



# FCC RF Test Report

**APPLICANT** : Xiaomi Communications Co., Ltd.  
**EQUIPMENT** : Tablet Computer  
**BRAND NAME** : Xiaomi  
**MODEL NAME** : 2410CRP4CG  
**FCC ID** : 2AFZZCRP4CG  
**STANDARD** : FCC Part 15 Subpart C §15.247  
**CLASSIFICATION** : (DTS) Digital Transmission System  
**TEST DATE(S)** : Oct. 11, 2024 ~ Oct. 12, 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
FR480804-02B	Rev. 01	Initial issue of report	Nov. 15, 2024



### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
-	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Not Required	-
-	-	99% Bandwidth	-	Not Required	-
3.1	15.247(b)(3)	Peak Output Power	≤ 30dBm	Pass	-
-	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Not Required	-
3.2	15.247(d)	Conducted Band Edges and Spurious Emission	≤ 20dBc	Pass	-
3.3	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 9.10 dB at 2487.82 MHz
-	15.207	AC Conducted Emission	15.207(a)	Not Required	-
3.4	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

**Remark:**

1. Not required means after assessing, test items are not necessary to carry out.
2. This is a variant report. The purpose is to add a WIFI 2.4 GHz filter, the change note could be referred to the product equality declaration which is exhibit separately. According to the change, only the related test cases from original test report (Sporton Report Number FR480804B) were verified for the differences.

**Conformity Assessment Condition:**

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"

**Disclaimer:**

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	Tablet Computer
Brand Name	Xiaomi
Model Name	2410CRP4CG
FCC ID	2AFZZCRP4CG
SN Code	Conducted: fd22869 Radiation: 9L438K000055
HW Version	135100O82
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	<ANT0> BLE 1Mbps: 5.71 dBm (0.0037 W) BLE 2Mbps: 5.99 dBm (0.0040 W) <ANT2> BLE 1Mbps: 5.31 dBm (0.0034 W) BLE 2Mbps: 5.58 dBm (0.0036 W)
Antenna Type / Gain	<ANT0> : PIFA Antenna type with gain -3.80 dBi <ANT2> : Resonant Cavity Antenna with gain -1.57 dBi
Type of Modulation	Bluetooth LE : GFSK

Note:

1. BLE ANT 0 & ANT 2 can't transmit simultaneously.
2. BLE 2Mbps does not support the three primary advertising channels (CH00/12/39).



### 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	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

### 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

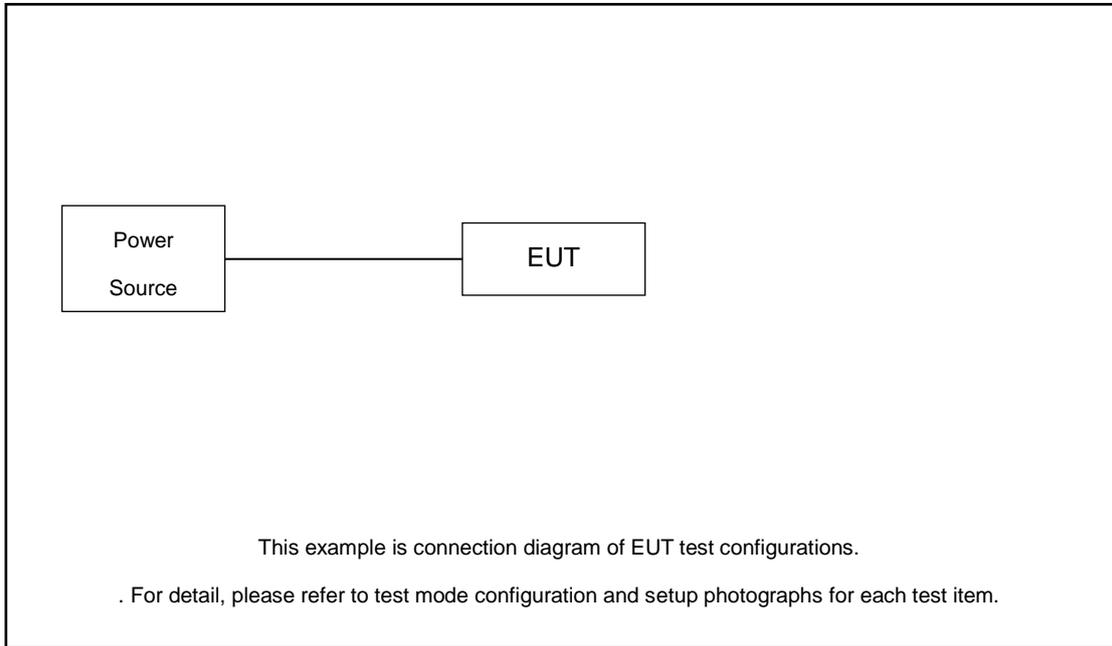
- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated:, radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X 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
Conducted TCs	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 CH00_2402 MHz _BLE 2Mbps
	Mode 5: Bluetooth Tx CH19_2440 MHz _BLE 2Mbps
	Mode 6: Bluetooth Tx CH39_2480 MHz _BLE 2Mbps
Radiated TCs	Mode 1 Bluetooth Tx CH38_2478 MHz _BLE 2Mbps
<b>Remark:</b> For Radiated Test Cases, The tests were performance with Adapter1 and USB Cable1	

## 2.3 Connection Diagram of Test System

Radiated Emission:



## 2.4 Support Unit used in test configuration and system

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

## 2.5 EUT Operation Test Setup

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



## 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 12.19 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 12.19 + 10 = 22.19 \text{ (dB)} \end{aligned}$$

### 3 Test Result

#### 3.1 Output Power Measurement

##### 3.1.1 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.

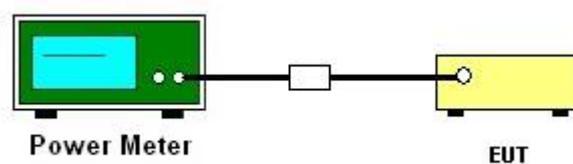
##### 3.1.2 Measuring Instruments

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 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.

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of Peak Output Power

Please refer to Appendix A.

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

Please refer to Appendix A.

## 3.2 Conducted Band Edges and Spurious Emission Measurement

### 3.2.1 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.

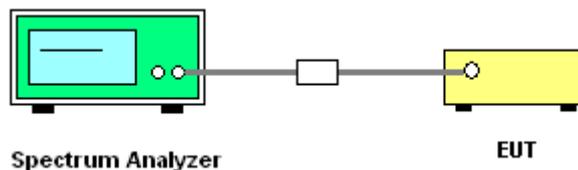
### 3.2.2 Measuring Instruments

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

### 3.2.3 Test 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.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Conducted Band Edges Plots

Please refer to Appendix A.

### 3.2.6 Test Result of Conducted Spurious Emission Plots

Please refer to Appendix A.



### 3.3 Radiated Band Edges and Spurious Emission Measurement

#### 3.3.1 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

#### 3.3.2 Measuring Instruments

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

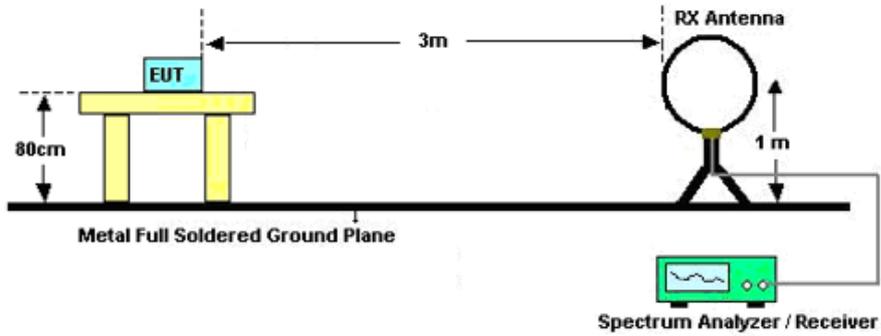


### 3.3.3 Test Procedures

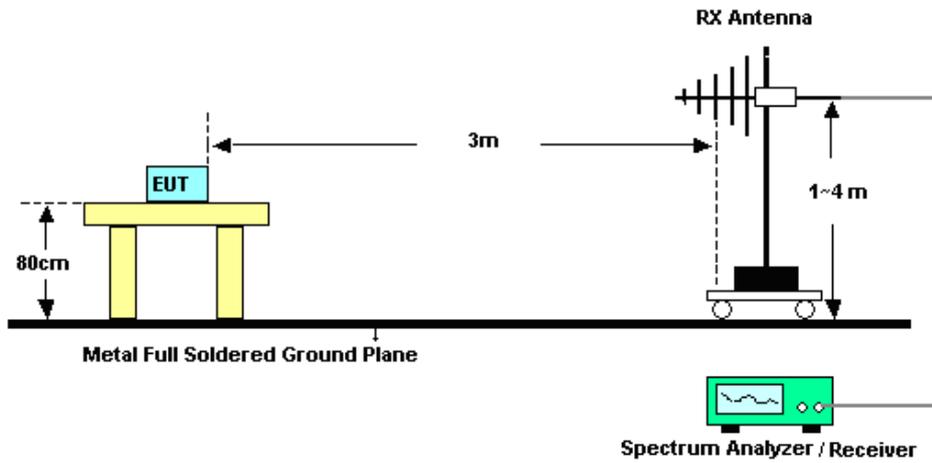
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better 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.

