



# FCC RF Test Report

**APPLICANT** : Xiaomi Communications Co., Ltd.  
**EQUIPMENT** : Mobile Phone  
**BRAND NAME** : Xiaomi  
**MODEL NAME** : 25010PN30G  
**FCC ID** : 2AFZZPN30G  
**STANDARD** : FCC Part 15 Subpart C §15.247  
**CLASSIFICATION** : (DTS) Digital Transmission System  
**TEST DATE(S)** : Oct. 12, 2024 ~ Dec. 02, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR4O2501B	Rev. 01	Initial issue of report	Dec. 12, 2024



### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	99% Bandwidth	-	Report only	-
3.2	15.247(b)(3)	Peak Output Power	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	≤ 20dBc	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 8.59 dB at 2487.400 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 16.19 dB at 0.208 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

<b>Conformity Assessment Condition:</b>
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"
<b>Disclaimer:</b>
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 1 General Description

## 1.1 Applicant

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

## 1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	25010PN30G
FCC ID	2AFZZPN30G
IMEI Code	Conducted: 869203070050380/869203070050398 Conduction: 869203070050141/869203070050158 Radiation: 869203070083621/869203070083639
HW Version	135300001
SW Version	Xiaomi HyperOS 2.0
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz
Number of Channels	40
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)
Maximum Output Power to Antenna	<SISO Ant.15> BLE 1Mbps: 8.41 dBm (0.0069 W) BLE 2Mbps: 8.51 dBm (0.0071 W) <SISO Ant.7> BLE 1Mbps: 9.45 dBm (0.0088 W) BLE 2Mbps: 9.56 dBm (0.0090 W)
99% Occupied Bandwidth	BLE 1Mbps:1.019MHz BLE 2Mbps:2.038MHz
Antenna Type / Gain	<Ant .15>PIFA Antenna type with gain -1.20 dBi <Ant .7>PIFA Antenna type with gain -2.30 dBi
Type of Modulation	Bluetooth LE : GFSK

**Note:**

1. BLE 2Mbps does not support three primary advertising channels (CH00/CH12/CH39).
2. Bluetooth LE only support SISO mode.



### 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

### 1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	CO01-KS 03CH08-KS TH01-KS	CN1257	314309

### 1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH08-KS	AUDIX	E3	210616
3.	CO01-KS	AUDIX	E3	6.2009-8-24

### 1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ ANSI C63.10-2013

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 2 Test Configuration of Equipment Under Test

### 2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	0	2402	21	2444
	1	2404	22	2446
	2	2406	23	2448
	3	2408	24	2450
	4	2410	25	2452
	5	2412	26	2454
	6	2414	27	2456
	7	2416	28	2458
	8	2418	29	2460
	9	2420	30	2462
	10	2422	31	2464
	11	2424	32	2466
	12	2426	33	2468
	13	2428	34	2470
	14	2430	35	2472
	15	2432	36	2474
	16	2434	37	2476
	17	2436	38	2478
	18	2438	39	2480
	19	2440	-	-
20	2442	-	-	



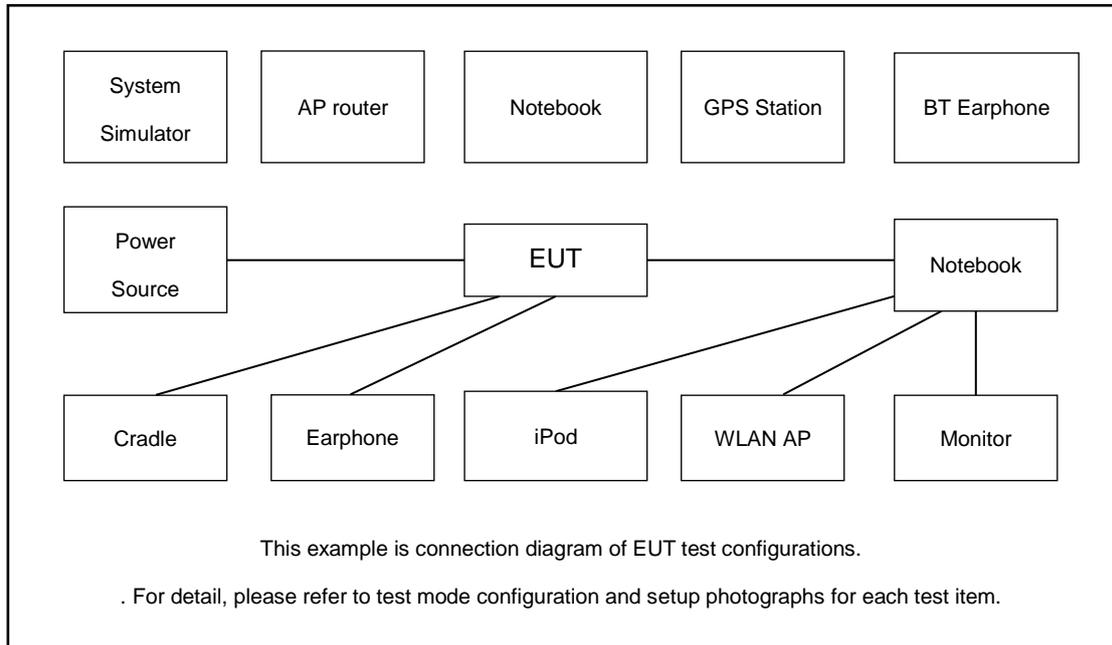
## 2.2 Test Mode

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Summary table of Test Cases	
Test Item	Data Rate / Modulation
	Bluetooth – LE / GFSK
<b>Conducted TCs</b>	Mode 1: Bluetooth Tx CH00_2402 MHz_BLE 1Mbps Mode 2: Bluetooth Tx CH19_2440 MHz_BLE 1Mbps Mode 3: Bluetooth Tx CH39_2480 MHz_BLE 1Mbps Mode 4: Bluetooth Tx CH01_2404 MHz_BLE 2Mbps Mode 5: Bluetooth Tx CH19_2440 MHz_BLE 2Mbps Mode 6: Bluetooth Tx CH38_2478 MHz_BLE 2Mbps
<b>Radiated TCs</b>	Mode 1: Bluetooth Tx CH00_2402 MHz_BLE 1Mbps Mode 2: Bluetooth Tx CH19_2440 MHz_BLE 1Mbps Mode 3: Bluetooth Tx CH39_2480 MHz_BLE 1Mbps Mode 4: Bluetooth Tx CH01_2404 MHz_BLE 2Mbps Mode 5: Bluetooth Tx CH19_2440 MHz_BLE 2Mbps Mode 6: Bluetooth Tx CH38_2478 MHz_BLE 2Mbps
<b>AC Conducted Emission</b>	Mode 1: GSM 850 Idle + Bluetooth Link + WLAN Link (2.4G) + USB Cable (Charging from Adapter )
<b>Remark:</b> For Radiated Test Cases, The tests were performance with Adapter, USB Cable	

## 2.3 Connection Diagram of Test System



## 2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
2.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
3.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A



## 2.5 EUT Operation Test Setup

For BLE function, the engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

## 2.6 Measurement Results Explanation Example

### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 0.8 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 0.8 + 10 = 10.8 \text{ (dB)} \end{aligned}$$

### 3 Test Result

#### 3.1 6dB and 99% Bandwidth Measurement

##### 3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

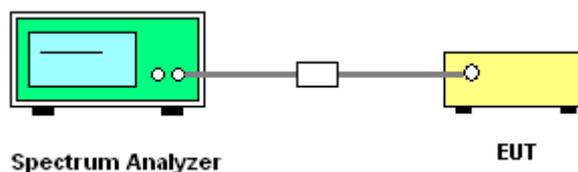
##### 3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

##### 3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the 99% OBW and the VBW is set to 3 times of the RBW.
6. Measure and record the results in the test report.

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

##### 3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

## 3.2 Output Power Measurement

### 3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

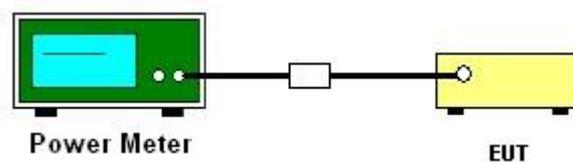
### 3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

### 3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

### 3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

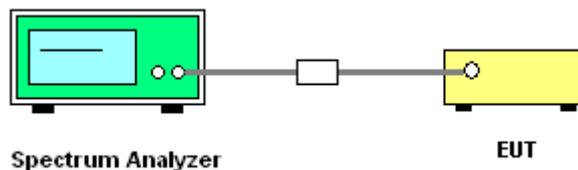
#### 3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

#### 3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

#### 3.3.4 Test Setup



#### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

#### 3.3.6 Test Result of Power Spectral Density Plots (100kHz)

Please refer to Appendix A.

#### 3.3.7 Test Result of Power Spectral Density Plots (3kHz)

Please refer to Appendix A.

## 3.4 Conducted Band Edges and Spurious Emission Measurement

### 3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

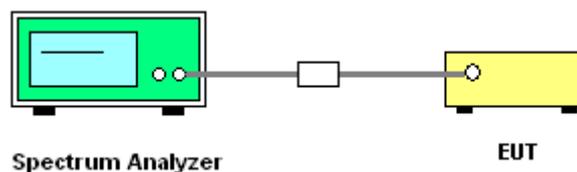
### 3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

### 3.4.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 11.13
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

### 3.4.4 Test Setup



### 3.4.5 Test Result of Conducted Band Edges Plots

Please refer to Appendix A.

### 3.4.6 Test Result of Conducted Spurious Emission Plots

Please refer to Appendix A.



### 3.5 Radiated Band Edges and Spurious Emission Measurement

#### 3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

#### 3.5.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

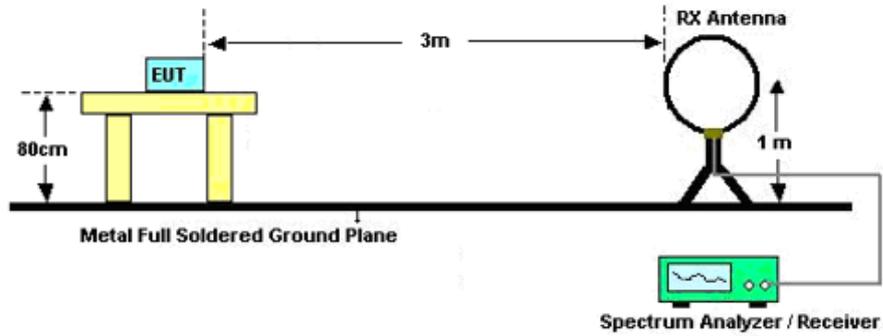


### 3.5.3 Test Procedures

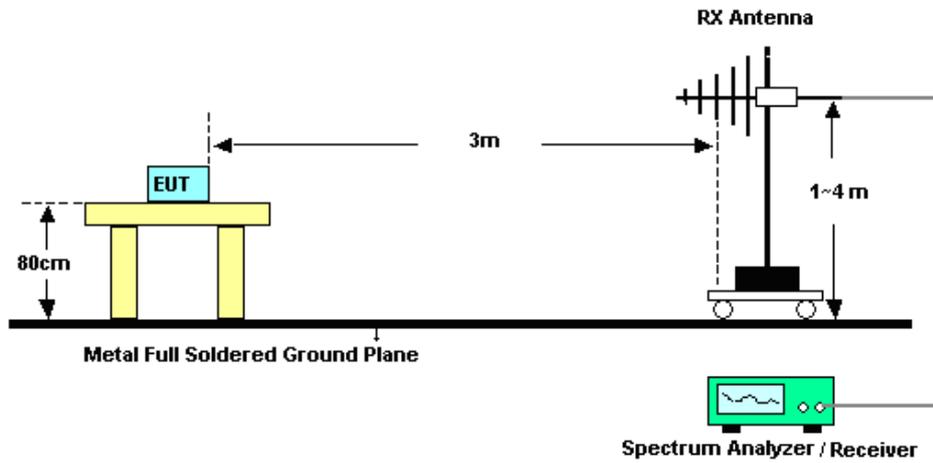
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW=100 kHz for  $f < 1$  GHz;  $VBW \geq RBW$ ; Sweep = auto; Detector function = peak; Trace = max hold;
  - (3) Set RBW = 1 MHz, VBW= 3MHz for  $f \geq 1$  GHz for peak measurement.  
For average measurement:
    - $VBW = 10$  Hz, when duty cycle is no less than 98 percent.
    - $VBW \geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

### 3.5.4 Test Setup

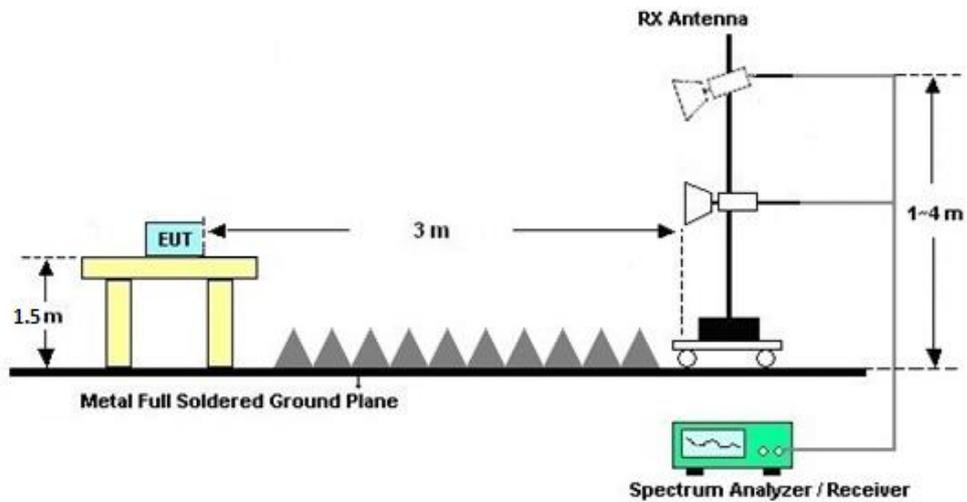
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





### **3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

### **3.5.6 Test Result of Radiated Spurious at Band Edges**

Please refer to Appendix C

### **3.5.7 Duty Cycle**

Please refer to Appendix D.

### **3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)**

Please refer to Appendix C



### 3.6 AC Conducted Emission Measurement

#### 3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBµV)	
	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.

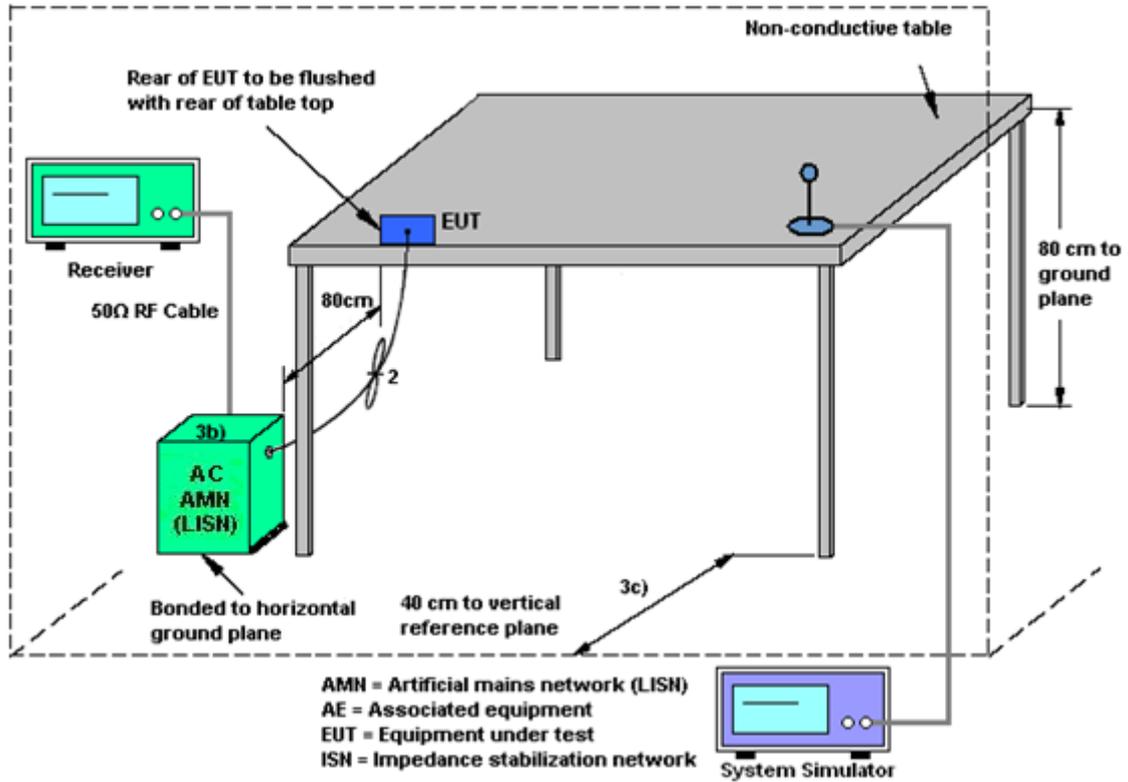
#### 3.6.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

#### 3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

### 3.6.4 Test Setup



### 3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## 3.7 Antenna Requirements

### 3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

### 3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

### 3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV30	101338	10Hz~30GHz	Oct. 21, 2024	Nov. 11, 2024 ~Nov. 25, 2024	Oct. 20, 2025	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Nov. 11, 2024 ~Nov. 25, 2024	Oct. 09, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Nov. 11, 2024 ~Nov. 25, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz;Max 30dBm	Jan. 02, 2024	Oct. 12, 2024 ~Dec. 02, 2024	Jan. 01, 2025	Radiation (03CH08-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57441079	10Hz~44GHz	Oct. 09, 2024	Oct. 12, 2024 ~Dec. 02, 2024	Oct. 08, 2025	Radiation (03CH08-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Oct. 12, 2024 ~Dec. 02, 2024	Sep. 07, 2025	Radiation (03CH08-KS)
Bilog Antenna	TESEQ	CBL 6111D	59915	30MHz~1GHz	Aug. 18, 2024	Oct. 12, 2024 ~Dec. 02, 2024	Aug.17, 2025	Radiation (03CH08-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240138	1GHz~18GHz	Jul. 06, 2024	Oct. 12, 2024 ~Dec. 02, 2024	Jul. 05, 2025	Radiation (03CH08-KS)
high gain Amplifier	EM	EM01G18GA	060845	1Ghz~18Ghz	Jan. 03, 2024	Oct. 12, 2024 ~Dec. 02, 2024	Jan. 02, 2025	Radiation (03CH08-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Oct. 12, 2024 ~Dec. 02, 2024	Jan. 26, 2025	Radiation (03CH08-KS)
Amplifier	SONOMA	310N	413741	9KHz~1GHz	Jan. 02, 2024	Oct. 12, 2024 ~Dec. 02, 2024	Jan. 01, 2025	Radiation (03CH08-KS)
Amplifier	Keysight	83017A	MY53270417	500MHz~26.5GHz	Oct. 09, 2024	Oct. 12, 2024 ~Dec. 02, 2024	Oct. 08, 2025	Radiation (03CH08-KS)
Amplifier	EM	EM18G40GGA	060728	18~40GHz	Jan. 02, 2024	Oct. 12, 2024 ~Dec. 02, 2024	Jan. 01, 2025	Radiation (03CH08-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Oct. 12, 2024 ~Dec. 02, 2024	NCR	Radiation (03CH08-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Oct. 12, 2024 ~Dec. 02, 2024	NCR	Radiation (03CH08-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Oct. 12, 2024 ~Dec. 02, 2024	NCR	Radiation (03CH08-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Nov. 11, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 20, 2024	Nov. 11, 2024	Aug. 19, 2025	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Nov. 11, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Nov. 11, 2024	Oct. 8, 2025	Conduction (CO01-KS)

