



# MEASUREMENT REPORT

## FCC PART 15.247 Bluetooth-LE

Report No.: S202311207626E04

Issue Date: 01-05-2024

Applicant: ANDON HEALTH CO., LTD.

Address: No.3 JinPing Road, Nankai District, Tianjin, China 300190

ZRY5811BT FCC ID:

Product: WIRELESS BLOOD PRESSURE MONITOR

Model No.: KD-5811BT, KD-5810BT, KD-5920BT

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15 Subpart C (15.247)

ANSI C63.10-2013, KDB 558074 D01v05r02 **Test Procedure(s):** 

Result: **Pass** 

**Item Receipt Date:** 2023.11.20

Test Date: Nov 25 ~ Dec 20, 2023

Compiled By

(Stone Zhang) Senior, Test Engineer

Approved By

(Line Chen) Engineer Manag

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2014. Test results reported herein relate only to the item(s) tested. The test report shall not be reproduced except in full without the written approval of Fangguang Inspection & Testing Co., Ltd. Wuxi Branch

The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

TRF No.:FG.WI-07-Part 15 Subpart C (15.247)

Report No.: S202311207626E04



# **Revision History**

Report No.	Version	Description	Issue Date
S202311207626E04	Rev. 01	1	01-05-2024



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# §2.1033 General Information

Applicant:	ANDON HEALTH CO., LTD.						
Applicant Address:	No.3 JinPing Road, Nankai District, Tianjin, China 300190						
Manufacturer:	ANDON HEALTH CO., LTD.						
Manufacturer Address:	No.3 JinPing Road, Nankai District, Tianjin, China 300190						
Test Site:	Fangguang Inspection & Testing Co., Ltd.						
LAB ID:	CN5037						
Test Site Address:	G9 Building, China Sensor Network International Innovation Park						
rest site Address.	No.200, Linghu Avenue Wuxi, Jiangsu 214000 China						
FCC Rule Part(s):	Part 15 Subpart C (15.247)						
FCC ID:	ZRY5811BT						
Test Device Serial No.:	S/N.:/						
rest Device Serial No.:	☐ Production ⊠ Pre-Production ☐ Engineering						
FCC Classification:	Digital Transmission System (DTS)						

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#### 1. INTRODUCTION

#### 1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

### 1.2. Fangguang Test Location

These measurement tests were performed at the Fangguang Inspection and testing Co.,LTD located at 200 Linghu Avenue, Xinwu District, Wuxi City. The detailed description of the measurement facility was found to be in compliance with the requirements of ANSI C63.4-2014.



## 2. PRODUCT INFORMATION

## 2.1. Equipment Description

Product Name:	WIRELESS BLOOD PRESSURE MONITOR
Model Name:	KD-5811BT
Additional Model:	KD-5810BT, KD-5920BT
	The EUT Devices Model KD-5811BT, KD-5810BT, KD-5920BT are the same
Model Description:	on the board, schematic, hardware version, but have some minor differences
	in software versions, structure and the model name.
Trade Mark:	andon
	KD-5811BT: Adapter: Input 100-240V∼50/60 Hz, 0.2A Output 5.0V – 1.0A,
	5.0W
	Battery: 6V 0.6A
Input Voltage Range:	KD-5810BT: Adapter: Input 100-240V∼50/60 Hz, 0.2A Output 5.0V – 1.0A,
	5.0W
	Battery: 6V 0.6A
	KD-5920BT: Battery: 6V 0.6A
Bluetooth Version:	5.2

## 2.2. Product Specification Subjective to this Report

Bluetooth Frequency	2402~2480MHz
Bluetooth Version	5.2
Type of modulation	GFSK
Data Rate	1Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	0.01 dBi

## 2.3. Operation Frequency / Channel List

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz

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15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz				

EUT was tested with Channel 0, 19 and 39.

#### 2.4. Device Capabilities

This device contains the following capabilities: Bluetooth (5.2)

**Note:** The maximum achievable duty cycle was determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW =8MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles of BLE\_1M are 63.49% and BLE\_2M are 33.33%.

### 2.5. Description of Test Software

The test utility software used during testing was "bgtool.exe", and the test software power level setting is 5.

#### 2.6. Test Mode

Test Mode	Mode 1: Transmit by BLE_1M
Test Mode	Mode 2: Transmit by BLE_2M

#### 2.7. Test Configuration

The EUT was tested per the guidance of KDB 558074 D01 v05r02. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.