### 3.3.4 Test Setup

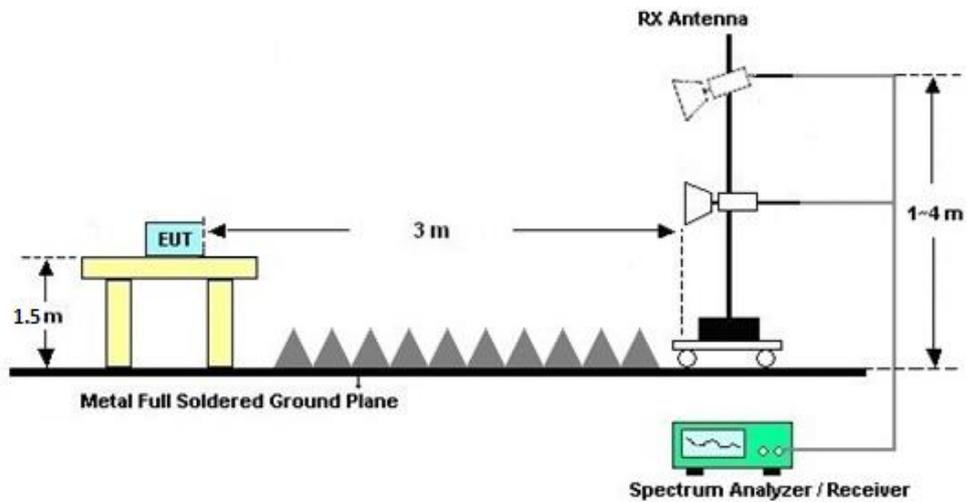
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





### **3.3.5 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.

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

Please refer to Appendix B.

### **3.3.7 Duty Cycle**

Please refer to Appendix C.

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

Please refer to Appendix B.



## **3.4 Antenna Requirements**

### **3.4.1 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.

### **3.4.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.4.3 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	FSV40	101040	10Hz~40GHz	Oct. 11, 2024	Oct. 11, 2024	Oct. 10, 2025	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Oct. 11, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Oct. 11, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz;Max 30dBm	Jan. 02, 2024	Oct. 12, 2024	Jan. 01, 2025	Radiation (03CH08-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57441079	10Hz~44GHz	Oct. 09, 2024	Oct. 12, 2024	Oct. 08, 2025	Radiation (03CH08-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Oct. 12, 2024	Sep. 07, 2025	Radiation (03CH08-KS)
Bilog Antenna	TESEQ	CBL 6111D	44483	30MHz~1GHz	Dec. 06, 2023	Oct. 12, 2024	Dec. 05, 2024	Radiation (03CH08-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240138	1GHz~18GHz	Jul. 06, 2024	Oct. 12, 2024	Jul. 05, 2025	Radiation (03CH08-KS)
high gain Amplifier	EM	EM01G18GA	060845	1Ghz~18Ghz	Jan. 03, 2024	Oct. 12, 2024	Jan. 02, 2025	Radiation (03CH08-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Oct. 12, 2024	Jan. 26, 2025	Radiation (03CH08-KS)
Amplifier	SONOMA	310N	413741	9KHz~1GHz	Jan. 02, 2024	Oct. 12, 2024	Jan. 01, 2025	Radiation (03CH08-KS)
Amplifier	Keysight	83017A	MY53270417	500MHz~26.5GHz	Oct. 09, 2024	Oct. 12, 2024	Oct. 08, 2025	Radiation (03CH08-KS)
Amplifier	EM	EM18G40GGA	060728	18~40GHz	Jan. 02, 2024	Oct. 12, 2024	Jan. 01, 2025	Radiation (03CH08-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Oct. 12, 2024	NCR	Radiation (03CH08-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Oct. 12, 2024	NCR	Radiation (03CH08-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Oct. 12, 2024	NCR	Radiation (03CH08-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	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Conducted Power Spectral Density	±0.90 dB
Frequency	±0.04 Hz

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.30 dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.04 dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.26 dB
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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

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



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



Ambient Condition: <u>25</u> °C, <u>45</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2024.10.11</u>	Test Engineer: <u>Jiang Jun</u>

### 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	Ant0	0	5.48	30.00	-3.8	1.68	36.00	Pass
		19	5.53	30.00	-3.8	1.73	36.00	Pass
		39	<b>5.71</b>	30.00	-3.8	<b>1.91</b>	36.00	Pass
BLE2M	Ant0	01	5.76	30.00	-3.8	1.96	36.00	Pass
		19	5.85	30.00	-3.8	2.05	36.00	Pass
		38	<b>5.99</b>	30.00	-3.8	<b>2.19</b>	36.00	Pass
BLE1M	Ant2	0	4.75	30.00	-1.57	3.18	36.00	Pass
		19	4.78	30.00	-1.57	3.21	36.00	Pass
		39	<b>5.31</b>	30.00	-1.57	<b>3.74</b>	36.00	Pass
BLE2M	Ant2	01	4.95	30.00	-1.57	3.38	36.00	Pass
		19	4.99	30.00	-1.57	3.42	36.00	Pass
		38	<b>5.58</b>	30.00	-1.57	<b>4.01</b>	36.00	Pass



Test Result Average

TestMode	Antenna	CH.	Duty Factor (dB)	Average Conducted Power (dBm)
BLE1M	Ant0	0	2.86	<b>5.41</b>
		19	2.86	5.09
		39	2.86	5.24
BLE2M	Ant0	01	4.10	5.18
		19	4.10	5.26
		38	4.10	<b>5.28</b>
BLE1M	Ant2	0	2.86	4.34
		19	2.86	4.38
		39	2.86	<b>4.75</b>
BLE2M	Ant2	01	4.16	4.50
		19	4.16	4.53
		38	4.16	<b>4.98</b>



