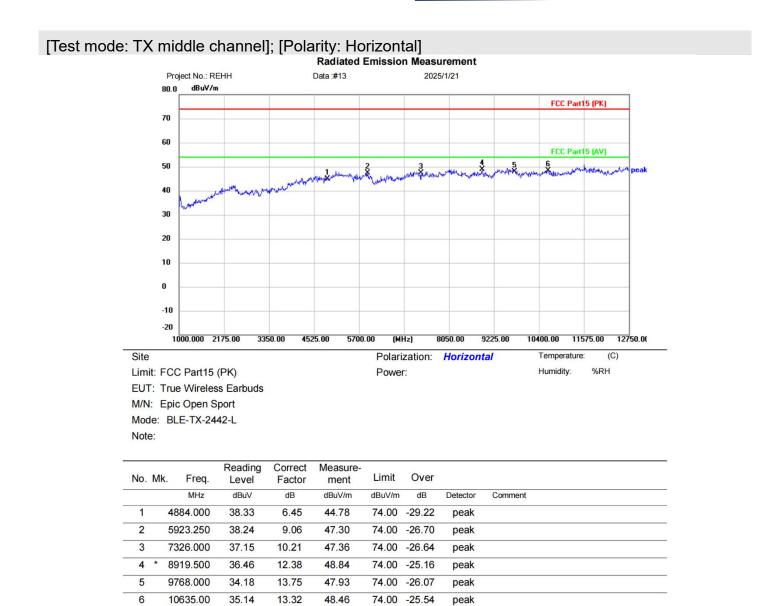
*:Maximum data		x:Over limit	!:over margin			(Reference Only
Receiver:	ESR 1			Spectrum Analyzer:	ESP40	

Test Result: Pass

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*:Maximum data		x:Over limit	!:over margin			(Reference Only
Receiver: ESR 1			Spectrum Analyzer	ESP40		

Test Result: Pass

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