Fangguang Inspection & Testing Co., Ltd.





MEASUREMENT REPORT FCC PART 15.247 Bluetooth-LE

		Report No.: S20240925789103	
		Issue Date:	11-15-2024
Applicant:	Waylens Inc.		
Address:	2711 Centerville Road - Suite	e 400, Wilmingto	n,
Auuress.	Delaware, United States		
FCC ID:	2AKAF-CAM18		
Product:	Al Recorder II		
Model No.:	CAM18		
FCC Classification:	Digital Transmission System	(DTS)	
FCC Rule Part(s):	Part 15 Subpart C (15.247)		
Test Procedure(s):	ANSI C63.10-2013, KDB 558	3074 D01v05r02	
Result:	Pass		
Item Receipt Date:	Sep. 29, 2024		
Test Date:	Oct. 08, ~ Oct. 26, 2024		
			1

11ang Compiled By (Chuang Li) Senior Test Engineer inf lCí | Approved By (Line Chen) Engineer Manager

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.

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 TRF No.:FG.WI-07-Part 15 Subpart C (15.247)
 Reports Inquiry :http://www.sci.action.com

Revision History

Report No.	Version	Description	Issue Date
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§2.1033 General Information

Applicant:	Waylens Inc.					
Applicant Address:	2711 Centerville Road - Suite 400, Wilmington, Delaware, United					
	StatesDistrict,Zhenjiang,Jiangsu,China					
Manufacturer:	Waylens Inc.					
Manufacturer Address:	2711 Centerville Road - Suite 400, Wilmington, Delaware, United					
	StatesDistrict,Zhenjiang,Jiangsu,China					
Factory:	Waylens Inc.					
Factory Address:	2711 Centerville Road - Suite 400, Wilmington, Delaware, United					
	StatesDistrict,Zhenjiang,Jiangsu,China					
Test Site:	Fangguang Inspection & Testing Co., Ltd.					
LAB ID:	CN5037					
Test Site Address:	G9 Building, China Sensor Network International Innovation Park					
Test Sile Address.	No.200, Linghu Avenue Wuxi, Jiangsu 214000 China					
FCC Rule Part(s):	Part 15 Subpart C (15.247)					
FCC ID:	2AKAF-CAM18					
Test Device Serial No.:	S/N:/					
□ Production □ Pre-Production □ Engineering						
FCC Classification:	Digital Transmission System (DTS)					



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:	Al Recorder II
Model Name:	CAM18
Trade Mark:	/
Input Voltage Range:	DC: 14V 1A
Bluetooth Version:	4.2
Software Version:	1.2.01
Hardware Version:	TWN_V5
N lata.	This information is provided by the Customer and its authenticty is the
Note:	responsibility of the Customer.

2.2. Product Specification Subjective to this Report

Bluetooth Frequency	2402~2480MHz
Type of modulation	GFSK
Data Rate	1Mbps
Antenna Type:	PCB softboard Antenna
Antenna Gain:	2.93dBi



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
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				

2.3. Operation Frequency / Channel List

2.4. Device Capabilities

This device contains the following capabilities:Bluetooth (5.0)

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%.

2.5. Description of Test Software

The test utility software used during testing was "putty.exe", Power Parameter Value:

Test Mode	ANT1
BLE_1M	33

2.6. Test Mode

Test Mode	Mode 1: Transmit by BLE_1M
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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. 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.

2.10. Calculation with all conversion and correction factors used

For AC Line Conducted Emissions Test: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB) Factor (dB) = Cable Loss (dB) + LISN Factor (dB) For Radiated Emissions Below 1GHz Test: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB) Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m). For Radiated Emissions Above 1GHz Test: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB) Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



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.



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.