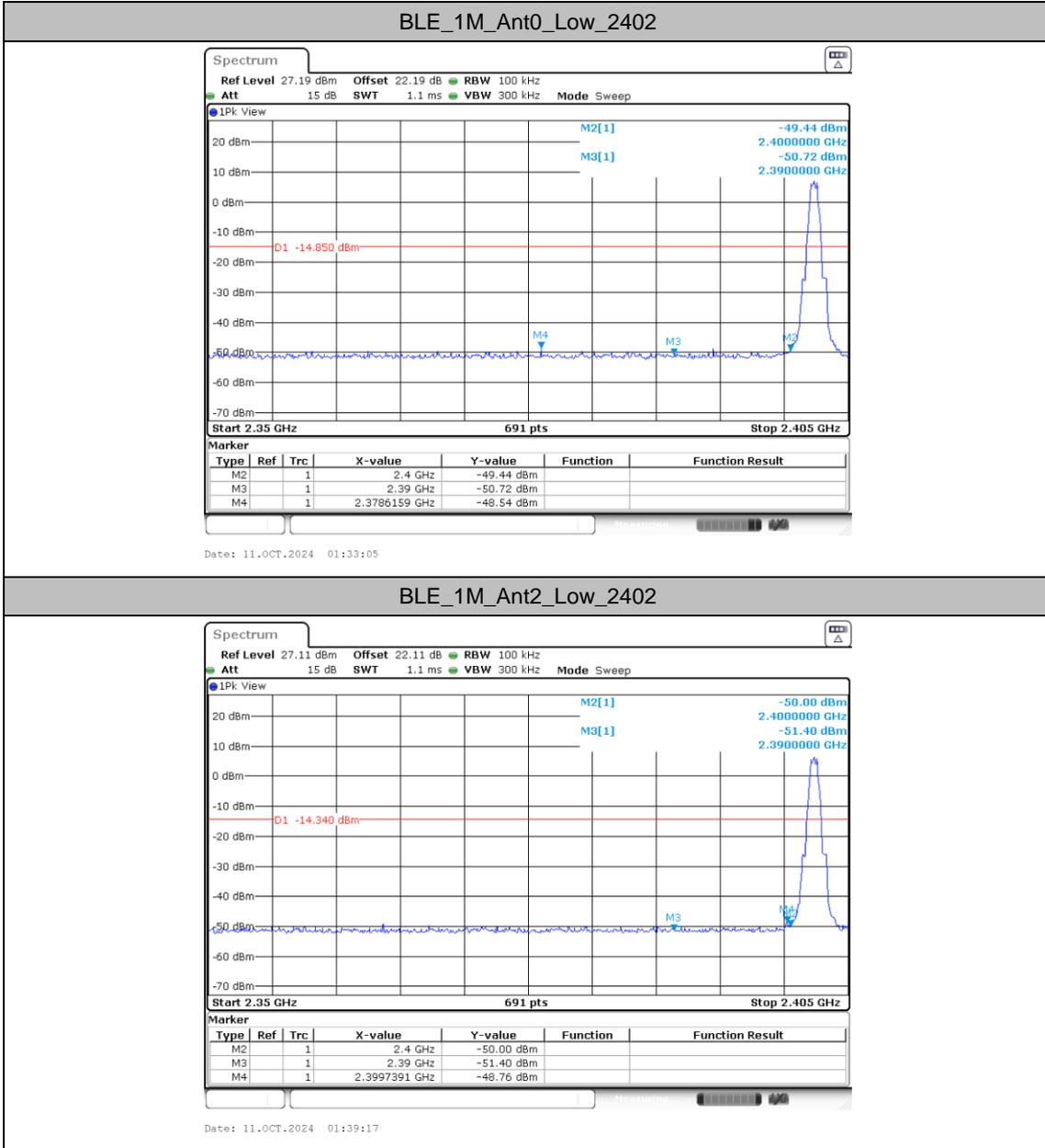
## Band edge measurements

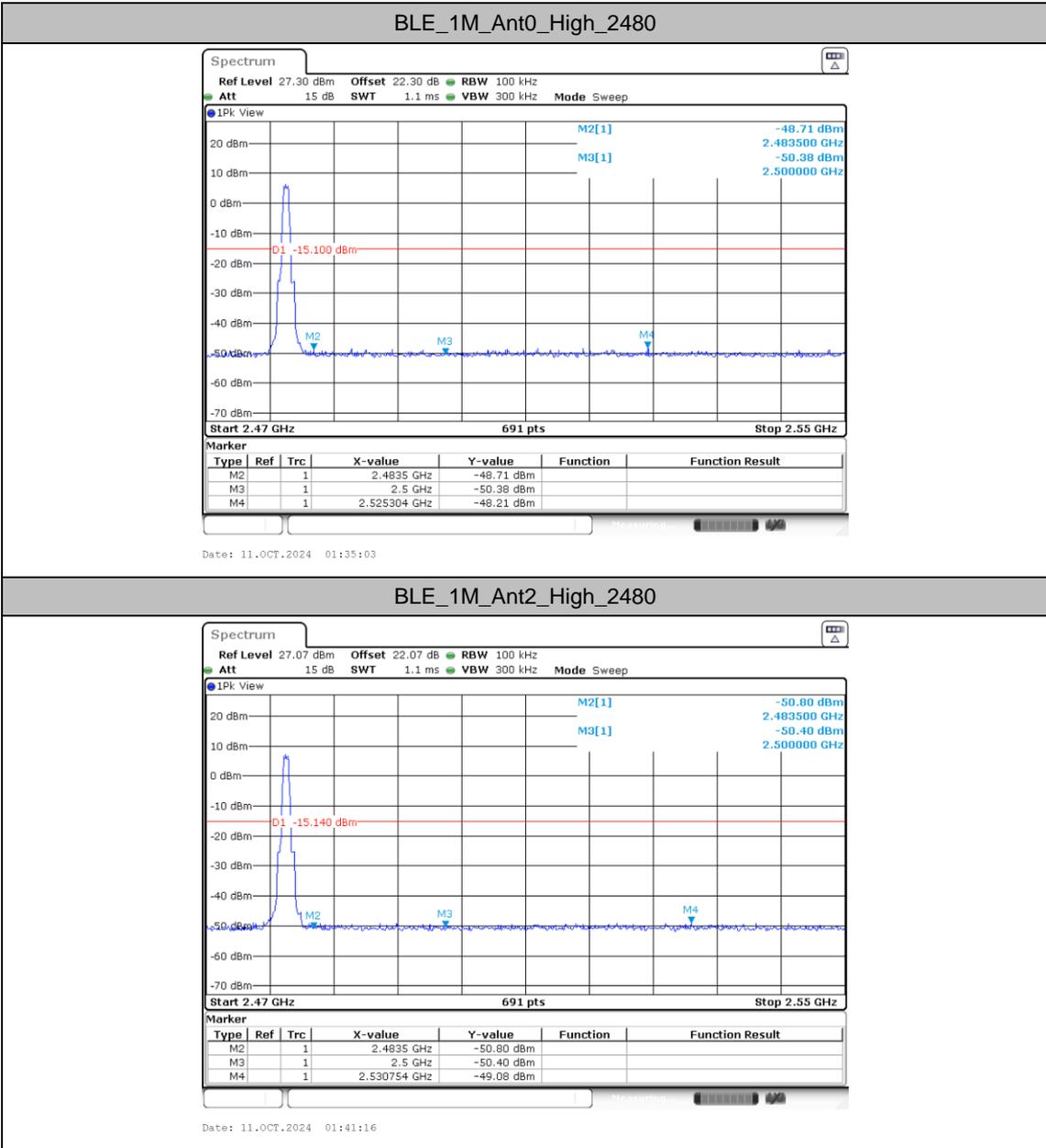
### Test Result

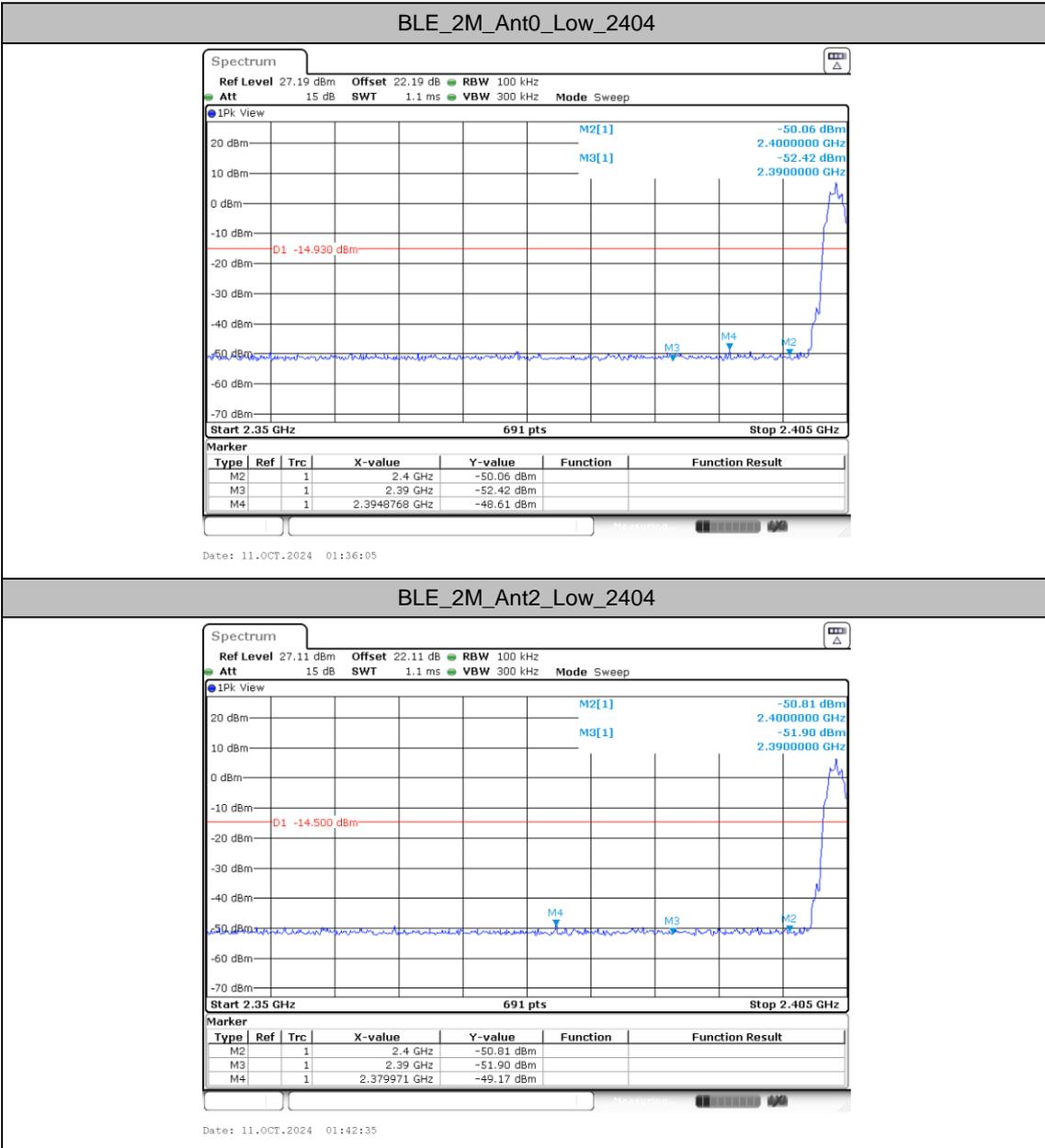
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm /100KHz]	Result[dBm /100KHz]	Limit[dBm /100KHz]	Verdict
BLE_1M	Ant0	Low	2402	5.15	-48.54	≤-14.85	PASS
	Ant2	Low	2402	5.66	-48.76	≤-14.34	PASS
	Ant0	High	2480	4.90	-48.21	≤-15.1	PASS
	Ant2	High	2480	4.86	-49.08	≤-15.14	PASS
BLE_2M	Ant0	Low	2404	5.07	-48.61	≤-14.93	PASS
	Ant2	Low	2404	5.50	-49.17	≤-14.5	PASS
	Ant0	High	2478	4.85	-48.57	≤-15.15	PASS
	Ant2	High	2478	4.82	-48.65	≤-15.18	PASS

