

<b>Prüfbericht-Nr.:</b> Test report no.:	<b>CN25KTFB 001</b>	<b>Auftrags-Nr.:</b> Order no.:	326068883	Seite 1 von 54 Page 1 of 54
<b>Kunden-Referenz-Nr.:</b> Client reference no.:	1288983	<b>Auftragsdatum:</b> Order date:	2024-12-16	
<b>Auftraggeber:</b> Client:	<b>IKEA of Sweden AB</b> Box 702, SE-343 81 Älmhult, Sweden			
<b>Prüfgegenstand:</b> Test item:	Self-ballasted LED lamps			
<b>Bezeichnung / Typ-Nr.:</b> Identification / Type no.:	LED2411G3NA			
<b>Auftrags-Inhalt:</b> Order content:	Test Report			
<b>Prüfgrundlage:</b> Test specification:	FCC CFR47 Part 15, Subpart C Section 15.247 RSS-Gen Issue 5, Amendment 2, February 2021 RSS-247 Issue 3, August 2023 ANSI C63.10: 2013			
<b>Wareneingangsdatum:</b> Date of sample receipt:	2025-03-06	Refer to photo document.		
<b>Prüfmuster-Nr.:</b> Test sample no.:	A003939748-007~009,015			
<b>Prüfzeitraum:</b> Testing period:	2025-03-20 ~ 2025-06-12			
<b>Ort der Prüfung:</b> Place of testing:	TÜV Rheinland (Shanghai) Co., Ltd.			
<b>Prüflaboratorium:</b> Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
<b>Prüfergebnis*:</b> Test result*:	Pass			
<b>geprüft von:</b> tested by:	X <u>Hongfei Wu</u>	<b>genehmigt von:</b> authorized by:	X <u>Elliot Zhang</u>	
<b>Datum:</b> Date:	2025-06-16 <small>Signed by: Hongfei Wu</small>	<b>Datum:</b> Date:	2025-06-16 <small>Signed by: Elliot Zhang</small>	
<b>Stellung / Position:</b>	Sachverständige(r)/Expert	<b>Stellung / Position:</b>	Sachverständige(r)/Expert	
<b>Sonstiges / Other:</b>	FCC ID: FHO-LED2411G3NA IC: 10912A-LED2411G3NA HVIN: LED2411G3NA PMN: KAJPLATS This report is for BLE.			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

Prüfbericht-Nr.: CN25KTFB 001  
Test report no.:

Seite 2 von 54  
Page 2 of 54

**Anmerkungen**  
*Remarks*

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<p>4</p>	<p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>

## TEST SUMMARY

**5.1.1 ANTENNA REQUIREMENT***RESULT: Pass***5.1.2 6dB & 99% BANDWIDTH***RESULT: Pass***5.1.3 OUTPUT POWER***RESULT: Pass***5.1.4 POWER SPECTRAL DENSITY***RESULT: Pass***5.1.5 CONDUCTED BAND EDGE AND OUT-OF BAND EMISSIONS***RESULT: Pass***5.2.1 CONDUCTED EMISSION***RESULT: Pass***5.3.1 RADIATED BAND-EDGE***RESULT: Pass***5.3.2 RADIATED SPURIOUS EMISSION***RESULT: Pass*

## Contents

<b>1.</b>	<b>GENERAL REMARKS .....</b>	<b>5</b>
<b>1.1</b>	<b>COMPLEMENTARY MATERIALS.....</b>	<b>5</b>
<b>2.</b>	<b>TEST SITES .....</b>	<b>6</b>
<b>2.1</b>	<b>TEST FACILITIES.....</b>	<b>6</b>
<b>2.2</b>	<b>LIST OF TEST AND MEASUREMENT INSTRUMENTS.....</b>	<b>7</b>
<b>2.3</b>	<b>TRACEABILITY .....</b>	<b>7</b>
<b>2.4</b>	<b>CALIBRATION .....</b>	<b>8</b>
<b>2.5</b>	<b>MEASUREMENT UNCERTAINTY .....</b>	<b>8</b>
<b>3.</b>	<b>GENERAL PRODUCT INFORMATION.....</b>	<b>9</b>
<b>3.1</b>	<b>PRODUCT FUNCTION AND INTENDED USE .....</b>	<b>9</b>
<b>3.2</b>	<b>RATINGS AND SYSTEM DETAILS.....</b>	<b>9</b>
<b>3.3</b>	<b>INDEPENDENT OPERATION MODES.....</b>	<b>10</b>
<b>3.4</b>	<b>NOISE GENERATING AND NOISE SUPPRESSING PARTS .....</b>	<b>10</b>
<b>4.</b>	<b>TEST SET-UP AND OPERATION MODES.....</b>	<b>11</b>
<b>4.1</b>	<b>PRINCIPLE OF CONFIGURATION SELECTION .....</b>	<b>11</b>
<b>4.2</b>	<b>TEST OPERATION AND TEST SOFTWARE.....</b>	<b>11</b>
<b>4.3</b>	<b>SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT .....</b>	<b>11</b>
<b>4.4</b>	<b>COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....</b>	<b>11</b>
<b>5.</b>	<b>TEST RESULTS .....</b>	<b>12</b>
<b>5.1</b>	<b>CONDUCTED TESTING AT ANTENNA PORT .....</b>	<b>12</b>
5.1.1	<i>Antenna Requirement.....</i>	<i>12</i>
5.1.2	<i>6dB &amp; 99% Bandwidth.....</i>	<i>14</i>
5.1.3	<i>Output Power .....</i>	<i>27</i>
5.1.4	<i>Power Spectral Density .....</i>	<i>28</i>
5.1.5	<i>Conducted Band Edge and out-of Band Emissions.....</i>	<i>35</i>
<b>5.2</b>	<b>EMISSION IN THE FREQUENCY RANGE UP TO 30MHZ.....</b>	<b>39</b>
5.2.1	<i>Conducted Emission.....</i>	<i>39</i>
<b>5.3</b>	<b>EMISSION IN THE FREQUENCY RANGE ABOVE 30MHZ .....</b>	<b>42</b>
5.3.1	<i>Radiated Band-Edge .....</i>	<i>42</i>
5.3.2	<i>Radiated Spurious Emission.....</i>	<i>47</i>
<b>6.</b>	<b>LIST OF TABLES .....</b>	<b>54</b>
<b>7.</b>	<b>LIST OF FIGURES .....</b>	<b>54</b>

## 1. General Remarks

### 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

## 2. Test Sites

### 2.1 Test Facilities

TÜV Rheinland (Shanghai) Co., Ltd.  
Workshop14, North Half of Workshop 10 and Workshop 16, Pingqian (Taicang) Modern Industrial Park, No.525, Yuewang Lingang South Road, Shaxi, Taicang, Jiangsu, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 930979.

The Innovation, Science and Economic Development Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 33038.

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

<b>Equip.</b>	<b>Description</b>	<b>Model</b>	<b>Manufacturer</b>	<b>Due Date</b> DD.MM.YYYY
EMC-C-196	Wireless connectivity tester	CMW270	Rohde & Schwarz	23.08.2025
EMC-C-302	Signal generator	SMB100B (6 GHz)	Rohde & Schwarz	10.12.2025
EMC-C-303	Vector Signal generator	SMW200A	Rohde & Schwarz	10.12.2025
EMC-C-304	OSP	OSP-B157W8	Rohde & Schwarz	10.12.2025
EMC-C-161	Spectrum analyser	FSV40	Rohde&Schwarz	15.07.2025
EMC-C-018	Double ridged horn antenna	BBHA 9120 D	Schwarzbeck	24.03.2026
EMC-C-066	EMI test receiver	ESCI	Rohde&Schwarz	27.10.2025
EMC-C-068	Broadband horn antenna	BBHA 9170	Schwarzbeck	18.06.2028
EMC-C-155	BiLog antenna	CBL 6112D	Teseq	24.03.2026
EMC-C-175	Preamplifier	EMC051845SE	EMCI Taiwan	24.07.2025
EMC-C-176	Preamplifier	EMC184045SE	EMCI Taiwan	24.07.2025
EMC-C-001	3 m semi-anechoic chamber	SAC3	Frankonia	03.12.2026
EMC-C-141	Shielded enclosure	10.055x3.605x3.000	Frankonia	08.11.2028
EMC-C-195	EMI test receiver	ESR3	Rohde&Schwarz	03.08.2025
EMC-C-190	Artificial mains network	ENV432	Rohde&Schwarz	11.10.2025
software				
EMC-S-036	RF measurement software	WMS32-WB (11.40.00)	Rohde&Schwarz	NA
EMC-S-032	EMI measurement software	EMC32-E+ (10.60.20)	Rohde&Schwarz	NA
EMC-S-028	EMI measurement software	EMC32-MEB (10.60.20)	Rohde&Schwarz	NA

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

**Table 2: Measurement Uncertainty**

Measurement Type	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	±0.39dB
	> 1GHz	±0.68dB
Conducted Emission	150kHz - 30MHz	±2.33dB
Radiated Emission	9kHz - 30MHz	±2.93dB
	30MHz - 1GHz	±5.34dB
	> 1GHz	±5.40dB

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a LED lamp which supports Bluetooth, Zigbee and Thread.

The aim of this report is to evaluate RF character of BLE of the EUT.

#### 3.2 Ratings and System Details

**Table 3: Technical Specification of EUT**

General Description of EUT	
Product Name:	Self-ballasted LED lamps
Model No.:	LED2411G3NA
Operation Voltage:	AC 120V, 60Hz
Test Voltage:	DC 3.3V for RF conducted and radiated test AC 120V, 60Hz for conducted emission test
RF Technical:	1) BLE 2) Zigbee 3) Thread
Technical Specification of BLE	
RF IC:	SiMG301
Frequency Range:	2402~2480MHz
Modulation Type:	GFSK
Data Rate:	1Mbps, 2Mbps
Antenna Type:	Monopole Antenna
Antenna Gain:	1.23 dBi (declared by client)

**Table 4: Operation Channel List**

RF Channel	Frequency [MHz]						
<b>00</b>	<b>2402</b>	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	<b>19</b>	<b>2440</b>	29	2460	<b>39</b>	<b>2480</b>

### 3.3 Independent Operation Modes

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz

The basic operation modes are:

- A. BLE transmitting mode
- B. Radio operating mode

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

Test Software: SSCOM 5.12.1

**Table 5: Power parameter value**

Mode	Power Parameter Setting Value
BLE	80

### 4.3 Special Accessories and Auxiliary Equipment

**Table 6: Auxiliary Equipment**

Equipment	Manufacturer	Model
Laptop	Lenovo	21AJ-S57N0J
Mobile phone	Apple	iPhone 15
Loudspeaker	Apple	HomePod mini
Remote control	IKEA	E2489

### 4.4 Countermeasures to achieve EMC Compliance

Null.

## 5. Test Results

### 5.1 Conducted Testing at Antenna Port

#### 5.1.1 Antenna Requirement

**RESULT:** **Pass**

According to the manufacturer declared, the EUT has one internal monopole antenna, the directional gain of antenna is 1.23 dBi and the antenna is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

**Table 7: Antenna Requirement**

#### FCC 15.203 – Antenna Requirement 1

Requirement: No antenna other than that furnished by the responsible party shall be used with the device

Results: Antenna type: Monopole Antenna

Verdict: Pass

#### FCC 15.204 – Antenna Requirement 2

Requirement: An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator.

Results: Only one monopole antenna can be used

Verdict: Pass

#### RSS-Gen 6.4 – External Control

Requirement: The device shall not have any external controls accessible to the user that enable it to be adjusted, selected or programmed to operate in violation of the regulatory requirements, including RSS-Gen and the applicable RSSs

Results: The device does not have any transmitter external controls accessible to the user that can be adjusted and operated in violation of the limits of this standard.