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	2025/03/07
Two-Line V-Network	R&S	ENV 216	FWXGJC-2016-182	1 year	2025/04/28
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2025/02/25

Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Loop Antenna	Schwarzbeck	FMZB 1519B	FWXGJC-2018-015	3 year	2025/07/07
Bi-Log Antenna	R&S	HL562E	FWXGJC-2016-267-06	1 year	2025/03/02
Broadband Horn Antenna	R&S	HF907	FWXGJC-2016-267-07	1 year	2025/03/01
Broadband Horn Antenna	Schwarzbeck	BBHA9170	FWXGJC-2018-016	3 year	2025/05/31
EMI Receiver	R&S	ESR26	FWXGJC-2016-267-01	1 year	2025/07/26
Pre-Amplifier	R&S	SCU-18D	FWXGJC-2016-267-05	1 year	2025/07/23
Pre-Amplifier	R&S	EMC184055 SE	FWXGJC-2018-018	3 year	2025/04/13
Hygrothermograph	Mittel	HTC-1	FWXDA-2016-387	1 year	2025/02/25
Anechoic Chamber	Aimuke	EMCCT-3	FWXGJC-2016-270	3 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	2025/03/02
RF Control Unit	Toncend	JS0806-2	FWXGJC-2018-013	1 year	2025/05/19
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2025/02/25

Auxiliary Equipment

Instrument	Manufacturer	Туре No.	Asset No.	Function
Filter	Toncend	ZBSF6	07247867	/
Filter	Toncend	ZHPF6	07233297	/
Attenuator	Toncend	10dB	/	/
RF Cable	Toncend	T-1	/	/



Test Software

Test Software	Manufacturer	Version	Asset No.	Function
EMI Test Software	Tonscend	V2.5.2.4	FWXWA-2018-004	Emission Test
RF Test Software	Tonscend	3.3.10	1	/



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 (below 1GHz)
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):
3.06dB
Radiated Emission Measurement (above 1GHz)
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):
4.13dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):
30MHz-1GHz: 1.00 dB
1GHz-12.75GHz: 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
Frequency Stability
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):
0.1×10 ⁻⁶



7. TEST RESULT

7.1. Summary

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	≥ 500kHz		Pass	Section
13.247 (a)(2)					7.2
15.247(b)(3)	Output Power	≤ 30dBm		Pass	Section
10.247(0)(0)				1 435	7.3
15.247(e)	Power Spectral	≤ 8dBm/3kHz	Conducted	Pass	Section
10.247(0)	Density		Conducted	1 435	7.4
15.247(d)	Band Edge	≥ 20dBc		Pass	Section
10.2 +7 (d)		= 20000		1 000	7.5
15.247(d)	Out-of-Band	≥ 20dBc		Pass	Section
10.247 (d)	Emissions	= 20000		1 033	7.5
		Emissions in		Pass	
	Restricted Bands	restricted			Section
15.205		bands must meet the			7.7
		radiated limits			
		detailed in 15.205	Radiated		
	General Field	Radiated Emission			
	Strength Limits	must meet the		Pass	Section
15.209	(Radiated Emission	radiated limits			7.6
	Limits)	detailed in 15.209			
	,	(RSS GEN [8.9])			
	AC Conducted	< FCC 15.207 limits	Line		Section
15.207	Emissions	(RSS GEN [8.8])	Conducted	N/A	7.8
	150kHz - 30MHz	、 L - J/			

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

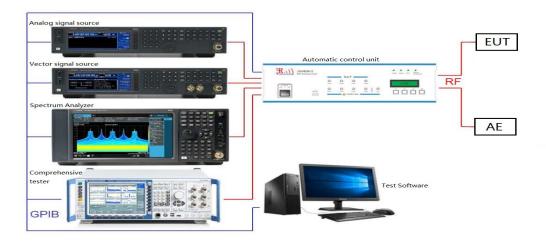
ANSI C63.10-2013 Section 11.8.2 Option 1

KDB 558074 D01 v05r02 - Section 8.2

7.2.3. Test Setting

- 1. Set RBW = 100 kHz
- 2. VBW \geq 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