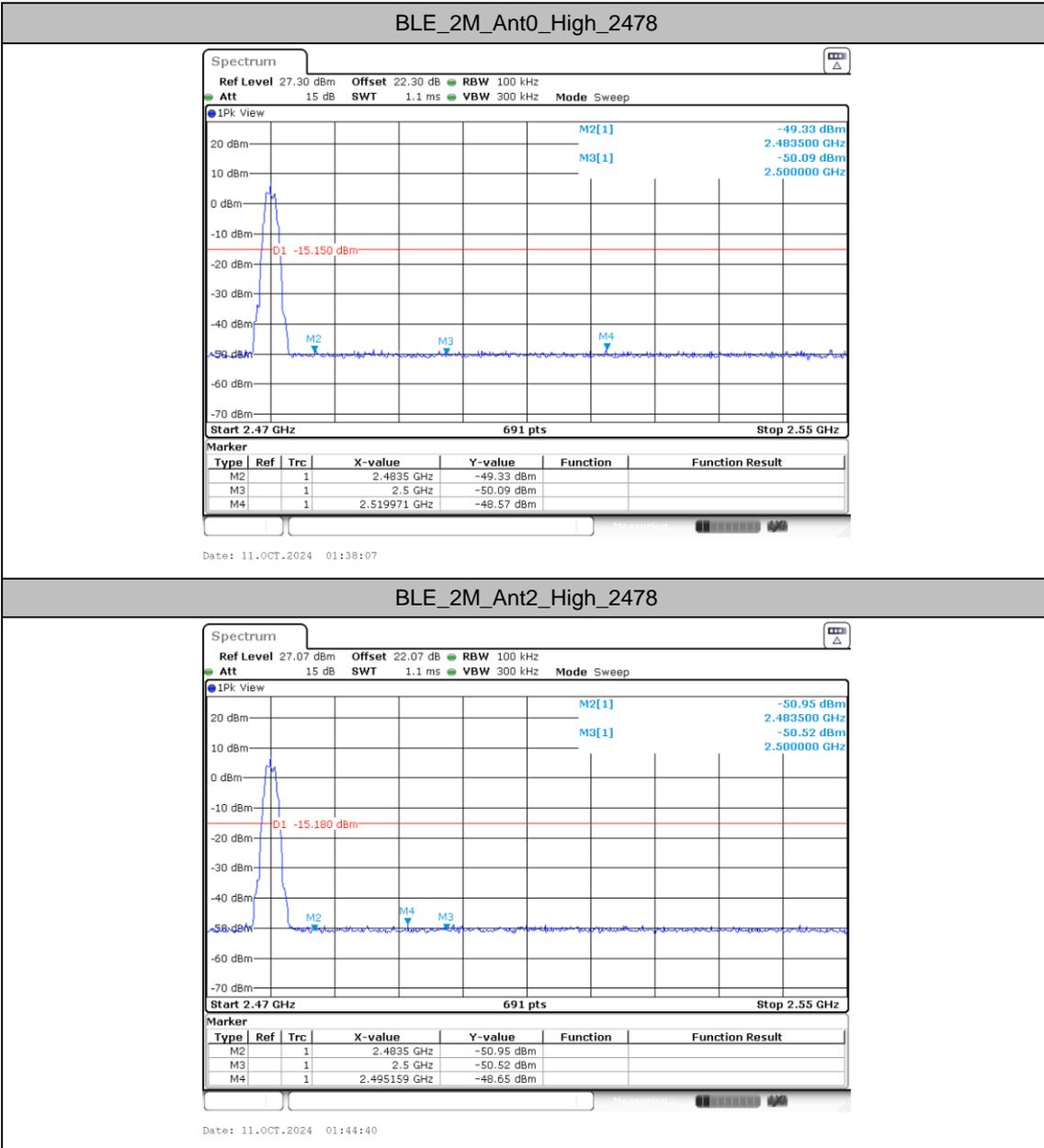


### Test Graphs











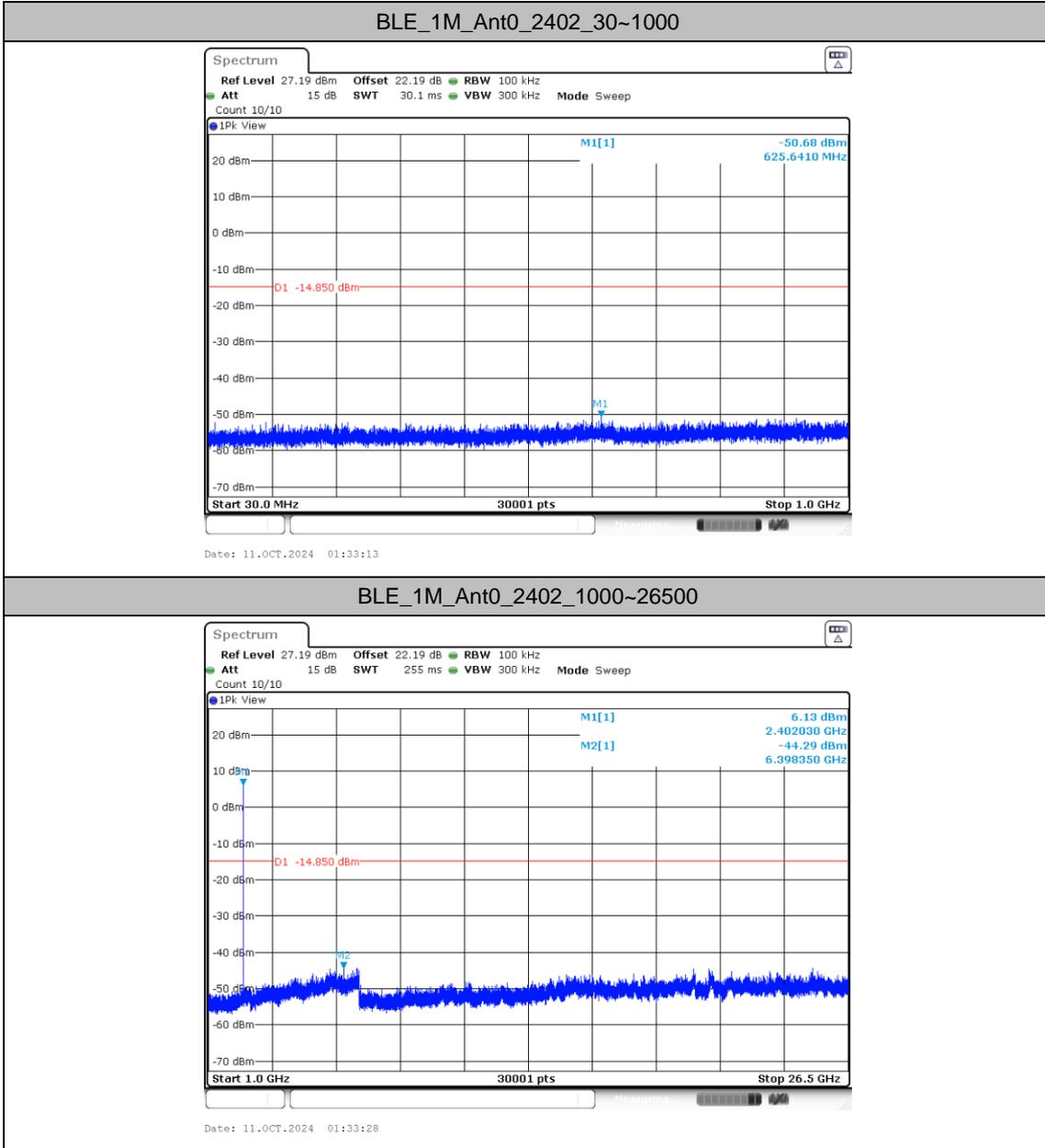
## Conducted Spurious Emission

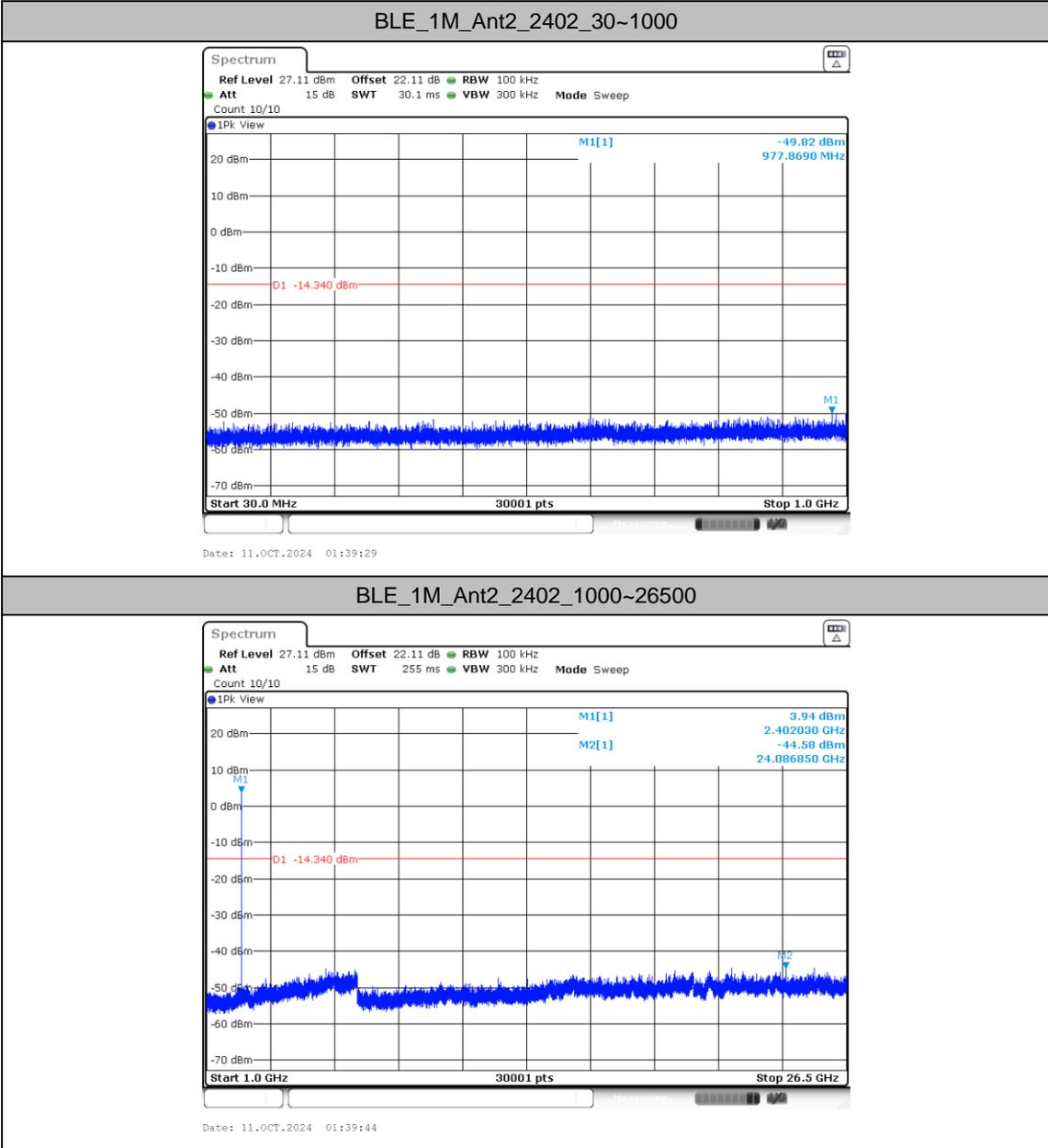
### Test Result

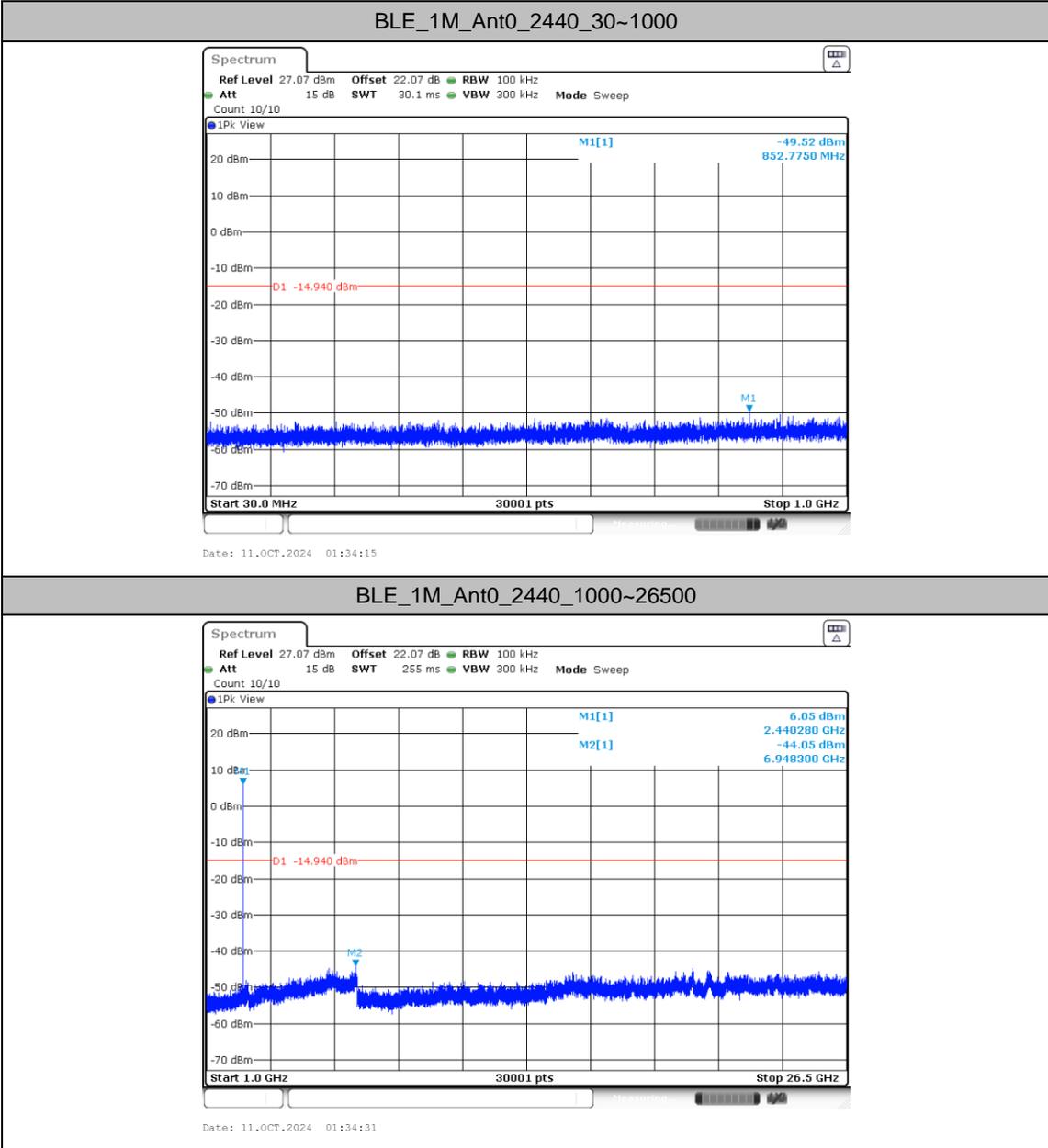
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm/100KHz]	Result [dBm/100KHz]	Limit [dBm/100KHz]	Verdict
BLE_1M	Ant0	2402	30~1000	5.15	-50.68	≤-14.85	PASS
			1000~26500	5.15	-44.29	≤-14.85	PASS
	Ant2	2402	30~1000	5.66	-49.82	≤-14.34	PASS
			1000~26500	5.66	-44.58	≤-14.34	PASS
	Ant0	2440	30~1000	5.06	-49.52	≤-14.94	PASS
			1000~26500	5.06	-44.05	≤-14.94	PASS
	Ant2	2440	30~1000	5.36	-50.4	≤-14.64	PASS
			1000~26500	5.36	-44.57	≤-14.64	PASS
	Ant0	2480	30~1000	4.90	-50.48	≤-15.1	PASS
			1000~26500	4.90	-44.39	≤-15.1	PASS
	Ant2	2480	30~1000	4.86	-50.56	≤-15.14	PASS
			1000~26500	4.86	-44.58	≤-15.14	PASS
BLE_2M	Ant0	2404	30~1000	5.07	-50.87	≤-14.93	PASS
			1000~26500	5.07	-44.11	≤-14.93	PASS
	Ant2	2404	30~1000	5.50	-50.68	≤-14.5	PASS
			1000~26500	5.50	-44.48	≤-14.5	PASS
	Ant0	2440	30~1000	5.01	-50.29	≤-14.99	PASS
			1000~26500	5.01	-44.28	≤-14.99	PASS
	Ant2	2440	30~1000	5.29	-50.93	≤-14.71	PASS
			1000~26500	5.29	-45.04	≤-14.71	PASS
	Ant0	2478	30~1000	4.85	-50.37	≤-15.15	PASS
			1000~26500	4.85	-44.32	≤-15.15	PASS
	Ant2	2478	30~1000	4.82	-50.4	≤-15.18	PASS
			1000~26500	4.82	-44.61	≤-15.18	PASS