Verdict: PASS

**Prüfbericht - Nr.: CN25KTFB 001**  
Test Report No.**Seite 13 von 54**  
Page 13 of 54**RSS-Gen 6.8 – Antenna Requirement**

**Requirement:** When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

**Results:**

a) Antenna Type:	Monopole Antenna
b) Manufacture:	N/A
c) Model No.:	N/A
d) Gain with reference to an isotropic radiator:	1.23 dBi

**Verdict:** PASS

### 5.1.2 6dB & 99% Bandwidth

**RESULT:****Pass**

Date of testing : 2025-05-27~2025-05-28  
Ambient temperature : 21.4°C~23.7°C  
Relative humidity : 50.4%~51.3%  
Atmospheric pressure : 101kPa  
Test requirement : FCC Part 15.247(a)(2)  
RSS-247 Issue 3, August 2023, Clause 5.2(a)  
RSS-Gen Issue 5, Amendment 2, February 2021, Clause  
6.7  
Test procedure : ANSI C63.10: 2013  
Test voltage : DC 3.3V  
Test modes applied : A

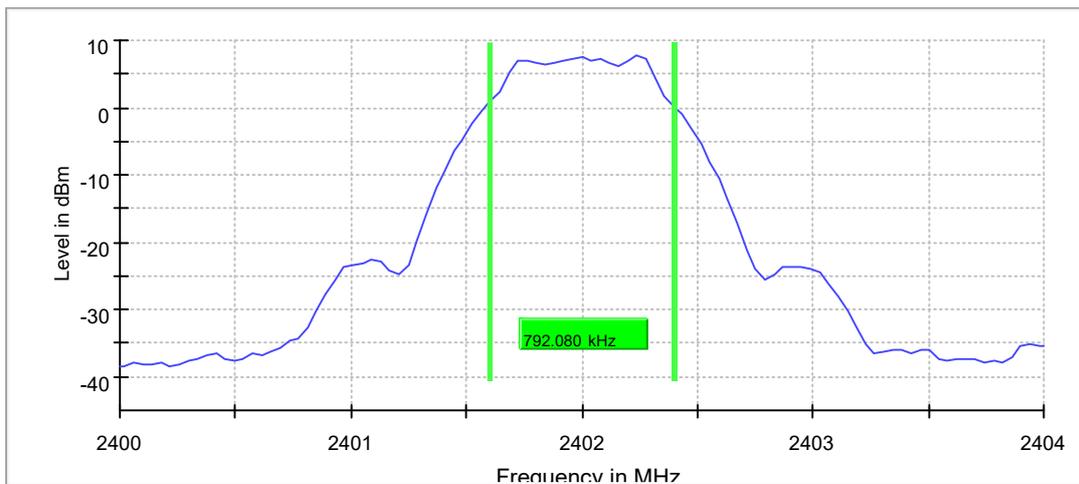
**6dB Bandwidth, 1Mbps, 2402MHz**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.792080	0.500000	---	2401.603960	2402.396040

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	7.7	PASS

6 dB Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
Sweeptime	18.938 $\mu$ s	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.50 dB

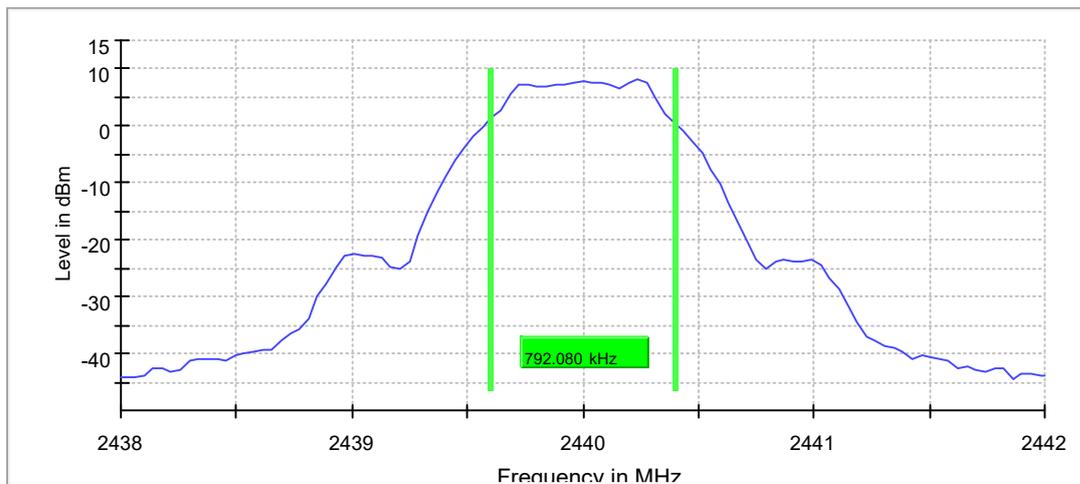
**6dB Bandwidth, 1Mbps, 2440MHz**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	0.792080	0.500000	---	2439.603960	2440.396040

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	8.1	PASS

6 dB Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
Sweeptime	18.938 $\mu$ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.15 dB	0.50 dB

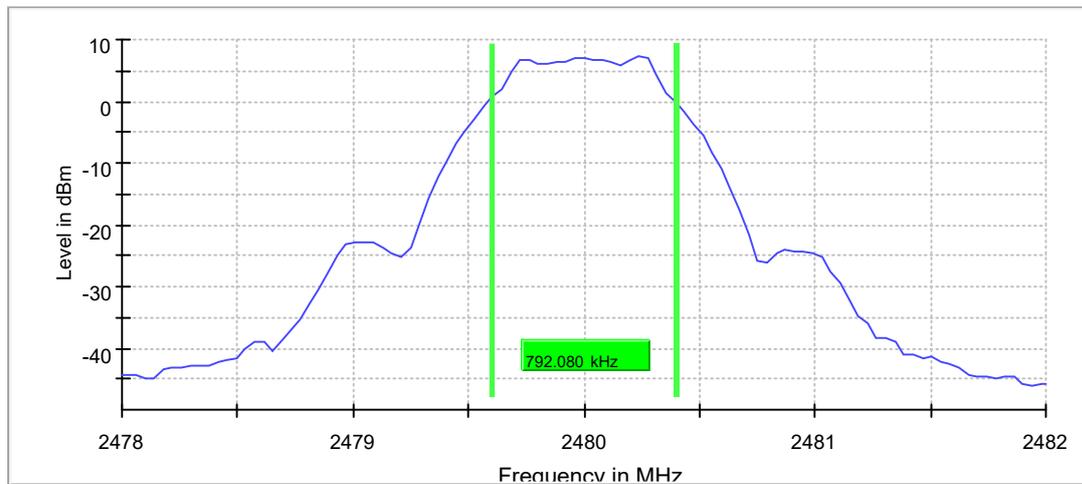
**6dB Bandwidth, 1Mbps, 2480MHz**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.792080	0.500000	---	2479.603960	2480.396040

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	7.3	PASS

6 dB Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
Sweptime	18.938 $\mu$ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.01 dB	0.50 dB

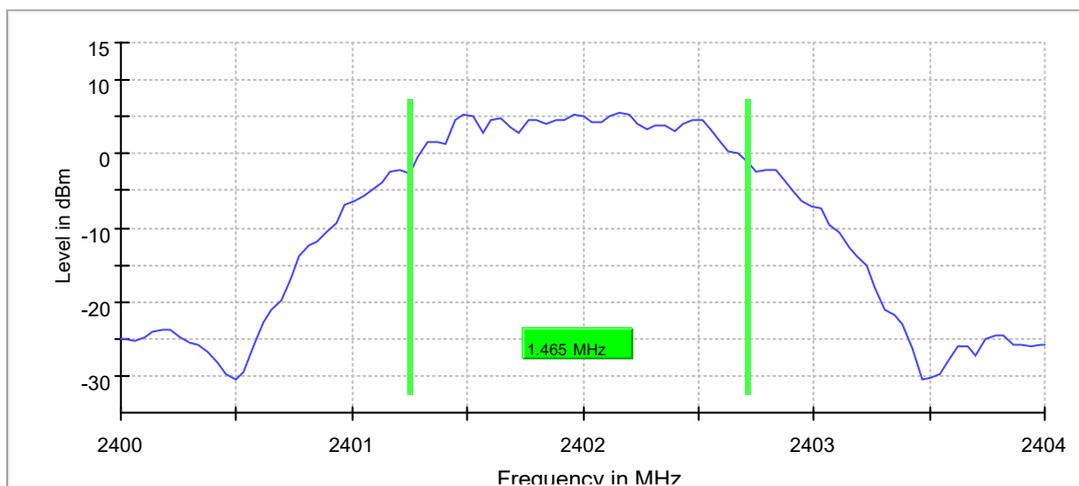
**6dB Bandwidth, 2Mbps, 2402MHz**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.465346	0.500000	---	2401.247525	2402.712871

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	5.4	PASS

6 dB Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
Sweeptime	18.938 µs	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.08 dB	0.50 dB

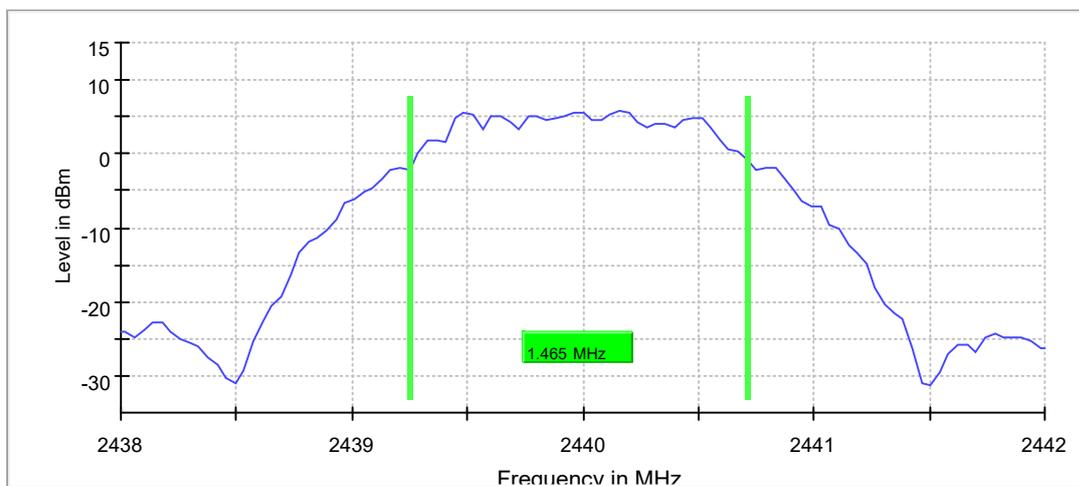
**6dB Bandwidth, 2Mbps, 2440MHz**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.465346	0.500000	---	2439.247525	2440.712871

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	5.8	PASS

6 dB Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
Sweeptime	18.938 $\mu$ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.01 dB	0.50 dB

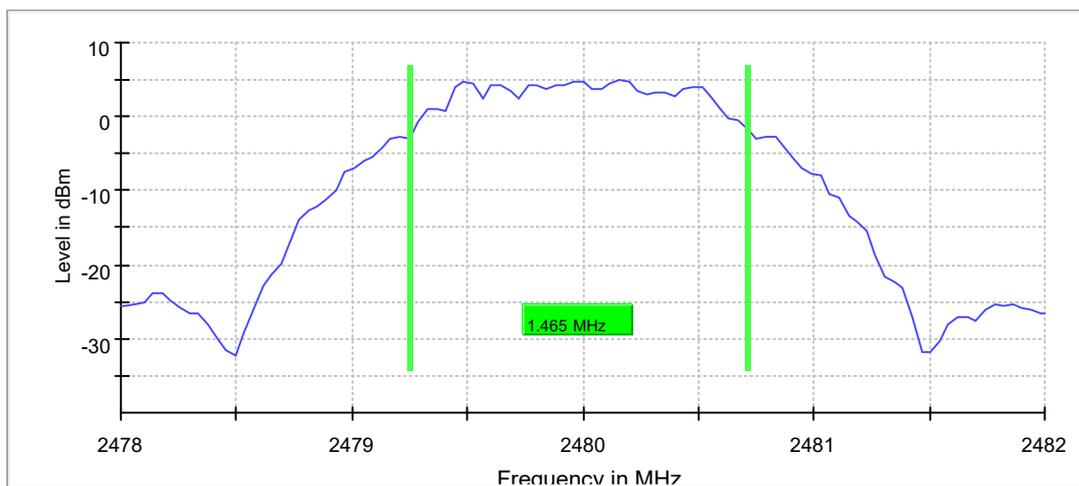
**6dB Bandwidth, 2Mbps, 2480MHz**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.465346	0.500000	---	2479.247525	2480.712871

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	5.0	PASS

6 dB Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
Sweeptime	18.938 $\mu$ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.03 dB	0.50 dB

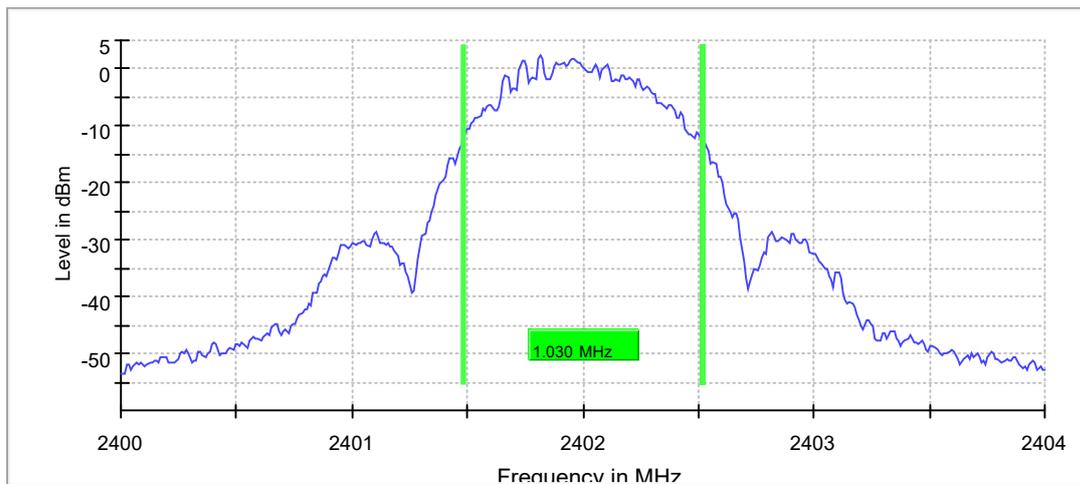
**99% Occupied Channel Bandwidth, 1Mbps, 2402MHz**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.030000	---	---	2401.485000	2402.515000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

99 % Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	6 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.07 dB	0.30 dB

