

# Test Report

**Applicant** : PEAG, LLC dba JLab Audio  
**Address** : 5927 LANDAU CT, Carlsbad, CA 92008, United States  
**Product Name** : True Wireless Earbuds  
**Brand Mark** :   
**Model** : Epic Pods ANC  
**Series model** : N/A  
**Report Number** : BLA-EMC-202508-A7804  
**FCC ID** : 2AHYV-EPODS  
**Date of Receipt** : Aug. 19,2025  
**Date of Test** : Aug. 20,2025 to Sept. 15,2025  
**Test Standard** : 47 CFR Part 15, Subpart C 15.247  
**Test Result** : Pass

Compiled by:

charlie

Review by:

Xavier

Approved by:

J. Zheng

Issued Date: Sept. 15,2025



## BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

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



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## Revise Record

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 01          | Sept. 15,2025 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |

## 1 General information

### 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                                                                        |
| Address      | Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13, DongCheng District, DongGuan City, GuangDong Province, P.R. China |
| Factory      | GuangDong Simpreal Intelligent Technology Co., Ltd                                                                        |
| Address      | Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13, DongCheng District, DongGuan City, GuangDong Province, P.R. China |

### 1.2 General description of EUT

|                                                                                                                                                                                          |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Product name                                                                                                                                                                             | True Wireless Earbuds         |
| Model no.                                                                                                                                                                                | Epic Pods ANC                 |
| Series model                                                                                                                                                                             | N/A                           |
| Differences of Series model                                                                                                                                                              | N/A                           |
| Operation Frequency                                                                                                                                                                      | 2402MHz-2480MHz               |
| Modulation Type                                                                                                                                                                          | GFSK                          |
| Rate data                                                                                                                                                                                | 1Mbps; 2Mbps                  |
| Channel Spacing                                                                                                                                                                          | 2MHz                          |
| Number of Channels                                                                                                                                                                       | 40                            |
| Antenna Type                                                                                                                                                                             | internal antenna              |
| Antenna Gain                                                                                                                                                                             | -1.5dBi(Provided by customer) |
| Power supply or adapter information                                                                                                                                                      | Earphone:DC3.85V              |
| Hardware version                                                                                                                                                                         | Main Board:V3<br>FPC:V3       |
| Software version                                                                                                                                                                         | v1.0.46.1                     |
| Engineer sample no.                                                                                                                                                                      | BLA-EMC-202508-A78            |
| <i>Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.<br/>This BT report is only for Left earbuds.</i> |                               |

## 2 Test summary

| No. | Test item                                             | FCC Part Section(s)   | Test Method(Clause)                            | Result |
|-----|-------------------------------------------------------|-----------------------|------------------------------------------------|--------|
| 1   | Antenna Requirement                                   | §15.203               | N/A                                            | Pass   |
| 2   | Conducted Emissions at AC Power Line (150kHz-30MHz)   | §15.207               | ANSI C63.10-2020+Cor.1-2023 Clause 6.2         | N/A    |
| 3   | Conducted Peak Output Power                           | §15.247(b)(3)         | ANSI C63.10-2020+Cor.1-2023 Clause 7.8.5       | Pass   |
| 4   | Minimum 6dB Bandwidth                                 | §15.247a(2)           | ANSI C63.10-2020+Cor.1-2023 Clause 11.8.1      | Pass   |
| 5   | Power Spectrum Density                                | §15.247(d)            | ANSI C63.10-2020+Cor.1-2023 Clause 11.10.2     | Pass   |
| 6   | Conducted Band Edges Measurement                      | §15.247(d)            | ANSI C63.10-2020+Cor.1-2023 Clause 11.13       | Pass   |
| 7   | Conducted Spurious Emissions                          | §15.247(d)            | ANSI C63.10-2020+Cor.1-2023 Clause 11.11       | Pass   |
| 8   | Radiated Spurious Emissions                           | §15.209<br>§15.247(d) | ANSI C63.10-2020+Cor.1-2023 Clause 6.4,6.5,6.6 | Pass   |
| 9   | Radiated Emissions which fall in the restricted bands | §15.209<br>§15.247(d) | ANSI C63.10-2020+Cor.1-2023 Clause 11.12       | Pass   |