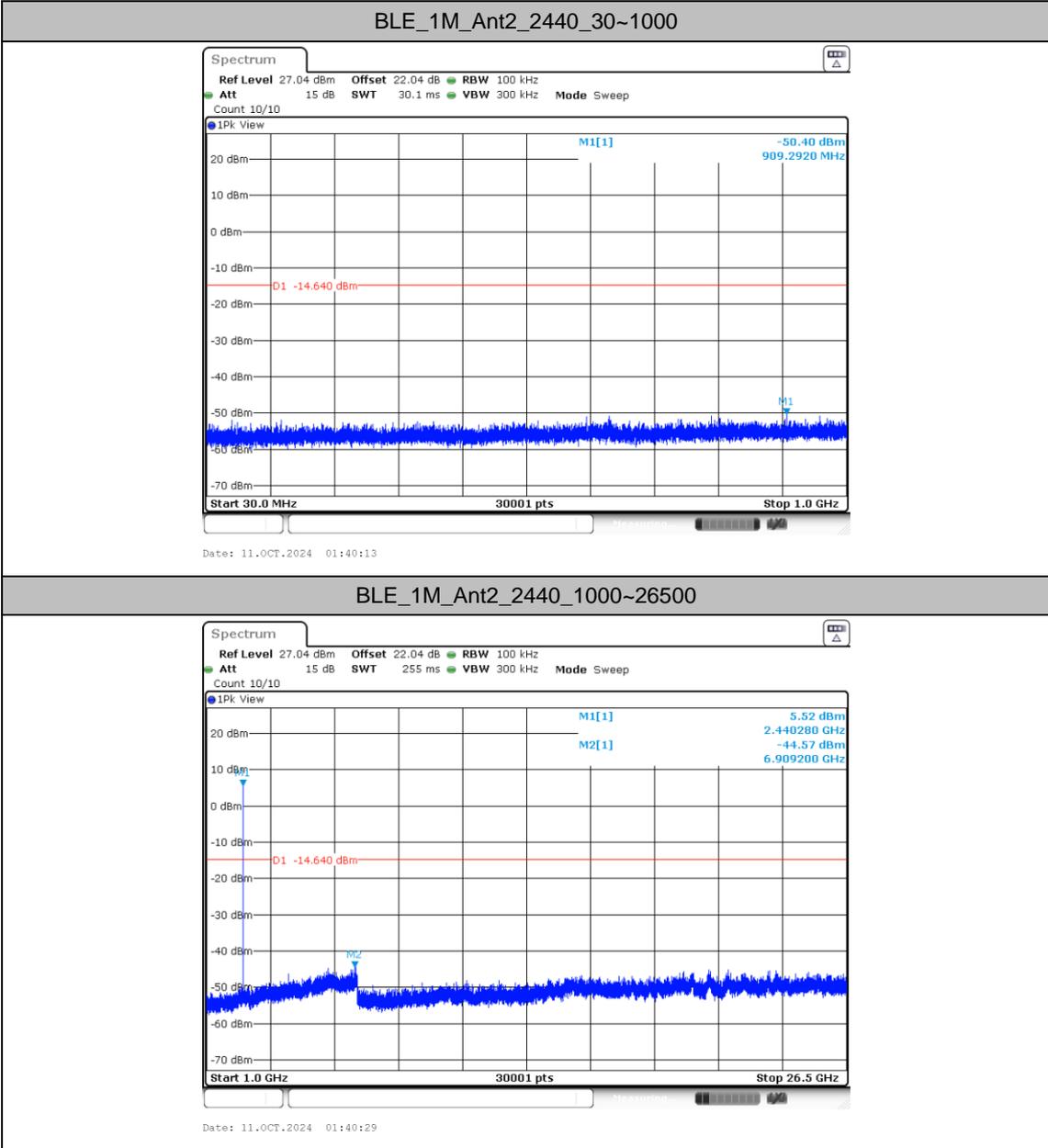


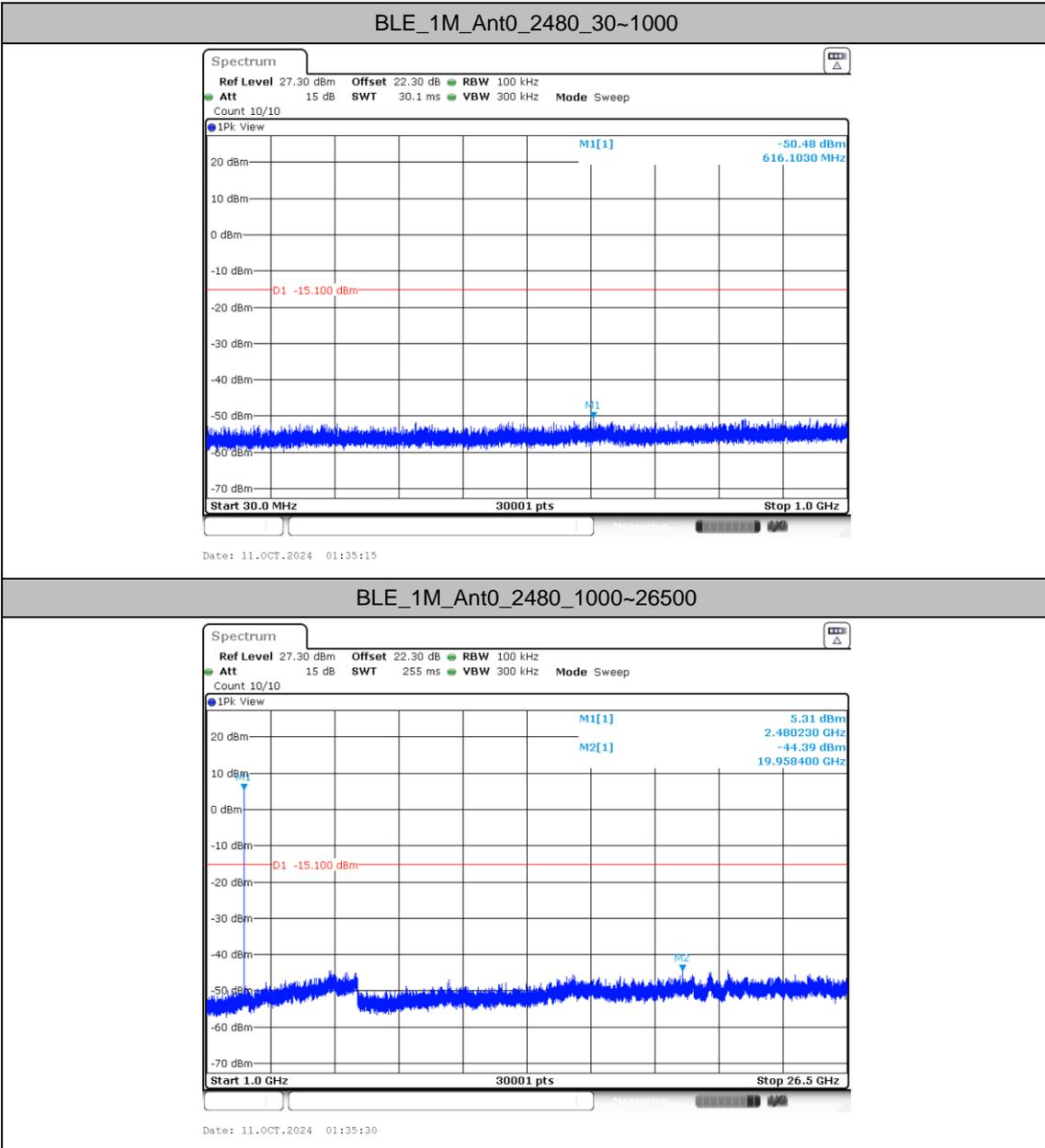
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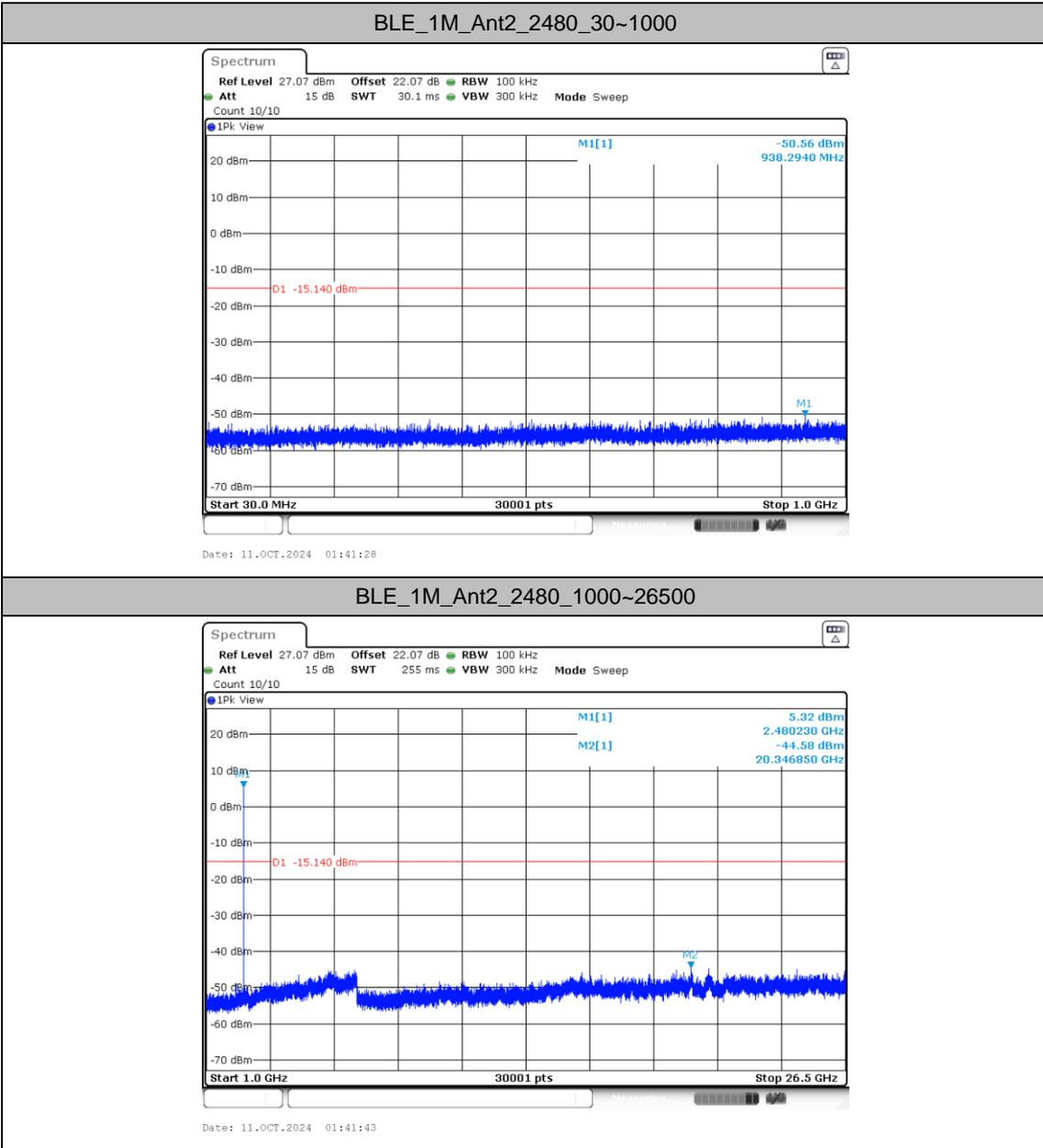