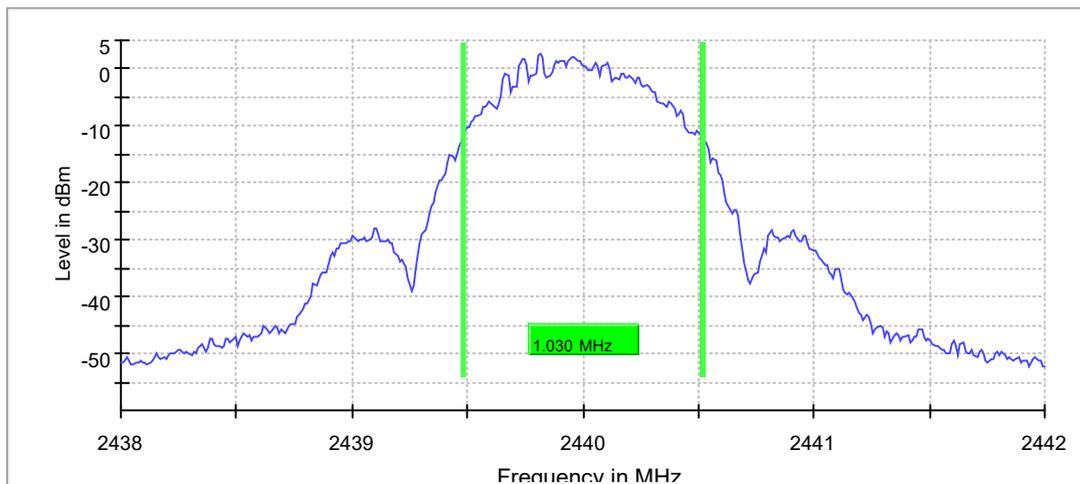
**99% Occupied Channel Bandwidth, 1Mbps, 2440MHz**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.030000	---	---	2439.485000	2440.515000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS

99 % Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 $\mu$ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	7 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.05 dB	0.30 dB

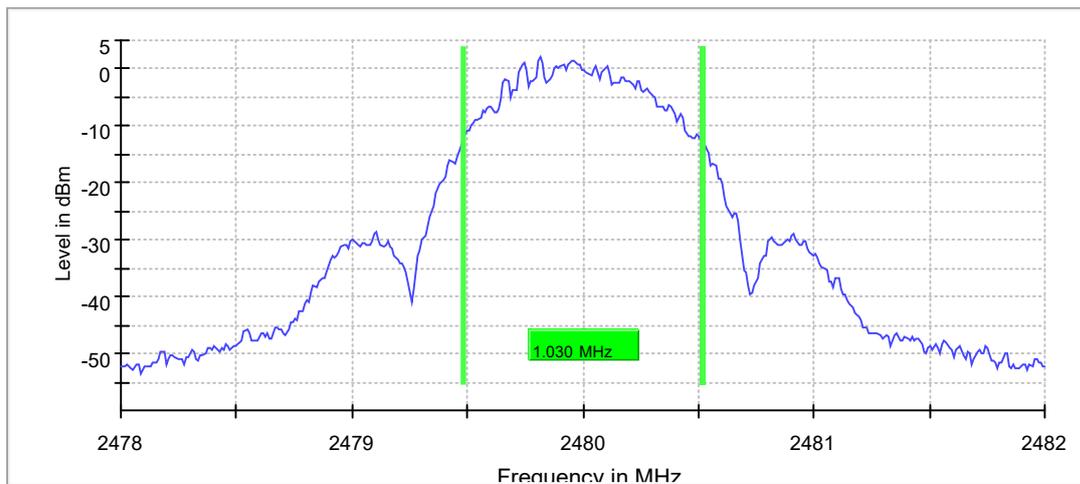
**99% Occupied Channel Bandwidth, 1Mbps, 2480MHz**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.030000	---	---	2479.485000	2480.515000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.05 dB	0.30 dB

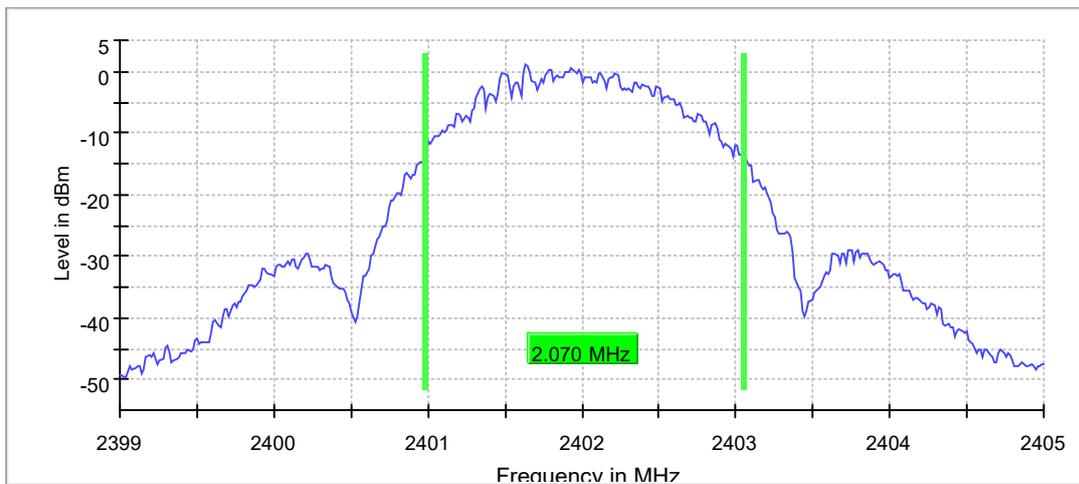
**99% Occupied Channel Bandwidth, 2Mbps, 2402MHz**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	2.070000	---	---	2400.972500	2403.042500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

99 % Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.39900 GHz	2.39900 GHz
Stop Frequency	2.40500 GHz	2.40500 GHz
Span	6.000 MHz	6.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	400	~ 400
Sweeptime	63.216 $\mu$ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.08 dB	0.30 dB

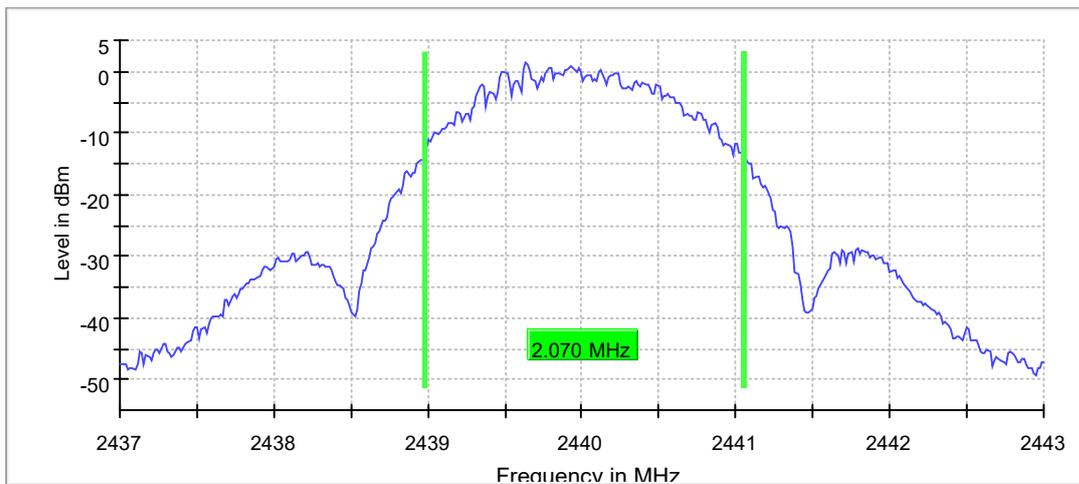
**99% Occupied Channel Bandwidth, 2Mbps, 2440MHz**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	2.070000	---	---	2438.972500	2441.042500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS

99 % Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.43700 GHz	2.43700 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	6.000 MHz	6.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	400	~ 400
Sweeptime	63.216 $\mu$ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.09 dB	0.30 dB

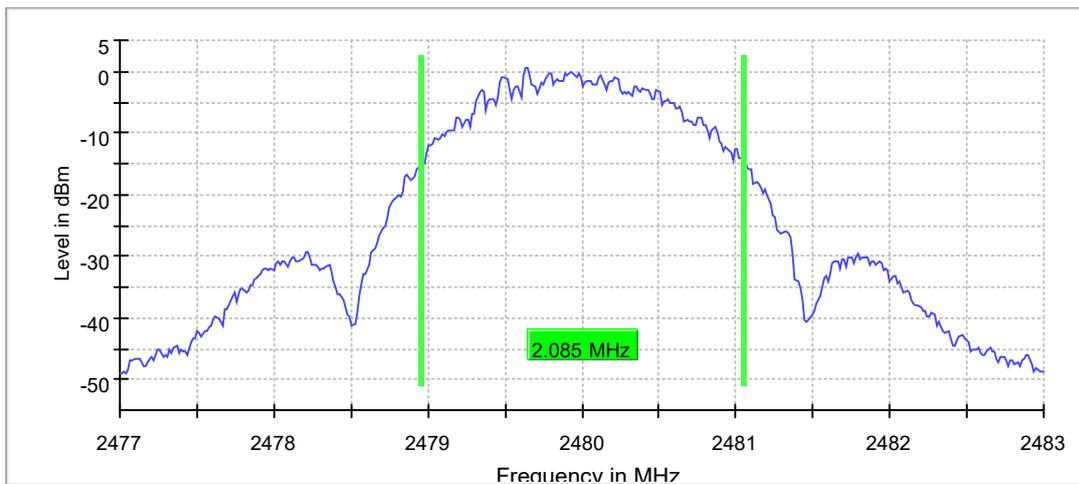
**99% Occupied Channel Bandwidth, 2Mbps, 2480MHz**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	2.085000	---	---	2478.957500	2481.042500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.47700 GHz	2.47700 GHz
Stop Frequency	2.48300 GHz	2.48300 GHz
Span	6.000 MHz	6.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	400	~ 400
Sweeptime	63.216 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.09 dB	0.30 dB



## 5.1.4 Power Spectral Density

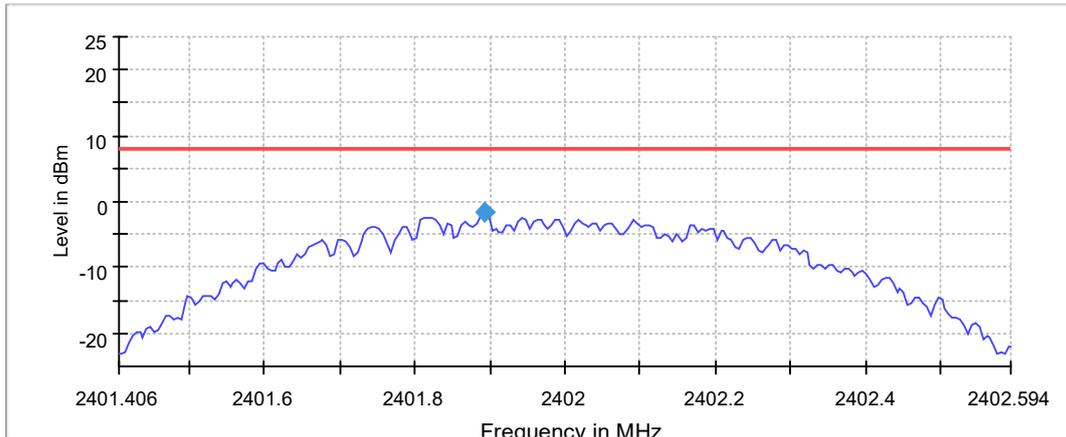
**RESULT:****Pass**

Date of testing : 2025-06-12  
Ambient temperature : 23.8°C  
Relative humidity : 56.7%  
Atmospheric pressure : 101kPa  
Test requirement : FCC Part 15.247(e)  
RSS-247 Issue 3, August 2023, Clause 5.2(b)  
Test procedure : ANSI C63.10: 2013  
Test voltage : DC 3.3V  
Test modes applied : A

**Power Spectral Density, 1Mbps, 2402MHz**

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2401.892670	-1.692	8.0	PASS

Peak Power Spectral Density



— Limit      — Sum Level      ◆ PSD

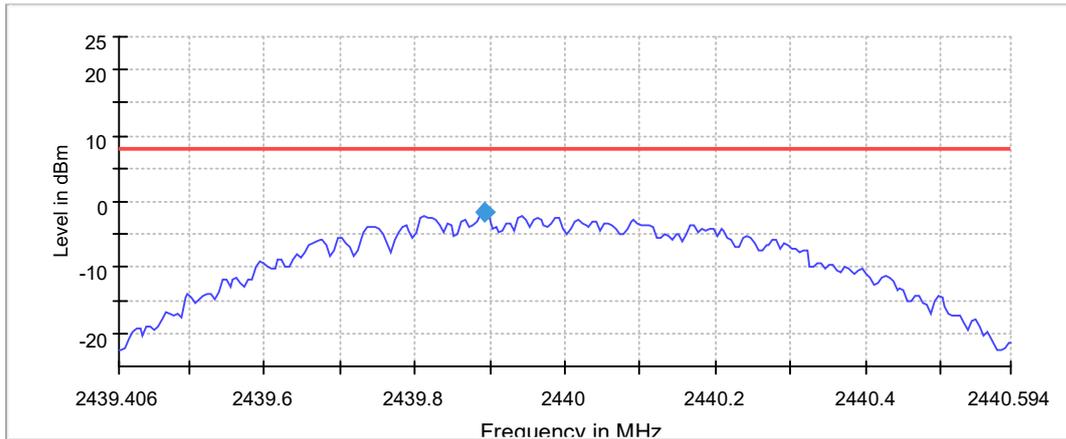
**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.40141 GHz	2.40141 GHz
Stop Frequency	2.40259 GHz	2.40259 GHz
Span	1.188 MHz	1.188 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	238	~ 238
Sweeptime	1.190 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.06 dB	0.50 dB