N/A: Not Applicable

## 3 Test Configuration

### 3.1 Test mode

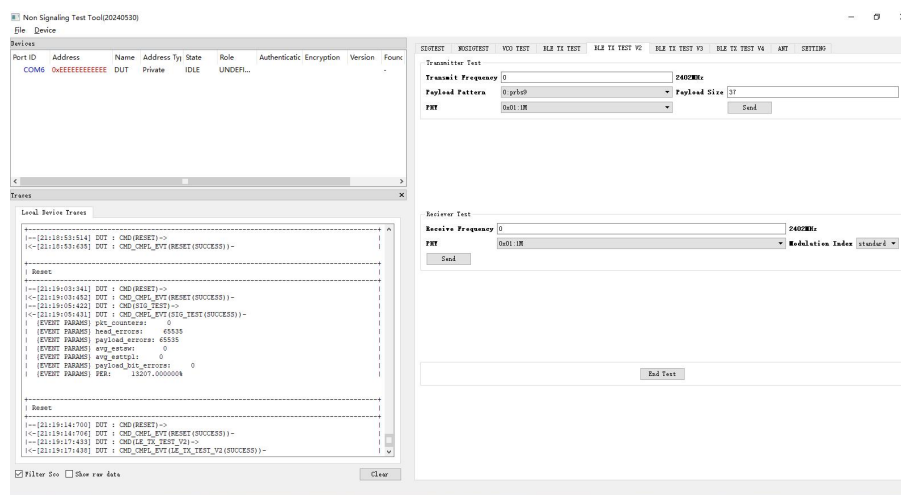
| Test Mode <sup>Note 1</sup> | Description                                                      |
|-----------------------------|------------------------------------------------------------------|
| TX                          | Keep the EUT in continuously transmitting with modulation mode.  |
| RX                          | 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            | Non Signaling Test Tool(20240530) |                 |                    |
| Mode                          | Channel                           | Frequency (MHz) | Soft Set           |
| GFSK                          | CH00                              | 2402            | TX level : default |
|                               | CH39                              | 2442            |                    |
|                               | CH78                              | 2480            |                    |

### Run Software



### 3.2 Operation Frequency each of channel

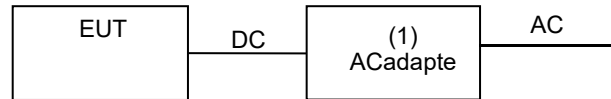
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 0       | 2402MHz   | 10      | 2422MHz   | 20      | 2442MHz   | 30      | 2462MHz   |
| 1       | 2404MHz   | 11      | 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

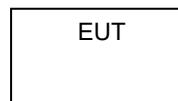
| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2402MHz   |
| The middle channel  | 2442MHz   |
| The Highest channel | 2480MHz   |

### 3.4 Configuration diagram of EUT

AC conducted emission:

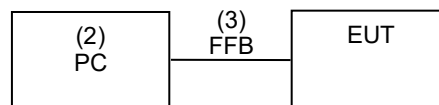


Radiated emission:



Note: see test photographs attached in APPENDIX A for the actual connections between Product and support equipment.

RF Test:



Support equipment:

| Name | Device type           | Brand  | Mode  | Series No | Remark |
|------|-----------------------|--------|-------|-----------|--------|
| (1)  | AC Adapter            | UGREEN | CD112 | N/A       | N/A    |
| (2)  | PC                    | lenovo | E460C | N/A       | N/A    |
| (3)  | Fixed frequency board | N/A    | N/A   | N/A       | N/A    |

### 3.5 Auxiliary equipment

| Device Type | Manufacturer | Model Name   | Serial No. | Remark                          |
|-------------|--------------|--------------|------------|---------------------------------|
| Mobile      | Apple        | iPhone x     | N/A        | From lab (No.BLA-ZC-BS-2022065) |
| PC          | lenovo       | E46OC        | N/A        | From lab (No.BLA-ZC-BS-2022005) |
| AC adapter  | PISEN        | ZY2207-A521H | N/A        | From lab                        |