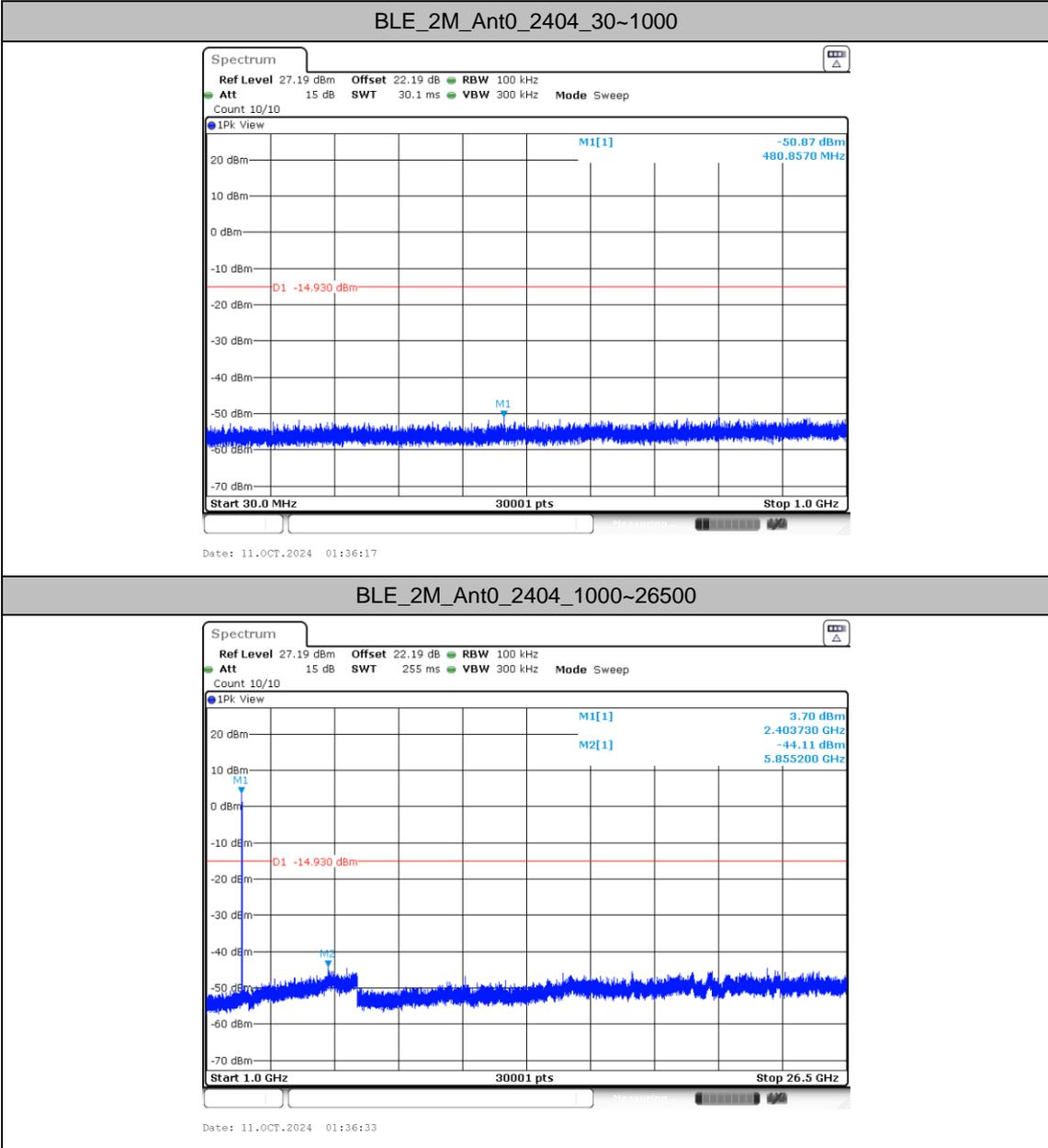


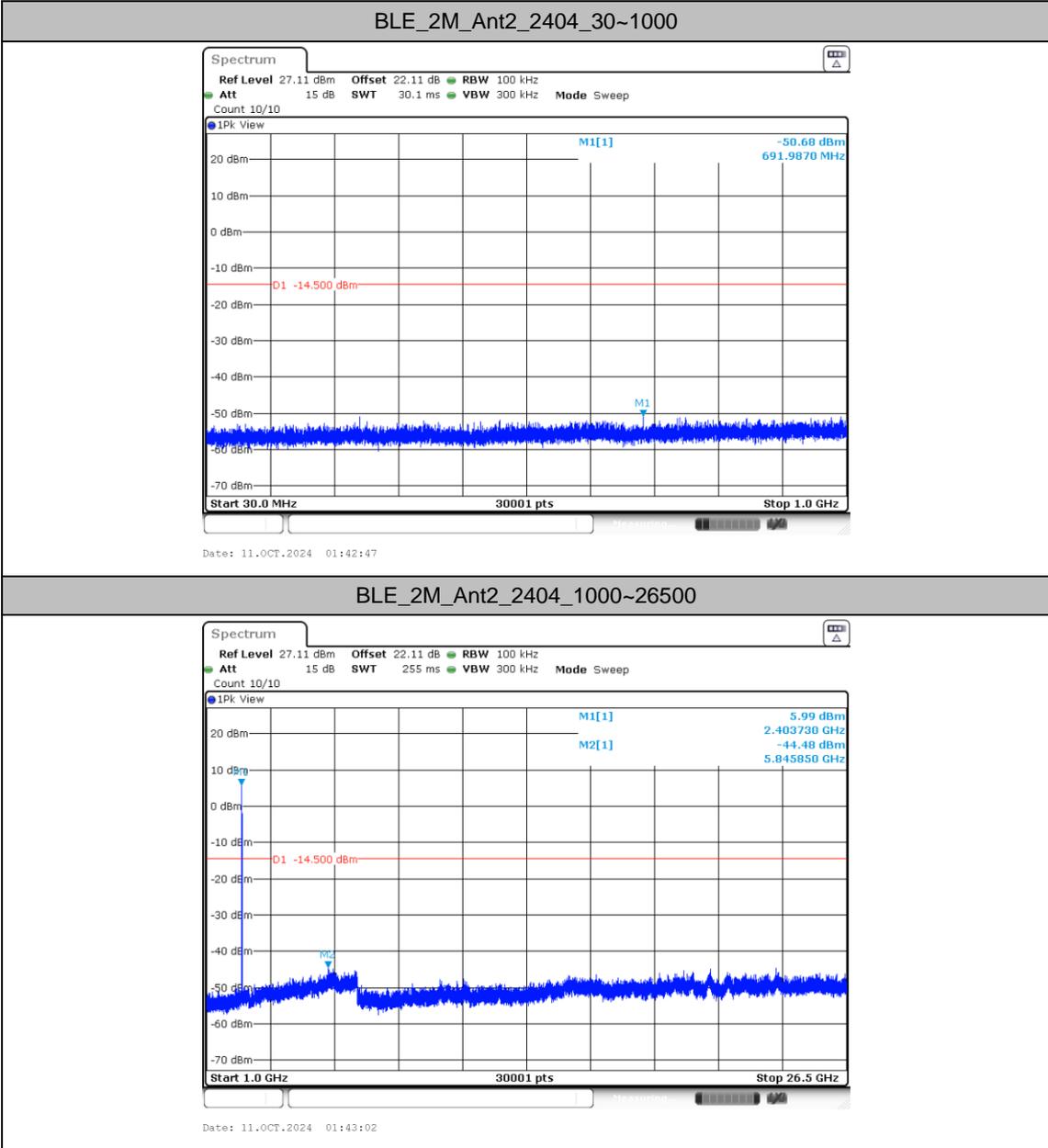






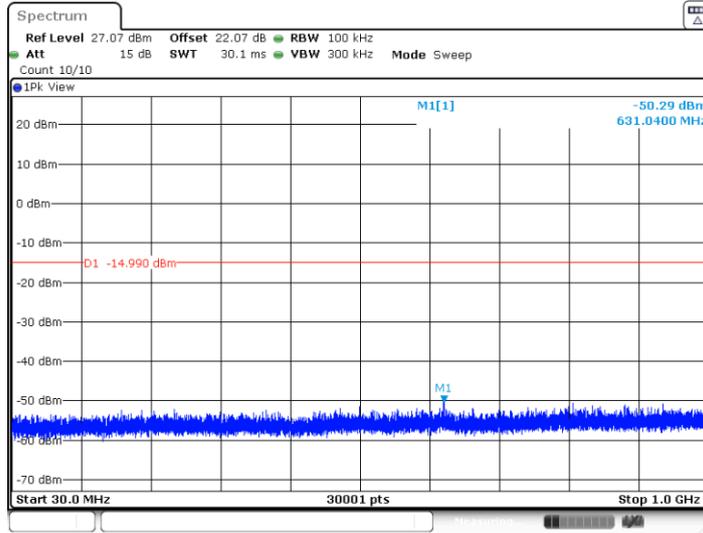






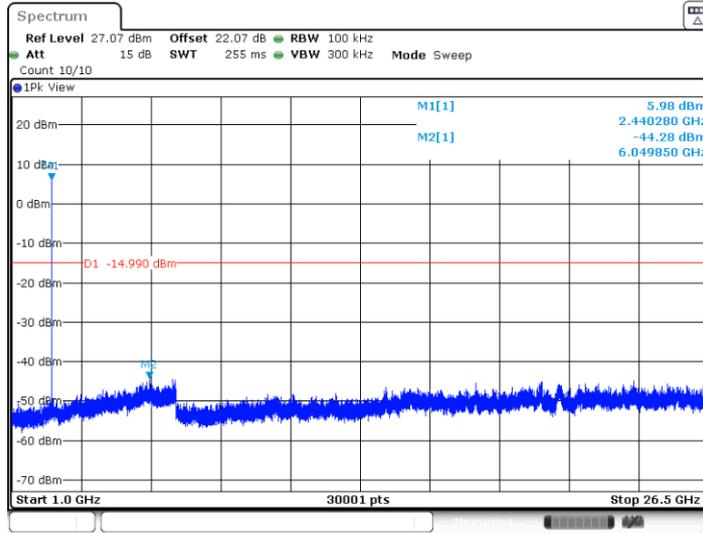


BLE\_2M\_Ant0\_2440\_30~1000

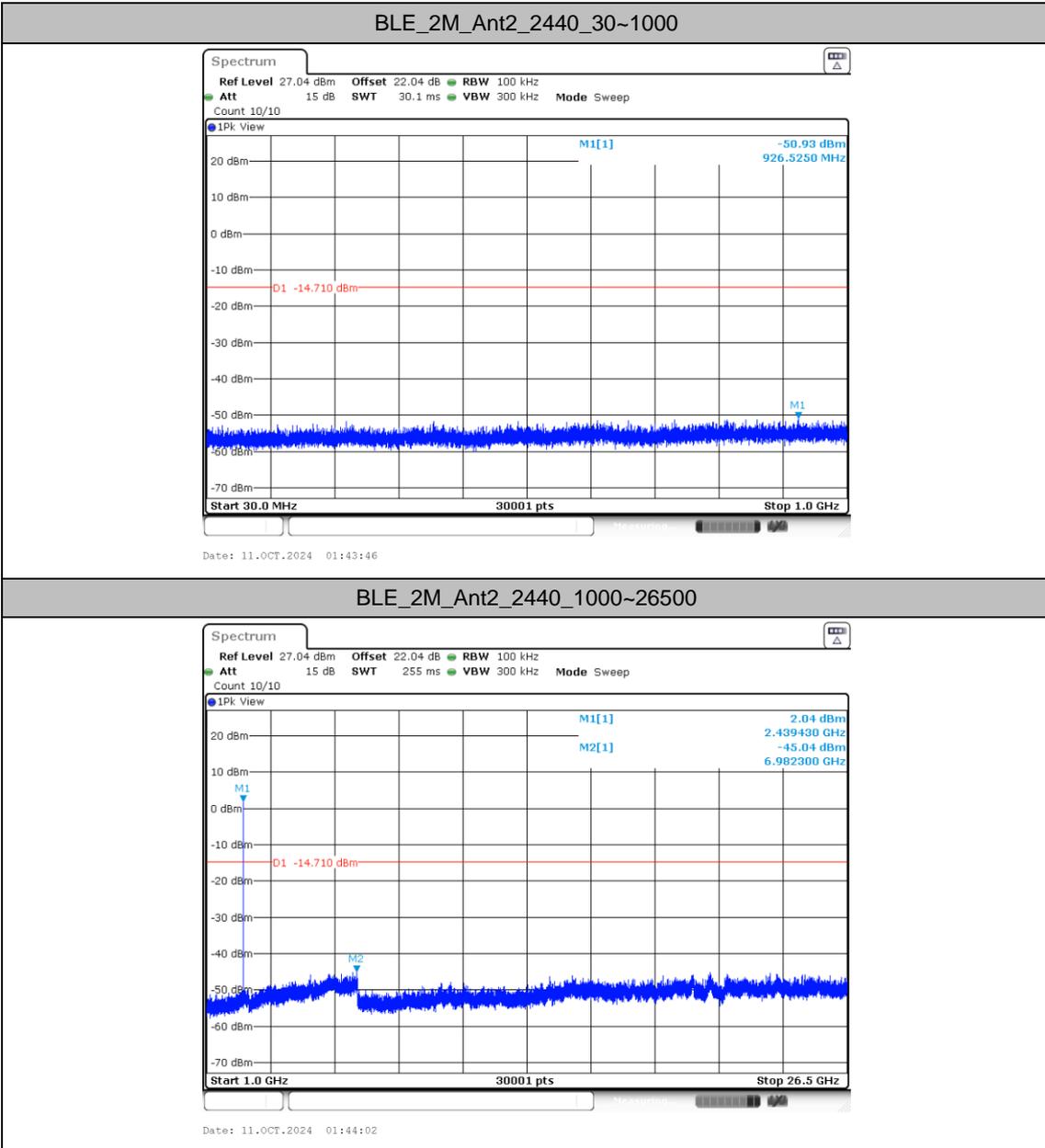


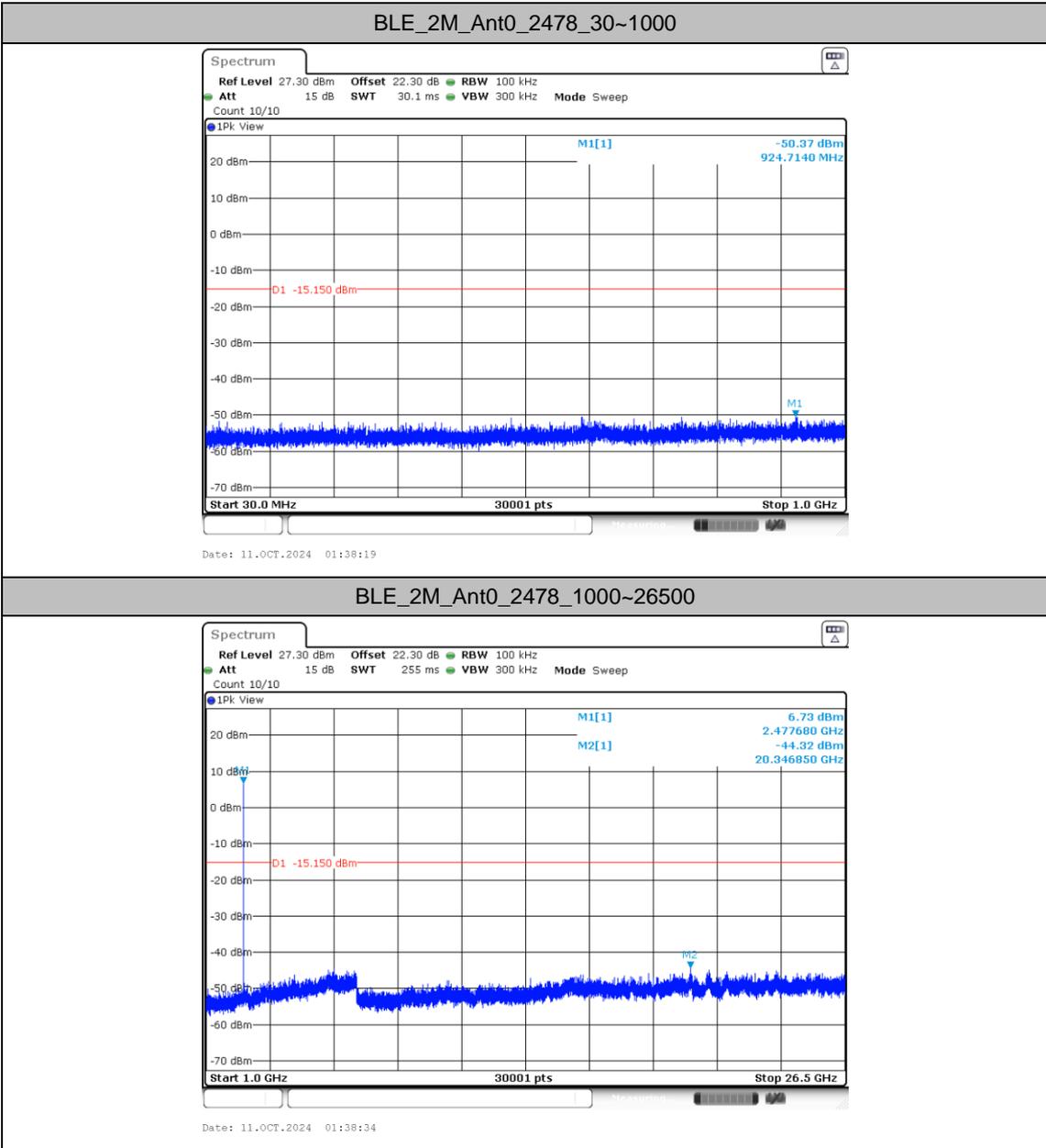
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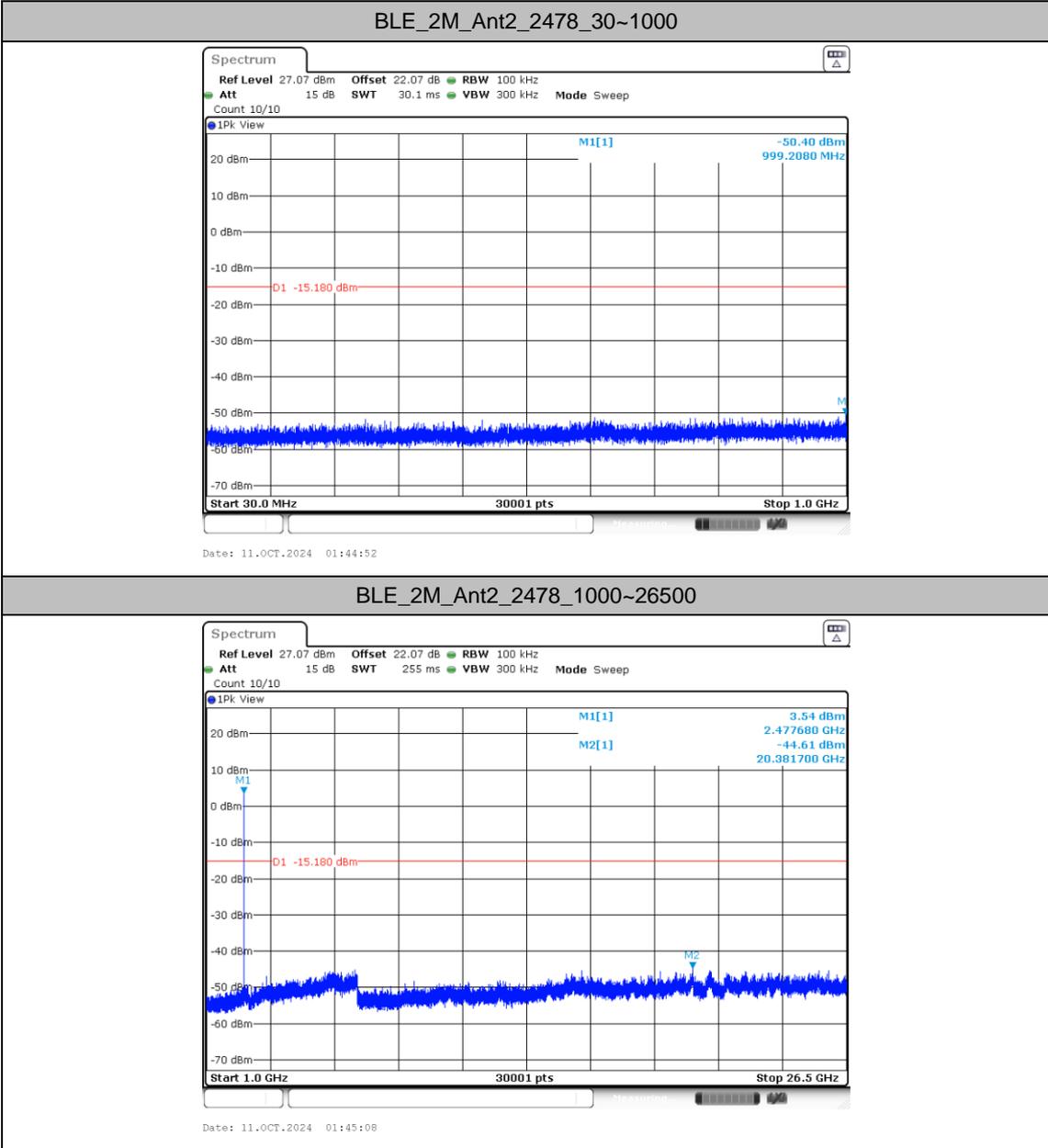
BLE\_2M\_Ant0\_2440\_1000~26500



Date: 11.OCT.2024 01:37:05









## Appendix B Radiated Spurious Emission Test Data

Test Engineer :	Koi Ji	Relative Humidity :	51~53%
		Temperature :	22.2 ~23.5°C

### Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	2	Bluetooth-LE	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
1	Bluetooth-LE	38	2487.82	44.90	54.00	-9.10	H	AVERAGE	Pass	Band Edge
	Bluetooth-LE	38	7434.00	43.01	74.00	-30.99	H	PEAK	Pass	Harmonic



Mode	1																																																																																			
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Mode	1	
	18G-25G	
	2400-2483.5_Bluetooth-LE_GSKF_CH38_2478MHz	
ANT	2	
Pol.	Horizontal	Vertical
Peak Avg	<p>The plot shows the measured signal level in dBuV/m versus frequency in MHz for the horizontal polarization. The y-axis ranges from 0 to 130 dBuV/m, and the x-axis ranges from 18000 to 25000 MHz. A blue line represents the measured signal, which fluctuates around a mean level of approximately 45 dBuV/m. Two red horizontal lines indicate the FCC Part 15C limits: the upper limit is at 70 dBuV/m and the lower limit is at 48.8 dBuV/m. The measured signal remains well below the upper limit and above the lower limit.</p>	<p>The plot shows the measured signal level in dBuV/m versus frequency in MHz for the vertical polarization. The y-axis ranges from 0 to 130 dBuV/m, and the x-axis ranges from 18000 to 25000 MHz. A blue line represents the measured signal, which fluctuates around a mean level of approximately 45 dBuV/m. Two red horizontal lines indicate the FCC Part 15C limits: the upper limit is at 70 dBuV/m and the lower limit is at 48.8 dBuV/m. The measured signal remains well below the upper limit and above the lower limit.</p>



### Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
Bluetooth LE 2Mbps	38.92	0.209	4.792	5.1KHZ

Bluetooth LE 2Mbps