**Power Spectral Density, 1Mbps, 2440MHz**

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2439.892670	-1.550	8.0	PASS

Peak Power Spectral Density



— Limit    
 — Sum Level    
 ◆ PSD

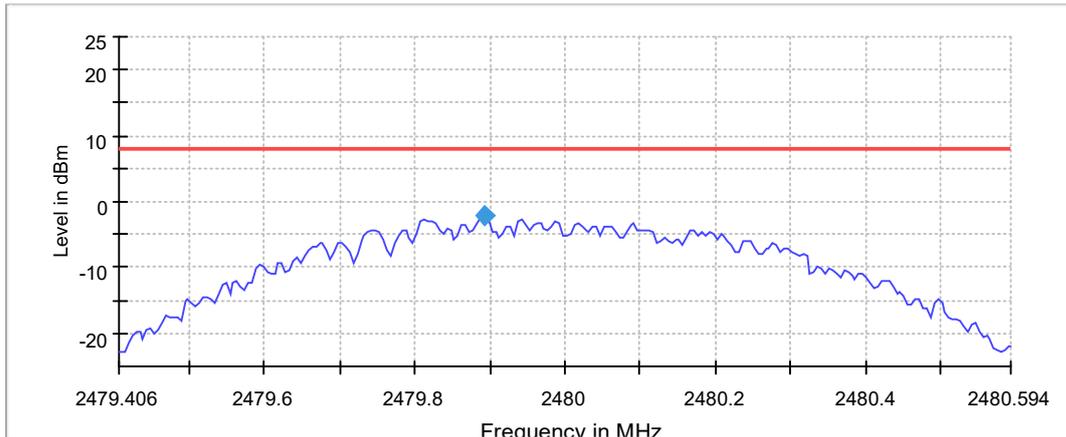
**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.43941 GHz	2.43941 GHz
Stop Frequency	2.44059 GHz	2.44059 GHz
Span	1.188 MHz	1.188 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	238	~ 238
Sweeptime	1.190 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	3 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.08 dB	0.50 dB

**Power Spectral Density, 1Mbps, 2480MHz**

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2479.892670	-2.235	8.0	PASS

Peak Power Spectral Density



— Limit      — Sum Level      ◆ PSD

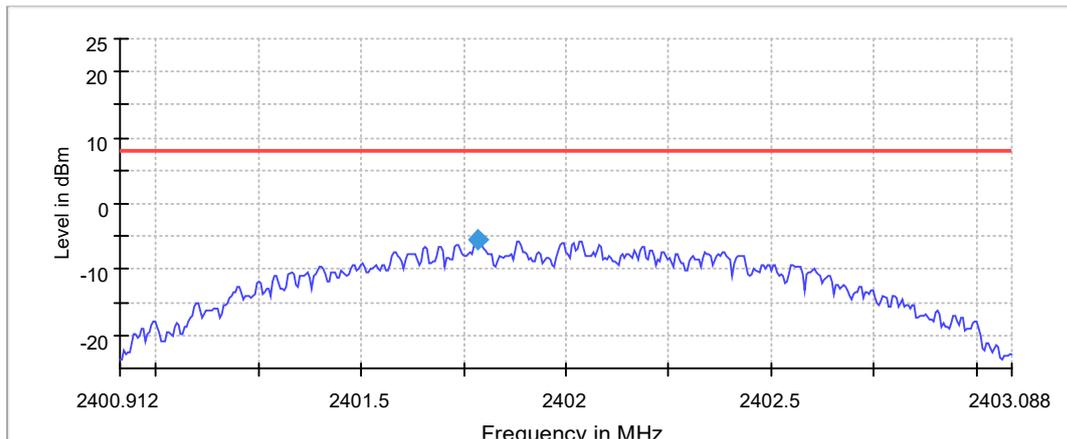
**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.47941 GHz	2.47941 GHz
Stop Frequency	2.48059 GHz	2.48059 GHz
Span	1.188 MHz	1.188 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	238	~ 238
Sweeptime	1.190 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.06 dB	0.50 dB

**Power Spectral Density, 2Mbps, 2402MHz**

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2401.785000	-5.548	8.0	PASS

Peak Power Spectral Density



— Limit      — Sum Level      ◆ PSD

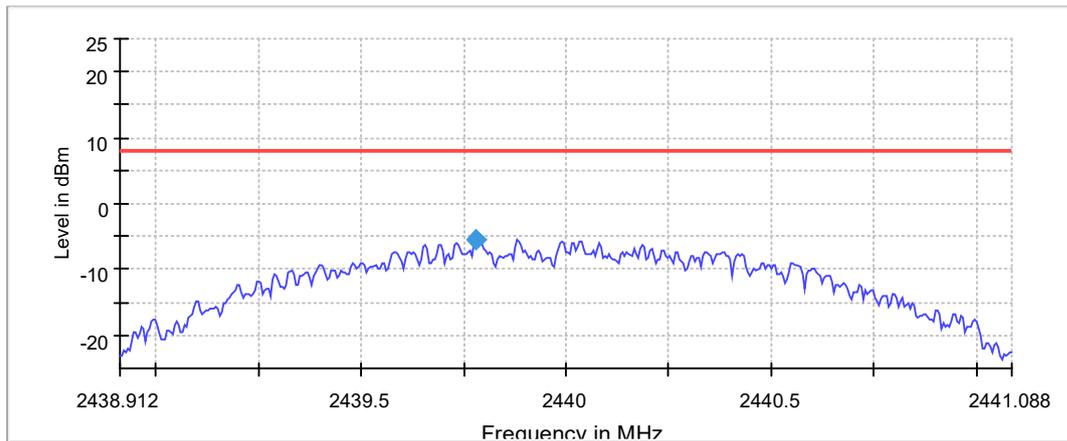
**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.40091 GHz	2.40091 GHz
Stop Frequency	2.40309 GHz	2.40309 GHz
Span	2.175 MHz	2.175 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	435	~ 435
Sweeptime	2.180 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	3 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.09 dB	0.50 dB

**Power Spectral Density, 2Mbps, 2440MHz**

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2439.780000	-5.401	8.0	PASS

Peak Power Spectral Density



— Limit      — Sum Level      ◆ PSD

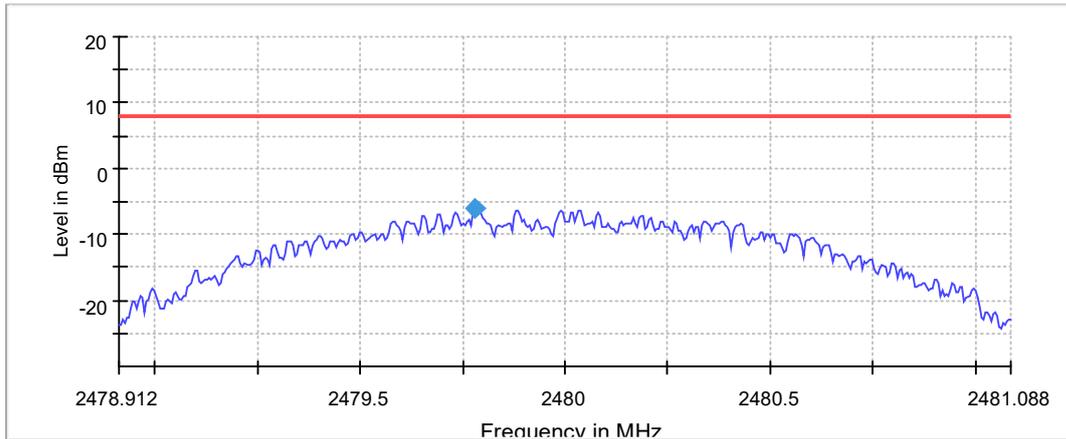
**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.43891 GHz	2.43891 GHz
Stop Frequency	2.44109 GHz	2.44109 GHz
Span	2.175 MHz	2.175 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	435	~ 435
Sweeptime	2.180 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	3 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.10 dB	0.50 dB