#### 2.8. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

#### 2.9. EUT Photo

The EUT external photo, internal photo and test setup photo, please refer to the plots in the S202311207626E04-A1/A2/A3.

#### 2.10. Labeling Requirements

#### Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

#### 2.11. Calculation with all conversion and correction factors used

For AC Line Conducted Emissions Test:

Measure Level ( $dB\mu V$ ) = Reading Level ( $dB\mu V$ ) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

For Radiated Emissions Below 1GHz Test:

Measure Level ( $dB\mu V/m$ ) = Reading Level ( $dB\mu V$ ) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

For Radiated Emissions Above 1GHz Test:

Measure Level ( $dB\mu V/m$ ) = Reading Level ( $dB\mu V$ ) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).



#### 3. DESCRIPTION OF TEST

#### 3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 558074 D01 v05r02 were used in the measurement of the EUT.

Deviation from measurement procedure......None

#### 3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz,  $50\Omega/50$ uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.



#### 3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. The turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-25GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

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### 4. ANTENNA REQUIREMENTS

### Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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."

Use a unique coupling to the intentional radiator.

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## 5. TEST EQUIPMENT CALIBRATION DATE

#### **Conducted Emissions**

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	FWXGJC-2016-181	1 year	2024/03/14
Two-Line V-Network	R&S	ENV 216	FWXGJC-2016-182	1 year	2024/05/14
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2024/03/21

#### Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Loop Antenna	Schwarzbeck	FMZB 1519B	FWXGJC-2018-015	3 year	2024/08/13
Bi-Log Antenna	R&S	HL562E	FWXGJC-2016-267-06	3 year	2024/03/10
Broadband Horn Antenna	R&S	HF907	FWXGJC-2016-267-07	1 year	2024/03/02
Broadband Horn Antenna	Schwarzbeck	BBHA9170	FWXGJC-2018-016	3 year	2024/06/04
EMI Receiver	R&S	ESR26	FWXGJC-2016-267-01	1 year	2024/11/05
Pre-Amplifier	R&S	SCU-18D	FWXGJC-2016-267-05	1 year	2024/11/05
Pre-Amplifier	R&S	EMC184055 SE	FWXGJC-2018-018	3 year	2025/04/13
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-386	1 year	2024/11/03
Anechoic Chamber	Aimuke	EMCCT-3	FWXGJC-2016-270	1 year	2025/06/07

## Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Keysight	N9010B	FWXGJC-2018-010	1 year	2024/03/13
RF Control Unit	Toncend	JS0806-2	FWXGJC-2018-013	1 year	2024/05/14
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2024/03/21

Test Software	Manufacturer	Version	Asset No.	Function
EMI Test Software	tonscend	V3.3.10	/	/

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#### 6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

#### **AC Conducted Emission Measurement**

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

2.05dB

#### Radiated Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

30MHz-1GHz: 3.06dB 1GHz-12.75GHz: 4.13dB

#### Spurious Emissions, Conducted

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

30MHz-1GHz: 1.00 dB 1GHz-26.5GHz: 1.30 dB

#### **Output Power**

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

0.60dB

### Power Spectrum Density

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

0.80dB

#### Occupied Bandwidth

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

0.20MHz

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#### 7. TEST RESULT

### 7.1. Summary

FCC Part Section(s)	Test Description	Test Limit	Test Limit Test Condition		Reference	
15.247(a)(2)	6dB Bandwidth	≥ 500kHz		Pass	Section 7.2	
15.247(b)(3)	Output Power	≤ 30dBm		Pass	Section 7.3	
15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Conducted Pass		Section 7.4	
15.247(d)	Band Edge	≥ 20dBc		Pass	Section 7.5	
15.247(d)	Out-of-Band Emissions	≥ 20dBc		Pass	Section 7.6	
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS GEN [8.9])	Radiated	Pass	Section 7.7	
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits ( RSS GEN [8.8])	Line Conducted	Pass	Section 7.8	

#### Notes:

- All modes of operation and data rates were investigated. For radiated emission test, every axis
  (X, Y, Z) was also verified. The test results shown in the following sections represent the worst
  case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.



#### 7.2. 6dB Bandwidth Measurement

#### 7.2.1. Test Limit

The minimum permissible 6dB bandwidth is 500 kHz.