NCR: No Calibration Required



## 5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	±2.26 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.46 dB
Conducted Power Spectral Density	±0.88 dB
Frequency	±0.4 Hz

### Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84dB
---------------------------------------------------------------------	--------

### Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.30dB
---------------------------------------------------------------------	--------

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.04dB
---------------------------------------------------------------------	--------

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.26dB
---------------------------------------------------------------------	--------

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.40dB
---------------------------------------------------------------------	--------

----- THE END -----



## **Appendix A. Conducted Test Results**



Ambient Condition: <u>25</u> °C, <u>45</u> %RH	
Test Date: <u>2024.11.11~2024.11.25</u>	Test Engineer: <u>Jiang Jun</u>

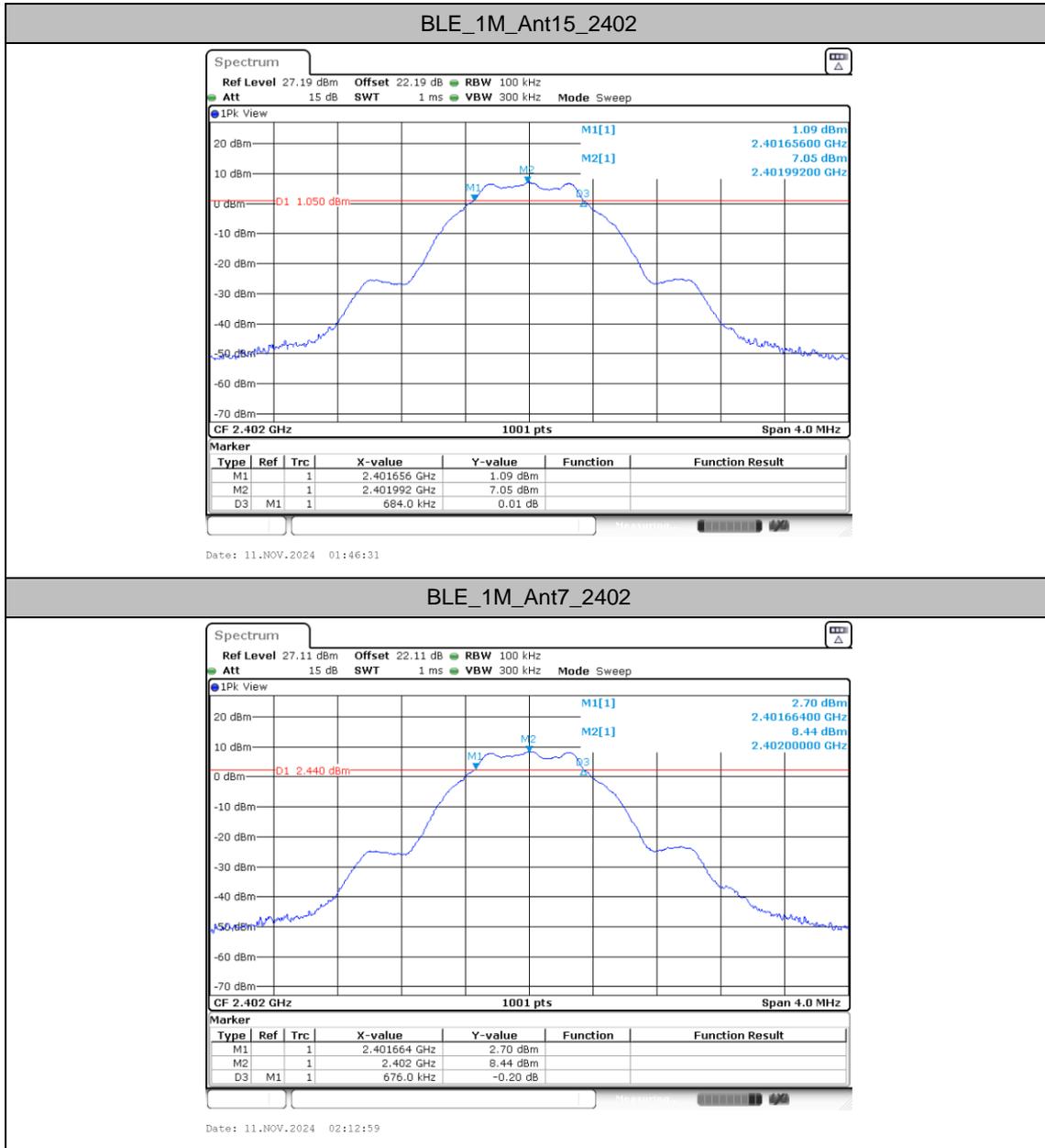
### DTS Bandwidth

#### Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant15	2402	0.68	2401.66	2402.34	0.5	PASS
	Ant7	2402	0.68	2401.66	2402.34	0.5	PASS
	Ant15	2440	0.68	2439.66	2440.34	0.5	PASS
	Ant7	2440	0.68	2439.66	2440.34	0.5	PASS
	Ant15	2480	0.68	2479.66	2480.34	0.5	PASS
	Ant7	2480	0.68	2479.66	2480.34	0.5	PASS
BLE_2M	Ant15	2404	1.16	2403.42	2404.58	0.5	PASS
	Ant7	2404	1.16	2403.43	2404.58	0.5	PASS
	Ant15	2440	1.16	2439.42	2440.58	0.5	PASS
	Ant7	2440	1.16	2439.42	2440.58	0.5	PASS
	Ant15	2478	1.16	2477.42	2478.59	0.5	PASS
	Ant7	2478	1.16	2477.42	2478.58	0.5	PASS