**Note:**“--” mean no any auxiliary device during testing.

### 3.6 Test environment

| Environment | Temperature | Voltage  |
|-------------|-------------|----------|
| Normal      | 25°C        | DC 3.85V |

## 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, 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)                  | $\pm 4.34\text{dB}$             |
| Radiated Emission(30Mz-1000MHz)                | $\pm 4.24\text{dB}$             |
| Radiated Emission(1GHz-18GHz)                  | $\pm 4.68\text{dB}$             |
| AC Power Line Conducted Emission(150kHz-30MHz) | $\pm 3.45\text{dB}$             |
| Occupied Channel Bandwidth                     | $\pm 5\%$                       |
| RF output power, conducted                     | $\pm 1.5\text{ dB}$             |
| Power Spectral Density, conducted              | $\pm 3.0\text{ dB}$             |
| Unwanted Emissions, conducted                  | $\pm 3.0\text{ dB}$             |
| Temperature                                    | $\pm 3\text{ }^{\circ}\text{C}$ |
| Supply voltages                                | $\pm 3\%$                       |
| Time                                           | $\pm 5\%$                       |

## 5 Test equipment

### 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 | 2025/08/05 | 2026/08/04 |
| 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        |

### 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           | 2025/08/05 | 2026/08/04 |
| BLA-EMC-012    | Broadband antenna | VULB9168             | Schwarzbeck | 00836<br>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<br>3003 | 2025/08/05 | 2026/08/04 |
| BLA-EMC-046    | Filter bank       | 2.4G/5G Filter bank  | SKET        | N/A              | 2025/06/09 | 2026/06/08 |
| BLA-EMC-061    | Receiver          | ESPI7                | R&S         | 101477           | 2025/06/09 | 2026/06/08 |
| BLA-EMC-066    | Amplifier         | LNPA_30M01<br>G-30   | SKET        | SK202106<br>0801 | 2025/06/09 | 2026/06/08 |
| BLA-EMC-086    | Amplifier         | LNPA_18G40<br>G-50dB | SKET        | SK202207<br>1301 | 2025/06/09 | 2026/06/08 |
| 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        |

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

| Equipment       | Name                                            | Model       | Manufacture | 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        | 2025/08/05 | 2026/08/04 |
| BLA-EMC-011     | LISN                                            | ENV216      | R&S         | 101372        | 2025/08/05 | 2026/08/04 |
| BLA-EMC-033     | Impedance transformer                           | DC-2GHz     | DFXP        | N/A           | 2025/06/09 | 2026/06/08 |
| BLA-EMC-041     | LISN                                            | AT166-2     | ATTEN       | AKK1806000003 | 2025/08/05 | 2026/08/04 |
| BLA-EMC-045     | Impedance stable network                        | ISNT8-cat 6 | TESEQ       | 53580         | 2025/08/05 | 2026/08/04 |
| BLA-EMC-095     | Single-channel vehicle artificial power network | NNBM 8124   | Schwarzbeck | 01045         | 2025/06/09 | 2026/06/08 |
| BLA-EMC-096     | Single-channel vehicle artificial power network | NNBM 8124   | Schwarzbeck | 01075         | 2025/06/09 | 2026/06/08 |
| BLA-XC-05       | Coaxial Cable                                   | N/A         | BlueAsia    | V05           | N/A        | N/A        |

**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         | MY52420567     | 2025/06/09 | 2026/06/08 |
| BLA-EMC-038     | Spectrum                   | N9020A    | Agilent         | MY49100060     | 2025/08/05 | 2026/08/04 |
| BLA-EMC-042     | Power sensor               | RPR3006 W | DARE            | 14I00889SN042  | 2025/08/05 | 2026/08/04 |
| BLA-EMC-044     | Radio communication tester | CMW500    | R&S             | 132429         | 2025/08/05 | 2026/08/04 |
| BLA-EMC-064     | Signal Generator           | N5182B    | KEYSIGHT        | MY58108892     | 2025/06/09 | 2026/06/08 |
| BLA-EMC-079     | Spectrum                   | N9020A    | Agilent         | MY54420161     | 2025/08/05 | 2026/08/04 |
| BLA-EMC-088     | Audio Analyzer             | ATS-1     | Audio Precision | ATS141094      | 2025/06/09 | 2026/06/08 |
| BLA-EMC-100     | Digital Radio Tester       | RWC2010   | Redwoodcomm     | RWC20102490304 | 2025/06/09 | 2026/06/08 |