#### 7.2.2. Test Procedure used

ANSI C63.10-2013 Section 11.8.2 Option 1

KDB 558074 D01 v05r02 - Section 8.2

#### 7.2.3. Test Setting

- 1. Set RBW = 100 kHz
- 2. VBW ≥ 3 × RBW
- 3. Detector = peak
- 4. Trace mode = max hold
- 5. Sweep = auto couple
- 6. Allow the trace was allowed to stabilize
- 7. 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.

#### 7.2.4. Test Setup



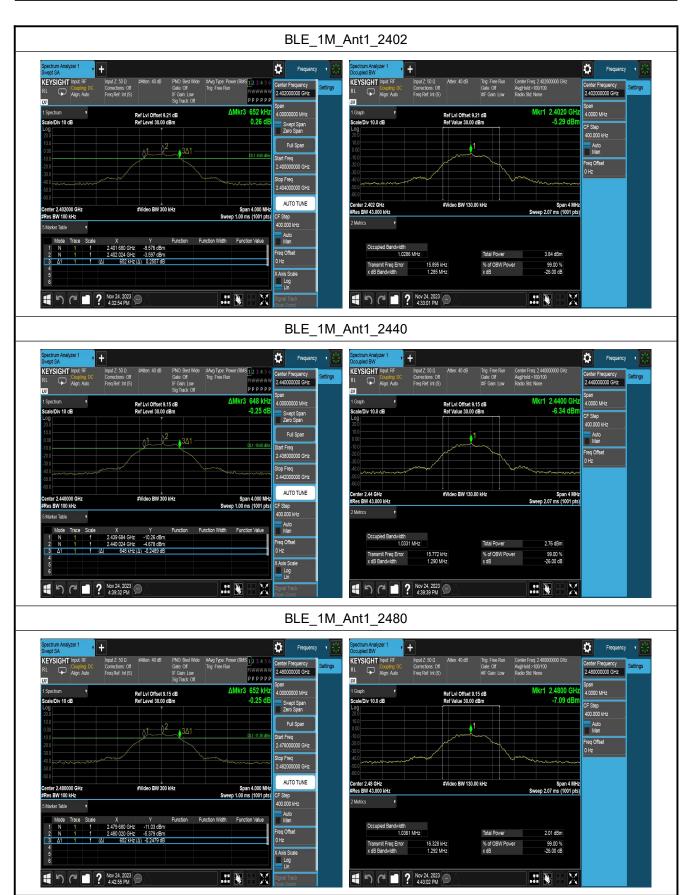


## 7.2.5. Test Result

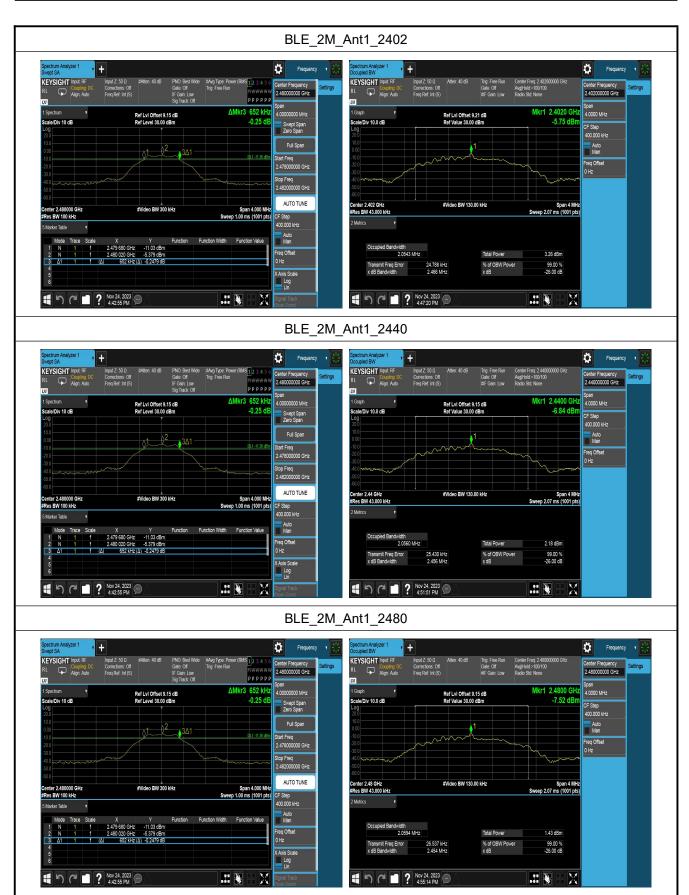
Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	99% BW[MHz]	Verdict
BLE_1M		2402	0.652	2401.680	2402.332	>=0.5	1.0286	PASS
	Ant1	2440	0.648	2439.684	2440.332	>=0.5	1.0331	PASS
		2480	0.652	2479.680	2480.332	>=0.5	1.0361	PASS
BLE_2M		2402	1.164	2401.428	2402.592	>=0.5	2.0543	PASS
	Ant1	2440	1.164	2439.428	2440.592	>=0.5	2.0560	PASS
		2480	1.160	2479.432	2480.592	>=0.5	2.0594	PASS