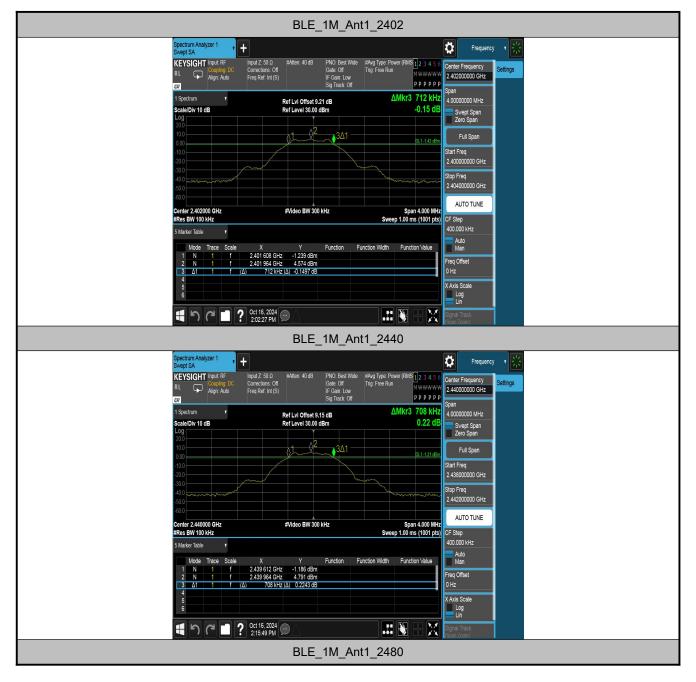




7.2.5. Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	99% BW[MHz]	Verdict
BLE_1M Ant1	2402	0.712	2401.608	2402.320	0.5	1.0495	PASS	
	2440	0.708	2439.612	2440.320	0.5	1.0552	PASS	
		2480	0.708	2479.612	2480.320	0.5	1.0544	PASS

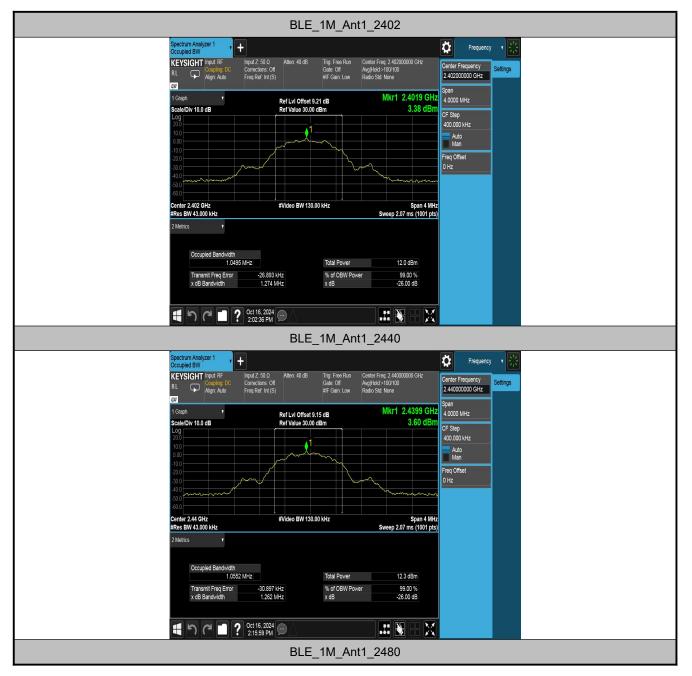
Test Graphs of 6dB Bandwidth











Test Graphs of Occupied Channel Bandwidth







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

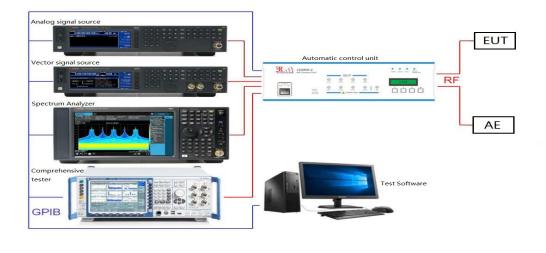
```
KDB 558074 D01 v05r02 - Section 8.3.1.2
```

7.3.3. Test Setting

- 1.Set the RBW \geq DTS bandwidth.
- 2.Set the VBW \geq [3 × 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.