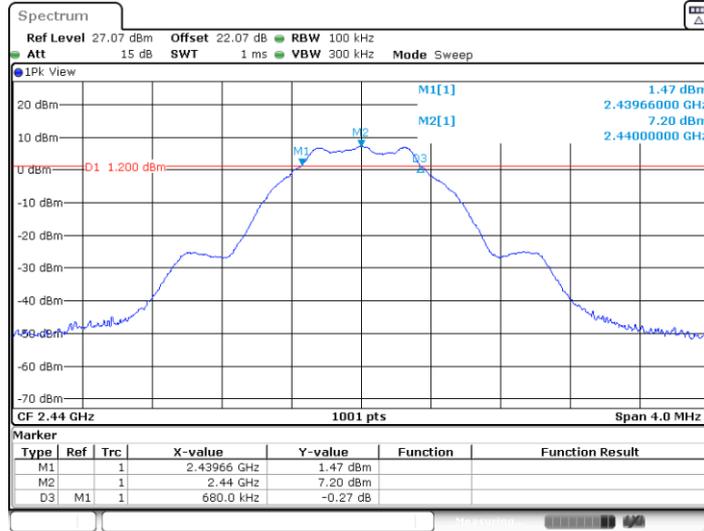


Test Graphs



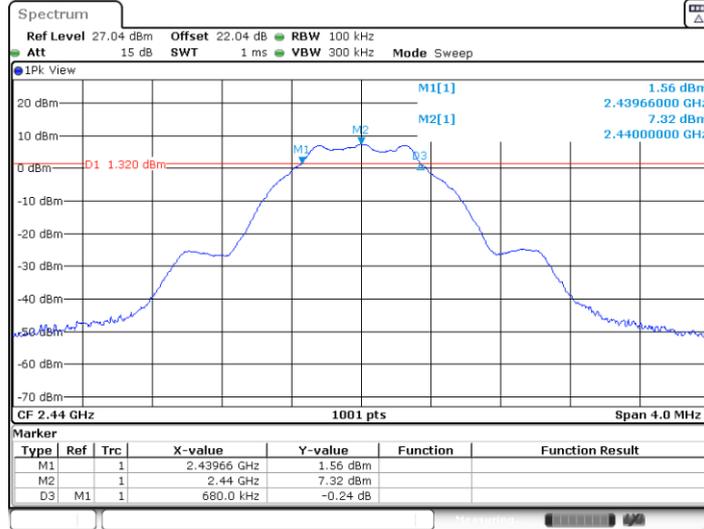


BLE\_1M\_Ant15\_2440



Date: 11.NOV.2024 01:48:50

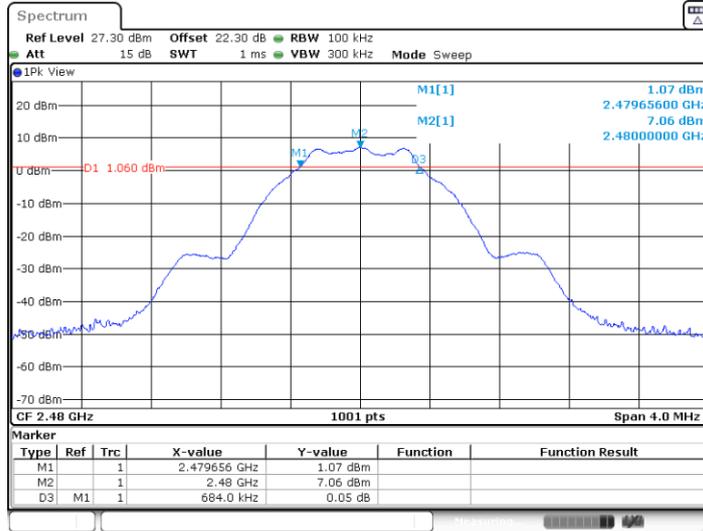
BLE\_1M\_Ant7\_2440



Date: 11.NOV.2024 02:20:06

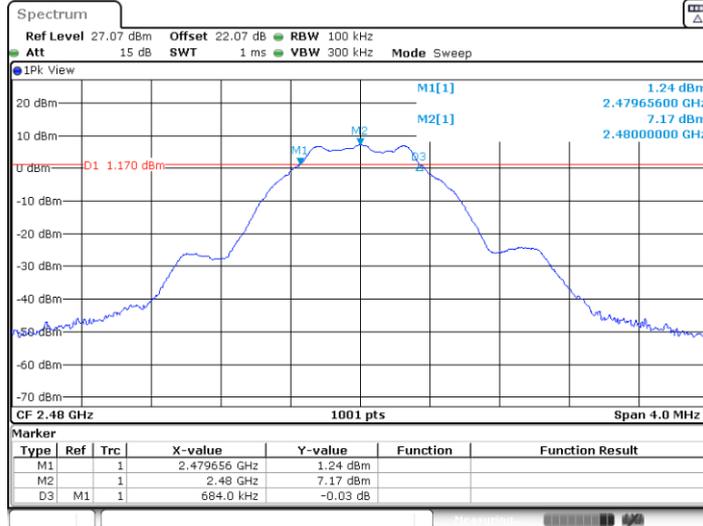


BLE\_1M\_Ant15\_2480



Date: 11.NOV.2024 01:50:20

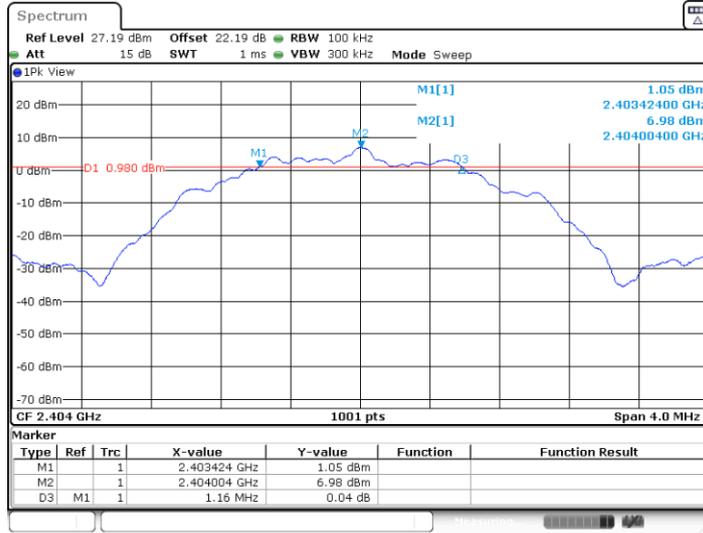
BLE\_1M\_Ant7\_2480



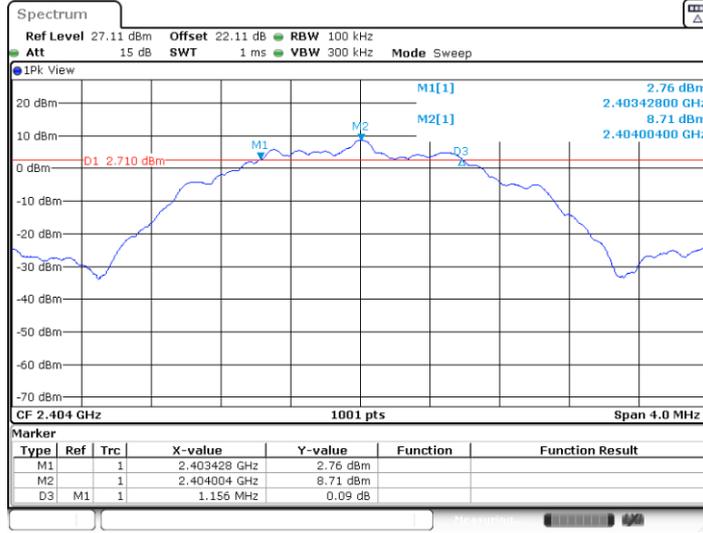
Date: 11.NOV.2024 02:22:04



BLE\_2M\_Ant15\_2404

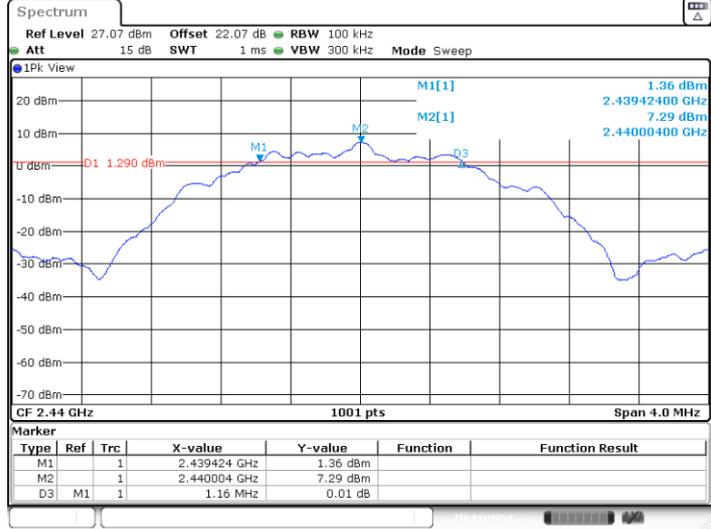


BLE\_2M\_Ant7\_2404



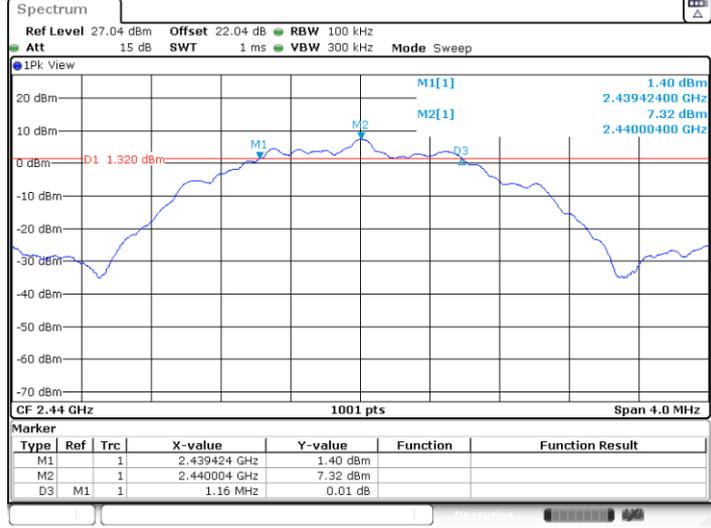


BLE\_2M\_Ant15\_2440



Date: 11.NOV.2024 02:06:25

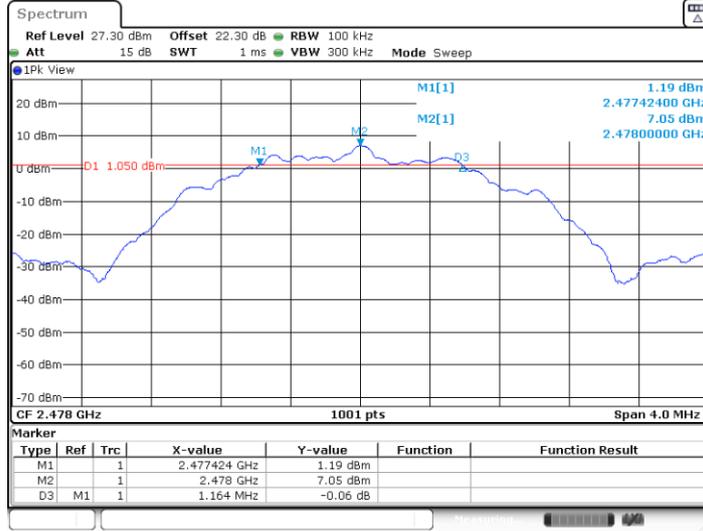
BLE\_2M\_Ant7\_2440



Date: 11.NOV.2024 02:26:26

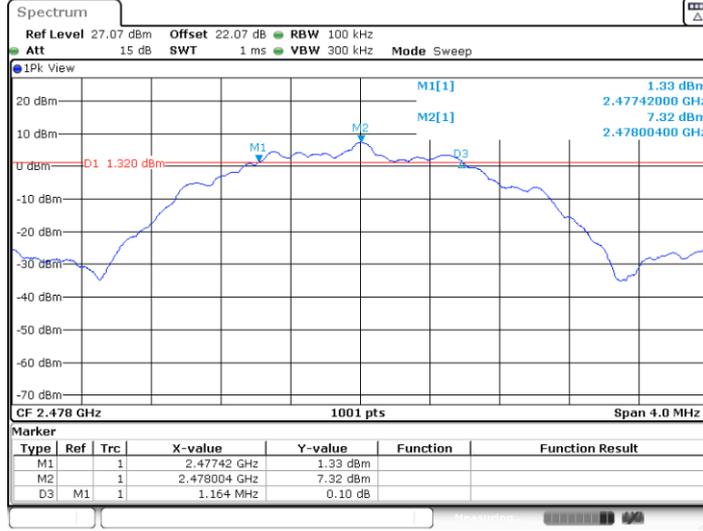


BLE\_2M\_Ant15\_2478



Date: 11.NOV.2024 02:07:58

BLE\_2M\_Ant7\_2478



Date: 11.NOV.2024 02:28:09



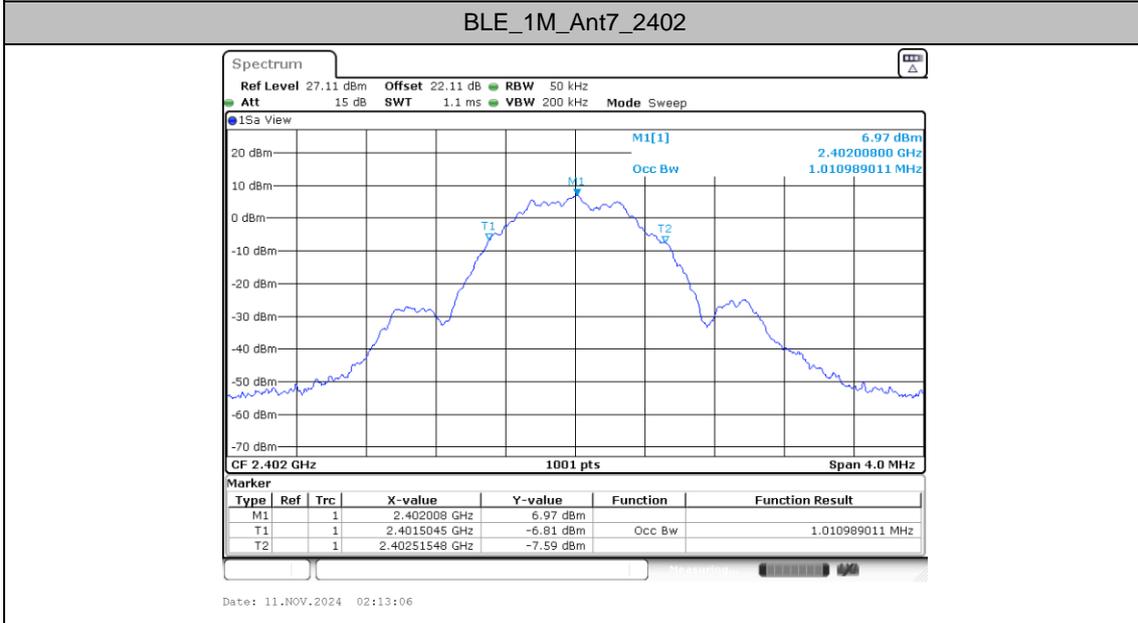
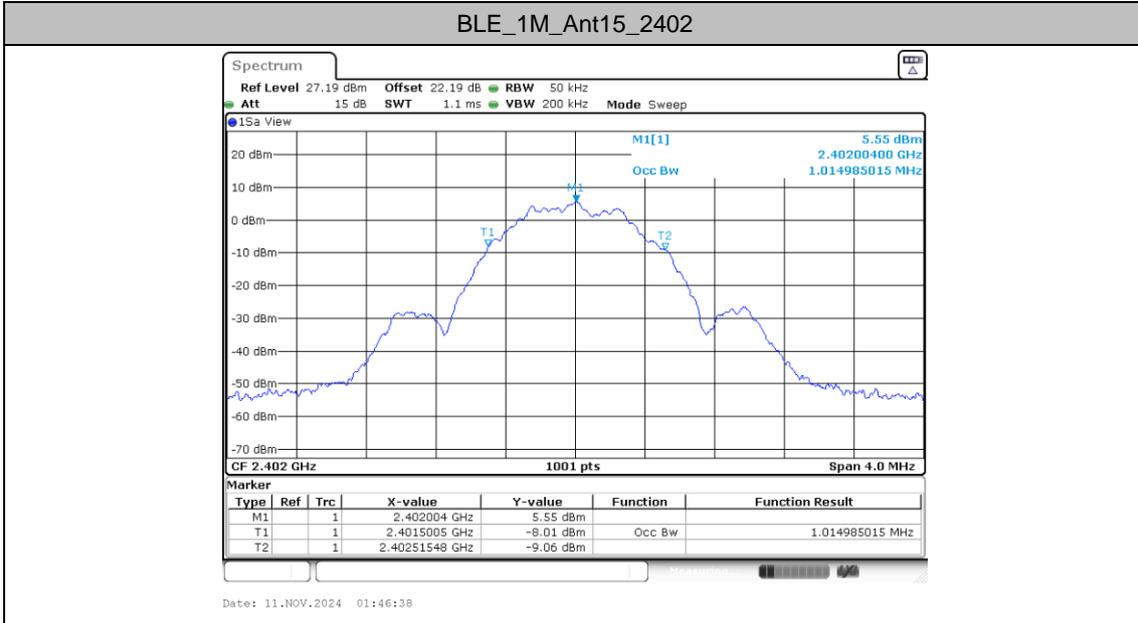
### Occupied Channel Bandwidth

#### Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant15	2402	1.015	2401.5005	2402.5155	---	---
	Ant7	2402	1.011	2401.5045	2402.5155	---	---
	Ant15	2440	1.015	2439.5005	2440.5155	---	---
	Ant7	2440	1.015	2439.5005	2440.5155	---	---
	Ant15	2480	1.015	2479.5005	2480.5155	---	---
	Ant7	2480	1.019	2479.4965	2480.5155	---	---
BLE_2M	Ant15	2404	2.034	2403.0010	2405.0350	---	---
	Ant7	2404	2.03	2403.0050	2405.0350	---	---
	Ant15	2440	2.034	2439.0010	2441.0350	---	---
	Ant7	2440	2.034	2439.0010	2441.0350	---	---
	Ant15	2478	2.034	2477.0010	2479.0350	---	---
	Ant7	2478	2.038	2476.9970	2479.0350	---	---

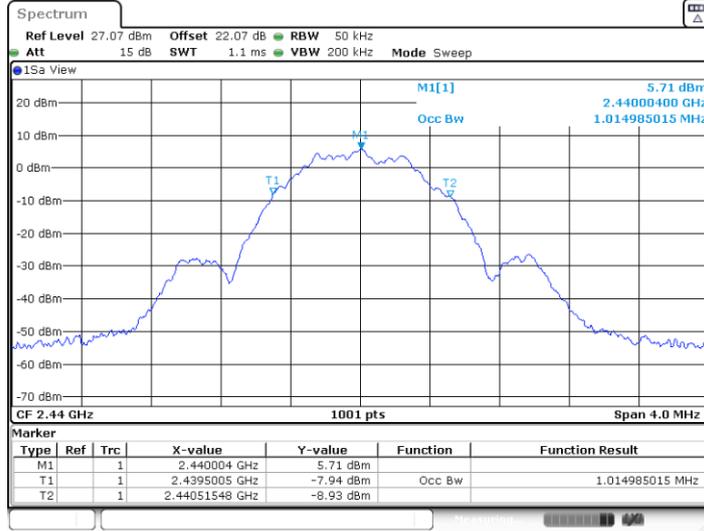


Test Graphs



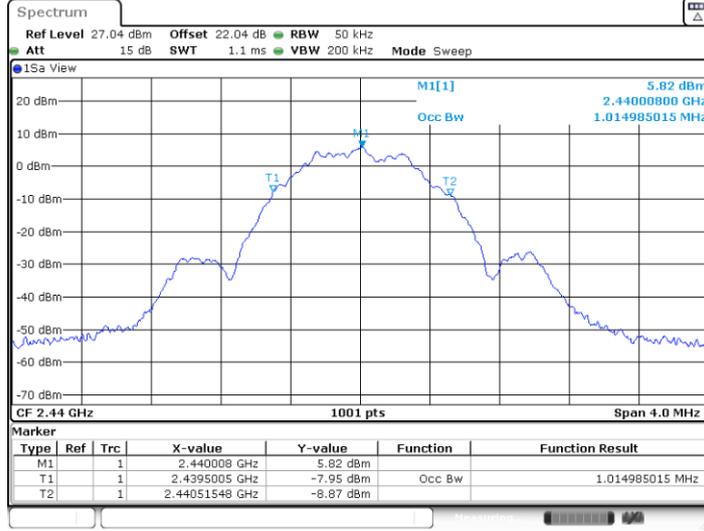


BLE\_1M\_Ant15\_2440



Date: 11.NOV.2024 01:49:01

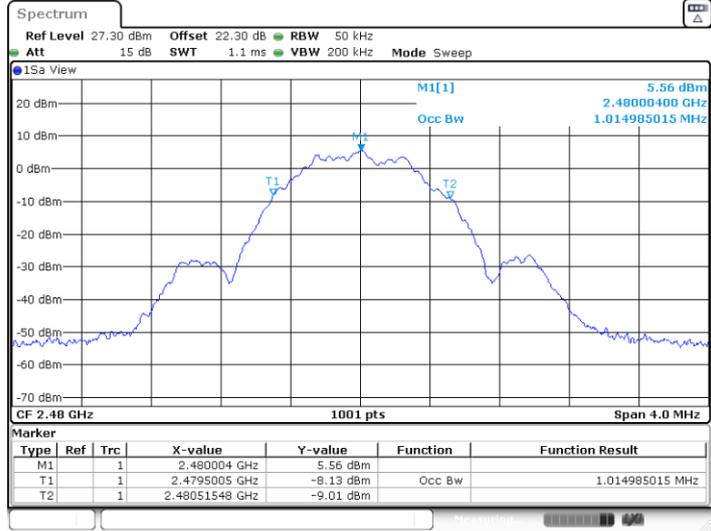
BLE\_1M\_Ant7\_2440



Date: 11.NOV.2024 02:20:17

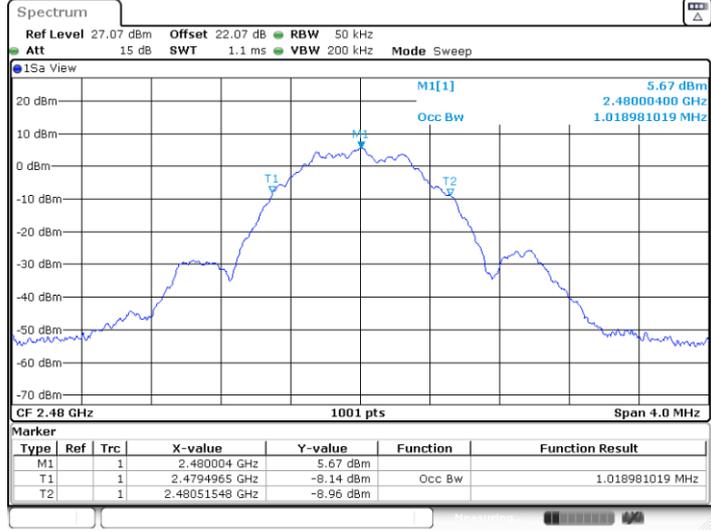


BLE\_1M\_Ant15\_2480



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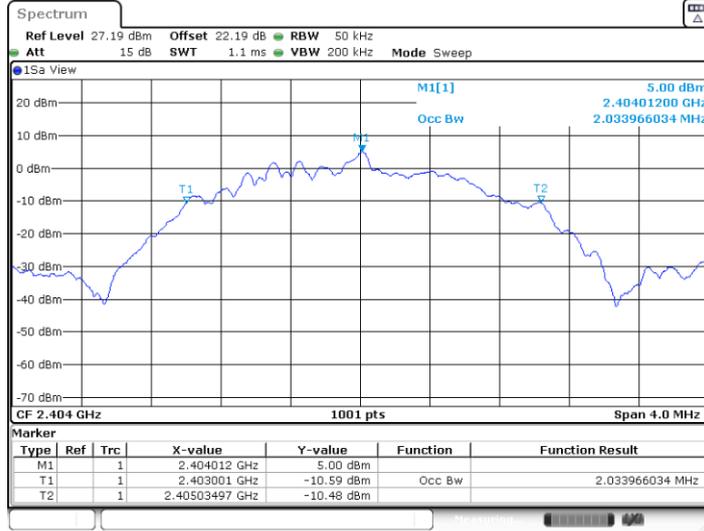
BLE\_1M\_Ant7\_2480



Date: 11.NOV.2024 02:22:13

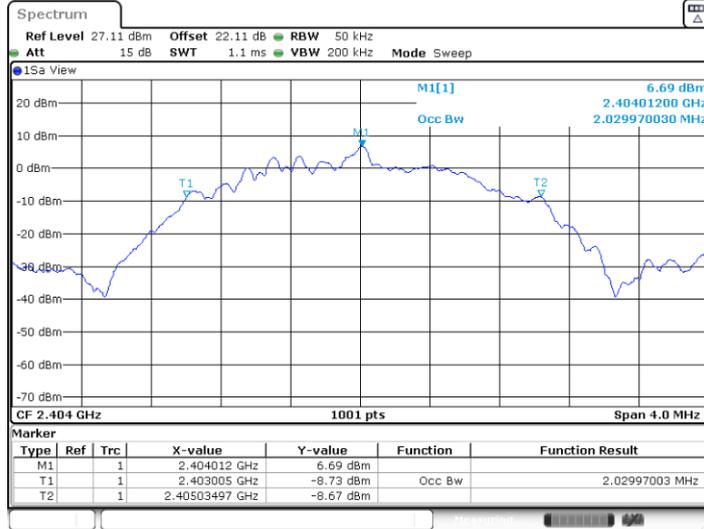


BLE\_2M\_Ant15\_2404



Date: 11.NOV.2024 01:58:04

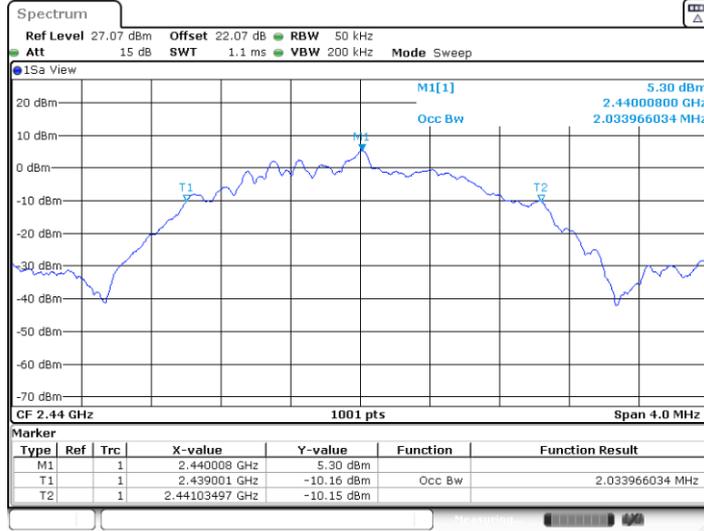
BLE\_2M\_Ant7\_2404



Date: 11.NOV.2024 02:24:19

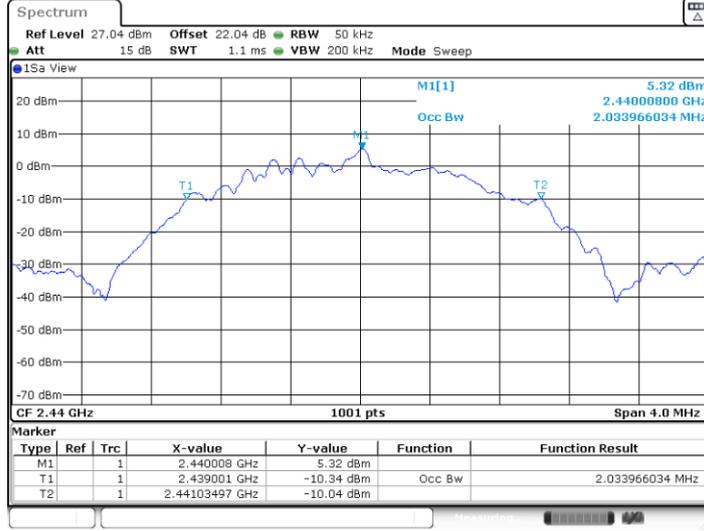


BLE\_2M\_Ant15\_2440



Date: 11.NOV.2024 02:06:36

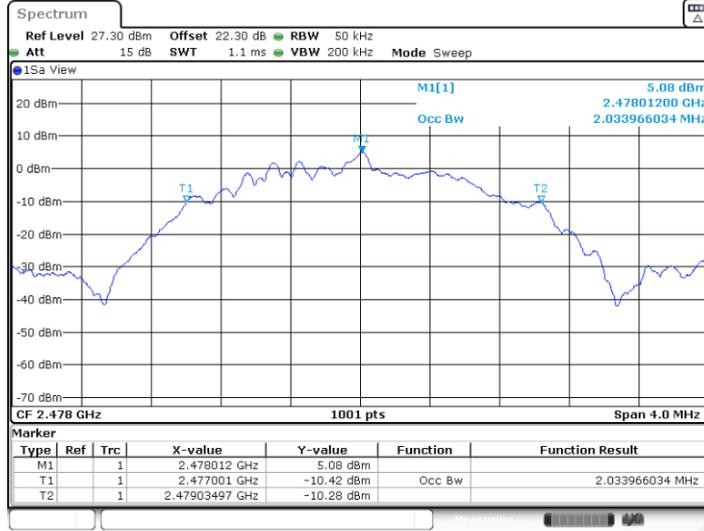
BLE\_2M\_Ant7\_2440



Date: 11.NOV.2024 02:26:37

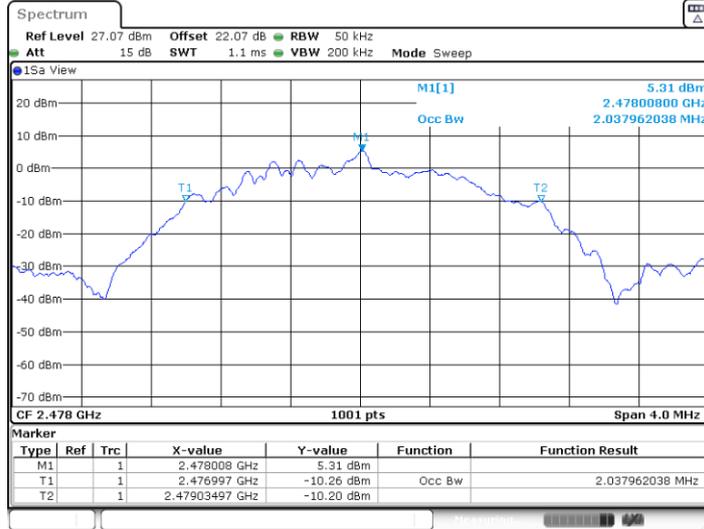


BLE\_2M\_Ant15\_2478



Date: 11.NOV.2024 02:08:09

BLE\_2M\_Ant7\_2478



Date: 11.NOV.2024 02:28:20



### Maximum conducted output power

#### Test Result Peak

TestMode	Antenna	CH.	Peak Conducted Power (dBm)	Conducted Power Limit	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit	Pass/Fail
BLE1M	Ant15	0	8.13	30.00	-1.2	6.93	36.00	Pass
		19	<b>8.41</b>	30.00	-1.2	<b>7.21</b>	36.00	Pass
		39	8.15	30.00	-1.2	6.95	36.00	Pass
BLE2M	Ant15	1	8.22	30.00	-1.2	7.02	36.00	Pass
		19	<b>8.51</b>	30.00	-1.2	<b>7.31</b>	36.00	Pass
		38	8.23	30.00	-1.2	7.03	36.00	Pass
BLE1M	Ant7	0	<b>9.45</b>	30.00	-2.3	<b>7.15</b>	36.00	Pass
		19	8.61	30.00	-2.3	6.31	36.00	Pass
		39	8.39	30.00	-2.3	6.09	36.00	Pass
BLE2M	Ant7	1	<b>9.56</b>	30.00	-2.3	<b>7.26</b>	36.00	Pass
		19	8.68	30.00	-2.3	6.38	36.00	Pass
		38	8.45	30.00	-2.3	6.15	36.00	Pass