**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        |

## 6 Test result

### 6.1 Antenna requirement

|               |                                  |
|---------------|----------------------------------|
| Test Standard | 47 CFR Part 15, Subpart C 15.203 |
| 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 internal antenna The best case gain of the antenna is -1.5dBi

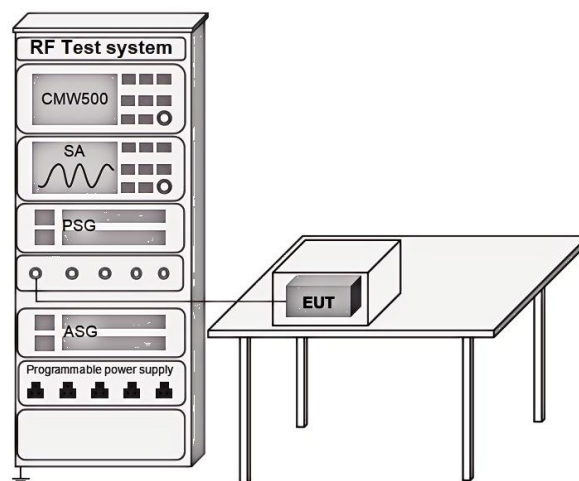
## 6.2 Conducted peak output Power

|                               |                                          |
|-------------------------------|------------------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247(b)(3)   |
| <b>Test Method</b>            | ANSI C63.10-2020+Cor.1-2023 Clause 7.8.5 |
| <b>Test Mode (Pre-Scan)</b>   | TX                                       |
| <b>Test Mode (Final Test)</b> | TX                                       |

### 6.2.1 Limit

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

### 6.2.2 Test setup



### 6.2.3 Test data

Note: PK power sensor is used to read PK Conducted power power directly

Pass: Please refer to appendix A for details

*BlueAsia* of Technical Services (Shenzhen) Co., Ltd.

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Version:v1.3

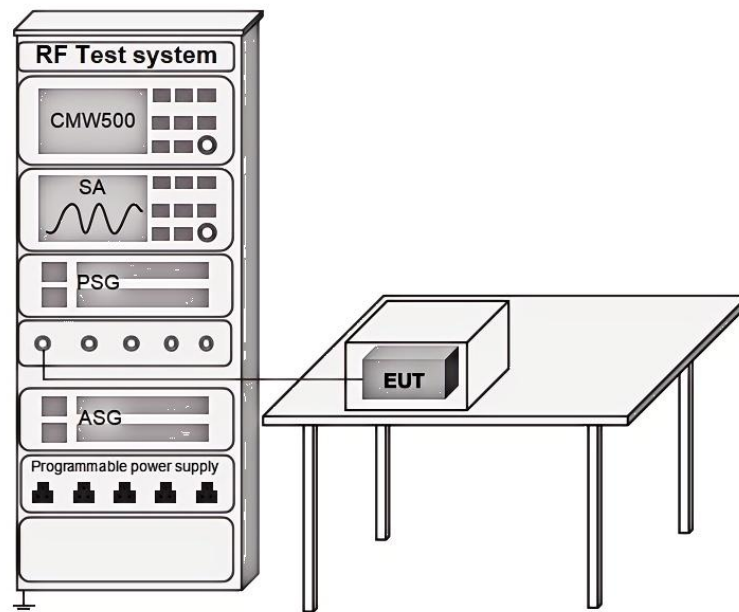
### 6.3 Minimum 6dB bandwidth

|                        |                                           |
|------------------------|-------------------------------------------|
| Test Standard          | 47 CFR Part 15, Subpart C 15.247a(2)      |
| Test Method            | ANSI C63.10-2020+Cor.1-2023 Clause 11.8.1 |
| Test Mode (Pre-Scan)   | TX                                        |
| Test Mode (Final Test) | TX                                        |