7.3.4. Test Setup

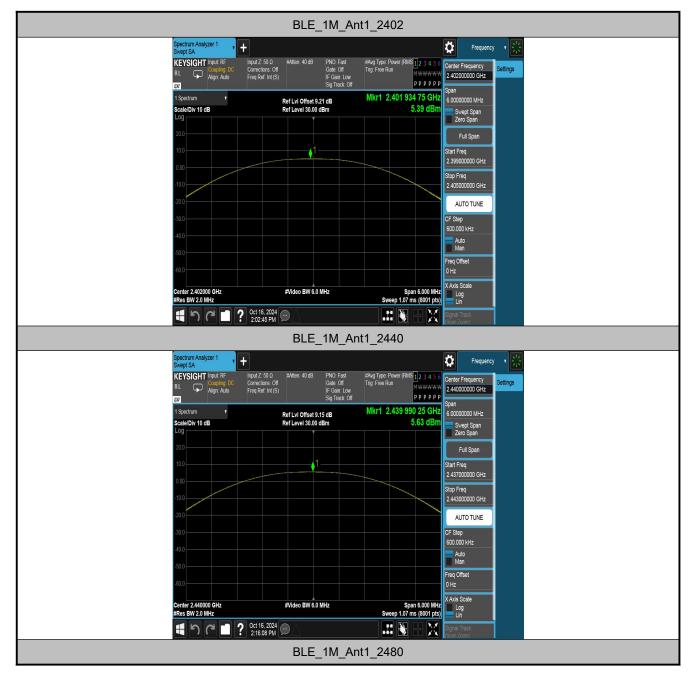


7.3.5. Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M Ant1	2402	5.39	≤30	PASS	
	Ant1	2440	5.63	≤30	PASS
	-	2480	5.62	≤30	PASS



Test Graphs









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.

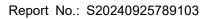
7.4.2. Test Procedure Used

KDB 558074 D01 v05r02 - Section 8.4

ANSI C63.10 - Section 11.10.2

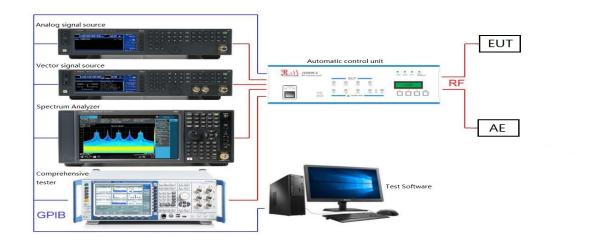
7.4.3. Test Setting

- 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 \geq [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

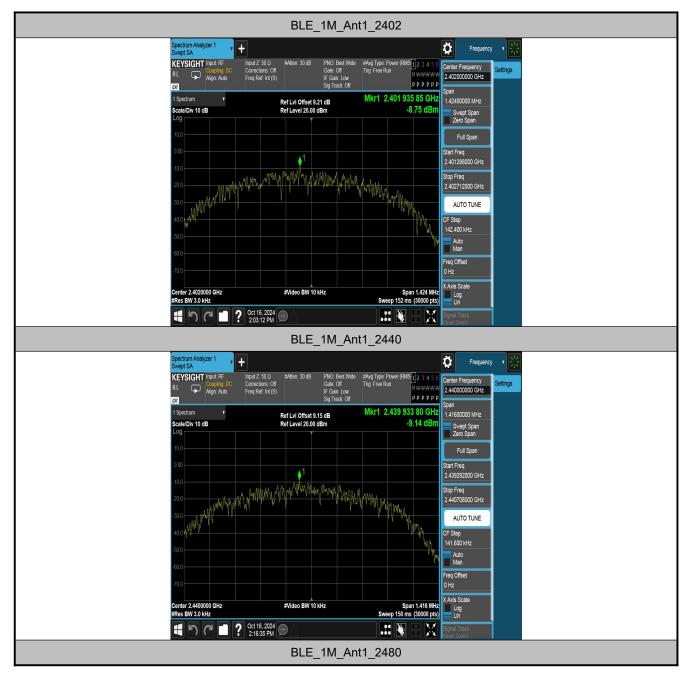




7.4.5. Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M Ant1	2402	-8.75	≤8.00	PASS	
	2440	-9.14	≤8.00	PASS	
	2480	-9.17	≤8.00	PASS	

Test Graphs









7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

7.5.2. Test Procedure Used

KDB 558074 D01 v05r02 - Section 8.5 & Section 8.6

ANSI C63.10 - Section 11.11&11.12

7.5.3. Test Settitng

- (a) Set the center frequency and span to encompass frequency range to be measured
- (b) RBW = 100kHz
- (c) VBW = 300kHz
- (d) Detector = Peak
- (e) Trace mode = max hold
- (f) Sweep time = auto couple
- (g) The trace was allowed to stabilize

7.5.4. Test Setup