#### Test Result Average

TestMode	Antenna	CH.	Duty Factor (dB)	Average Conducted Power (dBm)
BLE1M	Ant15	0	2.05	8.07
		19	2.05	<b>8.34</b>
		39	2.05	8.08
BLE2M	Ant15	1	4.77	8.18
		19	4.77	<b>8.44</b>
		38	4.77	8.16
BLE1M	Ant7	0	2.04	<b>9.39</b>
		19	2.04	8.48
		39	2.04	8.26
BLE2M	Ant7	1	4.83	<b>9.31</b>
		19	4.83	8.55
		38	4.83	8.36



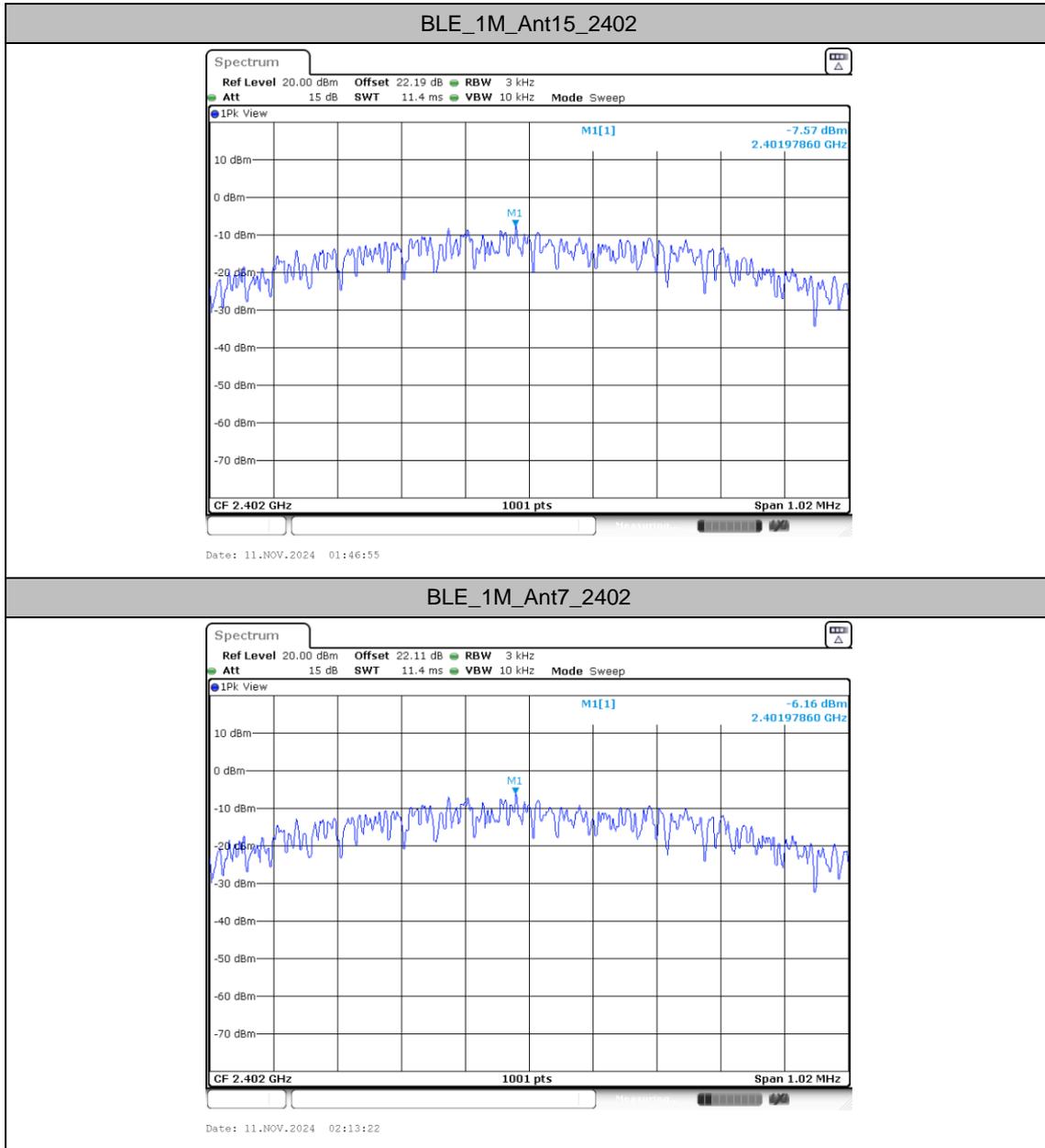
### Maximum power spectral density

#### Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant15	2402	-7.57	≤8.00	PASS
	Ant7	2402	-6.16	≤8.00	PASS
	Ant15	2440	-7.39	≤8.00	PASS
	Ant7	2440	-7.30	≤8.00	PASS
	Ant15	2480	-7.52	≤8.00	PASS
	Ant7	2480	-7.47	≤8.00	PASS
BLE_2M	Ant15	2404	-9.87	≤8.00	PASS
	Ant7	2404	-8.22	≤8.00	PASS
	Ant15	2440	-9.56	≤8.00	PASS
	Ant7	2440	-9.56	≤8.00	PASS
	Ant15	2478	-9.78	≤8.00	PASS
	Ant7	2478	-9.60	≤8.00	PASS