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#### 7.3. Output Power Measurement

#### 7.3.1. Test Limit

The maximum permissible conducted output power is 1 Watt (30dBm). And for antenna gain greater than 6dBi the limit shall reduce by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 7.3.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.9.1.1

KDB 558074 D01 v05r02 - Section 8.3.1.2

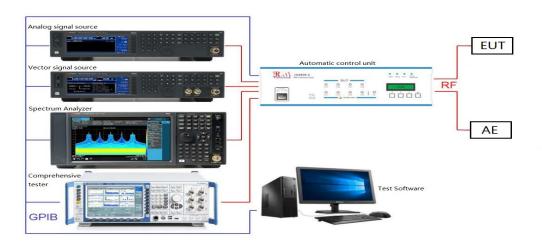
### 7.3.3. Test Setting

- 1.Set the RBW ≥ DTS bandwidth.
- 2.Set the VBW ≥  $[3 \times RBW]$ .
- 3.Set the span ≥[3 × RBW].
- 4.Detector = peak.
- 5.Sweep time = auto couple.
- 6.Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use peak marker function to determine the peak amplitude level.

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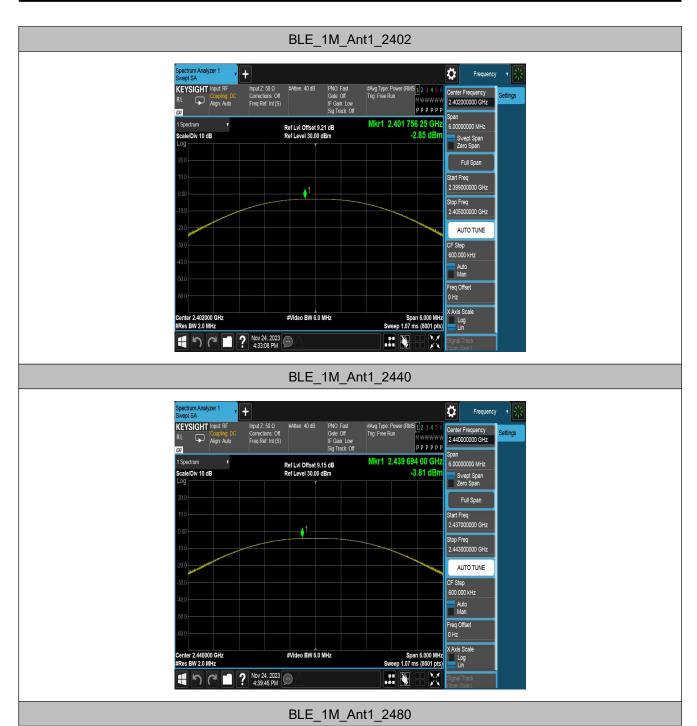
## 7.3.4. Test Setup



## 7.3.5. Test Result of Output Power

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.85	≤30	PASS
		2440	-3.81	≤30	PASS
		2480	-4.50	≤30	PASS
BLE_2M	Ant1	2402	-2.87	≤30	PASS
		2440	-3.89	≤30	PASS
		2480	-4.58	≤30	PASS













BLE\_2M\_Ant1\_2440







### 7.4. Power Spectral Density Measurement

#### 7.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band. And for antenna gain greater than 6dBi the limit shall reduce by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 7.4.2. Test Procedure Used

KDB 558074 D01 v05r02 - Section 8.4

ANSI C63.10 - Section 11.10.2

#### 7.4.3. Test Setting

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to 3 kHz  $\leq$  RBW  $\leq$  100 kHz.
- 4. Set the VBW ≥ [3 × RBW].
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.



## 7.4.4. Test Setup