**Power Spectral Density, 2Mbps, 2480MHz**

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2479.780000	-6.081	8.0	PASS

Peak Power Spectral Density



— Limit      — Sum Level      ◆ PSD

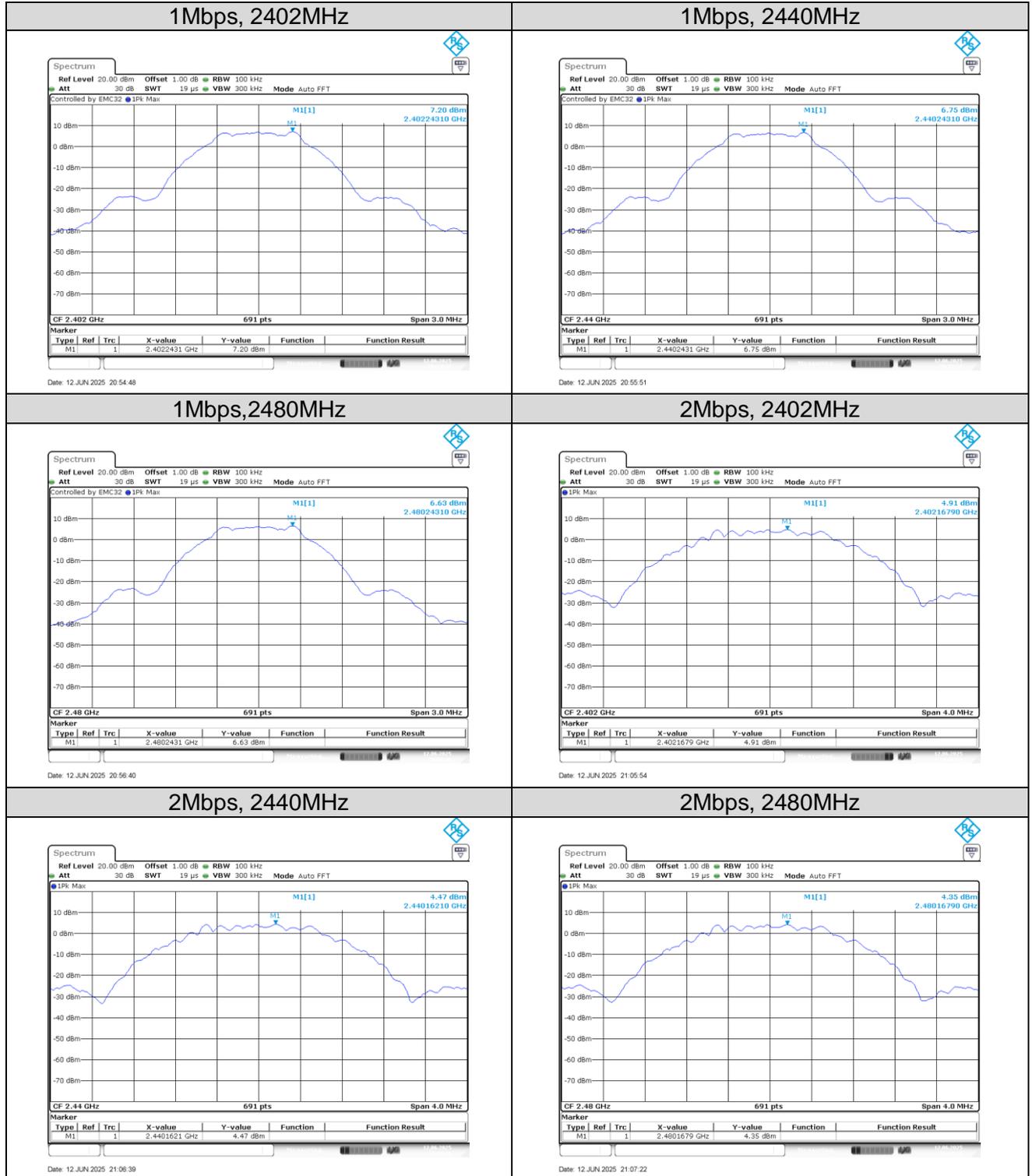
**Measurement**

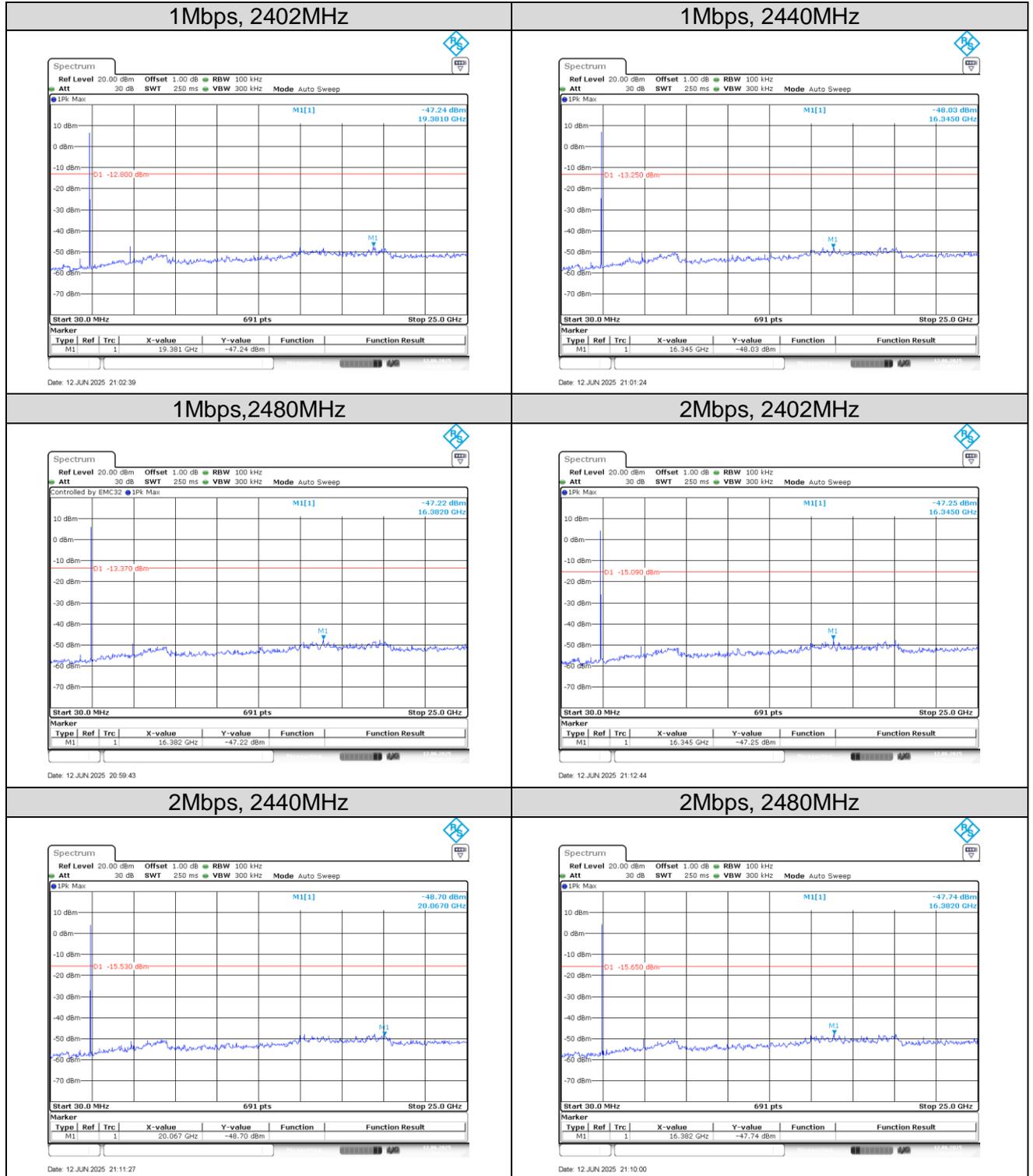
Setting	Instrument Value	Target Value
Start Frequency	2.47891 GHz	2.47891 GHz
Stop Frequency	2.48109 GHz	2.48109 GHz
Span	2.175 MHz	2.175 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	435	~ 435
Sweeptime	2.180 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	3 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.10 dB	0.50 dB

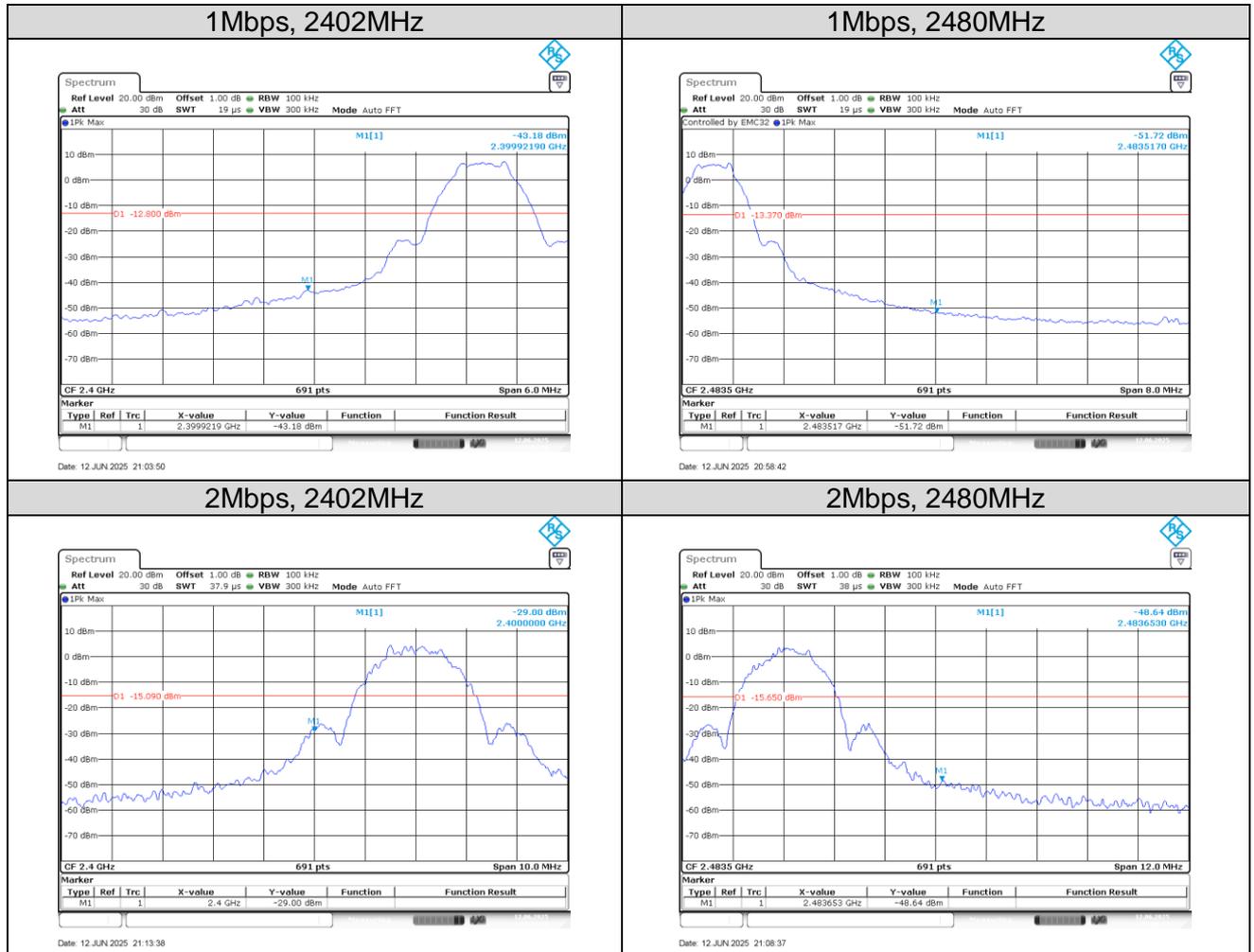
### 5.1.5 Conducted Band Edge and out-of Band Emissions

**RESULT:****Pass**

Date of testing : 2025-06-12  
Ambient temperature : 23.8°C  
Relative humidity : 56.7%  
Atmospheric pressure : 101kPa  
Test requirement : FCC Part 15.247(d)  
RSS-247 Issue 3, August 2023, Clause 5.5  
Test procedure : ANSI C63.10: 2013  
Test voltage : DC 3.3V  
Test modes applied : A

**Figure 1: Reference level**


**Figure 2: Conducted Spurious Emission**


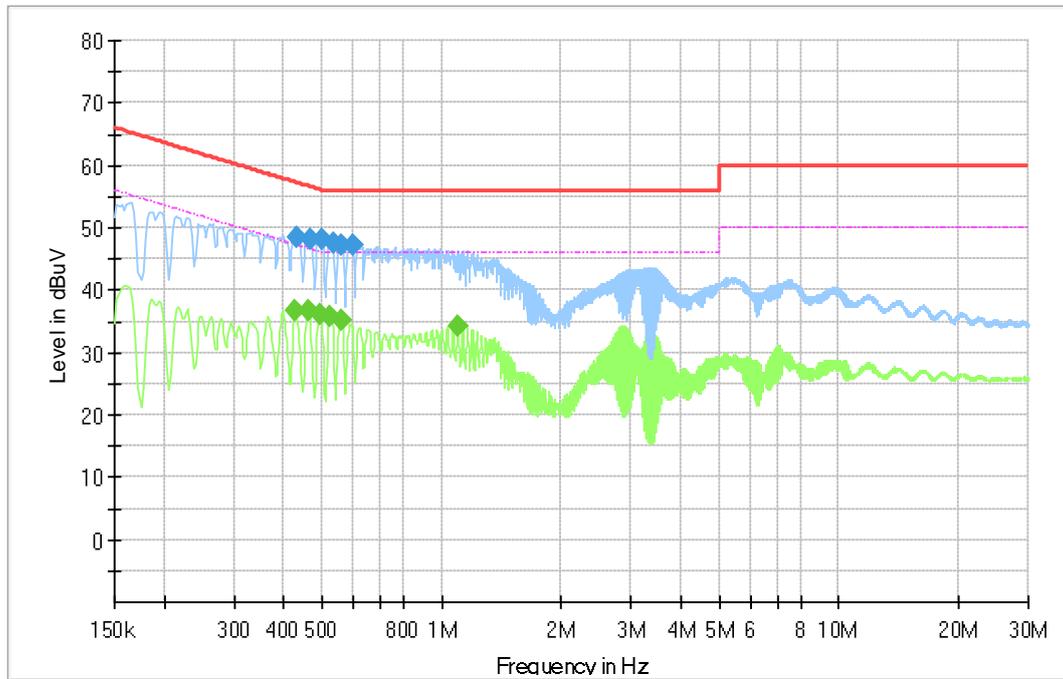
**Figure 3: Conducted Band Edge**


## 5.2 Emission in the Frequency Range up to 30MHz

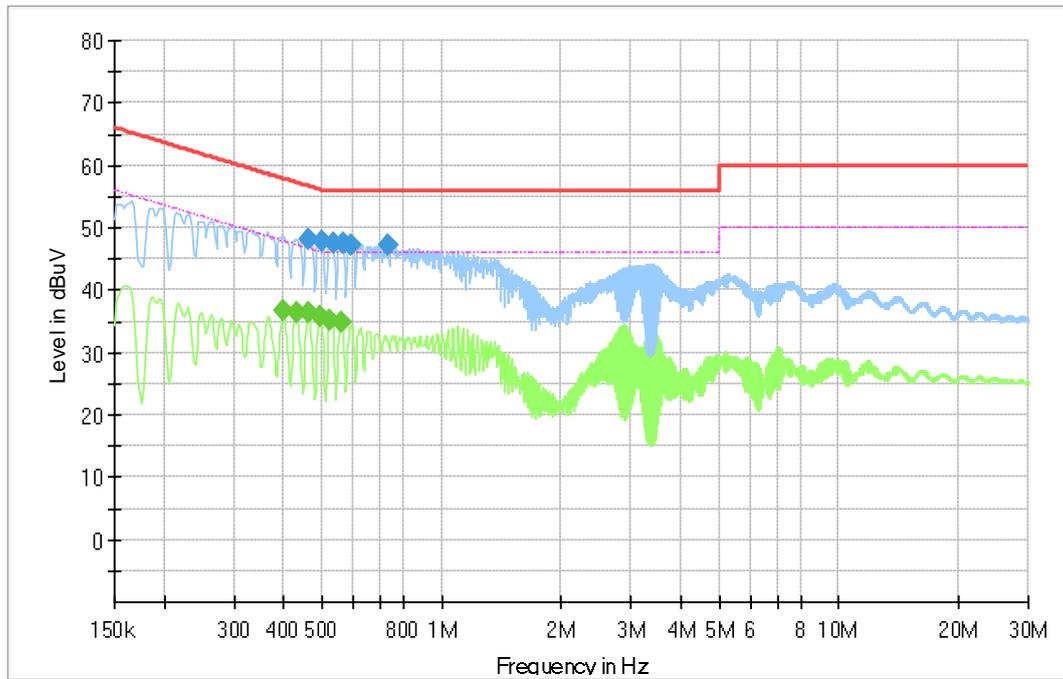
### 5.2.1 Conducted Emission

**RESULT:****Pass**

Date of testing : 2025-03-20  
Ambient temperature : 18.1°C  
Relative humidity : 52.1%  
Atmospheric pressure : 101kPa  
Test requirement : FCC Part 15.207 (a)  
RSS-Gen Issue 5, Amendment 2, February 2021, Clause  
8.8  
Test procedure : KDB 558074 D01v05r02  
ANSI C63.10: 2013  
Test voltage : AC 120V, 60Hz  
Test modes applied : B

**Figure 4: Conducted Emission, L**

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.429000	---	36.70	47.27	10.57	L1	10.3
0.431250	48.40	---	57.23	8.83	L1	10.3
0.460500	---	36.62	46.68	10.06	L1	10.3
0.465000	48.09	---	56.60	8.52	L1	10.3
0.494250	---	36.01	46.10	10.08	L1	10.3
0.498750	48.06	---	56.02	7.97	L1	10.3
0.523500	---	35.65	46.00	10.35	L1	10.3
0.532500	47.61	---	56.00	8.39	L1	10.3
0.559500	47.25	---	56.00	8.75	L1	10.3
0.559500	---	35.01	46.00	10.99	L1	10.3
0.597750	47.32	---	56.00	8.68	L1	10.3
1.097250	---	34.31	46.00	11.69	L1	10.6

**Figure 5: Conducted Emission, N**

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.397500	---	36.66	47.91	11.25	N	10.3
0.431250	---	36.47	47.23	10.76	N	10.3
0.462750	---	36.40	46.64	10.24	N	10.3
0.462750	48.12	---	56.64	8.52	N	10.3
0.494250	---	35.69	46.10	10.40	N	10.2
0.498750	47.83	---	56.02	8.19	N	10.2
0.523500	---	35.22	46.00	10.78	N	10.2
0.532500	47.61	---	56.00	8.39	N	10.2
0.561750	---	34.77	46.00	11.23	N	10.3
0.566250	47.62	---	56.00	8.38	N	10.3
0.593250	47.26	---	56.00	8.74	N	10.3
0.732750	47.17	---	56.00	8.83	N	10.4