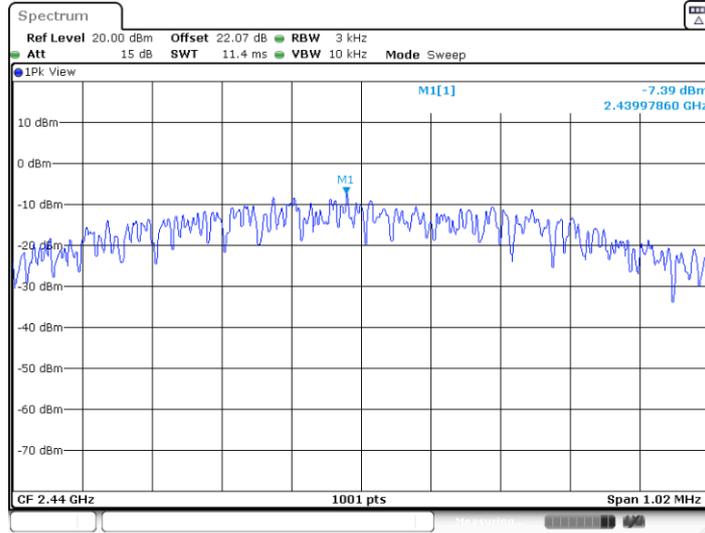


### Test Graphs



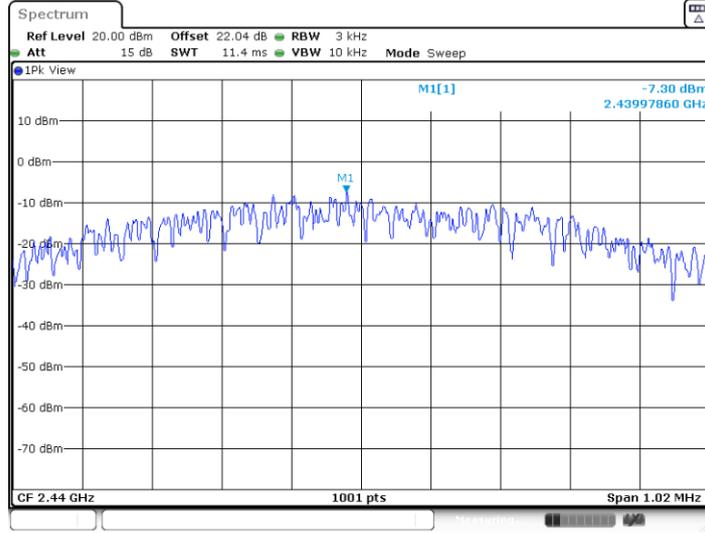


BLE\_1M\_Ant15\_2440



Date: 11.NOV.2024 01:49:16

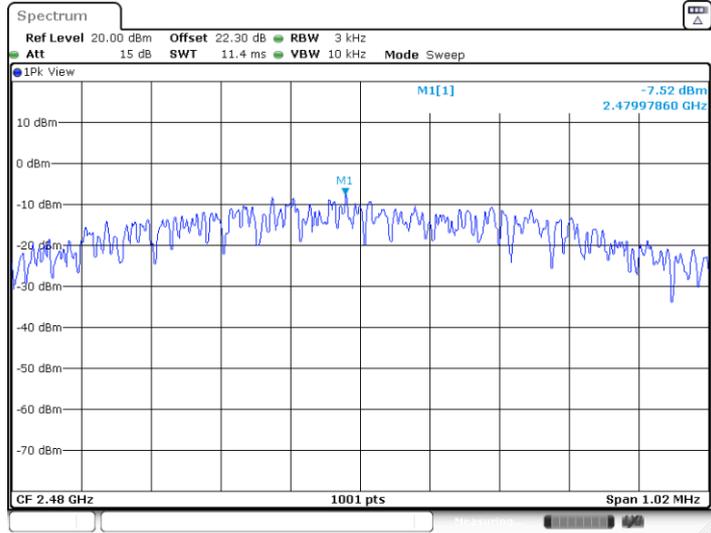
BLE\_1M\_Ant7\_2440



Date: 11.NOV.2024 02:20:34

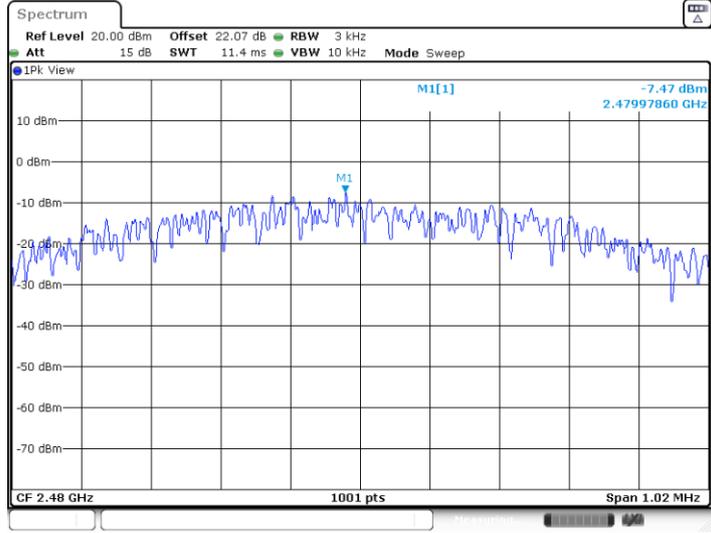


BLE\_1M\_Ant15\_2480



Date: 11.NOV.2024 01:50:47

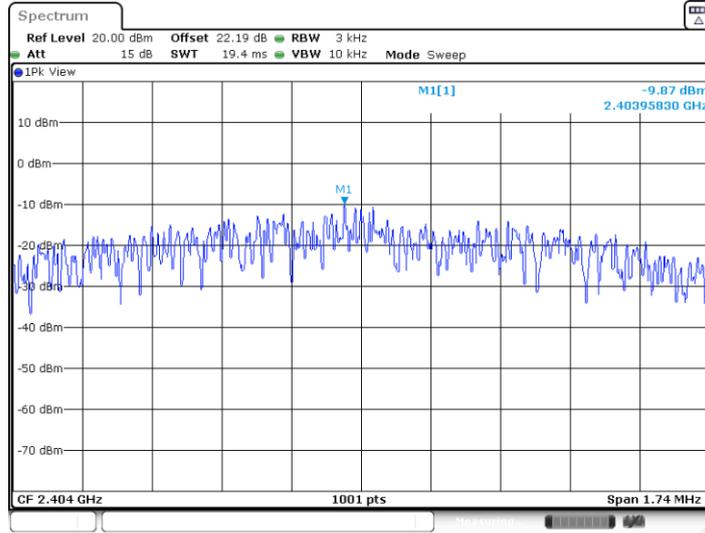
BLE\_1M\_Ant7\_2480



Date: 11.NOV.2024 02:22:30

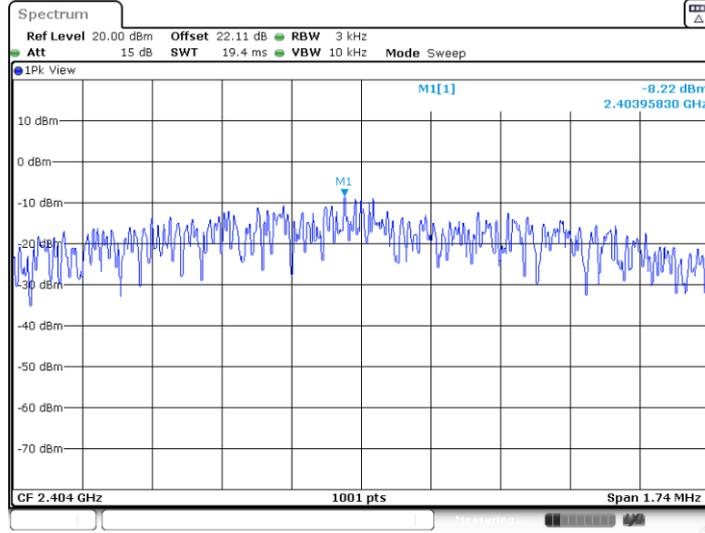


BLE\_2M\_Ant15\_2404



Date: 11.NOV.2024 01:58:20

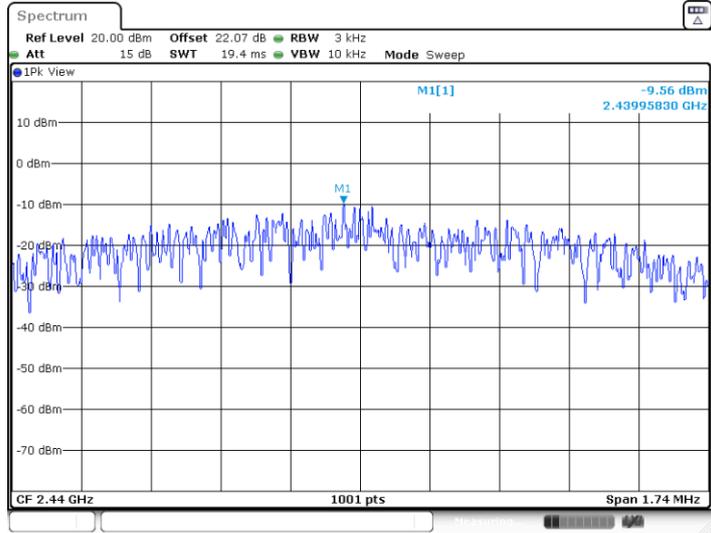
BLE\_2M\_Ant7\_2404



Date: 11.NOV.2024 02:24:36

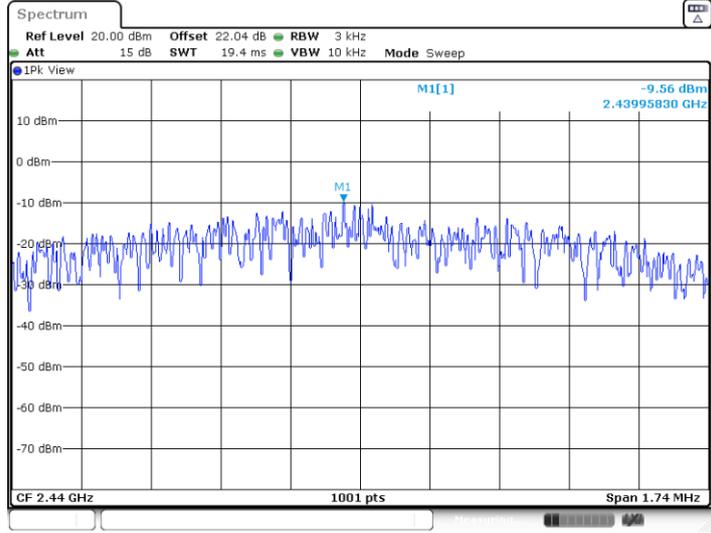


BLE\_2M\_Ant15\_2440



Date: 11.NOV.2024 02:06:53

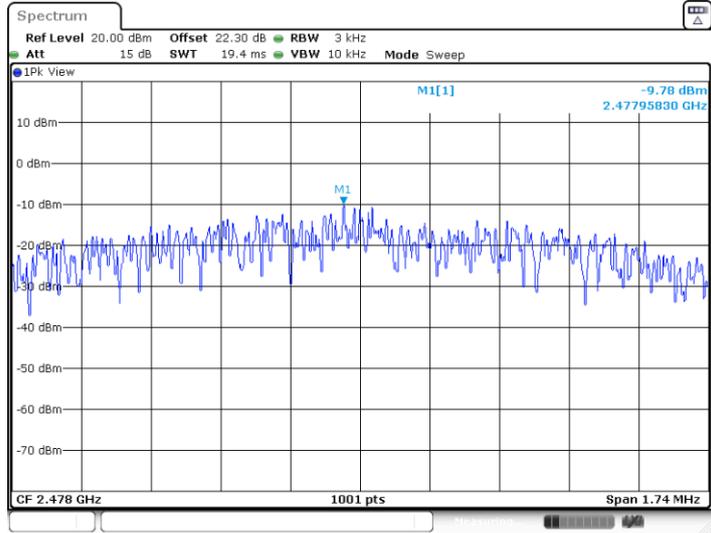
BLE\_2M\_Ant7\_2440



Date: 11.NOV.2024 02:26:54

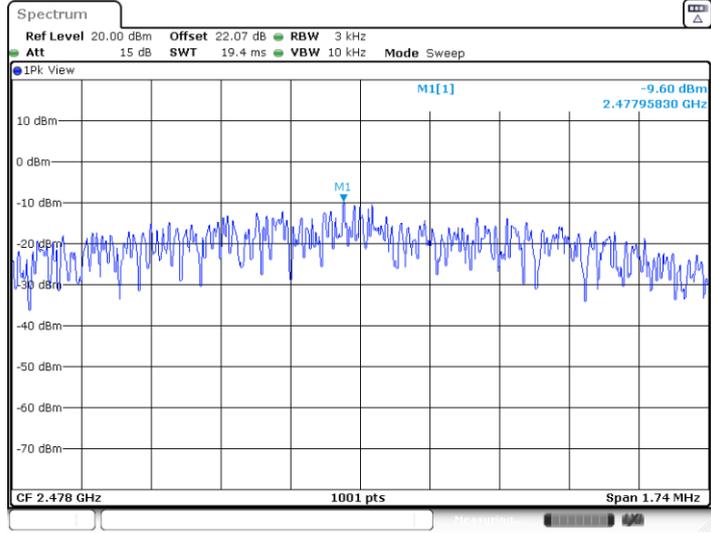


BLE\_2M\_Ant15\_2478



Date: 11.NOV.2024 02:08:25

BLE\_2M\_Ant7\_2478



Date: 11.NOV.2024 02:28:37



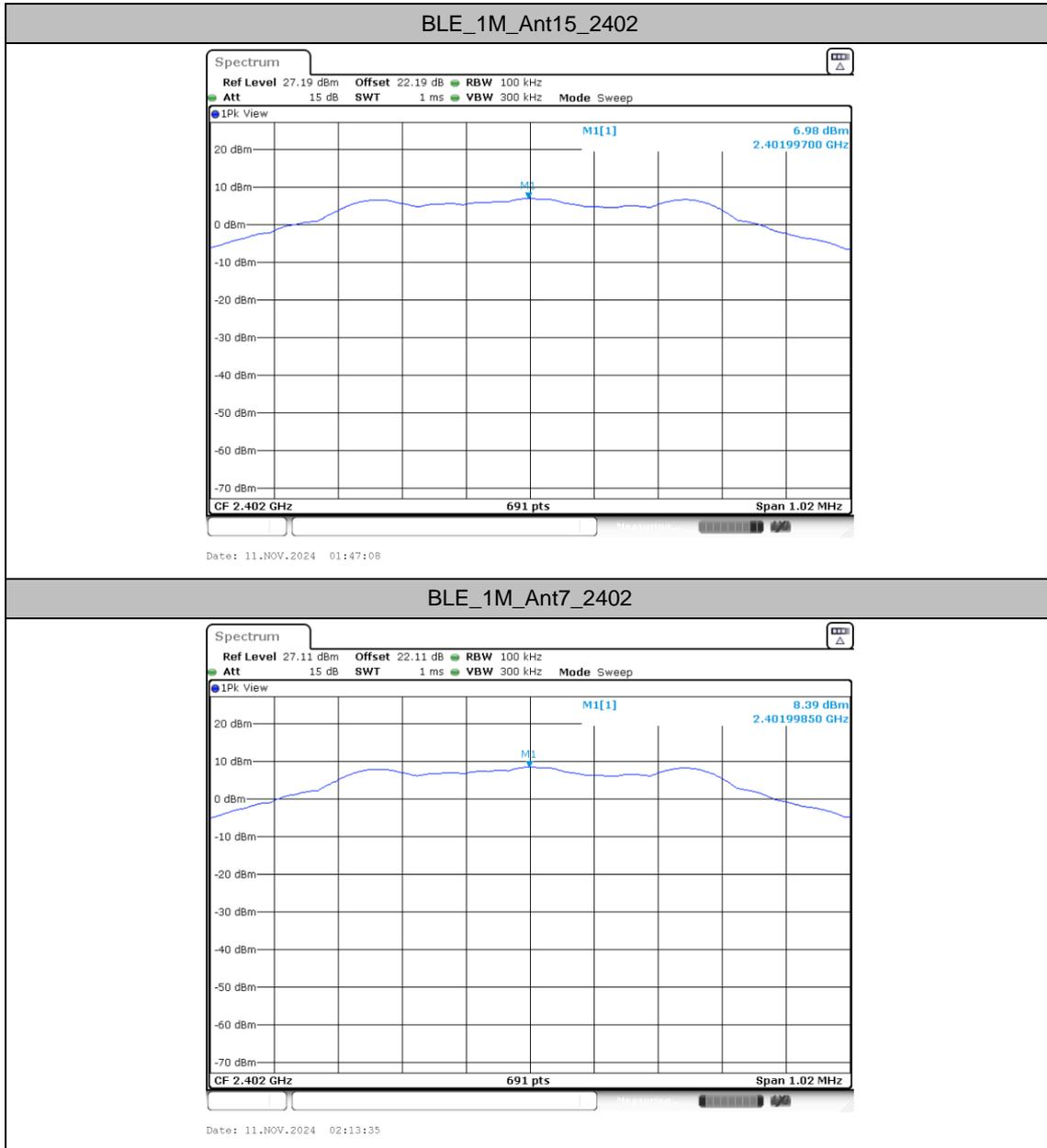
### Reference level measurement

#### Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm/100KHz]
BLE_1M	Ant15	2402	2402.00	6.98
	Ant7	2402	2402.00	8.39
	Ant15	2440	2440.00	7.14
	Ant7	2440	2440.00	7.24
	Ant15	2480	2480.00	6.99
	Ant7	2480	2480.00	7.12
BLE_2M	Ant15	2404	2404.00	6.97
	Ant7	2404	2404.00	8.68
	Ant15	2440	2440.00	7.25
	Ant7	2440	2440.00	7.31
	Ant15	2478	2478.00	7.02
	Ant7	2478	2478.00	7.31