#### 6.3.1 Limit

≥500 kHz

#### 6.3.2 Test setup



#### 6.3.3 Test data

Pass: Please refer to appendix A for details

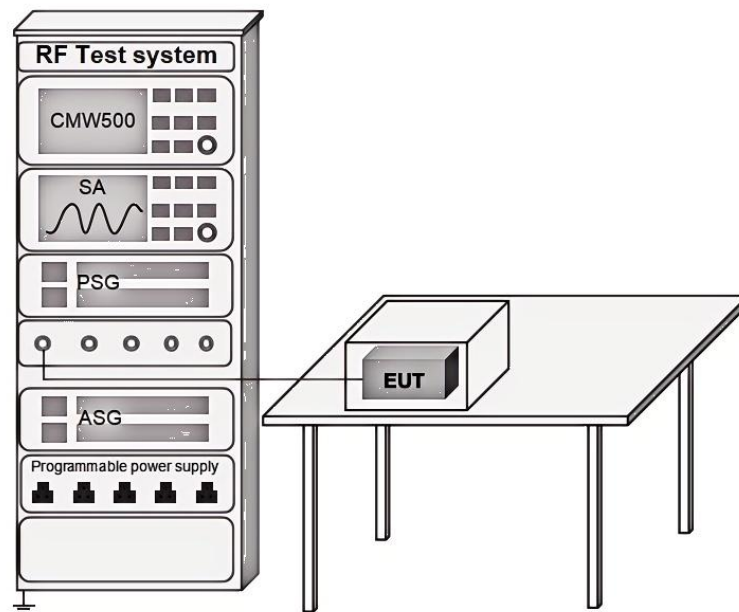
## 6.4 Power spectrum density

|                        |                                            |
|------------------------|--------------------------------------------|
| Test Standard          | 47 CFR Part 15, Subpart C 15.247(d)        |
| Test Method            | ANSI C63.10-2020+Cor.1-2023 Clause 11.10.2 |
| Test Mode (Pre-Scan)   | TX                                         |
| Test Mode (Final Test) | TX                                         |

### 6.4.1 Limit

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

### 6.4.2 Test setup



### 6.4.3 Test data

Pass: Please refer to appendix A for details

## 6.5 Conducted Band Edges Measurement

|                               |                                          |
|-------------------------------|------------------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247(d)      |
| <b>Test Method</b>            | ANSI C63.10-2020+Cor.1-2023 Clause 11.13 |
| <b>Test Mode (Pre-Scan)</b>   | TX                                       |
| <b>Test Mode (Final Test)</b> | TX                                       |

### 6.5.1 Limit

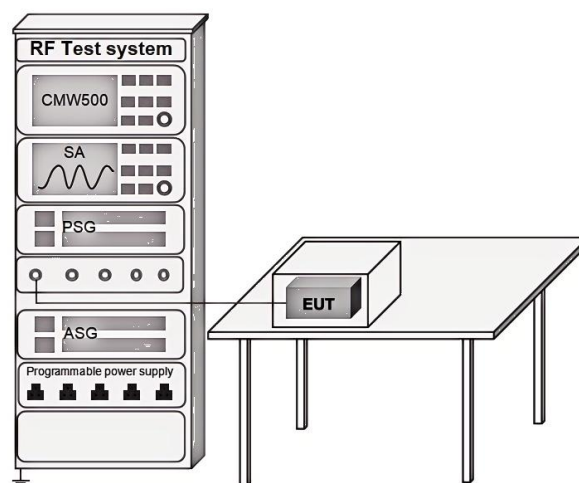
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

### 6.5.2 Test setup



### 6.5.3 Test data

Pass: Please refer to appendix A for details

## 6.6 Conducted spurious emissions

|                               |                                          |
|-------------------------------|------------------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247(d)      |
| <b>Test Method</b>            | ANSI C63.10-2020+Cor.1-2023 Clause 11.11 |
| <b>Test Mode (Pre-Scan)</b>   | TX                                       |
| <b>Test Mode (Final Test)</b> | TX                                       |

### 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