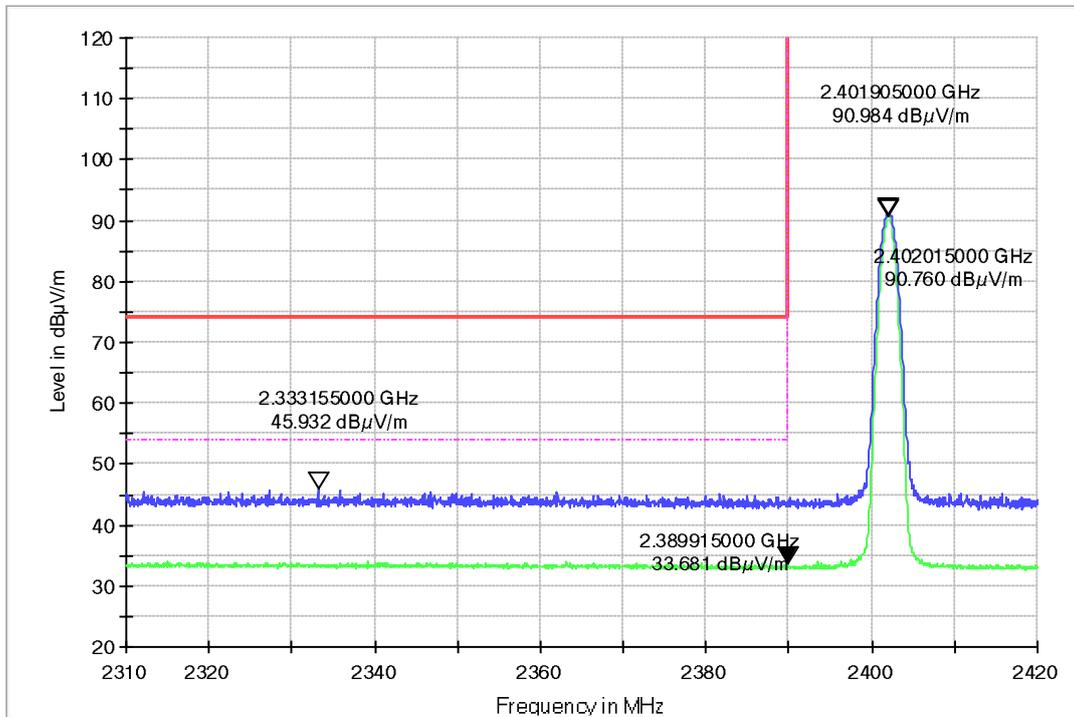
## 5.3 Emission in the Frequency Range above 30MHz

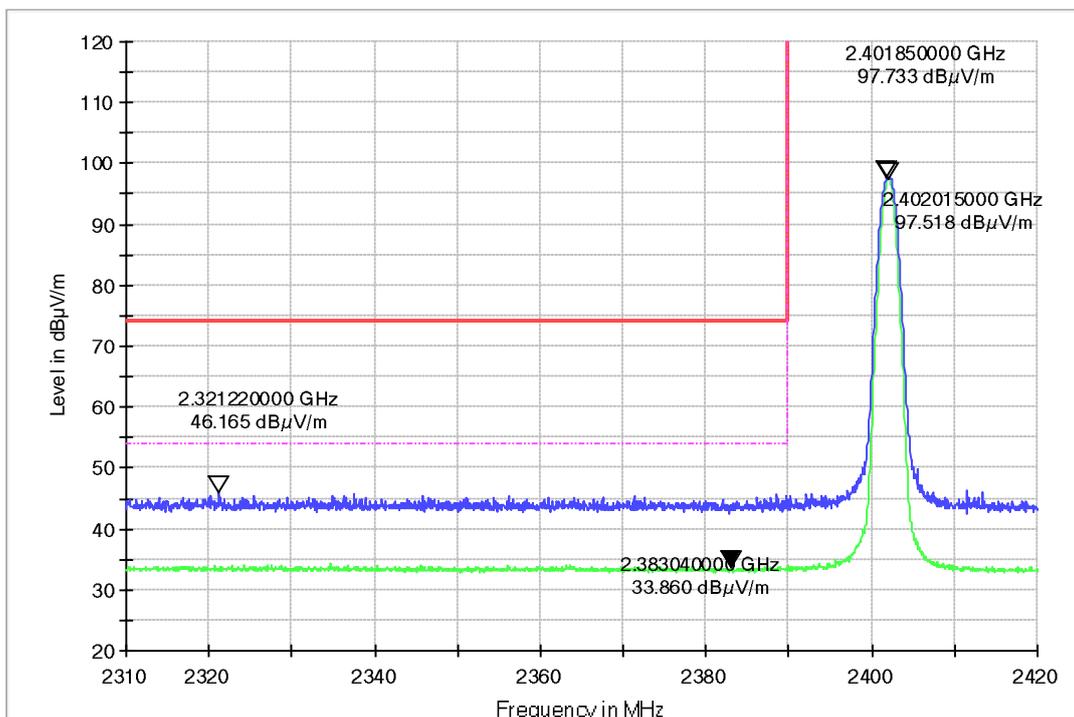
### 5.3.1 Radiated Band-Edge

**RESULT:****Pass**

Date of testing	:	2025-05-25
Ambient temperature	:	21.2°C
Relative humidity	:	50.7%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) FCC Part 15.205(a) FCC Part 15.209(a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9 RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.10 RSS-247 Issue 3, August 2023, Clause 5.5
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	DC 3.3V
Test modes applied	:	A

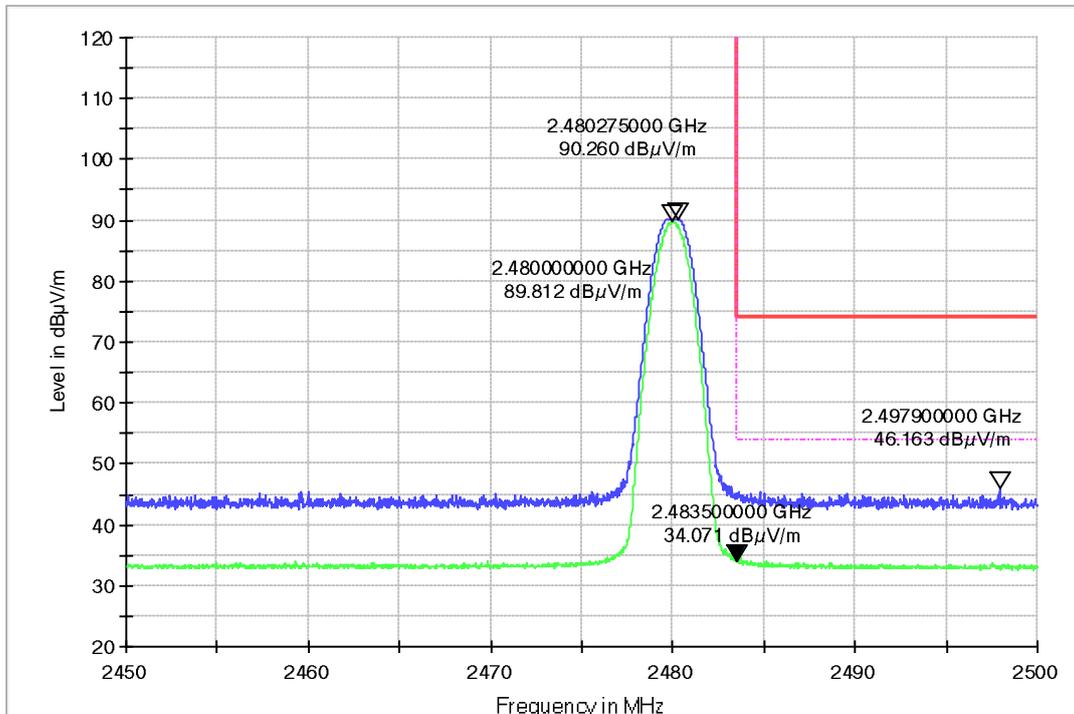
**Figure 6: Radiated Band-Edge, 1Mbps, 2402MHz, H**

 XXY-2310<sup>+</sup> 2410 BE 1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG

**Figure 7: Radiated Band-Edge, 1Mbps, 2402MHz, V**

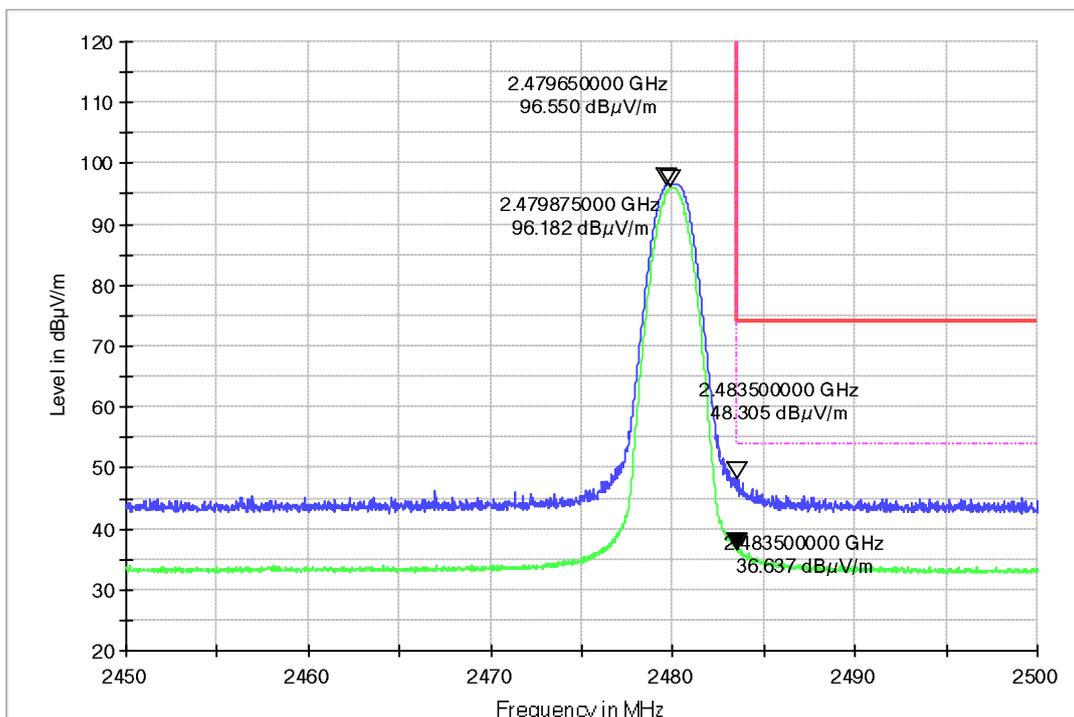
 XXY-2310<sup>+</sup> 2410 BE 1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG


**Figure 8: Radiated Band-Edge, 1Mbps, 2480MHz, H**

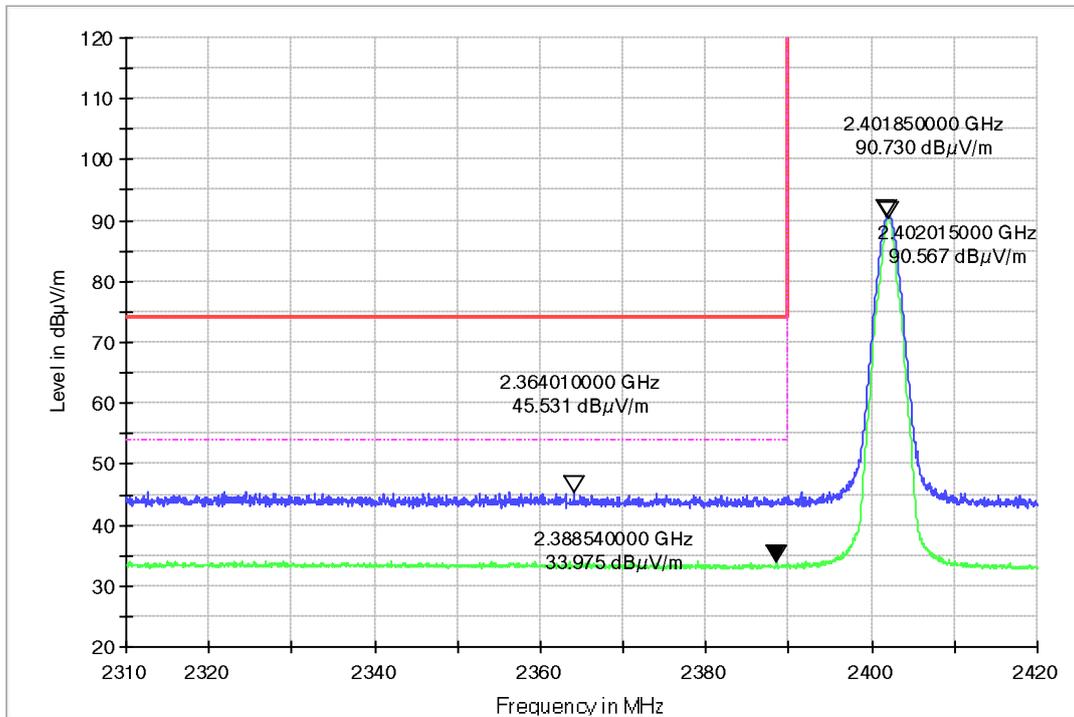
XXY-2470 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG