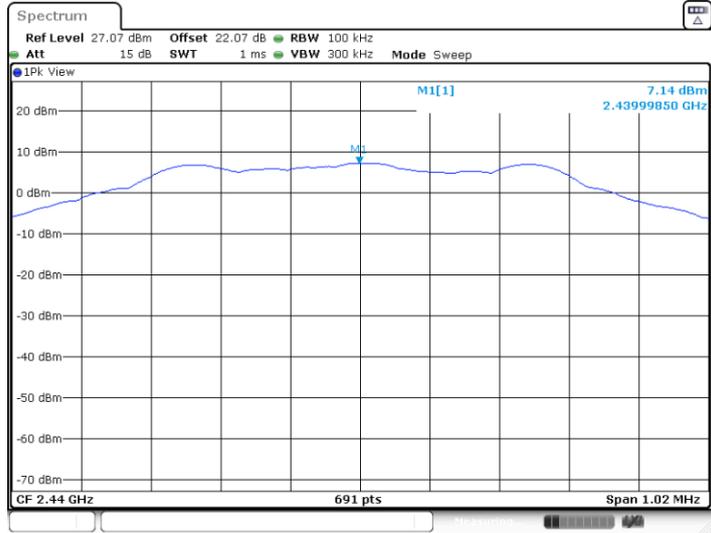


### Test Graphs



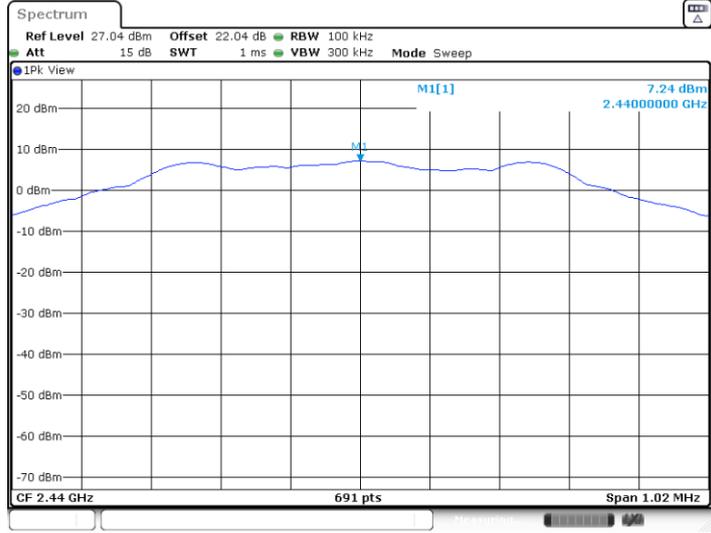


BLE\_1M\_Ant15\_2440



Date: 11.NOV.2024 01:49:28

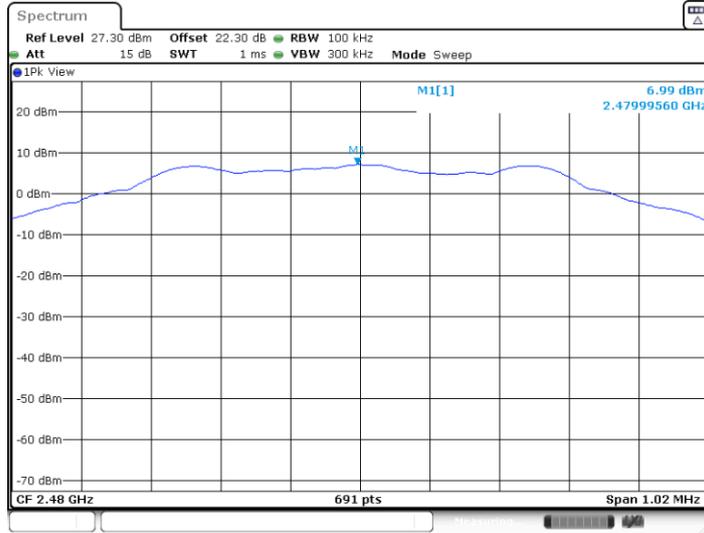
BLE\_1M\_Ant7\_2440



Date: 11.NOV.2024 02:20:46

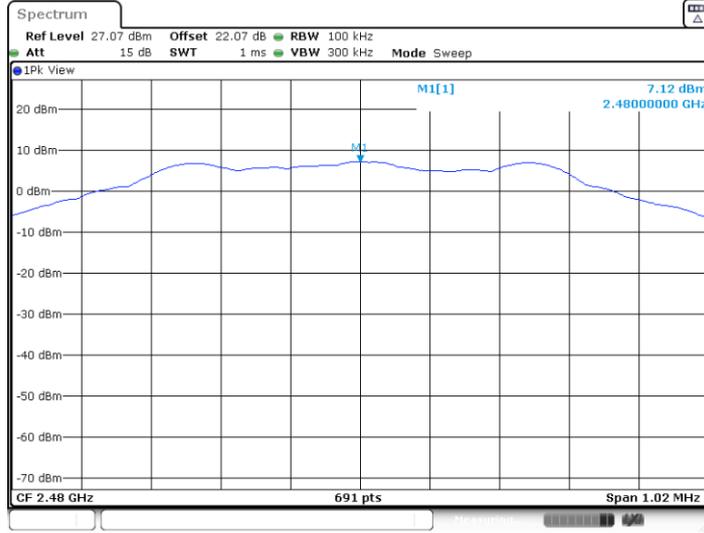


BLE\_1M\_Ant15\_2480



Date: 11.NOV.2024 01:50:59

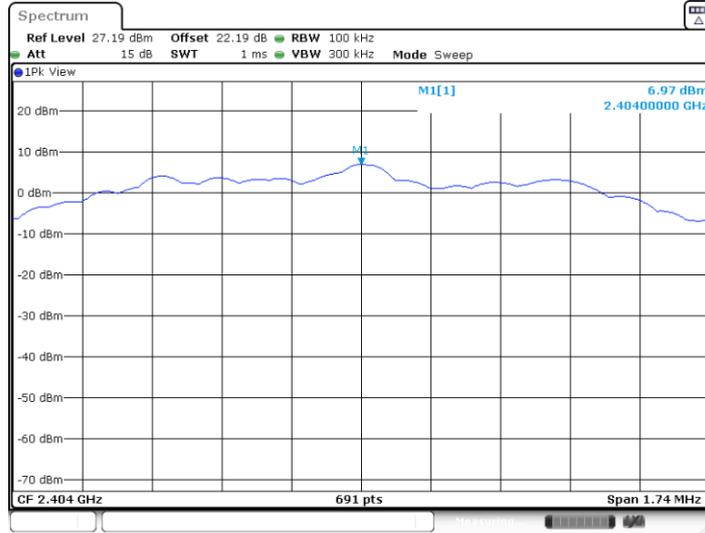
BLE\_1M\_Ant7\_2480



Date: 11.NOV.2024 02:22:42

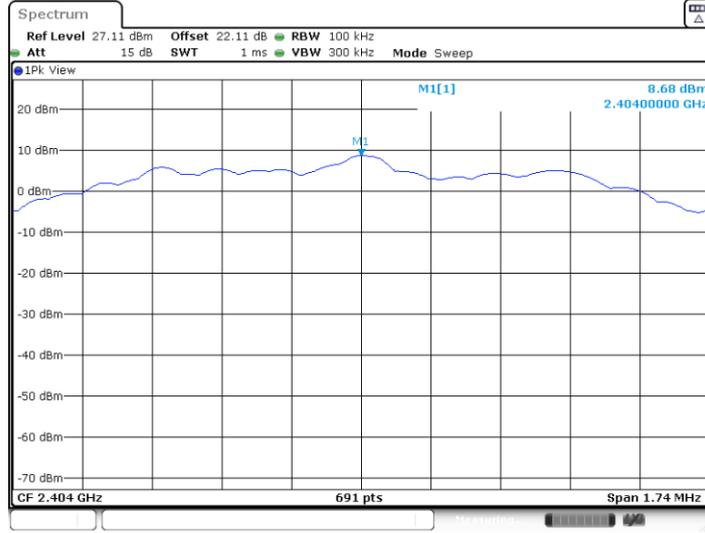


BLE\_2M\_Ant15\_2404



Date: 11.NOV.2024 01:58:32

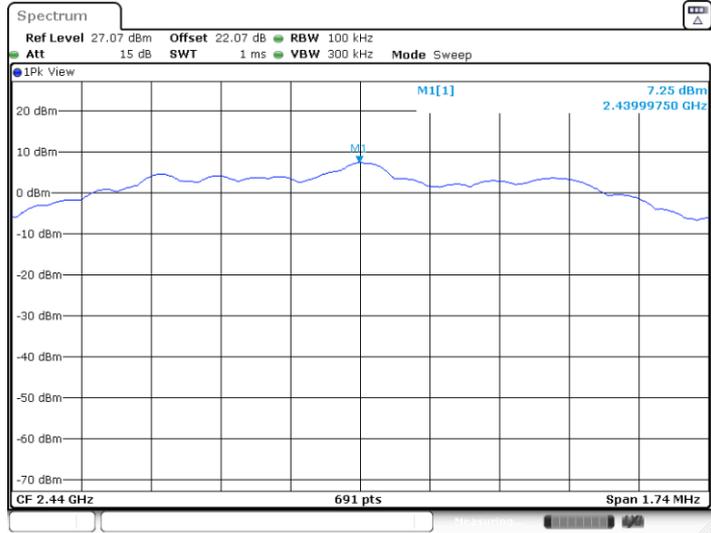
BLE\_2M\_Ant7\_2404



Date: 11.NOV.2024 02:24:49

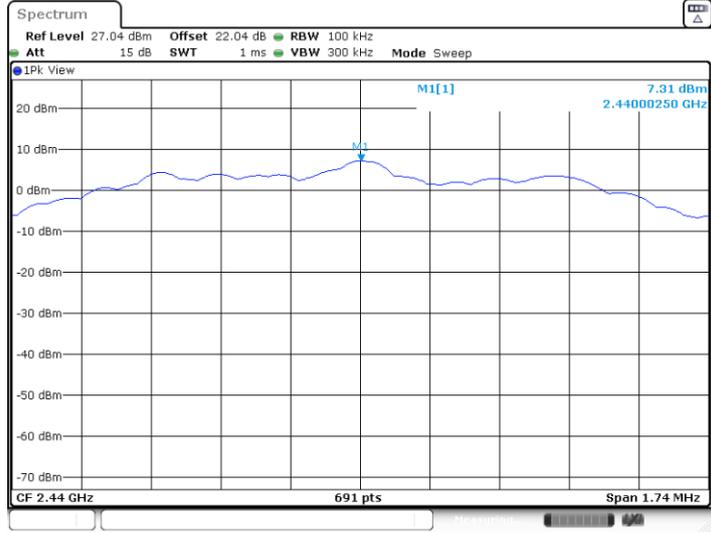


BLE\_2M\_Ant15\_2440



Date: 11.NOV.2024 02:07:06

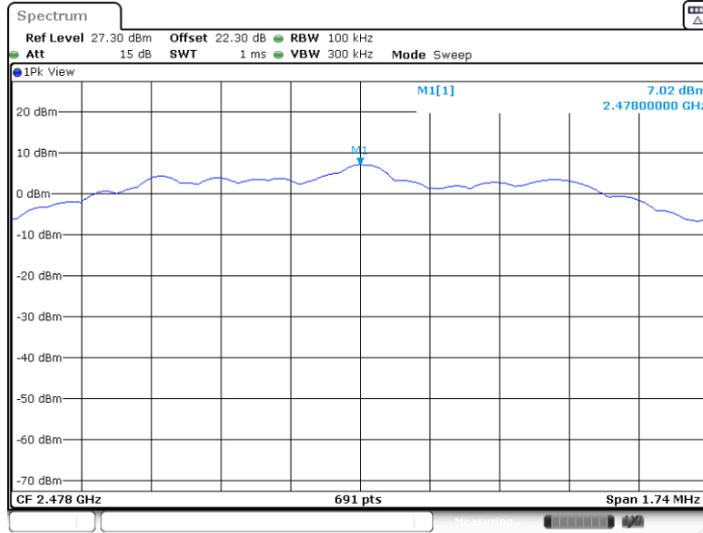
BLE\_2M\_Ant7\_2440



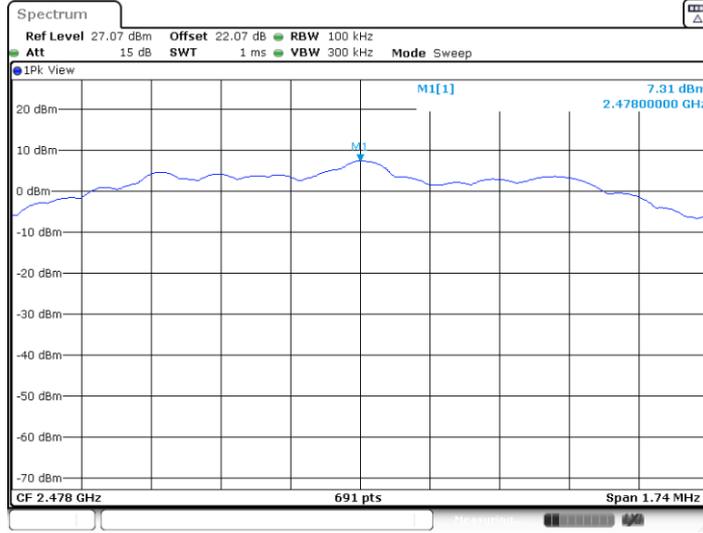
Date: 11.NOV.2024 02:27:06



BLE\_2M\_Ant15\_2478



BLE\_2M\_Ant7\_2478





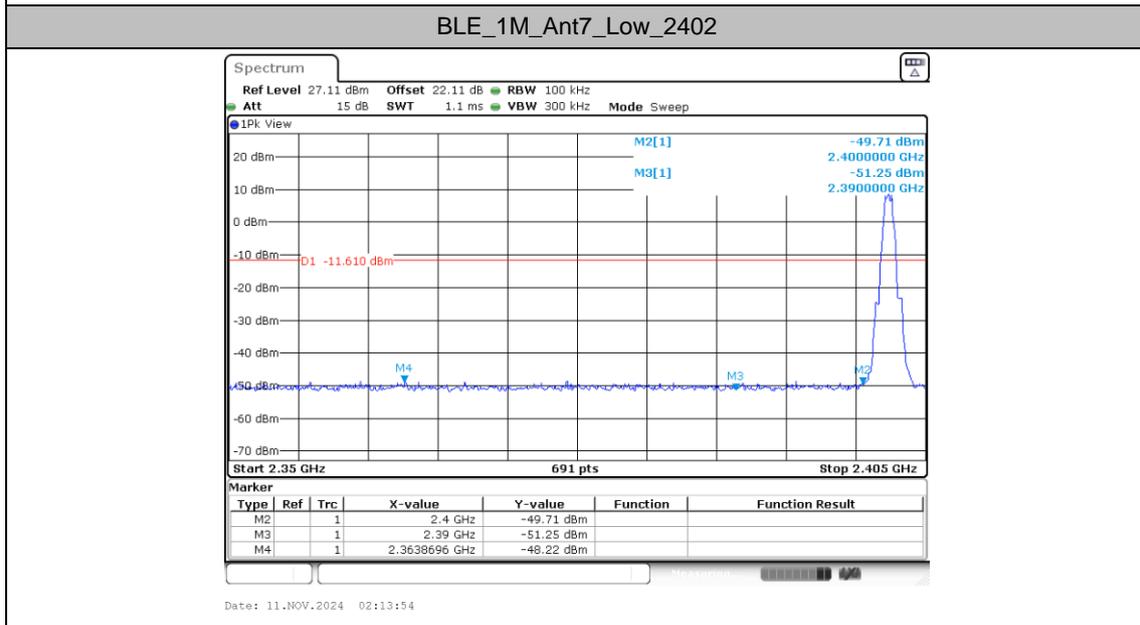
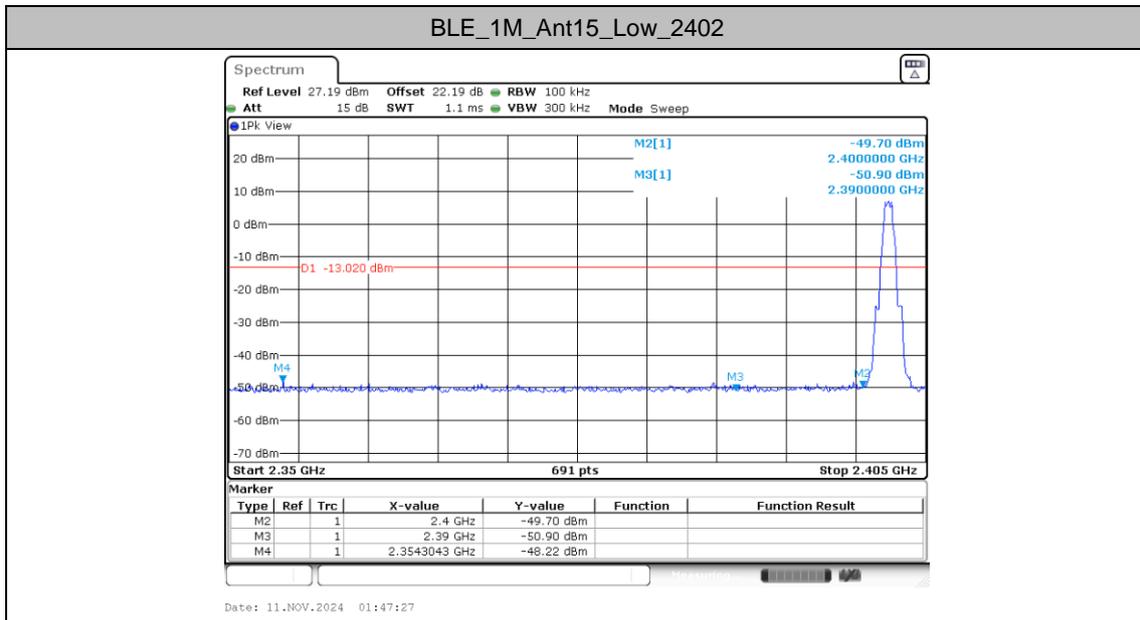
### Band edge measurements

#### Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm /100KHz]	Result[dBm /100KHz]	Limit[dBm /100KHz]	Verdict
BLE_1M	Ant15	Low	2402	6.98	-48.22	≤-13.02	PASS
	Ant7	Low	2402	8.39	-48.22	≤-11.61	PASS
	Ant15	High	2480	6.99	-46.86	≤-13.01	PASS
	Ant7	High	2480	7.12	-47.74	≤-12.88	PASS
BLE_2M	Ant15	Low	2404	6.97	-48	≤-13.03	PASS
	Ant7	Low	2404	8.68	-48.75	≤-11.32	PASS
	Ant15	High	2478	7.02	-47.33	≤-12.98	PASS
	Ant7	High	2478	7.31	-47.87	≤-12.69	PASS

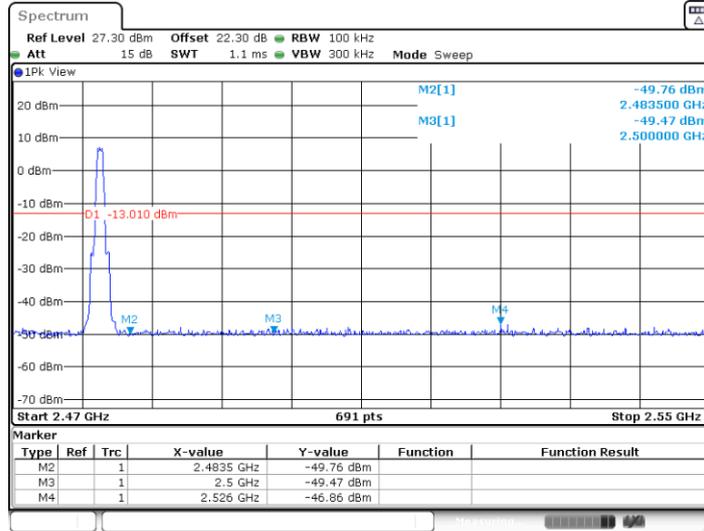


Test Graphs

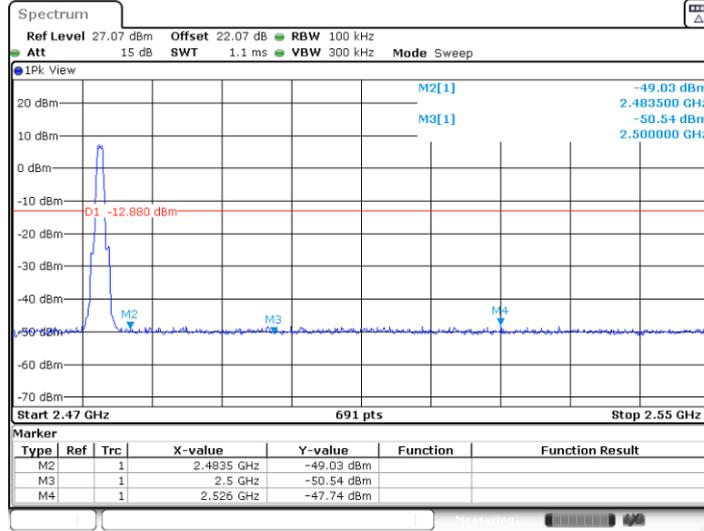




BLE\_1M\_Ant15\_High\_2480

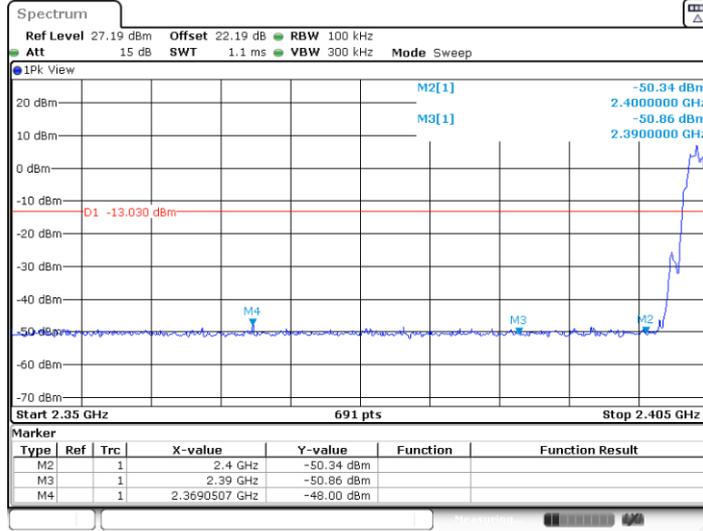


BLE\_1M\_Ant7\_High\_2480

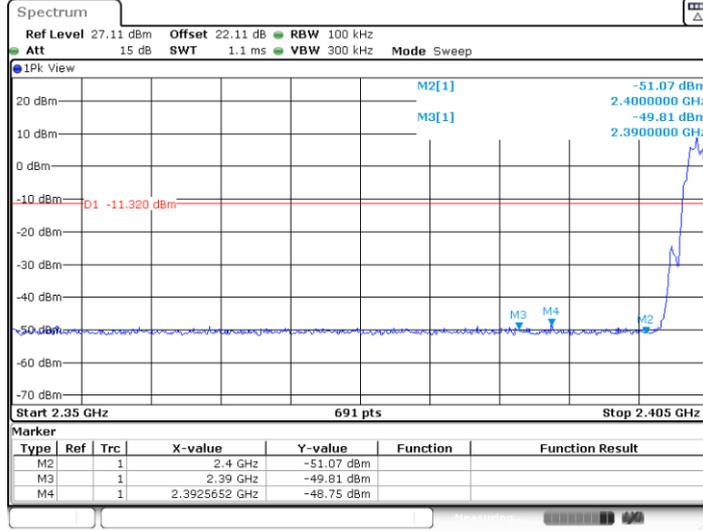




BLE\_2M\_Ant15\_Low\_2404

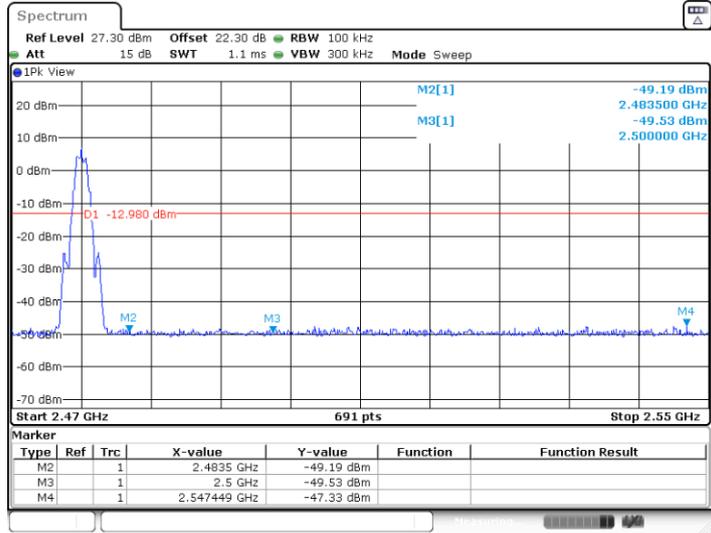


BLE\_2M\_Ant7\_Low\_2404



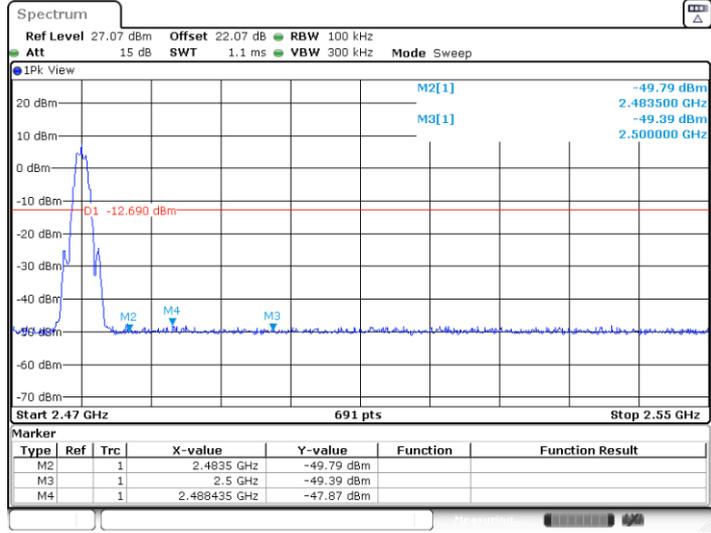


BLE\_2M\_Ant15\_High\_2478



Date: 11.NOV.2024 02:08:58

BLE\_2M\_Ant7\_High\_2478



Date: 11.NOV.2024 02:29:09



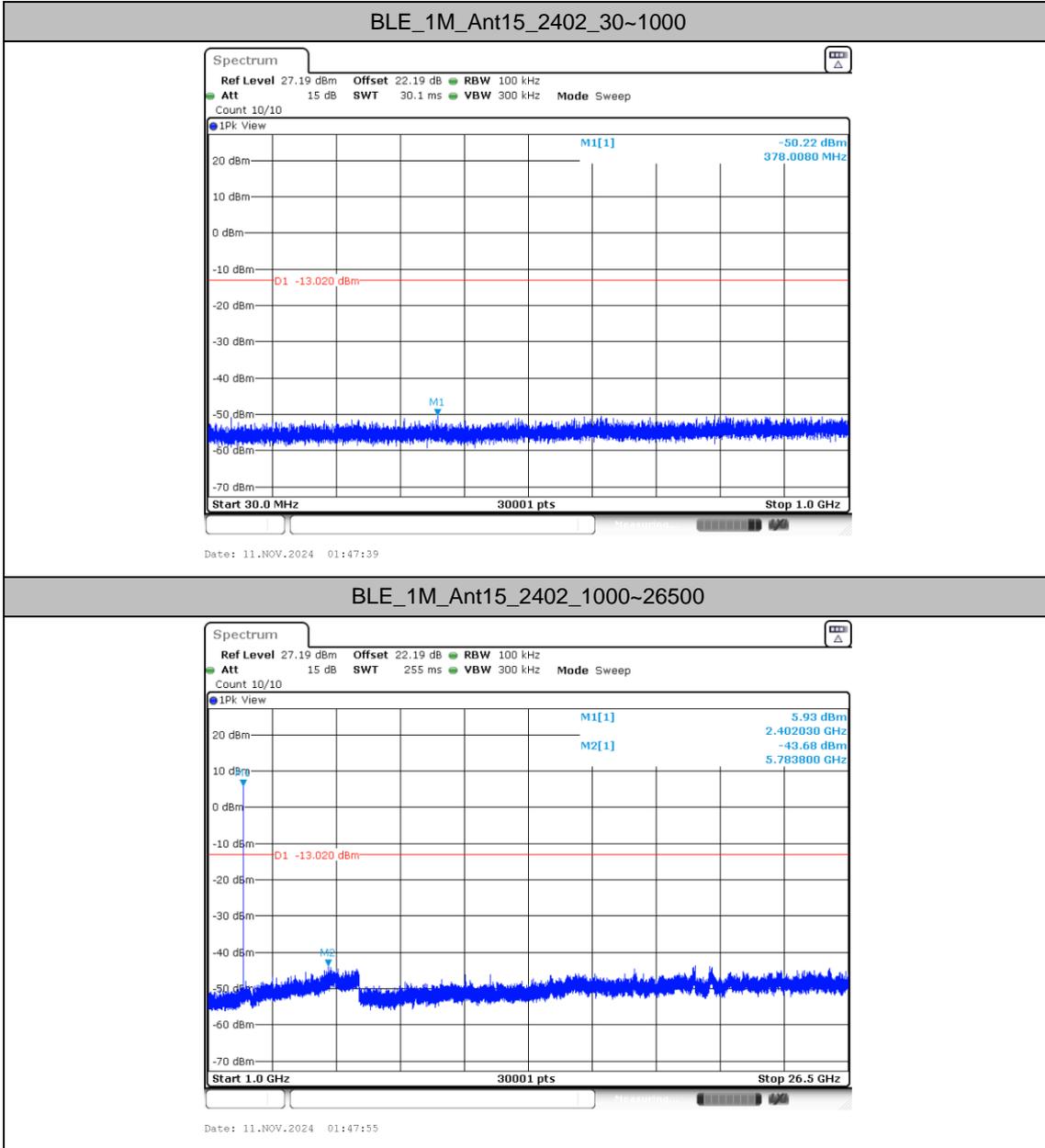
### Conducted Spurious Emission

#### Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm/100KHz]	Result [dBm/100KHz]	Limit [dBm/100KHz]	Verdict
BLE_1M	Ant15	2402	30~1000	6.98	-50.22	≤-13.02	PASS
			1000~26500	6.98	-43.68	≤-13.02	PASS
	Ant7	2402	30~1000	8.39	-49.4	≤-11.61	PASS
			1000~26500	8.39	-43.72	≤-11.61	PASS
	Ant15	2440	30~1000	7.14	-49.92	≤-12.86	PASS
			1000~26500	7.14	-43.74	≤-12.86	PASS
	Ant7	2440	30~1000	7.24	-49.52	≤-12.76	PASS
			1000~26500	7.24	-43.54	≤-12.76	PASS
	Ant15	2480	30~1000	6.99	-49.62	≤-13.01	PASS
			1000~26500	6.99	-43.83	≤-13.01	PASS
	Ant7	2480	30~1000	7.12	-50.08	≤-12.88	PASS
			1000~26500	7.12	-43.42	≤-12.88	PASS
BLE_2M	Ant15	2404	30~1000	6.97	-50.25	≤-13.03	PASS
			1000~26500	6.97	-43.76	≤-13.03	PASS
	Ant7	2404	30~1000	8.68	-49.89	≤-11.32	PASS
			1000~26500	8.68	-43.68	≤-11.32	PASS
	Ant15	2440	30~1000	7.25	-49.81	≤-12.75	PASS
			1000~26500	7.25	-44.06	≤-12.75	PASS
	Ant7	2440	30~1000	7.31	-49.22	≤-12.69	PASS
			1000~26500	7.31	-43.84	≤-12.69	PASS
	Ant15	2478	30~1000	7.02	-49.56	≤-12.98	PASS
			1000~26500	7.02	-43.01	≤-12.98	PASS
	Ant7	2478	30~1000	7.31	-50.15	≤-12.69	PASS
			1000~26500	7.31	-43.69	≤-12.69	PASS