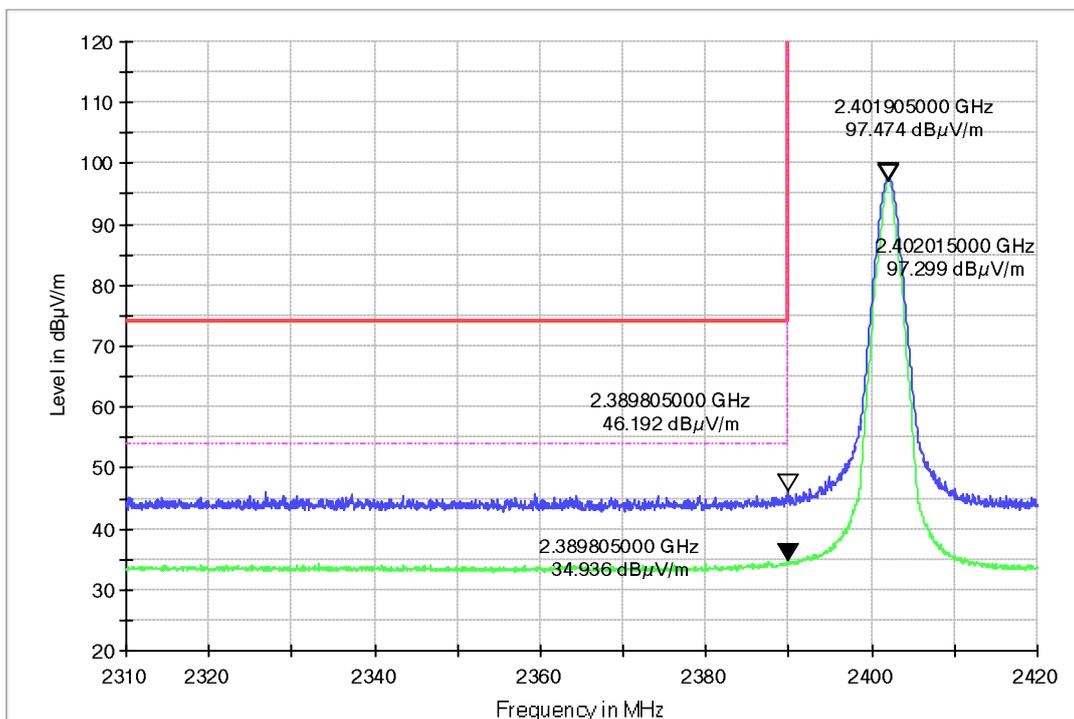

**Figure 9: Radiated Band-Edge, 1Mbps, 2480MHz, V**

XXY-2470 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG

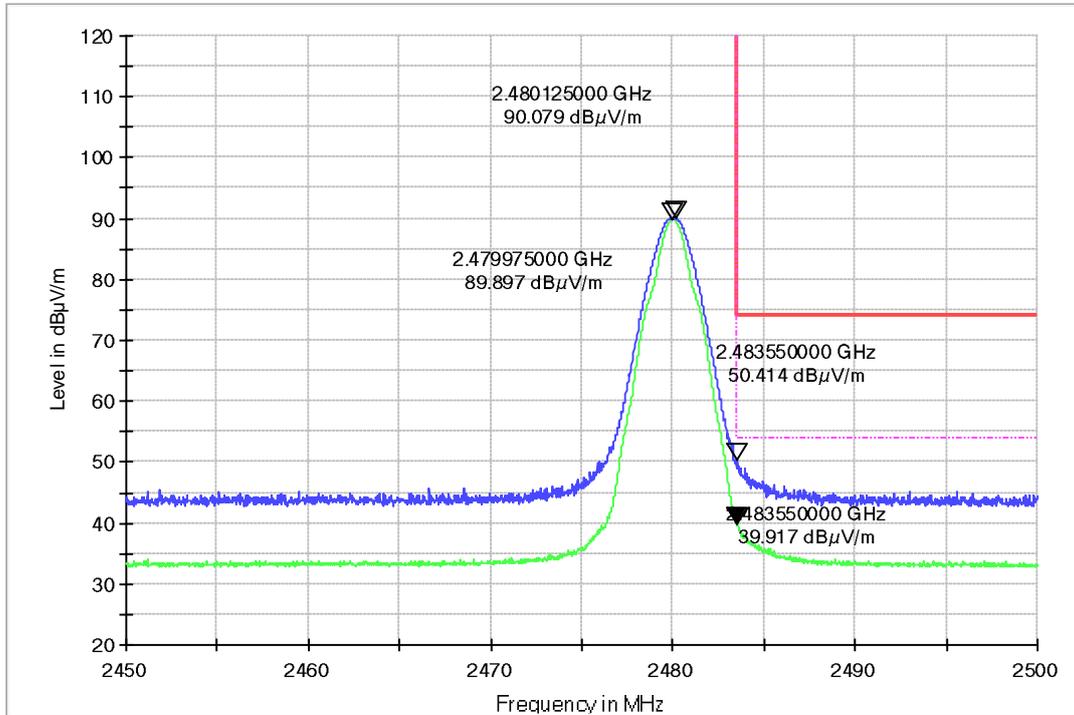


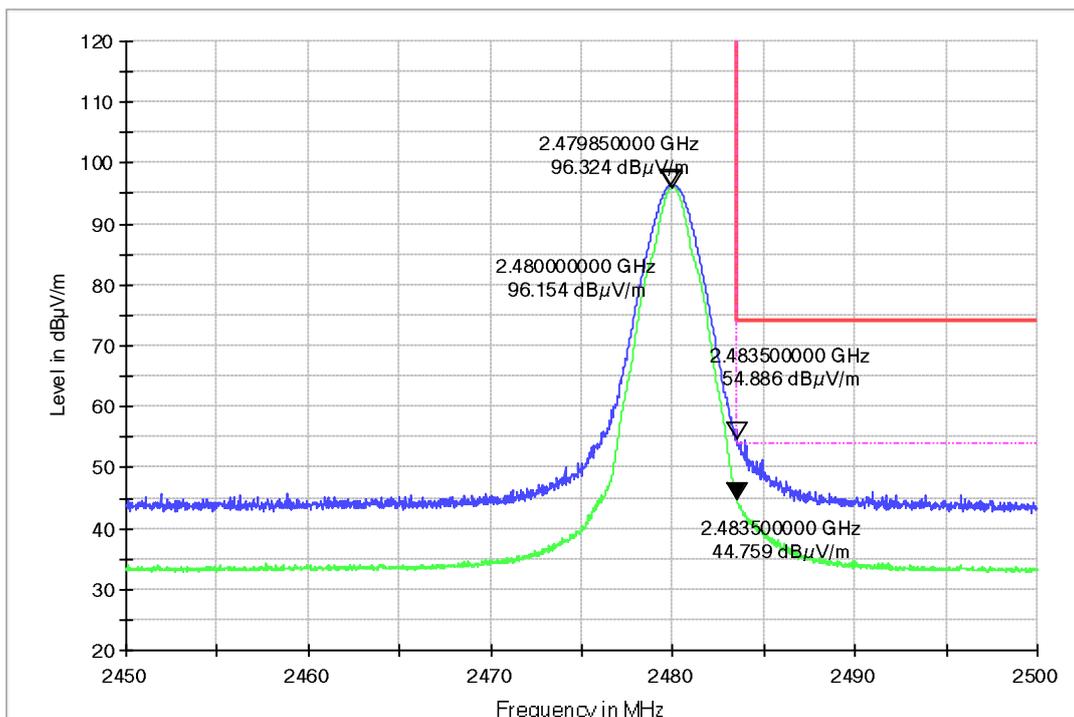
**Figure 10: Radiated Band-Edge, 2Mbps, 2402MHz, H**

 XXY-2310<sup>+</sup> 2410 BE 1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG

**Figure 11: Radiated Band-Edge, 2Mbps, 2402MHz, V**

 XXY-2310<sup>+</sup> 2410 BE 1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG


**Figure 12: Radiated Band-Edge, 2Mbps, 2480MHz, H**

 XXY-2470<sup>°</sup> 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG

**Figure 13: Radiated Band-Edge, 2Mbps, 2480MHz, V**

 XXY-2470<sup>°</sup> 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG


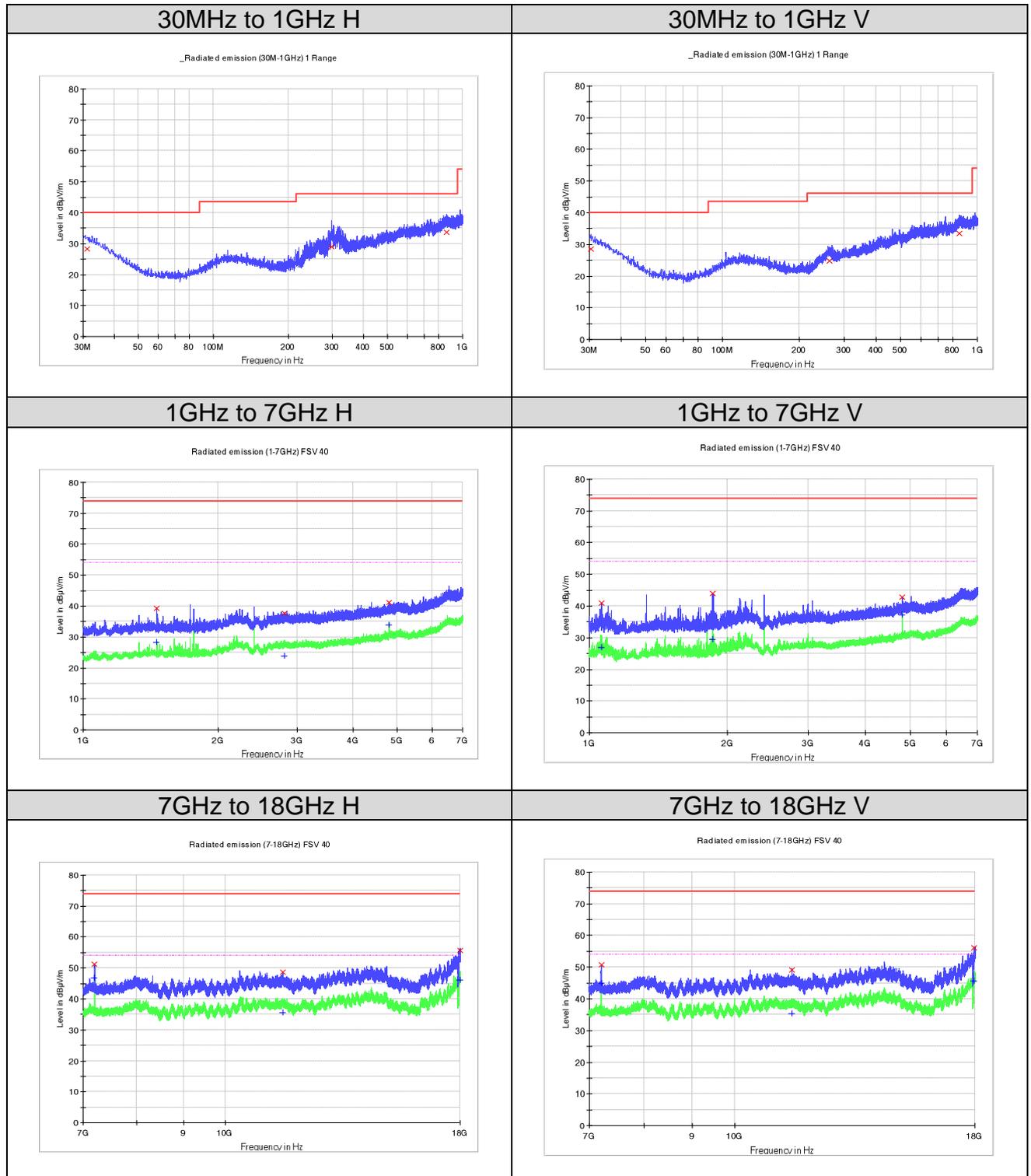
### 5.3.2 Radiated Spurious Emission

**RESULT:****Pass**

Date of testing	:	2025-05-25~2025-06-02
Ambient temperature	:	20.2°C~21.4°C
Relative humidity	:	50.2%~51.6%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) FCC Part 15.209(a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9 RSS-247 Issue 3, August 2023, Clause 5.5
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	DC 3.3V
Test modes applied	:	A