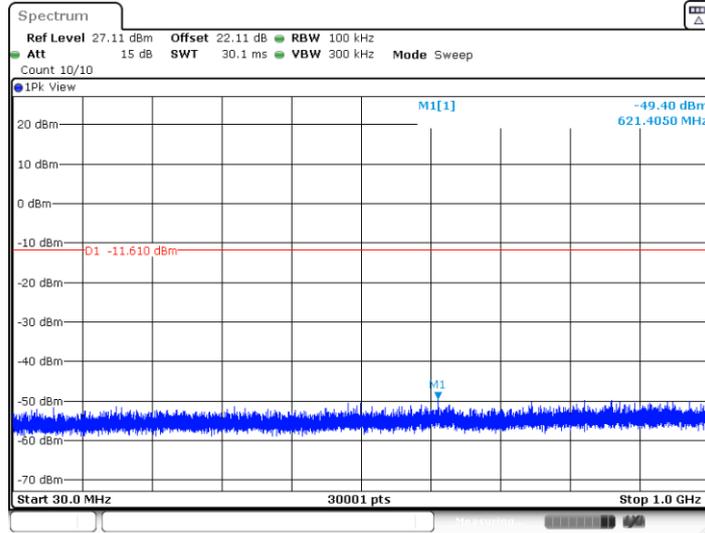


Test Graphs



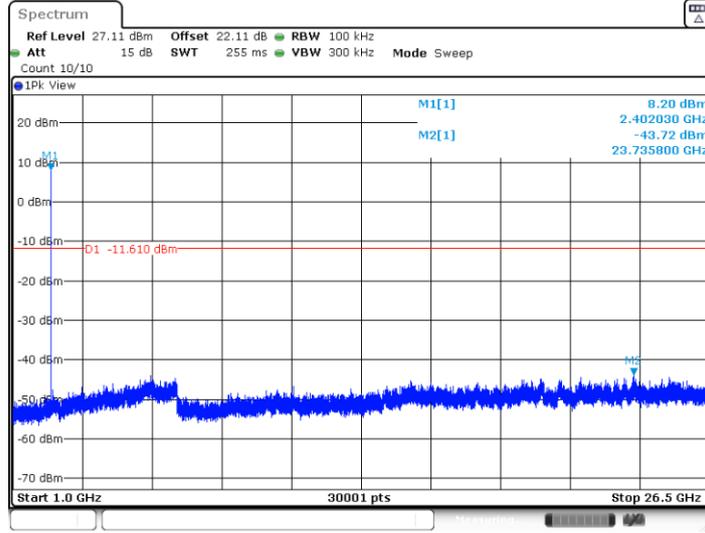


BLE\_1M\_Ant7\_2402\_30~1000



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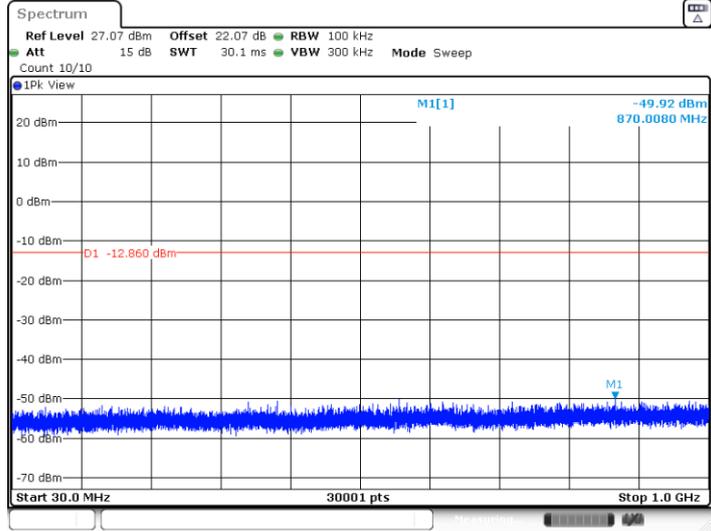
BLE\_1M\_Ant7\_2402\_1000~26500



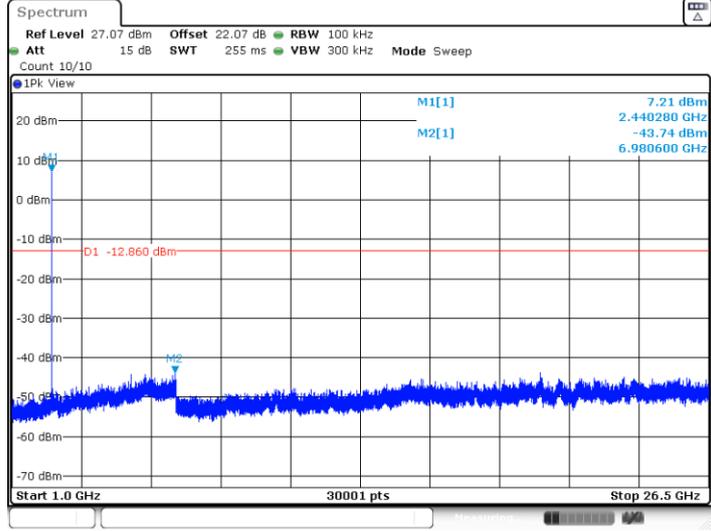
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BLE\_1M\_Ant15\_2440\_30~1000

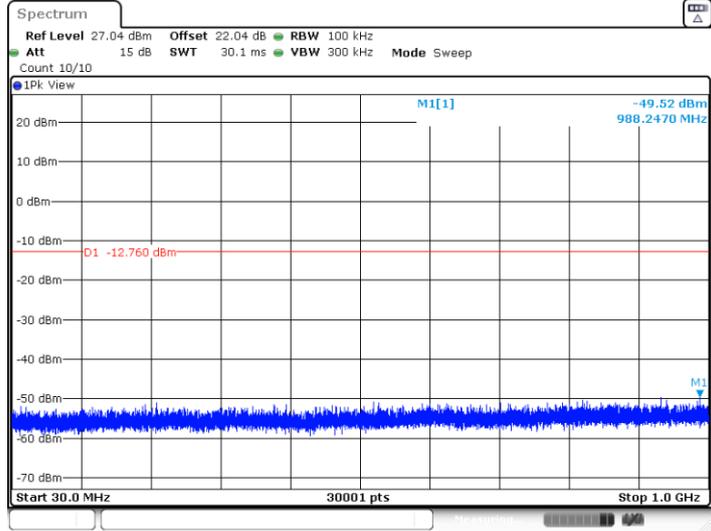


BLE\_1M\_Ant15\_2440\_1000~26500



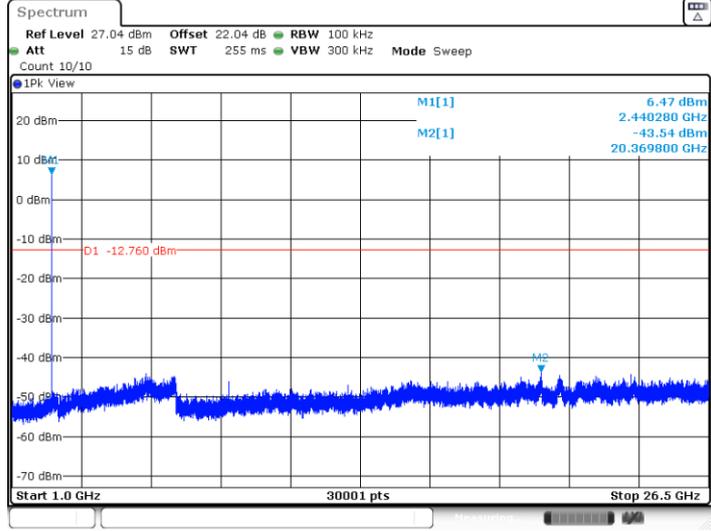


BLE\_1M\_Ant7\_2440\_30~1000



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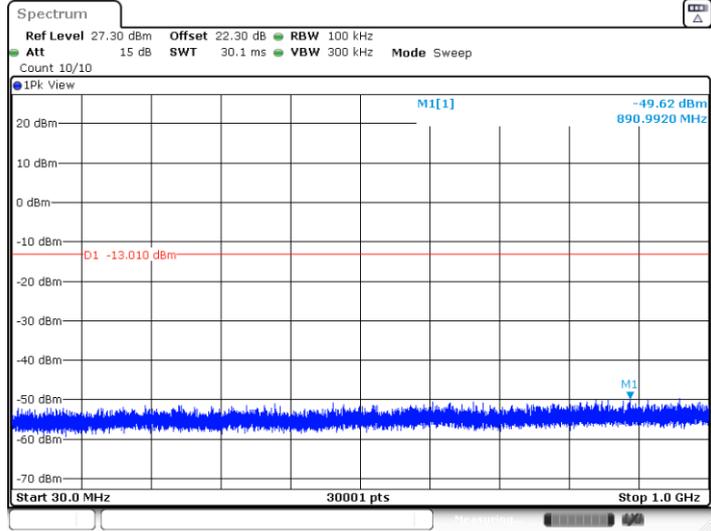
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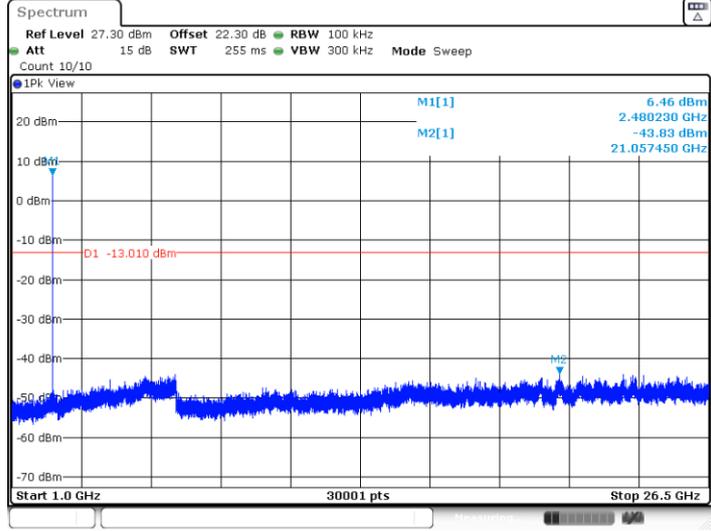


BLE\_1M\_Ant15\_2480\_30~1000



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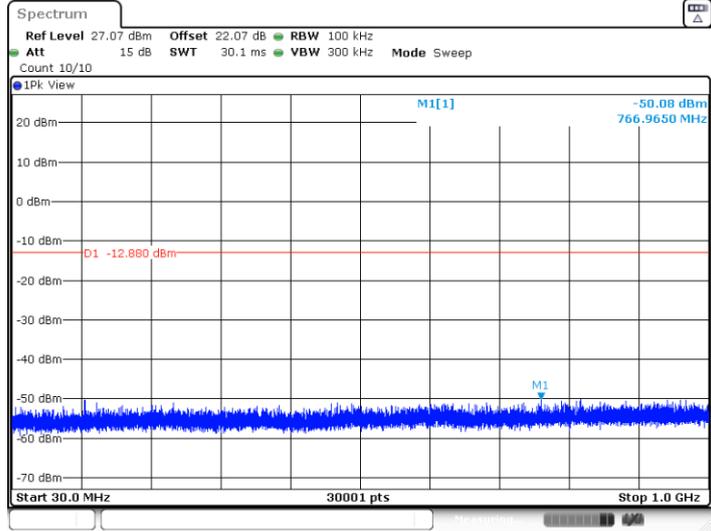
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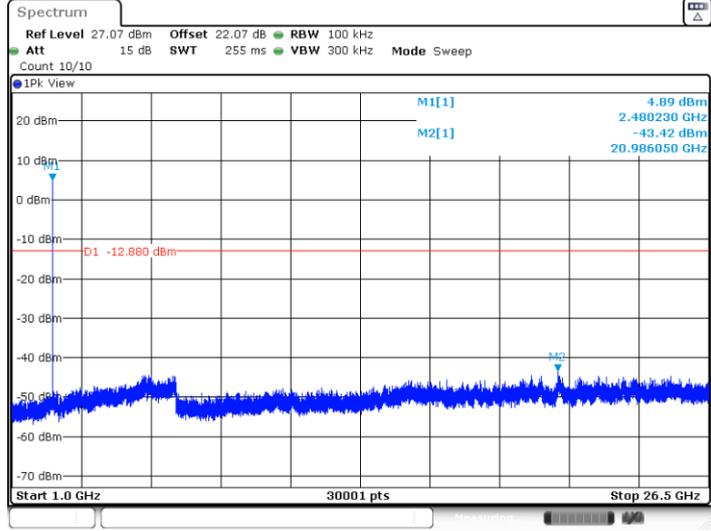
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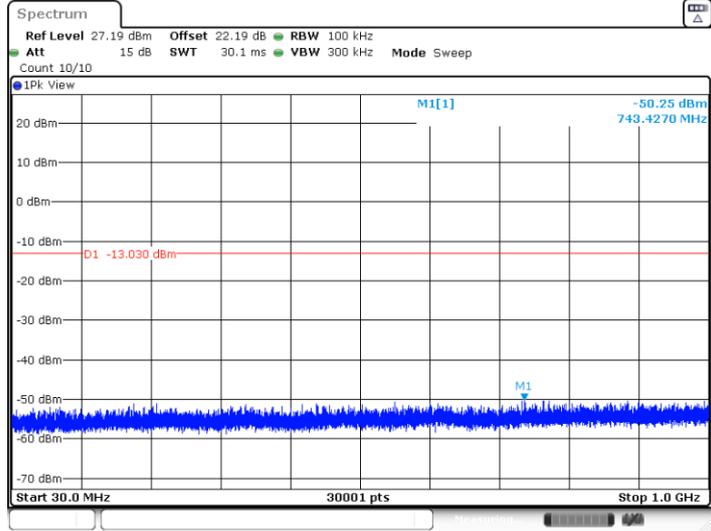


BLE\_1M\_Ant7\_2480\_1000~26500



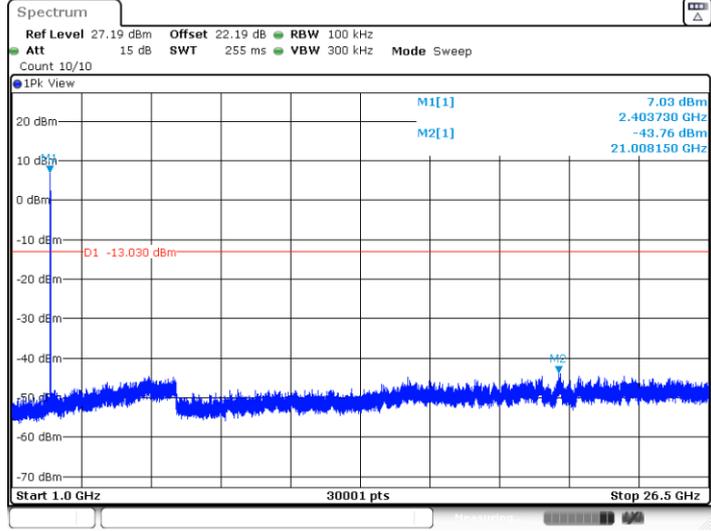


BLE\_2M\_Ant15\_2404\_30~1000



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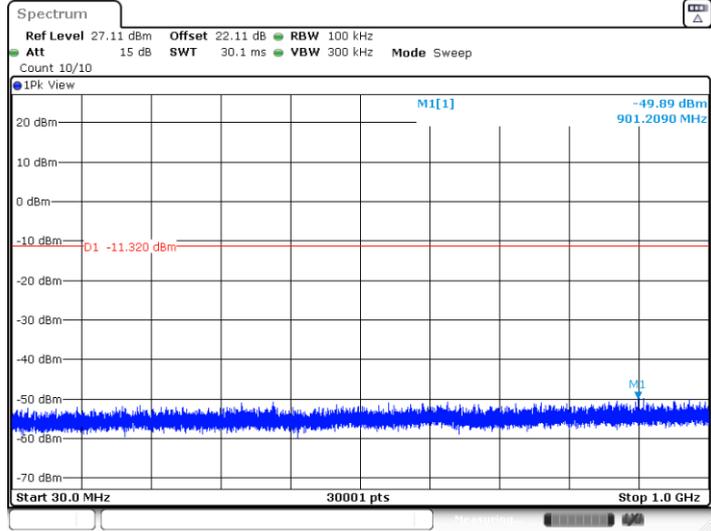
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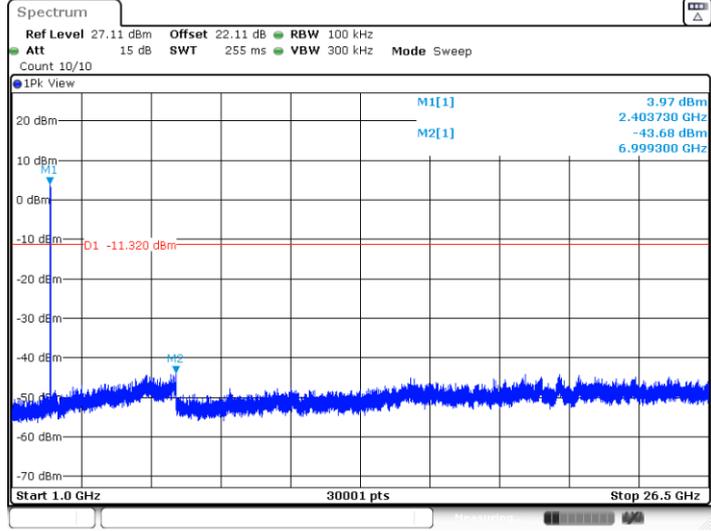
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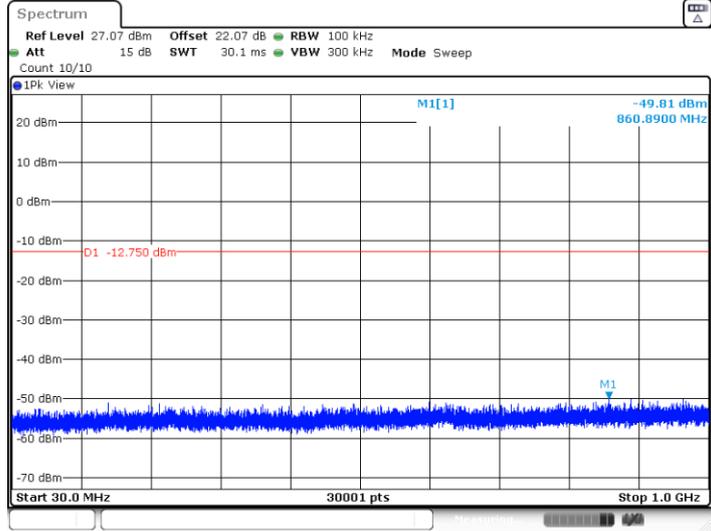


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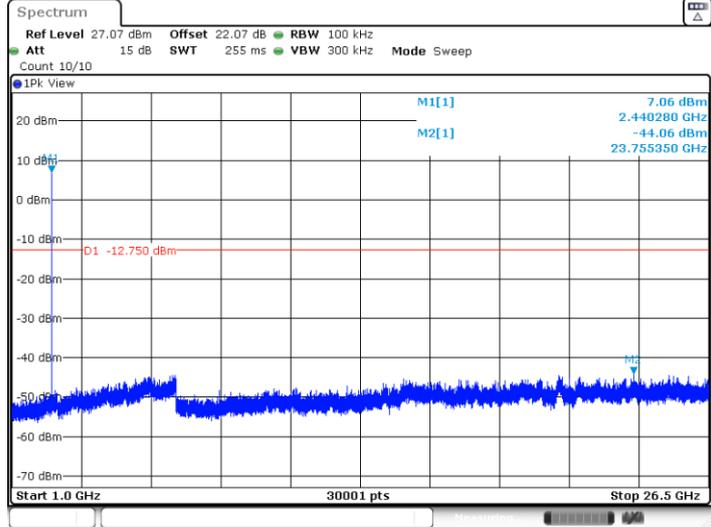


BLE\_2M\_Ant15\_2440\_30~1000



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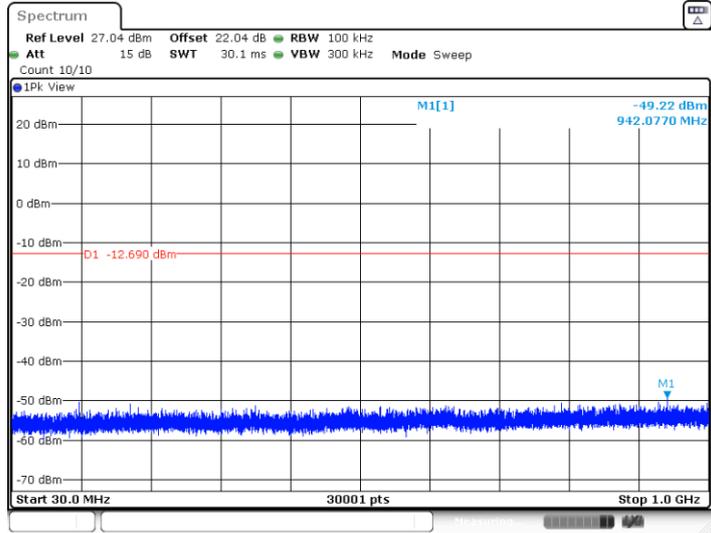
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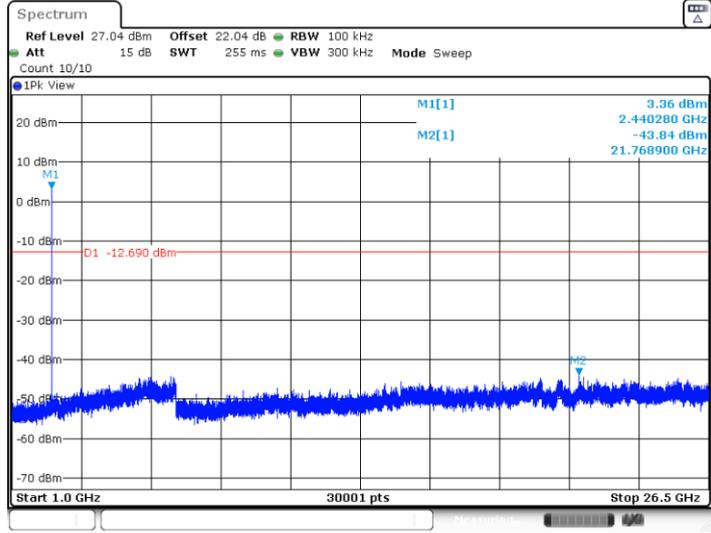


BLE\_2M\_Ant7\_2440\_30~1000



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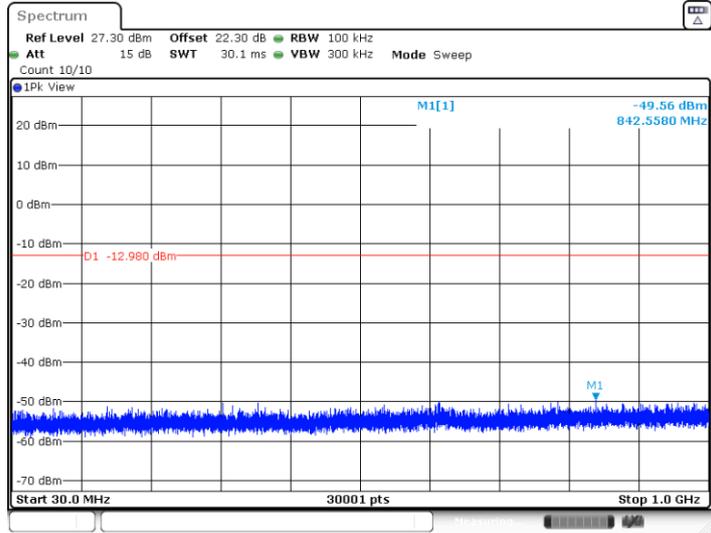
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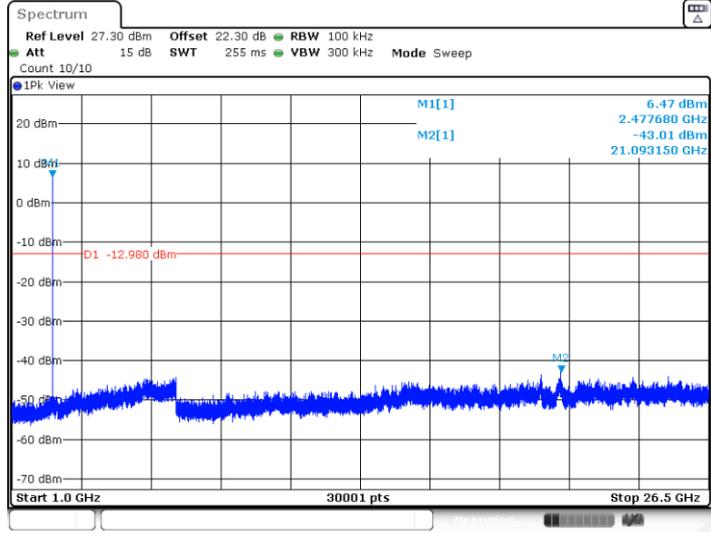


BLE\_2M\_Ant15\_2478\_30~1000



Date: 11.NOV.2024 02:09:10

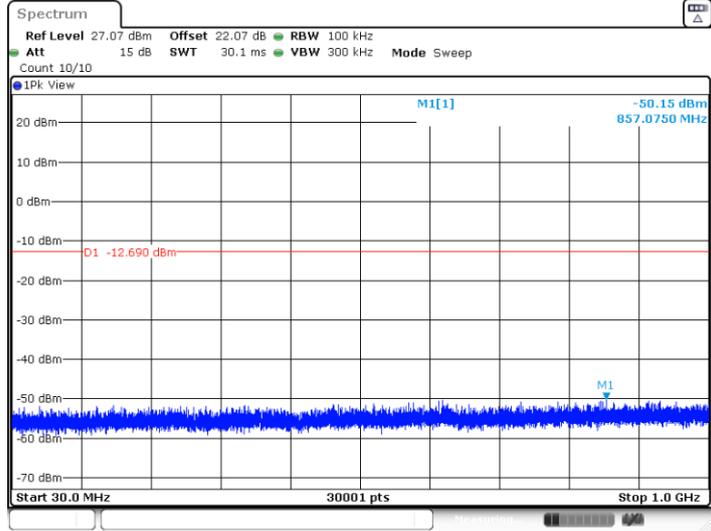
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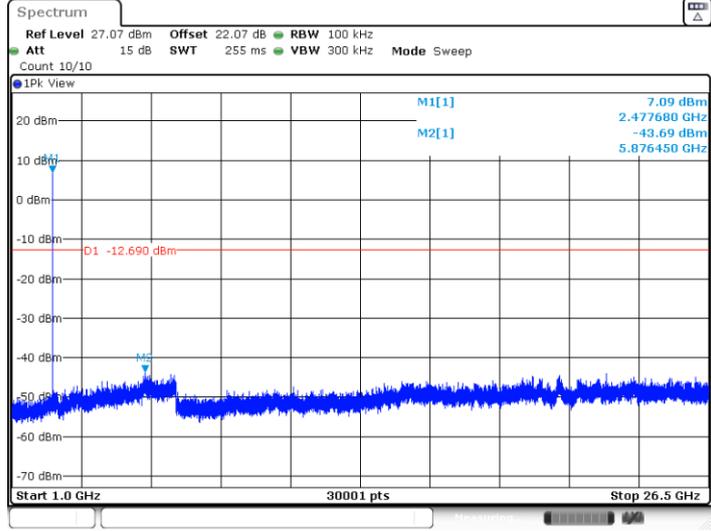
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BLE\_2M\_Ant7\_2478\_30~1000



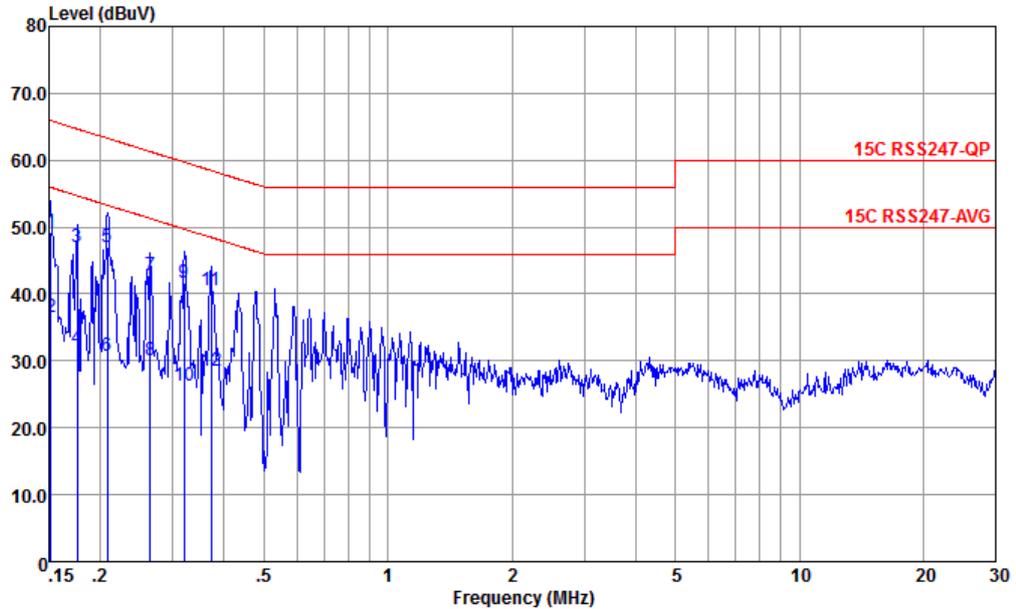
BLE\_2M\_Ant7\_2478\_1000~26500





## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

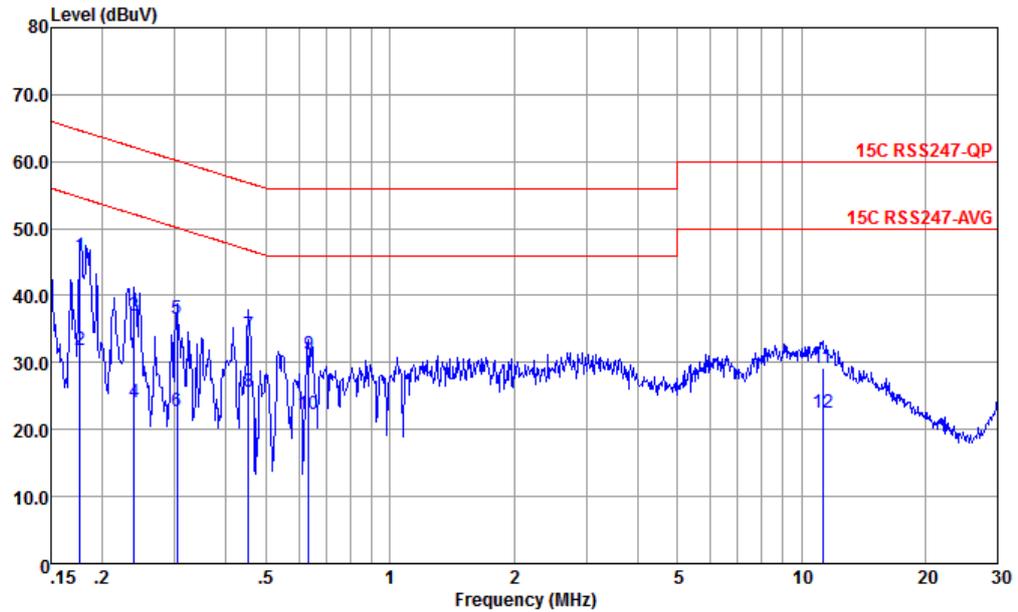


Site : CO01-KS  
 Condition : 15C RSS247-QP LISN-060105-L 2024 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.152	49.14	-16.77	65.91	38.60	0.12	10.42	QP
2	0.152	36.44	-19.47	55.91	25.90	0.12	10.42	Average
3	0.176	47.11	-17.57	64.68	36.60	0.10	10.41	QP
4	0.176	31.81	-22.87	54.68	21.30	0.10	10.41	Average
5 *	0.208	47.08	-16.19	63.27	36.60	0.08	10.40	QP
6	0.208	30.78	-22.49	53.27	20.30	0.08	10.40	Average
7	0.264	42.74	-18.55	61.29	32.29	0.09	10.36	QP
8	0.264	30.04	-21.25	51.29	19.59	0.09	10.36	Average
9	0.320	41.59	-18.12	59.71	31.21	0.06	10.32	QP
10	0.320	26.29	-23.42	49.71	15.91	0.06	10.32	Average
11	0.371	40.60	-17.87	58.47	30.31	0.00	10.29	QP
12	0.371	28.60	-19.87	48.47	18.31	0.00	10.29	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS  
 Condition : 15C RSS247-QP LISN-060105-N 2024 NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.177	45.84	-18.80	64.64	35.30	0.13	10.41	QP
2	0.177	31.84	-22.80	54.64	21.30	0.13	10.41	Average
3	0.239	37.00	-25.13	62.13	26.60	0.02	10.38	QP
4	0.239	24.03	-28.10	52.13	13.63	0.02	10.38	Average
5	0.303	36.61	-23.54	60.15	26.40	-0.12	10.33	QP
6	0.303	22.71	-27.44	50.15	12.50	-0.12	10.33	Average
7	0.454	34.00	-22.80	56.80	23.89	-0.14	10.25	QP
8	0.454	25.70	-21.10	46.80	15.59	-0.14	10.25	Average
9	0.634	31.30	-24.70	56.00	21.30	-0.16	10.16	QP
10	0.634	22.30	-23.70	46.00	12.30	-0.16	10.16	Average
11	11.257	29.22	-30.78	60.00	18.60	-0.25	10.87	QP
12	11.257	22.62	-27.38	50.00	12.00	-0.25	10.87	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



### Appendix C. Radiated Spurious Emission

Test Engineer :	Koi Ji	Relative Humidity :	41 ~ 42%
		Temperature :	22 ~ 23°C

### Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 4	2400-2483.5	7	Bluetooth-LE_GSKF	0	2402	1Mbps	-	-
Mode 5	2400-2483.5	7	Bluetooth-LE_GSKF	19	2440	1Mbps	-	-
Mode 6	2400-2483.5	7	Bluetooth-LE_GSKF	39	2480	1Mbps	-	-
Mode 7	2400-2483.5	7	Bluetooth-LE_GSKF	1	2404	2Mbps	-	-
Mode 8	2400-2483.5	7	Bluetooth-LE_GSKF	19	2440	2Mbps	-	-
Mode 9	2400-2483.5	7	Bluetooth-LE_GSKF	38	2478	2Mbps	-	-
Mode 13	2400-2483.5	15	Bluetooth-LE_GSKF	0	2402	1Mbps	-	-
Mode 14	2400-2483.5	15	Bluetooth-LE_GSKF	19	2440	1Mbps	-	-
Mode 15	2400-2483.5	15	Bluetooth-LE_GSKF	39	2480	1Mbps	-	-
Mode 16	2400-2483.5	15	Bluetooth-LE_GSKF	1	2404	2Mbps	-	-
Mode 17	2400-2483.5	15	Bluetooth-LE_GSKF	19	2440	2Mbps	-	-
Mode 18	2400-2483.5	15	Bluetooth-LE_GSKF	38	2478	2Mbps	-	-



### Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
4	Bluetooth-LE_GSKF	0	2372.92	44.07	54.00	-9.93	V	AVERAGE	Pass	Band Edge
	Bluetooth-LE_GSKF	0	4804.00	40.91	74.00	-33.09	H	PEAK	Pass	Harmonic
5	Bluetooth-LE_GSKF	19	-	-	-	-	-	-	-	Band Edge
	Bluetooth-LE_GSKF	19	7320.00	43.42	74.00	-30.58	H	PEAK	Pass	Harmonic
6	Bluetooth-LE_GSKF	39	2498.50	44.56	54.00	-9.44	H	AVERAGE	Pass	Band Edge
	Bluetooth-LE_GSKF	39	7440.00	42.65	74.00	-31.35	H	PEAK	Pass	Harmonic
7	Bluetooth-LE_GSKF	1	2372.66	44.25	54.00	-9.75	H	AVERAGE	Pass	Band Edge
	Bluetooth-LE_GSKF	1	4808.00	40.72	74.00	-33.28	H	PEAK	Pass	Harmonic
8	Bluetooth-LE_GSKF	19	-	-	-	-	-	-	-	Band Edge
	Bluetooth-LE_GSKF	19	7320.00	43.46	74.00	-30.54	V	PEAK	Pass	Harmonic
9	Bluetooth-LE_GSKF	38	2488.84	44.95	54.00	-9.05	H	AVERAGE	Pass	Band Edge
9	Bluetooth-LE_GSKF	38	7434.00	43.30	74.00	-30.70	H	PEAK	Pass	Harmonic
13	Bluetooth-LE_GSKF	0	2383.71	44.21	54.00	-9.79	H	AVERAGE	Pass	Band Edge
13	Bluetooth-LE_GSKF	0	4804.00	40.58	74.00	-33.42	H	PEAK	Pass	Harmonic
14	Bluetooth-LE_GSKF	19	-	-	-	-	-	-	-	Band Edge
14	Bluetooth-LE_GSKF	19	7320.00	43.82	74.00	-30.18	H	PEAK	Pass	Harmonic
15	Bluetooth-LE_GSKF	39	2487.40	45.41	54.00	-8.59	H	AVERAGE	Pass	Band Edge
15	Bluetooth-LE_GSKF	39	7440.00	42.88	74.00	-31.12	V	PEAK	Pass	Harmonic
16	Bluetooth-LE_GSKF	1	2380.72	44.55	54.00	-9.45	V	AVERAGE	Pass	Band Edge
16	Bluetooth-LE_GSKF	1	4808.00	40.21	74.00	-33.79	H	PEAK	Pass	Harmonic
17	Bluetooth-LE_GSKF	19	-	-	-	-	-	-	-	Band Edge
17	Bluetooth-LE_GSKF	19	7320.00	43.47	74.00	-30.53	H	PEAK	Pass	Harmonic
18	Bluetooth-LE_GSKF	38	2486.44	45.21	54.00	-8.79	V	AVERAGE	Pass	Band Edge
18	Bluetooth-LE_GSKF	38	7434.00	42.42	74.00	-31.58	H	PEAK	Pass	Harmonic



Mode	4																																																																																																	
	Band Edge																																																																																																	
	2400-2483.5_Bluetooth-LE_GSKF_CH0_2402MHz																																																																																																	
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