## Note:

1. Only the worst case is shown on the report.
2. For the frequency range from 18GHz to 25GHz, no emission was found.

**Figure 14: Radiated Spurious Emission, 2Mbps, 2402MHz**


**Limit and Margin**  
**QP**

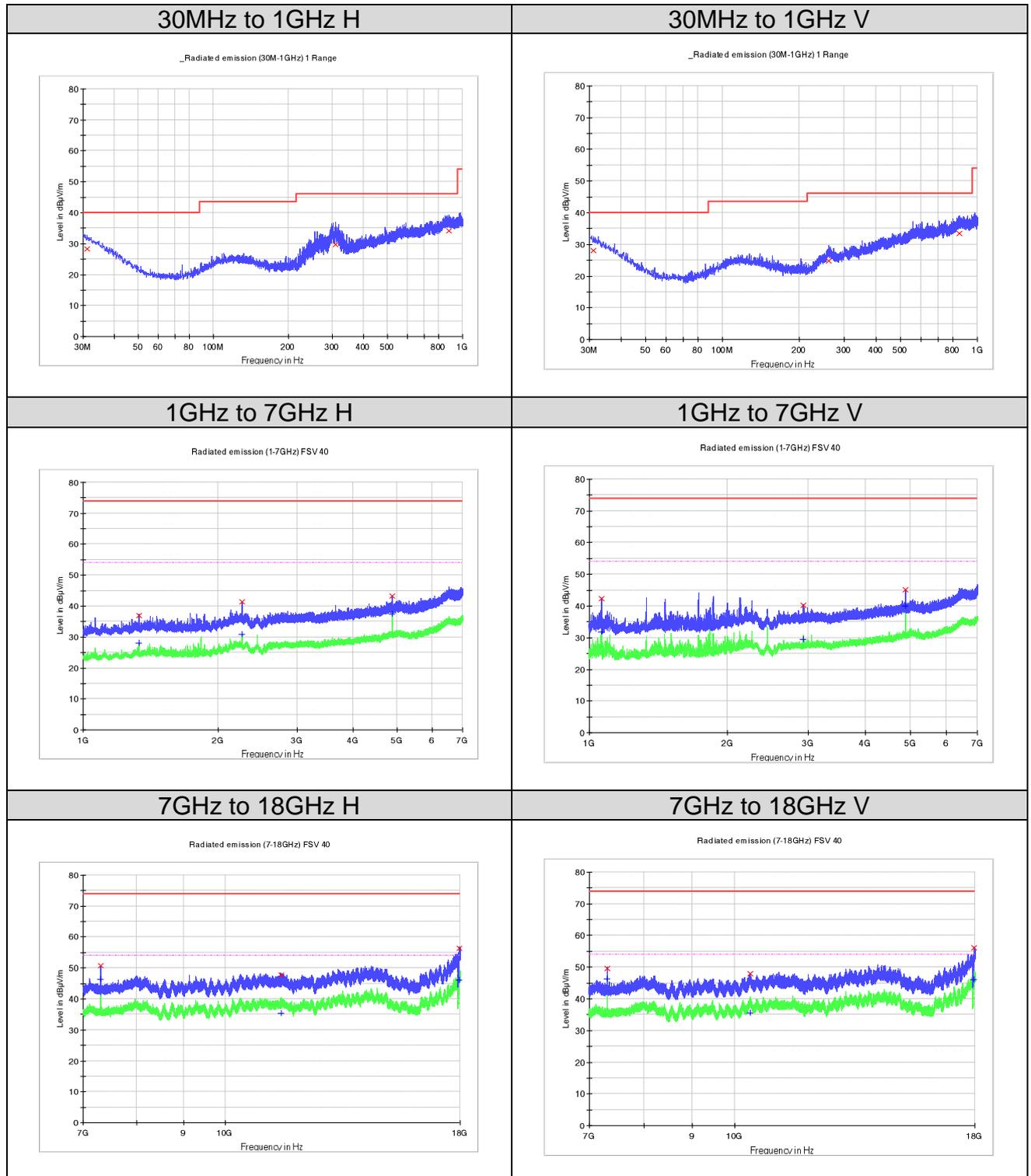
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.091250	28.2	H	24.8	11.8	40.0
298.811250	29.1	H	20.7	16.9	46.0
860.320000	33.8	H	29.1	12.2	46.0
30.363750	28.6	V	25.2	11.4	40.0
262.315000	24.8	V	21.6	21.2	46.0
848.195000	33.5	V	29.0	12.5	46.0

**PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1459.545455	39.4	H	-18.6	34.6	74.0
2805.454546	37.6	H	-15.1	36.4	74.0
4804.000000	41.2	H	-11.2	32.8	74.0
7205.218750	51.3	H	-5.9	22.7	74.0
11548.500000	48.7	H	-1.6	25.3	74.0
17982.812500	55.7	H	11.8	18.3	74.0
1062.181818	41.0	V	-20.0	33.0	74.0
1859.909091	43.9	V	-18.5	30.1	74.0
4804.545455	42.8	V	-11.2	31.2	74.0
7206.250000	50.7	V	-5.9	23.3	74.0
11506.218750	49.1	V	-1.4	24.9	74.0
17966.312500	56.1	V	11.5	17.9	74.0

**AV**

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1459.545455	28.3	H	-18.6	25.7	54.0
2805.454546	23.8	H	-15.1	30.2	54.0
4804.000000	34.0	H	-11.2	20.0	54.0
7205.218750	46.7	H	-5.9	7.3	54.0
11548.500000	35.6	H	-1.6	18.4	54.0
17982.812500	46.0	H	11.8	8.0	54.0
1062.181818	26.8	V	-20.0	27.2	54.0
1859.909091	29.4	V	-18.5	24.6	54.0
4804.545455	37.3	V	-11.2	16.7	54.0
7206.250000	44.8	V	-5.9	9.2	54.0
11506.218750	35.4	V	-1.4	18.6	54.0
17966.312500	45.5	V	11.5	8.5	54.0

**Figure 15: Radiated Spurious Emission, 2Mbps, 2440MHz**


**Limit and Margin**  
**QP**

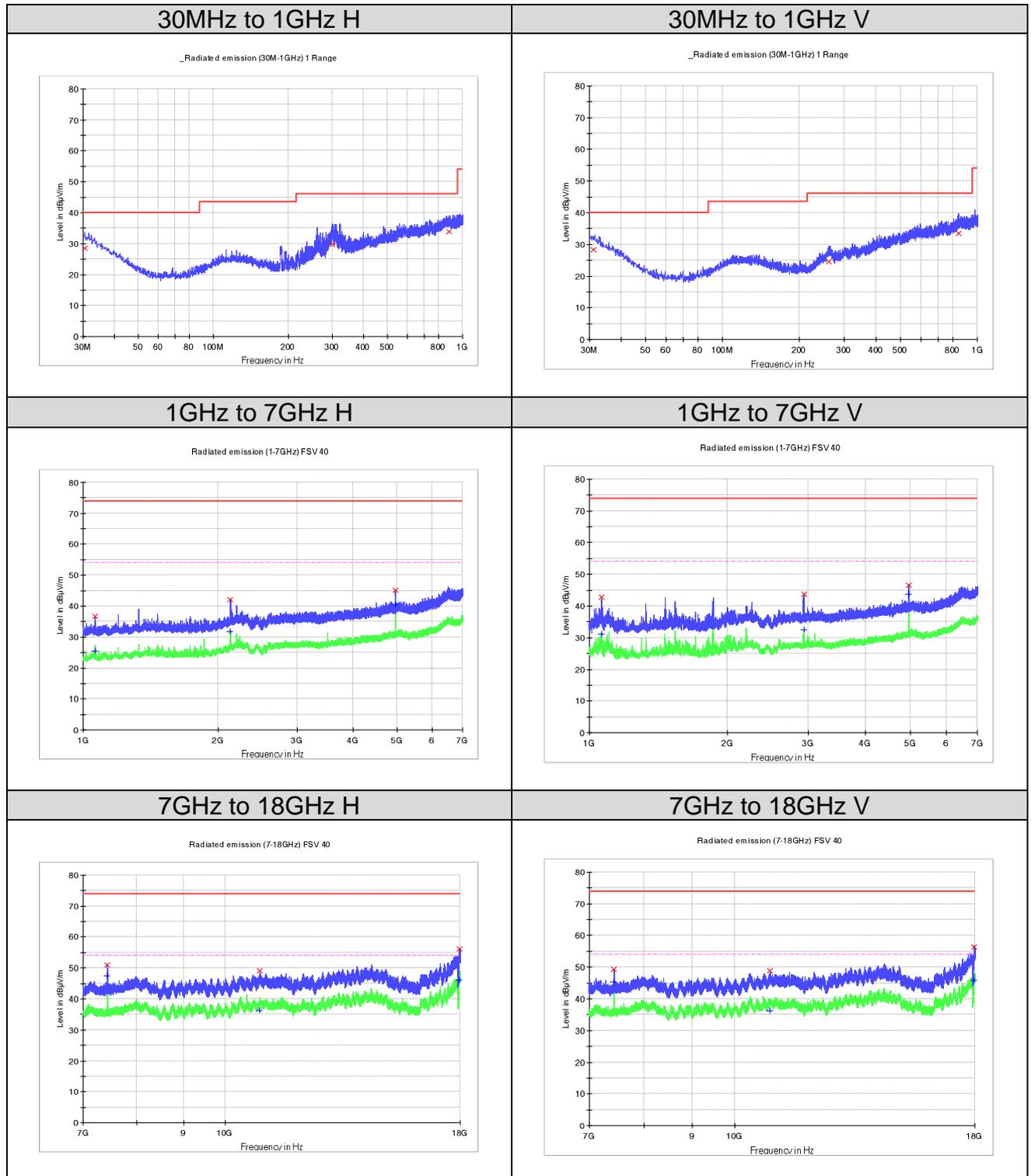
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.091250	28.3	H	24.8	11.7	40.0
309.602500	29.6	H	20.2	16.4	46.0
884.570000	34.1	H	29.4	11.9	46.0
31.212500	28.2	V	24.8	11.8	40.0
260.981250	24.8	V	21.6	21.2	46.0
849.165000	33.5	V	29.0	12.5	46.0

**PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1333.272727	37.0	H	-18.7	37.0	74.0
2263.545455	41.3	H	-15.6	32.7	74.0
4879.818182	43.3	H	-11.1	30.7	74.0
7319.343750	50.7	H	-6.3	23.3	74.0
11500.718750	47.6	H	-1.4	26.4	74.0
17971.812500	56.3	H	11.6	17.7	74.0
1061.636364	42.2	V	-20.0	31.8	74.0
2929.272727	40.2	V	-15.1	33.8	74.0
4880.363636	45.1	V	-11.1	28.9	74.0
7320.031250	49.7	V	-6.3	24.3	74.0
10391.437500	48.0	V	-2.1	26.0	74.0
17974.218750	56.2	V	11.7	17.8	74.0

**AV**

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1333.272727	28.0	H	-18.7	26.0	54.0
2263.545455	30.9	H	-15.6	23.1	54.0
4879.818182	37.4	H	-11.1	16.6	54.0
7319.343750	46.3	H	-6.3	7.7	54.0
11500.718750	35.3	H	-1.4	18.7	54.0
17971.812500	46.0	H	11.6	8.0	54.0
1061.636364	31.7	V	-20.0	22.3	54.0
2929.272727	29.5	V	-15.1	24.5	54.0
4880.363636	39.9	V	-11.1	14.1	54.0
7320.031250	46.2	V	-6.3	7.8	54.0
10391.437500	35.6	V	-2.1	18.4	54.0
17974.218750	46.2	V	11.7	7.8	54.0

**Figure 16: Radiated Spurious Emission, 2Mbps, 2480MHz**


**Limit and Margin**  
**QP**

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.363750	28.6	H	25.2	11.4	40.0
299.175000	29.8	H	20.7	16.2	46.0
882.145000	34.0	H	29.1	12.0	46.0
31.212500	28.2	V	24.8	11.8	40.0
260.375000	24.7	V	21.5	21.3	46.0
844.921250	33.5	V	29.0	12.5	46.0

**PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1061.363636	36.7	H	-20.0	37.3	74.0
2126.909091	42.2	H	-16.5	31.8	74.0
4960.272727	45.1	H	-11.0	28.9	74.0
7439.312500	50.9	H	-5.8	23.1	74.0
10898.125000	49.2	H	-1.5	24.8	74.0
17979.718750	56.1	H	11.8	17.9	74.0
1063.545455	42.9	V	-20.0	31.1	74.0
2932.272727	43.8	V	-15.1	30.2	74.0
4960.000000	46.6	V	-11.0	27.4	74.0
7439.312500	49.3	V	-5.8	24.7	74.0
10891.593750	48.8	V	-1.6	25.2	74.0
17970.781250	56.3	V	11.6	17.7	74.0

**AV**

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1061.363636	25.4	H	-20.0	28.6	54.0
2126.909091	31.7	H	-16.5	22.3	54.0
4960.272727	40.5	H	-11.0	13.5	54.0
7439.312500	47.6	H	-5.8	6.4	54.0
10898.125000	36.2	H	-1.5	17.8	54.0
17979.718750	46.1	H	11.8	7.9	54.0
1063.545455	31.2	V	-20.0	22.8	54.0
2932.272727	32.5	V	-15.1	21.5	54.0
4960.000000	43.8	V	-11.0	10.2	54.0
7439.312500	45.3	V	-5.8	8.7	54.0
10891.593750	36.2	V	-1.6	17.8	54.0
17970.781250	46.0	V	11.6	8.0	54.0

## 6. List of Tables

Table 1: List of Test and Measurement Equipment .....	7
Table 2: Measurement Uncertainty .....	8
Table 3: Technical Specification of EUT .....	9
Table 4: Operation Channel List .....	10
Table 5: Power parameter value.....	11
Table 6: Auxiliary Equipment.....	11
Table 7: Antenna Requirement.....	12
Table 8: Peak Output Power .....	27

## 7. List of Figures

Figure 1: Reference level .....	36
Figure 2: Conducted Spurious Emission .....	37
Figure 3: Conducted Band Edge .....	38
Figure 4: Conducted Emission, L.....	40
Figure 5: Conducted Emission, N .....	41
Figure 6: Radiated Band-Edge, 1Mbps, 2402MHz, H.....	43
Figure 7: Radiated Band-Edge, 1Mbps, 2402MHz, V.....	43
Figure 8: Radiated Band-Edge, 1Mbps, 2480MHz, H.....	44
Figure 9: Radiated Band-Edge, 1Mbps, 2480MHz, V.....	44
Figure 10: Radiated Band-Edge, 2Mbps, 2402MHz, H.....	45
Figure 11: Radiated Band-Edge, 2Mbps, 2402MHz, V.....	45
Figure 12: Radiated Band-Edge, 2Mbps, 2480MHz, H.....	46
Figure 13: Radiated Band-Edge, 2Mbps, 2480MHz, V.....	46
Figure 14: Radiated Spurious Emission, 2Mbps, 2402MHz.....	48
Figure 15: Radiated Spurious Emission, 2Mbps, 2440MHz.....	50
Figure 16: Radiated Spurious Emission, 2Mbps, 2480MHz.....	52